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Laboratory Code: 11148

SDG Number: L2433035

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Pesticides L4 (3.0ug/L) Injected on: 02/22/24 13:43 3637
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Pesticides L7 (10.0ug/L) Injected on: 02/22/24 14:06 3699
Pesticides L8 (50.0ug/L) Injected on: 02/22/24 14:17 3733
Pesticides L9 (100ug/L) Injected on: 02/22/24 14:28 3766
Pesticides L10 (200ug/L) Injected on: 02/22/24 14:40 3807
Pesticides L11 (400ug/L) Injected on: 02/22/24 14:51 3852
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Chlordane L5 (100ug/L) Injected on: 02/29/24 16:51 3963
Chlordane L7 (500ug/L) Injected on: 02/29/24 17:03 3969
Chlordane L8 (1000ug/L) Injected on: 02/29/24 17:14 3975
Chlordane L9 (2000ug/L) Injected on: 02/29/24 17:25 3979
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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2433035
Report Date: 06/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2433035-01	MW-8S	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 13:55	06/12/24
L2433035-02	MW-8D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 13:56	06/12/24
L2433035-03	MW-1SR	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 08:30	06/12/24
L2433035-04	MW-1DR2	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 08:34	06/12/24
L2433035-05	MP-1	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 10:30	06/12/24
L2433035-06	MP-1D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 10:50	06/12/24
L2433035-07	PZ-6	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 12:25	06/12/24
L2433035-08	MW-6D	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 12:38	06/12/24
L2433035-09	EB_06122024	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 09:40	06/12/24
L2433035-10	DUP_06122024	WATER	416 MILLER PLACE-YAPHANK ROAD	06/12/24 12:00	06/12/24
L2433035-11	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	06/12/24 00:00	06/12/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission
June 28, 2024: This final report includes the results of all requested analyses.
June 20, 2024: This is a preliminary report.

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

The analyses of Sulfide, Iodide and Ammonium were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt
The analyses performed were specified by the client.
L2433035-01: Headspace was noted in the sample containers submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

1,4-Dioxane by 8270-SIM
L2433035-08: The sample has elevated detection limits due to limited sample volume available for analysis.

Solids, Total Dissolved
The WG1935066-3 Laboratory Duplicate RPD for solids, total dissolved (82%), performed on L2433035-03, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
The WG1935066-4 Laboratory Duplicate RPD for solids, total dissolved (91%), performed on L2433035-04, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Anions by Ion Chromatography

Case Narrative (continued)

The WG1934814-3/-4 MS/MSD recoveries, performed on L2433035-03, are outside the acceptance criteria for bromide (81%); however, the associated LCS/LCSD recoveries were within criteria. No further action was taken.

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

Authorized Signature: Tiffani Morrissey Report Date: 07/01/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2433035

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 12-JUN-2024
Reviewer : Maile Kolton

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.4	
B	Absent/	Ice	5.7	
C	Absent/	Ice	3.5	
D	Absent/	Ice	5.1	
E	Absent/	Ice	3.5	
F	Absent/	Ice	5.6	
G	Absent/	Ice	3.6	
H	Absent/	Ice	4.8	
I	Absent/	Ice	3.5	
J	Absent/	Ice	5.1	
K	Absent/	Ice	3.5	
L	Absent/	Ice	5.0	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **YES**

L2433035-01D (HOLD-504/8011) was received in extra container.
L2433035-01E (HOLD-504/8011) was received in extra container.
L2433035-01Y (ARCHIVE) was received in extra container.
L2433035-01Z (ARCHIVE) was received in extra container.
L2433035-02D (HOLD-504/8011) was received in extra container.
L2433035-02E (HOLD-504/8011) was received in extra container.
L2433035-02Y (ARCHIVE) was received in extra container.
L2433035-02Z (ARCHIVE) was received in extra container.
L2433035-03D (HOLD-504/8011) was received in extra container.
L2433035-03D1 (HOLD-504/8011) was received in extra container.
L2433035-03D2 (HOLD-504/8011) was received in extra container.
L2433035-03E (HOLD-504/8011) was received in extra container.
L2433035-03E1 (HOLD-504/8011) was received in extra container.
L2433035-03E2 (HOLD-504/8011) was received in extra container.
L2433035-03Y (ARCHIVE) was received in extra container.

Sample Delivery Group Summary

Alpha Job Number : L2433035

Received : 12-JUN-2024
Reviewer : Maile Kolton

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

L2433035-03Y1 (ARCHIVE) was received in extra container.
L2433035-03Y2 (ARCHIVE) was received in extra container.
L2433035-03Z (ARCHIVE) was received in extra container.
L2433035-03Z1 (ARCHIVE) was received in extra container.
L2433035-03Z2 (ARCHIVE) was received in extra container.
L2433035-04D (HOLD-504/8011) was received in extra container.
L2433035-04E (HOLD-504/8011) was received in extra container.
L2433035-04Y (ARCHIVE) was received in extra container.
L2433035-04Z (ARCHIVE) was received in extra container.
L2433035-05D (HOLD-504/8011) was received in extra container.
L2433035-05E (HOLD-504/8011) was received in extra container.
L2433035-05Y (ARCHIVE) was received in extra container.
L2433035-05Z (ARCHIVE) was received in extra container.
L2433035-06D (HOLD-504/8011) was received in extra container.
L2433035-06E (HOLD-504/8011) was received in extra container.
L2433035-06Y (ARCHIVE) was received in extra container.
L2433035-06Z (ARCHIVE) was received in extra container.
L2433035-07D (HOLD-504/8011) was received in extra container.
L2433035-07E (HOLD-504/8011) was received in extra container.
L2433035-07Y (ARCHIVE) was received in extra container.
L2433035-07Z (ARCHIVE) was received in extra container.
L2433035-08D (HOLD-504/8011) was received in extra container.
L2433035-08E (HOLD-504/8011) was received in extra container.
L2433035-08Y (ARCHIVE) was received in extra container.
L2433035-08Z (ARCHIVE) was received in extra container.
L2433035-09D (HOLD-504/8011) was received in extra container.
L2433035-09E (HOLD-504/8011) was received in extra container.
L2433035-09Y (ARCHIVE) was received in extra container.
L2433035-09Z (ARCHIVE) was received in extra container.
L2433035-10D (HOLD-504/8011) was received in extra container.
L2433035-10E (HOLD-504/8011) was received in extra container.
L2433035-10Y (ARCHIVE) was received in extra container.
L2433035-10Z (ARCHIVE) was received in extra container.

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **NO**
Following containers were received with headspace: -01M, -01N

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

Sample Delivery Group Summary

Alpha Job Number : L2433035

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 12-JUN-2024
Reviewer : Maile Kolton

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected
L2433035-01	MW-8S		1 S0	12JUN24 13:55

1ZE306540193267363 144.31 USD Galbraith, TN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built ASP-B Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011, NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-LEVEL5,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI, CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI, TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500, TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2433035-02	MW-8D		1 S0	12JUN24 13:56

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-03	MW-1SR	1	S0	12JUN24 08:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built L2433035-03 MS L2433035-03 MSD Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,MS/MSD,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected
L2433035-04	MW-1DR2	S0	1	12JUN24 08:34

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,MS/MSD, NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI, CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-05	MP-1	S0	1	12JUN24 10:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built Package Due Date: 07/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-06	MP-1D		1 S0	12JUN24 10:50

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built NPDES Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-07	PZ-6		1 S0	12JUN24 12:25

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built NPDES Package Due Date: 07/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-08	MW-6D		1 S0	12JUN24 12:38

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built NPDES Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected
L2433035-09	EB_06122024	S0	1	12JUN24 09:40

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built NPDES Package Due Date: 07/05/24

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2433035-10	DUP_06122024	S0	1	12JUN24 12:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde; Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built NPDES Package Due Date: 07/05/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 03 2024, 02:26 pm

Login Number: L2433035

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 12JUN24 Due Date: 05JUL24

Sample #	Client ID	Mat	PR	Collected

A2-1,4-DIOXANE-SIM,ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,HOLD-504/8011,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2433035-11	TRIP BLANK	1	S0	12JUN24 00:00

NPDES Package Due Date: 07/05/24

HOLD-504/8011,NYTCL-8260

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab: 6/13/24

ALPHA Job #: L2433035

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

Standard
Due Date:
Rush (only if pre approved)
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

- ASP-A
- ASP-B
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement

- NY TOGS
- NY Part 375
- AWQ Standards
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information

- Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ NY
Other:

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-LVI	TAL600/TAL-2007S	Br-300	Cl-4500	No3/No2-4500-PPB	TOTALNITROGEN	TDS-2540	Sample Specific Comments	Total Bottles
33035-01	MW-8S	6/12/24	1355	AQ	PP	X	X	X	X	X	X	X	X		26
02	MW-8D	6/12/24	1350	AQ	JM	X	X	X	X	X	X	X	X		26
03	MW-1SR	6/12/24	0830	AQ	PP	X	X	X	X	X	X	X	X		26
04	MW-2DR2	6/12/24	0834	AQ	JM	X	X	X	X	X	X	X	X	MS/MSD	26
05	MP-1	6/12/24	1030	AQ	PP	X	X	X	X	X	X	X	X		26
06	MP-1D	6/12/24	1050	AQ	JM	X	X	X	X	X	X	X	X		26
07	PZ-6	6/12/24	1225	AQ	PP	X	X	X	X	X	X	X	X		26
08	MW-6D	6/12/24	1238	AQ	JM	X	X	X	X	X	X	X	X		26
09	EB-06122024	6/12/24	0940	AQ	JM	X	X	X	X	X	X	X	X		26
10	DUP-06122024	6/12/24	1200	AQ	JM	X	X	X	X	X	X	X	X		26
	Container Type					V	A	P	P	P	A	A	P		
	Preservative					B	A	C	A	A	D	D	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/24 @ 1440	Pace	6/13/24 1440
Pace	6/14/24 2005	Anthony Green	JUN 12 2024 2115
Anthony Green		Pace	6/13/24 0200
Pace	6/13/24 0400		6/13/24 0410

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 6/13/24

ALPHA Job #: L2433035

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

Standard
Due Date:
Rush (only if pre approved)
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

- [ ] ASP-A
- [x] ASP-B
- [ ] EQuIS (1 File)
- [ ] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [ ] NY TOGS
- [ ] NY Part 375
- [ ] AWQ Standards
- [ ] NY CP-51
- [ ] NY Restricted Use
- [ ] Other
- [ ] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [ ] Same as Client Info

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
NJ [ ] NY
Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500/F-4500	TPO4-4500	Alk-Co3-2320/Alk-HC03-23	SUB-SULFIDE	SUB-IODIDE	SUB-Ammonium	TCL PCBs-8082A (LVI)	TCL Pesticides/Herb	Sample Specific Comments	Total Bottles
33035-01	MW-8S	6/12/24	1355	AQ	PP	x	x	x	x	x	x	x	x		26
02	MW-8D	6/12/24	1356	AQ	JM	x	x	x	x	x	x	x	x		26
03	MW-1SR	6/12/24	0830	AQ	PP	x	x	x	x	x	x	x	x	MS/MSD	78
04	MW-1DR2	6/12/24	0834	AQ	JM	x	x	x	x	x	x	x	x		26
05	MP-1	6/12/24	1030	AQ	PP	x	x	x	x	x	x	x	x		26
06	MP-1D	6/12/24	1050	AQ	JM	x	x	x	x	x	x	x	x		26
07	PZ-6	6/12/24	1225	AQ	PP	x	x	x	x	x	x	x	x		26
08	MW-6D	6/12/24	1238	AQ	JM	x	x	x	x	x	x	x	x		26
09	EB-06122024	6/12/24	0940	AQ	JM	x	x	x	x	x	x	x	x		26
10	DUP-06122024	6/12/24	1200	AQ	JM	x	x	x	x	x	x	x	x		26
	Container Type					P	A	P	P	P	P	A	A		
	Preservative					A	D	A	K	A	D	A	A		

Sample Filtration

- [x] Done
- [ ] Lab to do

Preservation

- [ ] Lab to do

(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/24 1440		6/12/24 1440
	6/13/24 205	Anthony Green	JUN 12 2024 2115
Anthony Green			6/13/24 0205
	6/13/24 0410		6/13/24 0410

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Page 1 of 3

Date Rec'd in Lab: 6/13/24

ALPHA Job #: L2433035

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Client: ROUX Env.Eng.&Geology, DPC
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Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: Coram Groundwater Event
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #)
Project Manager: Julia Michaels
ALPHAQuote #: 25147

Turn-Around Time

☑ Standard — Due Date:
☐ Rush (only if pre approved) — # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ ☐ NY ☐
Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-LVI	TAL600/TAL-2007S	Br-300	Cl-4500	No3/No2-4500-PPB	TOTALNITROGEN	TDS-2540	Sample Specific Comments	Total Bottles
33035-11	TRIP BLANK	6/11/24		AQ	LAB	X									2

Sample Filtration
☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type	V	A	P	P	P	A	A	P
Preservative	B	A	C	A	A	D	D	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Julia Michaels	6/12/24 1440	Pace	6/12/24 1440
Pace	6/13/24 0005	Anthony Green	JUN 12 2024 21:15
Anthony Green		Pace	6/13/24 0020
Pace	6/13/24 0410		6/13/24 0410

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Trip Blank (Aqueous)/Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-8S (L2433035-01)	120	97	109	115	0
MW-8D (L2433035-02)	118	97	109	117	0
MW-1SR (L2433035-03)	120	97	109	114	0
MW-1DR2 (L2433035-04)	119	97	108	116	0
MP-1 (L2433035-05)	120	96	107	115	0
MP-1D (L2433035-06)	121	98	108	119	0
PZ-6 (L2433035-07)	114	96	107	115	0
MW-6D (L2433035-08)	116	97	108	116	0
EB_06122024 (L2433035-09)	118	97	106	117	0
DUP_06122024 (L2433035-10)	116	98	108	117	0
TRIP BLANK (L2433035-11)	115	98	109	114	0
WG1935824-3LCS	108	101	104	99	0
WG1935824-4LCSD	113	100	106	103	0
WG1935824-5BLANK	114	98	108	110	0
MW-1SRMS	117	99	105	106	0
MW-1SRMSD	118	99	106	106	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935824-3 **Analysis Date** : 06/16/24 07:19	**File ID**	: V30240616A01
LCSD Sample ID	: WG1935824-4 **Analysis Date** : 06/16/24 07:41	**File ID**	: V30240616A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	11	110	10	10	100	10	70-130	20
1,1-Dichloroethane	10	12	120	10	11	110	9	70-130	20
Chloroform	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	10	12	120	10	11	110	9	63-132	20
1,2-Dichloropropane	10	11	110	10	10	100	10	70-130	20
Dibromochloromethane	10	9.4	94	10	9.2	92	2	63-130	20
1,1,2-Trichloroethane	10	10	100	10	9.7	97	3	70-130	20
Tetrachloroethene	10	11	110	10	9.6	96	14	70-130	20
Chlorobenzene	10	10	100	10	9.7	97	3	75-130	20
Trichlorofluoromethane	10	12	120	10	11	110	9	62-150	20
1,2-Dichloroethane	10	11	110	10	11	110	0	70-130	20
1,1,1-Trichloroethane	10	12	120	10	11	110	9	67-130	20
Bromodichloromethane	10	11	110	10	10	100	10	67-130	20
trans-1,3-Dichloropropene	10	11	110	10	10	100	10	70-130	20
cis-1,3-Dichloropropene	10	11	110	10	11	110	0	70-130	20
Bromoform	10	9.1	91	10	9.0	90	1	54-136	20
1,1,2,2-Tetrachloroethane	10	9.6	96	10	10	100	4	67-130	20
Benzene	10	11	110	10	11	110	0	70-130	20
Toluene	10	11	110	10	9.9	99	11	70-130	20
Ethylbenzene	10	11	110	10	10	100	10	70-130	20
Chloromethane	10	11	110	10	9.4	94	16	64-130	20
Bromomethane	10	8.7	87	10	8.2	82	6	39-139	20
Vinyl chloride	10	12	120	10	9.8	98	20	55-140	20
Chloroethane	10	11	110	10	8.7	87	23 Q	55-138	20
1,1-Dichloroethene	10	12	120	10	11	110	9	61-145	20
trans-1,2-Dichloroethene	10	11	110	10	11	110	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935824-3 **Analysis Date** : 06/16/24 07:19	**File ID**	: V30240616A01
LCSD Sample ID	: WG1935824-4 **Analysis Date** : 06/16/24 07:41	**File ID**	: V30240616A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	11	110	10	10	100	10	70-130	20
1,2-Dichlorobenzene	10	10	100	10	9.7	97	3	70-130	20
1,3-Dichlorobenzene	10	10	100	10	9.6	96	4	70-130	20
1,4-Dichlorobenzene	10	10	100	10	9.6	96	4	70-130	20
Methyl tert butyl ether	10	10	100	10	10	100	0	63-130	20
p/m-Xylene	20	22	110	20	20	100	10	70-130	20
o-Xylene	20	22	110	20	20	100	10	70-130	20
cis-1,2-Dichloroethene	10	11	110	10	10	100	10	70-130	20
Styrene	20	22	110	20	21	105	5	70-130	20
Dichlorodifluoromethane	10	12	120	10	9.1	91	27 Q	36-147	20
Acetone	10	11	110	10	13	130	17	58-148	20
Carbon disulfide	10	12	120	10	10	100	18	51-130	20
2-Butanone	10	9.8	98	10	11	110	12	63-138	20
4-Methyl-2-pentanone	10	8.9	89	10	10	100	12	59-130	20
2-Hexanone	10	8.9	89	10	11	110	21 Q	57-130	20
Bromochloromethane	10	10	100	10	10	100	0	70-130	20
1,2-Dibromoethane	10	9.6	96	10	9.6	96	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.4	84	10	10	100	17	41-144	20
Isopropylbenzene	10	11	110	10	10	100	10	70-130	20
1,2,3-Trichlorobenzene	10	9.9	99	10	9.6	96	3	70-130	20
1,2,4-Trichlorobenzene	10	9.9	99	10	9.5	95	4	70-130	20
Methyl Acetate	10	9.6	96	10	11	110	14	70-130	20
Cyclohexane	10	13	130	10	12	120	8	70-130	20
Freon-113	10	12	120	10	11	110	9	70-130	20
Methyl cyclohexane	10	11	110	10	10	100	10	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/16/24 11:22
Matrix Spike	: WG1935824-6	**MS Analysis Date**	: 06/16/24 16:30
Matrix Spike Dup	: WG1935824-7	**MSD Analysis Date**	: 06/16/24 16:52

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	10	100	10	11	110	10	70-130	20
1,1-Dichloroethane	ND	10	12	120	10	12	120	0	70-130	20
Chloroform	ND	10	11	110	10	12	120	9	70-130	20
Carbon tetrachloride	ND	10	11	110	10	12	120	9	63-132	20
1,2-Dichloropropane	ND	10	10	100	10	11	110	10	70-130	20
Dibromochloromethane	ND	10	8.4	84	10	8.7	87	4	63-130	20
1,1,2-Trichloroethane	ND	10	9.3	93	10	9.4	94	1	70-130	20
Tetrachloroethene	ND	10	9.1	91	10	9.5	95	4	70-130	20
Chlorobenzene	ND	10	9.4	94	10	10	100	6	75-130	20
Trichlorofluoromethane	ND	10	12	120	10	12	120	0	62-150	20
1,2-Dichloroethane	ND	10	11	110	10	12	120	9	70-130	20
1,1,1-Trichloroethane	ND	10	11	110	10	12	120	9	67-130	20
Bromodichloromethane	ND	10	10	100	10	11	110	10	67-130	20
trans-1,3-Dichloropropene	ND	10	9.1	91	10	9.6	96	5	70-130	20
cis-1,3-Dichloropropene	ND	10	9.2	92	10	9.8	98	6	70-130	20
Bromoform	ND	10	8.1	81	10	8.2	82	1	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	9.5	95	10	10	100	5	67-130	20
Benzene	ND	10	10	100	10	11	110	10	70-130	20
Toluene	ND	10	9.9	99	10	10	100	1	70-130	20
Ethylbenzene	ND	10	10	100	10	11	110	10	70-130	20
Chloromethane	ND	10	12	120	10	12	120	0	64-130	20
Bromomethane	ND	10	9.7	97	10	11	110	13	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/16/24 11:22
Matrix Spike	: WG1935824-6	**MS Analysis Date**	: 06/16/24 16:30
Matrix Spike Dup	: WG1935824-7	**MSD Analysis Date**	: 06/16/24 16:52

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	12	120	10	13	130	8	55-140	20
Chloroethane	ND	10	9.5	95	10	12	120	23 Q	55-138	20
1,1-Dichloroethene	ND	10	11	110	10	12	120	9	61-145	20
trans-1,2-Dichloroethene	ND	10	10	100	10	11	110	10	70-130	20
Trichloroethene	ND	10	9.8	98	10	10	100	2	70-130	20
1,2-Dichlorobenzene	ND	10	9.2	92	10	9.7	97	5	70-130	20
1,3-Dichlorobenzene	ND	10	9.1	91	10	9.6	96	5	70-130	20
1,4-Dichlorobenzene	ND	10	9.0	90	10	9.5	95	5	70-130	20
Methyl tert butyl ether	ND	10	9.2	92	10	9.7	97	5	63-130	20
p/m-Xylene	ND	20	20	100	20	21	105	5	70-130	20
o-Xylene	ND	20	20	100	20	21	105	5	70-130	20
cis-1,2-Dichloroethene	ND	10	10	100	10	11	110	10	70-130	20
Styrene	ND	20	20	100	20	21	105	5	70-130	20
Dichlorodifluoromethane	ND	10	11	110	10	11	110	0	36-147	20
Acetone	ND	10	12	120	10	12	120	0	58-148	20
Carbon disulfide	ND	10	11	110	10	12	120	9	51-130	20
2-Butanone	ND	10	9.8	98	10	10	100	2	63-138	20
4-Methyl-2-pentanone	ND	10	8.6	86	10	9.5	95	10	59-130	20
2-Hexanone	ND	10	8.8	88	10	9.6	96	9	57-130	20
Bromochloromethane	ND	10	10	100	10	11	110	10	70-130	20
1,2-Dibromoethane	ND	10	8.9	89	10	9.2	92	3	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.4	84	10	9.0	90	7	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/16/24 11:22
Matrix Spike	: WG1935824-6	**MS Analysis Date**	: 06/16/24 16:30
Matrix Spike Dup	: WG1935824-7	**MSD Analysis Date**	: 06/16/24 16:52

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Isopropylbenzene	ND	10	10	100	10	11	110	10	70-130	20
1,2,3-Trichlorobenzene	ND	10	8.6	86	10	9.2	92	7	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.4	84	10	8.8	88	5	70-130	20
Methyl Acetate	ND	10	9.5	95	10	10	100	5	70-130	20
Cyclohexane	ND	10	10	100	10	11	110	10	70-130	20
Freon-113	ND	10	10	100	10	11	110	10	70-130	20
Methyl cyclohexane	ND	10	8.5J	85	10	9.0J	90	6	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935824-5	**Lab File ID**	: V30240616A05
Instrument ID	: VOA130		
Matrix	: WATER	**Analysis Date**	: 06/16/24 08:48

Client Sample No.	Lab Sample ID	Analysis Date
WG1935824-3LCS	WG1935824-3	06/16/24 07:19
WG1935824-4LCSD	WG1935824-4	06/16/24 07:41
TRIP BLANK	L2433035-11	06/16/24 10:16
MW-8S	L2433035-01	06/16/24 10:38
MW-8D	L2433035-02	06/16/24 11:00
MW-1SR	L2433035-03	06/16/24 11:22
MW-1DR2	L2433035-04	06/16/24 11:44
MP-1	L2433035-05	06/16/24 12:06
MP-1D	L2433035-06	06/16/24 12:28
PZ-6	L2433035-07	06/16/24 12:50
MW-6D	L2433035-08	06/16/24 13:12
EB_06122024	L2433035-09	06/16/24 13:34
DUP_06122024	L2433035-10	06/16/24 13:56
MW-1SRMS	WG1935824-6	06/16/24 16:30
MW-1SRMSD	WG1935824-7	06/16/24 16:52

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 06/11/24 12:12
Tune Standard	: WG1933246-1	**Tune File ID**	: V30240611NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 80.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	Greater than 50.0% of mass 95	72.6
175	5.0 - 9.0% of mass 174	5.5 (7.6)1
176	Greater than 95.0% but less than 101% of mass	69.5 (95.7)1
177	5.0 - 9.0% of mass 176	4.7 (6.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1839915-1	V30240611N03	06/11/24 13:09
STD0.5PPB	R1839915-2	V30240611N04	06/11/24 13:31
STD2PPB	R1839915-3	V30240611N06	06/11/24 14:15
STD10PPB	R1839915-4	V30240611N08	06/11/24 14:59
STD30PPB	R1839915-5	V30240611N09	06/11/24 15:21
STD80PPB	R1839915-7	V30240611N10	06/11/24 15:43
STD120PPB	R1839915-6	V30240611N11	06/11/24 16:05
STD200PPB	R1839915-9	V30240611N12	06/11/24 16:27
ICV Quant Report	R1839915-8	V30240611N17	06/11/24 18:18

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 06/16/24 07:01
Tune Standard	: WG1935824-1	**Tune File ID**	: V30240616ABF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 80.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	65.9
175	5.0 - 9.0% of mass 174	5 (7.6)1
176	Greater than 95.0% but less than 101% of mass	63.3 (96)1
177	5.0 - 9.0% of mass 176	3.7 (5.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935824-2CCAL	WG1935824-2	V30240616A01	06/16/24 07:19
WG1935824-3LCS	WG1935824-3	V30240616A01	06/16/24 07:19
WG1935824-4LCSD	WG1935824-4	V30240616A02	06/16/24 07:41
WG1935824-5BLANK	WG1935824-5	V30240616A05	06/16/24 08:48
TRIP BLANK	L2433035-11	V30240616A09	06/16/24 10:16
MW-8S	L2433035-01	V30240616A10	06/16/24 10:38
MW-8D	L2433035-02	V30240616A11	06/16/24 11:00
MW-1SR	L2433035-03	V30240616A12	06/16/24 11:22
MW-1DR2	L2433035-04	V30240616A13	06/16/24 11:44
MP-1	L2433035-05	V30240616A14	06/16/24 12:06
MP-1D	L2433035-06	V30240616A15	06/16/24 12:28
PZ-6	L2433035-07	V30240616A16	06/16/24 12:50
MW-6D	L2433035-08	V30240616A17	06/16/24 13:12
EB_06122024	L2433035-09	V30240616A18	06/16/24 13:34
DUP_06122024	L2433035-10	V30240616A19	06/16/24 13:56
WG1935824-6MS	WG1935824-6	V30240616A26	06/16/24 16:30
WG1935824-7MSD	WG1935824-7	V30240616A27	06/16/24 16:52

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA130	**Analysis Date**	: 06/16/24 07:19:00
Sample No	: WG1935824-2	**Lab File ID**	: V30240616A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1935824-2	452669	6.11	333131	9.67	181690	12.35
Upper Limit	905338	6.61	666262	10.17	363380	12.85
Lower Limit	226335	5.61	166566	9.17	90845	11.85
Sample ID						
WG1935824-3 LCS	452669	6.11	333131	9.67	181690	12.35
WG1935824-4 LCSD	441704	6.11	339183	9.67	184981	12.35
WG1935824-5 BLANK	384470	6.11	310171	9.67	160849	12.35
TRIP BLANK	366656	6.12	300910	9.67	152137	12.35
MW-8S	349101	6.12	289265	9.67	147225	12.35
MW-8D	342630	6.12	286710	9.67	147110	12.35
MW-1SR	344173	6.12	284147	9.67	146007	12.35
MW-1DR2	349097	6.12	292400	9.67	149821	12.35
MP-1	343132	6.12	286932	9.67	147263	12.35
MP-1D	328195	6.11	275178	9.67	140788	12.35
PZ-6	339340	6.12	281635	9.67	144755	12.35
MW-6D	343377	6.12	287603	9.67	148709	12.35
EB_06122024	335556	6.12	281921	9.67	148191	12.35
DUP_06122024	336308	6.12	282576	9.67	145227	12.35
MW-1SR MS	386727	6.11	300331	9.67	166831	12.35
MW-1SR MSD	390758	6.11	308901	9.67	170649	12.35

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

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

* Values outside of QC limits

Date Created: 03/15/23
Created By: Jason Hebert
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Volatile Organics - EPA 8260D (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

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

Volatile Organics - EPA 8260D (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Date Created: 03/15/23
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File: PM14095-1
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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A10	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A11	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A11	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A11	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A12	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A12	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A12	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A13	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A13	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 11:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A13	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A14	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A15	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A16	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A17	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A18	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 13:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A19	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-11	**Date Collected**	: 06/12/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:16
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-11	**Date Collected**	: 06/12/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:16
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-11	**Date Collected**	: 06/12/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/16/24 10:16
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A09	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935824-5	**Date Collected**	: NA
Client ID	: WG1935824-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935824-5	**Date Collected**	: NA
Client ID	: WG1935824-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935824-5	**Date Collected**	: NA
Client ID	: WG1935824-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: V30240616A05	**Instrument ID**	: VOA130
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A09.D
Acq On : 16 Jun 2024 10:16 am
Operator : VOA130:MJV
Sample : l2433035-11,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:22:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	366656	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery = 81.00%		
63) Chlorobenzene-d5	9.665	117	300910	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery = 90.33%		
84) 1,4-Dichlorobenzene-d4	12.349	152	152137	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery = 83.73%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	117217	11.358 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.58%		
47) 1,2-Dichloroethane-d4	5.822	65	142849	11.492 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.92%		
64) Toluene-d8	7.814	98	396246	9.782 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.82%		
88) 4-Bromofluorobenzene	11.143	95	154768	10.933 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.33%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.868	50	459	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.267	94	146	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	0.000		0	N.D. d	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.583	84	389	N.D.	
17) Acetone	3.630	43	1483	Below Cal #	50
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.941	96	51	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A09.D
Acq On : 16 Jun 2024 10:16 am
Operator : VOA130:MJV
Sample : l2433035-11,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:22:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	5.691	78	267	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.872	92	1653	0.090	ug/L	100
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.728	91	66	N.D.		
81) p/m Xylene	0.000		0	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.360	146	58	N.D.		
106) 1,4-Dichlorobenzene	12.360	146	58	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

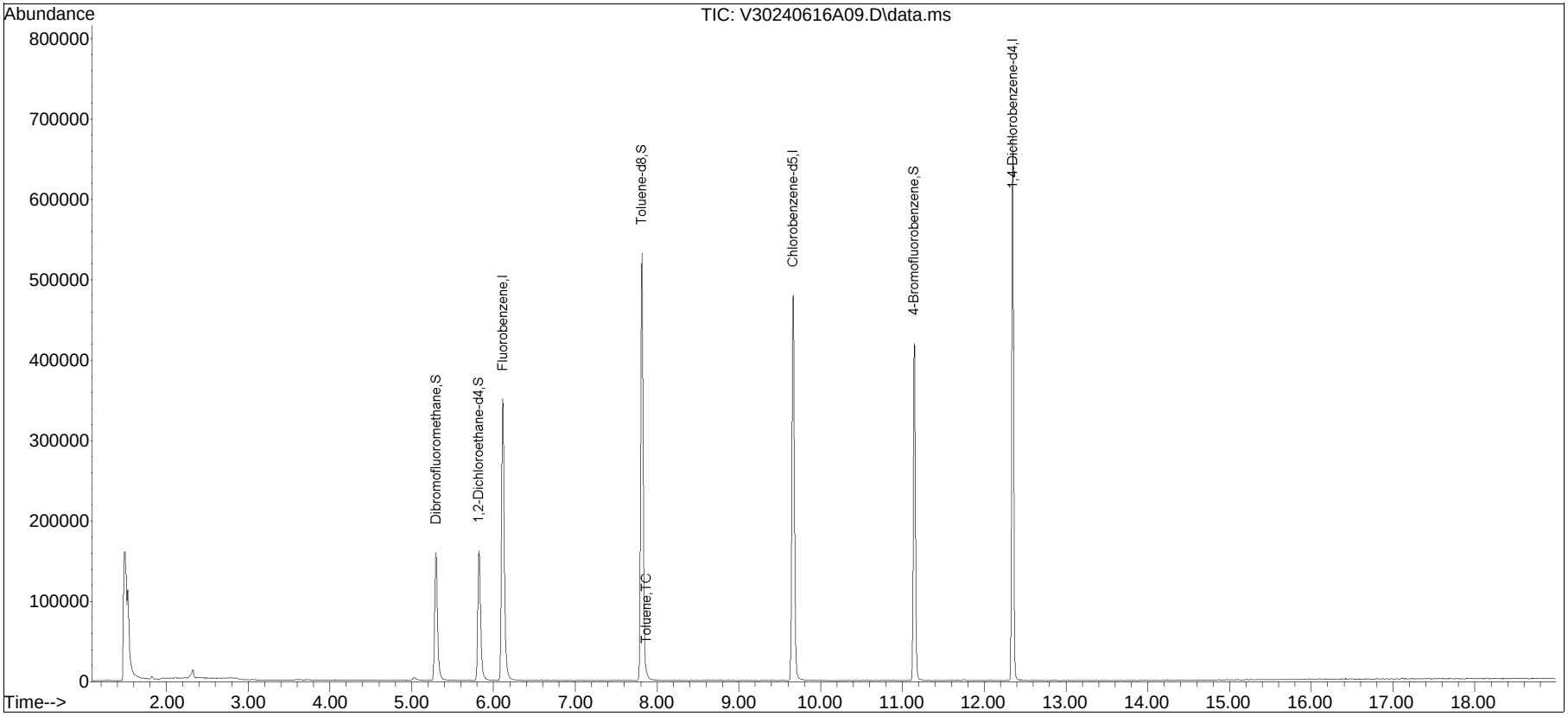
(#) = qualifier out of range (m) = manual integration (+) = signals summed

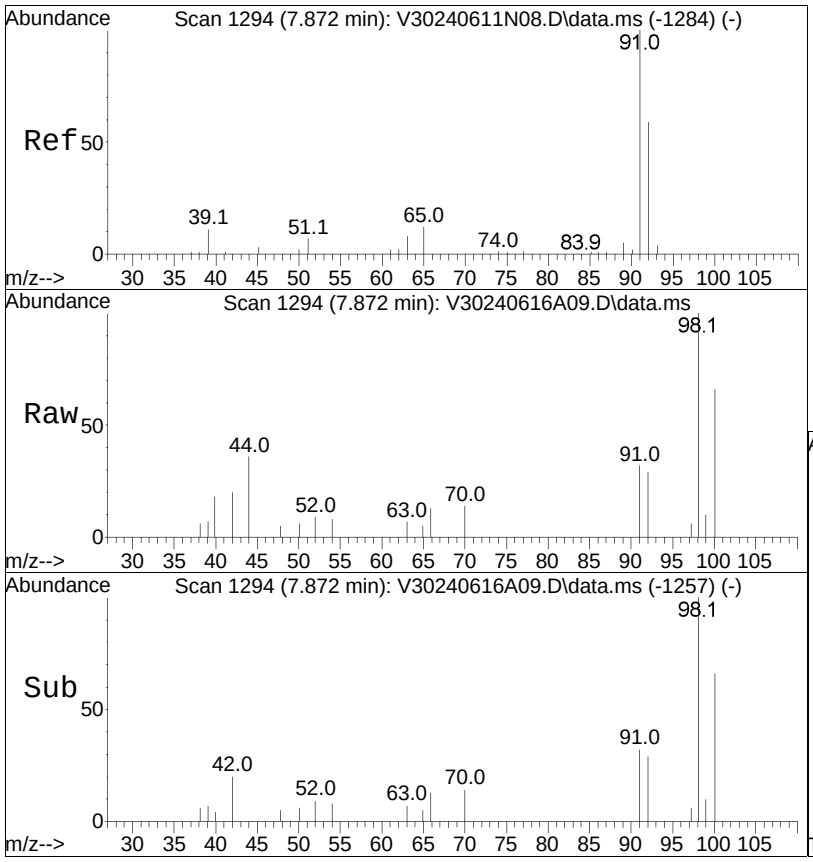
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A09.D
Acq On : 16 Jun 2024 10:16 am
Operator : VOA130:MJV
Sample : l2433035-11,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:22:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

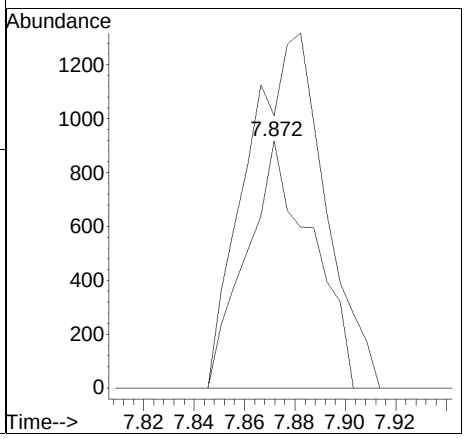




#65
Toluene
Concen: 0.09 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240616A09.D
Acq: 16 Jun 2024 10:16 am

Tgt Ion: 92 Resp: 1653

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.5	206.3



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A09.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 10:16 am	Instrument	: VOA130
Sample	: l2433035-11,31,10,10,,a	Quant Date	: 6/18/2024 9:12 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A10.D
Acq On : 16 Jun 2024 10:38 am
Operator : VOA130:MJV
Sample : l2433035-01,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 09:22:48 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	349101	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery = 77.12%		
63) Chlorobenzene-d5	9.665	117	289265	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery = 86.83%		
84) 1,4-Dichlorobenzene-d4	12.349	152	147225	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery = 81.03%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	113068	11.507 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.07%		
47) 1,2-Dichloroethane-d4	5.827	65	142465	12.038 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.38%		
64) Toluene-d8	7.814	98	378103	9.710 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.10%		
88) 4-Bromofluorobenzene	11.143	95	148798	10.862 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.62%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.868	50	350	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.272	94	68	N.D.	
6) Chloroethane	2.335	64	51	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.053	76	1398	0.074 ug/L #	73
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.583	84	387	N.D.	
17) Acetone	3.625	43	801	Below Cal #	50
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A10.D
Acq On : 16 Jun 2024 10:38 am
Operator : VOA130:MJV
Sample : l2433035-01,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 09:22:48 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	0.000		0		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	0.000		0		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.665	91	515		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.365	146	48		N.D.	
106) 1,4-Dichlorobenzene	12.365	146	48		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

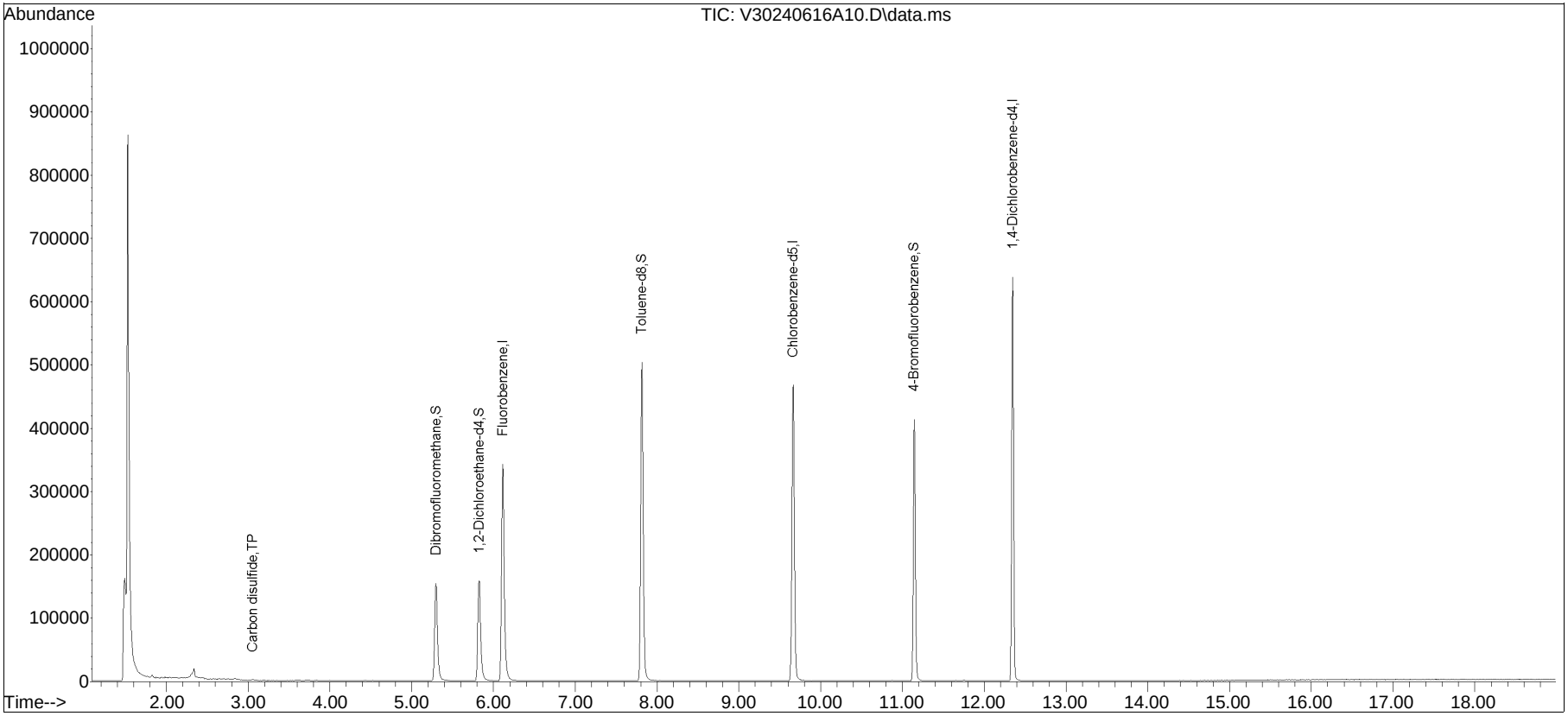
(#) = qualifier out of range (m) = manual integration (+) = signals summed

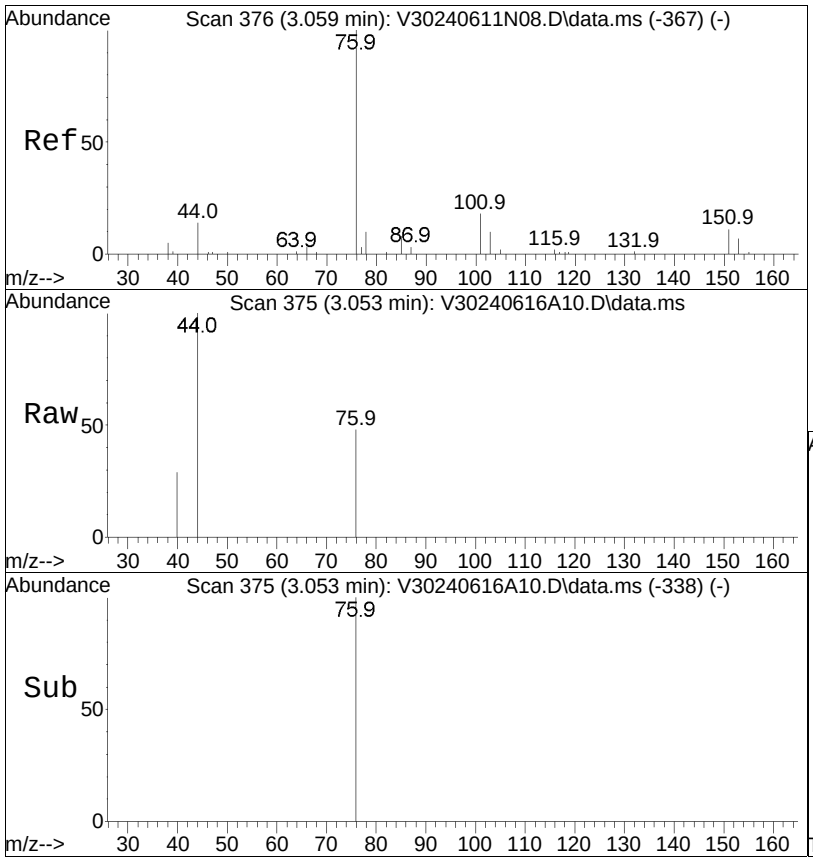
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A10.D
Acq On : 16 Jun 2024 10:38 am
Operator : VOA130:MJV
Sample : l2433035-01,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 18 09:22:48 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

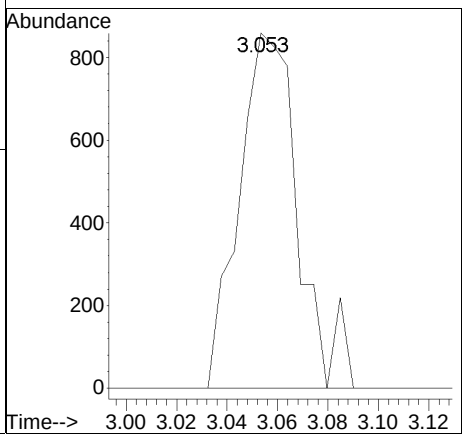




#11
Carbon disulfide
Concen: 0.07 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A10.D
Acq: 16 Jun 2024 10:38 am

Tgt Ion: 76 Resp: 1398

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.4	13.4#



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A10.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 10:38 am	Instrument	: VOA130
Sample	: l2433035-01,31,10,10,,a	Quant Date	: 6/18/2024 9:12 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A11.D
Acq On : 16 Jun 2024 11:00 am
Operator : VOA130:MJV
Sample : l2433035-02,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 09:23:47 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	342630	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 75.69%			
63) Chlorobenzene-d5	9.665	117	286710	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 86.07%			
84) 1,4-Dichlorobenzene-d4	12.349	152	147110	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 80.97%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	112911	11.708	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.08%			
47) 1,2-Dichloroethane-d4	5.822	65	137566	11.843	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.43%			
64) Toluene-d8	7.814	98	374013	9.690	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.90%			
88) 4-Bromofluorobenzene	11.143	95	148945	10.881	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.863	50	311	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.267	94	122	N.D.		
6) Chloroethane	2.314	64	54	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	3.032	96	61	N.D.		
11) Carbon disulfide	3.058	76	1164	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.583	84	382	N.D.		
17) Acetone	3.625	43	513	Below Cal #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	3.840	73	1303	0.095	ug/L #	77
25) 1,1-Dichloroethane	4.332	63	98	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.114	83	1314	0.105	ug/L #	86
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A11.D
Acq On : 16 Jun 2024 11:00 am
Operator : VOA130:MJV
Sample : l2433035-02,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 09:23:47 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	5.334	97	539	N.D.		
42) 2-Butanone	0.000		0	N.D.	d	
45) Benzene	5.690	78	118	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	6.304	95	57	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	0.000		0	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.665	91	560	N.D.		
81) p/m Xylene	0.000		0	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.286	146	51	N.D.		
106) 1,4-Dichlorobenzene	12.360	146	48	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

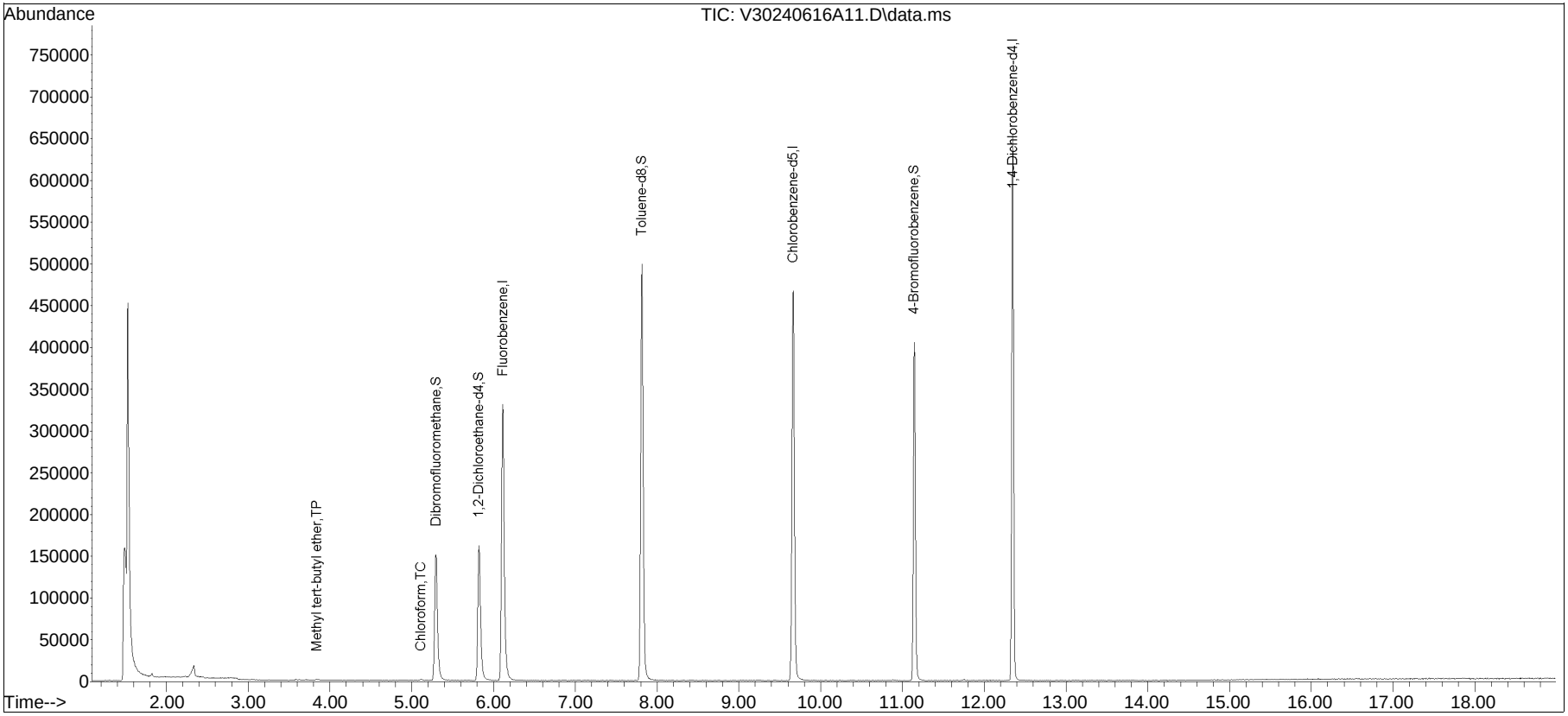
(#) = qualifier out of range (m) = manual integration (+) = signals summed

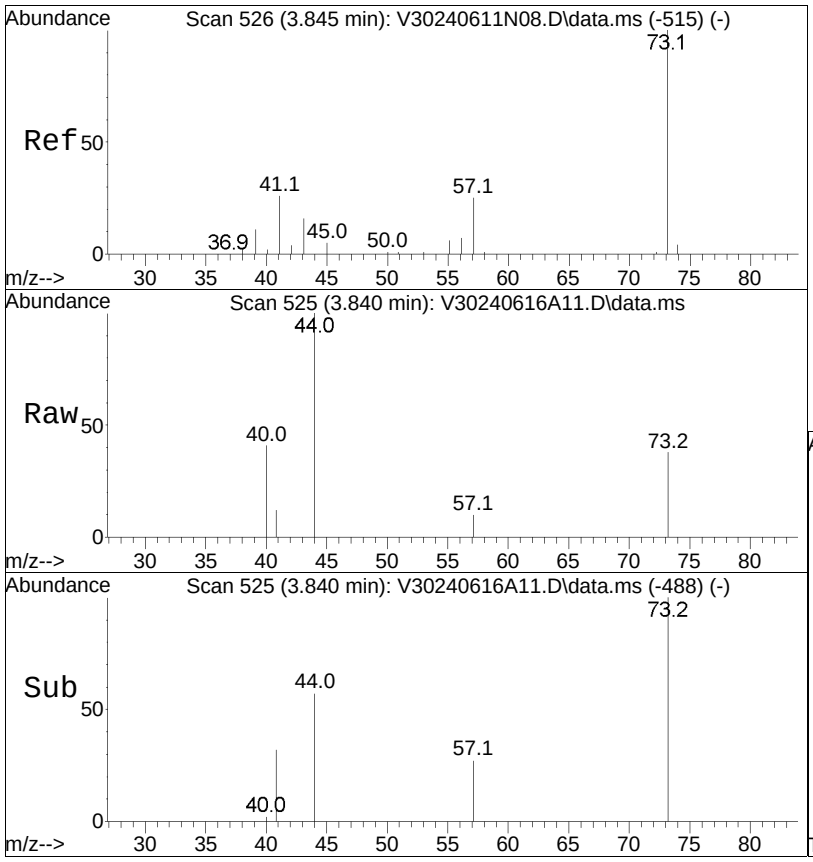
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A11.D
Acq On : 16 Jun 2024 11:00 am
Operator : VOA130:MJV
Sample : l2433035-02,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 18 09:23:47 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

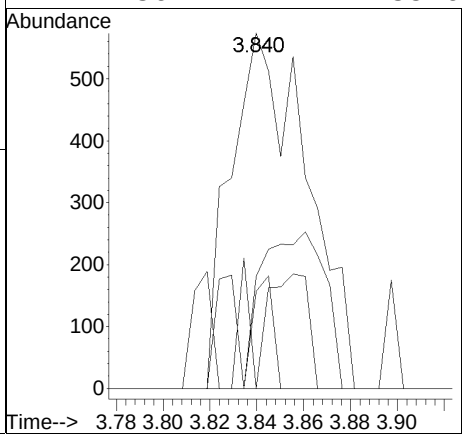


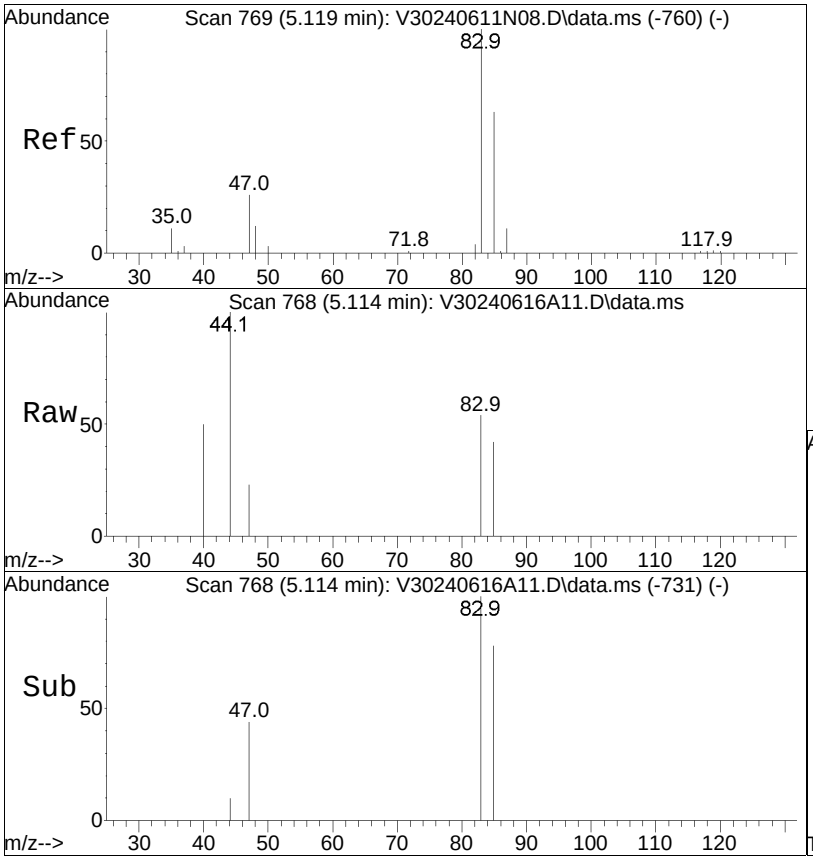


#21
Methyl tert-butyl ether
Concen: 0.10 ug/L
RT: 3.840 min Scan# 525
Delta R.T. -0.005 min
Lab File: V30240616A11.D
Acq: 16 Jun 2024 11:00 am

Tgt Ion: 73 Resp: 1303

Ion	Ratio	Lower	Upper
73	100		
57	8.2	15.5	32.1#
43	16.7	16.6	34.6
41	36.4	17.2	35.6#

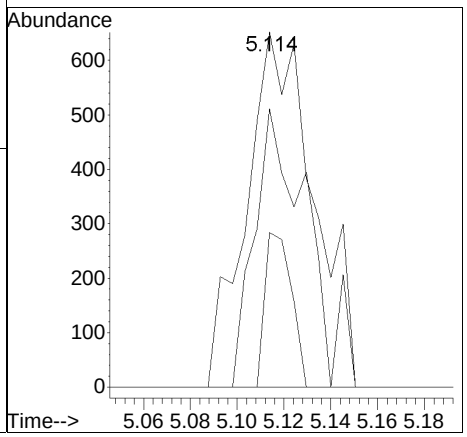




#35
Chloroform
Concen: 0.10 ug/L
RT: 5.114 min Scan# 768
Delta R.T. -0.005 min
Lab File: V30240616A11.D
Acq: 16 Jun 2024 11:00 am

Tgt Ion: 83 Resp: 1314

Ion	Ratio	Lower	Upper
83	100		
85	61.7	41.4	86.0
47	17.0	20.5	42.5#
48	0.0	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A11.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 11:00 am	Instrument	: VOA130
Sample	: l2433035-02,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A12.D
Acq On : 16 Jun 2024 11:22 am
Operator : VOA130:MJV
Sample : l2433035-03,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 18 09:24:06 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	344173	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 76.03%			
63) Chlorobenzene-d5	9.665	117	284147	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 85.30%			
84) 1,4-Dichlorobenzene-d4	12.349	152	146007	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 80.36%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	110608	11.418	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.18%			
47) 1,2-Dichloroethane-d4	5.822	65	140442	12.037	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.37%			
64) Toluene-d8	7.814	98	369796	9.667	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.67%			
88) 4-Bromofluorobenzene	11.143	95	147415	10.851	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.053	76	1191	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.578	84	294	N.D.		
17) Acetone	3.625	43	275	Below Cal #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A12.D
Acq On : 16 Jun 2024 11:22 am
Operator : VOA130:MJV
Sample : l2433035-03,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 18 09:24:06 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	0.000		0		N.D.	
45)	Benzene	0.000		0		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	6.204	95	161		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	0.000		0		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	0.000		0		N.D.	
79)	Ethylbenzene	9.670	91	516		N.D.	
81)	p/m Xylene	0.000		0		N.D.	
82)	o Xylene	0.000		0		N.D.	
83)	Styrene	0.000		0		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	0.000		0		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	0.000		0		N.D.	
106)	1,4-Dichlorobenzene	0.000		0		N.D.	
109)	1,2-Dichlorobenzene	0.000		0		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
116)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

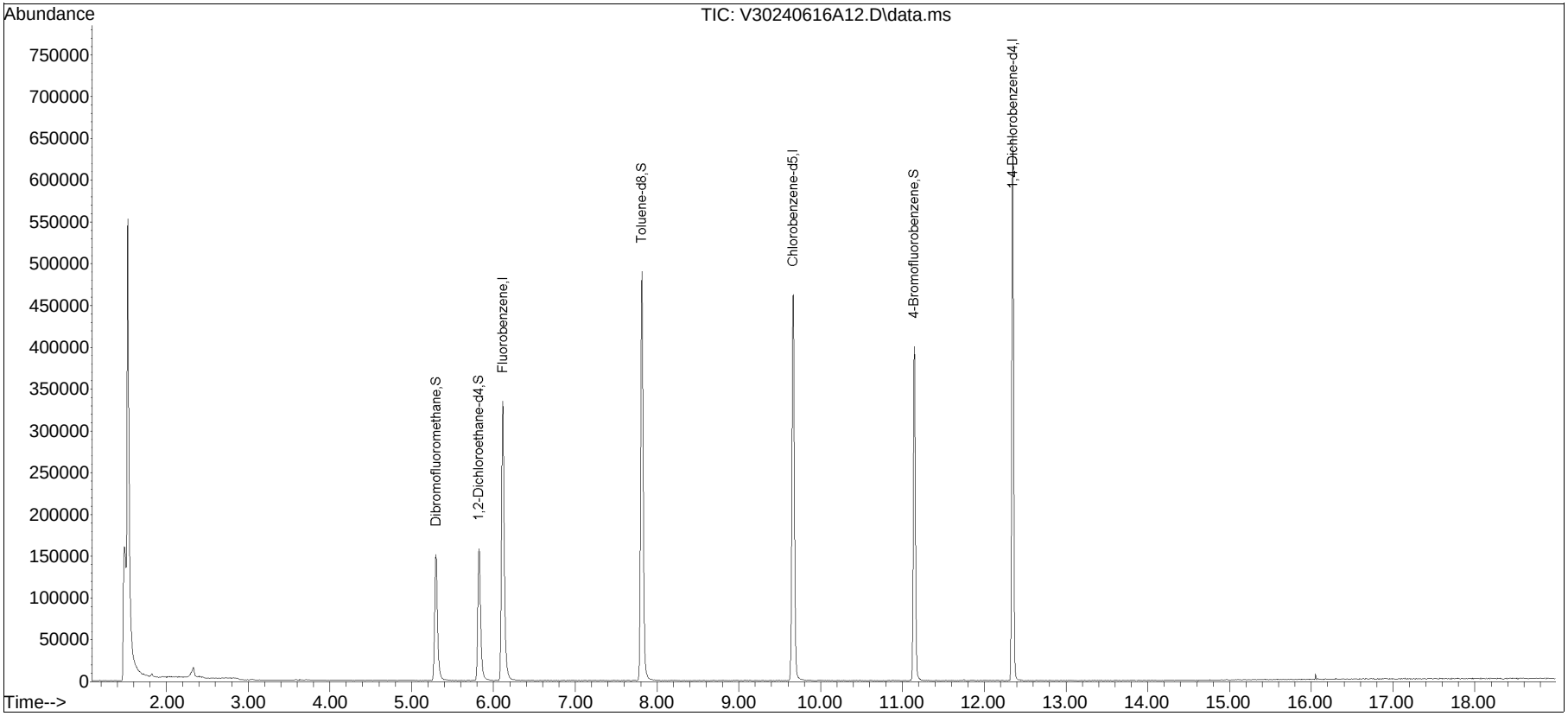
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A12.D
Acq On : 16 Jun 2024 11:22 am
Operator : VOA130:MJV
Sample : l2433035-03,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 18 09:24:06 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A12.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 11:22 am	Instrument	: VOA130
Sample	: l2433035-03,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A13.D
Acq On : 16 Jun 2024 11:44 am
Operator : VOA130:MJV
Sample : l2433035-04,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 09:25:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	349097	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery = 77.12%		
63) Chlorobenzene-d5	9.665	117	292400	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery = 87.77%		
84) 1,4-Dichlorobenzene-d4	12.349	152	149821	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery = 82.46%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.292	113	113859	11.588 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.88%		
47) 1,2-Dichloroethane-d4	5.822	65	140595	11.880 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.80%		
64) Toluene-d8	7.814	98	380857	9.676 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.76%		
88) 4-Bromofluorobenzene	11.143	95	150303	10.782 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.82%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.863	50	309	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.330	94	52	N.D.	
6) Chloroethane	2.330	64	53	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	0.000		0	N.D. d	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.588	84	385	N.D.	
17) Acetone	3.620	43	536	Below Cal #	50
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	4.322	63	54	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	5.119	83	2835	0.222 ug/L #	93
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A13.D
Acq On : 16 Jun 2024 11:44 am
Operator : VOA130:MJV
Sample : l2433035-04,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 09:25:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.701	78	527		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	6.299	95	48		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.872	92	161		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.660	91	637		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	12.355	146	229		N.D.	
106) 1,4-Dichlorobenzene	12.355	146	229		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

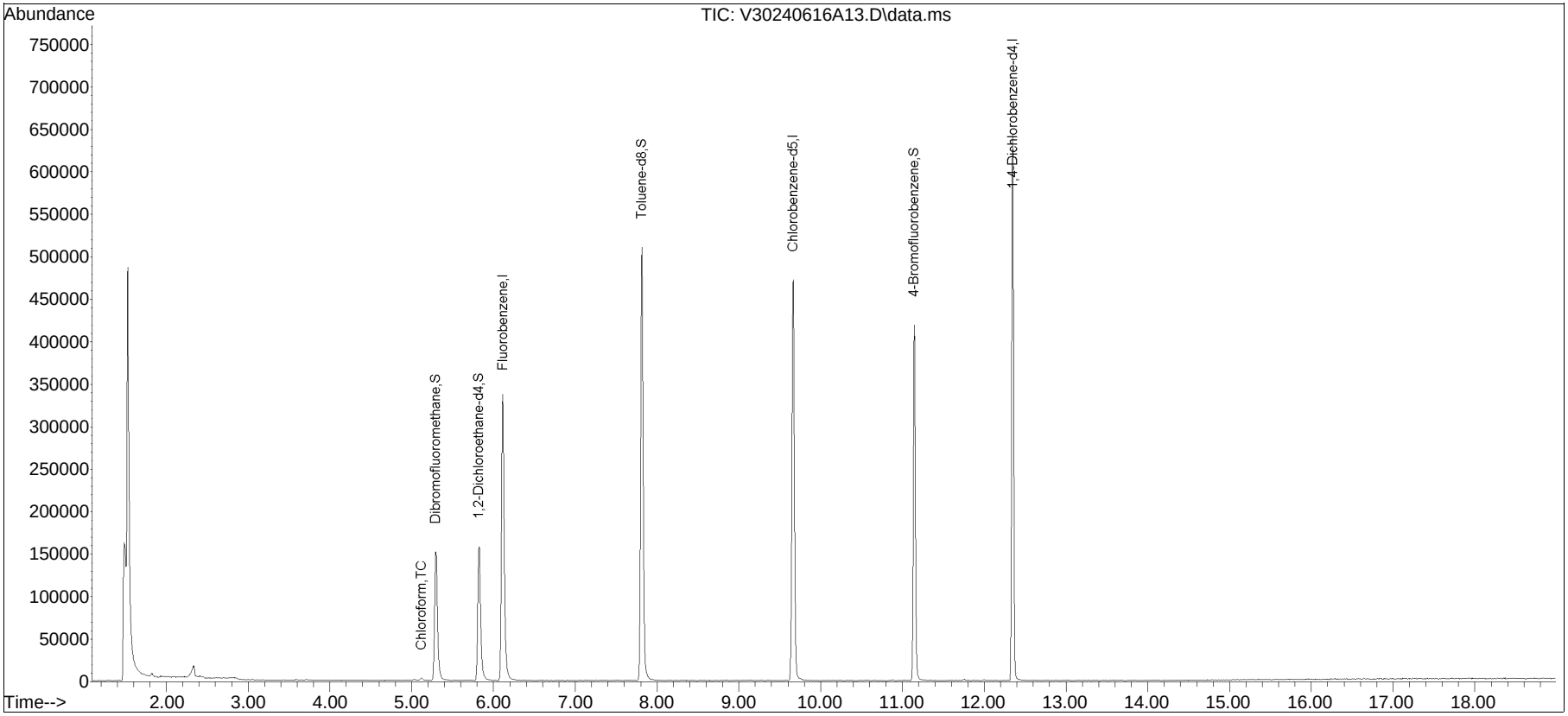
(#) = qualifier out of range (m) = manual integration (+) = signals summed

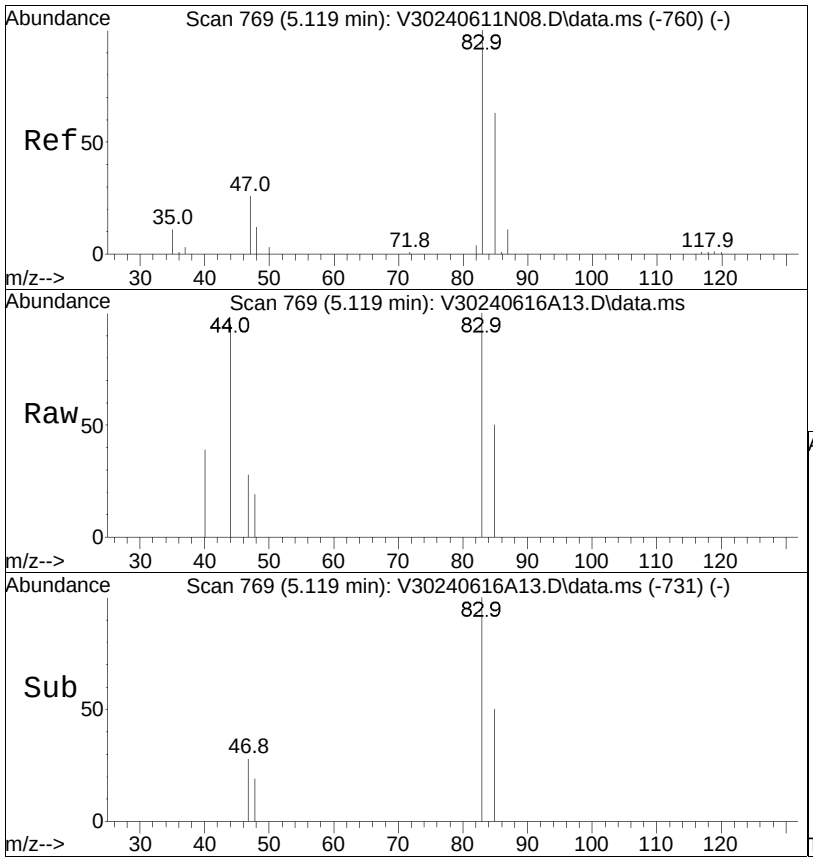
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A13.D
Acq On : 16 Jun 2024 11:44 am
Operator : VOA130:MJV
Sample : l2433035-04,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 09:25:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

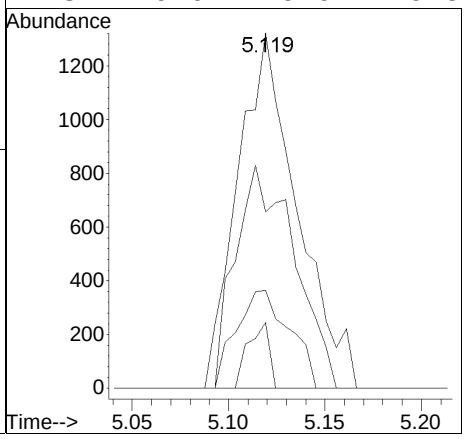




#35
Chloroform
Concen: 0.22 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240616A13.D
Acq: 16 Jun 2024 11:44 am

Tgt Ion: 83 Resp: 2835

Ion	Ratio	Lower	Upper
83	100		
85	62.5	41.4	86.0
47	24.7	20.5	42.5
48	6.6	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A13.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 11:44 am	Instrument	: VOA130
Sample	: l2433035-04,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A14.D
Acq On : 16 Jun 2024 12:06 pm
Operator : VOA130:MJV
Sample : l2433035-05,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 09:25:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	343132	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery = 75.80%		
63) Chlorobenzene-d5	9.665	117	286932	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery = 86.13%		
84) 1,4-Dichlorobenzene-d4	12.349	152	147263	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery = 81.05%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	111193	11.513 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.13%		
47) 1,2-Dichloroethane-d4	5.822	65	139708	12.010 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.10%		
64) Toluene-d8	7.814	98	370832	9.600 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.00%		
88) 4-Bromofluorobenzene	11.144	95	147099	10.735 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.35%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.507	85	282	N.D.	
3) Chloromethane	1.863	50	257	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.262	94	55	N.D.	
6) Chloroethane	2.319	64	52	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.053	76	1019	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.572	84	362	N.D.	
17) Acetone	3.625	43	636	Below Cal #	65
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A14.D
Acq On : 16 Jun 2024 12:06 pm
Operator : VOA130:MJV
Sample : l2433035-05,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 09:25:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.717	78	49		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.872	92	49		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.670	91	831		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

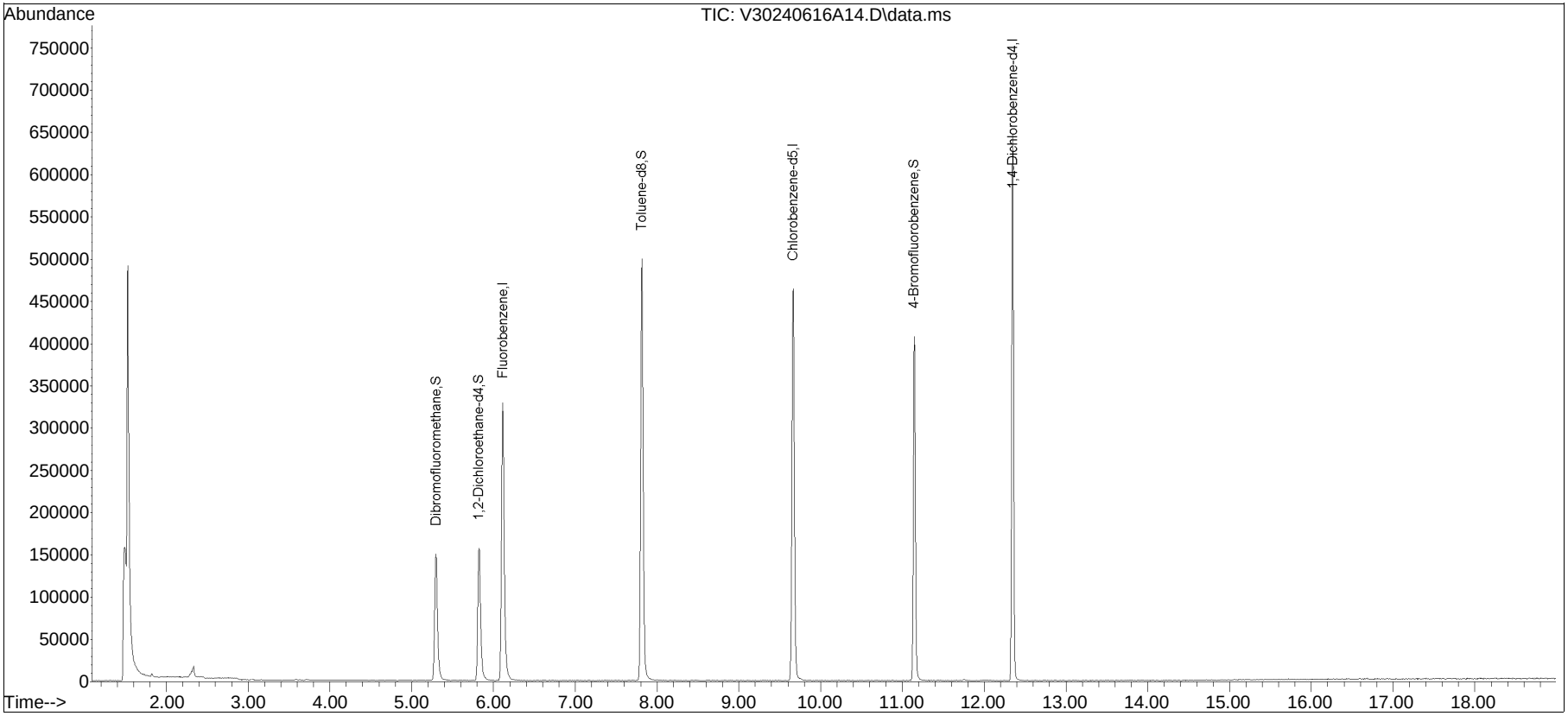
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A14.D
Acq On : 16 Jun 2024 12:06 pm
Operator : VOA130:MJV
Sample : l2433035-05,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 09:25:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A14.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 12:06 pm	Instrument	: VOA130
Sample	: l2433035-05,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A15.D
Acq On : 16 Jun 2024 12:28 pm
Operator : VOA130:MJV
Sample : l2433035-06,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 09:26:40 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	328195	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 72.50%			
63) Chlorobenzene-d5	9.665	117	275178	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 82.60%			
84) 1,4-Dichlorobenzene-d4	12.349	152	140788	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 77.49%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	109733	11.879	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.79%			
47) 1,2-Dichloroethane-d4	5.822	65	134444	12.084	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.84%			
64) Toluene-d8	7.814	98	362901	9.796	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.96%			
88) 4-Bromofluorobenzene	11.143	95	141903	10.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.868	50	254	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.267	94	145	N.D.		
6) Chloroethane	2.314	64	54	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.053	76	790	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.588	84	254	N.D.		
17) Acetone	3.620	43	838	Below Cal #		63
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A15.D
Acq On : 16 Jun 2024 12:28 pm
Operator : VOA130:MJV
Sample : l2433035-06,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 09:26:40 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0		N.D.	
42) 2-Butanone	0.000		0		N.D.	
45) Benzene	5.696	78	395		N.D.	
48) 1,2-Dichloroethane	0.000		0		N.D.	
51) Methyl cyclohexane	0.000		0		N.D.	
52) Trichloroethene	0.000		0		N.D.	
55) 1,2-Dichloropropane	0.000		0		N.D.	
58) Bromodichloromethane	0.000		0		N.D.	
62) cis-1,3-Dichloropropene	0.000		0		N.D.	
65) Toluene	7.877	92	384		N.D.	
66) 4-Methyl-2-pentanone	0.000		0		N.D.	
67) Tetrachloroethene	0.000		0		N.D.	
69) trans-1,3-Dichloropropene	0.000		0		N.D.	
72) 1,1,2-Trichloroethane	0.000		0		N.D.	
73) Chlorodibromomethane	0.000		0		N.D.	
75) 1,2-Dibromoethane	0.000		0		N.D.	
77) 2-Hexanone	0.000		0		N.D.	
78) Chlorobenzene	0.000		0		N.D.	
79) Ethylbenzene	9.665	91	575		N.D.	
81) p/m Xylene	0.000		0		N.D.	
82) o Xylene	0.000		0		N.D.	
83) Styrene	0.000		0		N.D.	
85) Bromoform	0.000		0		N.D.	
87) Isopropylbenzene	0.000		0		N.D.	
92) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105) 1,3-Dichlorobenzene	0.000		0		N.D.	
106) 1,4-Dichlorobenzene	0.000		0		N.D.	
109) 1,2-Dichlorobenzene	0.000		0		N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

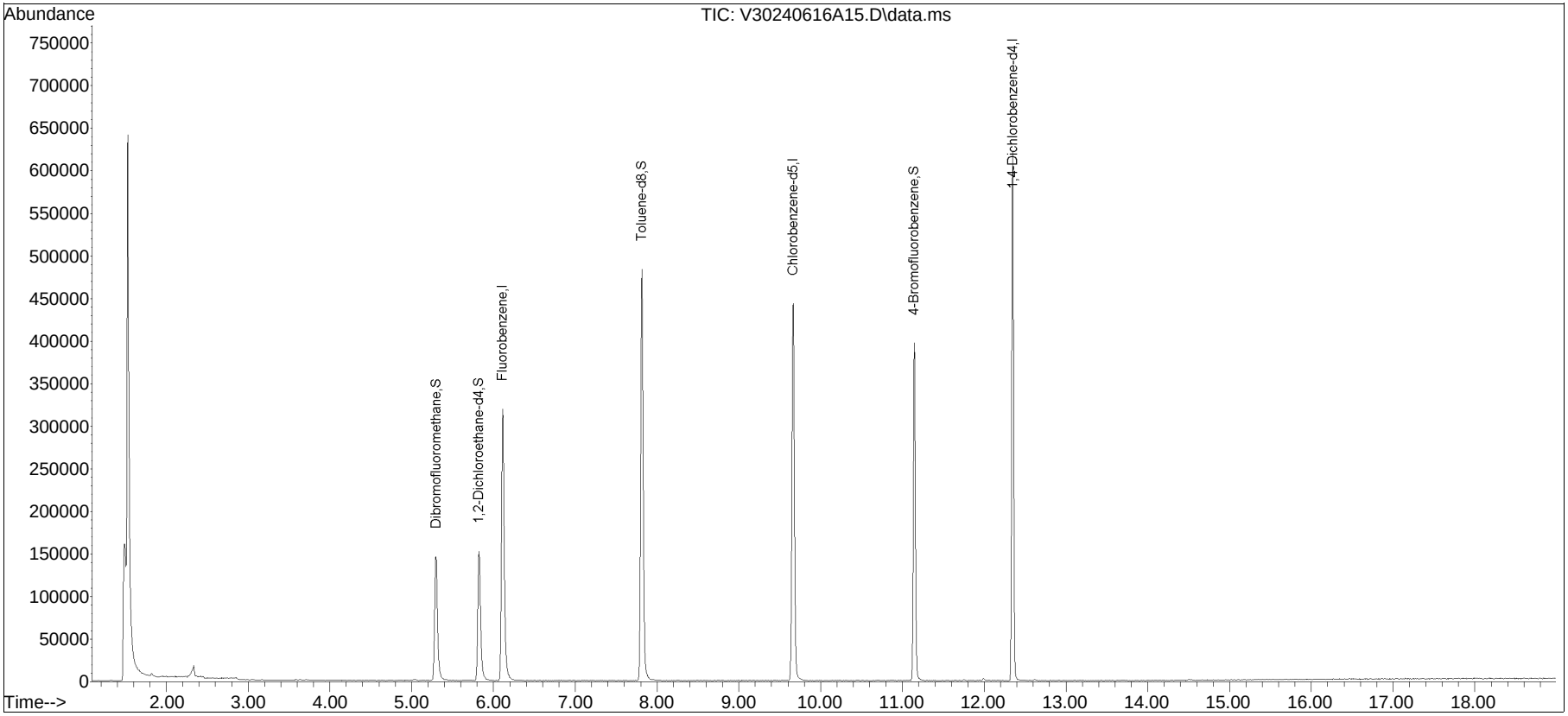
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A15.D
Acq On : 16 Jun 2024 12:28 pm
Operator : VOA130:MJV
Sample : l2433035-06,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 09:26:40 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A15.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 12:28 pm	Instrument	: VOA130
Sample	: l2433035-06,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A16.D
Acq On : 16 Jun 2024 12:50 pm
Operator : VOA130:MJV
Sample : l2433035-07,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 09:27:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	339340	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 74.96%			
63) Chlorobenzene-d5	9.665	117	281635	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 84.54%			
84) 1,4-Dichlorobenzene-d4	12.349	152	144755	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 79.67%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	110060	11.523	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.23%			
47) 1,2-Dichloroethane-d4	5.822	65	131495	11.431	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.31%			
64) Toluene-d8	7.814	98	364876	9.624	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.24%			
88) 4-Bromofluorobenzene	11.143	95	144553	10.732	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.304	94	54	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.059	76	922	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.583	84	363	N.D.		
17) Acetone	3.630	43	837	Below Cal #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A16.D
Acq On : 16 Jun 2024 12:50 pm
Operator : VOA130:MJV
Sample : l2433035-07,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 09:27:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	0.000		0		N.D.	
45)	Benzene	0.000		0		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	6.262	95	50		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	7.882	92	60		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	0.000		0		N.D.	
79)	Ethylbenzene	9.660	91	541		N.D.	
81)	p/m Xylene	0.000		0		N.D.	
82)	o Xylene	0.000		0		N.D.	
83)	Styrene	0.000		0		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	0.000		0		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	0.000		0		N.D.	
106)	1,4-Dichlorobenzene	0.000		0		N.D.	
109)	1,2-Dichlorobenzene	0.000		0		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
116)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

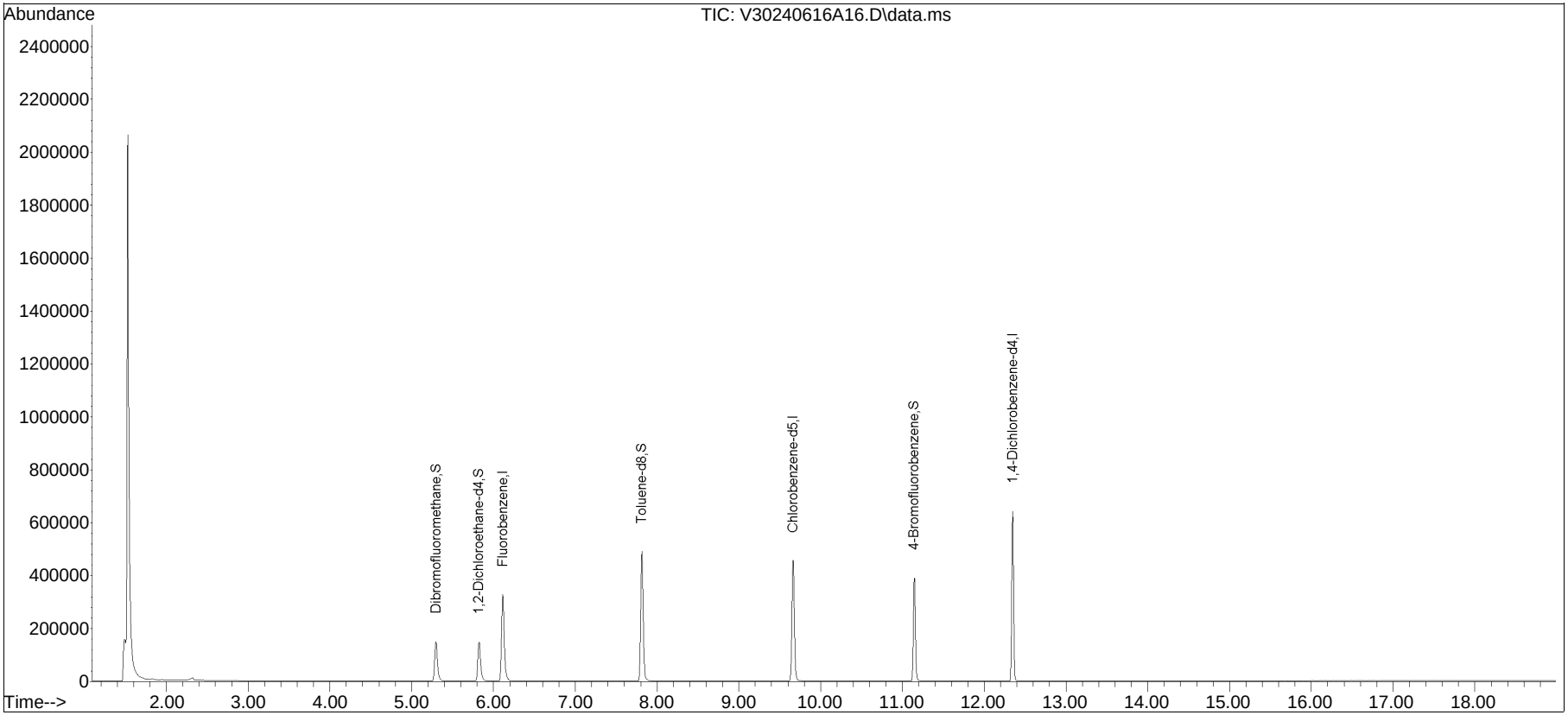
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A16.D
Acq On : 16 Jun 2024 12:50 pm
Operator : VOA130:MJV
Sample : l2433035-07,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 09:27:10 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A16.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 12:50 pm	Instrument	: VOA130
Sample	: l2433035-07,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A17.D
Acq On : 16 Jun 2024 01:12 pm
Operator : VOA130:MJV
Sample : l2433035-08,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 09:27:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	343377	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 75.86%			
63) Chlorobenzene-d5	9.665	117	287603	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 86.33%			
84) 1,4-Dichlorobenzene-d4	12.350	152	148709	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 81.85%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	112105	11.599	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.99%			
47) 1,2-Dichloroethane-d4	5.822	65	135303	11.623	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.23%			
64) Toluene-d8	7.814	98	375570	9.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.00%			
88) 4-Bromofluorobenzene	11.144	95	148938	10.764	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.863	50	209	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.272	94	102	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.059	76	762	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.578	84	404	N.D.		
17) Acetone	3.614	43	390	Below Cal #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	3.850	73	110	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.124	83	1689	0.134	ug/L #	89
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A17.D
Acq On : 16 Jun 2024 01:12 pm
Operator : VOA130:MJV
Sample : l2433035-08,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 09:27:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	0.000		0		N.D.	
45)	Benzene	5.680	78	62		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	6.231	95	53		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	0.000		0		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	0.000		0		N.D.	
79)	Ethylbenzene	9.660	91	582		N.D.	
81)	p/m Xylene	0.000		0		N.D.	
82)	o Xylene	0.000		0		N.D.	
83)	Styrene	0.000		0		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	0.000		0		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	12.355	146	51		N.D.	
106)	1,4-Dichlorobenzene	12.355	146	51		N.D.	
109)	1,2-Dichlorobenzene	0.000		0		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
116)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

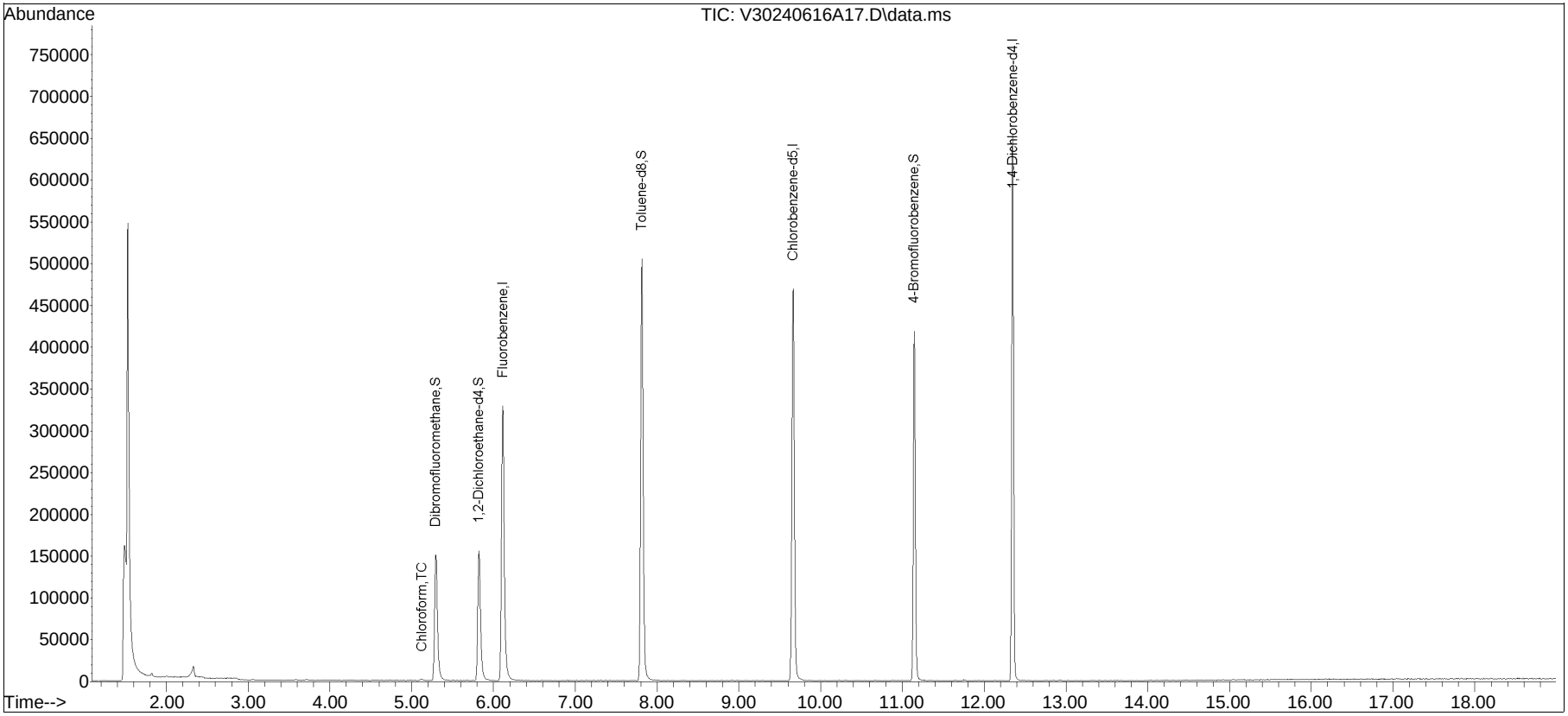
(#) = qualifier out of range (m) = manual integration (+) = signals summed

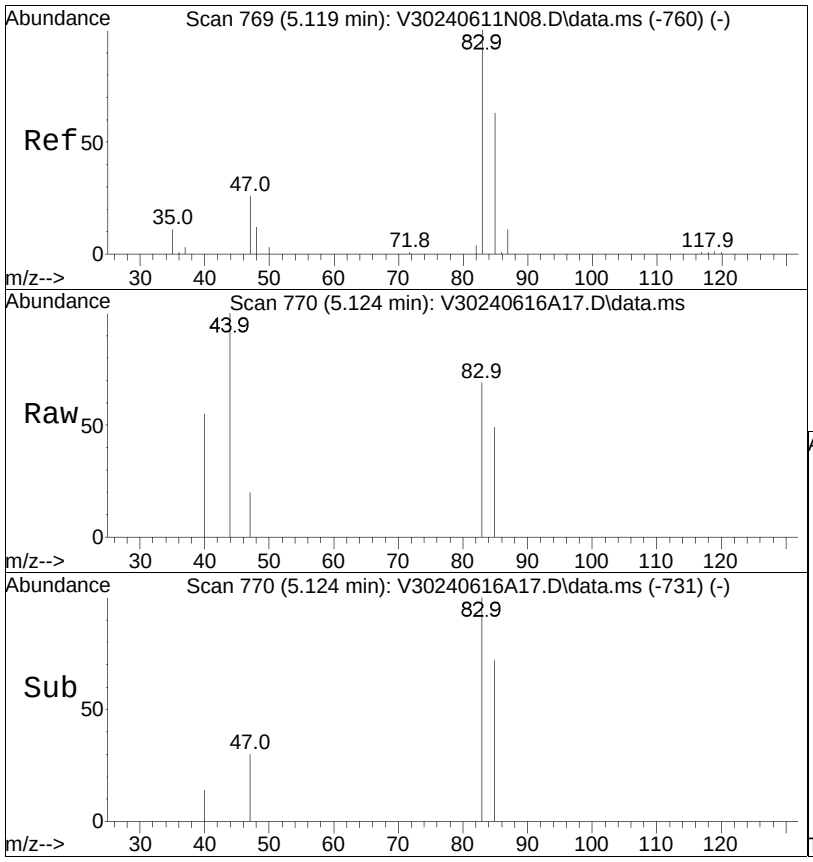
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A17.D
Acq On : 16 Jun 2024 01:12 pm
Operator : VOA130:MJV
Sample : l2433035-08,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 09:27:20 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

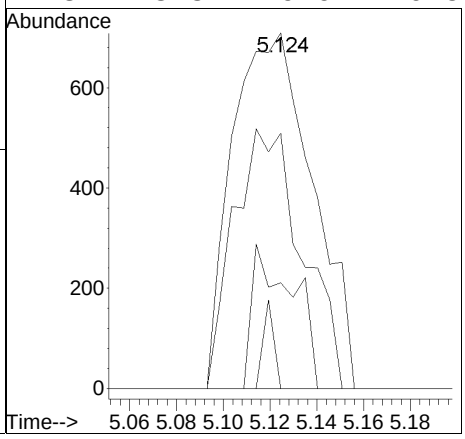




#35
Chloroform
Concen: 0.13 ug/L
RT: 5.124 min Scan# 770
Delta R.T. 0.005 min
Lab File: V30240616A17.D
Acq: 16 Jun 2024 01:12 pm

Tgt Ion: 83 Resp: 1689

Ion	Ratio	Lower	Upper
83	100		
85	62.1	41.4	86.0
47	20.5	20.5	42.5
48	3.3	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A17.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 1:12 pm	Instrument	: VOA130
Sample	: l2433035-08,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A18.D
Acq On : 16 Jun 2024 01:34 pm
Operator : VOA130:MJV
Sample : l2433035-09,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 09:27:31 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.115	96	335556	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery = 74.13%		
63) Chlorobenzene-d5	9.665	117	281921	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery = 84.63%		
84) 1,4-Dichlorobenzene-d4	12.349	152	148191	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery = 81.56%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.297	113	110760	11.727 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.27%		
47) 1,2-Dichloroethane-d4	5.821	65	133956	11.776 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.76%		
64) Toluene-d8	7.814	98	368290	9.704 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.04%		
88) 4-Bromofluorobenzene	11.143	95	145590	10.559 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.59%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.873	50	371	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.319	94	57	N.D.	
6) Chloroethane	2.340	64	50	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.063	76	670	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.588	84	282	N.D.	
17) Acetone	3.630	43	1437	Below Cal #	57
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A18.D
Acq On : 16 Jun 2024 01:34 pm
Operator : VOA130:MJV
Sample : l2433035-09,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 09:27:31 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	5.695	78	366	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	6.225	95	118	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.871	92	1978	0.115	ug/L	93
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.722	91	58	N.D.		
81) p/m Xylene	9.921	106	135	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.359	146	48	N.D.		
106) 1,4-Dichlorobenzene	12.359	146	48	N.D.		
109) 1,2-Dichlorobenzene	0.000		0	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

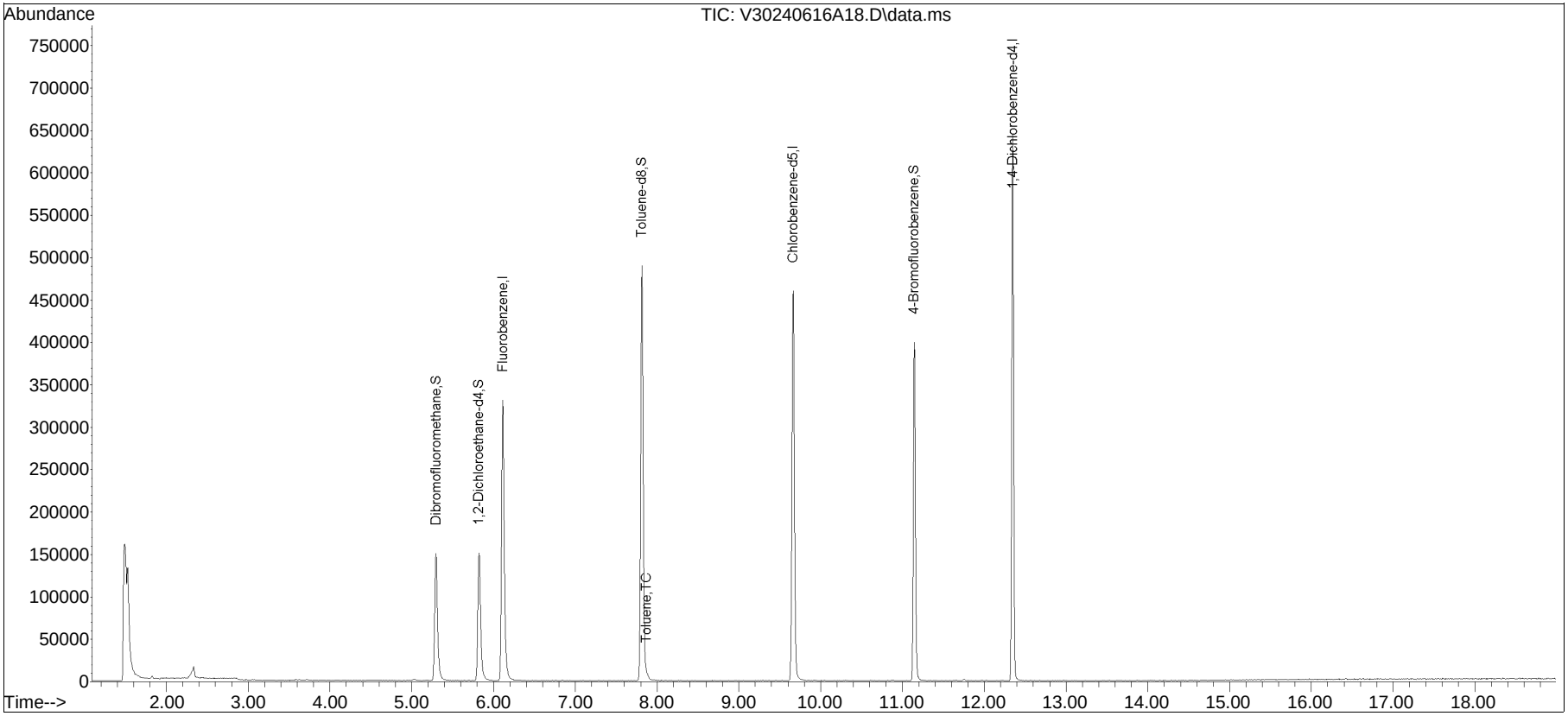
(#) = qualifier out of range (m) = manual integration (+) = signals summed

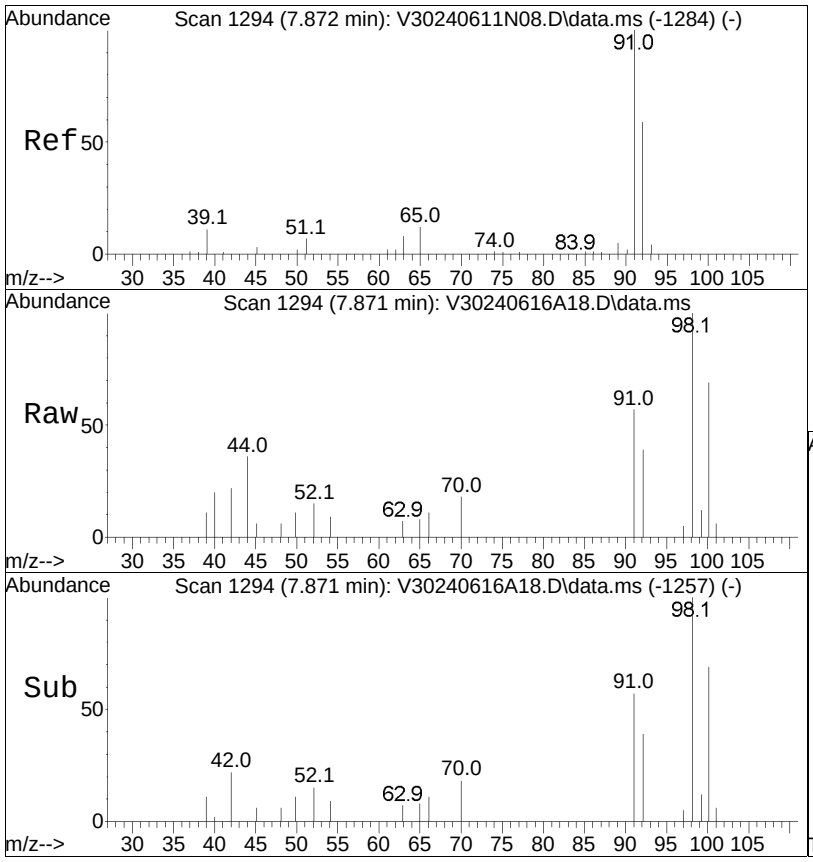
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A18.D
Acq On : 16 Jun 2024 01:34 pm
Operator : VOA130:MJV
Sample : l2433035-09,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 09:27:31 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

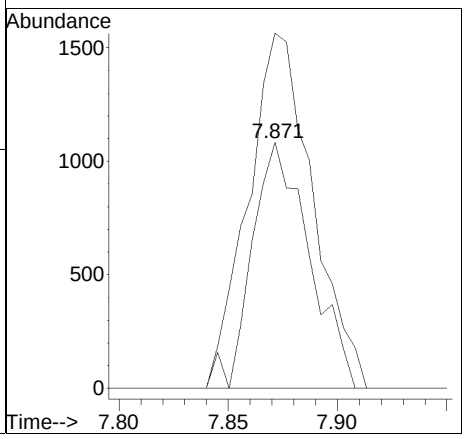




#65
Toluene
Concen: 0.12 ug/L
RT: 7.871 min Scan# 1294
Delta R.T. -0.006 min
Lab File: V30240616A18.D
Acq: 16 Jun 2024 01:34 pm

Tgt Ion: 92 Resp: 1978

Ion	Ratio	Lower	Upper
92	100		
91	162.8	137.5	206.3



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A18.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 1:34 pm	Instrument	: VOA130
Sample	: l2433035-09,31,10,10,,a	Quant Date	: 6/18/2024 9:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A19.D
Acq On : 16 Jun 2024 01:56 pm
Operator : VOA130:MJV
Sample : l2433035-10,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 09:27:50 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	336308	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 74.29%			
63) Chlorobenzene-d5	9.665	117	282576	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 84.82%			
84) 1,4-Dichlorobenzene-d4	12.349	152	145227	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 79.93%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	110531	11.677	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.77%			
47) 1,2-Dichloroethane-d4	5.822	65	132123	11.589	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.89%			
64) Toluene-d8	7.814	98	371475	9.765	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.65%			
88) 4-Bromofluorobenzene	11.143	95	146235	10.822	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.874	50	284	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.053	76	639	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.593	84	325	N.D.		
17) Acetone	3.620	43	505	Below Cal #		50
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.119	83	2388	0.194	ug/L #	89
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A19.D
Acq On : 16 Jun 2024 01:56 pm
Operator : VOA130:MJV
Sample : l2433035-10,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 09:27:50 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	0.000		0		N.D.	
45)	Benzene	5.696	78	298		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	6.204	95	103		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	7.872	92	142		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	0.000		0		N.D.	
79)	Ethylbenzene	9.733	91	64		N.D.	
81)	p/m Xylene	0.000		0		N.D.	
82)	o Xylene	0.000		0		N.D.	
83)	Styrene	0.000		0		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	0.000		0		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	0.000		0		N.D.	
106)	1,4-Dichlorobenzene	0.000		0		N.D.	
109)	1,2-Dichlorobenzene	0.000		0		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
116)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

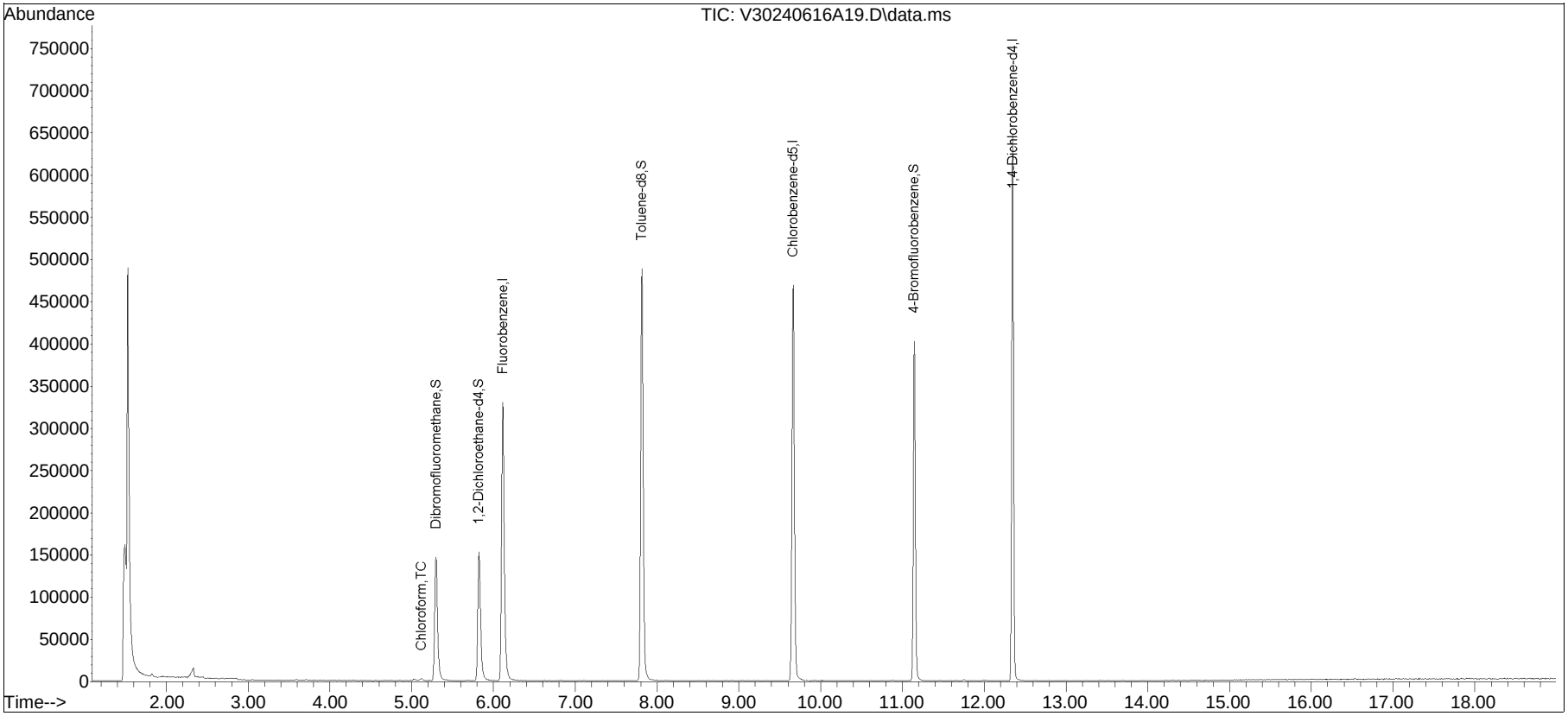
(#) = qualifier out of range (m) = manual integration (+) = signals summed

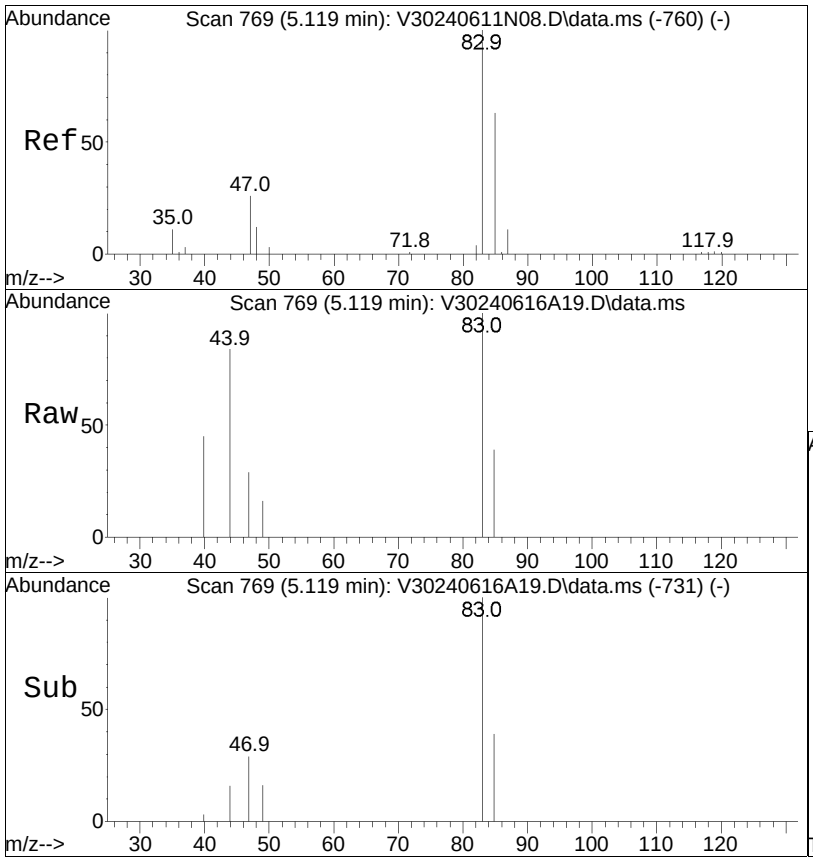
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A19.D
Acq On : 16 Jun 2024 01:56 pm
Operator : VOA130:MJV
Sample : l2433035-10,31,10,10,,a
Misc : WG1935824,ICAL21186
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 09:27:50 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

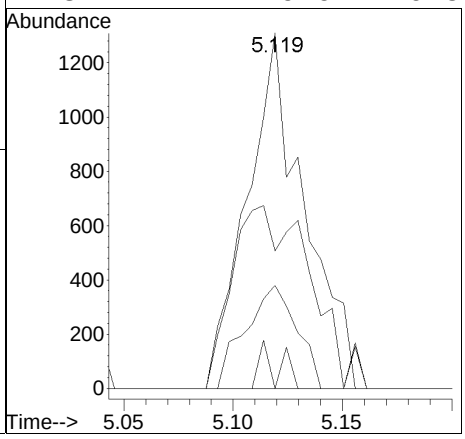




#35
Chloroform
Concen: 0.19 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240616A19.D
Acq: 16 Jun 2024 01:56 pm

Tgt Ion: 83 Resp: 2388

Ion	Ratio	Lower	Upper
83	100		
85	69.8	41.4	86.0
47	26.1	20.5	42.5
48	4.4	9.9	20.5#



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A19.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 1:56 pm	Instrument	: VOA130
Sample	: l2433035-10,31,10,10,,a	Quant Date	: 6/18/2024 9:14 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21186**
Calibration dates	**: 06/11/24 13:09 06/11/24 16:27**		

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I	Fluorobenzene	ISTD									
2) TP	Dichlorodifluo		0.238	0.278	0.199	0.196	0.176	0.217	0.188	0.213	16.46
3) TP	Chloromethane		0.299	0.347	0.277	0.249	0.237	0.249	0.216	0.268	16.42
4) TC	Vinyl chloride	0.235	0.261	0.303	0.234	0.223	0.213	0.245	0.215	0.241	12.21
5) TP	Bromomethane		0.118	0.131	0.110	0.108	0.117	0.130	0.119	0.119	7.46
6) TP	Chloroethane		0.181	0.192	0.152	0.141	0.136	0.146	0.121	0.153	16.55
7) TP	Trichlorofluor		0.296	0.347	0.256	0.251	0.228	0.275	0.242	0.271	14.80
8) TP	Ethyl ether		0.092	0.096	0.084	0.083	0.085	0.088	0.081	0.087	5.94
10) TC	1,1-Dichloroet		0.179	0.214	0.158	0.151	0.145	0.167	0.148	0.166	14.66
11) TP	Carbon disulfide		0.721	0.670	0.510	0.475	0.458	0.513	0.458	0.543	19.70
12) TP	Freon-113		0.170	0.213	0.152	0.152	0.139	0.172	0.153	0.164	14.72
13) TP	Iodomethane			0.107	0.128	0.156	0.179	0.202	0.180	*L	0.9945
14) TP	Acrolein		0.021	0.028	0.025	0.025	0.025	0.024	0.023	0.025	8.20
15) TP	Methylene chlo		0.286	0.279	0.223	0.203	0.195	0.201	0.178	0.224	18.98
17) TP	Acetone			0.064	0.047	0.042	0.040	0.041	0.040	*L	0.9996
18) TP	trans-1,2-Dich		0.201	0.229	0.183	0.167	0.164	0.179	0.160	0.183	13.30
19) TP	Methyl acetate		0.153	0.132	0.106	0.104	0.100	0.101	0.097	0.113	18.40
21) TP	Methyl tert butyl ether		0.292	0.402	0.375	0.413	0.435	0.457	0.422	0.399	13.50
22) TP	tert-Butyl alc		0.009	0.012	0.011	0.011	0.011	0.012	0.012	0.011	8.75
24) TP	Diisopropyl ether		0.573	0.659	0.581	0.608	0.632	0.679	0.602	0.619	6.39
25) TP	1,1-Dichloroet		0.446	0.515	0.423	0.386	0.372	0.389	0.341	0.410	13.93
26) TP	Halothane		0.123	0.150	0.119	0.118	0.115	0.132	0.117	0.125	9.88
27) TP	Acrylonitrile		0.054	0.060	0.057	0.054	0.051	0.051	0.049	0.054	6.88
28) TP	Ethyl tert-but		0.429	0.497	0.467	0.498	0.535	0.578	0.525	0.504	9.56
29) TP	Vinyl acetate		0.317	0.345	0.335	0.391	0.413	0.363	0.342	0.358	9.39
30) TP	cis-1,2-Dichlo		0.230	0.260	0.210	0.196	0.192	0.202	0.180	0.210	12.81
31) TP	2,2-Dichloropr		0.285	0.343	0.279	0.266	0.257	0.284	0.247	0.280	11.09
33) TP	Bromochloromet		0.100	0.112	0.093	0.085	0.084	0.087	0.078	0.091#	12.52
34) TP	Cyclohexane		0.301	0.380	0.300	0.339	0.316	0.380	0.334	0.336	9.99
35) TC	Chloroform		0.408	0.453	0.381	0.344	0.331	0.344	0.303	0.366	13.96
36) TP	Ethyl acetate		0.100	0.137	0.131	0.142	0.145	0.149	0.142	0.135	12.31
37) TP	Carbon tetrachloride	0.145	0.222	0.270	0.216	0.219	0.216	0.251	0.223	0.220	16.42
38) TP	Tetrahydrofuran			0.047	0.042	0.044	0.043	0.043	0.041	0.043	4.40
39) S	Dibromofluoromethane	0.312	0.308	0.299	0.290	0.275	0.263	0.253	0.252	0.281	8.62
40) TP	1,1,1-Trichlor		0.254	0.342	0.274	0.271	0.258	0.292	0.257	0.278	11.10
42) TP	2-Butanone			0.062	0.054	0.062	0.063	0.066	0.064	0.062	6.60

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21186**
Calibration dates	**: 06/11/24 13:09 06/11/24 16:27**		

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.208	0.261	0.225	0.239	0.240	0.278	0.246	0.242	9.46
45) TP	Benzene	0.666	0.705	0.862	0.740	0.724	0.734	0.789	0.693	0.739	8.30
46) TP	Tertiary-Amyl Methyl Ether		0.368	0.405	0.366	0.396	0.417	0.458	0.424	0.405	7.96
47) S	1,2-Dichloroethane-d4	0.353	0.363	0.360	0.367	0.336	0.324	0.300	0.309	0.339	7.62
48) TP	1,2-Dichloroet		0.281	0.307	0.259	0.249	0.242	0.244	0.218	0.257	11.27
51) TP	Methyl cyclohe		0.233	0.294	0.233	0.263	0.255	0.320	0.291	0.270	12.16
52) TP	Trichloroethene	0.172	0.161	0.195	0.167	0.171	0.176	0.201	0.180	0.178#	7.77
54) TP	Dibromomethane		0.114	0.122	0.111	0.106	0.104	0.107	0.099	0.109	6.80
55) TC	1,2-Dichloropr		0.174	0.223	0.201	0.208	0.215	0.226	0.200	0.207	8.55
57) TP	2-Chloroethyl		0.066	0.080	0.078	0.090	0.100	0.104	0.098	0.088	15.74
58) TP	Bromodichlorom		0.234	0.294	0.255	0.260	0.265	0.275	0.244	0.261#	7.53
61) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	4.85
62) TP	cis-1,3-Dichloropropene	0.206	0.208	0.270	0.263	0.288	0.309	0.327	0.294	0.271#	16.33
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.333	1.334	1.358	1.340	1.364	1.353	1.360	1.328	1.346	1.05
65) TC	Toluene		0.590	0.701	0.592	0.582	0.587	0.650	0.564	0.609	7.98
66) TP	4-Methyl-2-pen		0.041	0.054	0.055	0.062	0.065	0.071	0.066	0.059	17.05
67) TP	Tetrachloroethene		0.182	0.219	0.186	0.195	0.194	0.236	0.209	0.203	9.55
69) TP	trans-1,3-Dichloropropene	0.186	0.252	0.297	0.289	0.336	0.368	0.401		*Q	0.9998
71) TP	Ethyl methacry		0.145	0.212	0.212	0.236	0.243	0.259	0.232	0.220	16.86
72) TP	1,1,2-Trichlor		0.127	0.150	0.151	0.164	0.175	0.187	0.169	0.160#	12.29
73) TP	Chlorodibromom		0.159	0.197	0.186	0.208	0.230	0.250	0.228	0.208	14.78
74) TP	1,3-Dichloropr		0.300	0.334	0.320	0.354	0.373	0.396	0.355	0.348	9.33
75) TP	1,2-Dibromoethane		0.148	0.168	0.159	0.173	0.184	0.197	0.181	0.173#	9.61
77) TP	2-Hexanone			0.091	0.100	0.113	0.117	0.125	0.117	0.111	11.34
78) T	Chlorobenzene		0.636	0.714	0.612	0.599	0.609	0.662	0.578	0.630	7.30
79) TC	Ethylbenzene		1.057	1.298	1.131	1.141	1.127	1.236	1.052	1.149	7.83
80) T	1,1,1,2-Tetrac		0.171	0.198	0.176	0.194	0.209	0.235	0.210	0.199	11.02
81) TP	p/m Xylene		0.378	0.483	0.441	0.440	0.436	0.477	0.410	0.438	8.32
82) TP	o Xylene		0.363	0.454	0.423	0.425	0.427	0.461	0.393	0.421	8.08
83) TP	Styrene		0.551	0.733	0.719	0.728	0.729	0.769	0.647	0.697	10.60
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.183	0.209	0.187	0.202	0.217	0.239	0.225	0.209	9.62
87) TP	Isopropylbenzene		1.599	2.196	1.912	1.941	1.887	2.107	1.808	1.921	10.17
88) S	4-Bromofluorobenzene	0.963	0.962	0.966	0.947	0.935	0.908	0.887	0.876	0.930	3.85
89) TP	Bromobenzene		0.463	0.516	0.445	0.435	0.437	0.474	0.418	0.455	7.16

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA130**	**Ical Ref**	**: ICAL21186**
Calibration dates	**: 06/11/24 13:09 06/11/24 16:27**		

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		2.196	2.796	2.454	2.475	2.398	2.636	2.219	2.453	8.74
91) TP	1,4-Dichlorobu		0.617	0.679	0.589	0.577	0.571	0.596	0.542	0.596	7.27
92) TP	1,1,2,2-Tetrac		0.475	0.474	0.413	0.412	0.411	0.422	0.394	0.429	7.51
93) TP	4-Ethyltoluene		1.561	2.074	1.870	1.928	1.916	2.114	1.809	1.896	9.66
94) TP	2-Chlorotoluene		1.431	1.775	1.500	1.455	1.398	1.508	1.298	1.481	9.98
95) TP	1,3,5-Trimethy		1.426	1.825	1.633	1.663	1.675	1.874	1.615	1.673	8.79
96) TP	1,2,3-Trichlor		0.371	0.387	0.321	0.334	0.324	0.350	0.326	0.345	7.43
97) TP	trans-1,4-Dich		0.115	0.125	0.111	0.110	0.111	0.120	0.112	0.115	5.01
98) TP	4-Chlorotoluene		1.474	1.747	1.539	1.534	1.522	1.635	1.401	1.550	7.24
99) TP	tert-Butylbenzene		1.176	1.513	1.317	1.367	1.345	1.512	1.324	1.365	8.65
102) TP	1,2,4-Trimethy		1.275	1.753	1.621	1.646	1.692	1.864	1.607	1.637	11.18
103) TP	sec-Butylbenzene		1.682	2.278	1.997	2.081	2.025	2.297	1.957	2.045	10.20
104) TP	p-Isopropyltol		1.314	1.781	1.633	1.730	1.732	1.979	1.701	1.696	11.79
105) TP	1,3-Dichlorobe		0.894	1.060	0.896	0.886	0.904	0.985	0.864	0.927	7.54
106) TP	1,4-Dichlorobe		1.012	1.073	0.901	0.899	0.913	0.997	0.876	0.953	7.78
107) TP	p-Diethylbenzene		0.796	0.982	0.911	0.986	1.026	1.190	1.040	0.990	12.21
108) TP	n-Butylbenzene		1.339	1.703	1.526	1.618	1.612	1.842	1.567	1.601	9.69
109) TP	1,2-Dichlorobe		0.865	0.975	0.857	0.852	0.874	0.944	0.826	0.885	6.10
110) TP	1,2,4,5-Tetram		1.108	1.404	1.425	1.560	1.640	1.825	1.569	1.504	14.91
111) TP	1,2-Dibromo-3-		0.046	0.061	0.054	0.059	0.061	0.066	0.062	0.058	11.18
112) TP	1,3,5-Trichlor		0.567	0.685	0.587	0.601	0.634	0.708	0.625	0.630	8.17
113) TP	Hexachlorobuta		0.168	0.213	0.175	0.190	0.195	0.232	0.209	0.197	11.37
114) TP	1,2,4-Trichlor		0.492	0.571	0.530	0.561	0.598	0.652	0.580	0.569	8.89
115) TP	Naphthalene		1.007	1.193	1.226	1.340	1.400	1.456	1.310	1.276	11.75
116) TP	1,2,3-Trichlor		0.469	0.531	0.503	0.524	0.544	0.590	0.529	0.527	6.99

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240611NICAL\
Method File : V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.238	0.278	0.199	0.196	0.176	0.217	0.188	0.213	16.46
3)	TP	Chloromethane		0.299	0.347	0.277	0.249	0.237	0.249	0.216	0.268	16.42
4)	TC	Vinyl chloride	0.235	0.261	0.303	0.234	0.223	0.213	0.245	0.215	0.241	12.21
5)	TP	Bromomethane		0.118	0.131	0.110	0.108	0.117	0.130	0.119	0.119	7.46
6)	TP	Chloroethane		0.181	0.192	0.152	0.141	0.136	0.146	0.121	0.153	16.55
7)	TP	Trichlorofluor...		0.296	0.347	0.256	0.251	0.228	0.275	0.242	0.271	14.80
8)	TP	Ethyl ether		0.092	0.096	0.084	0.083	0.085	0.088	0.081	0.087	5.94
10)	TC	1,1-Dichloroet...		0.179	0.214	0.158	0.151	0.145	0.167	0.148	0.166	14.66
11)	TP	Carbon disulfide		0.721	0.670	0.510	0.475	0.458	0.513	0.458	0.543	19.70
12)	TP	Freon-113		0.170	0.213	0.152	0.152	0.139	0.172	0.153	0.164	14.72
13)	TP	Iodomethane			0.107	0.128	0.156	0.179	0.202	0.180	*L	0.9945
14)	TP	Acrolein		0.021	0.028	0.025	0.025	0.025	0.024	0.023	0.025	8.20
15)	TP	Methylene chlo...		0.286	0.279	0.223	0.203	0.195	0.201	0.178	0.224	18.98
17)	TP	Acetone			0.064	0.047	0.042	0.040	0.041	0.040	*L	0.9996
18)	TP	trans-1,2-Dich...		0.201	0.229	0.183	0.167	0.164	0.179	0.160	0.183	13.30
19)	TP	Methyl acetate		0.153	0.132	0.106	0.104	0.100	0.101	0.097	0.113	18.40
21)	TP	Methyl tert-bu...		0.292	0.402	0.375	0.413	0.435	0.457	0.422	0.399	13.50
22)	TP	tert-Butyl alc...		0.009	0.012	0.011	0.011	0.011	0.012	0.012	0.011	8.75
24)	TP	Diisopropyl ether		0.573	0.659	0.581	0.608	0.632	0.679	0.602	0.619	6.39
25)	TP	1,1-Dichloroet...		0.446	0.515	0.423	0.386	0.372	0.389	0.341	0.410	13.93
26)	TP	Halothane		0.123	0.150	0.119	0.118	0.115	0.132	0.117	0.125	9.88
27)	TP	Acrylonitrile		0.054	0.060	0.057	0.054	0.051	0.051	0.049	0.054	6.88
28)	TP	Ethyl tert-but...		0.429	0.497	0.467	0.498	0.535	0.578	0.525	0.504	9.56
29)	TP	Vinyl acetate		0.317	0.345	0.335	0.391	0.413	0.363	0.342	0.358	9.39
30)	TP	cis-1,2-Dichlo...		0.230	0.260	0.210	0.196	0.192	0.202	0.180	0.210	12.81
31)	TP	2,2-Dichloropr...		0.285	0.343	0.279	0.266	0.257	0.284	0.247	0.280	11.09
33)	TP	Bromochloromet...		0.100	0.112	0.093	0.085	0.084	0.087	0.078	0.091#	12.52
34)	TP	Cyclohexane		0.301	0.380	0.300	0.339	0.316	0.380	0.334	0.336	9.99
35)	TC	Chloroform		0.408	0.453	0.381	0.344	0.331	0.344	0.303	0.366	13.96
36)	TP	Ethyl acetate		0.100	0.137	0.131	0.142	0.145	0.149	0.142	0.135	12.31

Method Path : K:\VOA130\2024\240611NICAL\
Method File : V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
37)	TP	Carbon tetrach...	0.145	0.222	0.270	0.216	0.219	0.216	0.251	0.223	0.220	16.42
38)	TP	Tetrahydrofuran			0.047	0.042	0.044	0.043	0.043	0.041	0.043	4.40
39)	S	Dibromofluorom...	0.312	0.308	0.299	0.290	0.275	0.263	0.253	0.252	0.281	8.62
40)	TP	1,1,1-Trichlor...		0.254	0.342	0.274	0.271	0.258	0.292	0.257	0.278	11.10
42)	TP	2-Butanone			0.062	0.054	0.062	0.063	0.066	0.064	0.062	6.60
43)	TP	1,1-Dichloropr...		0.208	0.261	0.225	0.239	0.240	0.278	0.246	0.242	9.46
45)	TP	Benzene	0.666	0.705	0.862	0.740	0.724	0.734	0.789	0.693	0.739	8.30
46)	TP	tert-Amyl meth...		0.368	0.405	0.366	0.396	0.417	0.458	0.424	0.405	7.96
47)	S	1,2-Dichloroet...	0.353	0.363	0.360	0.367	0.336	0.324	0.300	0.309	0.339	7.62
48)	TP	1,2-Dichloroet...		0.281	0.307	0.259	0.249	0.242	0.244	0.218	0.257	11.27
51)	TP	Methyl cyclohe...		0.233	0.294	0.233	0.263	0.255	0.320	0.291	0.270	12.16
52)	TP	Trichloroethene	0.172	0.161	0.195	0.167	0.171	0.176	0.201	0.180	0.178#	7.77
54)	TP	Dibromomethane		0.114	0.122	0.111	0.106	0.104	0.107	0.099	0.109	6.80
55)	TC	1,2-Dichloropr...		0.174	0.223	0.201	0.208	0.215	0.226	0.200	0.207	8.55
57)	TP	2-Chloroethyl ...		0.066	0.080	0.078	0.090	0.100	0.104	0.098	0.088	15.74
58)	TP	Bromodichlorom...		0.234	0.294	0.255	0.260	0.265	0.275	0.244	0.261#	7.53
61)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	4.85
62)	TP	cis-1,3-Dichlo...	0.206	0.208	0.270	0.263	0.288	0.309	0.327	0.294	0.271#	16.33
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.333	1.334	1.358	1.340	1.364	1.353	1.360	1.328	1.346	1.05
65)	TC	Toluene		0.590	0.701	0.592	0.582	0.587	0.650	0.564	0.609	7.98
66)	TP	4-Methyl-2-pen...		0.041	0.054	0.055	0.062	0.065	0.071	0.066	0.059	17.05
67)	TP	Tetrachloroethene		0.182	0.219	0.186	0.195	0.194	0.236	0.209	0.203	9.55
69)	TP	trans-1,3-Dich...	0.186	0.252	0.297	0.289	0.336	0.368	0.401		*Q	0.9998
71)	TP	Ethyl methacry...		0.145	0.212	0.212	0.236	0.243	0.259	0.232	0.220	16.86
72)	TP	1,1,2-Trichlor...		0.127	0.150	0.151	0.164	0.175	0.187	0.169	0.160#	12.29
73)	TP	Chlorodibromom...		0.159	0.197	0.186	0.208	0.230	0.250	0.228	0.208	14.78
74)	TP	1,3-Dichloropr...		0.300	0.334	0.320	0.354	0.373	0.396	0.355	0.348	9.33
75)	TP	1,2-Dibromoethane		0.148	0.168	0.159	0.173	0.184	0.197	0.181	0.173#	9.61
77)	TP	2-Hexanone			0.091	0.100	0.113	0.117	0.125	0.117	0.111	11.34
78)	T	Chlorobenzene		0.636	0.714	0.612	0.599	0.609	0.662	0.578	0.630	7.30

Response Factor Report VOA130

Method Path : K:\VOA130\2024\240611NICAL\
Method File : V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	TC	Ethylbenzene		1.057	1.298	1.131	1.141	1.127	1.236	1.052	1.149	7.83
80)	T	1,1,1,2-Tetrac...		0.171	0.198	0.176	0.194	0.209	0.235	0.210	0.199	11.02
81)	TP	p/m Xylene		0.378	0.483	0.441	0.440	0.436	0.477	0.410	0.438	8.32
82)	TP	o Xylene		0.363	0.454	0.423	0.425	0.427	0.461	0.393	0.421	8.08
83)	TP	Styrene		0.551	0.733	0.719	0.728	0.729	0.769	0.647	0.697	10.60
84)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85)	TP	Bromoform		0.183	0.209	0.187	0.202	0.217	0.239	0.225	0.209	9.62
87)	TP	Isopropylbenzene		1.599	2.196	1.912	1.941	1.887	2.107	1.808	1.921	10.17
88)	S	4-Bromofluorob...	0.963	0.962	0.966	0.947	0.935	0.908	0.887	0.876	0.930	3.85
89)	TP	Bromobenzene		0.463	0.516	0.445	0.435	0.437	0.474	0.418	0.455	7.16
90)	TP	n-Propylbenzene		2.196	2.796	2.454	2.475	2.398	2.636	2.219	2.453	8.74
91)	TP	1,4-Dichlorobu...		0.617	0.679	0.589	0.577	0.571	0.596	0.542	0.596	7.27
92)	TP	1,1,2,2-Tetrac...		0.475	0.474	0.413	0.412	0.411	0.422	0.394	0.429	7.51
93)	TP	4-Ethyltoluene		1.561	2.074	1.870	1.928	1.916	2.114	1.809	1.896	9.66
94)	TP	2-Chlorotoluene		1.431	1.775	1.500	1.455	1.398	1.508	1.298	1.481	9.98
95)	TP	1,3,5-Trimethy...		1.426	1.825	1.633	1.663	1.675	1.874	1.615	1.673	8.79
96)	TP	1,2,3-Trichlor...		0.371	0.387	0.321	0.334	0.324	0.350	0.326	0.345	7.43
97)	TP	trans-1,4-Dich...		0.115	0.125	0.111	0.110	0.111	0.120	0.112	0.115	5.01
98)	TP	4-Chlorotoluene		1.474	1.747	1.539	1.534	1.522	1.635	1.401	1.550	7.24
99)	TP	tert-Butylbenzene		1.176	1.513	1.317	1.367	1.345	1.512	1.324	1.365	8.65
102)	TP	1,2,4-Trimethy...		1.275	1.753	1.621	1.646	1.692	1.864	1.607	1.637	11.18
103)	TP	sec-Butylbenzene		1.682	2.278	1.997	2.081	2.025	2.297	1.957	2.045	10.20
104)	TP	p-Isopropyltol...		1.314	1.781	1.633	1.730	1.732	1.979	1.701	1.696	11.79
105)	TP	1,3-Dichlorobe...		0.894	1.060	0.896	0.886	0.904	0.985	0.864	0.927	7.54
106)	TP	1,4-Dichlorobe...		1.012	1.073	0.901	0.899	0.913	0.997	0.876	0.953	7.78
107)	TP	p-Diethylbenzene		0.796	0.982	0.911	0.986	1.026	1.190	1.040	0.990	12.21
108)	TP	n-Butylbenzene		1.339	1.703	1.526	1.618	1.612	1.842	1.567	1.601	9.69
109)	TP	1,2-Dichlorobe...		0.865	0.975	0.857	0.852	0.874	0.944	0.826	0.885	6.10
110)	TP	1,2,4,5-Tetram...		1.108	1.404	1.425	1.560	1.640	1.825	1.569	1.504	14.91
111)	TP	1,2-Dibromo-3-...		0.046	0.061	0.054	0.059	0.061	0.066	0.062	0.058	11.18
112)	TP	1,3,5-Trichlor...		0.567	0.685	0.587	0.601	0.634	0.708	0.625	0.630	8.17

Method Path : K:\VOA130\2024\240611NICAL\
Method File : V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024
Response Via : Initial Calibration

Calibration Files
L11 =V30240611N03.D L1 =V30240611N04.D L2 =V30240611N06.D L3 =V30240611N08.D L4 =V30240611N09.D
L6 =V30240611N10.D L8 =V30240611N11.D L10 =V30240611N12.D

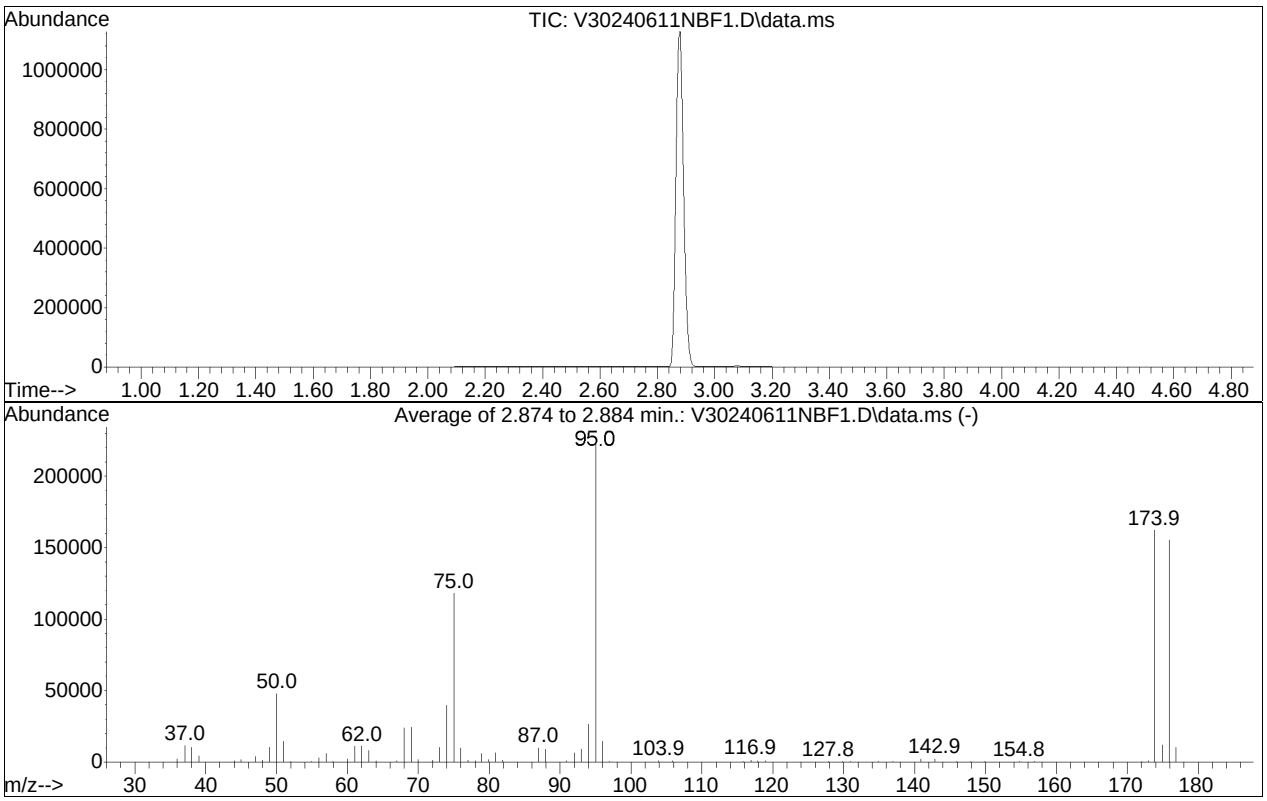
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
113)	TP Hexachlorobuta...	0.168	0.213	0.175	0.190	0.195	0.232	0.209	0.197	11.37	
114)	TP 1,2,4-Trichlor...	0.492	0.571	0.530	0.561	0.598	0.652	0.580	0.569	8.89	
115)	TP Naphthalene	1.007	1.193	1.226	1.340	1.400	1.456	1.310	1.276	11.75	
116)	TP 1,2,3-Trichlor...	0.469	0.531	0.503	0.524	0.544	0.590	0.529	0.527	6.99	

(#) = Out of Range

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611NBF1.D
Acq On : 11 Jun 2024 12:12 pm
Operator : VOA130:PID
Sample : WG1933246-1
Misc : WG1933246
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024



AutoFind: Scans 150, 151, 152; Background Corrected with Scan 141

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	47797	PASS
75	95	30	60	53.0	118400	PASS
95	95	100	100	100.0	223467	PASS
96	95	5	9	6.5	14421	PASS
173	174	0.00	2	0.5	844	PASS
174	95	50	100	72.6	162219	PASS
175	174	5	9	7.6	12250	PASS
176	174	95	101	95.7	155307	PASS
177	176	5	9	6.7	10452	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N03.D
Acq On : 11 Jun 2024 01:09 pm
Operator : VOA130:MKS
Sample : I8260STD0.19PPB
Misc : WG1933246
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 10:06:15 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-L11_MCP - L11 MCP

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	427101	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 94.84%			
63) Chlorobenzene-d5	9.665	117	341203	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 99.74%			
84) 1,4-Dichlorobenzene-d4	12.349	152	179948	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 95.51%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	133122	10.746	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.46%			
47) 1,2-Dichloroethane-d4	5.827	65	150678	9.609	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.09%			
64) Toluene-d8	7.814	98	454791	9.946	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.46%			
88) 4-Bromofluorobenzene	11.143	95	173250	10.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.63%			
Target Compounds						Qvalue
4) Vinyl chloride	1.947	62	1911	0.191	ug/L	95
37) Carbon tetrachloride	5.266	117	1175	0.127	ug/L #	78
45) Benzene	5.691	78	5406	0.171	ug/L #	84
52) Trichloroethene	6.299	95	1393	0.195	ug/L	90
62) cis-1,3-Dichloropropene	7.620	75	1675	0.149	ug/L	92
69) trans-1,3-Dichloropropene	8.359	75	1205	0.122	ug/L	91

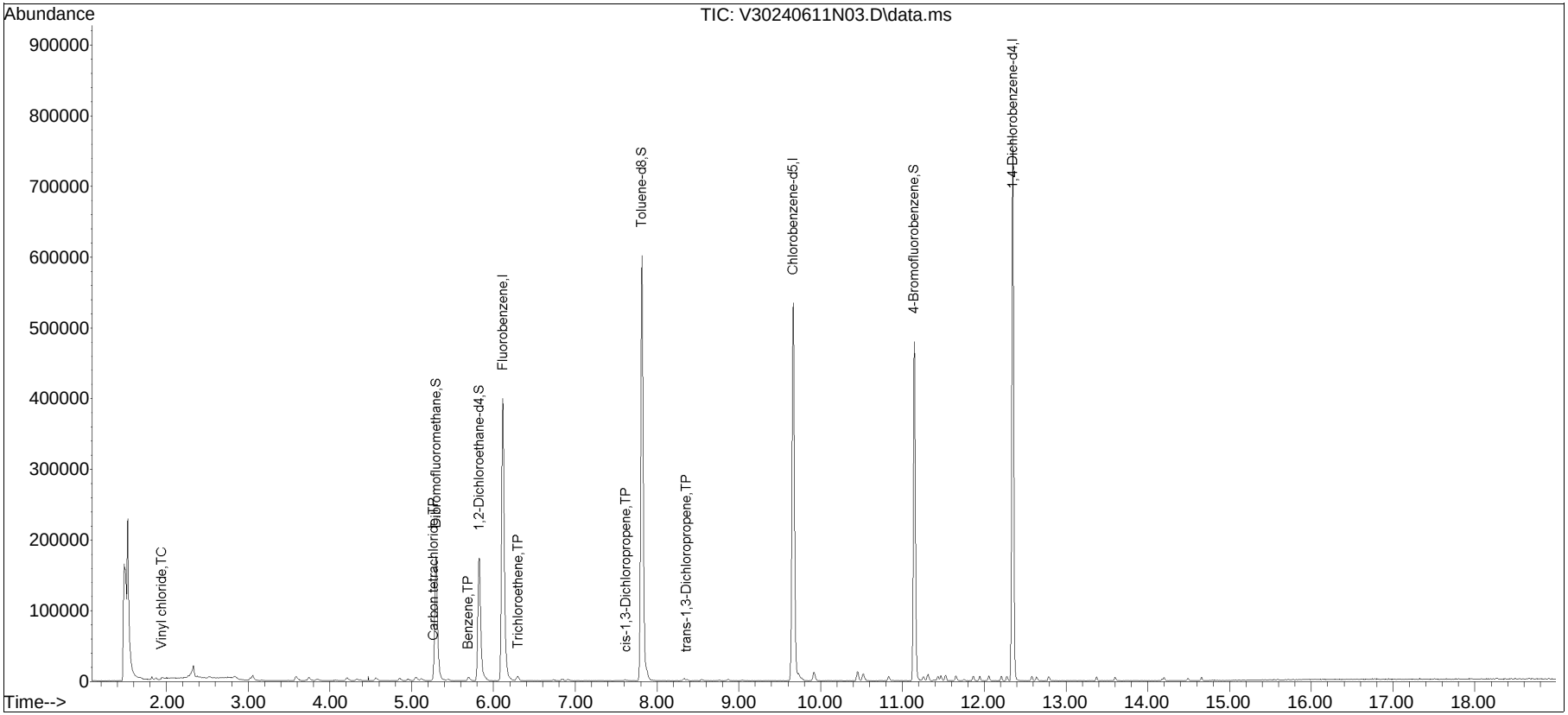
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N03.D
Acq On : 11 Jun 2024 01:09 pm
Operator : VOA130:MKS
Sample : I8260STD0.19PPB
Misc : WG1933246
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 10:06:15 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

Sub List : 8260-L11_MCP - L11 MCP611NICAL\V30240611N08.D•



Manual Integration Report

Data Path	: K:\VOA130\2024\240611NICALQ	Method	: V130_240611N_8260D.m
Data File	: V30240611N03.D	Operator	: VOA130:MKS
Date Inj'd	: 6/11/2024 1:09 pm	Instrument	: VOA130
Sample	: I8260STD0.19PPB	Quant Date	: 6/12/2024 10:03 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N04.D
Acq On : 11 Jun 2024 01:31 pm
Operator : VOA130:MKS
Sample : I8260STD0.5PPB
Misc : WG1933246
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 10:07:01 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	409158	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery =	90.86%		
63) Chlorobenzene-d5	9.665	117	324689	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery =	94.91%		
84) 1,4-Dichlorobenzene-d4	12.349	152	173081	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery =	91.86%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	126126	10.627	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.27%		
47) 1,2-Dichloroethane-d4	5.827	65	148574	9.890	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.90%		
64) Toluene-d8	7.814	98	433104	9.953	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.53%		
88) 4-Bromofluorobenzene	11.143	95	166553	10.158	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.58%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.679	85	4868	0.598	ug/L	87
3) Chloromethane	1.873	50	6119	0.540	ug/L #	95
4) Vinyl chloride	1.947	62	5349	0.559	ug/L	98
5) Bromomethane	2.267	94	2422	0.538	ug/L	88
6) Chloroethane	2.382	64	3704M1	0.596	ug/L	
7) Trichlorofluoromethane	2.529	101	6049	0.576	ug/L	87
8) Ethyl ether	2.838	74	1879	0.545	ug/L #	82
10) 1,1-Dichloroethene	3.032	96	3652	0.565	ug/L	88
11) Carbon disulfide	3.058	76	14749	0.707	ug/L	99
12) Freon-113	3.069	101	3479	0.560	ug/L	98
13) Iodomethane	3.168	142	1542	0.295	ug/L #	92
14) Acrolein	3.341	56	433	0.420	ug/L	93
15) Methylene chloride	3.588	84	5857	0.641	ug/L	96
17) Acetone	3.619	43	2334	1.201	ug/L #	89
18) trans-1,2-Dichloroethene	3.745	96	4115	0.549	ug/L	97
19) Methyl acetate	3.750	43	3129	0.720	ug/L #	77
21) Methyl tert-butyl ether	3.840	73	5970	0.389	ug/L #	88
22) tert-Butyl alcohol	3.934	59	960	2.195	ug/L #	25
24) Diisopropyl ether	4.212	45	11717	0.493	ug/L	96
25) 1,1-Dichloroethane	4.327	63	9125	0.527	ug/L	95
26) Halothane	4.385	117	2509	0.515	ug/L #	75

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N04.D
Acq On : 11 Jun 2024 01:31 pm
Operator : VOA130:MKS
Sample : I8260STD0.5PPB
Misc : WG1933246
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 10:07:01 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	1108	0.475	ug/L		93
28) Ethyl tert-butyl ether	4.563	59	8774	0.459	ug/L		93
29) Vinyl acetate	4.568	43	6484	0.473	ug/L	#	95
30) cis-1,2-Dichloroethene	4.851	96	4712	0.548	ug/L		88
31) 2,2-Dichloropropane	4.956	77	5833	0.511	ug/L		93
33) Bromochloromethane	5.045	128	2036	0.533	ug/L		88
34) Cyclohexane	5.056	56	6166	0.502	ug/L		96
35) Chloroform	5.114	83	8339	0.535	ug/L		92
36) Ethyl acetate	5.234	43	2044	0.382	ug/L	#	73
37) Carbon tetrachloride	5.266	117	4545	0.515	ug/L	#	88
38) Tetrahydrofuran	0.000		0	N.D.	d		
40) 1,1,1-Trichloroethane	5.323	97	5199	0.464	ug/L		96
42) 2-Butanone	0.000		0	N.D.	d		
43) 1,1-Dichloropropene	5.454	75	4249	0.462	ug/L		95
45) Benzene	5.696	78	14426	0.477	ug/L		99
46) tert-Amyl methyl ether	5.806	73	7532	0.503	ug/L		90
48) 1,2-Dichloroethane	5.900	62	5750	0.543	ug/L		99
51) Methyl cyclohexane	6.288	83	4768	0.500	ug/L		98
52) Trichloroethene	6.299	95	3293	0.482	ug/L		96
54) Dibromomethane	6.734	93	2331	0.513	ug/L		98
55) 1,2-Dichloropropane	6.839	63	3561	0.434	ug/L		93
57) 2-Chloroethyl vinyl ether	7.541	63	1343	0.418	ug/L	#	83
58) Bromodichloromethane	6.912	83	4786	0.459	ug/L	#	97
61) 1,4-Dioxane	7.116	88	4958	102.852	ug/L		92
62) cis-1,3-Dichloropropene	7.604	75	4252	0.395	ug/L		92
65) Toluene	7.877	92	9577	0.498	ug/L		99
66) 4-Methyl-2-pentanone	8.322	58	666	0.373	ug/L	#	73
67) Tetrachloroethene	8.322	166	2959	0.489	ug/L		96
69) trans-1,3-Dichloropropene	8.359	75	4098	0.436	ug/L	#	85
71) Ethyl methacrylate	8.558	69	2351	0.342	ug/L	#	37
72) 1,1,2-Trichloroethane	8.543	83	2063	0.421	ug/L		91
73) Chlorodibromomethane	8.758	129	2586	0.429	ug/L	#	89
74) 1,3-Dichloropropane	8.868	76	4874	0.469	ug/L		97
75) 1,2-Dibromoethane	9.030	107	2397	0.465	ug/L		93
77) 2-Hexanone	9.334	43	880M1	0.270	ug/L		
78) Chlorobenzene	9.686	112	10320	0.520	ug/L	#	71
79) Ethylbenzene	9.728	91	17152	0.467	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.775	131	2771	0.485	ug/L	#	62
81) p/m Xylene	9.911	106	12270	0.857	ug/L		97
82) o Xylene	10.446	106	11770	0.856	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N04.D
Acq On : 11 Jun 2024 01:31 pm
Operator : VOA130:MKS
Sample : I8260STD0.5PPB
Misc : WG1933246
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 10:07:01 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	17895	0.767	ug/L		98
85) Bromoform	10.530	173	1582	0.488	ug/L		99
87) Isopropylbenzene	10.834	105	13834	0.418	ug/L		98
89) Bromobenzene	11.264	156	4006	0.520	ug/L		99
90) n-Propylbenzene	11.306	91	19005	0.448	ug/L		99
91) 1,4-Dichlorobutane	11.316	55	5339	0.523	ug/L		96
92) 1,1,2,2-Tetrachloroethane	11.384	83	4107	0.575	ug/L	#	94
93) 4-Ethyltoluene	11.432	105	13506	0.417	ug/L		99
94) 2-Chlorotoluene	11.468	91	12382	0.477	ug/L		92
95) 1,3,5-Trimethylbenzene	11.526	105	12338	0.437	ug/L		100
96) 1,2,3-Trichloropropane	11.526	75	3210	0.578	ug/L		98
97) trans-1,4-Dichloro-2-b...	11.578	53	996	0.519	ug/L	#	92
98) 4-Chlorotoluene	11.652	91	12753	0.479	ug/L		96
99) tert-Butylbenzene	11.867	119	10177	0.447	ug/L		100
102) 1,2,4-Trimethylbenzene	11.945	105	11030	0.393	ug/L		98
103) sec-Butylbenzene	12.055	105	14560	0.421	ug/L		97
104) p-Isopropyltoluene	12.208	119	11370	0.402	ug/L		98
105) 1,3-Dichlorobenzene	12.276	146	7736	0.499	ug/L		98
106) 1,4-Dichlorobenzene	12.365	146	8759M3	0.562	ug/L		
107) p-Diethylbenzene	12.585	119	6888	0.437	ug/L		98
108) n-Butylbenzene	12.637	91	11586	0.439	ug/L		94
109) 1,2-Dichlorobenzene	12.784	146	7482	0.504	ug/L		96
110) 1,2,4,5-Tetramethylben...	13.372	119	9590	0.389	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.566	155	397	0.424	ug/L		94
112) 1,3,5-Trichlorobenzene	13.602	180	4906	0.483	ug/L		96
113) Hexachlorobutadiene	14.168	225	1453	0.480	ug/L		90
114) 1,2,4-Trichlorobenzene	14.195	180	4259	0.464	ug/L		98
115) Naphthalene	14.488	128	8713	0.410	ug/L		100
116) 1,2,3-Trichlorobenzene	14.661	180	4063	0.467	ug/L		94

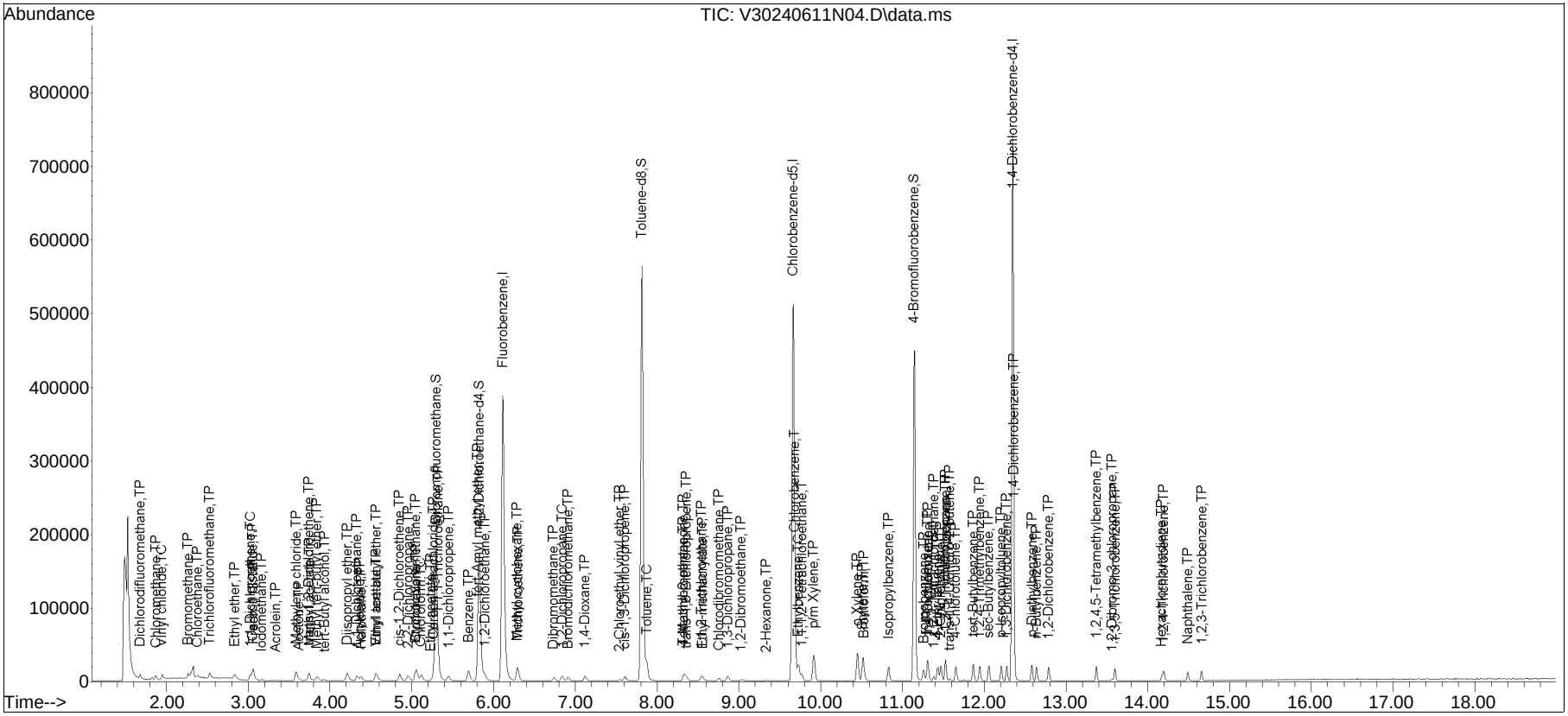
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N04.D
Acq On : 11 Jun 2024 01:31 pm
Operator : VOA130:MKS
Sample : I8260STD0.5PPB
Misc : WG1933246
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 10:07:01 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

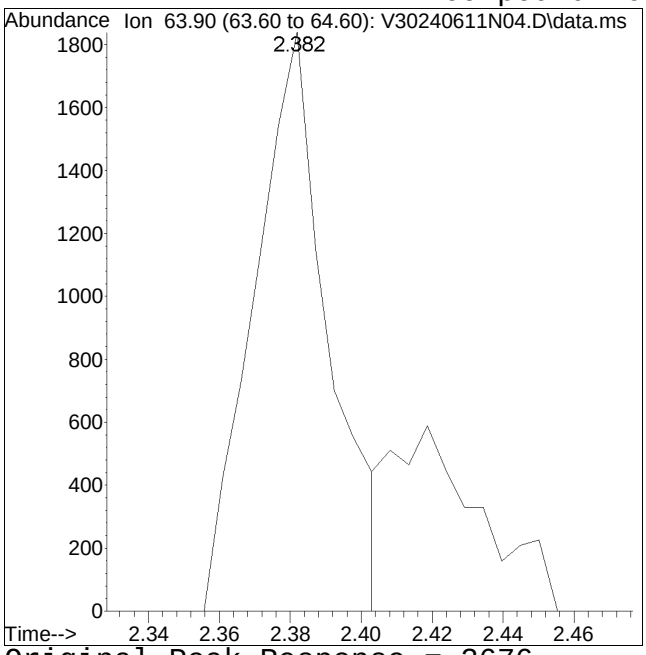
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

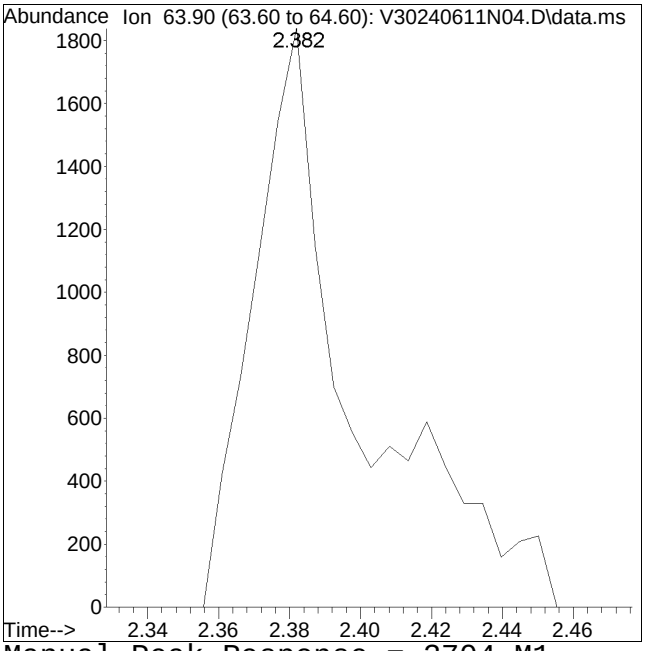


Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N04.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 1:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 6/12/2024 10:04 am

Compound #6: Chloroethane



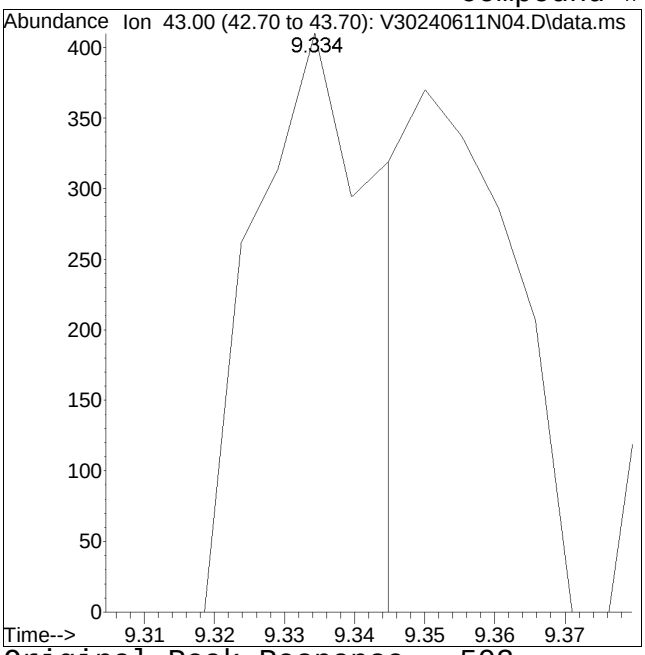


Original Peak Response = 2676 Manual Peak Response = 3704 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

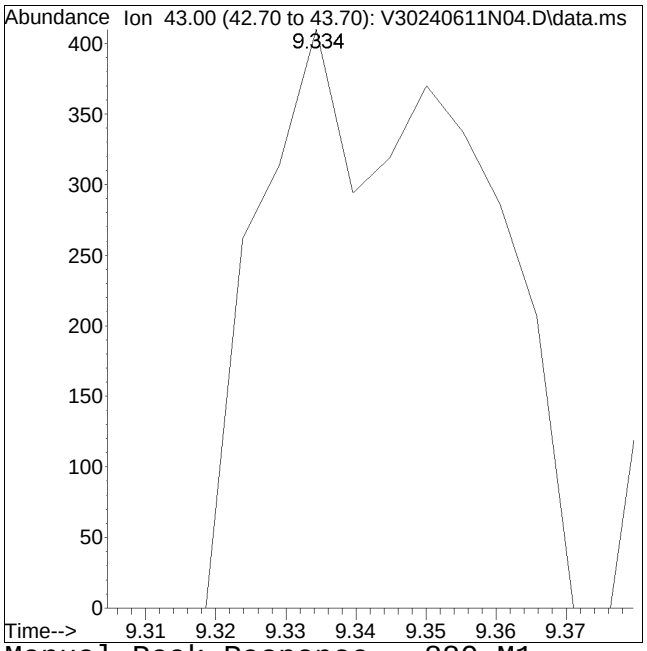
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N04.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 1:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 6/12/2024 10:04 am

Compound #77: 2-Hexanone



Original Peak Response = 503



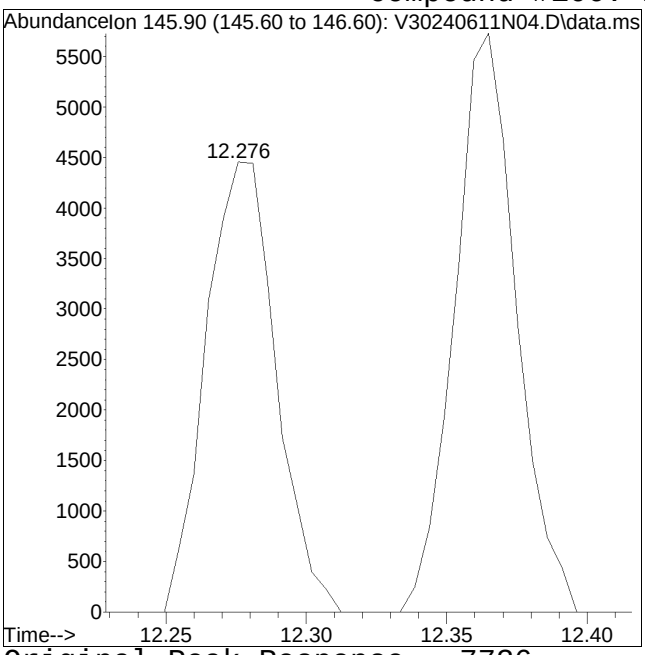
Manual Peak Response = 880 M1

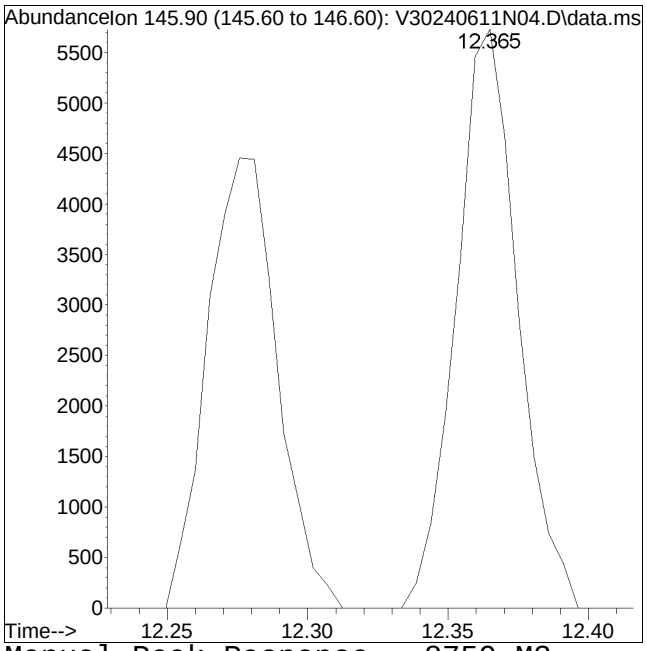
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N04.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 1:31 pm Instrument : VOA130
Sample : I8260STD0.5PPB Quant Date : 6/12/2024 10:04 am

Compound #106: 1,4-Dichlorobenzene





Original Peak Response = 7736 Manual Peak Response = 8759 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N06.D
Acq On : 11 Jun 2024 02:15 pm
Operator : VOA130:MKS
Sample : I8260STD2PPB
Misc : WG1933246
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 10:07:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	423531	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery =	94.05%		
63) Chlorobenzene-d5	9.665	117	328275	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery =	95.96%		
84) 1,4-Dichlorobenzene-d4	12.349	152	177943	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery =	94.44%		
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	126790	10.321	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.21%		
47) 1,2-Dichloroethane-d4	5.827	65	152596	9.813	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.13%		
64) Toluene-d8	7.814	98	445851	10.134	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.34%		
88) 4-Bromofluorobenzene	11.143	95	171833	10.194	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.94%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	23538	2.794	ug/L	98
3) Chloromethane	1.868	50	29366	2.505	ug/L	99
4) Vinyl chloride	1.947	62	25634	2.589	ug/L	100
5) Bromomethane	2.267	94	11081	2.380	ug/L	98
6) Chloroethane	2.382	64	16237	2.525	ug/L	97
7) Trichlorofluoromethane	2.529	101	29384	2.705	ug/L	98
8) Ethyl ether	2.833	74	8100	2.270	ug/L	96
10) 1,1-Dichloroethene	3.027	96	18167	2.714	ug/L	85
11) Carbon disulfide	3.053	76	56729	2.627	ug/L	99
12) Freon-113	3.069	101	18011	2.800	ug/L	100
13) Iodomethane	3.169	142	9069	1.679	ug/L	92
14) Acrolein	3.342	56	2350M1	2.204	ug/L	
15) Methylene chloride	3.583	84	23618	2.495	ug/L	94
17) Acetone	3.625	43	5401	2.686	ug/L	99
18) trans-1,2-Dichloroethene	3.745	96	19356	2.496	ug/L	93
19) Methyl acetate	3.751	43	11157	2.481	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	34092	2.148	ug/L	94
22) tert-Butyl alcohol	3.934	59	5170	11.417	ug/L #	73
24) Diisopropyl ether	4.207	45	55826	2.269	ug/L	99
25) 1,1-Dichloroethane	4.333	63	43587	2.432	ug/L	99
26) Halothane	4.380	117	12694	2.518	ug/L	99

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N06.D
Acq On : 11 Jun 2024 02:15 pm
Operator : VOA130:MKS
Sample : I8260STD2PPB
Misc : WG1933246
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 10:07:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	5063	2.098	ug/L		95
28) Ethyl tert-butyl ether	4.563	59	42116	2.129	ug/L		90
29) Vinyl acetate	4.563	43	29189	2.057	ug/L		98
30) cis-1,2-Dichloroethene	4.852	96	22020	2.472	ug/L		89
31) 2,2-Dichloropropane	4.957	77	29040	2.457	ug/L		92
33) Bromochloromethane	5.051	128	9480	2.395	ug/L		85
34) Cyclohexane	5.061	56	32190	2.534	ug/L		96
35) Chloroform	5.119	83	38403	2.378	ug/L		94
36) Ethyl acetate	5.240	43	11572	2.089	ug/L	#	94
37) Carbon tetrachloride	5.261	117	22862	2.500	ug/L		96
38) Tetrahydrofuran	5.271	42	3957M1	2.227	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	28941	2.497	ug/L		97
42) 2-Butanone	5.413	43	5246M3	2.294	ug/L		
43) 1,1-Dichloropropene	5.449	75	22105	2.322	ug/L		99
45) Benzene	5.696	78	72983	2.330	ug/L		97
46) tert-Amyl methyl ether	5.811	73	34266	2.209	ug/L		92
48) 1,2-Dichloroethane	5.895	62	25980	2.370	ug/L	#	97
51) Methyl cyclohexane	6.288	83	24882	2.520	ug/L		98
52) Trichloroethene	6.294	95	16508	2.334	ug/L		97
54) Dibromomethane	6.734	93	10347	2.202	ug/L		97
55) 1,2-Dichloropropane	6.839	63	18927	2.227	ug/L		99
57) 2-Chloroethyl vinyl ether	7.541	63	6813	2.050	ug/L		91
58) Bromodichloromethane	6.912	83	24869	2.303	ug/L		99
61) 1,4-Dioxane	7.117	88	22309	447.088	ug/L		92
62) cis-1,3-Dichloropropene	7.604	75	22908	2.058	ug/L		90
65) Toluene	7.877	92	46046	2.369	ug/L		100
66) 4-Methyl-2-pentanone	8.307	58	3521	1.951	ug/L		98
67) Tetrachloroethene	8.328	166	14407	2.355	ug/L		98
69) trans-1,3-Dichloropropene	8.354	75	19467	2.049	ug/L	#	86
71) Ethyl methacrylate	8.548	69	13887	1.997	ug/L	#	86
72) 1,1,2-Trichloroethane	8.543	83	9845	1.988	ug/L		94
73) Chlorodibromomethane	8.753	129	12906	2.118	ug/L		96
74) 1,3-Dichloropropane	8.857	76	21952	2.091	ug/L		97
75) 1,2-Dibromoethane	9.030	107	11032	2.118	ug/L		100
77) 2-Hexanone	9.329	43	5974	1.812	ug/L	#	95
78) Chlorobenzene	9.686	112	46910	2.336	ug/L	#	80
79) Ethylbenzene	9.728	91	85191	2.294	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.775	131	12976	2.248	ug/L		96
81) p/m Xylene	9.917	106	63423	4.383	ug/L		96
82) o Xylene	10.451	106	59584	4.288	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N06.D
Acq On : 11 Jun 2024 02:15 pm
Operator : VOA130:MKS
Sample : I8260STD2PPB
Misc : WG1933246
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 10:07:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.514	104	96257	4.078	ug/L	98
85) Bromoform	10.530	173	7455	2.235	ug/L	96
87) Isopropylbenzene	10.829	105	78167	2.297	ug/L	99
89) Bromobenzene	11.259	156	18367	2.318	ug/L	98
90) n-Propylbenzene	11.306	91	99521	2.279	ug/L	99
91) 1,4-Dichlorobutane	11.311	55	24160	2.304	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.385	83	16871	2.296	ug/L	99
93) 4-Ethyltoluene	11.432	105	73825	2.219	ug/L	100
94) 2-Chlorotoluene	11.468	91	63175	2.367	ug/L	93
95) 1,3,5-Trimethylbenzene	11.526	105	64946	2.235	ug/L	100
96) 1,2,3-Trichloropropane	11.521	75	13765	2.409	ug/L	93
97) trans-1,4-Dichloro-2-b...	11.573	53	4455	2.259	ug/L	93
98) 4-Chlorotoluene	11.652	91	62189	2.271	ug/L	99
99) tert-Butylbenzene	11.867	119	53843	2.298	ug/L	97
102) 1,2,4-Trimethylbenzene	11.946	105	62401	2.163	ug/L	99
103) sec-Butylbenzene	12.056	105	81076	2.282	ug/L	96
104) p-Isopropyltoluene	12.208	119	63369	2.181	ug/L	99
105) 1,3-Dichlorobenzene	12.276	146	37724	2.366	ug/L	99
106) 1,4-Dichlorobenzene	12.365	146	38181	2.382	ug/L	96
107) p-Diethylbenzene	12.580	119	34932	2.155	ug/L	99
108) n-Butylbenzene	12.638	91	60607	2.232	ug/L	99
109) 1,2-Dichlorobenzene	12.784	146	34710	2.275	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.372	119	49959	1.971	ug/L	98
111) 1,2-Dibromo-3-chloropr...	13.560	155	2188	2.272	ug/L	98
112) 1,3,5-Trichlorobenzene	13.597	180	24376	2.333	ug/L	98
113) Hexachlorobutadiene	14.174	225	7581	2.437	ug/L	99
114) 1,2,4-Trichlorobenzene	14.195	180	20322	2.155	ug/L	99
115) Naphthalene	14.489	128	42458	1.946	ug/L	100
116) 1,2,3-Trichlorobenzene	14.656	180	18885	2.111	ug/L	98

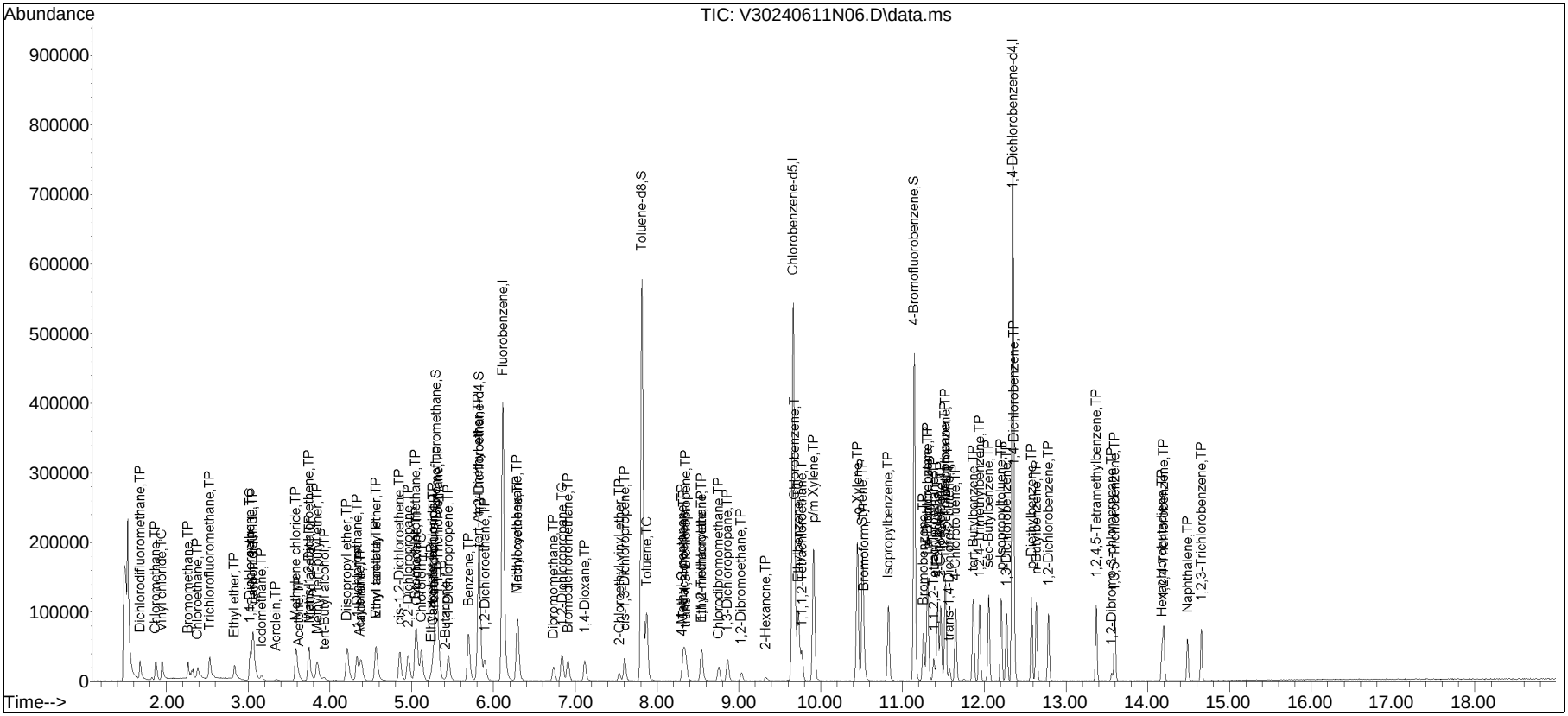
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N06.D
Acq On : 11 Jun 2024 02:15 pm
Operator : VOA130:MKS
Sample : I8260STD2PPB
Misc : WG1933246
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 10:07:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

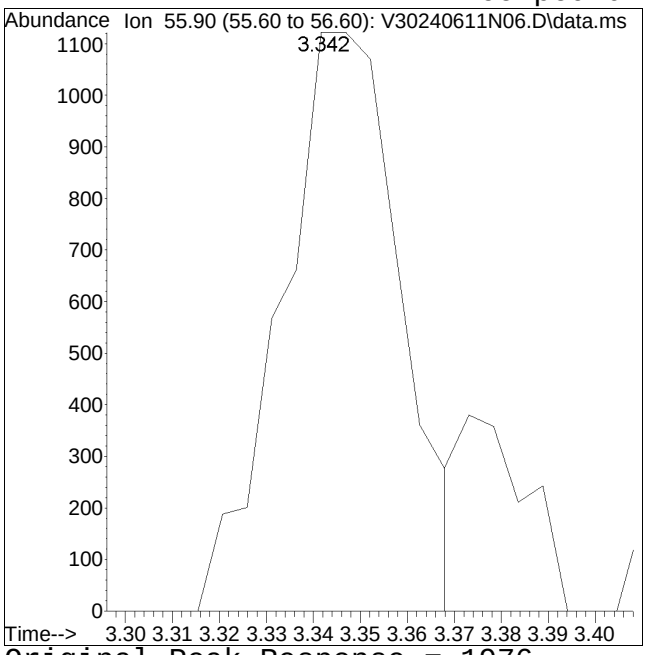


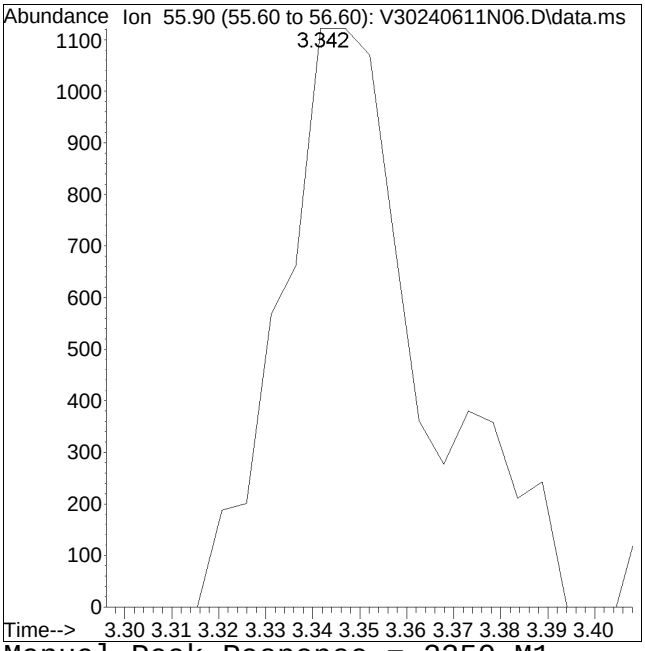
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQ
Data File : V30240611N06.D
Date Inj'd : 6/11/2024 2:15 pm
Sample : I8260STD2PPB

Method : V130_240611N_8260D.m
Operator : VOA130:MKS
Instrument : VOA130
Quant Date : 6/12/2024 10:04 am

Compound #14: Acrolein





Original Peak Response = 1976 Manual Peak Response = 2350 M1

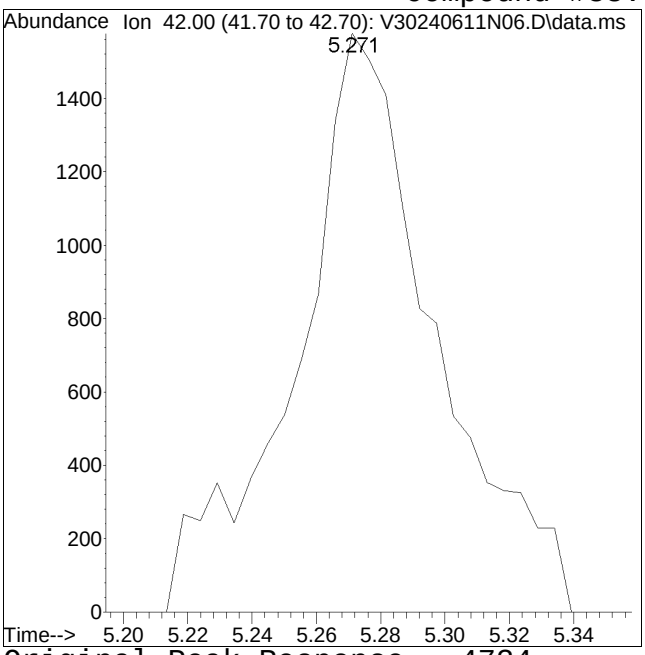
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

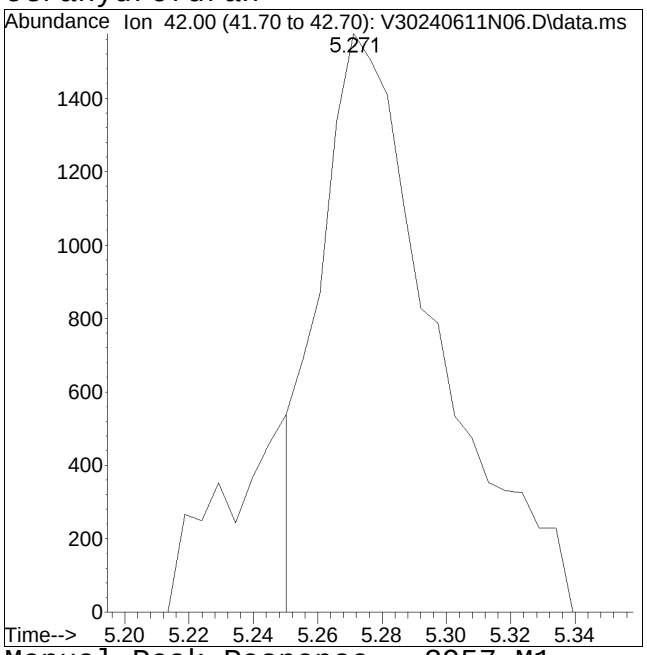
Data Path : K:\VOA130\2024\240611NICALQ
Data File : V30240611N06.D
Date Inj'd : 6/11/2024 2:15 pm
Sample : I8260STD2PPB

Method : V130_240611N_8260D.m
Operator : VOA130:MKS
Instrument : VOA130
Quant Date : 6/12/2024 10:04 am

Compound #38: Tetrahydrofuran



Original Peak Response = 4734



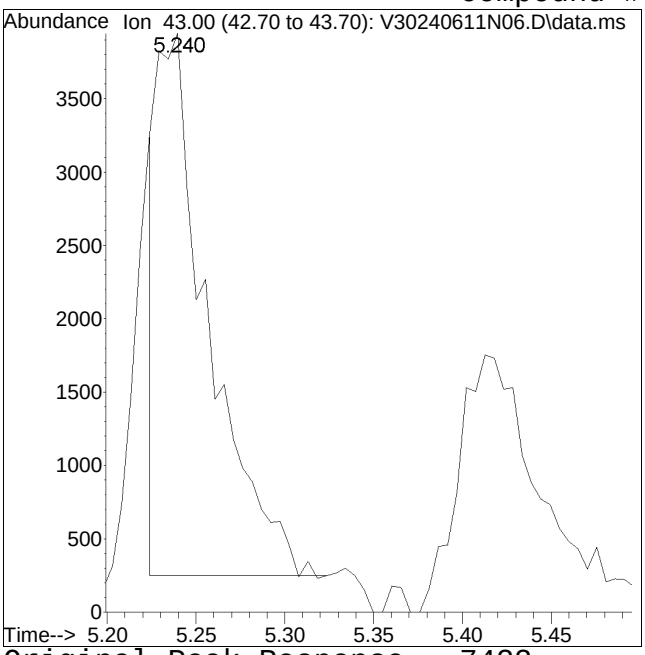
Manual Peak Response = 3957 M1

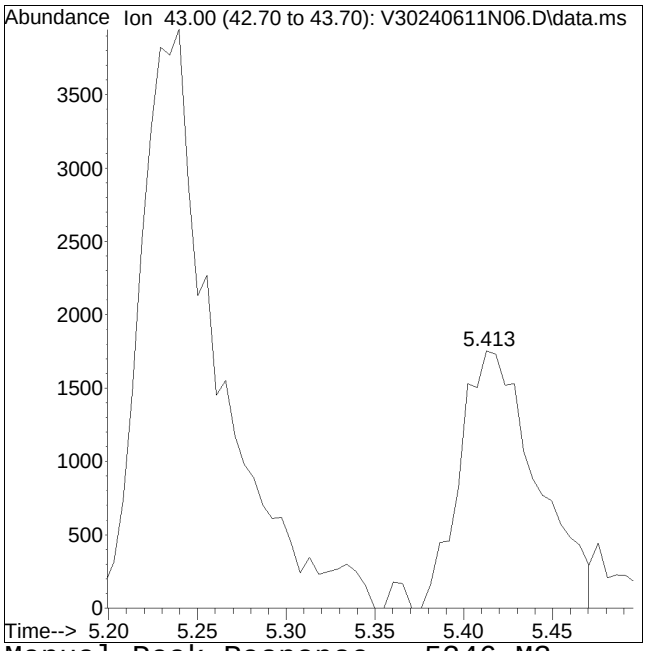
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N06.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 2:15 pm Instrument : VOA130
Sample : I8260STD2PPB Quant Date : 6/12/2024 10:04 am

Compound #42: 2-Butanone





Original Peak Response = 7422 Manual Peak Response = 5246 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N08.D
Acq On : 11 Jun 2024 02:59 pm
Operator : VOA130:MKS
Sample : I8260STD10PPB
Misc : WG1933246
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 10:03:18 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	450315	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 100.00%			
63) Chlorobenzene-d5	9.665	117	342090	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.349	152	188414	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	130618	10.119	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.19%			
47) 1,2-Dichloroethane-d4	5.822	65	165338	11.967	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.67%			
64) Toluene-d8	7.814	98	458459	10.221	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.21%			
88) 4-Bromofluorobenzene	11.143	95	178488	10.437	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	89574	10.671	ug/L	97
3) Chloromethane	1.868	50	124655	14.614	ug/L	99
4) Vinyl chloride	1.947	62	105266	11.715	ug/L	100
5) Bromomethane	2.267	94	49504	9.751	ug/L	97
6) Chloroethane	2.382	64	68368	12.244	ug/L	99
7) Trichlorofluoromethane	2.529	101	115504	10.987	ug/L	100
8) Ethyl ether	2.833	74	37943	9.911	ug/L	96
10) 1,1-Dichloroethene	3.027	96	71184	9.597	ug/L	92
11) Carbon disulfide	3.059	76	229609	11.369	ug/L	100
12) Freon-113	3.069	101	68399	9.335	ug/L	96
13) Iodomethane	3.163	142	57433	5.600	ug/L	92
14) Acrolein	3.342	56	11338	13.917	ug/L	97
15) Methylene chloride	3.588	84	100637	11.777	ug/L	94
17) Acetone	3.620	43	21381	12.292	ug/L	91
18) trans-1,2-Dichloroethene	3.745	96	82448	10.360	ug/L	93
19) Methyl acetate	3.745	43	47812	12.450	ug/L #	94
21) Methyl tert-butyl ether	3.845	73	168749	9.492	ug/L	94
22) tert-Butyl alcohol	3.929	59	24073	45.499	ug/L #	70
24) Diisopropyl ether	4.207	45	261631	12.385	ug/L	98
25) 1,1-Dichloroethane	4.333	63	190579	12.730	ug/L	99
26) Halothane	4.380	117	53597	8.805	ug/L	98

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N08.D
Acq On : 11 Jun 2024 02:59 pm
Operator : VOA130:MKS
Sample : I8260STD10PPB
Misc : WG1933246
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 10:03:18 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.369	53	25660	12.656	ug/L		93
28) Ethyl tert-butyl ether	4.558	59	210289	10.368	ug/L		92
29) Vinyl acetate	4.563	43	150850	13.205	ug/L		97
30) cis-1,2-Dichloroethene	4.852	96	94700	10.269	ug/L		93
31) 2,2-Dichloropropane	4.957	77	125659	10.447	ug/L		88
33) Bromochloromethane	5.046	128	42078	10.002	ug/L		83
34) Cyclohexane	5.061	56	135067	10.423	ug/L		95
35) Chloroform	5.119	83	171687	11.874	ug/L		96
36) Ethyl acetate	5.229	43	58892	12.092	ug/L		99
37) Carbon tetrachloride	5.261	117	97213	9.974	ug/L		99
38) Tetrahydrofuran	5.271	42	18889M1	12.338	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	123242	10.263	ug/L		97
42) 2-Butanone	5.413	43	24317	10.724	ug/L		95
43) 1,1-Dichloropropene	5.449	75	101209	10.090	ug/L		99
45) Benzene	5.696	78	333099	11.469	ug/L		98
46) tert-Amyl methyl ether	5.806	73	164930	9.182	ug/L		92
48) 1,2-Dichloroethane	5.895	62	116576	11.541	ug/L	#	98
51) Methyl cyclohexane	6.294	83	104985	8.814	ug/L		96
52) Trichloroethene	6.299	95	75211	9.396	ug/L		98
54) Dibromomethane	6.734	93	49961	10.744	ug/L		98
55) 1,2-Dichloropropane	6.839	63	90347	11.762	ug/L		98
57) 2-Chloroethyl vinyl ether	7.531	63	35332	9.057	ug/L		90
58) Bromodichloromethane	6.912	83	114830	10.830	ug/L		99
61) 1,4-Dioxane	7.117	88	26527	408.892	ug/L		93
62) cis-1,3-Dichloropropene	7.604	75	118349	9.949	ug/L	#	86
65) Toluene	7.872	92	202537	10.838	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	18804	10.176	ug/L		88
67) Tetrachloroethene	8.328	166	63742	8.318	ug/L		99
69) trans-1,3-Dichloropropene	8.354	75	99009	9.760	ug/L	#	84
71) Ethyl methacrylate	8.548	69	72456	9.635	ug/L		88
72) 1,1,2-Trichloroethane	8.538	83	51611	10.231	ug/L		99
73) Chlorodibromomethane	8.753	129	63495	9.278	ug/L		99
74) 1,3-Dichloropropane	8.863	76	109423	10.651	ug/L		100
75) 1,2-Dibromoethane	9.031	107	54268	9.241	ug/L		98
77) 2-Hexanone	9.314	43	34350	10.850	ug/L		98
78) Chlorobenzene	9.686	112	209261	10.310	ug/L	#	86
79) Ethylbenzene	9.728	91	386996	11.083	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.765	131	60144	8.927	ug/L		99
81) p/m Xylene	9.911	106	301612	21.476	ug/L		97
82) o Xylene	10.446	106	289621	21.187	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N08.D
Acq On : 11 Jun 2024 02:59 pm
Operator : VOA130:MKS
Sample : I8260STD10PPB
Misc : WG1933246
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 10:03:18 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.514	104	491904	21.904	ug/L	96
85) Bromoform	10.535	173	35314	8.843	ug/L	100
87) Isopropylbenzene	10.829	105	360317	10.745	ug/L	100
89) Bromobenzene	11.259	156	83887	9.601	ug/L	100
90) n-Propylbenzene	11.301	91	462303	11.559	ug/L	99
91) 1,4-Dichlorobutane	11.311	55	111039	12.543	ug/L	98
92) 1,1,2,2-Tetrachloroethane	11.379	83	77810	11.300	ug/L	100
93) 4-Ethyltoluene	11.427	105	352326	10.320	ug/L	100
94) 2-Chlorotoluene	11.469	91	282662	11.398	ug/L	91
95) 1,3,5-Trimethylbenzene	11.526	105	307656	10.333	ug/L	99
96) 1,2,3-Trichloropropane	11.521	75	60506	10.993	ug/L	91
97) trans-1,4-Dichloro-2-b...	11.573	53	20881	10.599	ug/L	95
98) 4-Chlorotoluene	11.652	91	289934	11.192	ug/L	98
99) tert-Butylbenzene	11.867	119	248084	10.160	ug/L	97
102) 1,2,4-Trimethylbenzene	11.940	105	305426	10.582	ug/L	100
103) sec-Butylbenzene	12.056	105	376174	10.747	ug/L	97
104) p-Isopropyltoluene	12.208	119	307600	10.038	ug/L	99
105) 1,3-Dichlorobenzene	12.271	146	168808	10.112	ug/L	99
106) 1,4-Dichlorobenzene	12.365	146	169701	9.972	ug/L	100
107) p-Diethylbenzene	12.580	119	171668	9.380	ug/L	99
108) n-Butylbenzene	12.638	91	287507	11.300	ug/L	98
109) 1,2-Dichlorobenzene	12.785	146	161537	10.022	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.372	119	268420	9.997	ug/L	97
111) 1,2-Dibromo-3-chloropr...	13.561	155	10195	8.549	ug/L	95
112) 1,3,5-Trichlorobenzene	13.597	180	110616	9.316	ug/L	98
113) Hexachlorobutadiene	14.174	225	32936	8.394	ug/L	100
114) 1,2,4-Trichlorobenzene	14.195	180	99838	9.200	ug/L	100
115) Naphthalene	14.483	128	231075	9.227	ug/L	100
116) 1,2,3-Trichlorobenzene	14.651	180	94725	9.159	ug/L	98

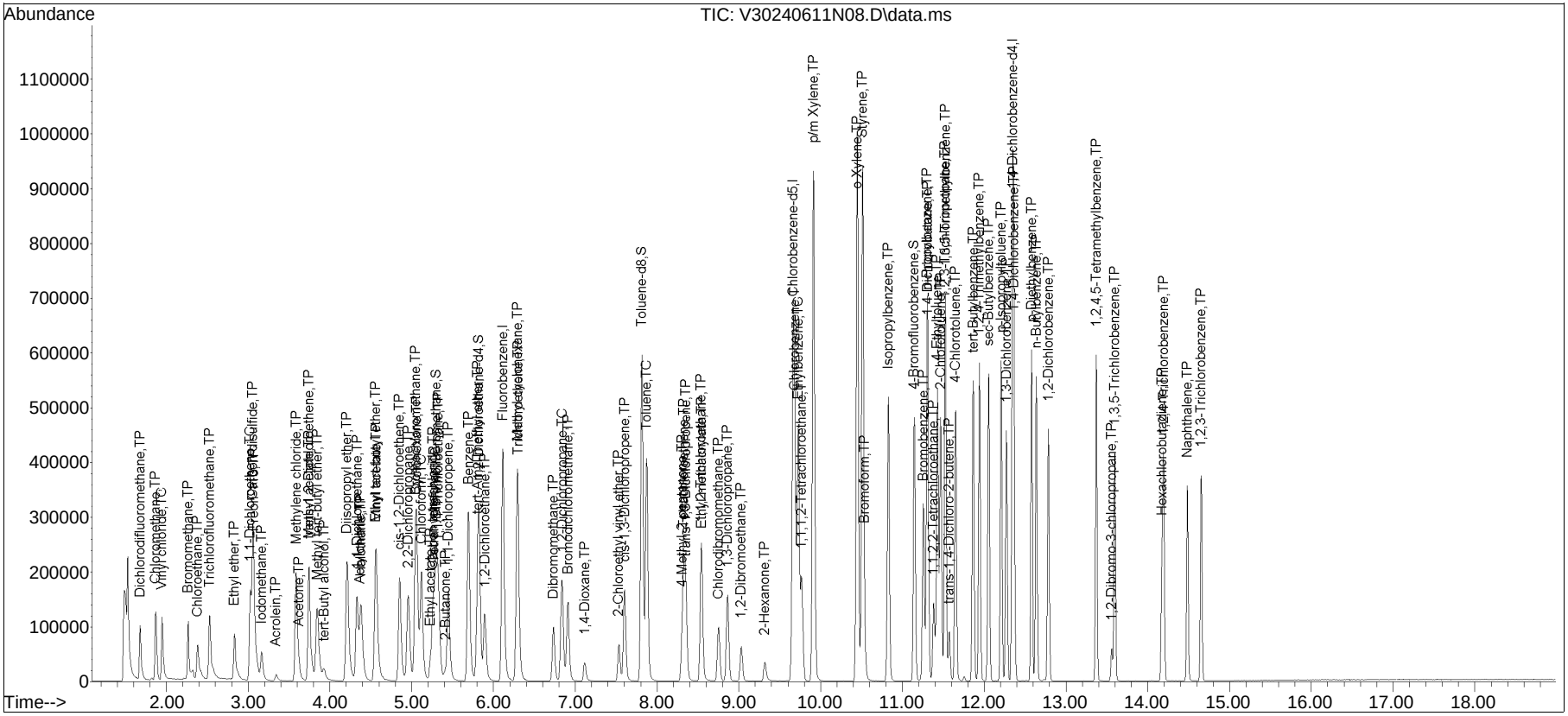
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N08.D
Acq On : 11 Jun 2024 02:59 pm
Operator : VOA130:MKS
Sample : I8260STD10PPB
Misc : WG1933246
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 12 10:03:18 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 01 12:12:17 2024
Response via : Initial Calibration

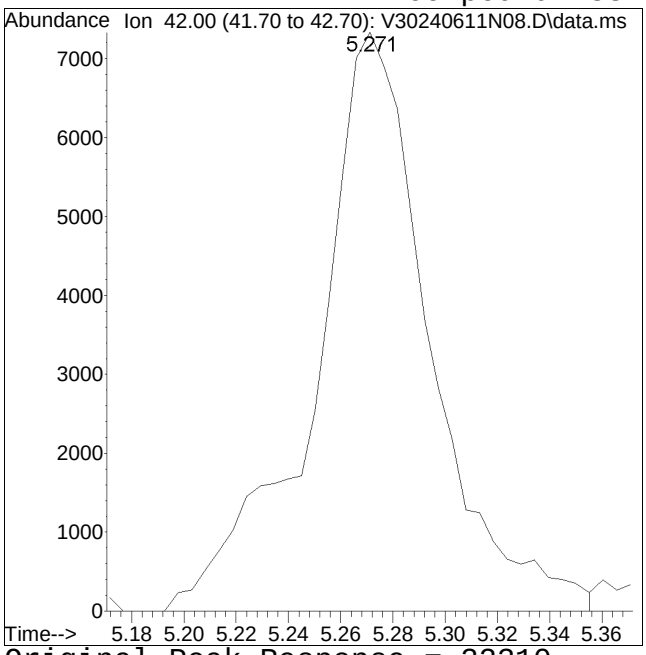
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

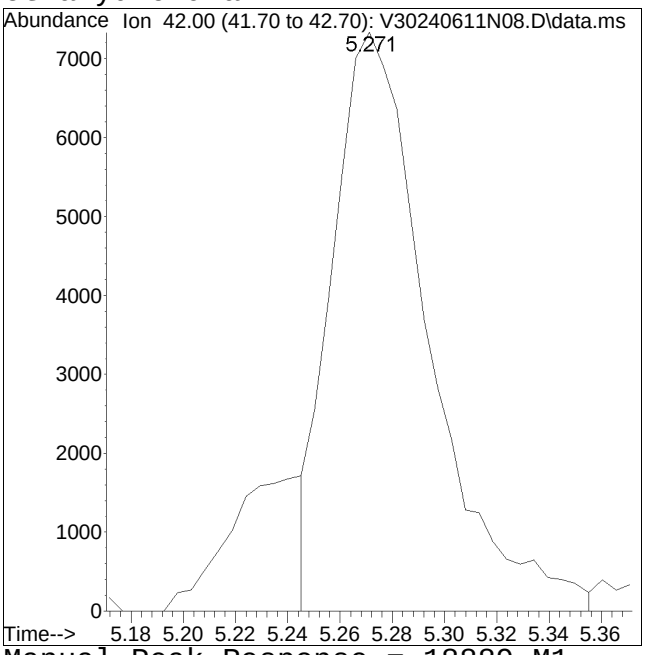


Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N08.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 2:59 pm Instrument : VOA130
Sample : I8260STD10PPB Quant Date : 6/12/2024 10:02 am

Compound #38: Tetrahydrofuran





Original Peak Response = 22310 Manual Peak Response = 18889 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N09.D
Acq On : 11 Jun 2024 03:21 pm
Operator : VOA130:MKS
Sample : I8260STD30PPB
Misc : WG1933246
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 10:09:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	490251	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 108.87%			
63) Chlorobenzene-d5	9.665	117	350512	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 102.46%			
84) 1,4-Dichlorobenzene-d4	12.349	152	196696	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 104.40%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	134837	9.482	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.82%			
47) 1,2-Dichloroethane-d4	5.822	65	164656	9.148	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.48%			
64) Toluene-d8	7.814	98	478004	10.176	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.76%			
88) 4-Bromofluorobenzene	11.143	95	183979	9.874	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.679	85	287562	29.488	ug/L	96
3) Chloromethane	1.868	50	365603	26.940	ug/L	98
4) Vinyl chloride	1.947	62	328636	28.676	ug/L	100
5) Bromomethane	2.267	94	159143	29.529	ug/L	98
6) Chloroethane	2.377	64	207122	27.827	ug/L	90
7) Trichlorofluoromethane	2.529	101	368598	29.313	ug/L	100
8) Ethyl ether	2.833	74	122792	29.726	ug/L	96
10) 1,1-Dichloroethene	3.027	96	222598	28.723	ug/L	89
11) Carbon disulfide	3.058	76	698456	27.941	ug/L	100
12) Freon-113	3.069	101	223803	30.055	ug/L	96
13) Iodomethane	3.163	142	229602	36.721	ug/L	93
14) Acrolein	3.347	56	36652	29.693	ug/L	99
15) Methylene chloride	3.588	84	298187	27.216	ug/L	93
17) Acetone	3.625	43	62263	26.749	ug/L	90
18) trans-1,2-Dichloroethene	3.745	96	246325	27.443	ug/L	94
19) Methyl acetate	3.745	43	153677	29.524	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	607252	33.054	ug/L	92
22) tert-Butyl alcohol	3.929	59	82376	157.159	ug/L #	83
24) Diisopropyl ether	4.212	45	894644	31.409	ug/L	96
25) 1,1-Dichloroethane	4.332	63	568051	27.379	ug/L	99
26) Halothane	4.380	117	173515	29.737	ug/L	97

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N09.D
Acq On : 11 Jun 2024 03:21 pm
Operator : VOA130:MKS
Sample : I8260STD30PPB
Misc : WG1933246
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 10:09:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	78766	28.196	ug/L		95
28) Ethyl tert-butyl ether	4.563	59	733041	32.019	ug/L		95
29) Vinyl acetate	4.563	43	574550	34.985	ug/L		97
30) cis-1,2-Dichloroethene	4.852	96	288166	27.951	ug/L		93
31) 2,2-Dichloropropane	4.956	77	391948	28.651	ug/L		87
33) Bromochloromethane	5.046	128	125473	27.390	ug/L		84
34) Cyclohexane	5.061	56	498230	33.883	ug/L		99
35) Chloroform	5.119	83	506030	27.073	ug/L		95
36) Ethyl acetate	5.224	43	208277	32.485	ug/L		99
37) Carbon tetrachloride	5.261	117	321631	30.390	ug/L		98
38) Tetrahydrofuran	5.271	42	65349M1	31.778	ug/L		
40) 1,1,1-Trichloroethane	5.323	97	399184	29.752	ug/L		95
42) 2-Butanone	5.407	43	90974	34.364	ug/L		94
43) 1,1-Dichloropropene	5.449	75	350971	31.853	ug/L		98
45) Benzene	5.696	78	1064868	29.364	ug/L		98
46) tert-Amyl methyl ether	5.806	73	582825	32.459	ug/L		96
48) 1,2-Dichloroethane	5.895	62	365547	28.803	ug/L	#	98
51) Methyl cyclohexane	6.293	83	386685	33.832	ug/L		95
52) Trichloroethene	6.293	95	251543	30.721	ug/L		98
54) Dibromomethane	6.729	93	156061	28.692	ug/L		97
55) 1,2-Dichloropropane	6.839	63	305665	31.076	ug/L		98
57) 2-Chloroethyl vinyl ether	7.531	63	131783	34.260	ug/L		89
58) Bromodichloromethane	6.907	83	381764	30.538	ug/L		99
61) 1,4-Dioxane	7.117	88	34394	595.474	ug/L		92
62) cis-1,3-Dichloropropene	7.604	75	423290	32.853	ug/L	#	86
65) Toluene	7.872	92	611564	29.470	ug/L		99
66) 4-Methyl-2-pentanone	8.302	58	65014	33.744	ug/L		88
67) Tetrachloroethene	8.328	166	204846	31.365	ug/L		98
69) trans-1,3-Dichloropropene	8.349	75	353559	34.852	ug/L	#	80
71) Ethyl methacrylate	8.543	69	248622	33.489	ug/L	#	88
72) 1,1,2-Trichloroethane	8.537	83	172613	32.641	ug/L		99
73) Chlorodibromomethane	8.752	129	219234	33.698	ug/L		99
74) 1,3-Dichloropropane	8.863	76	372529	33.227	ug/L		99
75) 1,2-Dibromoethane	9.030	107	181442	32.631	ug/L		99
77) 2-Hexanone	9.313	43	118789	33.751	ug/L		97
78) Chlorobenzene	9.686	112	630079	29.386	ug/L	#	88
79) Ethylbenzene	9.728	91	1199781	30.257	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.770	131	204176	33.132	ug/L		98
81) p/m Xylene	9.911	106	925932	59.924	ug/L		96
82) o Xylene	10.451	106	894201	60.266	ug/L		99

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N09.D
Acq On : 11 Jun 2024 03:21 pm
Operator : VOA130:MKS
Sample : I8260STD30PPB
Misc : WG1933246
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 10:09:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	1531286	60.764	ug/L		97
85) Bromoform	10.535	173	119231	32.341	ug/L		98
87) Isopropylbenzene	10.829	105	1145206	30.445	ug/L		99
89) Bromobenzene	11.259	156	256724	29.315	ug/L		99
90) n-Propylbenzene	11.301	91	1460369	30.259	ug/L		99
91) 1,4-Dichlorobutane	11.311	55	340769	29.397	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.384	83	242926	29.906	ug/L		99
93) 4-Ethyltoluene	11.426	105	1137676	30.931	ug/L		100
94) 2-Chlorotoluene	11.468	91	858405	29.090	ug/L	#	89
95) 1,3,5-Trimethylbenzene	11.526	105	981462	30.558	ug/L		99
96) 1,2,3-Trichloropropane	11.521	75	196927	31.176	ug/L		93
97) trans-1,4-Dichloro-2-b...	11.573	53	64872	29.759	ug/L		98
98) 4-Chlorotoluene	11.652	91	905086	29.903	ug/L		98
99) tert-Butylbenzene	11.867	119	806819	31.153	ug/L		96
102) 1,2,4-Trimethylbenzene	11.940	105	971204	30.459	ug/L		98
103) sec-Butylbenzene	12.056	105	1227885	31.267	ug/L		96
104) p-Isopropyltoluene	12.208	119	1021015	31.795	ug/L		98
105) 1,3-Dichlorobenzene	12.271	146	523093	29.683	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	530339	29.936	ug/L		99
107) p-Diethylbenzene	12.580	119	581566	32.451	ug/L		98
108) n-Butylbenzene	12.638	91	955039	31.819	ug/L		99
109) 1,2-Dichlorobenzene	12.784	146	502855	29.819	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.372	119	920726	32.857	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.560	155	35069	32.950	ug/L		95
112) 1,3,5-Trichlorobenzene	13.597	180	354435	30.693	ug/L		98
113) Hexachlorobutadiene	14.174	225	112254	32.647	ug/L		100
114) 1,2,4-Trichlorobenzene	14.195	180	331282	31.785	ug/L		100
115) Naphthalene	14.483	128	790559	32.772	ug/L		100
116) 1,2,3-Trichlorobenzene	14.651	180	309182	31.266	ug/L		98

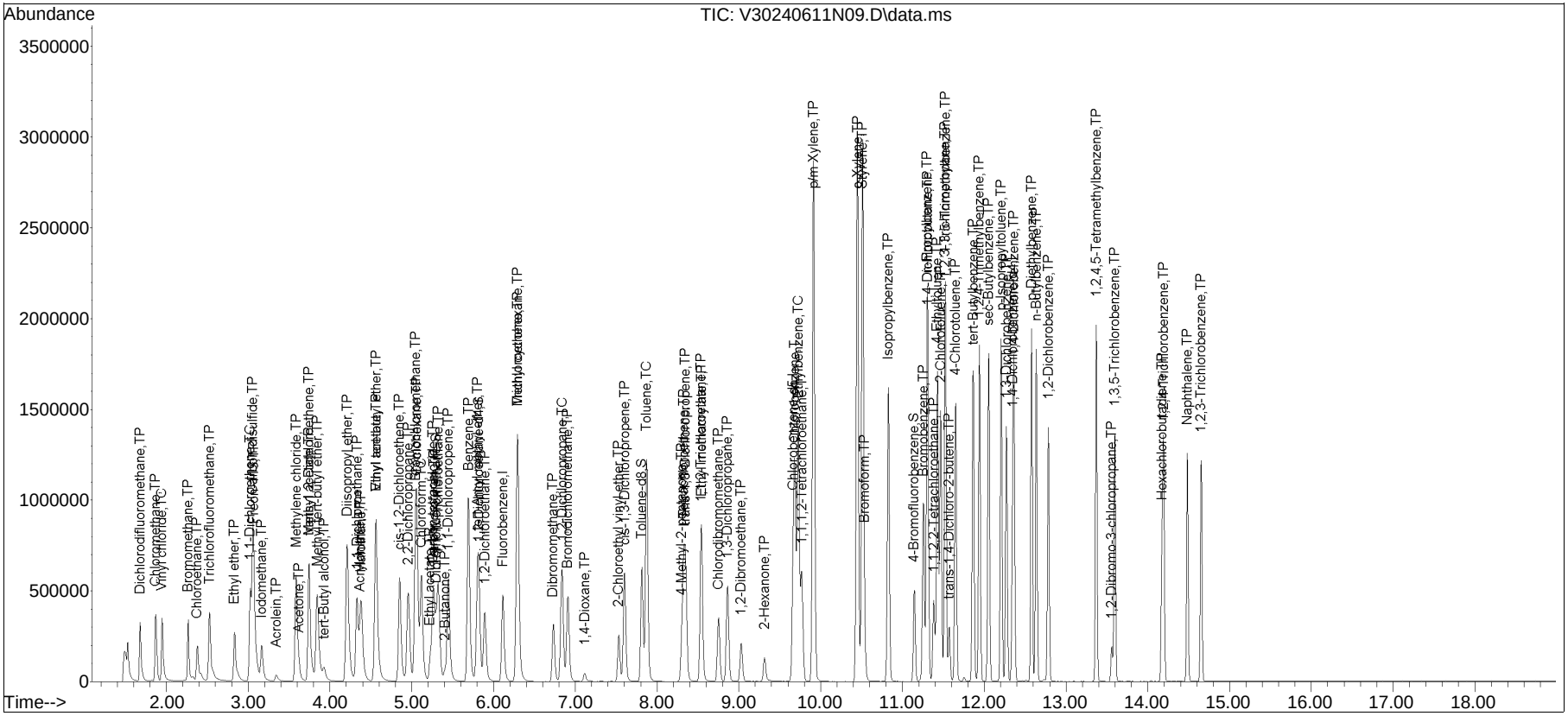
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N09.D
Acq On : 11 Jun 2024 03:21 pm
Operator : VOA130:MKS
Sample : I8260STD30PPB
Misc : WG1933246
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 12 10:09:44 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

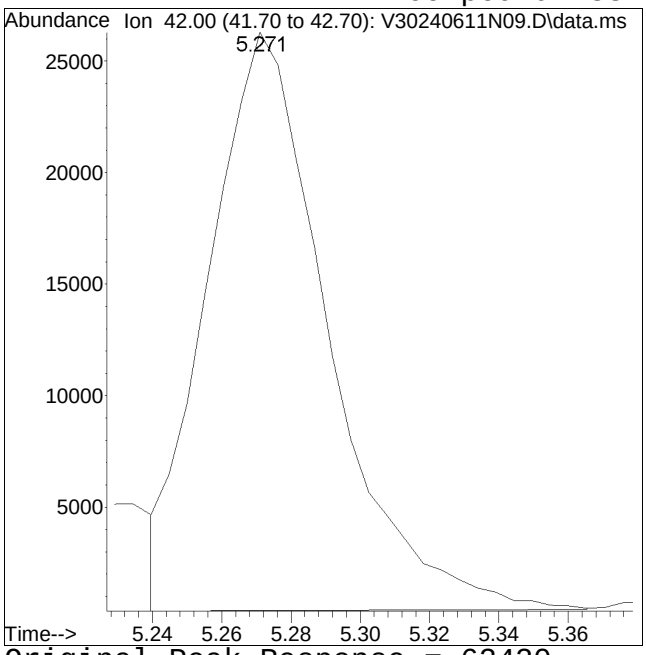
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

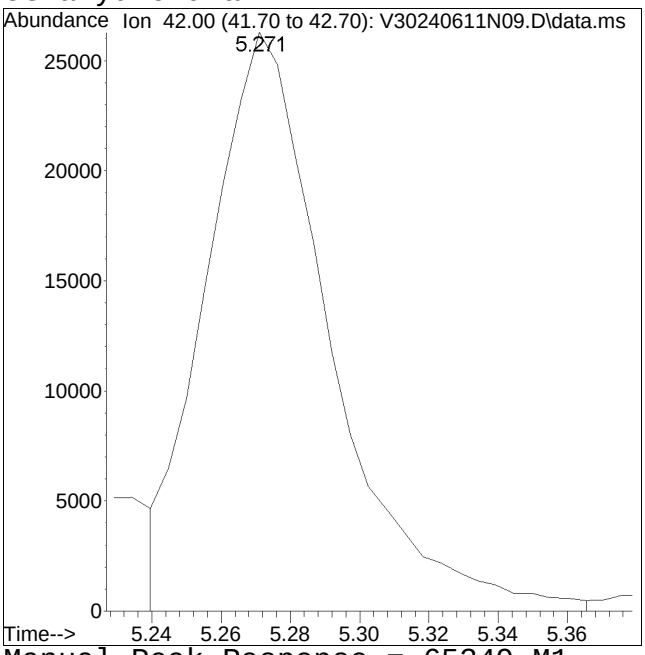


Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N09.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 3:21 pm Instrument : VOA130
Sample : I8260STD30PPB Quant Date : 6/12/2024 10:04 am

Compound #38: Tetrahydrofuran





Original Peak Response = 62420 Manual Peak Response = 65349 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N10.D
Acq On : 11 Jun 2024 03:43 pm
Operator : VOA130:MKS
Sample : I8260STD80PPB
Misc : WG1933246
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 12 10:10:17 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	516538	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 114.71%			
63) Chlorobenzene-d5	9.665	117	359509	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 105.09%			
84) 1,4-Dichlorobenzene-d4	12.349	152	203614	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 108.07%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	135699	9.057	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.57%			
47) 1,2-Dichloroethane-d4	5.822	65	167195	8.816	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.16%			
64) Toluene-d8	7.814	98	486455	10.097	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.97%			
88) 4-Bromofluorobenzene	11.149	95	184803	9.581	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	725460	70.607	ug/L	96
3) Chloromethane	1.868	50	980003	68.538	ug/L	99
4) Vinyl chloride	1.947	62	881006	72.963	ug/L	98
5) Bromomethane	2.267	94	483305	85.113	ug/L	98
6) Chloroethane	2.372	64	561067M1	71.544	ug/L	
7) Trichlorofluoromethane	2.524	101	943643	71.224	ug/L	99
8) Ethyl ether	2.833	74	349677	80.343	ug/L	94
10) 1,1-Dichloroethene	3.027	96	597359	73.159	ug/L	88
11) Carbon disulfide	3.053	76	1892529	71.857	ug/L	100
12) Freon-113	3.069	101	574056	73.168	ug/L	95
13) Iodomethane	3.163	142	740062	112.336	ug/L	93
14) Acrolein	3.342	56	104527	80.372	ug/L	97
15) Methylene chloride	3.588	84	804676	69.707	ug/L	93
17) Acetone	3.619	43	165556	67.504	ug/L #	88
18) trans-1,2-Dichloroethene	3.745	96	676514	71.534	ug/L	93
19) Methyl acetate	3.745	43	414562	75.590	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	1797788	92.878	ug/L	92
22) tert-Butyl alcohol	3.929	59	233001	421.902	ug/L #	84
24) Diisopropyl ether	4.207	45	2612681	87.059	ug/L	95
25) 1,1-Dichloroethane	4.327	63	1539040	70.403	ug/L	98
26) Halothane	4.385	117	476006	77.426	ug/L	97

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N10.D
Acq On : 11 Jun 2024 03:43 pm
Operator : VOA130:MKS
Sample : I8260STD80PPB
Misc : WG1933246
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 12 10:10:17 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	212445	72.178	ug/L		96
28) Ethyl tert-butyl ether	4.558	59	2210780	91.652	ug/L		94
29) Vinyl acetate	4.563	43	1706340	98.613	ug/L	#	96
30) cis-1,2-Dichloroethene	4.852	96	794962	73.183	ug/L		92
31) 2,2-Dichloropropane	4.956	77	1060263	73.559	ug/L		86
33) Bromochloromethane	5.046	128	347704	72.039	ug/L		82
34) Cyclohexane	5.061	56	1305637	84.273	ug/L		98
35) Chloroform	5.119	83	1369324	69.532	ug/L		95
36) Ethyl acetate	5.224	43	600737	88.929	ug/L		99
37) Carbon tetrachloride	5.261	117	891103	79.913	ug/L		98
38) Tetrahydrofuran	5.271	42	178830M1	82.536	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	1066653	75.453	ug/L		95
42) 2-Butanone	5.407	43	258823	92.791	ug/L		96
43) 1,1-Dichloropropene	5.449	75	991939	85.444	ug/L		98
45) Benzene	5.691	78	3032589	79.370	ug/L		98
46) tert-Amyl methyl ether	5.806	73	1723331	91.093	ug/L		98
48) 1,2-Dichloroethane	5.895	62	998922	74.703	ug/L	#	98
51) Methyl cyclohexane	6.293	83	1055019	87.609	ug/L		94
52) Trichloroethene	6.293	95	726616	84.224	ug/L		97
54) Dibromomethane	6.734	93	430895	75.189	ug/L		96
55) 1,2-Dichloropropane	6.839	63	888376	85.723	ug/L		99
57) 2-Chloroethyl vinyl ether	7.531	63	414984	102.395	ug/L		86
58) Bromodichloromethane	6.907	83	1093663	83.031	ug/L		99
61) 1,4-Dioxane	7.117	88	48669	799.739	ug/L		92
62) cis-1,3-Dichloropropene	7.599	75	1277818	94.128	ug/L	#	84
65) Toluene	7.872	92	1687822	79.296	ug/L		98
66) 4-Methyl-2-pentanone	8.302	58	187221	94.740	ug/L		87
67) Tetrachloroethene	8.328	166	558563	83.383	ug/L		98
69) trans-1,3-Dichloropropene	8.349	75	1058830	101.761	ug/L	#	78
71) Ethyl methacrylate	8.543	69	697504	91.602	ug/L	#	87
72) 1,1,2-Trichloroethane	8.538	83	503055	92.748	ug/L		100
73) Chlorodibromomethane	8.752	129	662730	99.318	ug/L		99
74) 1,3-Dichloropropane	8.863	76	1072869	93.297	ug/L		99
75) 1,2-Dibromoethane	9.030	107	528817	92.724	ug/L		100
77) 2-Hexanone	9.313	43	337246	93.422	ug/L		96
78) Chlorobenzene	9.686	112	1750828	79.613	ug/L		88
79) Ethylbenzene	9.728	91	3240422	79.676	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.770	131	600311	94.976	ug/L		99
81) p/m Xylene	9.911	106	2510166	158.385	ug/L		94
82) o Xylene	10.451	106	2455242	161.334	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N10.D
Acq On : 11 Jun 2024 03:43 pm
Operator : VOA130:MKS
Sample : I8260STD80PPB
Misc : WG1933246
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 12 10:10:17 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	4195855	162.331	ug/L		97
85) Bromoform	10.535	173	353558	92.644	ug/L		98
87) Isopropylbenzene	10.829	105	3073248	78.926	ug/L		98
89) Bromobenzene	11.253	156	711882	78.527	ug/L		99
90) n-Propylbenzene	11.301	91	3906681	78.196	ug/L		98
91) 1,4-Dichlorobutane	11.311	55	929499	77.460	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.385	83	669864	79.663	ug/L		100
93) 4-Ethyltoluene	11.432	105	3120846	81.966	ug/L		99
94) 2-Chlorotoluene	11.468	91	2277354	74.554	ug/L	#	88
95) 1,3,5-Trimethylbenzene	11.526	105	2728945	82.080	ug/L		98
96) 1,2,3-Trichloropropane	11.521	75	528020	80.753	ug/L		91
97) trans-1,4-Dichloro-2-b...	11.573	53	180626	80.045	ug/L		89
98) 4-Chlorotoluene	11.652	91	2478530	79.104	ug/L		97
99) tert-Butylbenzene	11.867	119	2190631	81.710	ug/L		96
102) 1,2,4-Trimethylbenzene	11.940	105	2756772	83.522	ug/L		99
103) sec-Butylbenzene	12.056	105	3297908	81.125	ug/L		96
104) p-Isopropyltoluene	12.208	119	2821937	84.892	ug/L		98
105) 1,3-Dichlorobenzene	12.271	146	1472928	80.741	ug/L		98
106) 1,4-Dichlorobenzene	12.365	146	1486791	81.072	ug/L		99
107) p-Diethylbenzene	12.580	119	1671368	90.092	ug/L		98
108) n-Butylbenzene	12.638	91	2625978	84.518	ug/L		99
109) 1,2-Dichlorobenzene	12.784	146	1423885	81.566	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.372	119	2671516	92.098	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.560	155	98876	89.745	ug/L		98
112) 1,3,5-Trichlorobenzene	13.597	180	1033149	86.427	ug/L		98
113) Hexachlorobutadiene	14.174	225	317728	89.267	ug/L		99
114) 1,2,4-Trichlorobenzene	14.195	180	973755	90.253	ug/L		99
115) Naphthalene	14.483	128	2280937	91.341	ug/L		100
116) 1,2,3-Trichlorobenzene	14.651	180	886592	86.609	ug/L		98

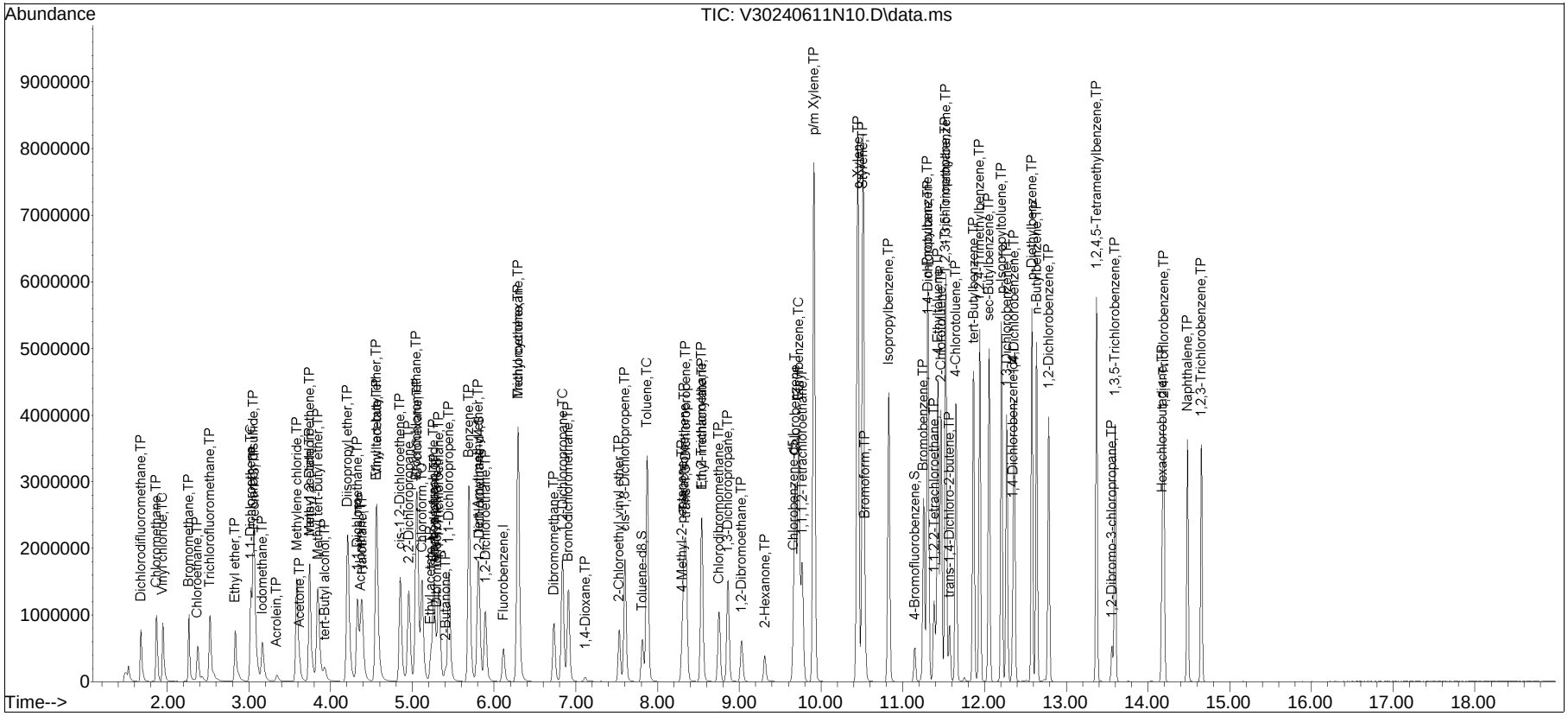
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N10.D
Acq On : 11 Jun 2024 03:43 pm
Operator : VOA130:MKS
Sample : I8260STD80PPB
Misc : WG1933246
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 12 10:10:17 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

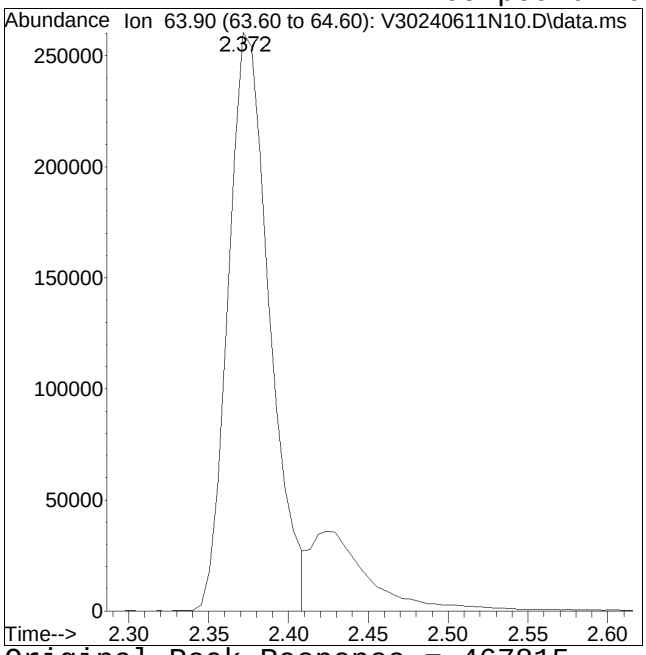
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

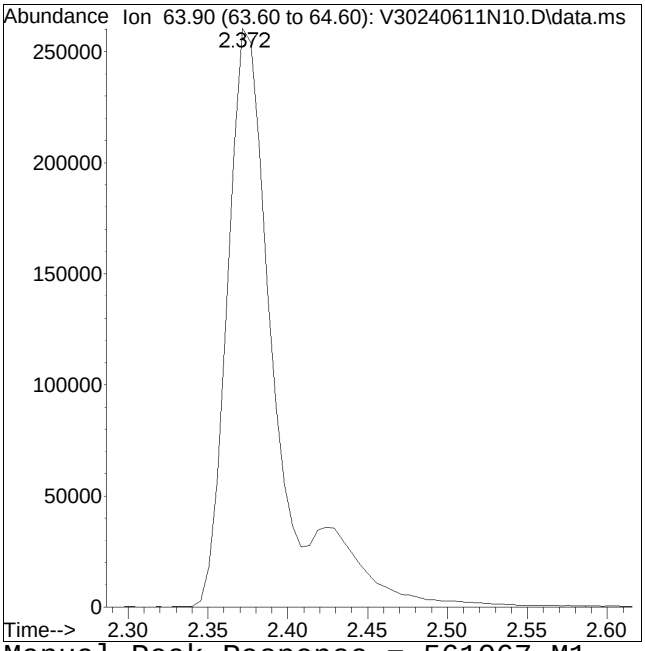


Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N10.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 3:43 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 6/12/2024 10:04 am

Compound #6: Chloroethane



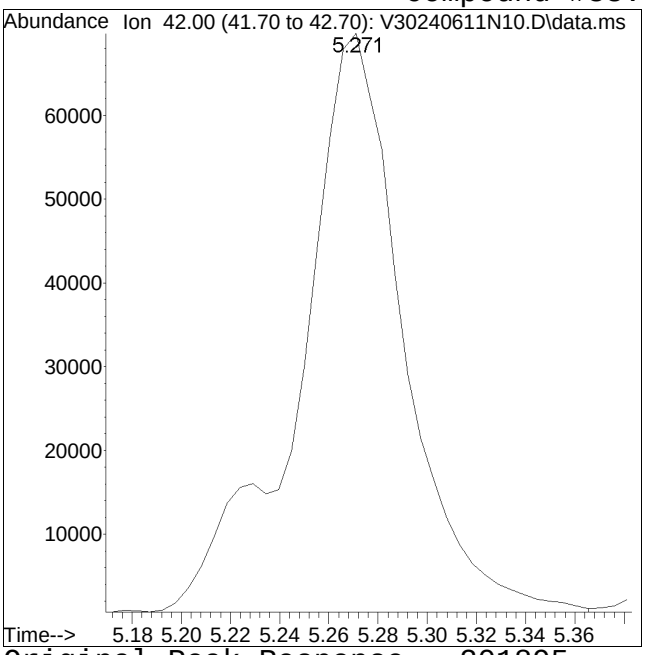


Original Peak Response = 467815 Manual Peak Response = 561067 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

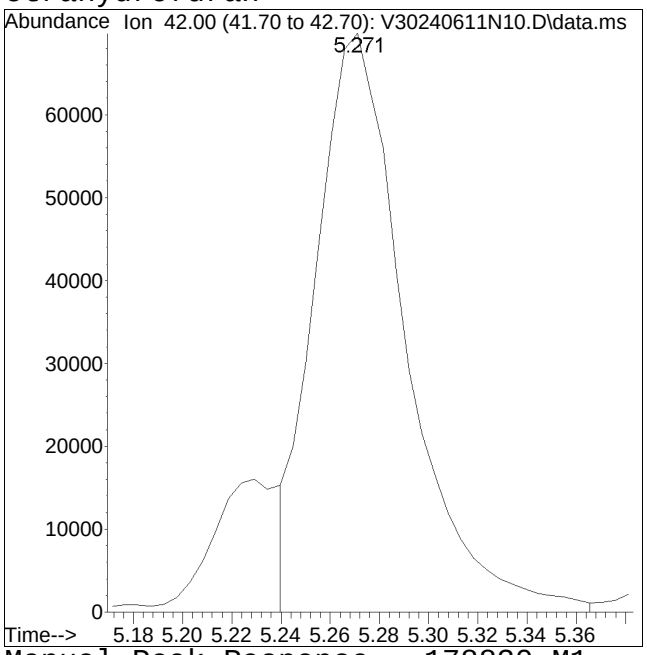
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N10.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 3:43 pm Instrument : VOA130
Sample : I8260STD80PPB Quant Date : 6/12/2024 10:04 am

Compound #38: Tetrahydrofuran



Original Peak Response = 201895



Manual Peak Response = 178830 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N11.D
Acq On : 11 Jun 2024 04:05 pm
Operator : VOA130:MKS
Sample : I8260STD120PPB
Misc : WG1933246
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 12 10:10:52 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	572209	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 127.07%			
63) Chlorobenzene-d5	9.665	117	388918	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 113.69%			
84) 1,4-Dichlorobenzene-d4	12.349	152	219284	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 116.38%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	144522	8.707	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.07%			
47) 1,2-Dichloroethane-d4	5.822	65	171934	8.184	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.84%			
64) Toluene-d8	7.814	98	528910	10.148	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.48%			
88) 4-Bromofluorobenzene	11.143	95	194525	9.364	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	1487643	130.701	ug/L	96
3) Chloromethane	1.868	50	1711985	108.082	ug/L	98
4) Vinyl chloride	1.947	62	1683812	125.883	ug/L	99
5) Bromomethane	2.267	94	895664	142.386	ug/L	99
6) Chloroethane	2.377	64	1005634M1	115.757	ug/L	
7) Trichlorofluoromethane	2.524	101	1891400	128.869	ug/L	99
8) Ethyl ether	2.833	74	606908	125.879	ug/L	93
10) 1,1-Dichloroethene	3.027	96	1146345	126.734	ug/L	87
11) Carbon disulfide	3.059	76	3519758	120.638	ug/L	100
12) Freon-113	3.069	101	1184405	136.274	ug/L	95
13) Iodomethane	3.169	142	1387020	190.057	ug/L	94
14) Acrolein	3.342	56	166999	115.915	ug/L	99
15) Methylene chloride	3.588	84	1383351	108.177	ug/L	91
17) Acetone	3.620	43	284399	104.680	ug/L #	89
18) trans-1,2-Dichloroethene	3.745	96	1230124	117.417	ug/L	92
19) Methyl acetate	3.745	43	693676	114.178	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	3136604	146.278	ug/L	94
22) tert-Butyl alcohol	3.929	59	412338	673.992	ug/L	97
24) Diisopropyl ether	4.207	45	4663126	140.265	ug/L	95
25) 1,1-Dichloroethane	4.327	63	2671316	110.309	ug/L	98
26) Halothane	4.385	117	903562	132.672	ug/L	98

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N11.D
Acq On : 11 Jun 2024 04:05 pm
Operator : VOA130:MKS
Sample : I8260STD120PPB
Misc : WG1933246
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 12 10:10:52 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	350159	107.392	ug/L		95
28) Ethyl tert-butyl ether	4.558	59	3968681	148.522	ug/L		85
29) Vinyl acetate	4.563	43	2492490	130.032	ug/L	#	96
30) cis-1,2-Dichloroethene	4.852	96	1388632	115.398	ug/L		91
31) 2,2-Dichloropropane	4.957	77	1950048	122.127	ug/L		85
33) Bromochloromethane	5.046	128	598851	112.002	ug/L		80
34) Cyclohexane	5.061	56	2606832	151.889	ug/L		97
35) Chloroform	5.119	83	2363362	108.331	ug/L		95
36) Ethyl acetate	5.224	43	1024899	136.958	ug/L		99
37) Carbon tetrachloride	5.261	117	1722334	139.430	ug/L		97
38) Tetrahydrofuran	5.271	42	296908M1	123.701	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	2004968	128.030	ug/L		94
42) 2-Butanone	5.407	43	452530	146.453	ug/L		96
43) 1,1-Dichloropropene	5.449	75	1908092	148.369	ug/L		98
45) Benzene	5.696	78	5418429	128.015	ug/L		98
46) tert-Amyl methyl ether	5.806	73	3144005	150.019	ug/L		98
48) 1,2-Dichloroethane	5.895	62	1678057	113.282	ug/L	#	98
51) Methyl cyclohexane	6.294	83	2196544	164.655	ug/L		93
52) Trichloroethene	6.294	95	1382432	144.652	ug/L		97
54) Dibromomethane	6.734	93	735627	115.875	ug/L		96
55) 1,2-Dichloropropane	6.834	63	1551852	135.176	ug/L		99
57) 2-Chloroethyl vinyl ether	7.531	63	712700	158.745	ug/L		87
58) Bromodichloromethane	6.907	83	1887070	129.329	ug/L	#	98
61) 1,4-Dioxane	7.117	88	86387	1281.421	ug/L		93
62) cis-1,3-Dichloropropene	7.599	75	2248332	149.506	ug/L	#	84
65) Toluene	7.872	92	3035447	131.826	ug/L		98
66) 4-Methyl-2-pentanone	8.302	58	331104	154.880	ug/L		85
67) Tetrachloroethene	8.328	166	1102240	152.101	ug/L		97
69) trans-1,3-Dichloropropene	8.349	75	1869951	166.126	ug/L	#	77
71) Ethyl methacrylate	8.543	69	1208259	146.679	ug/L	#	86
72) 1,1,2-Trichloroethane	8.538	83	874035	148.960	ug/L		99
73) Chlorodibromomethane	8.753	129	1168794	161.913	ug/L		99
74) 1,3-Dichloropropane	8.863	76	1849750	148.692	ug/L		100
75) 1,2-Dibromoethane	9.030	107	921576	149.372	ug/L		100
77) 2-Hexanone	9.308	43	584021	149.549	ug/L		94
78) Chlorobenzene	9.686	112	3091600	129.950	ug/L		99
79) Ethylbenzene	9.728	91	5768582	131.113	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.770	131	1097650	160.529	ug/L		99
81) p/m Xylene	9.911	106	4450515	259.582	ug/L		91
82) o Xylene	10.451	106	4301466	261.276	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N11.D
Acq On : 11 Jun 2024 04:05 pm
Operator : VOA130:MKS
Sample : I8260STD120PPB
Misc : WG1933246
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 12 10:10:52 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	7178542	256.725	ug/L		97
85) Bromoform	10.535	173	629718	153.216	ug/L		98
87) Isopropylbenzene	10.829	105	5545200	132.233	ug/L		98
89) Bromobenzene	11.259	156	1248459	127.875	ug/L		99
90) n-Propylbenzene	11.306	91	6937542	128.939	ug/L		97
91) 1,4-Dichlorobutane	11.311	55	1568905	121.402	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.385	83	1109754	122.546	ug/L		100
93) 4-Ethyltoluene	11.432	105	5562618	135.657	ug/L		98
94) 2-Chlorotoluene	11.468	91	3967004	120.587	ug/L	#	87
95) 1,3,5-Trimethylbenzene	11.526	105	4930912	137.711	ug/L		97
96) 1,2,3-Trichloropropane	11.521	75	920502	130.717	ug/L		92
97) trans-1,4-Dichloro-2-b...	11.573	53	316051	130.051	ug/L		90
98) 4-Chlorotoluene	11.652	91	4303565	127.537	ug/L		96
99) tert-Butylbenzene	11.867	119	3978187	137.782	ug/L		96
102) 1,2,4-Trimethylbenzene	11.940	105	4905191	137.993	ug/L		97
103) sec-Butylbenzene	12.056	105	6043692	138.045	ug/L		95
104) p-Isopropyltoluene	12.208	119	5207117	145.451	ug/L		97
105) 1,3-Dichlorobenzene	12.271	146	2592853	131.975	ug/L		98
106) 1,4-Dichlorobenzene	12.365	146	2624215	132.868	ug/L		98
107) p-Diethylbenzene	12.580	119	3130107	156.666	ug/L		98
108) n-Butylbenzene	12.638	91	4847563	144.871	ug/L		98
109) 1,2-Dichlorobenzene	12.785	146	2484990	132.178	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.372	119	4802317	153.724	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.560	155	172387	145.286	ug/L		96
112) 1,3,5-Trichlorobenzene	13.597	180	1863725	144.767	ug/L		97
113) Hexachlorobutadiene	14.174	225	610600	159.291	ug/L		100
114) 1,2,4-Trichlorobenzene	14.195	180	1716048	147.686	ug/L		100
115) Naphthalene	14.483	128	3831296	142.462	ug/L		100
116) 1,2,3-Trichlorobenzene	14.651	180	1551512	140.733	ug/L		99

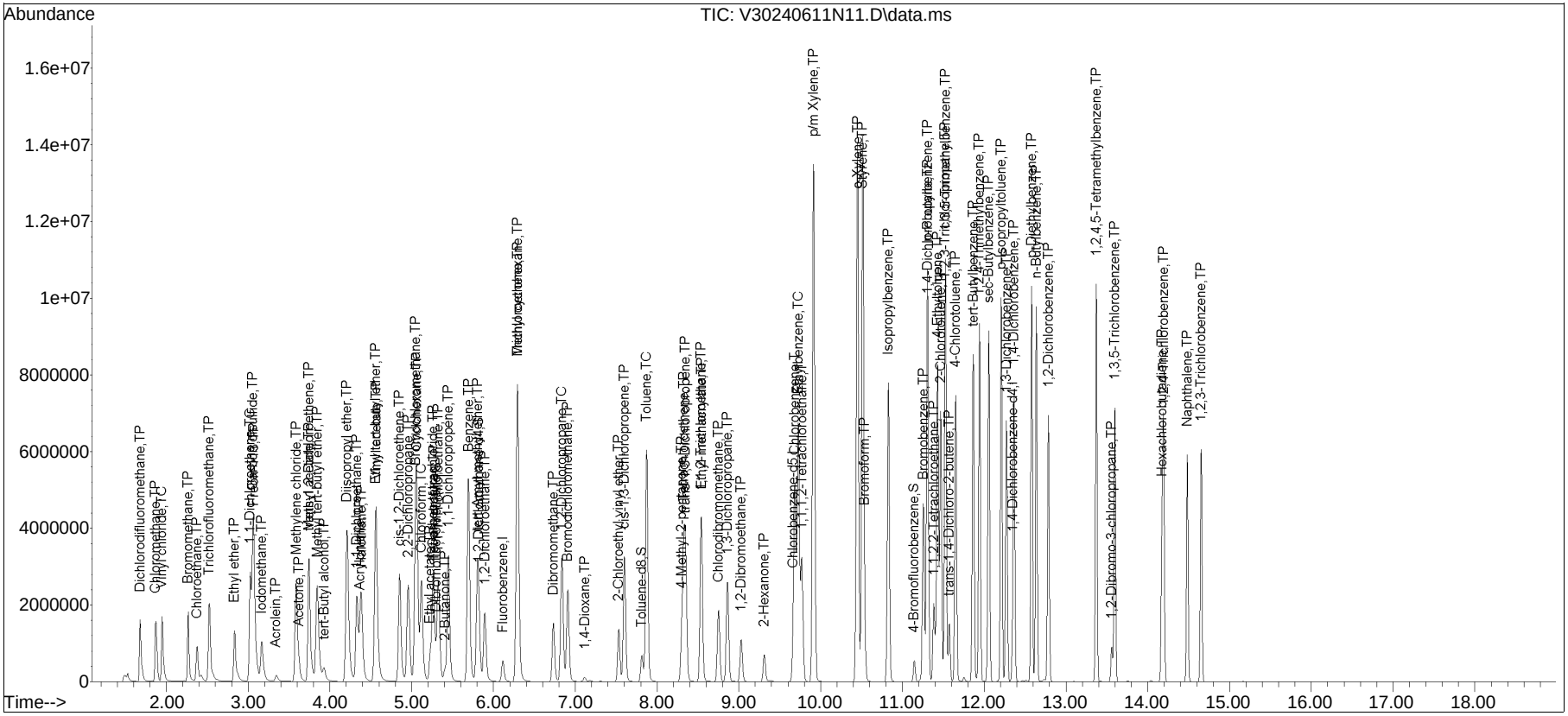
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N11.D
Acq On : 11 Jun 2024 04:05 pm
Operator : VOA130:MKS
Sample : I8260STD120PPB
Misc : WG1933246
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 12 10:10:52 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

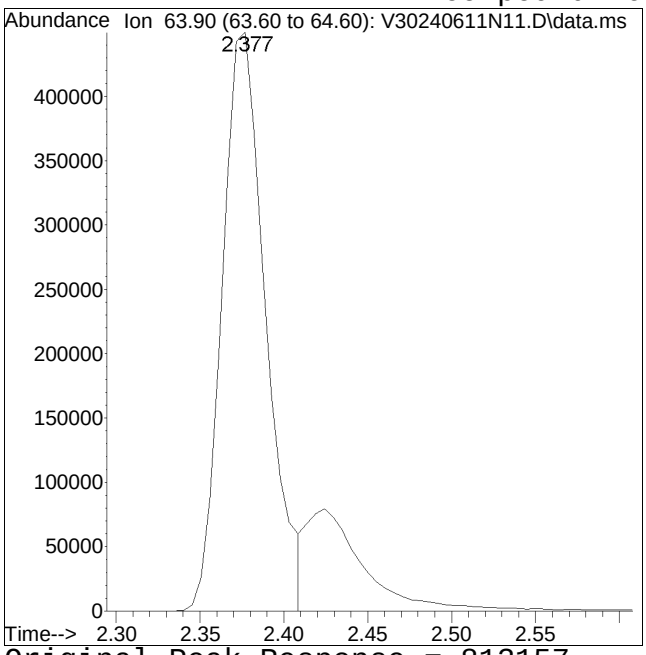


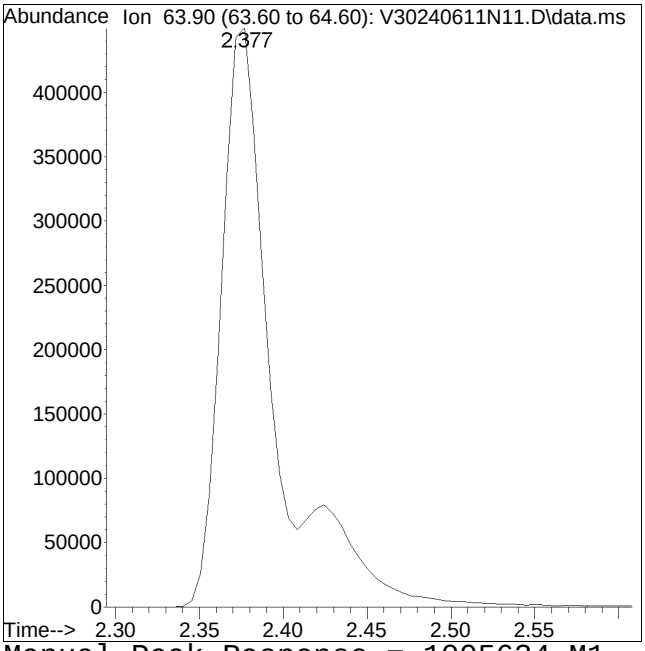
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQ
Data File : V30240611N11.D
Date Inj'd : 6/11/2024 4:05 pm
Sample : I8260STD120PPB

Method : V130_240611N_8260D.m
Operator : VOA130:MKS
Instrument : VOA130
Quant Date : 6/12/2024 10:04 am

Compound #6: Chloroethane





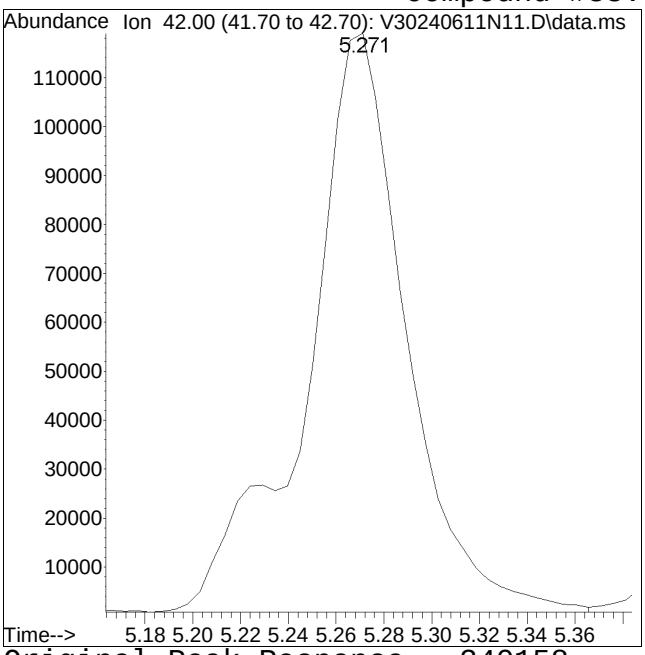
Original Peak Response = 813157 Manual Peak Response = 1005634 M1

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

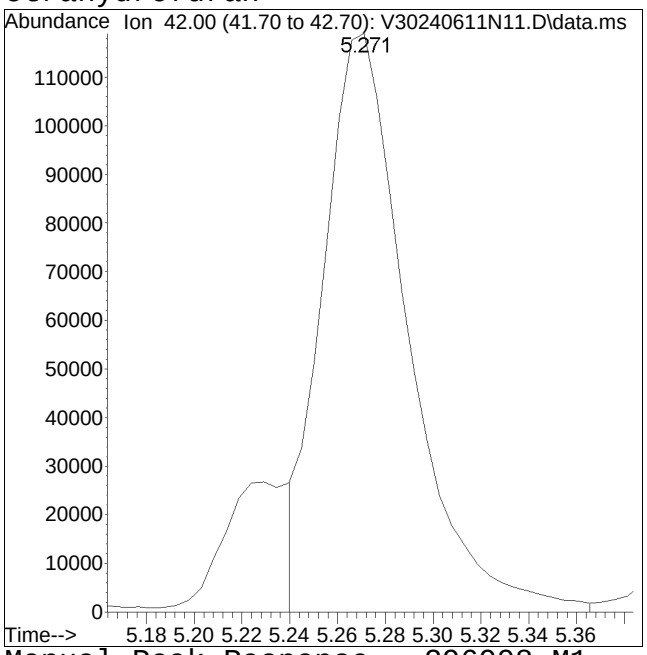
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N11.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 4:05 pm Instrument : VOA130
Sample : I8260STD120PPB Quant Date : 6/12/2024 10:04 am

Compound #38: Tetrahydrofuran



Original Peak Response = 340158



Manual Peak Response = 296908 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N12.D
Acq On : 11 Jun 2024 04:27 pm
Operator : VOA130:MKS
Sample : I8260STD200PPB
Misc : WG1933246
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 12 10:11:30 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	603479	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 134.01%			
63) Chlorobenzene-d5	9.665	117	419805	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 122.72%			
84) 1,4-Dichlorobenzene-d4	12.349	152	236312	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 125.42%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	152096	8.689	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.89%			
47) 1,2-Dichloroethane-d4	5.822	65	186264	8.406	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.06%			
64) Toluene-d8	7.814	98	557339	9.906	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.06%			
88) 4-Bromofluorobenzene	11.143	95	206946	9.244	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	2270541	189.148	ug/L	95
3) Chloromethane	1.868	50	2610290	156.255	ug/L	97
4) Vinyl chloride	1.947	62	2595408	183.980	ug/L	100
5) Bromomethane	2.267	94	1438755	216.871	ug/L	98
6) Chloroethane	2.366	64	1454955M1	158.800	ug/L	
7) Trichlorofluoromethane	2.519	101	2926860	189.086	ug/L	99
8) Ethyl ether	2.833	74	978378	192.411	ug/L	92
10) 1,1-Dichloroethene	3.027	96	1790366	187.678	ug/L	86
11) Carbon disulfide	3.059	76	5533519	179.832	ug/L	99
12) Freon-113	3.064	101	1842934	201.055	ug/L	94
13) Iodomethane	3.163	142	2175001	282.587	ug/L	94
14) Acrolein	3.342	56	281366	185.178	ug/L	100
15) Methylene chloride	3.583	84	2149114	159.351	ug/L	91
17) Acetone	3.625	43	479776	167.442	ug/L #	88
18) trans-1,2-Dichloroethene	3.740	96	1928670	174.555	ug/L	92
19) Methyl acetate	3.745	43	1174549	183.311	ug/L #	92
21) Methyl tert-butyl ether	3.845	73	5092414	225.184	ug/L	94
22) tert-Butyl alcohol	3.929	59	722533	1119.829	ug/L	95
24) Diisopropyl ether	4.207	45	7261901	207.117	ug/L	95
25) 1,1-Dichloroethane	4.327	63	4113617	161.066	ug/L	98
26) Halothane	4.385	117	1412601	196.668	ug/L	98

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N12.D
Acq On : 11 Jun 2024 04:27 pm
Operator : VOA130:MKS
Sample : I8260STD200PPB
Misc : WG1933246
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 12 10:11:30 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	592189	172.210	ug/L		96
28) Ethyl tert-butyl ether	4.558	59	6332408	224.702	ug/L		86
29) Vinyl acetate	4.563	43	4123198	203.959	ug/L	#	96
30) cis-1,2-Dichloroethene	4.852	96	2177457	171.575	ug/L		90
31) 2,2-Dichloropropane	4.957	77	2984207	177.211	ug/L		84
33) Bromochloromethane	5.046	128	938320	166.399	ug/L	#	78
34) Cyclohexane	5.061	56	4031480	222.725	ug/L		97
35) Chloroform	5.119	83	3659948	159.071	ug/L		95
36) Ethyl acetate	5.224	43	1716835	217.534	ug/L		99
37) Carbon tetrachloride	5.261	117	2694898	206.858	ug/L		98
38) Tetrahydrofuran	5.271	42	499272M1	197.234	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	3098593	187.612	ug/L		94
42) 2-Butanone	5.407	43	772002	236.899	ug/L		97
43) 1,1-Dichloropropene	5.449	75	2969549	218.940	ug/L		97
45) Benzene	5.691	78	8367327	187.442	ug/L		98
46) tert-Amyl methyl ether	5.806	73	5118849	231.594	ug/L		97
48) 1,2-Dichloroethane	5.895	62	2632125	168.481	ug/L	#	98
51) Methyl cyclohexane	6.294	83	3506357	249.220	ug/L		92
52) Trichloroethene	6.294	95	2171928	215.486	ug/L		97
54) Dibromomethane	6.729	93	1197919	178.917	ug/L		96
55) 1,2-Dichloropropane	6.834	63	2412177	199.228	ug/L		99
57) 2-Chloroethyl vinyl ether	7.531	63	1181462	249.520	ug/L		87
58) Bromodichloromethane	6.907	83	2949459	191.664	ug/L	#	98
61) 1,4-Dioxane	7.117	88	155619	2188.763	ug/L	#	94
62) cis-1,3-Dichloropropene	7.599	75	3550287	223.848	ug/L	#	84
65) Toluene	7.872	92	4733204	190.434	ug/L		96
66) 4-Methyl-2-pentanone	8.302	58	556969	241.365	ug/L		83
67) Tetrachloroethene	8.328	166	1754966	224.355	ug/L		97
69) trans-1,3-Dichloropropene	8.349	75	3000168	246.924	ug/L	#	77
71) Ethyl methacrylate	8.543	69	1951413	219.466	ug/L	#	85
72) 1,1,2-Trichloroethane	8.538	83	1419955	224.195	ug/L		99
73) Chlorodibromomethane	8.753	129	1910621	245.204	ug/L		99
74) 1,3-Dichloropropane	8.863	76	2984340	222.245	ug/L		100
75) 1,2-Dibromoethane	9.025	107	1519840	228.216	ug/L		100
77) 2-Hexanone	9.308	43	978953	232.235	ug/L		94
78) Chlorobenzene	9.686	112	4850393	188.878	ug/L		99
79) Ethylbenzene	9.728	91	8831030	185.951	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.770	131	1760757	238.561	ug/L		99
81) p/m Xylene	9.917	106	6877506	371.625	ug/L		87
82) o Xylene	10.451	106	6594108	371.064	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N12.D
Acq On : 11 Jun 2024 04:27 pm
Operator : VOA130:MKS
Sample : I8260STD200PPB
Misc : WG1933246
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 12 10:11:30 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.514	104	10870041	360.142	ug/L		99
85) Bromoform	10.535	173	1061350	239.629	ug/L		98
87) Isopropylbenzene	10.829	105	8543924	189.060	ug/L		96
89) Bromobenzene	11.259	156	1974286	187.648	ug/L		99
90) n-Propylbenzene	11.306	91	10485551	180.839	ug/L		95
91) 1,4-Dichlorobutane	11.311	55	2560704	183.870	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.385	83	1864316	191.034	ug/L		100
93) 4-Ethyltoluene	11.432	105	8550988	193.508	ug/L		96
94) 2-Chlorotoluene	11.469	91	6135702	173.071	ug/L	#	86
95) 1,3,5-Trimethylbenzene	11.526	105	7632360	197.798	ug/L		95
96) 1,2,3-Trichloropropane	11.521	75	1540331	202.975	ug/L		91
97) trans-1,4-Dichloro-2-b...	11.573	53	529508	202.185	ug/L		87
98) 4-Chlorotoluene	11.652	91	6620020	182.049	ug/L		95
99) tert-Butylbenzene	11.867	119	6258387	201.137	ug/L		96
102) 1,2,4-Trimethylbenzene	11.946	105	7594244	198.247	ug/L		95
103) sec-Butylbenzene	12.056	105	9248718	196.029	ug/L		93
104) p-Isopropyltoluene	12.208	119	8041017	208.426	ug/L		97
105) 1,3-Dichlorobenzene	12.271	146	4081646	192.783	ug/L		98
106) 1,4-Dichlorobenzene	12.365	146	4142070	194.608	ug/L		98
107) p-Diethylbenzene	12.580	119	4917168	228.377	ug/L		97
108) n-Butylbenzene	12.638	91	7407843	205.433	ug/L		96
109) 1,2-Dichlorobenzene	12.785	146	3905976	192.790	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.372	119	7415547	220.270	ug/L		95
111) 1,2-Dibromo-3-chloropr...	13.561	155	294043	229.959	ug/L		97
112) 1,3,5-Trichlorobenzene	13.597	180	2953485	212.885	ug/L		97
113) Hexachlorobutadiene	14.174	225	989543	239.547	ug/L		100
114) 1,2,4-Trichlorobenzene	14.195	180	2742293	219.001	ug/L		100
115) Naphthalene	14.483	128	6190263	213.591	ug/L		100
116) 1,2,3-Trichlorobenzene	14.651	180	2502505	210.638	ug/L		98

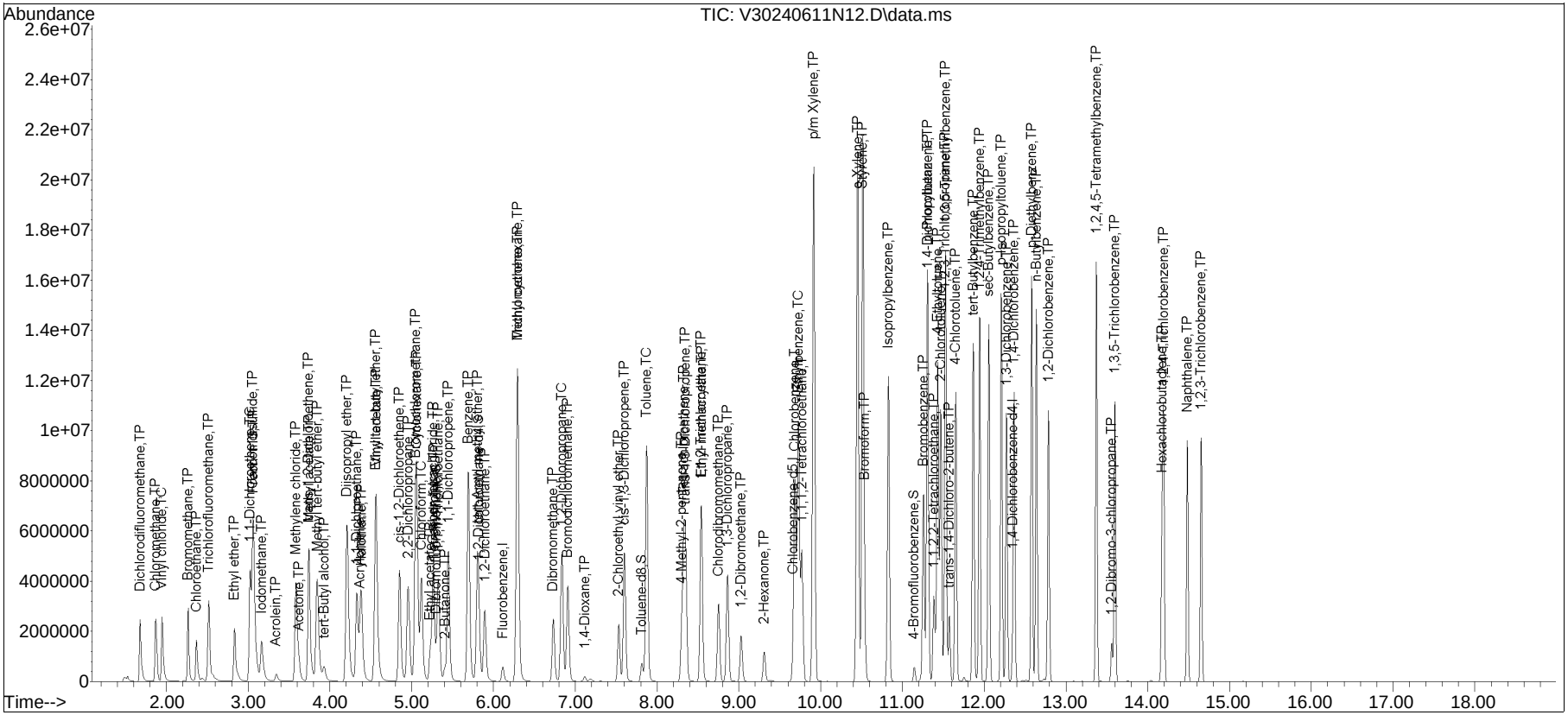
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N12.D
Acq On : 11 Jun 2024 04:27 pm
Operator : VOA130:MKS
Sample : I8260STD200PPB
Misc : WG1933246
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 12 10:11:30 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:03:37 2024
Response via : Initial Calibration

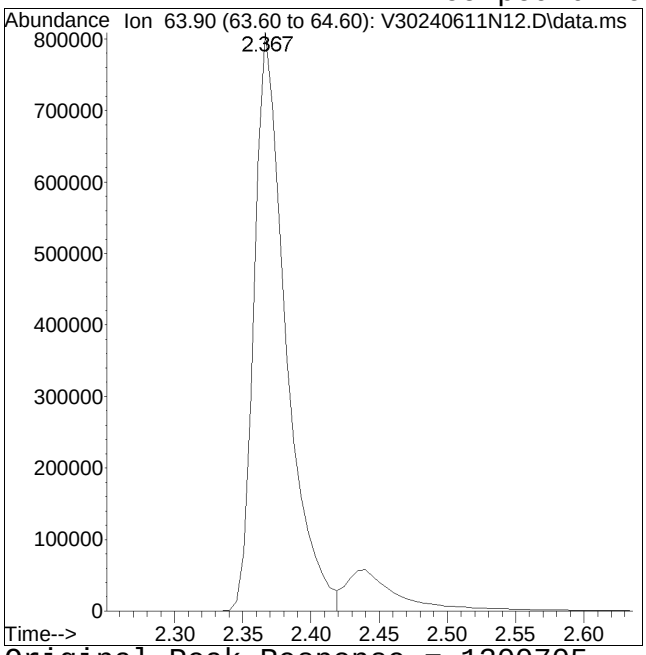
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•



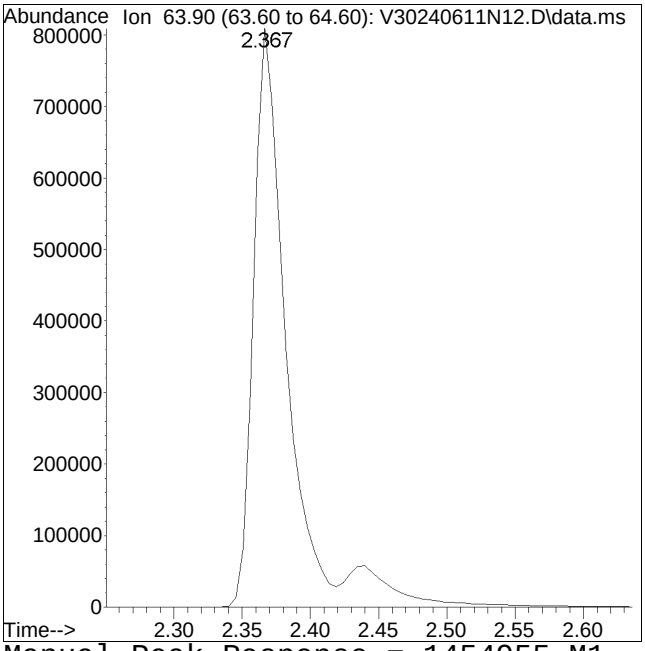
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N12.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 4:27 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 6/12/2024 10:04 am

Compound #6: Chloroethane



Original Peak Response = 1300705



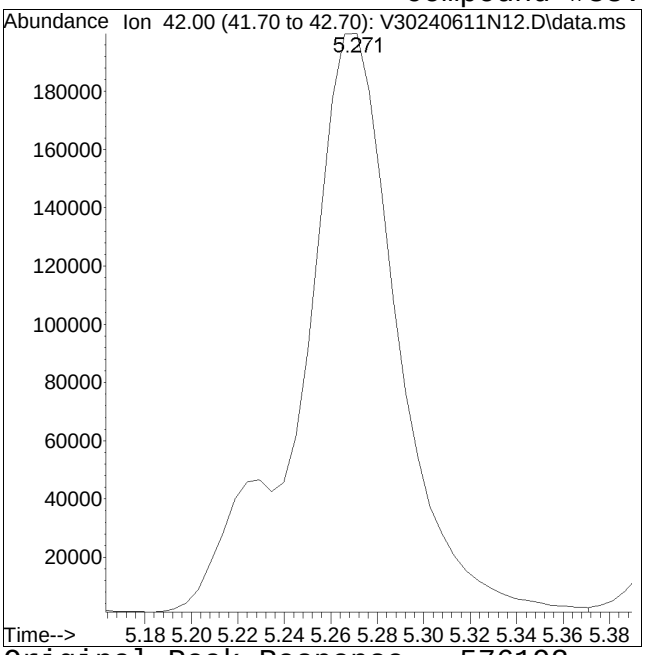
Manual Peak Response = 1454955 M1

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

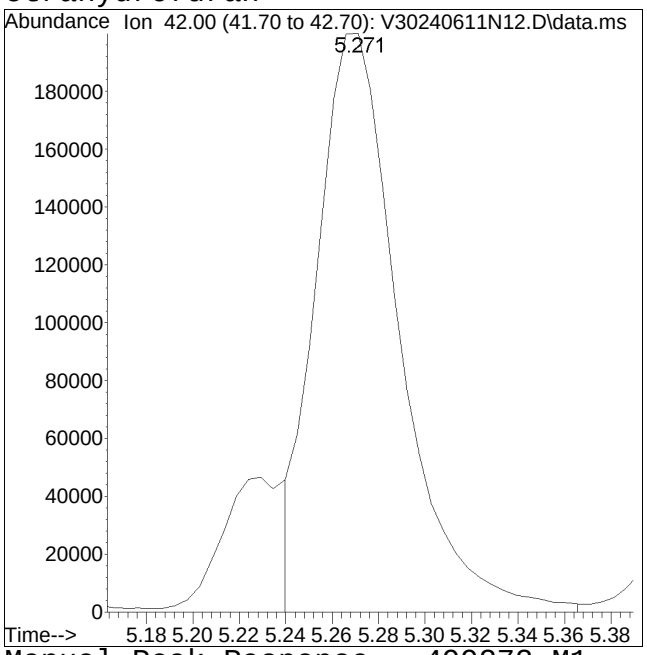
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N12.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 4:27 pm Instrument : VOA130
Sample : I8260STD200PPB Quant Date : 6/12/2024 10:04 am

Compound #38: Tetrahydrofuran



Original Peak Response = 576192



Manual Peak Response = 499272 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00
2	TP	Dichlorodifluoromethane	0.213	0.218	-2.3	116	0.00
3	TP	Chloromethane	0.268	0.325	-21.3#	125	0.00
4	TC	Vinyl chloride	0.241	0.246	-2.1	112	0.00
5	TP	Bromomethane	0.119	0.118	0.8	115	0.00
6	TP	Chloroethane	0.153	0.153	0.0	107	0.00
7	TP	Trichlorofluoromethane	0.271	0.278	-2.6	115	0.00
8	TP	Ethyl ether	0.087	0.098	-12.6	124	0.00
10	TC	1,1-Dichloroethene	0.166	0.161	3.0	108	0.00
11	TP	Carbon disulfide	0.543	0.370	31.9#	77	0.00
12	TP	Freon-113	0.164	0.157	4.3	110	0.00
13	TP	Iodomethane	* 10.000	7.421	25.8#	94	0.00
14	TP	Acrolein	0.025	0.028	-12.0	119	0.00
15	TP	Methylene chloride	0.224	0.217	3.1	104	0.00
17	TP	Acetone	* 10.000	10.485	-4.8	106	0.00
18	TP	trans-1,2-Dichloroethene	0.183	0.180	1.6	105	0.00
19	TP	Methyl acetate	0.113	0.114	-0.9	114	0.00
21	TP	Methyl tert-butyl ether	0.399	0.374	6.3	106	0.00
22	TP	tert-Butyl alcohol	0.011	0.013	-18.2	125	-0.01
24	TP	Diisopropyl ether	0.619	0.550	11.1	101	0.00
25	TP	1,1-Dichloroethane	0.410	0.409	0.2	103	0.00
26	TP	Halothane	0.125	0.125	0.0	111	0.00
27	TP	Acrylonitrile	0.054	0.062	-14.8	116	0.00
28	TP	Ethyl tert-butyl ether	0.504	0.449	10.9	102	0.00
29	TP	Vinyl acetate	0.358	0.346	3.4	110	0.00
30	TP	cis-1,2-Dichloroethene	0.210	0.203	3.3	103	0.00
31	TP	2,2-Dichloropropane	0.280	0.247	11.8	94	0.00
33	TP	Bromochloromethane	0.091	0.090#	1.1	102	0.00
34	TP	Cyclohexane	0.336	0.296	11.9	105	0.00
35	TC	Chloroform	0.366	0.365	0.3	102	0.00
36	TP	Ethyl acetate	0.135	0.140	-3.7	114	0.00
37	TP	Carbon tetrachloride	0.220	0.219	0.5	108	0.00
38	TP	Tetrahydrofuran	0.043	0.049	-14.0	125	0.00
39	S	Dibromofluoromethane	0.281	0.289	-2.8	106	0.00
40	TP	1,1,1-Trichloroethane	0.278	0.272	2.2	106	0.00
42	TP	2-Butanone	0.062	0.061	1.6	119	0.00
43	TP	1,1-Dichloropropene	0.242	0.225	7.0	106	0.00
45	TP	Benzene	0.739	0.696	5.8	100	0.00
46	TP	tert-Amyl methyl ether	0.405	0.361	10.9	105	0.00

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	S	1,2-Dichloroethane-d4	0.339	0.355	-4.7	103	0.00
48	TP	1,2-Dichloroethane	0.257	0.255	0.8	105	0.00
51	TP	Methyl cyclohexane	0.270	0.228	15.6	104	0.00
52	TP	Trichloroethene	0.178	0.165#	7.3	105	0.00
54	TP	Dibromomethane	0.109	0.108	0.9	104	0.00
55	TC	1,2-Dichloropropane	0.207	0.196	5.3	104	0.00
57	TP	2-Chloroethyl vinyl ether	0.088	0.097	-10.2	131	0.00
58	TP	Bromodichloromethane	0.261	0.242#	7.3	101	0.00
61	TP	1,4-Dioxane	0.00123	0.00142#	-15.4	128	0.00
62	TP	cis-1,3-Dichloropropene	0.271	0.265#	2.2	107	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	S	Toluene-d8	1.346	1.343	0.2	105	0.00
65	TC	Toluene	0.609	0.569	6.6	101	0.00
66	TP	4-Methyl-2-pentanone	0.059	0.060	-1.7	115	0.00
67	TP	Tetrachloroethene	0.203	0.190	6.4	107	0.00
69	TP	trans-1,3-Dichloropropene	* 10.000	9.485	5.2	106	0.00
71	TP	Ethyl methacrylate	0.220	0.249	-13.2	123	0.00
72	TP	1,1,2-Trichloroethane	0.160	0.150#	6.3	104	0.00
73	TP	Chlorodibromomethane	0.208	0.184#	11.5	104	0.00
74	TP	1,3-Dichloropropane	0.348	0.327	6.0	107	0.00
75	TP	1,2-Dibromoethane	0.173	0.159#	8.1	105	0.00
77	TP	2-Hexanone	0.111	0.110	0.9	115	0.00
78	T	Chlorobenzene	0.630	0.605	4.0	104	0.00
79	TC	Ethylbenzene	1.149	1.101	4.2	102	0.00
80	T	1,1,1,2-Tetrachloroethane	0.199	0.173	13.1	103	0.00
81	TP	p/m Xylene	0.438	0.424	3.2	101	0.00
82	TP	o Xylene	0.421	0.404	4.0	100	0.00
83	TP	Styrene	0.697	0.692	0.7	101	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
85	TP	Bromoform	0.209	0.195	6.7	108	0.00
87	TP	Isopropylbenzene	1.921	1.877	2.3	102	0.00
88	S	4-Bromofluorobenzene	0.930	0.946	-1.7	104	0.00
89	TP	Bromobenzene	0.455	0.454	0.2	106	0.00
90	TP	n-Propylbenzene	2.453	2.377	3.1	100	0.00
91	TP	1,4-Dichlorobutane	0.596	0.657	-10.2	116	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.429	0.402	6.3	101	0.00
93	TP	4-Ethyltoluene	1.896	1.866	1.6	103	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94 TP	2-Chlorotoluene	1.481	1.466	1.0	101	0.00
95 TP	1,3,5-Trimethylbenzene	1.673	1.561	6.7	99	0.00
96 TP	1,2,3-Trichloropropane	0.345	0.331	4.1	107	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.115	0.118	-2.6	111	0.00
98 TP	4-Chlorotoluene	1.550	1.525	1.6	103	0.00
99 TP	tert-Butylbenzene	1.365	1.297	5.0	102	0.00
102 TP	1,2,4-Trimethylbenzene	1.637	1.604	2.0	103	0.00
103 TP	sec-Butylbenzene	2.045	1.979	3.2	103	0.00
104 TP	p-Isopropyltoluene	1.696	1.606	5.3	102	0.00
105 TP	1,3-Dichlorobenzene	0.927	0.896	3.3	104	0.00
106 TP	1,4-Dichlorobenzene	0.953	0.909	4.6	105	0.00
107 TP	p-Diethylbenzene	0.990	0.867	12.4	99	0.00
108 TP	n-Butylbenzene	1.601	1.566	2.2	106	0.00
109 TP	1,2-Dichlorobenzene	0.885	0.862	2.6	104	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.504	1.407	6.4	102	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.058	0.056	3.4	107	0.00
112 TP	1,3,5-Trichlorobenzene	0.630	0.602	4.4	106	0.00
113 TP	Hexachlorobutadiene	0.197	0.175	11.2	104	0.00
114 TP	1,2,4-Trichlorobenzene	0.569	0.535	6.0	105	0.00
115 TP	Naphthalene	1.276	1.257	1.5	106	0.00
116 TP	1,2,3-Trichlorobenzene	0.527	0.511	3.0	106	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 8 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.115	96	479349	10.000	ug/L	0.00
Standard Area 1 = 450315			Recovery = 106.45%			
63) Chlorobenzene-d5	9.665	117	358482	10.000	ug/L	0.00
Standard Area 1 = 342090			Recovery = 104.79%			
84) 1,4-Dichlorobenzene-d4	12.349	152	195401	10.000	ug/L	0.00
Standard Area 1 = 188414			Recovery = 103.71%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	138527	10.267	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.67%			
47) 1,2-Dichloroethane-d4	5.822	65	169999	10.461	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.61%			
64) Toluene-d8	7.814	98	481486	9.977	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.77%			
88) 4-Bromofluorobenzene	11.143	95	184873	10.168	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	104262	10.214	ug/L	95
3) Chloromethane	1.868	50	155641	12.129	ug/L	98
4) Vinyl chloride	1.947	62	117870	10.191	ug/L	98
5) Bromomethane	2.267	94	56753	9.938	ug/L	100
6) Chloroethane	2.382	64	73408	10.036	ug/L	98
7) Trichlorofluoromethane	2.529	101	133082	10.250	ug/L	100
8) Ethyl ether	2.833	74	47110	11.291	ug/L	95
10) 1,1-Dichloroethene	3.027	96	76970	9.671	ug/L	88
11) Carbon disulfide	3.053	76	177523	6.814	ug/L	99
12) Freon-113	3.064	101	75230	9.546	ug/L	96
13) Iodomethane	3.169	142	54224	7.421	ug/L	94
14) Acrolein	3.342	56	13468	11.439	ug/L	99
15) Methylene chloride	3.588	84	104164	9.716	ug/L	92
17) Acetone	3.625	43	22635	10.485	ug/L	93
18) trans-1,2-Dichloroethene	3.740	96	86339	9.828	ug/L	93
19) Methyl acetate	3.745	43	54512	10.026	ug/L #	96
21) Methyl tert-butyl ether	3.845	73	179051	9.353	ug/L	96
22) tert-Butyl alcohol	3.924	59	30165	55.940	ug/L	99
24) Diisopropyl ether	4.212	45	263809	8.889	ug/L	97
25) 1,1-Dichloroethane	4.327	63	195931	9.961	ug/L	99
26) Halothane	4.385	117	59719	9.986	ug/L	99

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.364	53	29711	11.541	ug/L		99
28) Ethyl tert-butyl ether	4.558	59	215314	8.909	ug/L		94
29) Vinyl acetate	4.569	43	165827	9.668	ug/L		97
30) cis-1,2-Dichloroethene	4.852	96	97157	9.642	ug/L		91
31) 2,2-Dichloropropane	4.957	77	118290	8.807	ug/L		87
33) Bromochloromethane	5.046	128	42957	9.813	ug/L		81
34) Cyclohexane	5.061	56	142052	8.828	ug/L		95
35) Chloroform	5.119	83	174999	9.963	ug/L		95
36) Ethyl acetate	5.229	43	67196	10.375	ug/L		99
37) Carbon tetrachloride	5.261	117	104837	9.935	ug/L		99
38) Tetrahydrofuran	5.271	42	23691M1	11.363	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	130239	9.765	ug/L		96
42) 2-Butanone	5.413	43	29003	9.804	ug/L		97
43) 1,1-Dichloropropene	5.449	75	107666	9.270	ug/L		97
45) Benzene	5.696	78	333479	9.413	ug/L		98
46) tert-Amyl methyl ether	5.806	73	173023	8.915	ug/L		95
48) 1,2-Dichloroethane	5.890	62	122243	9.921	ug/L	#	98
51) Methyl cyclohexane	6.294	83	109206	8.444	ug/L		94
52) Trichloroethene	6.294	95	79325	9.306	ug/L		97
54) Dibromomethane	6.734	93	51996	9.941	ug/L		96
55) 1,2-Dichloropropane	6.839	63	93942	9.482	ug/L		99
57) 2-Chloroethyl vinyl ether	7.531	63	46414	10.999	ug/L		86
58) Bromodichloromethane	6.912	83	115980	9.276	ug/L		99
61) 1,4-Dioxane	7.117	88	34045	578.015	ug/L		93
62) cis-1,3-Dichloropropene	7.599	75	126821	9.771	ug/L	#	85
65) Toluene	7.872	92	203939	9.335	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	21557	10.172	ug/L		87
67) Tetrachloroethene	8.328	166	67968	9.332	ug/L		97
69) trans-1,3-Dichloropropene	8.349	75	105193	9.485	ug/L	#	80
71) Ethyl methacrylate	8.548	69	89328	11.338	ug/L		95
72) 1,1,2-Trichloroethane	8.538	83	53819	9.355	ug/L		99
73) Chlorodibromomethane	8.753	129	66086	8.848	ug/L		99
74) 1,3-Dichloropropane	8.863	76	117186	9.403	ug/L		99
75) 1,2-Dibromoethane	9.030	107	57074	9.216	ug/L		100
77) 2-Hexanone	9.319	43	39473	9.959	ug/L		95
78) Chlorobenzene	9.686	112	216978	9.607	ug/L	#	87
79) Ethylbenzene	9.728	91	394636	9.584	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.770	131	61900	8.684	ug/L		98
81) p/m Xylene	9.911	106	304181	19.380	ug/L		96
82) o Xylene	10.446	106	289520	19.196	ug/L		98

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240611NICAL\V30240611N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.514	104	496201	19.867	ug/L	97
85) Bromoform	10.530	173	38115	9.335	ug/L	100
87) Isopropylbenzene	10.829	105	366806	9.770	ug/L	99
89) Bromobenzene	11.259	156	88708	9.967	ug/L	97
90) n-Propylbenzene	11.301	91	464504	9.689	ug/L	99
91) 1,4-Dichlorobutane	11.311	55	128410	11.028	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.385	83	78581	9.381	ug/L	100
93) 4-Ethyltoluene	11.427	105	364641	9.842	ug/L	100
94) 2-Chlorotoluene	11.469	91	286499M1	9.902	ug/L	
95) 1,3,5-Trimethylbenzene	11.526	105	304927	9.328	ug/L	98
96) 1,2,3-Trichloropropane	11.521	75	64737	9.613	ug/L	91
97) trans-1,4-Dichloro-2-b...	11.573	53	23118	10.300	ug/L	95
98) 4-Chlorotoluene	11.647	91	297967	9.837	ug/L	97
99) tert-Butylbenzene	11.867	119	253512	9.506	ug/L	97
102) 1,2,4-Trimethylbenzene	11.940	105	313391	9.798	ug/L	98
103) sec-Butylbenzene	12.056	105	386769	9.678	ug/L	97
104) p-Isopropyltoluene	12.208	119	313911	9.474	ug/L	99
105) 1,3-Dichlorobenzene	12.271	146	175149	9.669	ug/L	99
106) 1,4-Dichlorobenzene	12.365	146	177669	9.541	ug/L	99
107) p-Diethylbenzene	12.580	119	169458	8.760	ug/L	98
108) n-Butylbenzene	12.638	91	306023	9.781	ug/L	98
109) 1,2-Dichlorobenzene	12.785	146	168520	9.746	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.372	119	274901	9.351	ug/L	97
111) 1,2-Dibromo-3-chloropr...	13.555	155	10864	9.508	ug/L	98
112) 1,3,5-Trichlorobenzene	13.597	180	117681	9.566	ug/L	99
113) Hexachlorobutadiene	14.174	225	34276	8.882	ug/L	99
114) 1,2,4-Trichlorobenzene	14.195	180	104486	9.394	ug/L	99
115) Naphthalene	14.483	128	245710	9.855	ug/L	100
116) 1,2,3-Trichlorobenzene	14.651	180	99945	9.702	ug/L	98

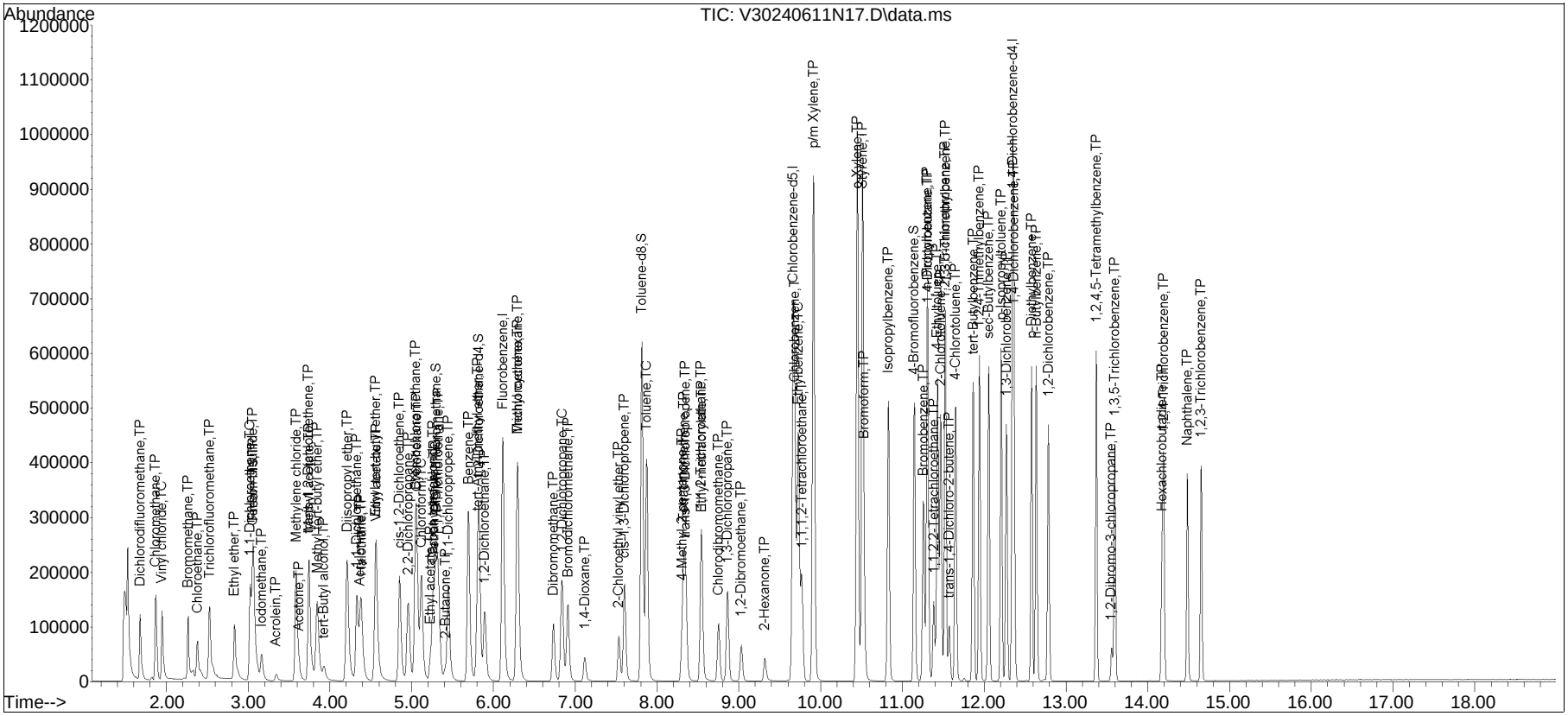
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240611NICAL\
Data File : V30240611N17.D
Acq On : 11 Jun 2024 06:18 pm
Operator : VOA130:MKS
Sample : C8260STD10PPB
Misc : WG1933246
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 12 10:17:26 2024
Quant Method : K:\VOA130\2024\240611NICAL\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

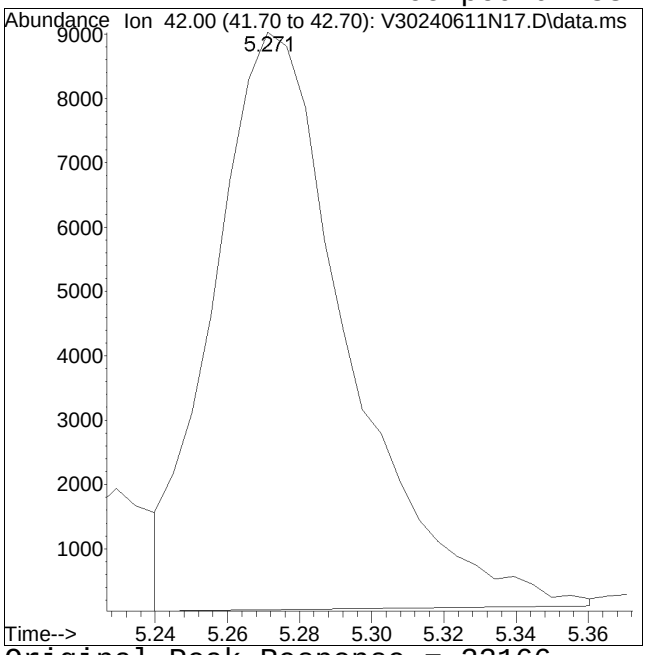
Sub List : 8260-Curve - Megamix plus Diox\V30240611N08.D•

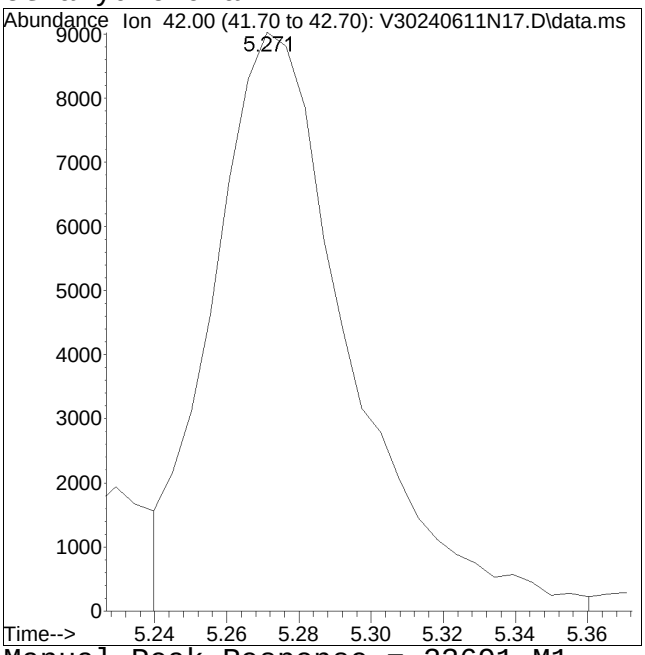


Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N17.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 6:18 pm Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 6/12/2024 10:16 am

Compound #38: Tetrahydrofuran



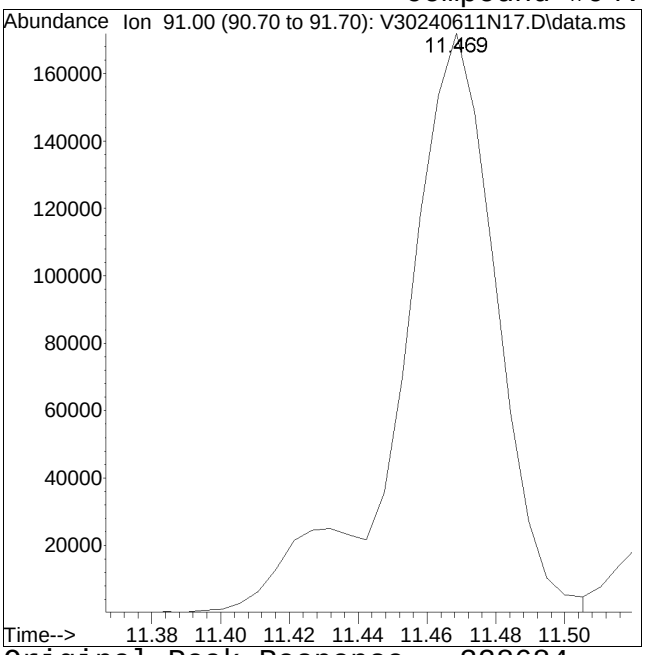


Original Peak Response = 23166 Manual Peak Response = 23691 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

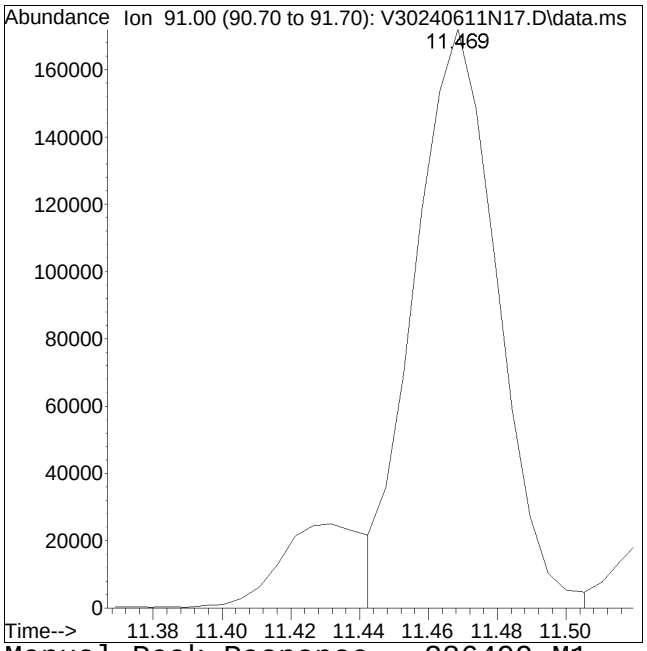
Manual Integration Report

Data Path : K:\VOA130\2024\240611NICALQMethod : V130_240611N_8260D.m
Data File : V30240611N17.D Operator : VOA130:MKS
Date Inj'd : 6/11/2024 6:18 pm Instrument : VOA130
Sample : C8260STD10PPB Quant Date : 6/12/2024 10:16 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 328684



Manual Peak Response = 286499 M1

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

Evaluate Relative Error Report VOA130

Method Path : K:\VOA130\2024\240611NICAL\
Method File : V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
13	TP Iodomethane	L	ug/L	10.0	8.195	-18.0	2.00	2.494	24.7
17	TP Acetone	L	ug/L	10.0	10.550	5.5	2.00	1.868	-6.6
69	TP trans-1,3-Dichloropropene	Q	ug/L	10.0	9.359	-6.4	0.19	0.198	4.2

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
13	TP Iodomethane	Linear	0.994527	0.000000	0.186159	-0.0250233
17	TP Acetone	Linear	0.999568	0.000000	0.0400025	0.00527843
69	TP trans-1,3-Dichloropropene	Quadratic	0.999810	0.008061	0.304361	-0.00248677

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 06/16/24 07:19		
Lab File ID	: V30240616A01	**Init. Calib. Date(s)**	: 06/11/24	06/11/24	
Sample No	: WG1935824-2	**Init. Calib. Times**	: 13:09	16:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	101	0
Dichlorodifluoromethane	0.213	0.249	-	-16.9	20	126	0
Chloromethane	0.268	0.302	-	-12.7	20	110	0
Vinyl chloride	0.241	0.297	-	-23.2*	20	128	0
Bromomethane	0.119	0.104	-	12.6	20	95	0
Chloroethane	0.153	0.173	-	-13.1	20	115	0
Trichlorofluoromethane	0.271	0.326	-	-20.3*	20	128	0
Ethyl ether	0.087	0.09	-	-3.4	20	108	0
1,1-Dichloroethene	0.166	0.192	-	-15.7	20	122	0
Carbon disulfide	0.543	0.641	-	-18	20	126	0
Freon-113	0.164	0.196	-	-19.5	20	130	0
Acrolein	0.025	0.025	-	0	20	99	0
Methylene chloride	0.224	0.238	-	-6.2	20	107	0
Acetone	10	11.23	-	-12.3	20	106	0
trans-1,2-Dichloroethene	0.183	0.208	-	-13.7	20	114	0
Methyl acetate	0.113	0.109	-	3.5	20	103	-.01
Methyl tert-butyl ether	0.399	0.398	-	0.3	20	107	0
tert-Butyl alcohol	0.011	0.012	-	-9.1	20	109	0
Diisopropyl ether	0.619	0.674	-	-8.9	20	117	0
1,1-Dichloroethane	0.41	0.476	-	-16.1	20	113	0
Halothane	0.125	0.138	-	-10.4	20	117	0
Acrylonitrile	0.054	0.054	-	0	20	95	0
Ethyl tert-butyl ether	0.504	0.518	-	-2.8	20	112	0
Vinyl acetate	0.358	0.375	-	-4.7	20	113	0
cis-1,2-Dichloroethene	0.21	0.229	-	-9	20	109	0
2,2-Dichloropropane	0.28	0.352	-	-25.7*	20	127	0
Bromochloromethane	0.091	0.096*	-	-5.5	20	103	0
Cyclohexane	0.336	0.424	-	-26.2*	20	142	0
Chloroform	0.366	0.409	-	-11.7	20	108	0
Ethyl acetate	0.135	0.134	-	0.7	20	103	0
Carbon tetrachloride	0.22	0.271	-	-23.2*	20	126	0
Tetrahydrofuran	0.043	0.042	-	2.3	20	100	-.01
Dibromofluoromethane	0.281	0.279	-	0.7	20	97	0
1,1,1-Trichloroethane	0.278	0.326	-	-17.3	20	120	0
2-Butanone	0.062	0.06	-	3.2	20	112	0
1,1-Dichloropropene	0.242	0.287	-	-18.6	20	128	0
Benzene	0.739	0.84	-	-13.7	20	114	0
tert-Amyl methyl ether	0.405	0.386	-	4.7	20	106	0
1,2-Dichloroethane-d4	0.339	0.365	-	-7.7	20	100	0
1,2-Dichloroethane	0.257	0.283	-	-10.1	20	110	0
Methyl cyclohexane	0.27	0.31	-	-14.8	20	134	0
Trichloroethene	0.178	0.2*	-	-12.4	20	120	0
Dibromomethane	0.109	0.113	-	-3.7	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 06/16/24 07:19		
Lab File ID	: V30240616A01	**Init. Calib. Date(s)**	: 06/11/24	06/11/24	
Sample No	: WG1935824-2	**Init. Calib. Times**	: 13:09	16:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.207	0.232	-	-12.1	20	116	0
Bromodichloromethane	0.261	0.284*	-	-8.8	20	112	0
1,4-Dioxane	0.00123	0.00137*	-	-11.4	20	117	0
cis-1,3-Dichloropropene	0.271	0.303	-	-11.8	20	116	0
Chlorobenzene-d5	1	1	-	0	20	97	0
Toluene-d8	1.346	1.358	-	-0.9	20	99	0
Toluene	0.609	0.654	-	-7.4	20	108	0
4-Methyl-2-pentanone	0.059	0.053	-	10.2	20	93	0
Tetrachloroethene	0.203	0.221	-	-8.9	20	116	0
trans-1,3-Dichloropropene	10	10.705	-	-7.1	20	112	0
Ethyl methacrylate	0.22	0.204	-	7.3	20	94	0
1,1,2-Trichloroethane	0.16	0.161*	-	-0.6	20	104	0
Chlorodibromomethane	0.208	0.197*	-	5.3	20	103	0
1,3-Dichloropropane	0.348	0.355	-	-2	20	108	0
1,2-Dibromoethane	0.173	0.165*	-	4.6	20	101	0
2-Hexanone	0.111	0.098	-	11.7	20	96	0
Chlorobenzene	0.63	0.655	-	-4	20	104	0
Ethylbenzene	1.149	1.272	-	-10.7	20	109	0
1,1,1,2-Tetrachloroethane	0.199	0.196	-	1.5	20	109	0
p/m Xylene	0.438	0.481	-	-9.8	20	106	0
o Xylene	0.421	0.453	-	-7.6	20	104	0
Styrene	0.697	0.753	-	-8	20	102	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	96	0
Bromoform	0.209	0.19	-	9.1	20	98	0
Isopropylbenzene	1.921	2.151	-	-12	20	108	0
4-Bromofluorobenzene	0.93	0.97	-	-4.3	20	99	0
Bromobenzene	0.455	0.454	-	0.2	20	98	0
n-Propylbenzene	2.453	2.898	-	-18.1	20	114	0
1,4-Dichlorobutane	0.596	0.619	-	-3.9	20	101	0
1,1,2,2-Tetrachloroethane	0.429	0.41	-	4.4	20	96	0
4-Ethyltoluene	1.896	2.18	-	-15	20	112	0
2-Chlorotoluene	1.481	1.667	-	-12.6	20	107	0
1,3,5-Trimethylbenzene	1.673	1.861	-	-11.2	20	110	0
1,2,3-Trichloropropane	0.345	0.332	-	3.8	20	100	0
trans-1,4-Dichloro-2-buten	0.115	0.116	-	-0.9	20	101	0
4-Chlorotoluene	1.55	1.732	-	-11.7	20	109	0
tert-Butylbenzene	1.365	1.497	-	-9.7	20	110	0
1,2,4-Trimethylbenzene	1.637	1.83	-	-11.8	20	109	0
sec-Butylbenzene	2.045	2.364	-	-15.6	20	114	0
p-Isopropyltoluene	1.696	1.889	-	-11.4	20	112	0
1,3-Dichlorobenzene	0.927	0.956	-	-3.1	20	103	0
1,4-Dichlorobenzene	0.953	0.96	-	-0.7	20	103	0
p-Diethylbenzene	0.99	1.063	-	-7.4	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA130	**Calibration Date**	: 06/16/24 07:19		
Lab File ID	: V30240616A01	**Init. Calib. Date(s)**	: 06/11/24	06/11/24	
Sample No	: WG1935824-2	**Init. Calib. Times**	: 13:09	16:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.601	1.877	-	-17.2	20	119	0
1,2-Dichlorobenzene	0.885	0.886	-	-0.1	20	100	0
1,2,4,5-Tetramethylbenzene	1.504	1.593	-	-5.9	20	108	0
1,2-Dibromo-3-chloropropan	0.058	0.049	-	15.5	20	88	0
1,3,5-Trichlorobenzene	0.63	0.636	-	-1	20	104	0
Hexachlorobutadiene	0.197	0.206	-	-4.6	20	113	0
1,2,4-Trichlorobenzene	0.569	0.566	-	0.5	20	103	0
Naphthalene	1.276	1.221	-	4.3	20	96	0
1,2,3-Trichlorobenzene	0.527	0.521	-	1.1	20	100	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00
2	TP	Dichlorodifluoromethane	0.213	0.249	-16.9	126	0.00
3	TP	Chloromethane	0.268	0.302	-12.7	110	0.00
4	TC	Vinyl chloride	0.241	0.297	-23.2#	128	0.00
5	TP	Bromomethane	0.119	0.104	12.6	95	0.00
6	TP	Chloroethane	0.153	0.173	-13.1	115	0.00
7	TP	Trichlorofluoromethane	0.271	0.326	-20.3#	128	0.00
8	TP	Ethyl ether	0.087	0.090	-3.4	108	0.00
10	TC	1,1-Dichloroethene	0.166	0.192	-15.7	122	0.00
11	TP	Carbon disulfide	0.543	0.641	-18.0	126	0.00
12	TP	Freon-113	0.164	0.196	-19.5	130	0.00
14	TP	Acrolein	0.025	0.025	0.0	99	0.00
15	TP	Methylene chloride	0.224	0.238	-6.2	107	0.00
17	TP	Acetone	* 10.000	11.230	-12.3	106	0.00
18	TP	trans-1,2-Dichloroethene	0.183	0.208	-13.7	114	0.00
19	TP	Methyl acetate	0.113	0.109	3.5	103	-0.01
21	TP	Methyl tert-butyl ether	0.399	0.398	0.3	107	0.00
22	TP	tert-Butyl alcohol	0.011	0.012	-9.1	109	0.00
24	TP	Diisopropyl ether	0.619	0.674	-8.9	117	0.00
25	TP	1,1-Dichloroethane	0.410	0.476	-16.1	113	0.00
26	TP	Halothane	0.125	0.138	-10.4	117	0.00
27	TP	Acrylonitrile	0.054	0.054	0.0	95	0.00
28	TP	Ethyl tert-butyl ether	0.504	0.518	-2.8	112	0.00
29	TP	Vinyl acetate	0.358	0.375	-4.7	113	0.00
30	TP	cis-1,2-Dichloroethene	0.210	0.229	-9.0	109	0.00
31	TP	2,2-Dichloropropane	0.280	0.352	-25.7#	127	0.00
33	TP	Bromochloromethane	0.091	0.096#	-5.5	103	0.00
34	TP	Cyclohexane	0.336	0.424	-26.2#	142	0.00
35	TC	Chloroform	0.366	0.409	-11.7	108	0.00
36	TP	Ethyl acetate	0.135	0.134	0.7	103	0.00
37	TP	Carbon tetrachloride	0.220	0.271	-23.2#	126	0.00
38	TP	Tetrahydrofuran	0.043	0.042	2.3	100	-0.01
39	S	Dibromofluoromethane	0.281	0.279	0.7	97	0.00
40	TP	1,1,1-Trichloroethane	0.278	0.326	-17.3	120	0.00
42	TP	2-Butanone	0.062	0.060	3.2	112	0.00
43	TP	1,1-Dichloropropene	0.242	0.287	-18.6	128	0.00
45	TP	Benzene	0.739	0.840	-13.7	114	0.00
46	TP	tert-Amyl methyl ether	0.405	0.386	4.7	106	0.00
47	S	1,2-Dichloroethane-d4	0.339	0.365	-7.7	100	0.00

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	TP	1,2-Dichloroethane	0.257	0.283	-10.1	110	0.00
51	TP	Methyl cyclohexane	0.270	0.310	-14.8	134	0.00
52	TP	Trichloroethene	0.178	0.200#	-12.4	120	0.00
54	TP	Dibromomethane	0.109	0.113	-3.7	102	0.00
55	TC	1,2-Dichloropropane	0.207	0.232	-12.1	116	0.00
58	TP	Bromodichloromethane	0.261	0.284#	-8.8	112	0.00
61	TP	1,4-Dioxane	0.00123	0.00137#	-11.4	117	0.00
62	TP	cis-1,3-Dichloropropene	0.271	0.303	-11.8	116	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	S	Toluene-d8	1.346	1.358	-0.9	99	0.00
65	TC	Toluene	0.609	0.654	-7.4	108	0.00
66	TP	4-Methyl-2-pentanone	0.059	0.053	10.2	93	0.00
67	TP	Tetrachloroethene	0.203	0.221	-8.9	116	0.00
69	TP	trans-1,3-Dichloropropene	* 10.000	10.705	-7.1	112	0.00
71	TP	Ethyl methacrylate	0.220	0.204	7.3	94	0.00
72	TP	1,1,2-Trichloroethane	0.160	0.161#	-0.6	104	0.00
73	TP	Chlorodibromomethane	0.208	0.197#	5.3	103	0.00
74	TP	1,3-Dichloropropane	0.348	0.355	-2.0	108	0.00
75	TP	1,2-Dibromoethane	0.173	0.165#	4.6	101	0.00
77	TP	2-Hexanone	0.111	0.098	11.7	96	0.00
78	T	Chlorobenzene	0.630	0.655	-4.0	104	0.00
79	TC	Ethylbenzene	1.149	1.272	-10.7	109	0.00
80	T	1,1,1,2-Tetrachloroethane	0.199	0.196	1.5	109	0.00
81	TP	p/m Xylene	0.438	0.481	-9.8	106	0.00
82	TP	o Xylene	0.421	0.453	-7.6	104	0.00
83	TP	Styrene	0.697	0.753	-8.0	102	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
85	TP	Bromoform	0.209	0.190	9.1	98	0.00
87	TP	Isopropylbenzene	1.921	2.151	-12.0	108	0.00
88	S	4-Bromofluorobenzene	0.930	0.970	-4.3	99	0.00
89	TP	Bromobenzene	0.455	0.454	0.2	98	0.00
90	TP	n-Propylbenzene	2.453	2.898	-18.1	114	0.00
91	TP	1,4-Dichlorobutane	0.596	0.619	-3.9	101	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.429	0.410	4.4	96	0.00
93	TP	4-Ethyltoluene	1.896	2.180	-15.0	112	0.00
94	TP	2-Chlorotoluene	1.481	1.667	-12.6	107	0.00
95	TP	1,3,5-Trimethylbenzene	1.673	1.861	-11.2	110	0.00

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.345	0.332	3.8	100	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.115	0.116	-0.9	101	0.00
98 TP	4-Chlorotoluene	1.550	1.732	-11.7	109	0.00
99 TP	tert-Butylbenzene	1.365	1.497	-9.7	110	0.00
102 TP	1,2,4-Trimethylbenzene	1.637	1.830	-11.8	109	0.00
103 TP	sec-Butylbenzene	2.045	2.364	-15.6	114	0.00
104 TP	p-Isopropyltoluene	1.696	1.889	-11.4	112	0.00
105 TP	1,3-Dichlorobenzene	0.927	0.956	-3.1	103	0.00
106 TP	1,4-Dichlorobenzene	0.953	0.960	-0.7	103	0.00
107 TP	p-Diethylbenzene	0.990	1.063	-7.4	113	0.00
108 TP	n-Butylbenzene	1.601	1.877	-17.2	119	0.00
109 TP	1,2-Dichlorobenzene	0.885	0.886	-0.1	100	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.504	1.593	-5.9	108	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.058	0.049	15.5	88	0.00
112 TP	1,3,5-Trichlorobenzene	0.630	0.636	-1.0	104	0.00
113 TP	Hexachlorobutadiene	0.197	0.206	-4.6	113	0.00
114 TP	1,2,4-Trichlorobenzene	0.569	0.566	0.5	103	0.00
115 TP	Naphthalene	1.276	1.221	4.3	96	0.00
116 TP	1,2,3-Trichlorobenzene	0.527	0.521	1.1	100	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 7 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	452669	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 100.00%			
63) Chlorobenzene-d5	9.665	117	333131	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.349	152	181690	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	126323	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
47) 1,2-Dichloroethane-d4	5.822	65	165375	10.777	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.77%			
64) Toluene-d8	7.814	98	452474	10.090	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%			
88) 4-Bromofluorobenzene	11.143	95	176196	10.422	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	112663	11.688	ug/L	97
3) Chloromethane	1.868	50	136621	11.274	ug/L	99
4) Vinyl chloride	1.947	62	134669	12.330	ug/L	99
5) Bromomethane	2.262	94	46918	8.700	ug/L	98
6) Chloroethane	2.377	64	78339	11.341	ug/L	98
7) Trichlorofluoromethane	2.529	101	147469	12.028	ug/L	99
8) Ethyl ether	2.833	74	40842	10.366	ug/L	96
10) 1,1-Dichloroethene	3.022	96	86927	11.566	ug/L	96
11) Carbon disulfide	3.053	76	289969	11.786	ug/L	99
12) Freon-113	3.064	101	88609	11.906	ug/L	100
14) Acrolein	3.342	56	11184	10.059	ug/L	99
15) Methylene chloride	3.583	84	107690	10.637	ug/L	99
17) Acetone	3.619	43	22724	11.230	ug/L	94
18) trans-1,2-Dichloroethene	3.740	96	94220	11.357	ug/L	98
19) Methyl acetate	3.740	43	49205	9.583	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	180096	9.962	ug/L	98
22) tert-Butyl alcohol	3.929	59	26314	51.675	ug/L #	69
24) Diisopropyl ether	4.207	45	305274	10.892	ug/L	99
25) 1,1-Dichloroethane	4.327	63	215588	11.607	ug/L	99
26) Halothane	4.380	117	62483	11.064	ug/L	98
27) Acrylonitrile	4.364	53	24405	10.039	ug/L	94

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.558	59	234701	10.284	ug/L		92
29) Vinyl acetate	4.563	43	169944	10.492	ug/L		99
30) cis-1,2-Dichloroethene	4.846	96	103640	10.891	ug/L		96
31) 2,2-Dichloropropane	4.957	77	159326	12.562	ug/L		89
33) Bromochloromethane	5.046	128	43238	10.459	ug/L		91
34) Cyclohexane	5.056	56	191737	12.618	ug/L		99
35) Chloroform	5.114	83	185108	11.159	ug/L		97
36) Ethyl acetate	5.224	43	60708	9.926	ug/L		97
37) Carbon tetrachloride	5.261	117	122613	12.304	ug/L		98
38) Tetrahydrofuran	5.266	42	18841M6	9.569	ug/L		
40) 1,1,1-Trichloroethane	5.324	97	147732	11.729	ug/L		98
42) 2-Butanone	5.407	43	27308	9.775	ug/L		93
43) 1,1-Dichloropropene	5.444	75	129947	11.848	ug/L		99
45) Benzene	5.691	78	380231	11.365	ug/L		100
46) tert-Amyl methyl ether	5.806	73	174924	9.544	ug/L		93
48) 1,2-Dichloroethane	5.890	62	127959	10.997	ug/L		99
51) Methyl cyclohexane	6.288	83	140290	11.487	ug/L		100
52) Trichloroethene	6.293	95	90348	11.223	ug/L		100
54) Dibromomethane	6.729	93	51043	10.334	ug/L		98
55) 1,2-Dichloropropane	6.834	63	104991	11.222	ug/L		99
58) Bromodichloromethane	6.907	83	128584	10.890	ug/L		100
61) 1,4-Dioxane	7.111	88	30936	556.187	ug/L		89
62) cis-1,3-Dichloropropene	7.599	75	137267	11.199	ug/L		89
65) Toluene	7.872	92	217806	10.729	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	17536	8.904	ug/L		95
67) Tetrachloroethene	8.323	166	73626	10.878	ug/L		98
69) trans-1,3-Dichloropropene	8.349	75	110789	10.705	ug/L	#	87
71) Ethyl methacrylate	8.543	69	67994	9.287	ug/L	#	84
72) 1,1,2-Trichloroethane	8.532	83	53563	10.019	ug/L		99
73) Chlorodibromomethane	8.747	129	65591	9.450	ug/L		100
74) 1,3-Dichloropropane	8.863	76	118117	10.199	ug/L		99
75) 1,2-Dibromoethane	9.030	107	55080	9.571	ug/L		100
77) 2-Hexanone	9.319	43	32807	8.907	ug/L		97
78) Chlorobenzene	9.686	112	218128	10.393	ug/L	#	84
79) Ethylbenzene	9.722	91	423648	11.071	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.770	131	65295	9.857	ug/L		100
81) p/m Xylene	9.911	106	320513	21.975	ug/L		100
82) o Xylene	10.446	106	302045	21.550	ug/L		99
83) Styrene	10.514	104	501828	21.621	ug/L		100
85) Bromoform	10.535	173	34486	9.084	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Isopropylbenzene	10.829	105	390805	11.195	ug/L	100
89)	Bromobenzene	11.259	156	82422	9.959	ug/L	99
90)	n-Propylbenzene	11.306	91	526487	11.811	ug/L	100
91)	1,4-Dichlorobutane	11.316	55	112514	10.392	ug/L	99
92)	1,1,2,2-Tetrachloroethane	11.385	83	74407	9.553	ug/L	100
93)	4-Ethyltoluene	11.427	105	396132	11.499	ug/L	100
94)	2-Chlorotoluene	11.468	91	302946	11.261	ug/L	92
95)	1,3,5-Trimethylbenzene	11.526	105	338117	11.124	ug/L	99
96)	1,2,3-Trichloropropane	11.521	75	60299	9.630	ug/L	94
97)	trans-1,4-Dichloro-2-b...	11.573	53	21027	10.075	ug/L	98
98)	4-Chlorotoluene	11.652	91	314626	11.171	ug/L	99
99)	tert-Butylbenzene	11.867	119	272024	10.970	ug/L	99
102)	1,2,4-Trimethylbenzene	11.940	105	332507	11.180	ug/L	99
103)	sec-Butylbenzene	12.056	105	429487	11.558	ug/L	98
104)	p-Isopropyltoluene	12.208	119	343150	11.138	ug/L	99
105)	1,3-Dichlorobenzene	12.271	146	173606	10.307	ug/L	99
106)	1,4-Dichlorobenzene	12.365	146	174347	10.069	ug/L	99
107)	p-Diethylbenzene	12.580	119	193149	10.738	ug/L	99
108)	n-Butylbenzene	12.638	91	340980	11.721	ug/L	99
109)	1,2-Dichlorobenzene	12.784	146	160887	10.007	ug/L	99
110)	1,2,4,5-Tetramethylben...	13.372	119	289463	10.590	ug/L	99
111)	1,2-Dibromo-3-chloropr...	13.560	155	8963	8.436	ug/L	100
112)	1,3,5-Trichlorobenzene	13.597	180	115481	10.096	ug/L	97
113)	Hexachlorobutadiene	14.174	225	37350	10.409	ug/L	99
114)	1,2,4-Trichlorobenzene	14.195	180	102809	9.941	ug/L	100
115)	Naphthalene	14.483	128	221788	9.567	ug/L	100
116)	1,2,3-Trichlorobenzene	14.656	180	94576	9.874	ug/L	98

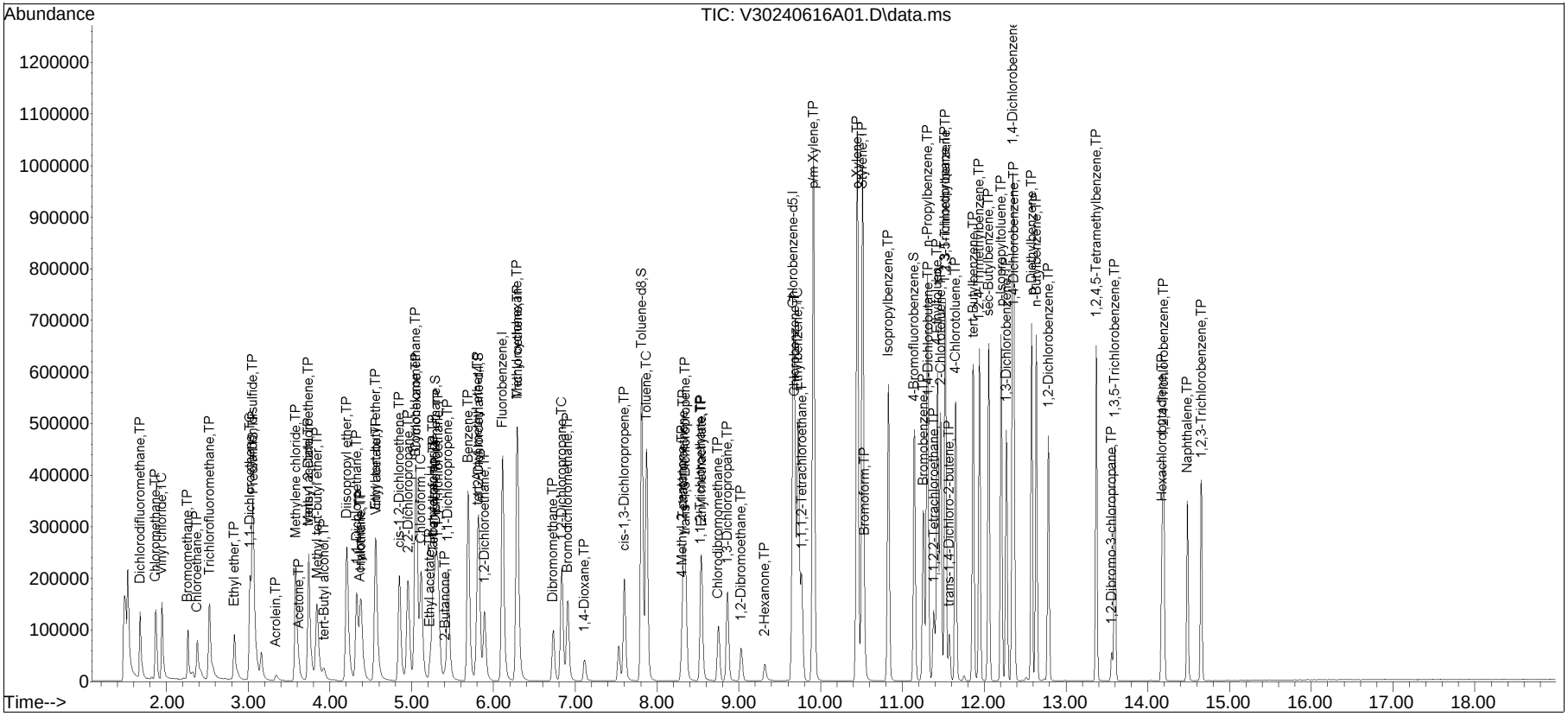
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-2
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

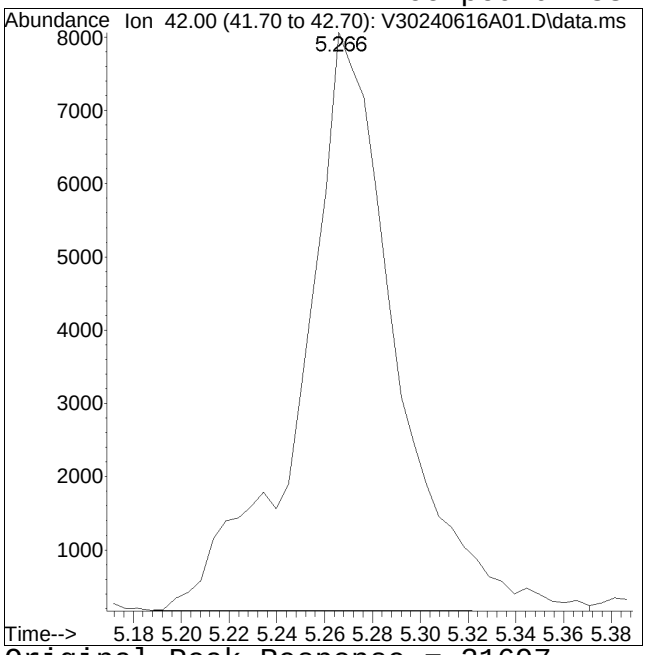
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•



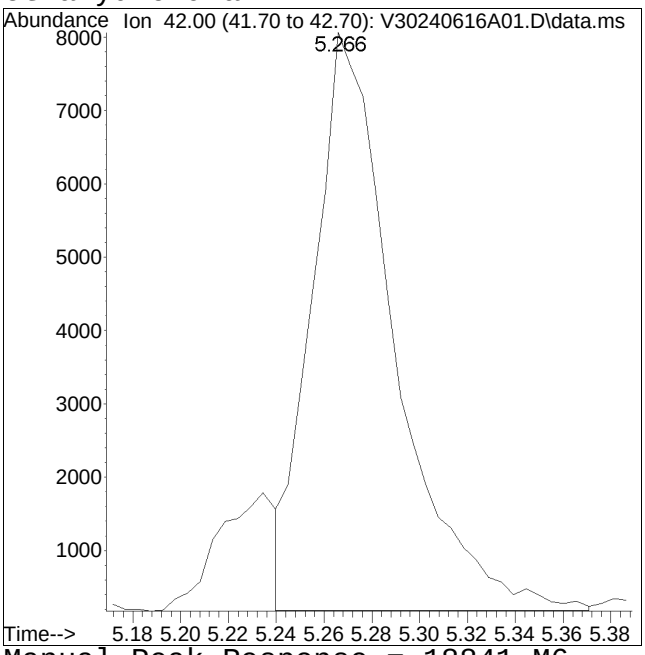
Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A01.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 7:19 am	Instrument	: VOA130
Sample	: WG1935824-2	Quant Date	: 6/16/2024 8:22 am

Compound #38: Tetrahydrofuran



Original Peak Response = 21697



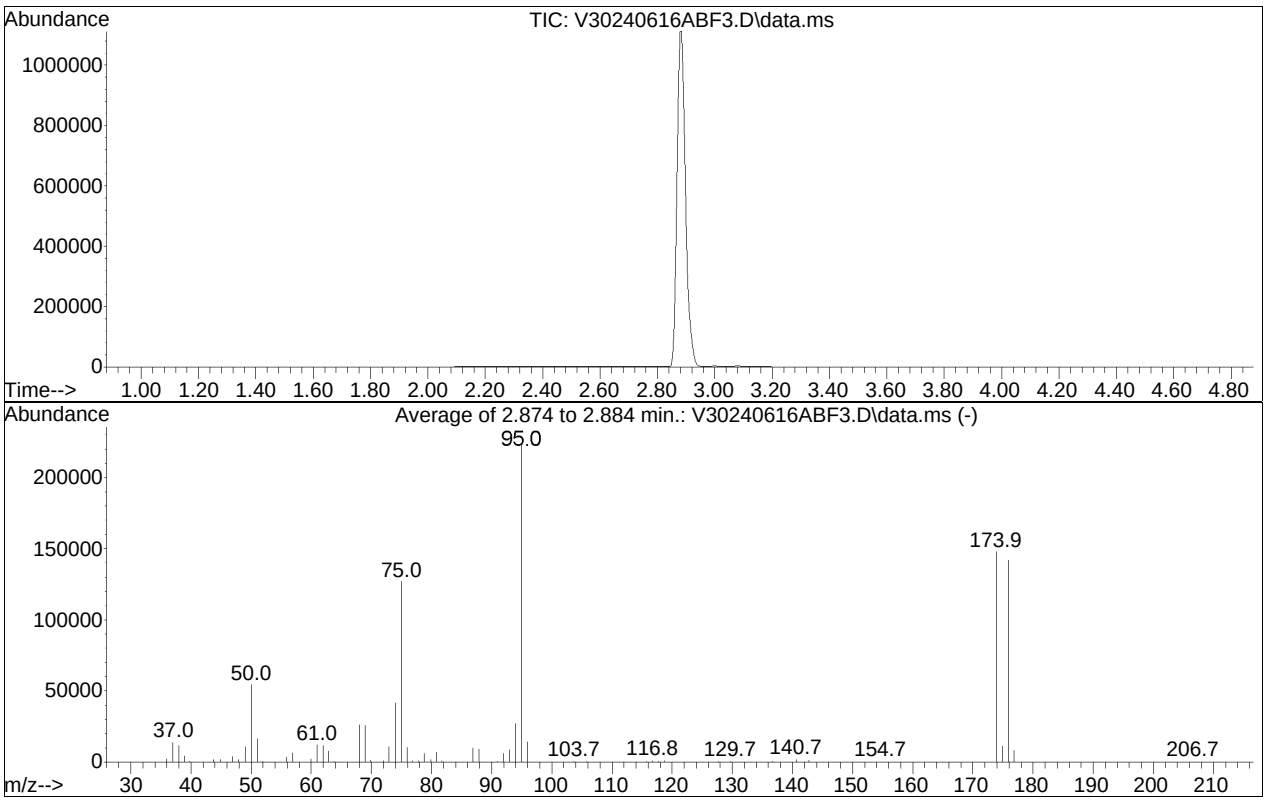
Manual Peak Response = 18841 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616ABF3.D
Acq On : 16 Jun 2024 07:01 am
Operator : VOA130:MJV
Sample : WG1935824-1
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 12 10:16:28 2024



Spectrum Information: Average of 2.874 to 2.884 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	54413	PASS
75	95	30	60	56.5	126840	PASS
95	95	100	100	100.0	224512	PASS
96	95	5	9	6.4	14450	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.9	147995	PASS
175	174	5	9	7.6	11225	PASS
176	174	95	101	96.0	142043	PASS
177	176	5	9	5.8	8227	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A05.D
Acq On : 16 Jun 2024 08:48 am
Operator : VOA130:MJV
Sample : WG1935824-5,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 10:17:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.110	96	384470	10.000 ug/L	0.00
Standard Area 1 = 452669			Recovery =	84.93%	
63) Chlorobenzene-d5	9.665	117	310171	10.000 ug/L	0.00
Standard Area 1 = 333131			Recovery =	93.11%	
84) 1,4-Dichlorobenzene-d4	12.349	152	160849	10.000 ug/L	0.00
Standard Area 1 = 181690			Recovery =	88.53%	
System Monitoring Compounds					
39) Dibromofluoromethane	5.292	113	118939	10.991 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.91%	
47) 1,2-Dichloroethane-d4	5.822	65	148968	11.429 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.29%	
64) Toluene-d8	7.814	98	408798	9.790 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.90%	
88) 4-Bromofluorobenzene	11.143	95	162286	10.843 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.43%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.879	50	629	N.D.	
4) Vinyl chloride	1.942	62	324	N.D.	
5) Bromomethane	2.262	94	317	N.D.	
6) Chloroethane	2.330	64	57	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	3.027	96	62	N.D.	
11) Carbon disulfide	3.053	76	4347	0.208 ug/L #	84
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.583	84	1660	0.193 ug/L	95
17) Acetone	3.630	43	940	Below Cal #	50
18) trans-1,2-Dichloroethene	3.740	96	435	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.857	96	50	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	0.000		0	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A05.D
Acq On : 16 Jun 2024 08:48 am
Operator : VOA130:MJV
Sample : WG1935824-5,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 10:17:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	5.250	43	49		N.D.	
45)	Benzene	5.706	78	53		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	0.000		0		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	7.867	92	641		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	9.681	112	317		N.D.	
79)	Ethylbenzene	9.733	91	346		N.D.	
81)	p/m Xylene	0.000		0		N.D.	
82)	o Xylene	0.000		0		N.D.	
83)	Styrene	10.546	104	180		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	10.834	105	108		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	12.281	146	254		N.D.	
106)	1,4-Dichlorobenzene	12.370	146	590		N.D.	
109)	1,2-Dichlorobenzene	12.790	146	113		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	14.205	180	338		N.D.	
116)	1,2,3-Trichlorobenzene	14.662	180	117		N.D.	

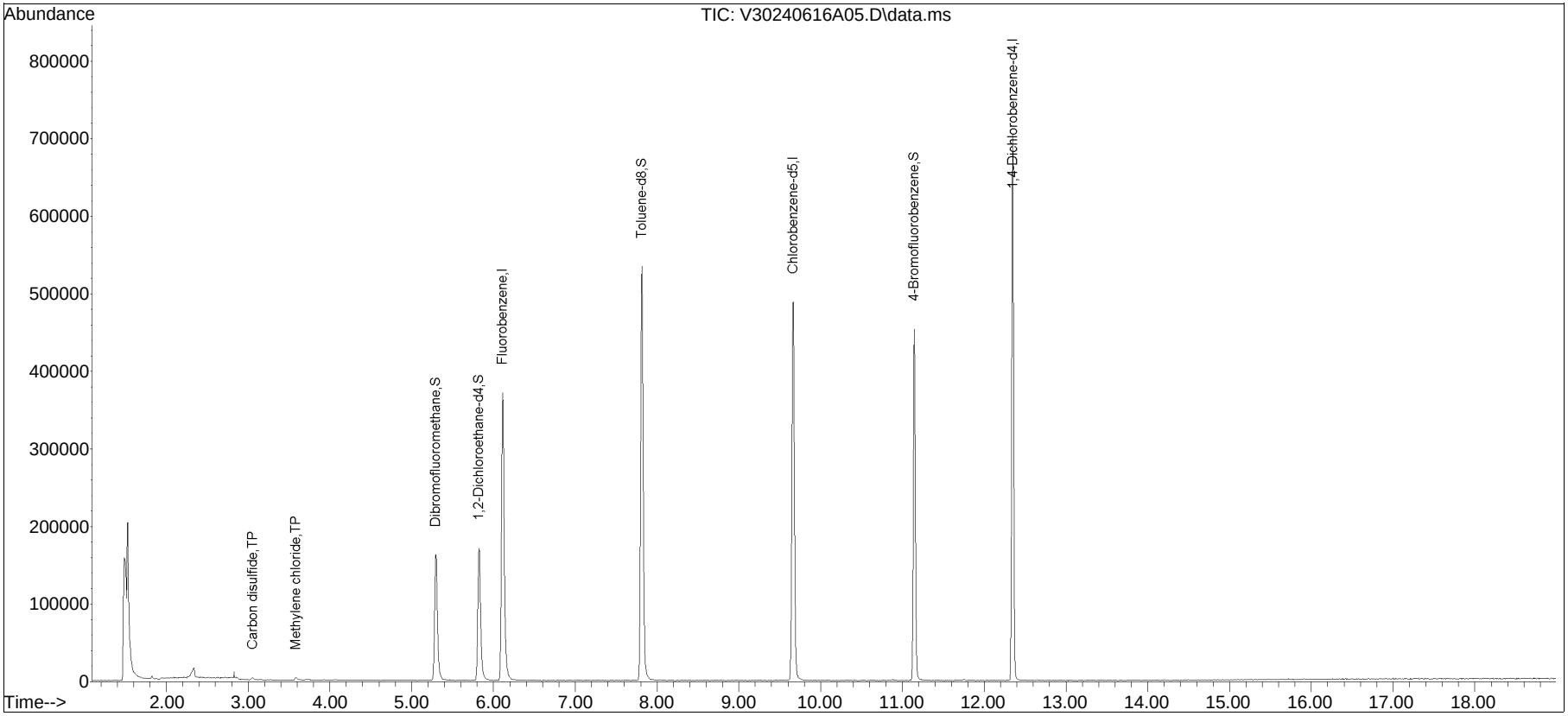
(#) = qualifier out of range (m) = manual integration (+) = signals summed

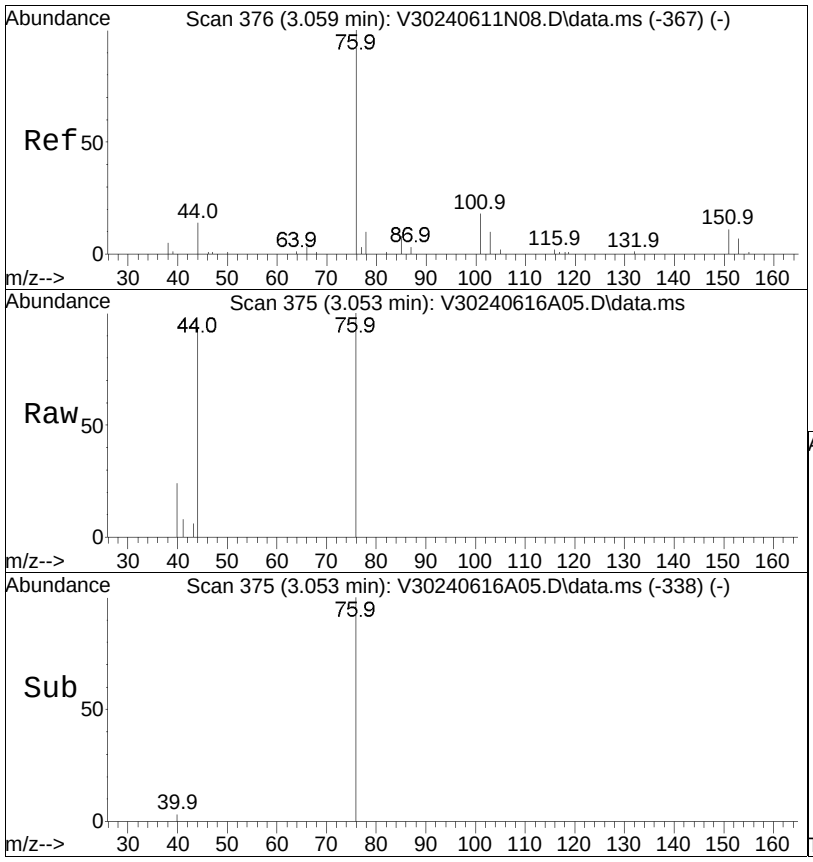
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A05.D
Acq On : 16 Jun 2024 08:48 am
Operator : VOA130:MJV
Sample : WG1935824-5,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 10:17:32 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

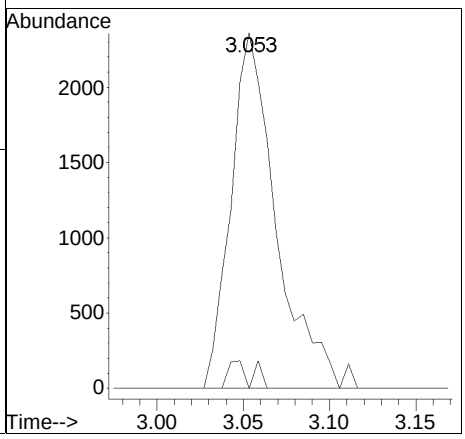


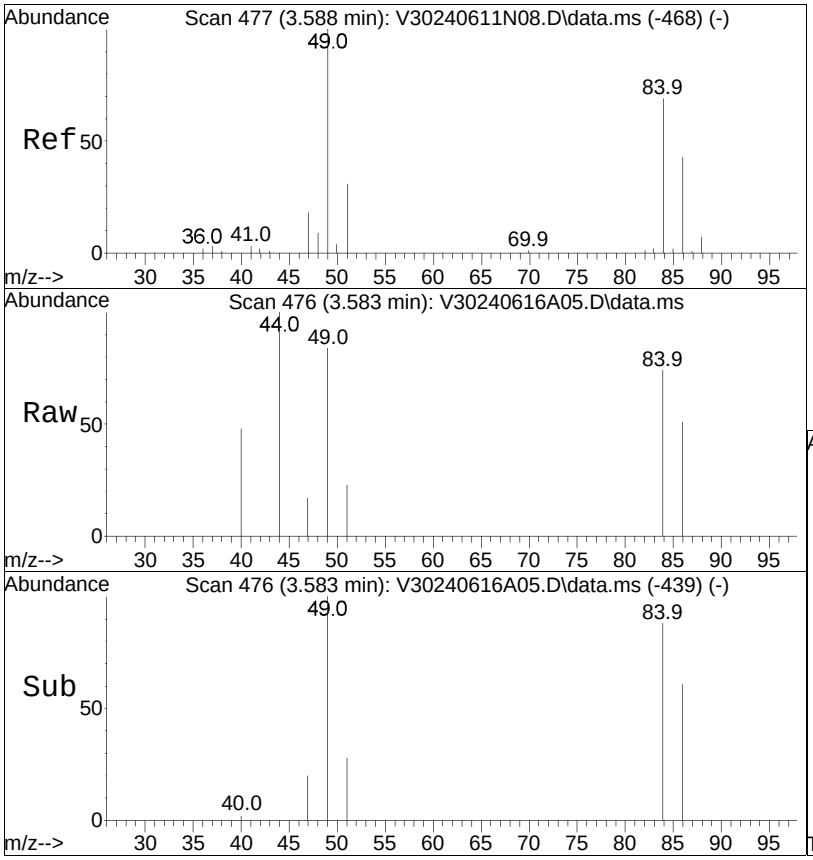


#11
Carbon disulfide
Concen: 0.21 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A05.D
Acq: 16 Jun 2024 08:48 am

Tgt Ion: 76 Resp: 4347

Ion	Ratio	Lower	Upper
76	100		
78	3.9	6.4	13.4#

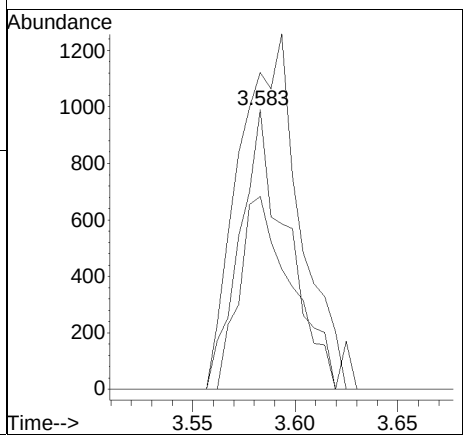




#15
Methylene chloride
Concen: 0.19 ug/L
RT: 3.583 min Scan# 476
Delta R.T. -0.005 min
Lab File: V30240616A05.D
Acq: 16 Jun 2024 08:48 am

Tgt Ion: 84 Resp: 1660

Ion	Ratio	Lower	Upper
84	100		
86	72.2	41.7	86.5
49	155.5	103.9	215.9



Manual Integration Report

Data Path	: K:\VOA130\2024\240616A\	QMethod	: V130_240611N_8260D.m
Data File	: V30240616A05.D	Operator	: VOA130:MJV
Date Inj'd	: 6/16/2024 8:48 am	Instrument	: VOA130
Sample	: WG1935824-5,31,10,10	Quant Date	: 6/16/2024 10:16 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-3,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	452669	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 100.00%			
63) Chlorobenzene-d5	9.665	117	333131	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.349	152	181690	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.292	113	126323	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
47) 1,2-Dichloroethane-d4	5.822	65	165375	10.777	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.77%			
64) Toluene-d8	7.814	98	452474	10.090	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%			
88) 4-Bromofluorobenzene	11.143	95	176196	10.422	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	112663	11.688	ug/L	97
3) Chloromethane	1.868	50	136621	11.274	ug/L	99
4) Vinyl chloride	1.947	62	134669	12.330	ug/L	99
5) Bromomethane	2.262	94	46918	8.700	ug/L	98
6) Chloroethane	2.377	64	78339	11.341	ug/L	98
7) Trichlorofluoromethane	2.529	101	147469	12.028	ug/L	99
10) 1,1-Dichloroethene	3.022	96	86927	11.566	ug/L	96
11) Carbon disulfide	3.053	76	289969	11.786	ug/L	99
12) Freon-113	3.064	101	88609	11.906	ug/L	100
15) Methylene chloride	3.583	84	107690	10.637	ug/L	99
17) Acetone	3.619	43	22724	11.230	ug/L	94
18) trans-1,2-Dichloroethene	3.740	96	94220	11.357	ug/L	98
19) Methyl acetate	3.740	43	49205	9.583	ug/L #	93
21) Methyl tert-butyl ether	3.845	73	180096	9.962	ug/L	98
25) 1,1-Dichloroethane	4.327	63	215588	11.607	ug/L	99
30) cis-1,2-Dichloroethene	4.846	96	103640	10.891	ug/L	96
33) Bromochloromethane	5.046	128	43238	10.459	ug/L	91
34) Cyclohexane	5.056	56	191737	12.618	ug/L	99
35) Chloroform	5.114	83	185108	11.159	ug/L	97
37) Carbon tetrachloride	5.261	117	122613	12.304	ug/L	98

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-3,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.324	97	147732	11.729	ug/L		98
42) 2-Butanone	5.407	43	27308	9.775	ug/L		93
45) Benzene	5.691	78	380231	11.365	ug/L		100
48) 1,2-Dichloroethane	5.890	62	127959	10.997	ug/L		99
51) Methyl cyclohexane	6.288	83	140290	11.487	ug/L		100
52) Trichloroethene	6.293	95	90348	11.223	ug/L		100
55) 1,2-Dichloropropane	6.834	63	104991	11.222	ug/L		99
58) Bromodichloromethane	6.907	83	128584	10.890	ug/L		100
62) cis-1,3-Dichloropropene	7.599	75	137267	11.199	ug/L		89
65) Toluene	7.872	92	217806	10.729	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	17536	8.904	ug/L		95
67) Tetrachloroethene	8.323	166	73626	10.878	ug/L		98
69) trans-1,3-Dichloropropene	8.349	75	110789	10.705	ug/L	#	87
72) 1,1,2-Trichloroethane	8.532	83	53563	10.019	ug/L		99
73) Chlorodibromomethane	8.747	129	65591	9.450	ug/L		100
75) 1,2-Dibromoethane	9.030	107	55080	9.571	ug/L		100
77) 2-Hexanone	9.319	43	32807	8.907	ug/L		97
78) Chlorobenzene	9.686	112	218128	10.393	ug/L	#	84
79) Ethylbenzene	9.722	91	423648	11.071	ug/L		99
81) p/m Xylene	9.911	106	320513	21.975	ug/L		100
82) o Xylene	10.446	106	302045	21.550	ug/L		99
83) Styrene	10.514	104	501828	21.621	ug/L		100
85) Bromoform	10.535	173	34486	9.084	ug/L		100
87) Isopropylbenzene	10.829	105	390805	11.195	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.385	83	74407	9.553	ug/L		100
105) 1,3-Dichlorobenzene	12.271	146	173606	10.307	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	174347	10.069	ug/L		99
109) 1,2-Dichlorobenzene	12.784	146	160887	10.007	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.560	155	8963	8.436	ug/L		100
114) 1,2,4-Trichlorobenzene	14.195	180	102809	9.941	ug/L		100
116) 1,2,3-Trichlorobenzene	14.656	180	94576	9.874	ug/L		98

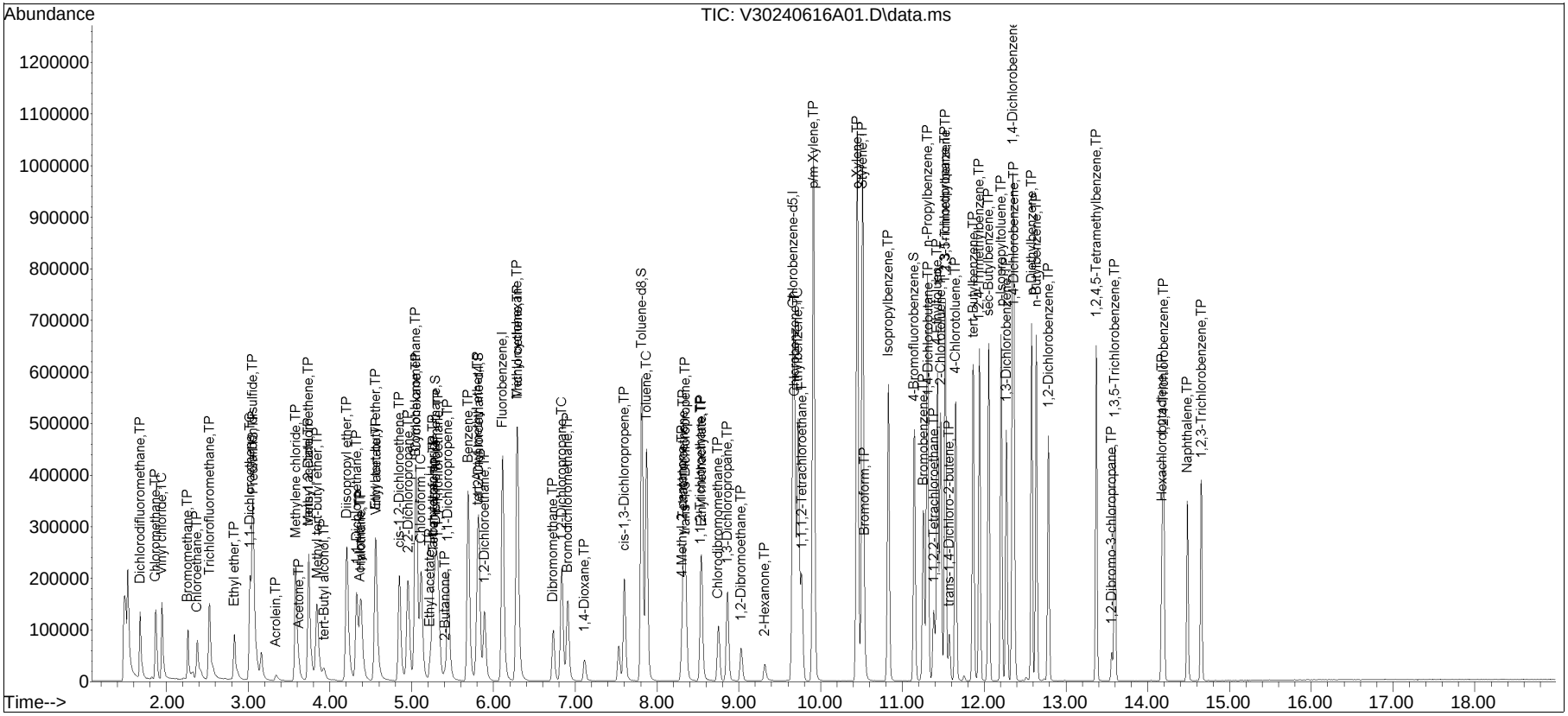
(#) = qualifier out of range (m) = manual integration (+) = signals summed

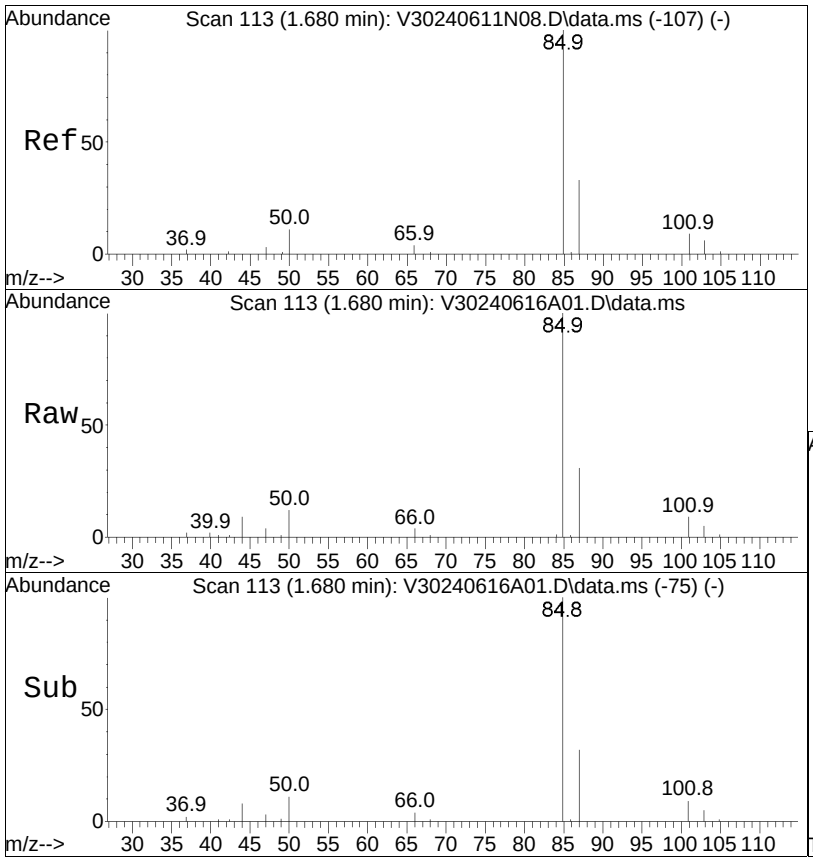
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A01.D
Acq On : 16 Jun 2024 07:19 am
Operator : VOA130:MJV
Sample : WG1935824-3,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:23:38 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

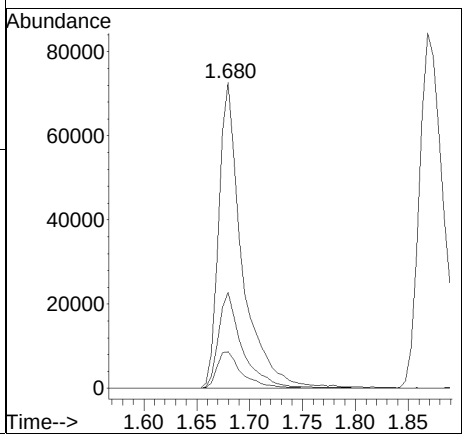


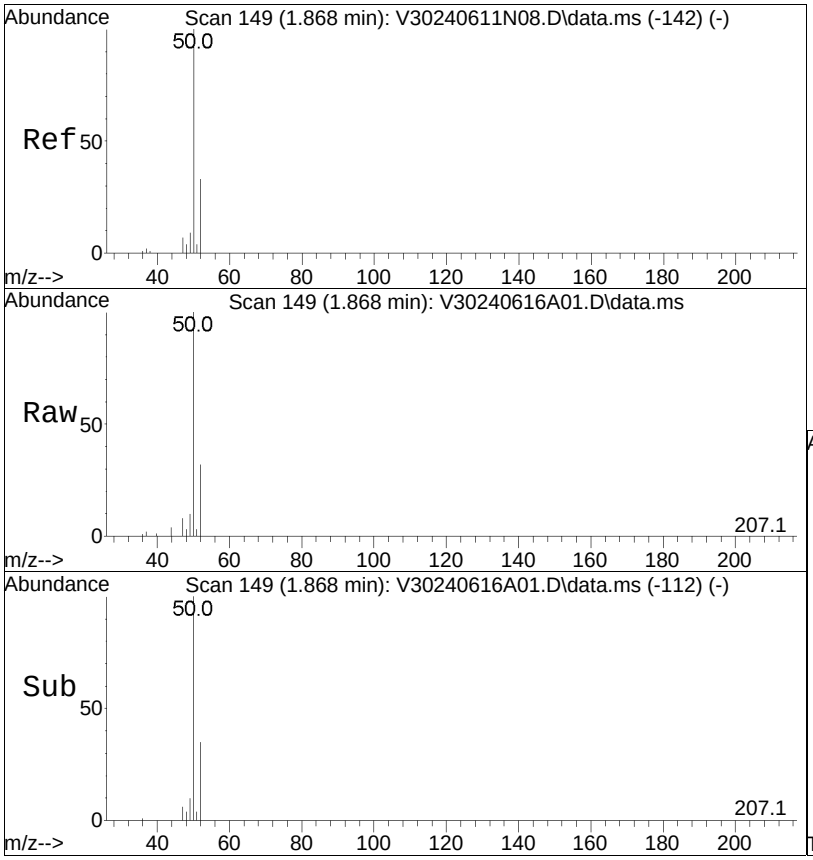


#2
Dichlorodifluoromethane
Concen: 11.69 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 85 Resp: 112663

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.2	42.0
50	12.9	10.1	20.9

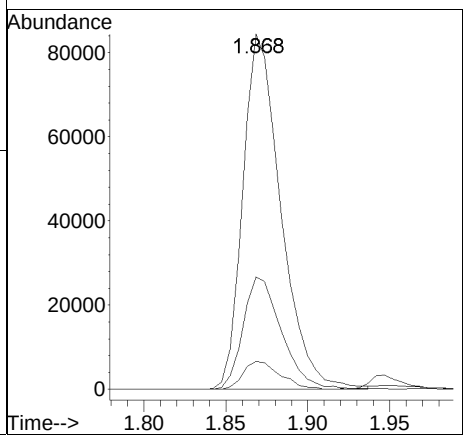


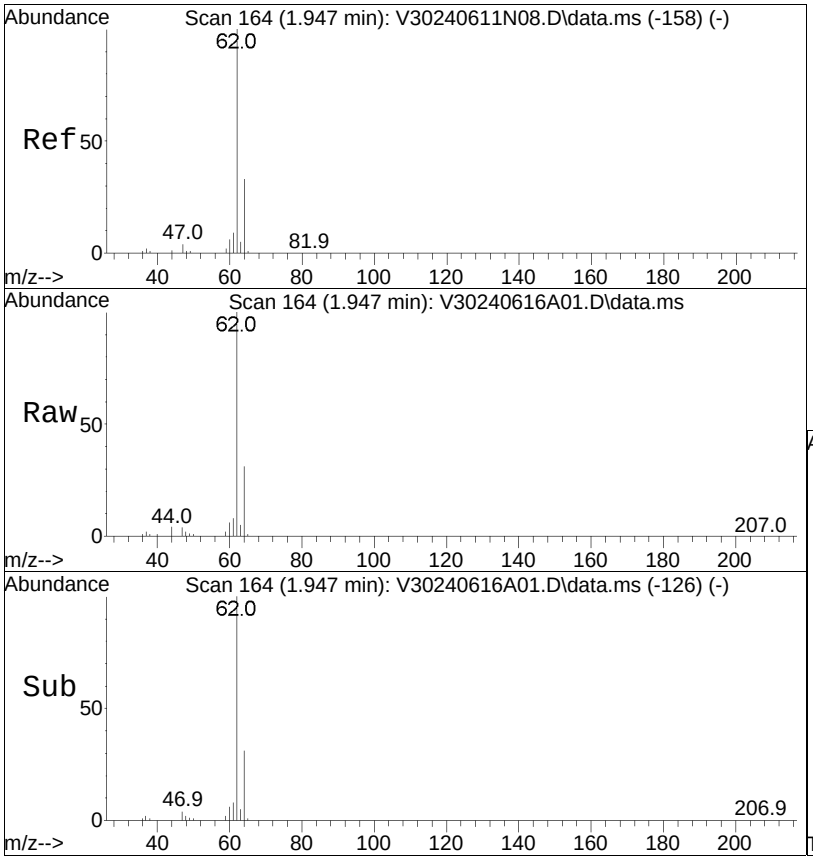


#3
Chloromethane
Concen: 11.27 ug/L
RT: 1.868 min Scan# 149
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 50 Resp: 136621

Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.1	37.7
47	7.7	6.5	9.7

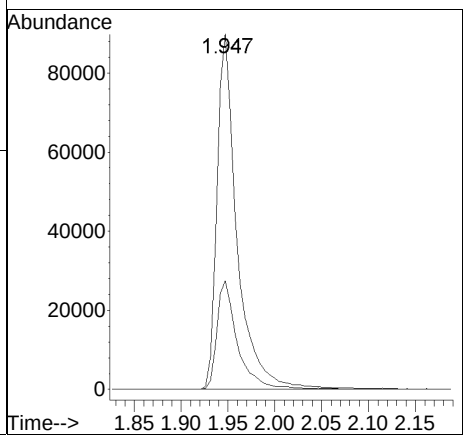


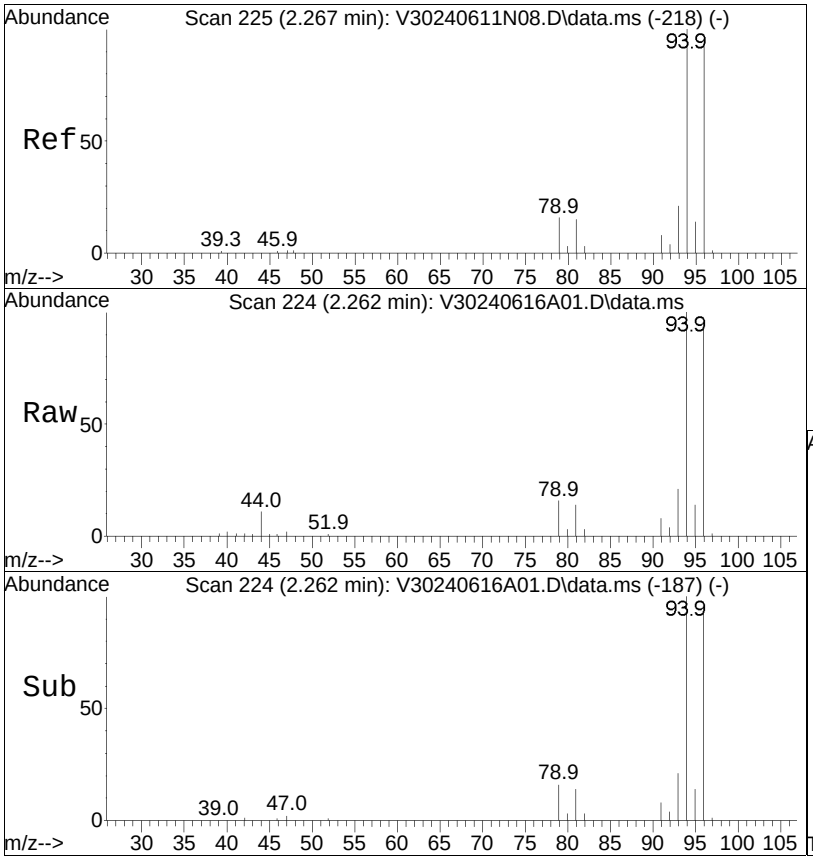


#4
Vinyl chloride
Concen: 12.33 ug/L
RT: 1.947 min Scan# 164
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 62 Resp: 134669

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.7	38.5

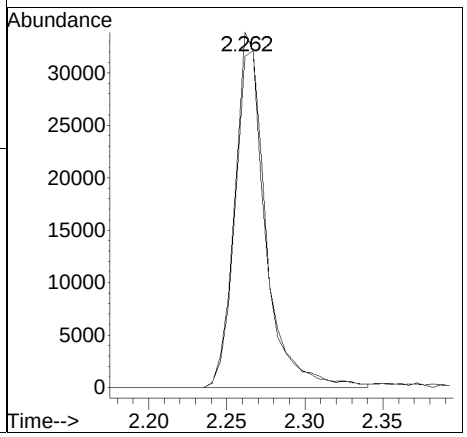


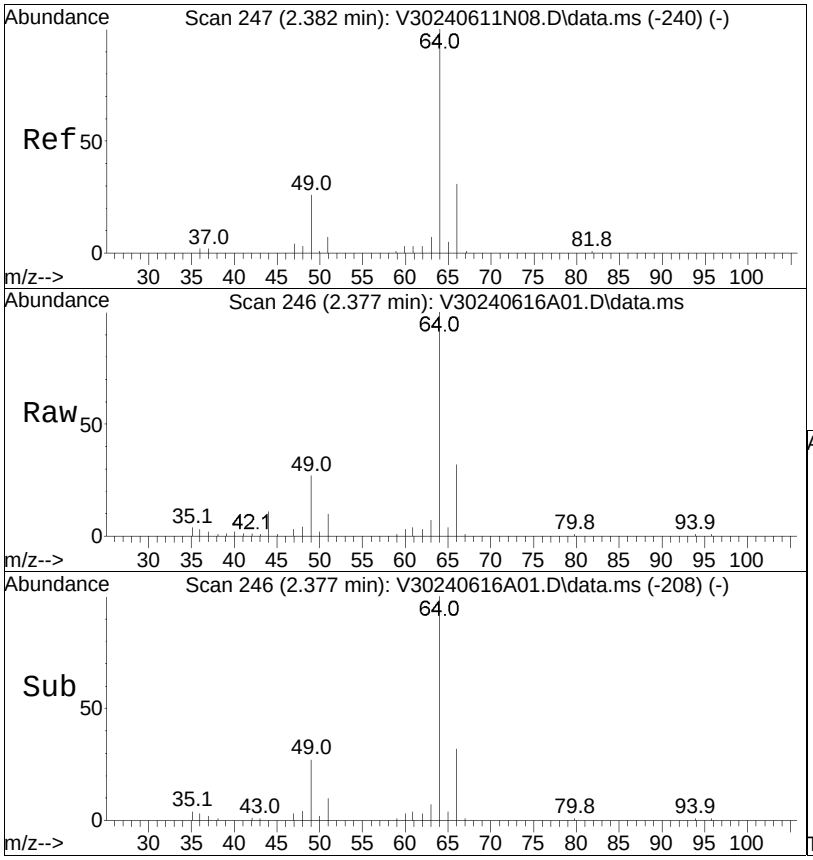


#5
Bromomethane
Concen: 8.70 ug/L
RT: 2.262 min Scan# 224
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 94 Resp: 46918

Ion	Ratio	Lower	Upper
94	100		
96	94.1	73.7	110.5

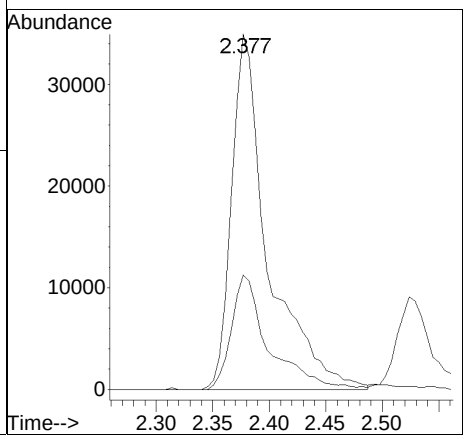


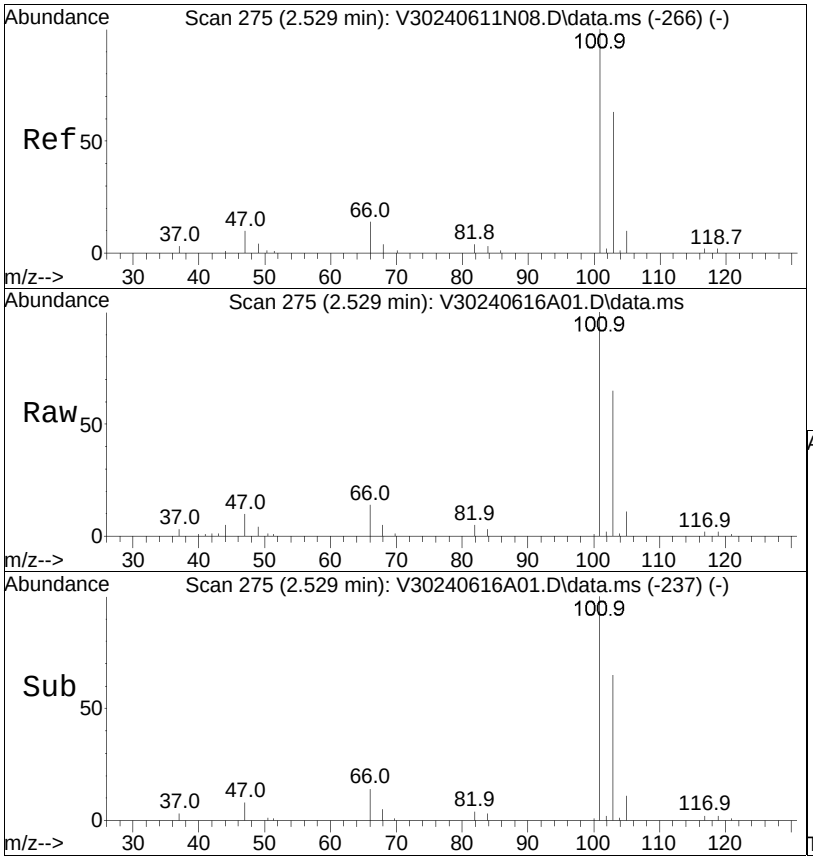


#6
Chloroethane
Concen: 11.34 ug/L
RT: 2.377 min Scan# 246
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 64 Resp: 78339

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.3	37.9

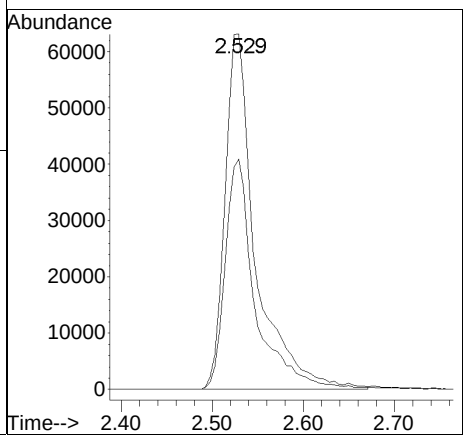


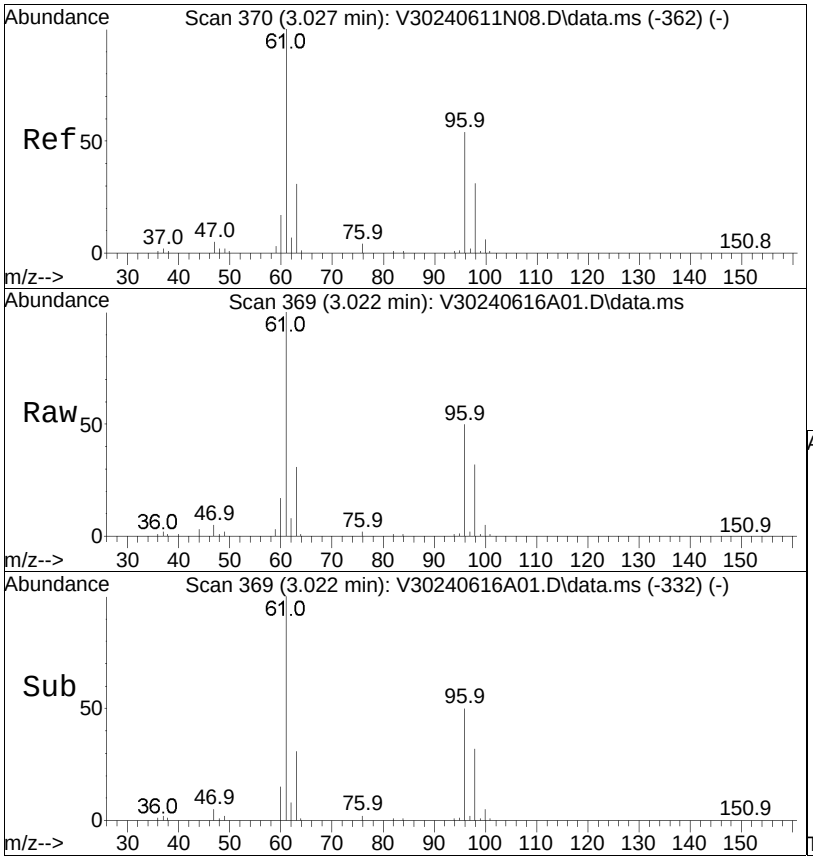


#7
Trichlorofluoromethane
Concen: 12.03 ug/L
RT: 2.529 min Scan# 275
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:101 Resp: 147469

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.0	76.4

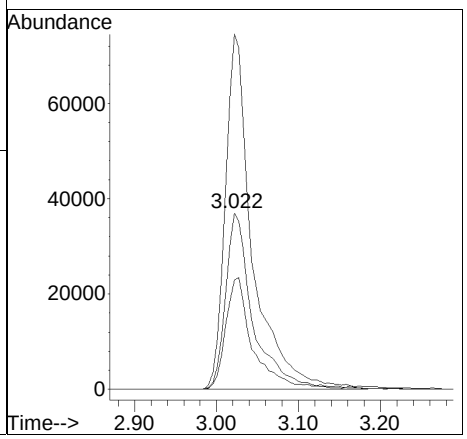


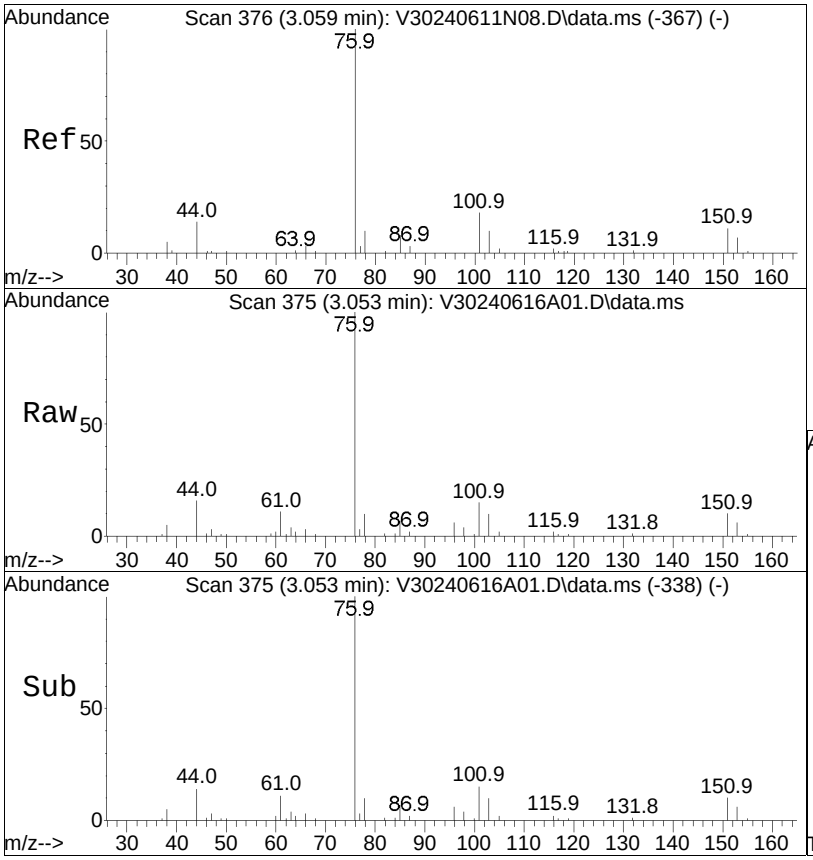


#10
1,1-Dichloroethene
Concen: 11.57 ug/L
RT: 3.022 min Scan# 369
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 96 Resp: 86927

Ion	Ratio	Lower	Upper
96	100		
61	199.4	165.5	248.3
63	62.6	51.9	77.9

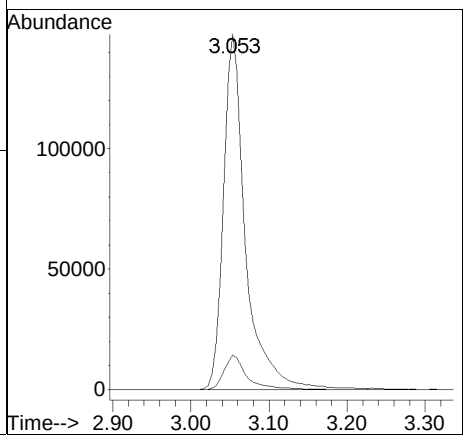


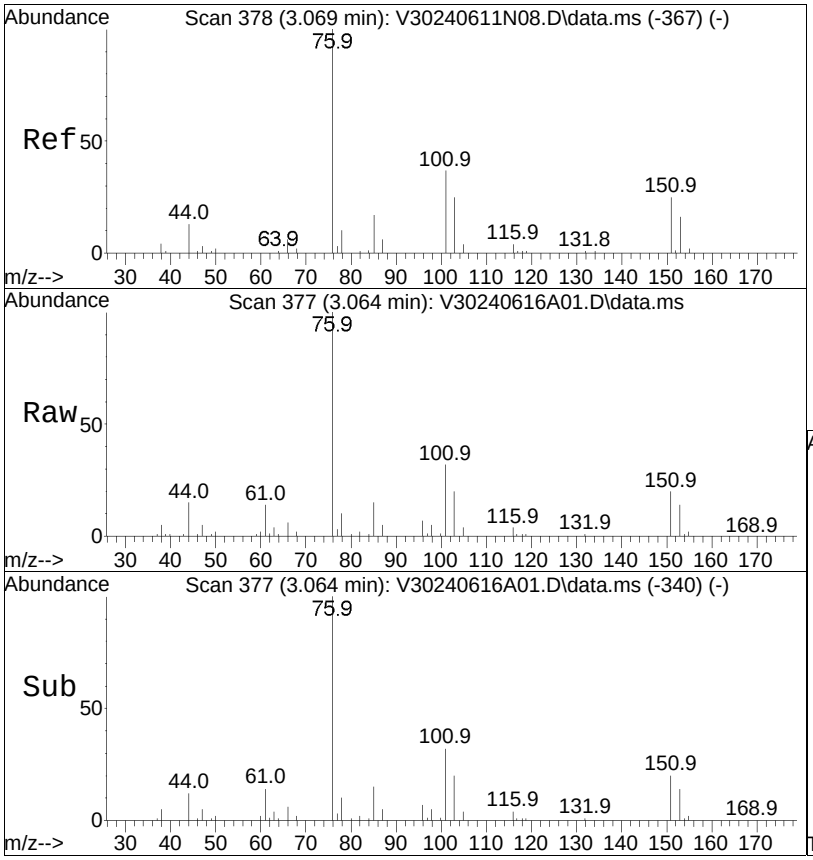


#11
Carbon disulfide
Concen: 11.79 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 76 Resp: 289969

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.4	13.4

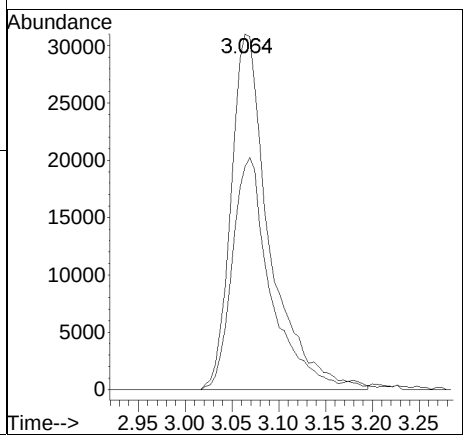


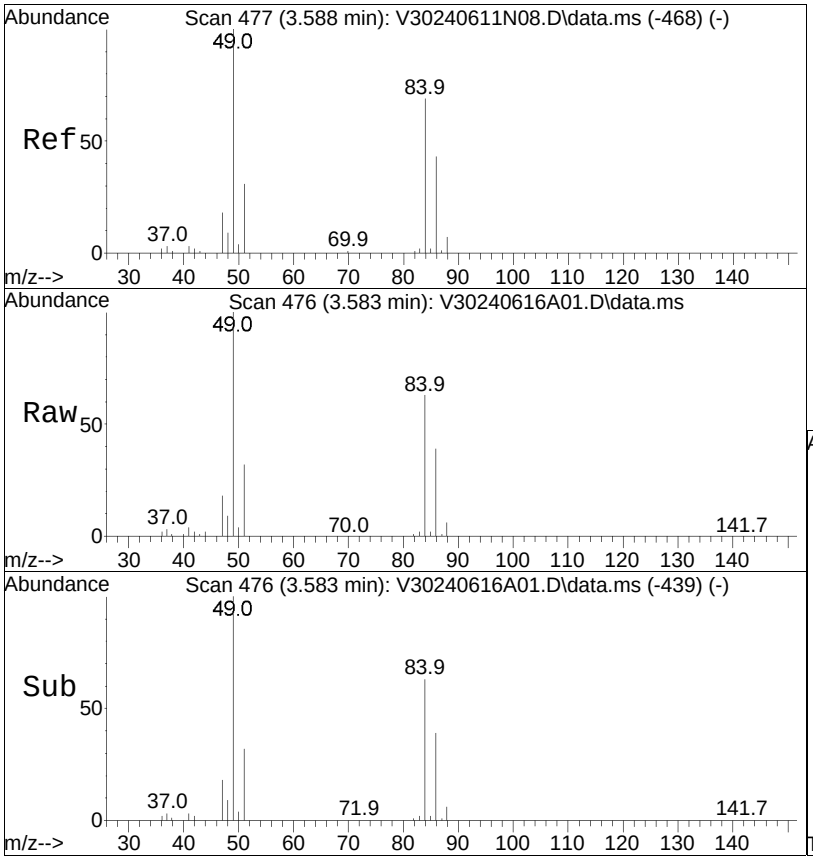


#12
Freon-113
Concen: 11.91 ug/L
RT: 3.064 min Scan# 377
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:101 Resp: 88609

Ion	Ratio	Lower	Upper
101	100		
151	64.8	51.9	77.9

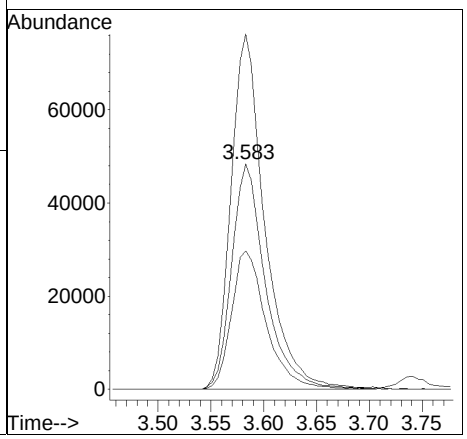


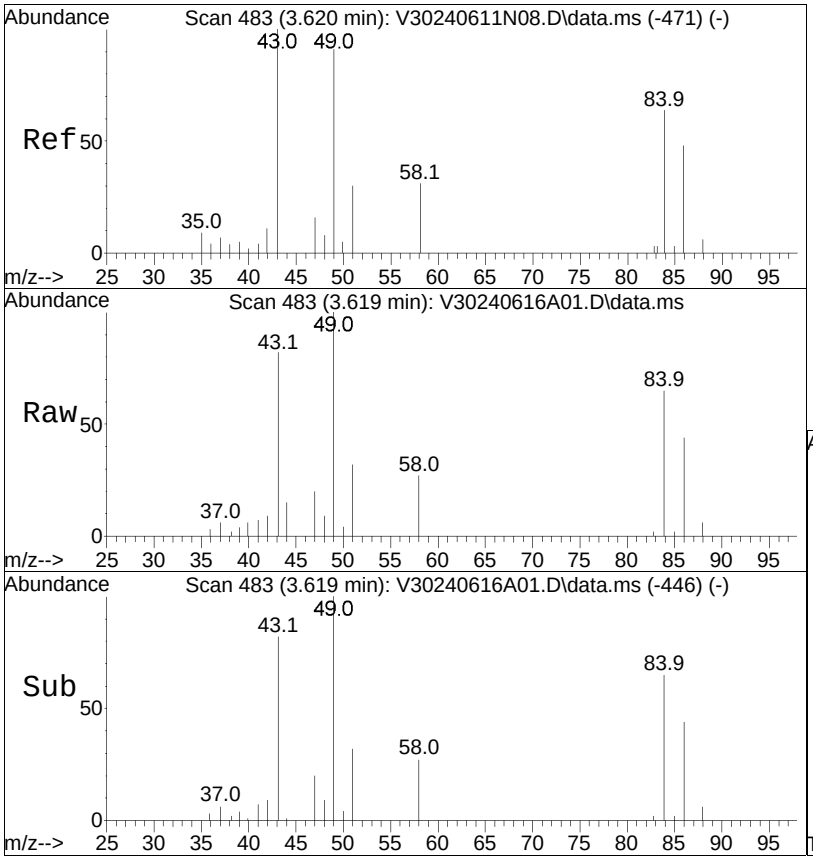


#15
Methylene chloride
Concen: 10.64 ug/L
RT: 3.583 min Scan# 476
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 84 Resp: 107690

Ion	Ratio	Lower	Upper
84	100		
86	63.5	41.7	86.5
49	157.9	103.9	215.9

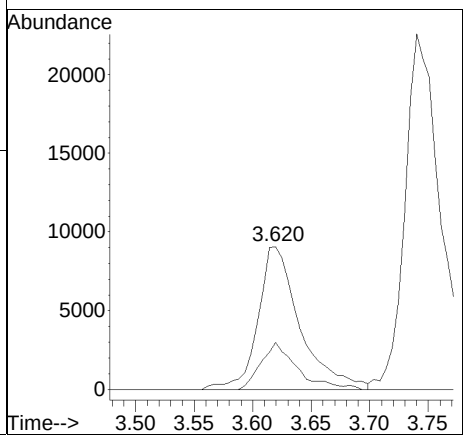


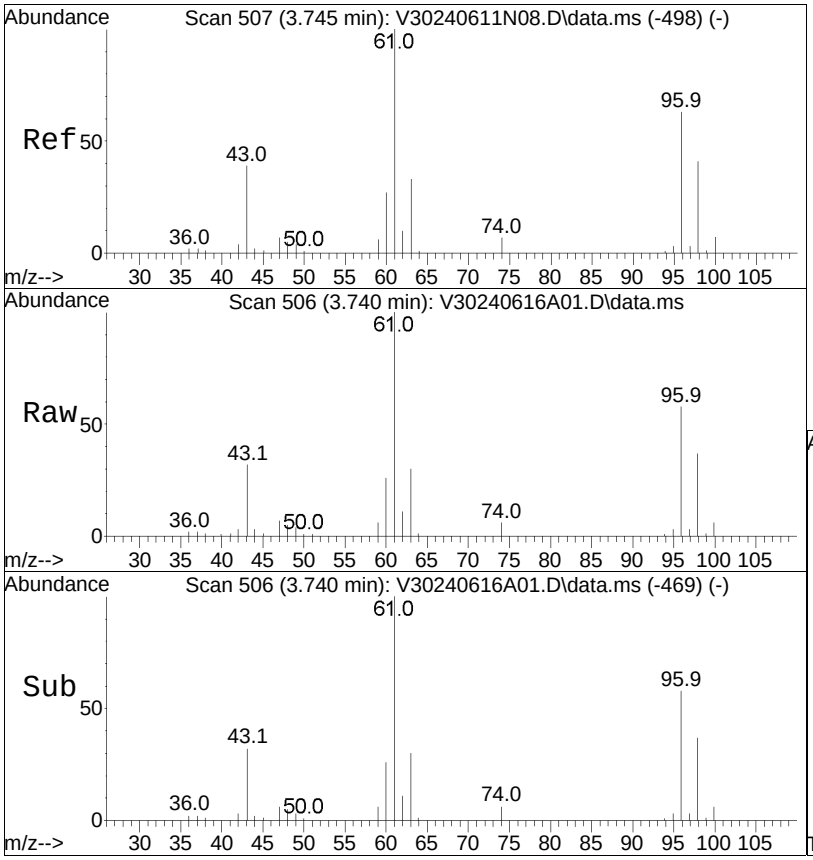


#17
Acetone
Concen: 11.23 ug/L
RT: 3.619 min Scan# 483
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 43 Resp: 22724

Ion	Ratio	Lower	Upper
43	100		
58	28.2	20.1	30.1

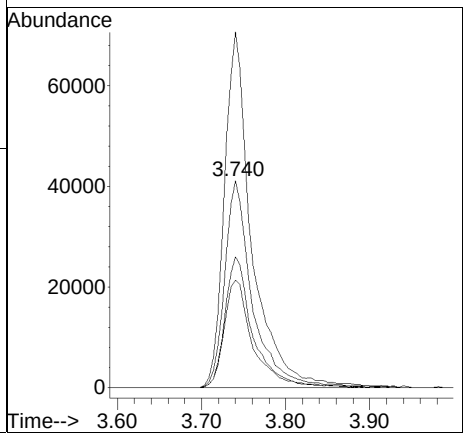


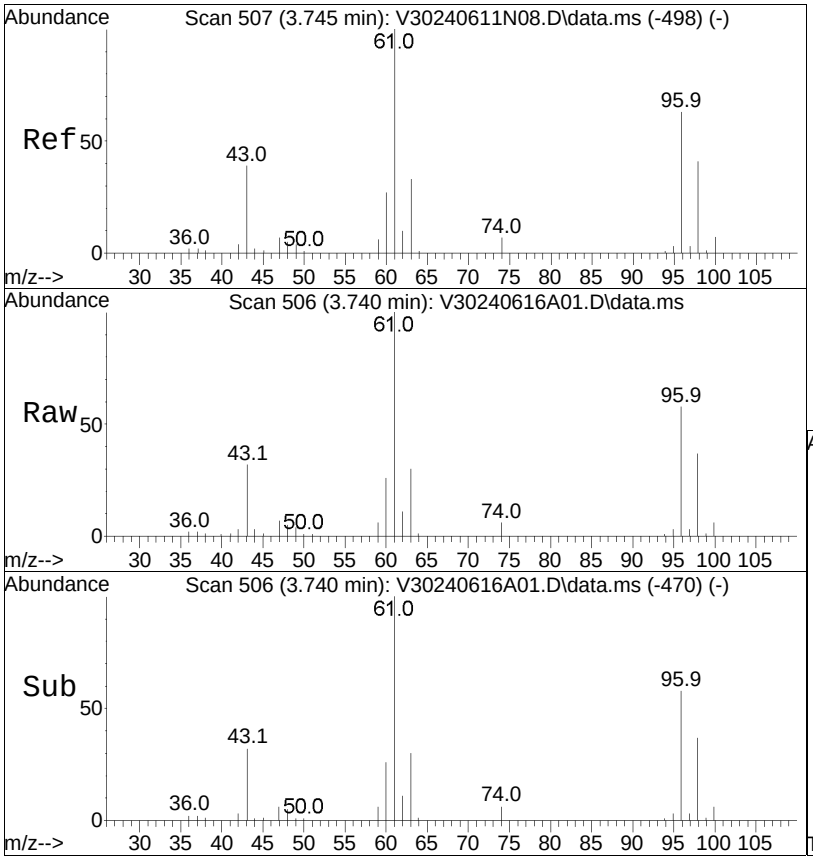


#18
trans-1,2-Dichloroethene
Concen: 11.36 ug/L
RT: 3.740 min Scan# 506
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 96 Resp: 94220

Ion	Ratio	Lower	Upper
96	100		
61	170.9	113.6	236.0
98	63.2	40.8	84.8
63	53.8	36.5	75.7

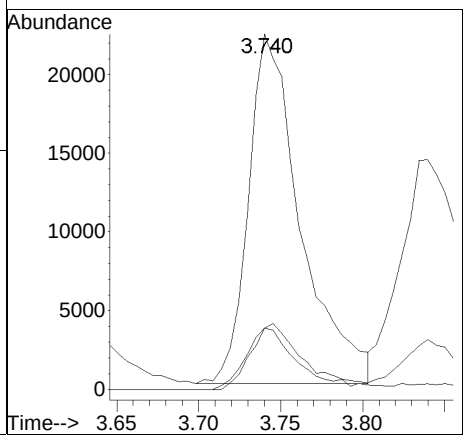


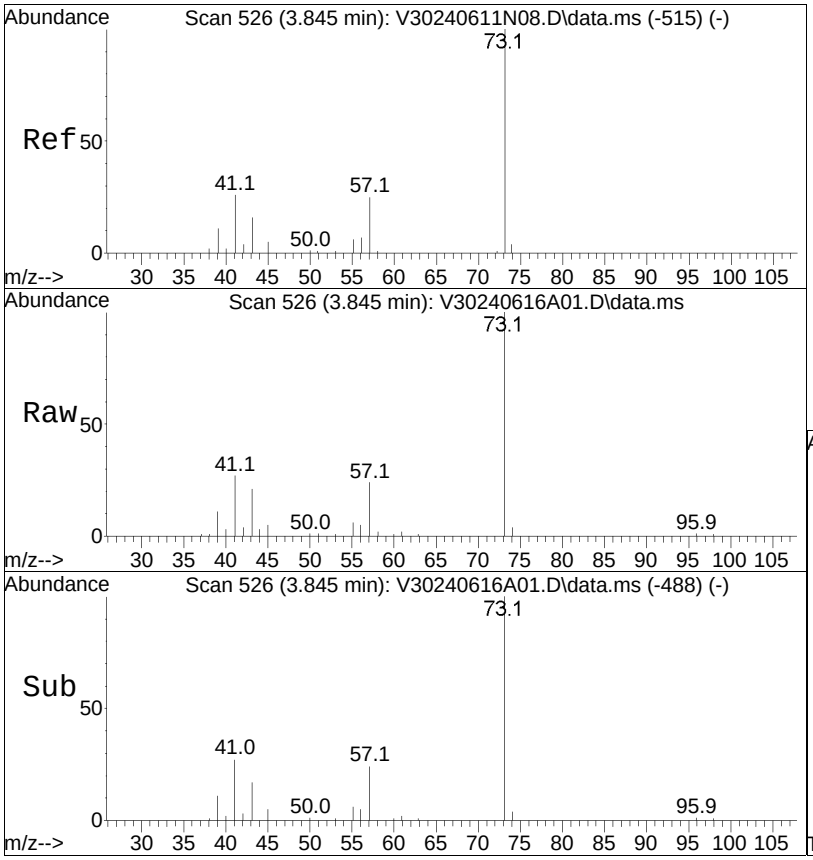


#19
Methyl acetate
Concen: 9.58 ug/L
RT: 3.740 min Scan# 506
Delta R.T. -0.011 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 43 Resp: 49205

Ion	Ratio	Lower	Upper
43	100		
74	19.0	14.6	22.0
59	17.7	9.3	13.9#

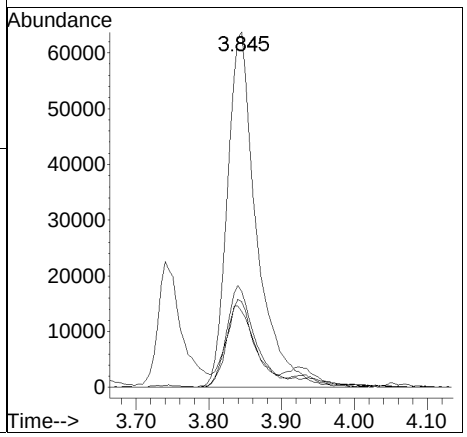


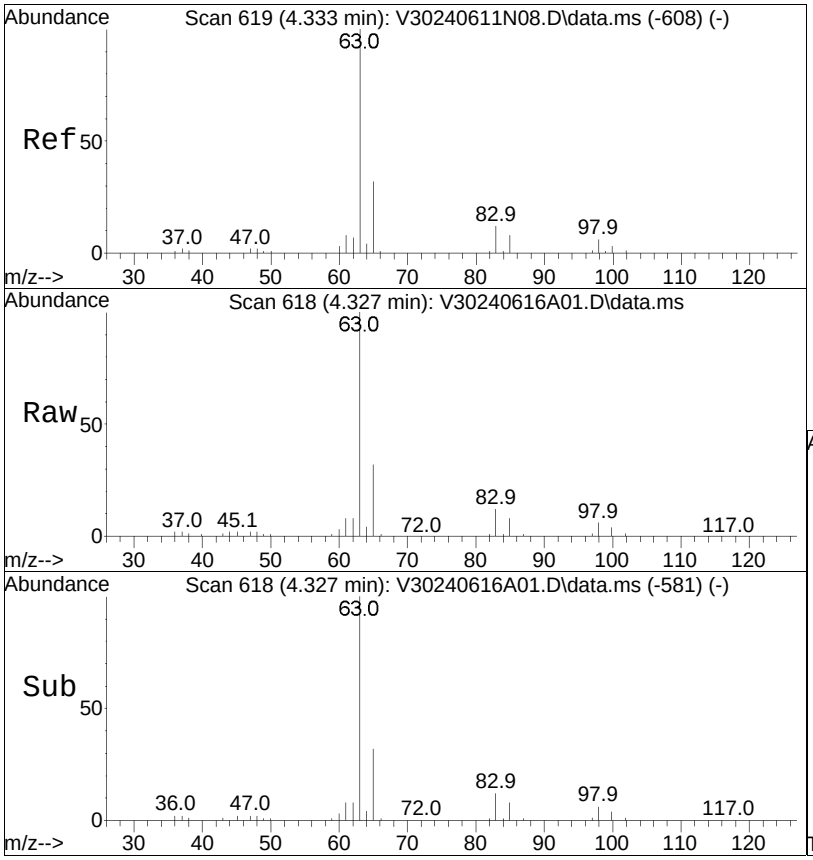


#21
Methyl tert-butyl ether
Concen: 9.96 ug/L
RT: 3.845 min Scan# 526
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 73 Resp: 180096

Ion	Ratio	Lower	Upper
73	100		
57	23.9	15.5	32.1
43	22.9	16.6	34.6
41	27.2	17.2	35.6

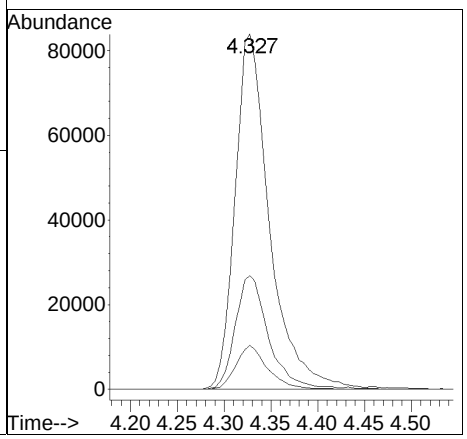


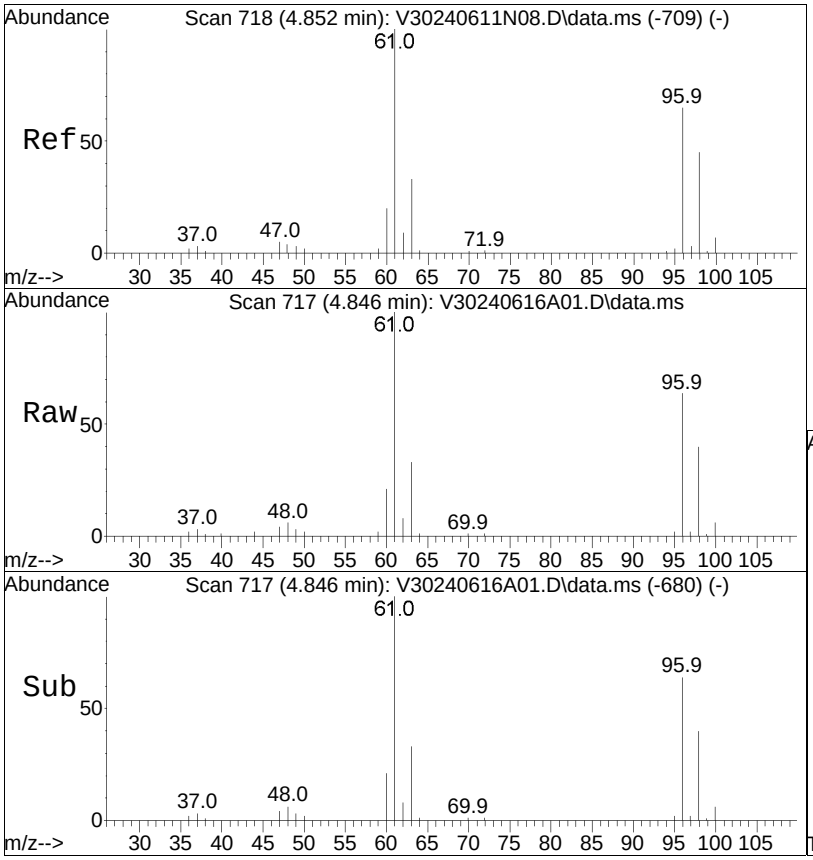


#25
1,1-Dichloroethane
Concen: 11.61 ug/L
RT: 4.327 min Scan# 618
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 63 Resp: 215588

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.5	36.7
83	11.5	8.9	13.3

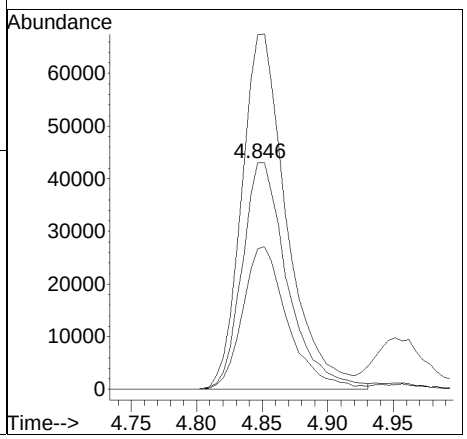


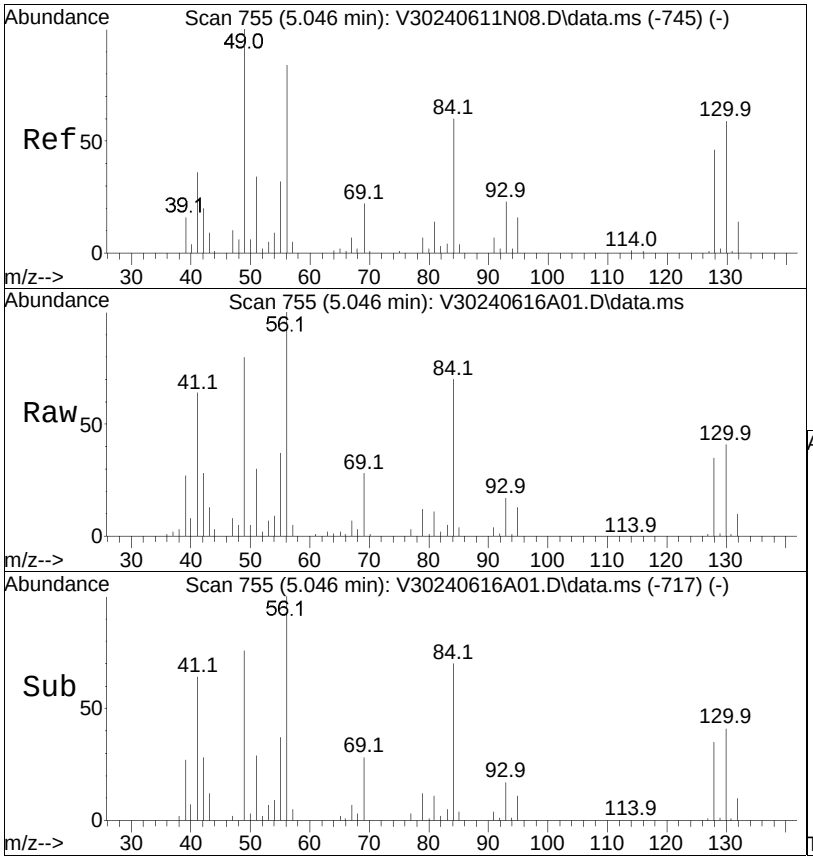


#30
cis-1,2-Dichloroethene
Concen: 10.89 ug/L
RT: 4.846 min Scan# 717
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 96 Resp: 103640

Ion	Ratio	Lower	Upper
96	100		
61	155.8	129.3	193.9
98	62.8	51.4	77.2

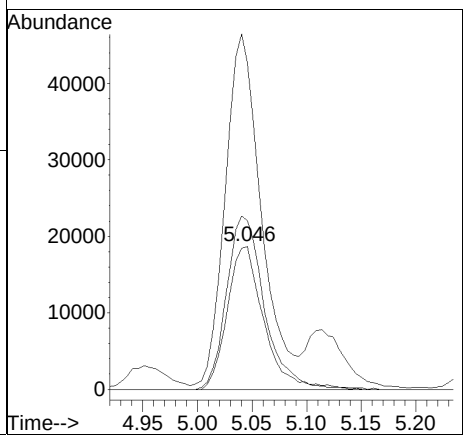


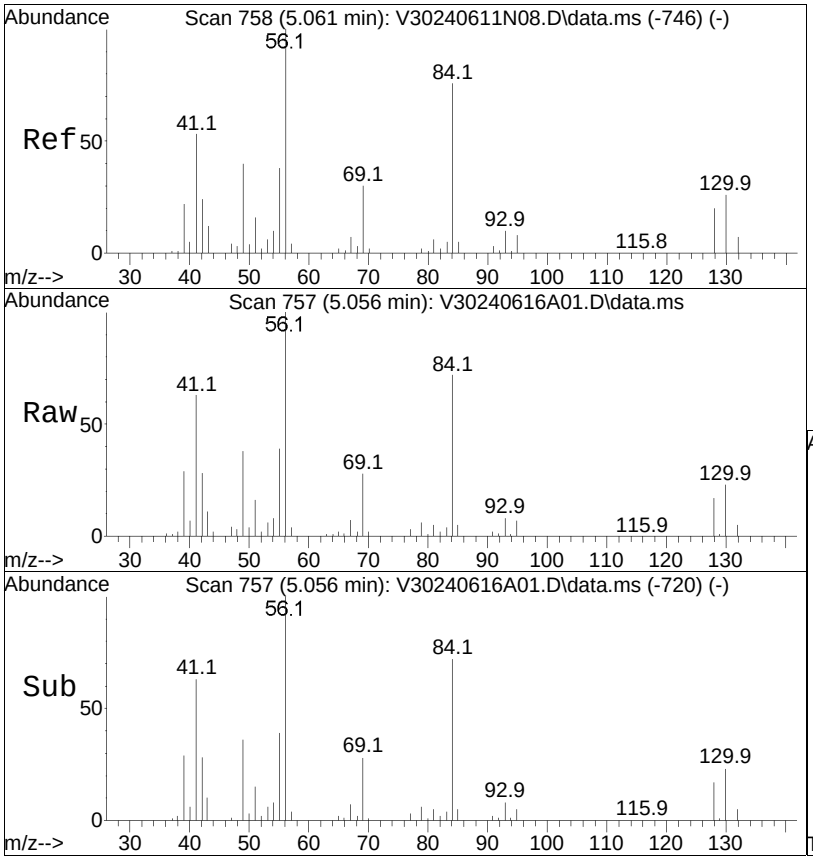


#33
Bromochloromethane
Concen: 10.46 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:128 Resp: 43238

Ion	Ratio	Lower	Upper
128	100		
49	247.4	214.8	322.2
130	126.5	105.4	158.2

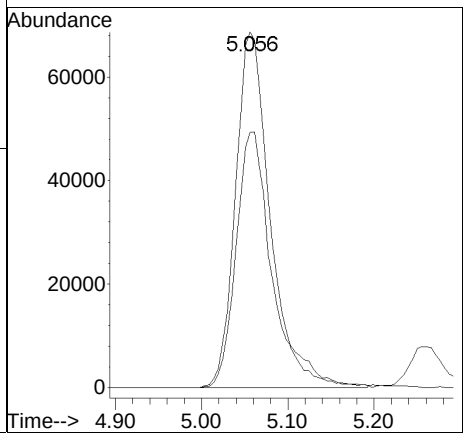


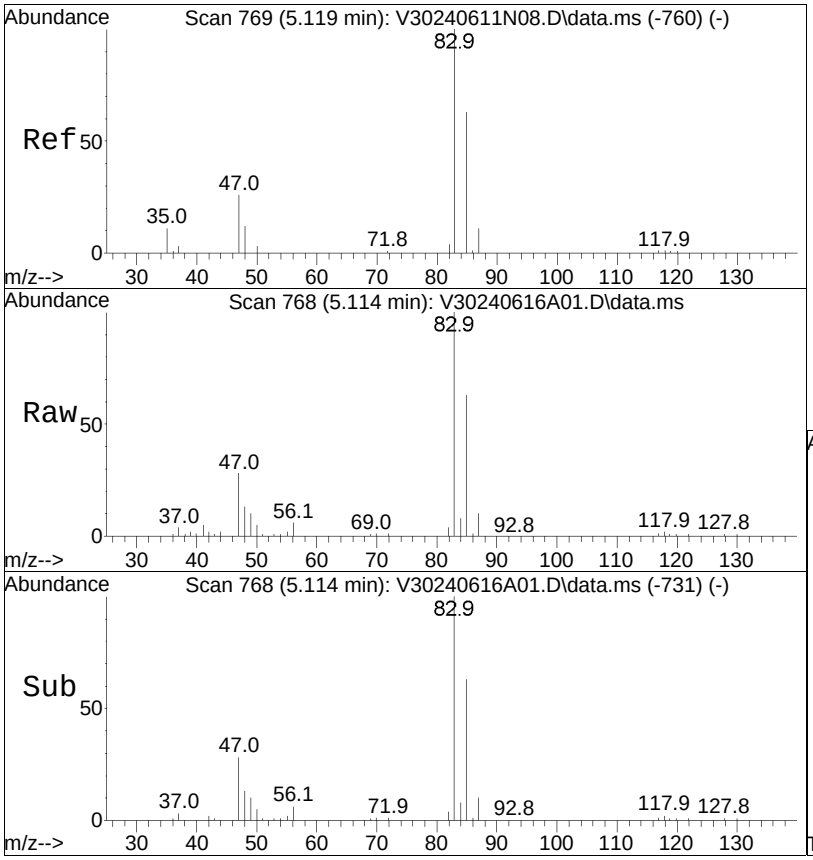


#34
Cyclohexane
Concen: 12.62 ug/L
RT: 5.056 min Scan# 757
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 56 Resp: 191737

Ion	Ratio	Lower	Upper
56	100		
84	75.6	49.9	103.5

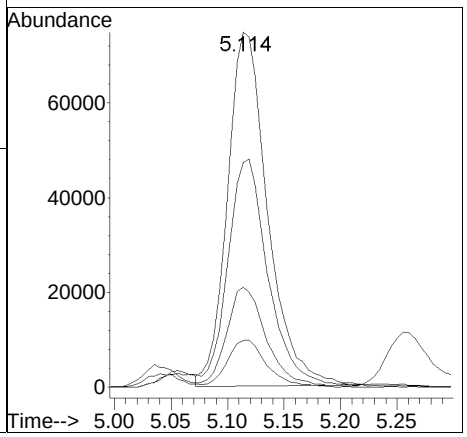


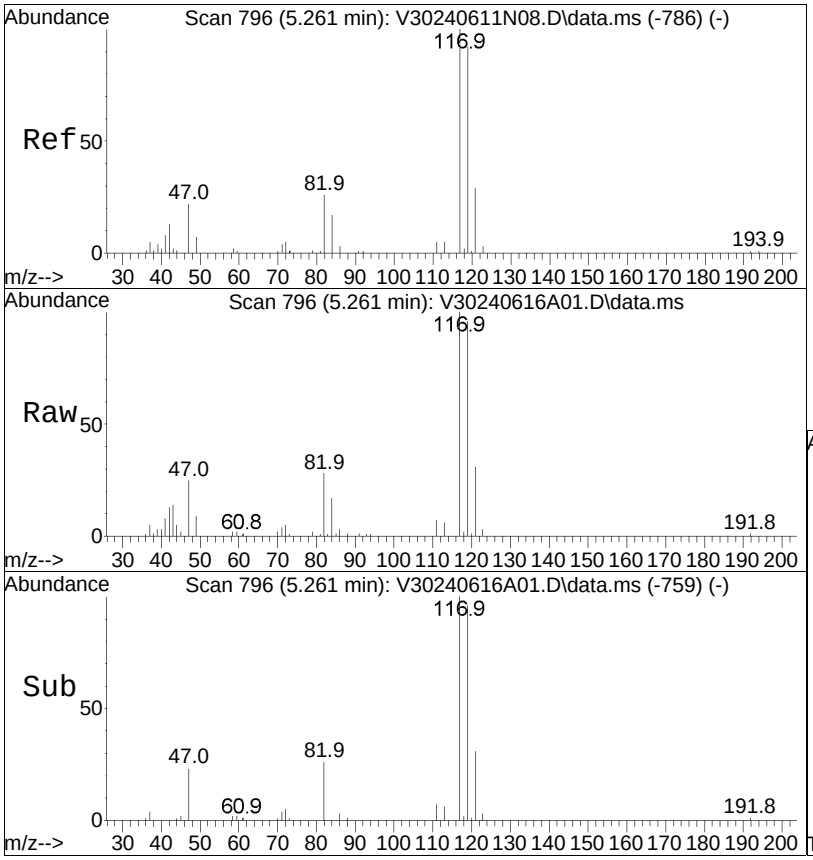


#35
Chloroform
Concen: 11.16 ug/L
RT: 5.114 min Scan# 768
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 83 Resp: 185108

Ion	Ratio	Lower	Upper
83	100		
85	64.3	41.4	86.0
47	27.1	20.5	42.5
48	13.3	9.9	20.5

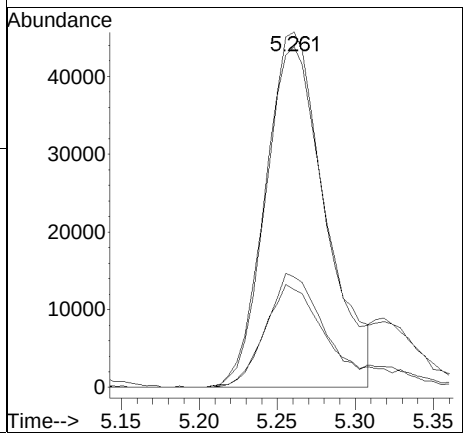


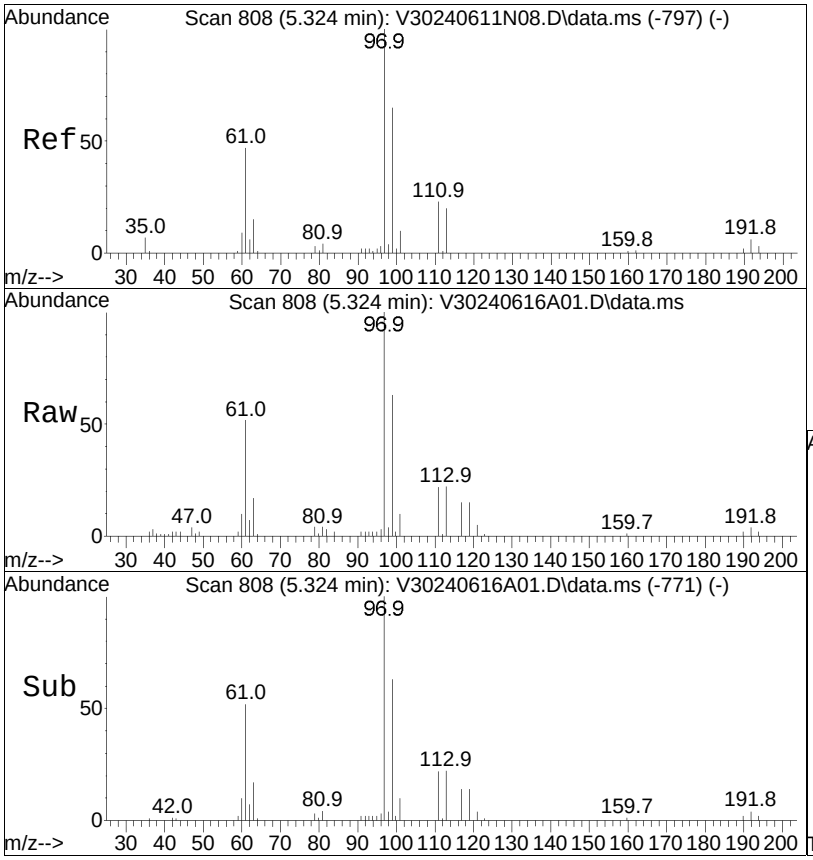


#37
Carbon tetrachloride
Concen: 12.30 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:117 Resp: 122613

Ion	Ratio	Lower	Upper
117	100		
119	95.8	62.0	128.8
121	30.4	19.6	40.6
82	33.2	18.8	39.0

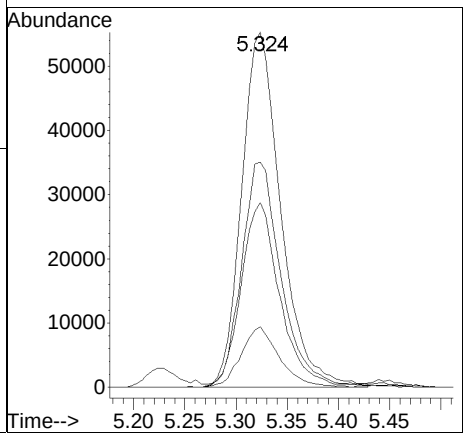


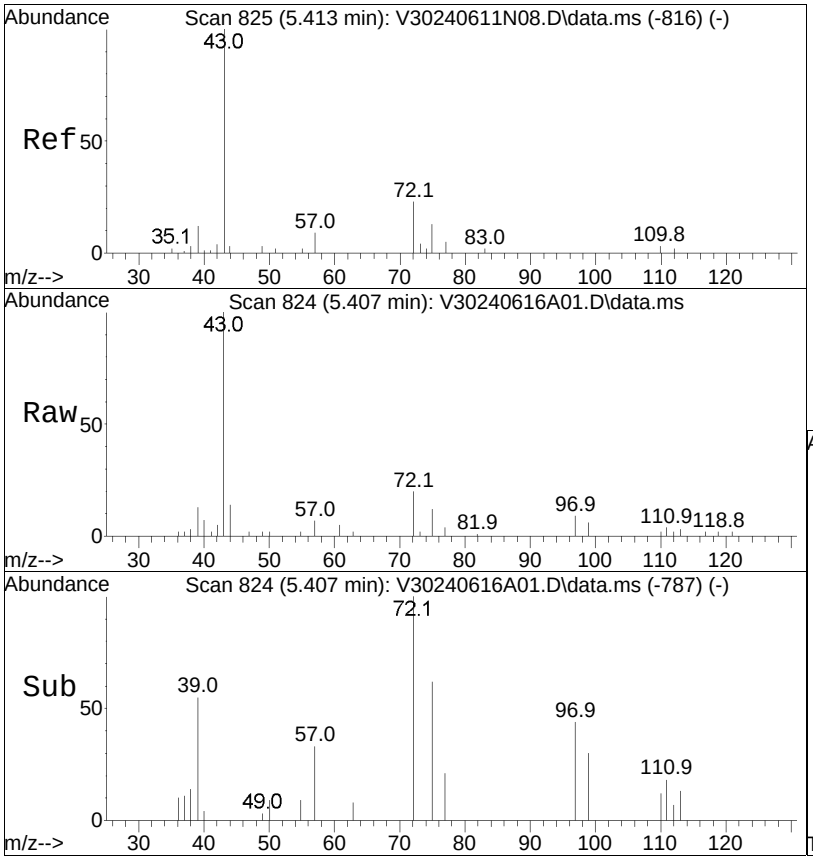


#40
1,1,1-Trichloroethane
Concen: 11.73 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 97 Resp: 147732

Ion	Ratio	Lower	Upper
97	100		
99	64.1	40.6	84.4
61	51.4	35.0	72.8
63	16.8	11.1	23.0

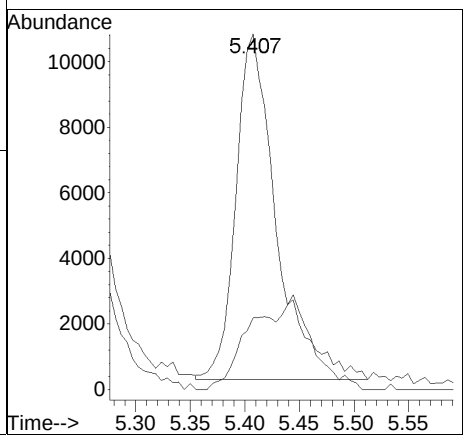


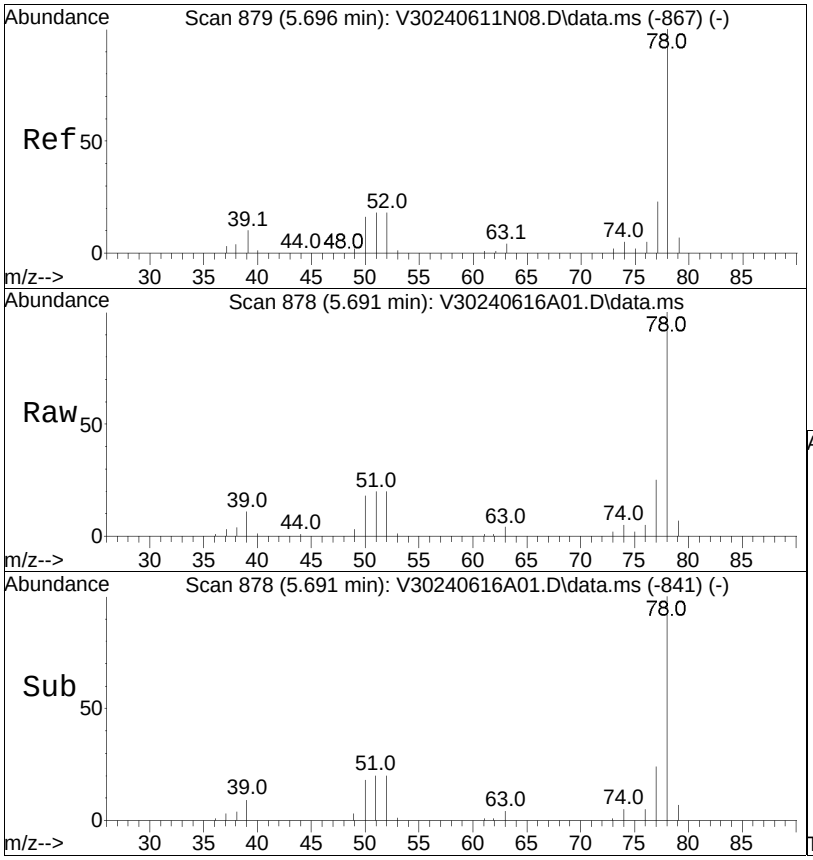


#42
2-Butanone
Concen: 9.78 ug/L
RT: 5.407 min Scan# 824
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 43 Resp: 27308

Ion	Ratio	Lower	Upper
43	100		
72	19.4	18.2	27.4

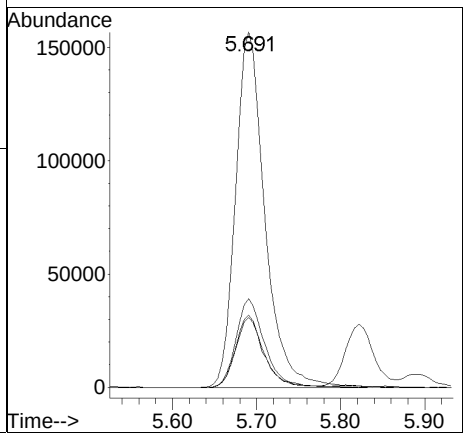


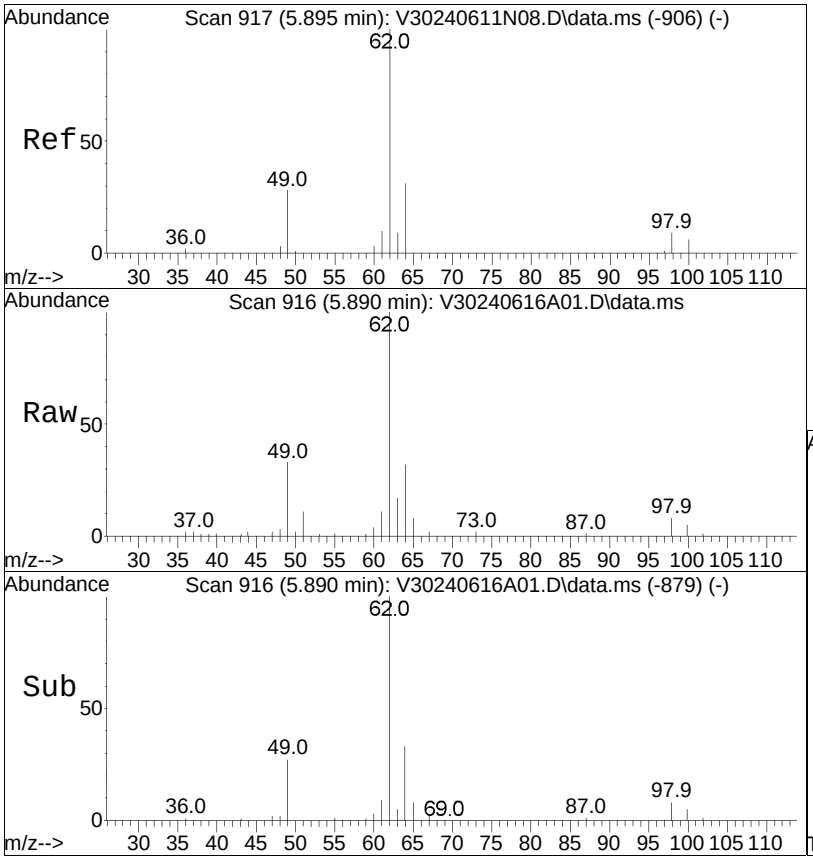


#45
Benzene
Concen: 11.36 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 78 Resp: 380231

Ion	Ratio	Lower	Upper
78	100		
77	24.4	15.6	32.4
51	19.6	12.9	26.7
52	19.0	12.4	25.7

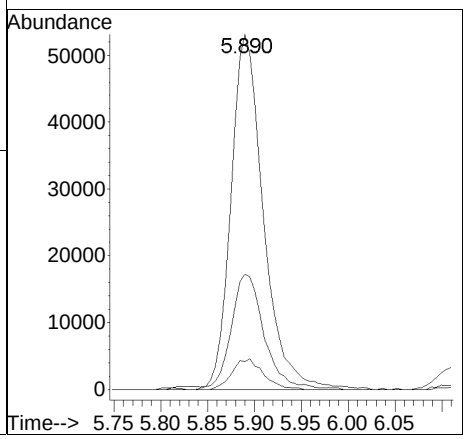


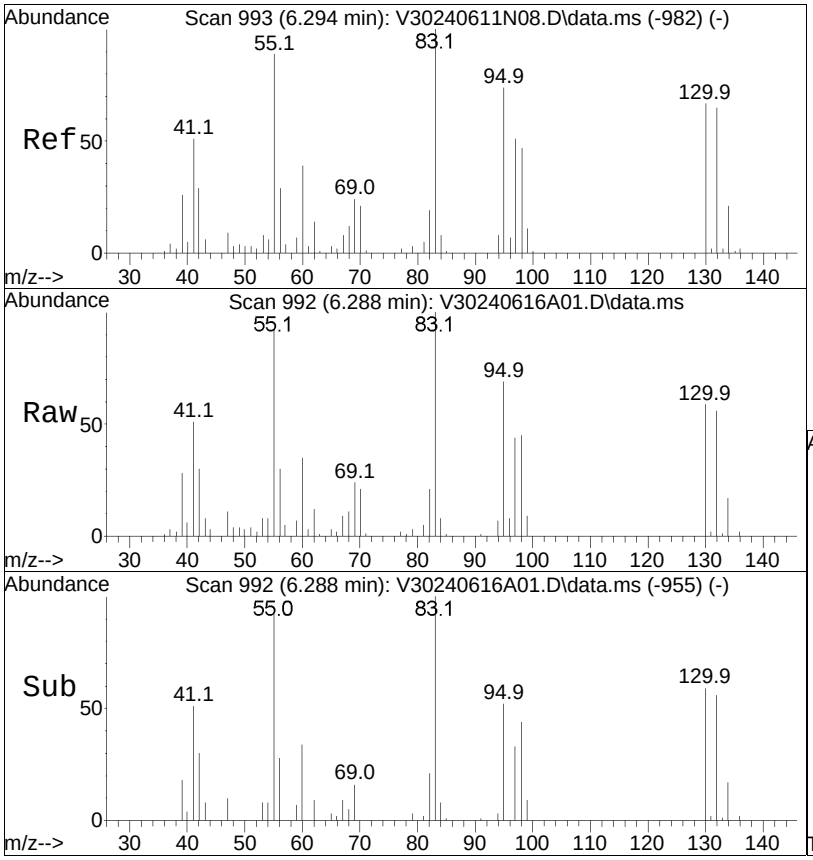


#48
1,2-Dichloroethane
Concen: 11.00 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 62 Resp: 127959

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.5	38.3
98	8.3	5.5	8.3

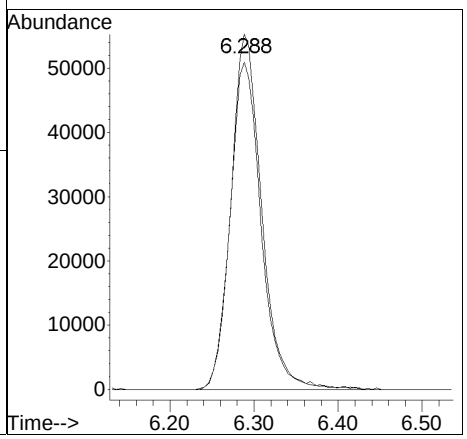


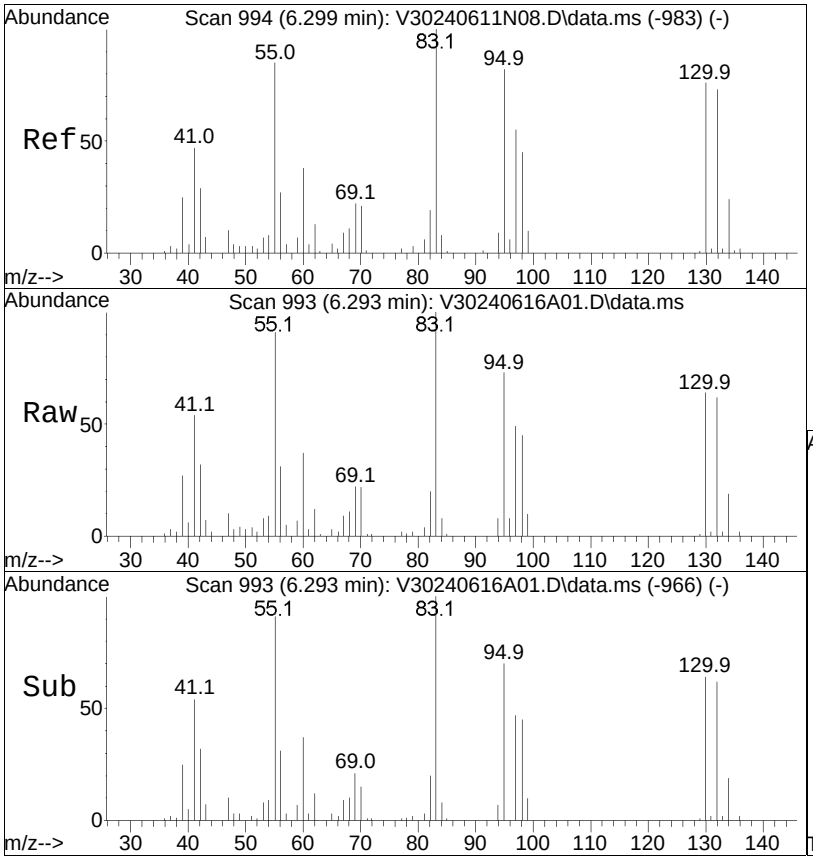


#51
Methyl cyclohexane
Concen: 11.49 ug/L
RT: 6.288 min Scan# 992
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 83 Resp: 140290

Ion	Ratio	Lower	Upper
83	100		
55	92.9	74.6	112.0

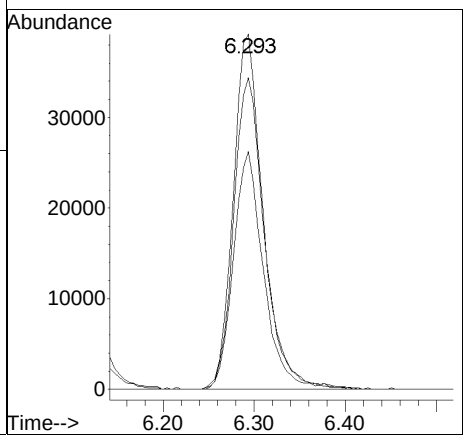


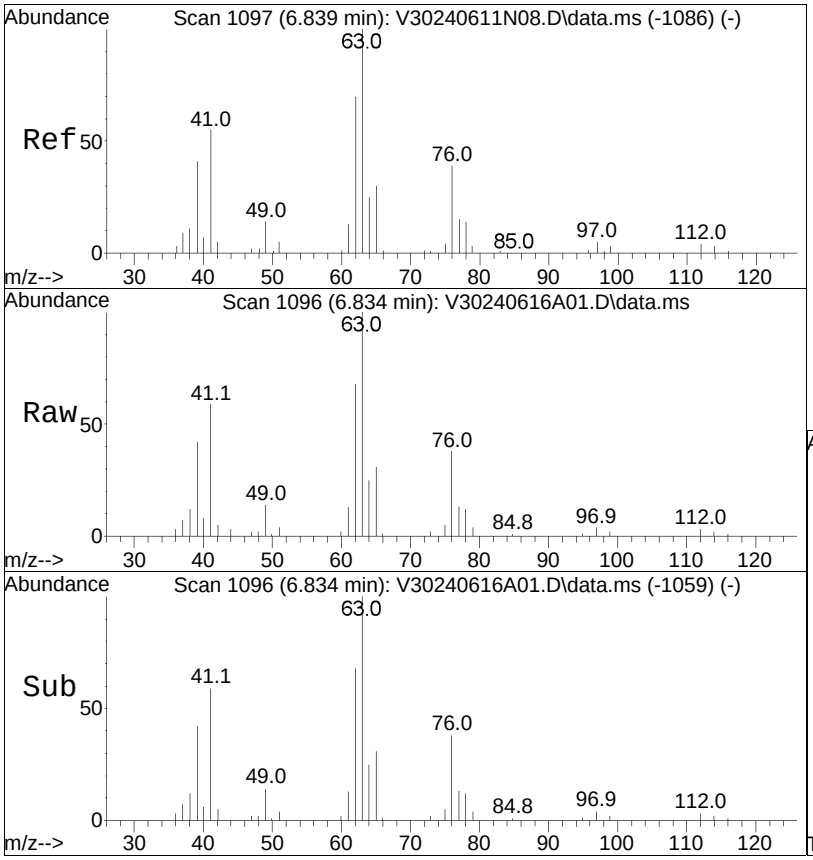


#52
Trichloroethene
Concen: 11.22 ug/L
RT: 6.293 min Scan# 993
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 95 Resp: 90348

Ion	Ratio	Lower	Upper
95	100		
97	67.2	53.8	80.6
130	90.0	71.4	107.0

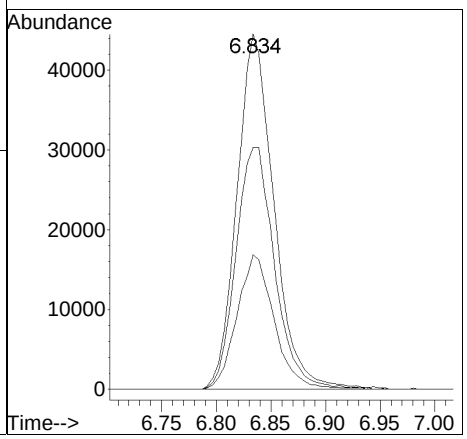


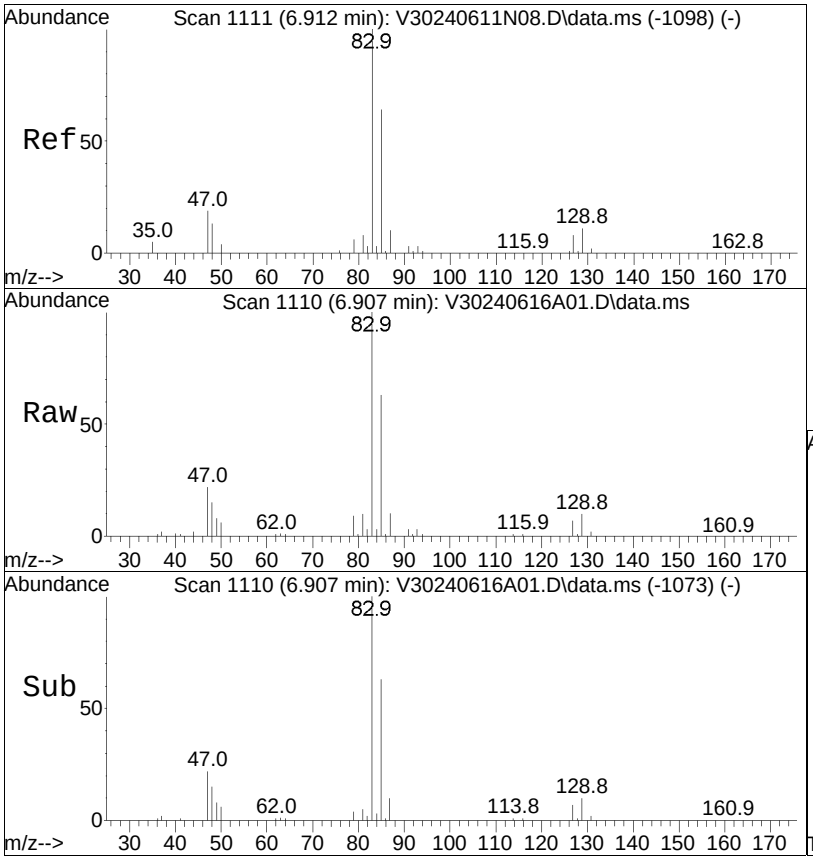


#55
1,2-Dichloropropane
Concen: 11.22 ug/L
RT: 6.834 min Scan# 1096
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 63 Resp: 104991

Ion	Ratio	Lower	Upper
63	100		
62	71.3	58.1	87.1
76	38.1	30.4	45.6

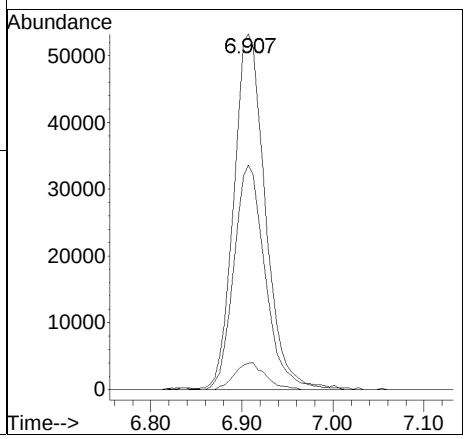


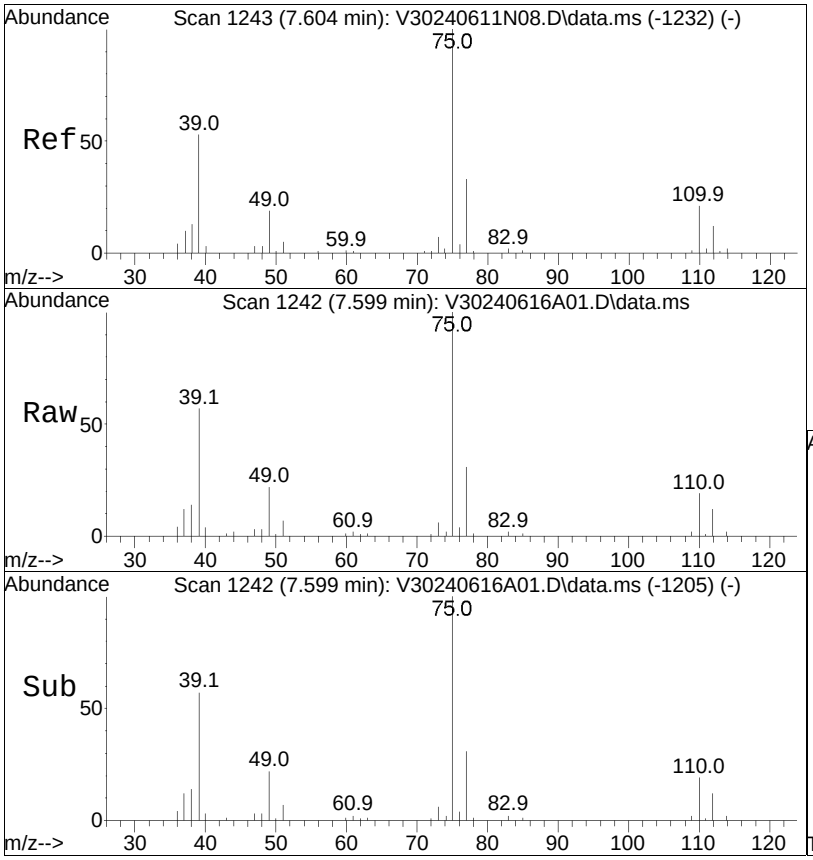


#58
Bromodichloromethane
Concen: 10.89 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 83 Resp: 128584

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.2	75.2
127	7.4	5.2	7.8

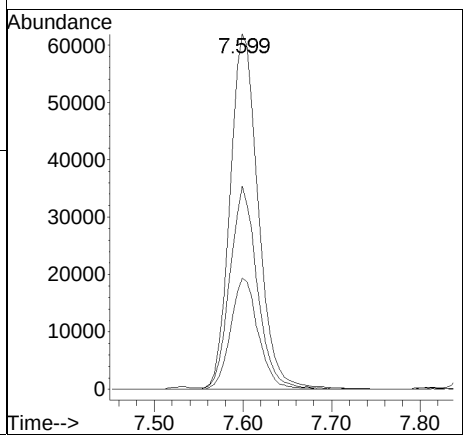


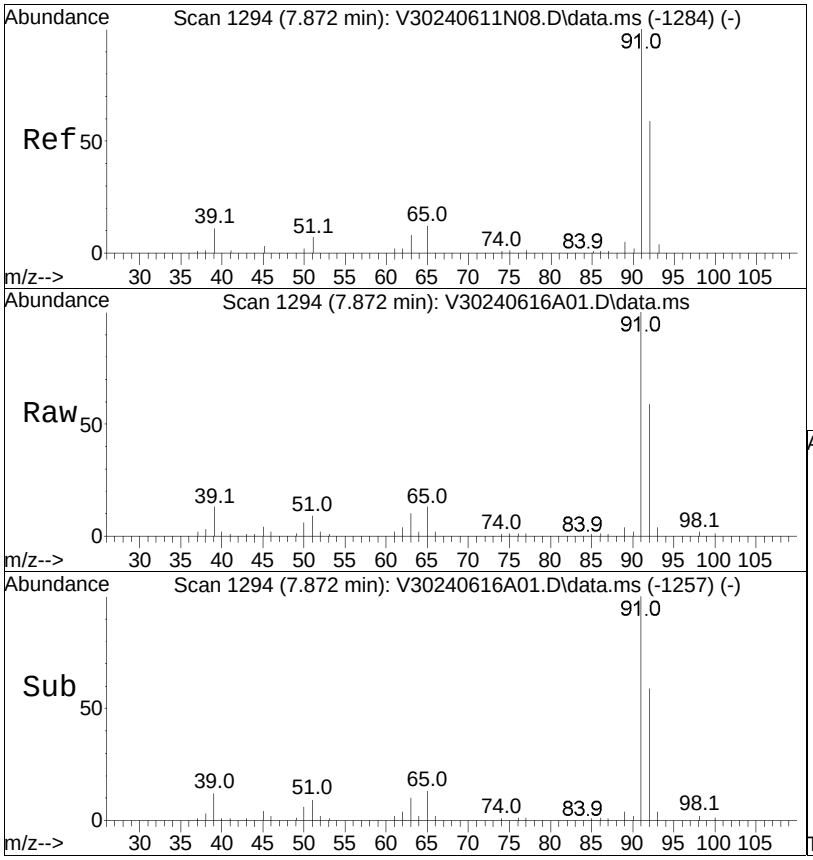


#62
cis-1,3-Dichloropropene
Concen: 11.20 ug/L
RT: 7.599 min Scan# 1242
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 75 Resp: 137267

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.2
39	55.6	54.6	82.0

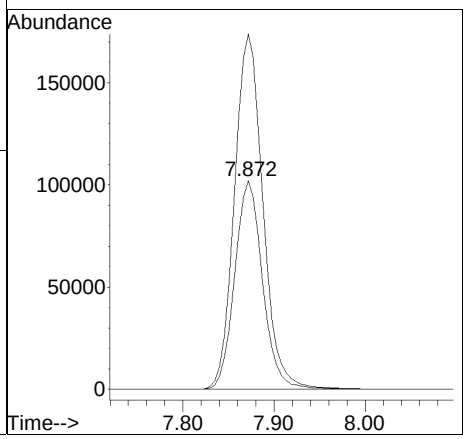


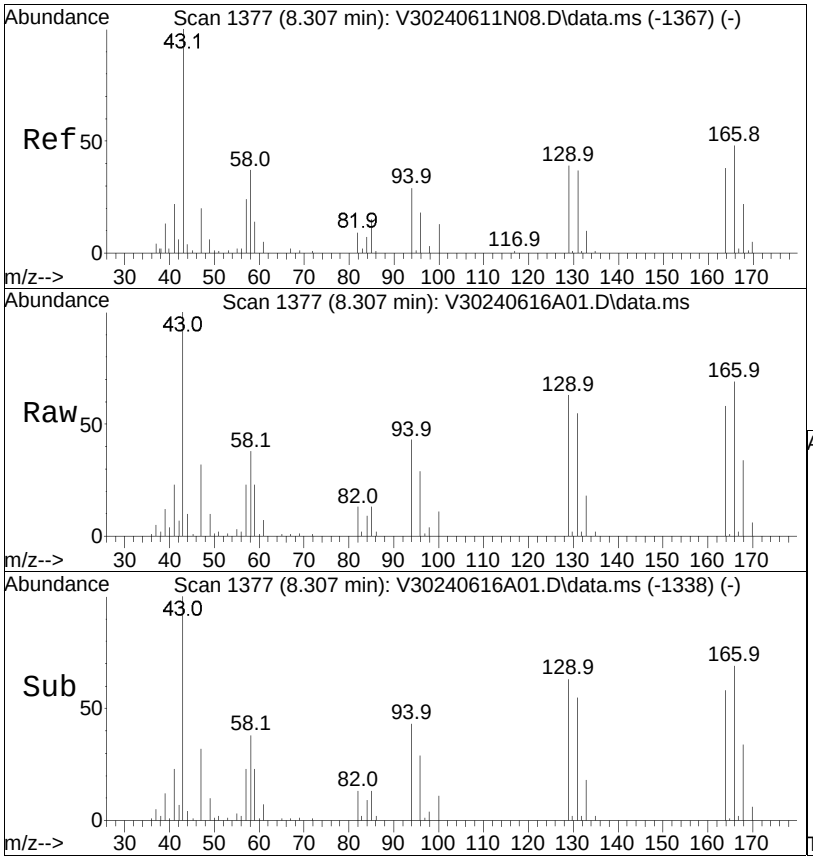


#65
Toluene
Concen: 10.73 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 92 Resp: 217806

Ion	Ratio	Lower	Upper
92	100		
91	173.5	137.5	206.3

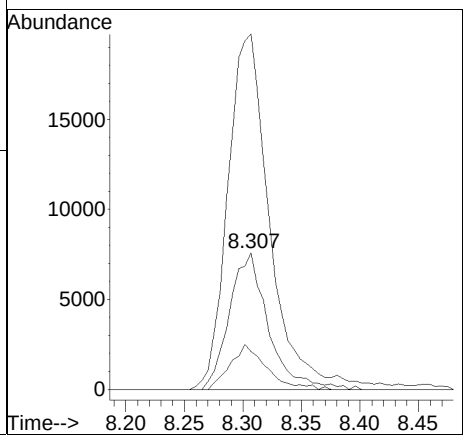


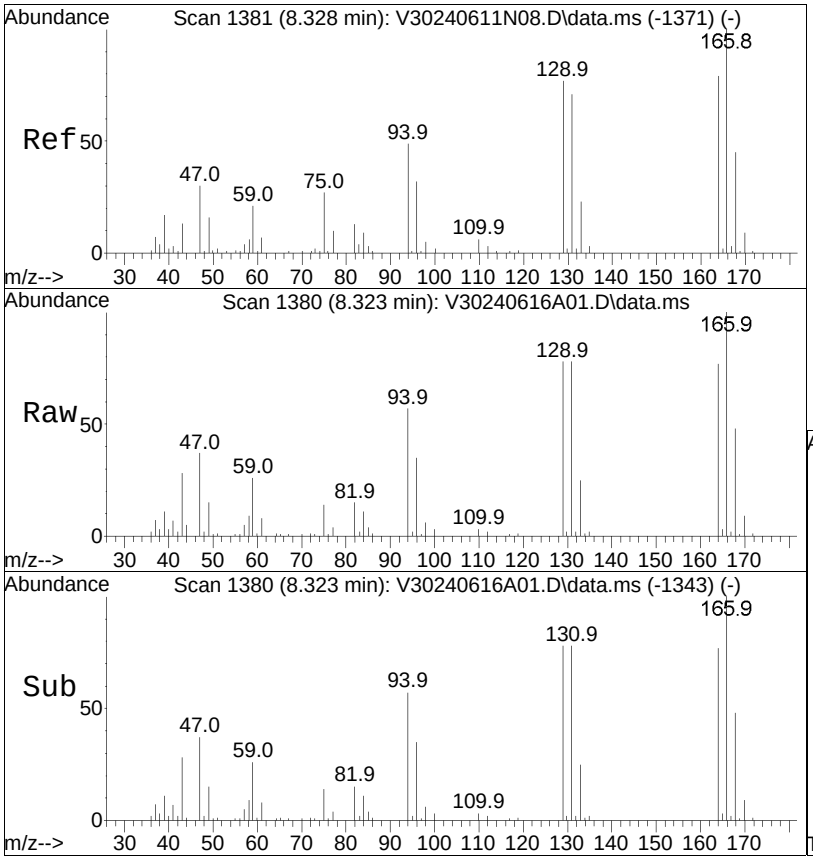


#66
4-Methyl-2-pentanone
Concen: 8.90 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 58 Resp: 17536

Ion	Ratio	Lower	Upper
58	100		
100	30.7	22.6	34.0
43	282.5	234.6	351.8

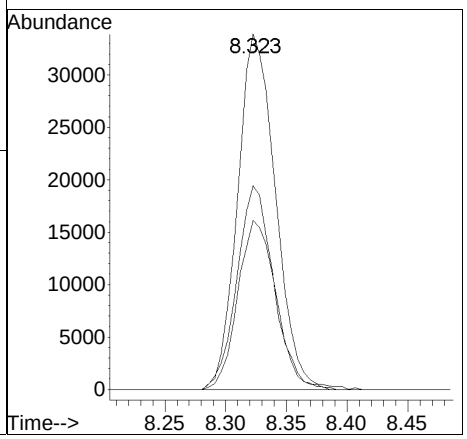


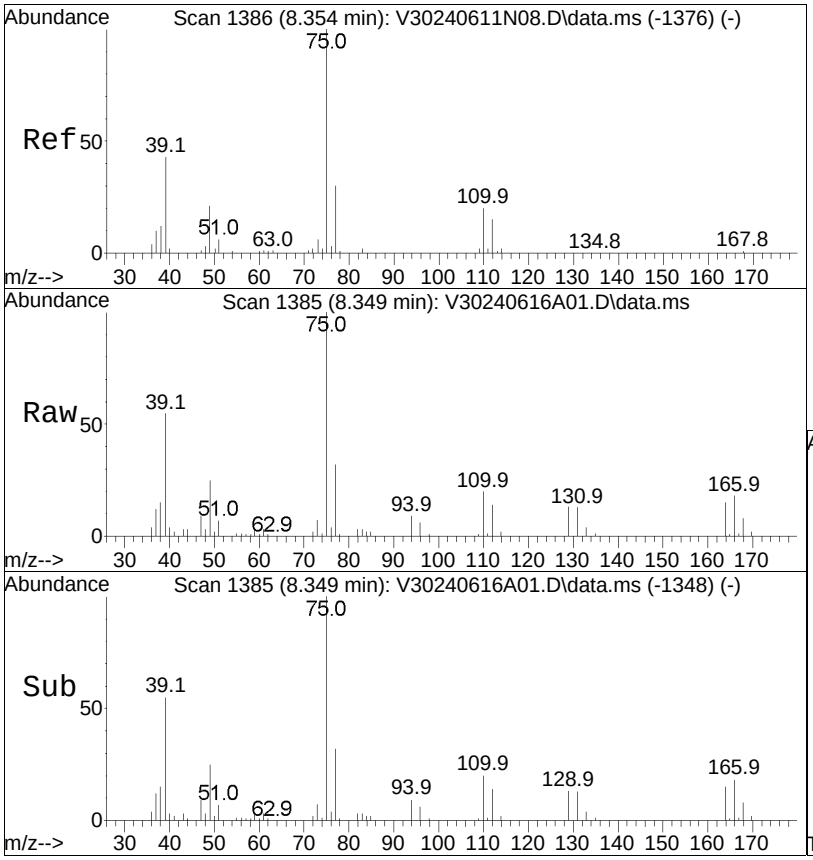


#67
Tetrachloroethene
Concen: 10.88 ug/L
RT: 8.323 min Scan# 1380
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:166 Resp: 73626

Ion	Ratio	Lower	Upper
166	100		
168	48.2	38.6	58.0
94	55.2	42.6	63.8

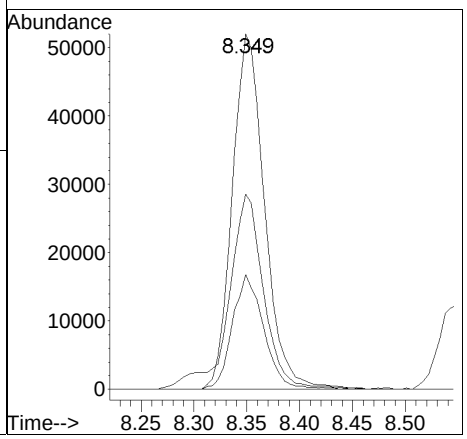


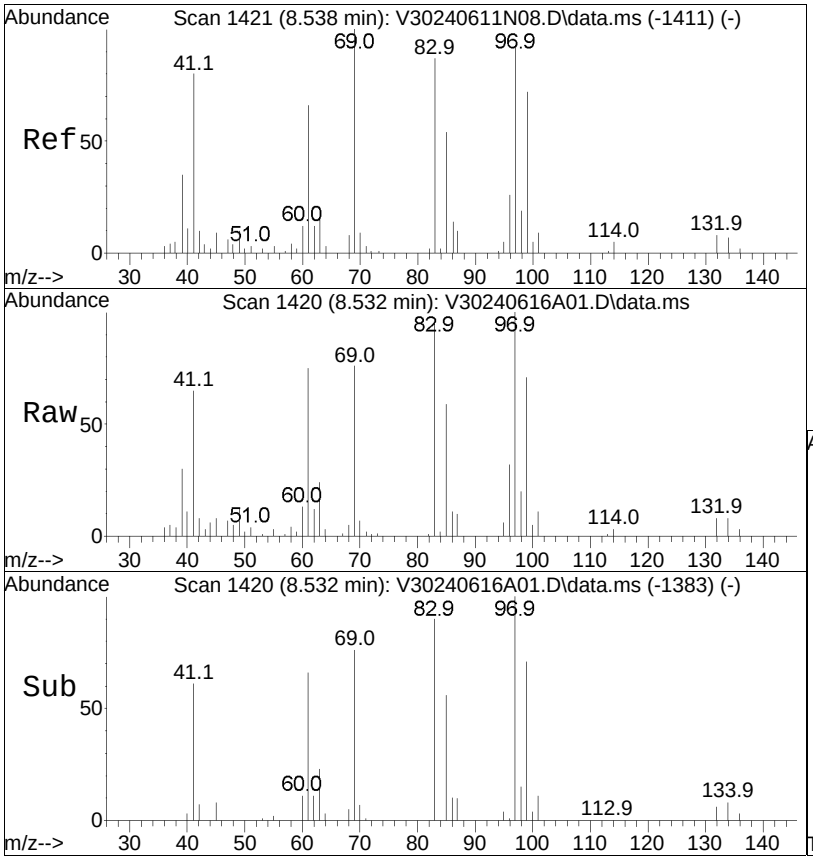


#69
trans-1,3-Dichloropropene
Concen: 10.70 ug/L
RT: 8.349 min Scan# 1385
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 75 Resp: 110789

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4
39	59.6	60.2	90.4#

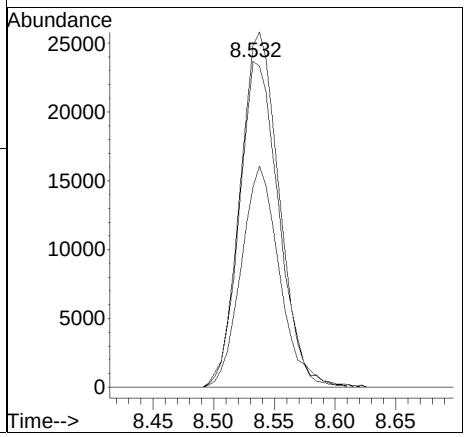


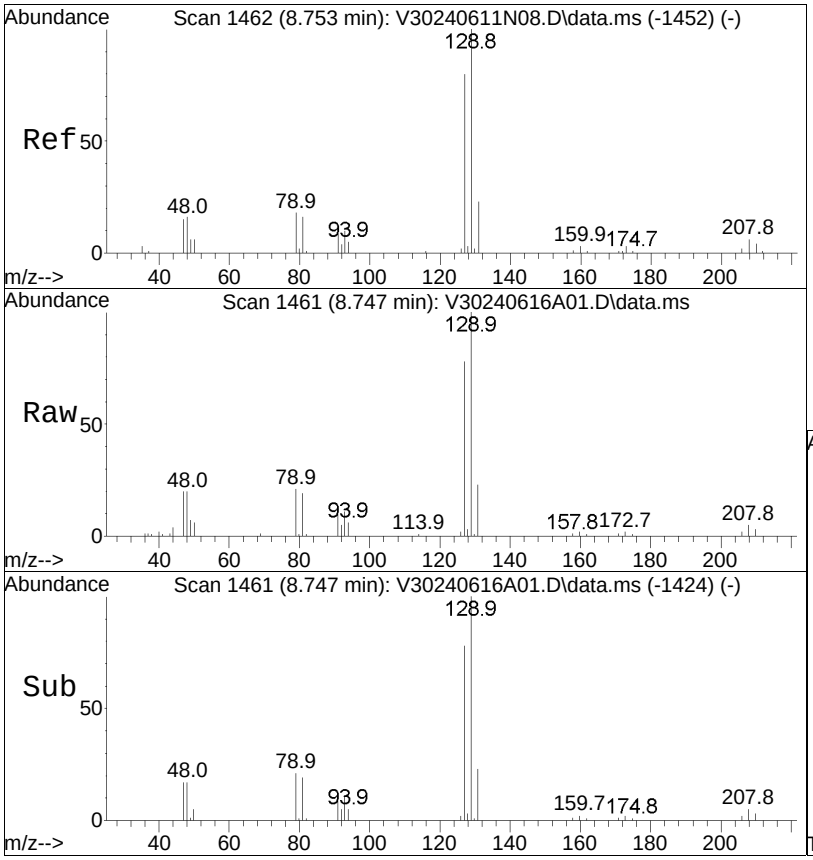


#72
1,1,2-Trichloroethane
Concen: 10.02 ug/L
RT: 8.532 min Scan# 1420
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 83 Resp: 53563

Ion	Ratio	Lower	Upper
83	100		
97	108.9	87.7	131.5
85	65.6	53.1	79.7

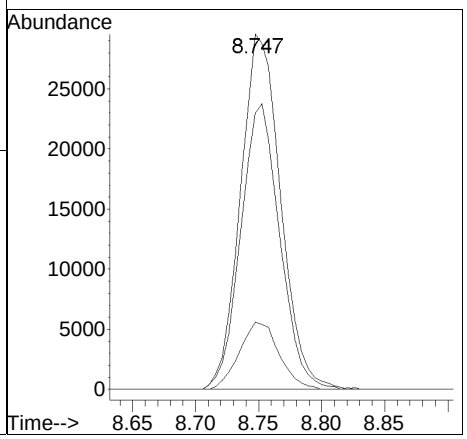


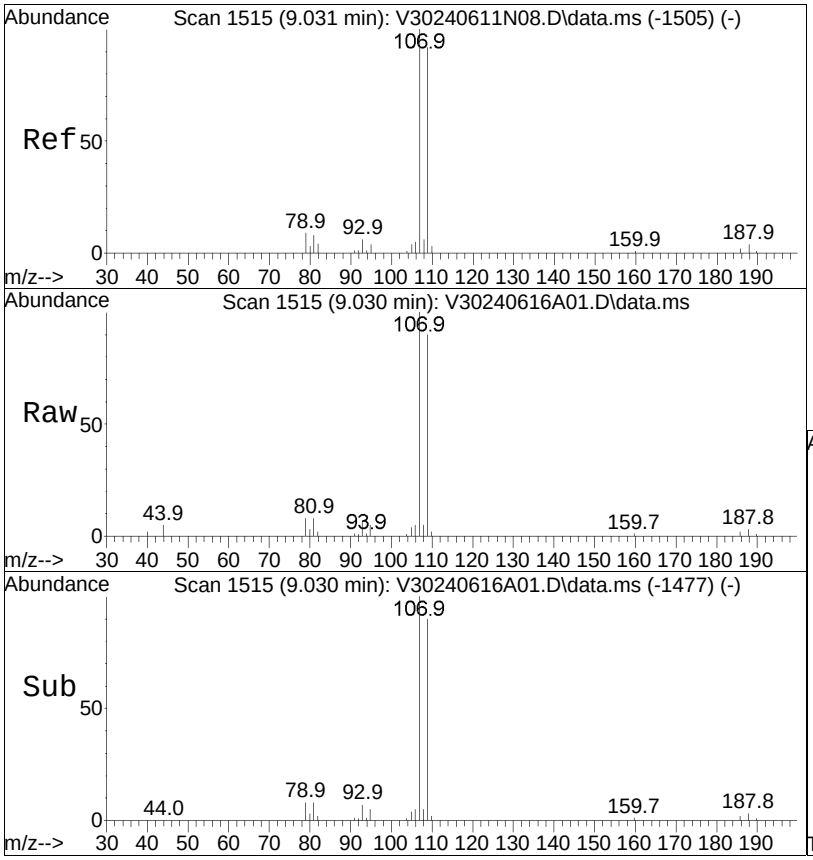


#73
Chlorodibromomethane
Concen: 9.45 ug/L
RT: 8.747 min Scan# 1461
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:129 Resp: 65591

Ion	Ratio	Lower	Upper
129	100		
81	18.7	14.6	22.0
127	78.1	62.6	93.8

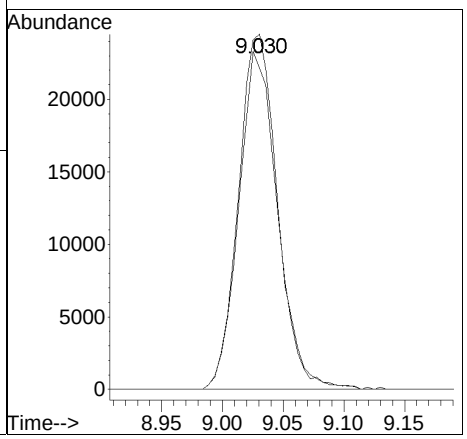


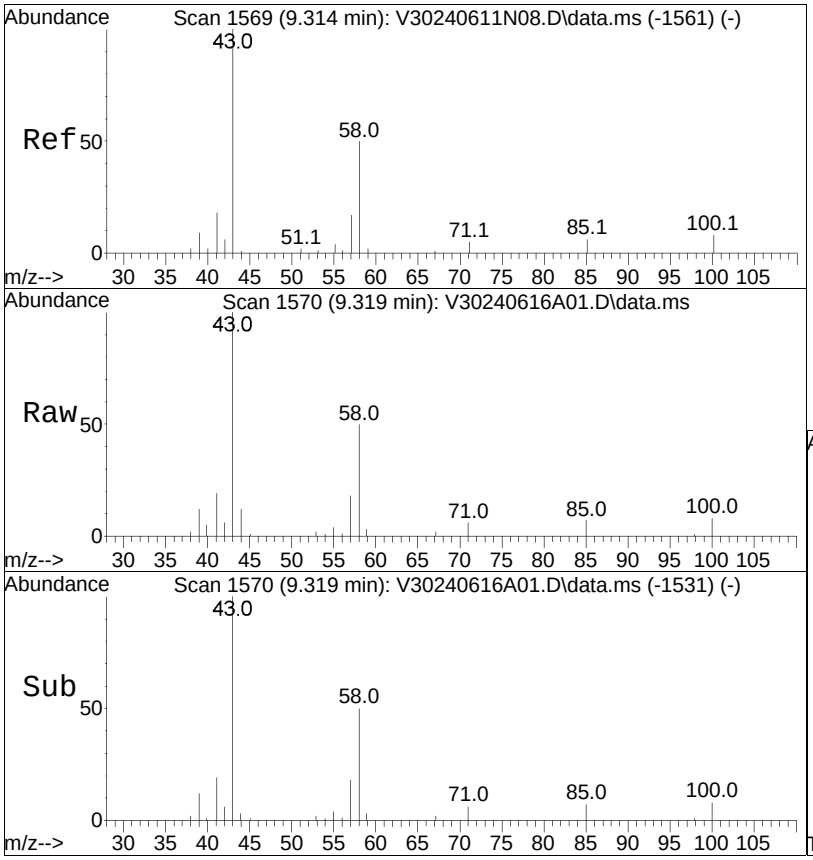


#75
1,2-Dibromoethane
Concen: 9.57 ug/L
RT: 9.030 min Scan# 1515
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:107 Resp: 55080

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.0	112.4

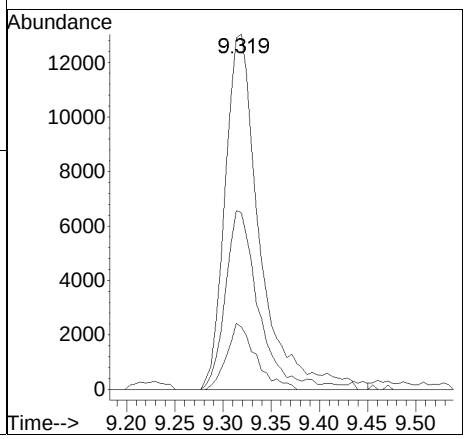


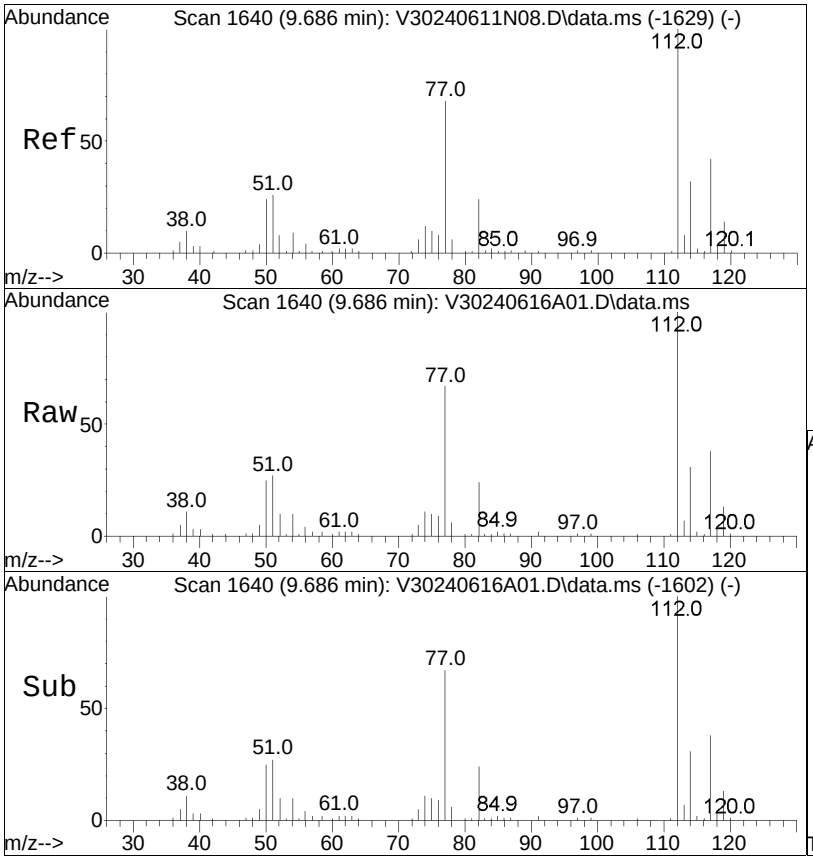


#77
2-Hexanone
Concen: 8.91 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 43 Resp: 32807

Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.6	58.0
57	15.5	14.1	21.1

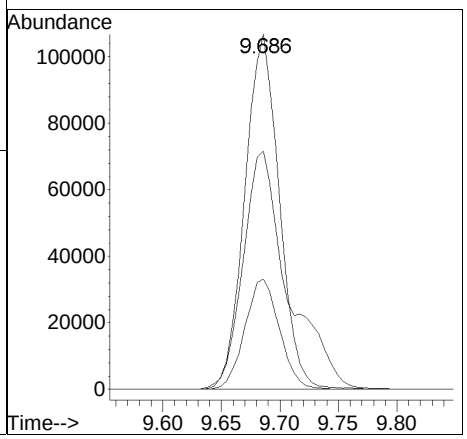


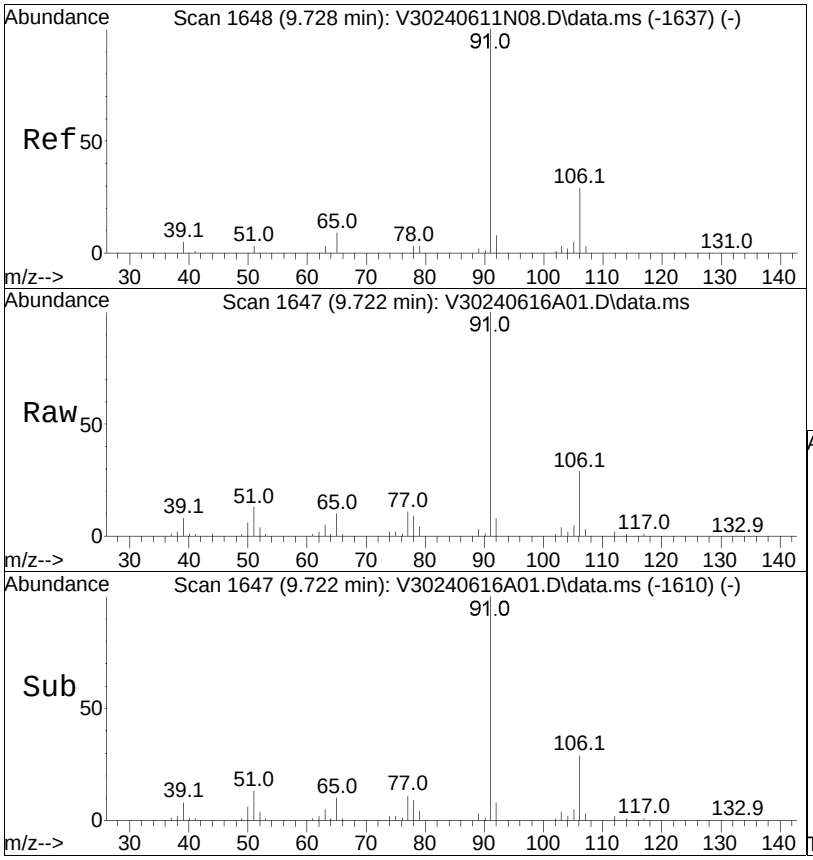


#78
Chlorobenzene
Concen: 10.39 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:112 Resp: 218128

Ion	Ratio	Lower	Upper
112	100		
77	87.7	54.8	82.2#
114	31.3	25.4	38.0

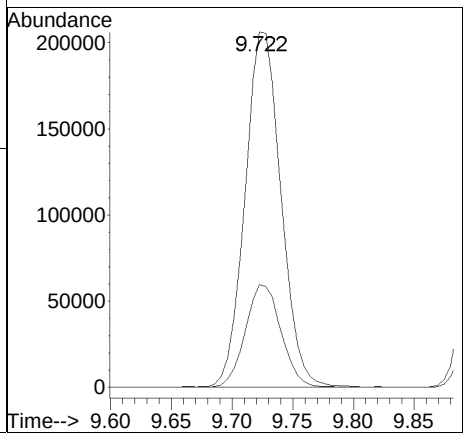


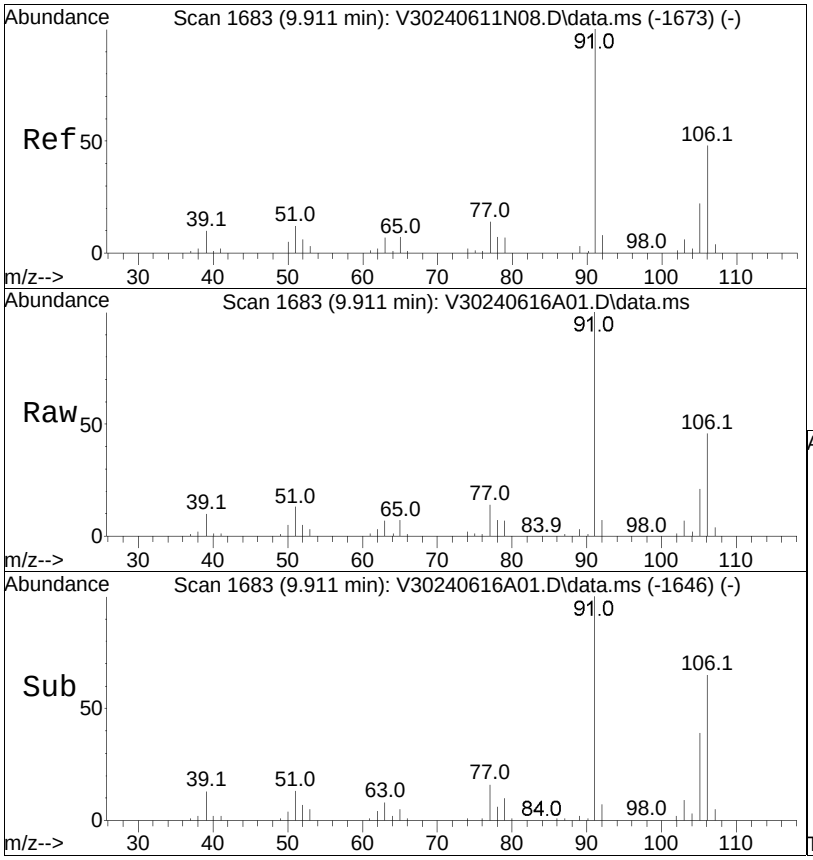


#79
Ethylbenzene
Concen: 11.07 ug/L
RT: 9.722 min Scan# 1647
Delta R.T. -0.006 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 91 Resp: 423648

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.4	35.2

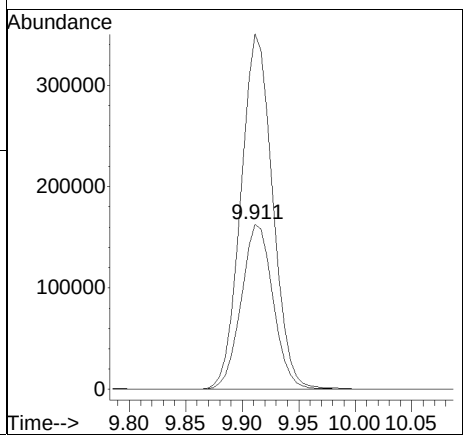


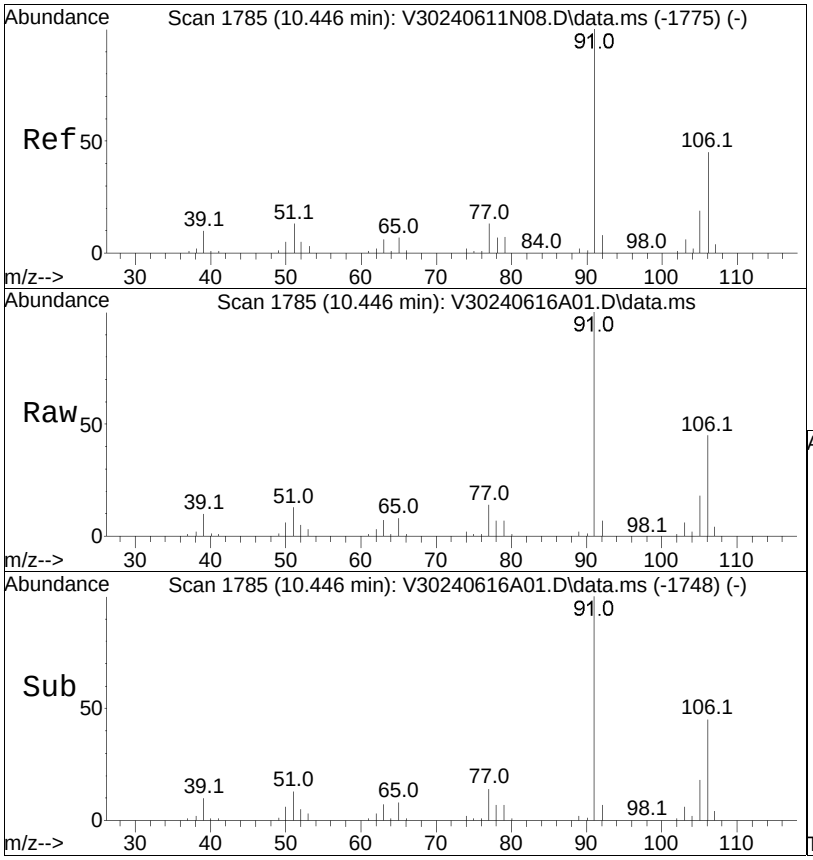


#81
p/m Xylene
Concen: 21.98 ug/L
RT: 9.911 min Scan# 1683
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:106 Resp: 320513

Ion	Ratio	Lower	Upper
106	100		
91	214.2	171.4	257.2

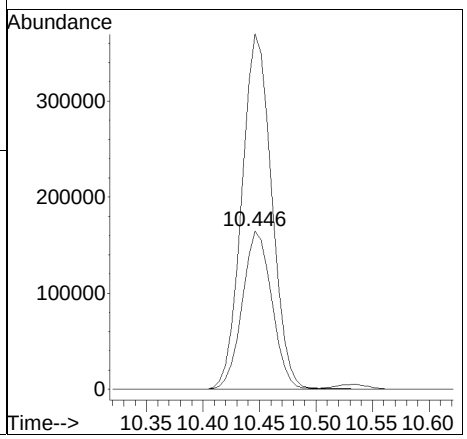


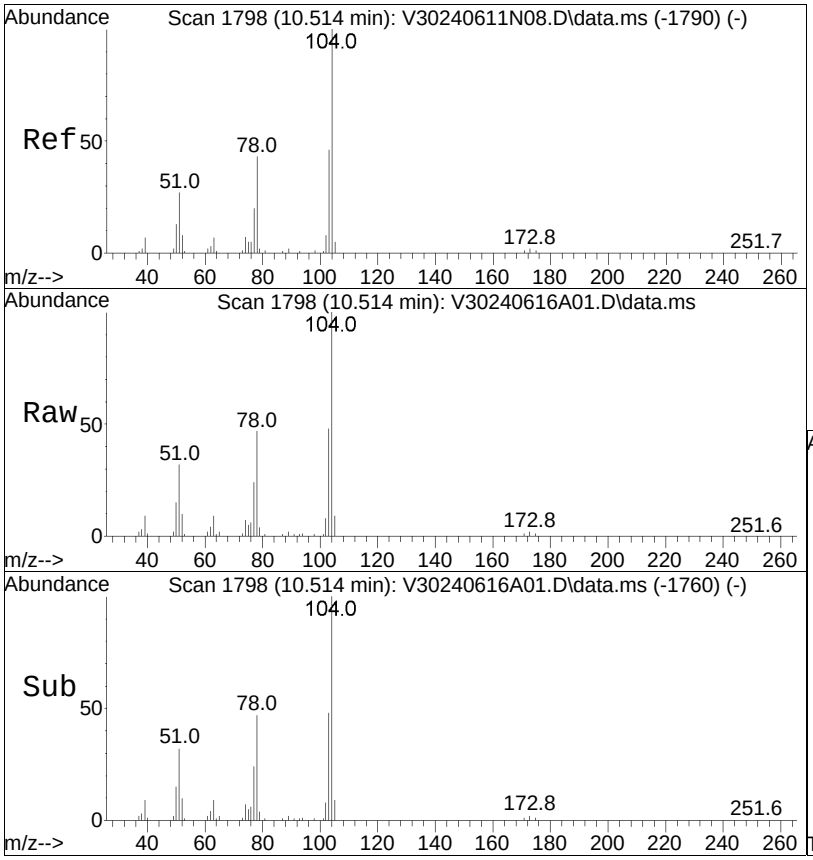


#82
o Xylene
Concen: 21.55 ug/L
RT: 10.446 min Scan# 1785
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:106 Resp: 302045

Ion	Ratio	Lower	Upper
106	100		
91	225.4	179.2	268.8

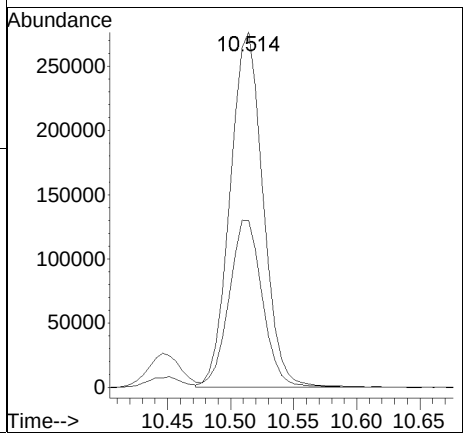


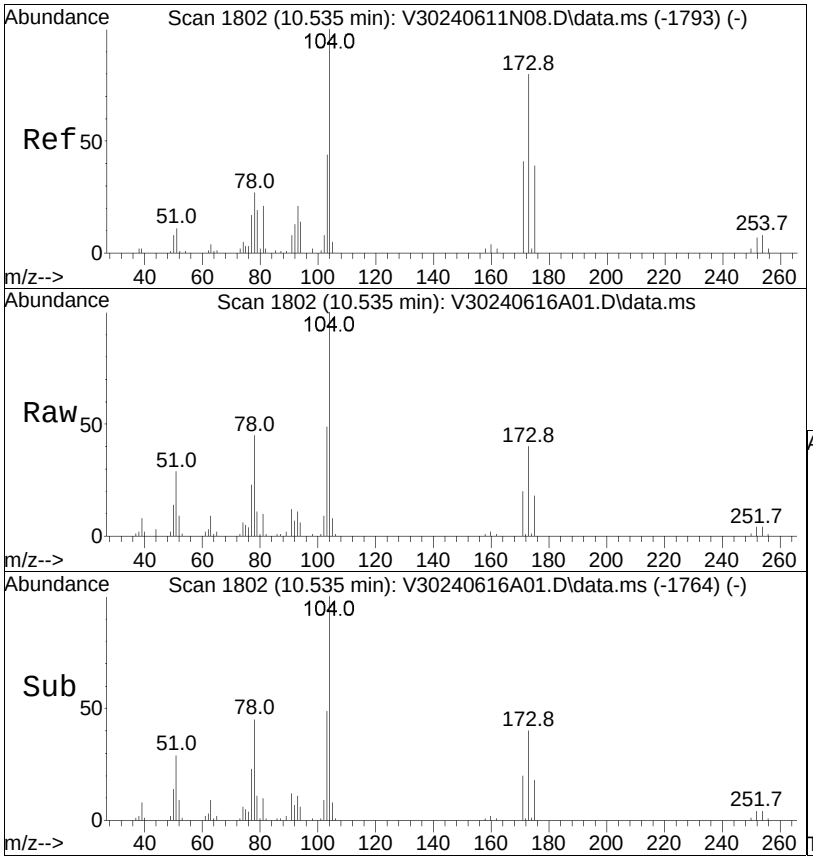


#83
Styrene
Concen: 21.62 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:104 Resp: 501828

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.1	57.1

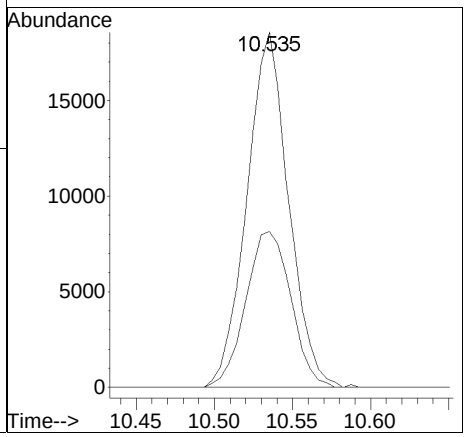


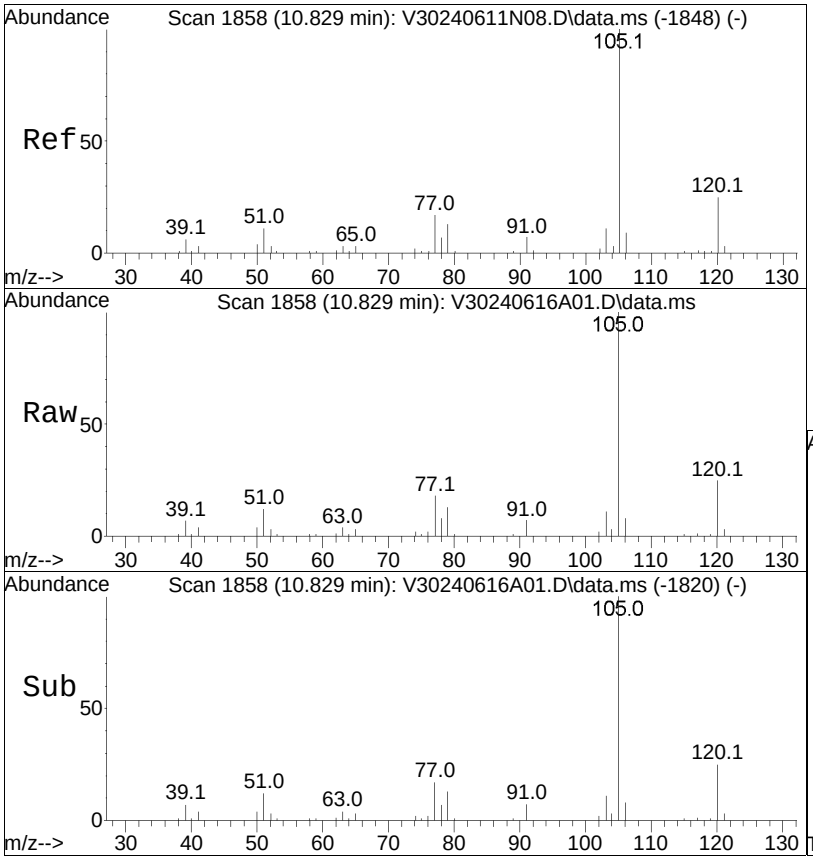


#85
Bromoform
Concen: 9.08 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:173 Resp: 34486

Ion	Ratio	Lower	Upper
173	100		
175	47.4	37.8	56.6

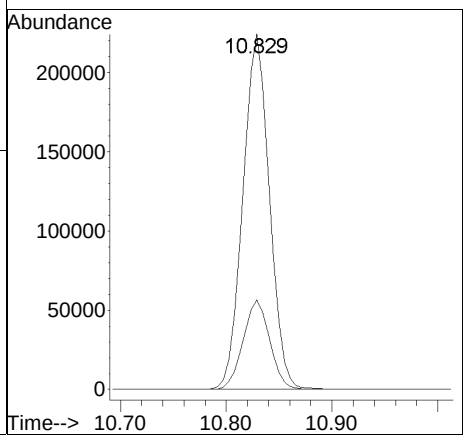


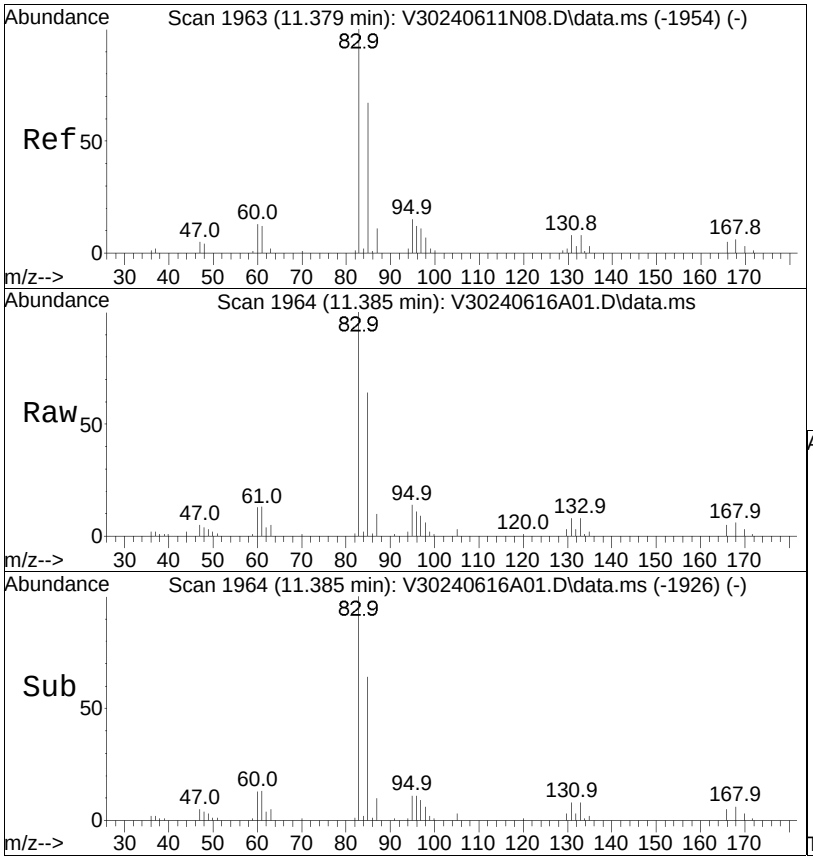


#87
Isopropylbenzene
Concen: 11.19 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:105 Resp: 390805

Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.0	30.0

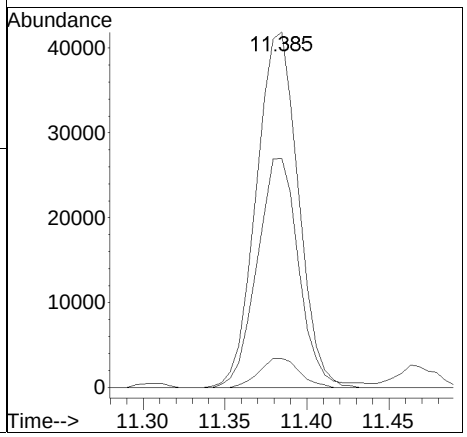


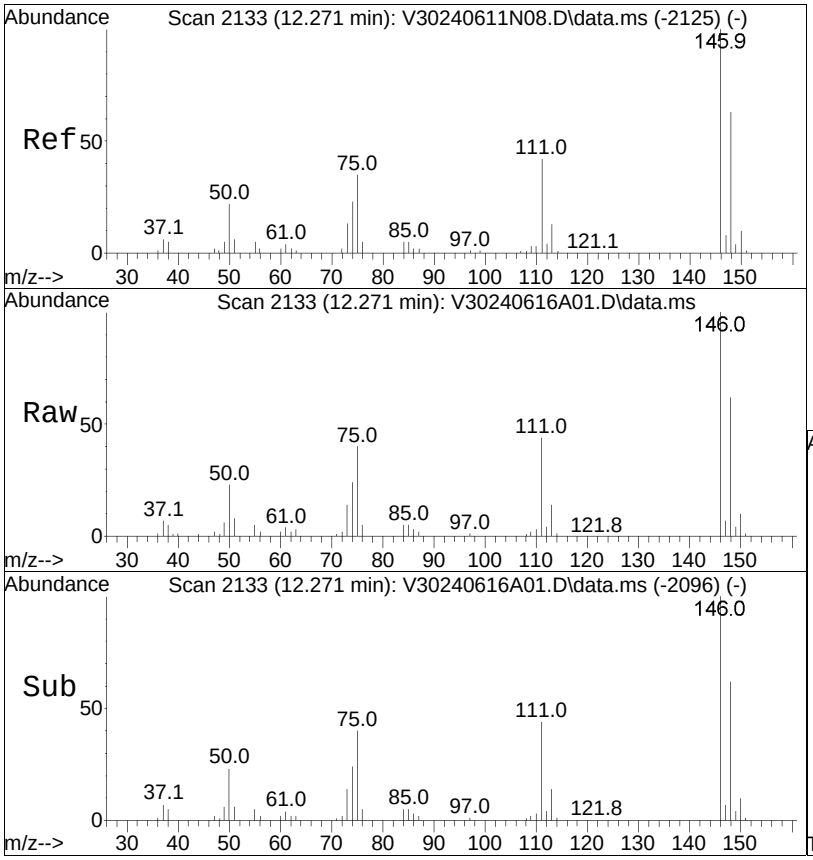


#92
1,1,2,2-Tetrachloroethane
Concen: 9.55 ug/L
RT: 11.385 min Scan# 1964
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion: 83 Resp: 74407

Ion	Ratio	Lower	Upper
83	100		
131	7.8	6.6	10.0
85	64.6	51.8	77.6

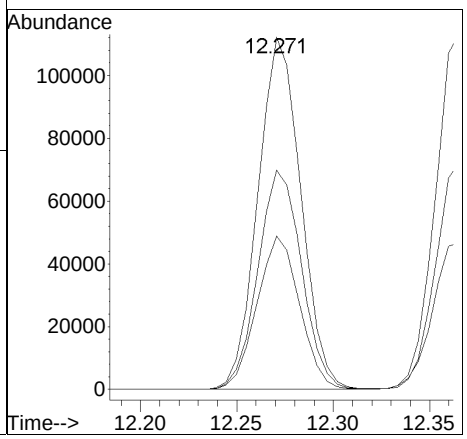


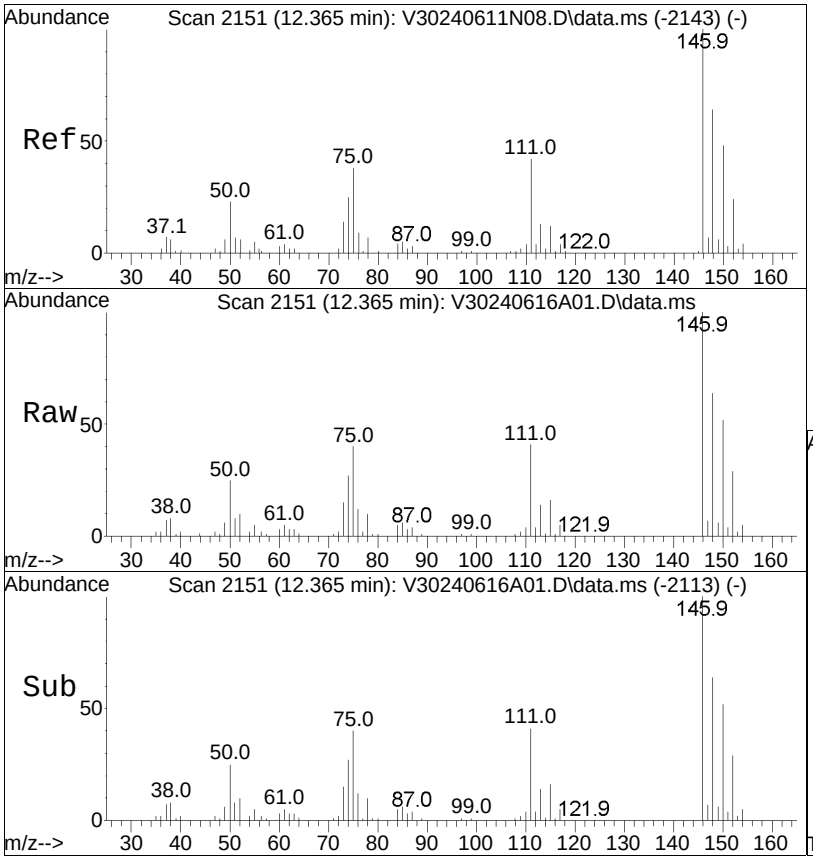


#105
1,3-Dichlorobenzene
Concen: 10.31 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:146 Resp: 173606

Ion	Ratio	Lower	Upper
146	100		
111	43.4	28.0	58.1
148	63.4	40.8	84.6

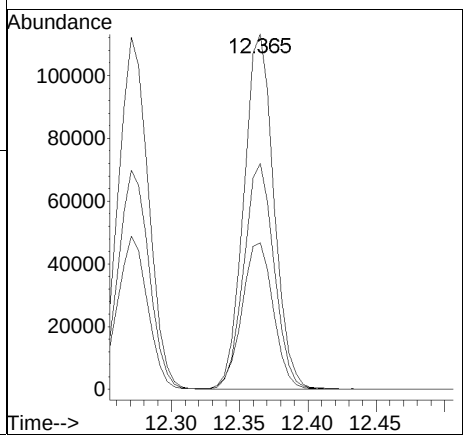


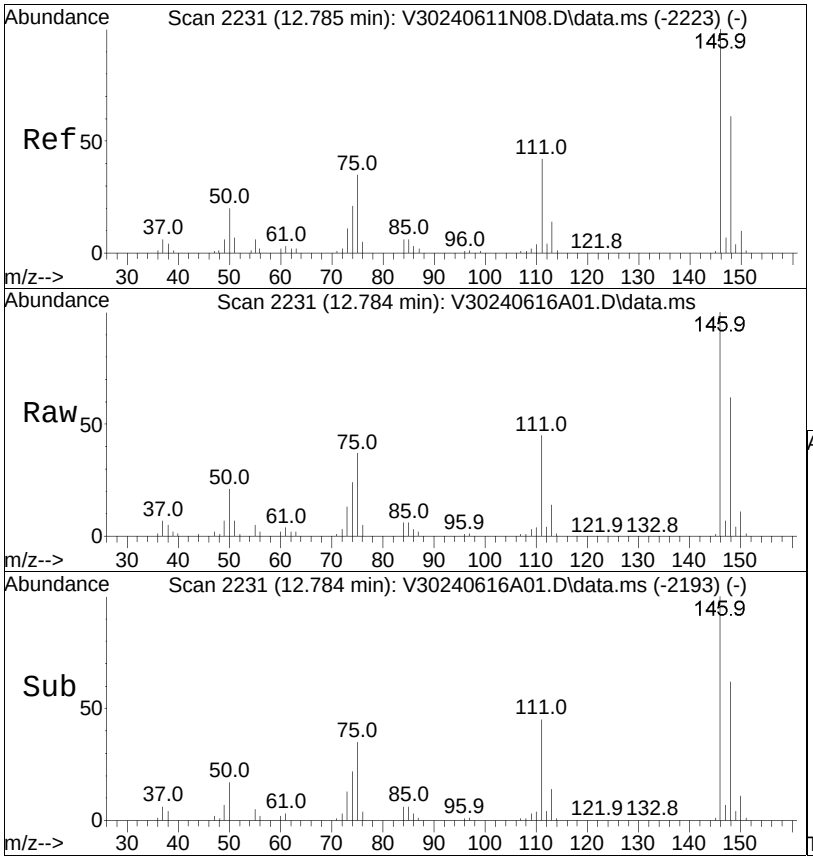


#106
1,4-Dichlorobenzene
Concen: 10.07 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:146 Resp: 174347

Ion	Ratio	Lower	Upper
146	100		
111	43.1	33.7	50.5
148	63.9	50.8	76.2

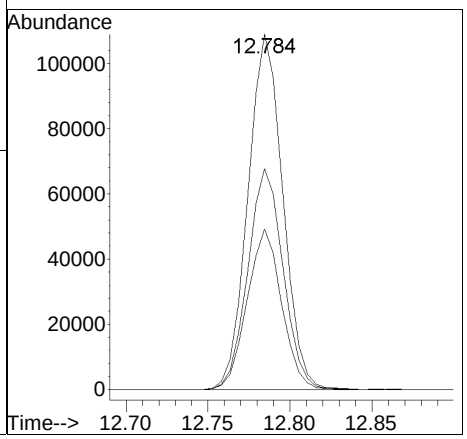


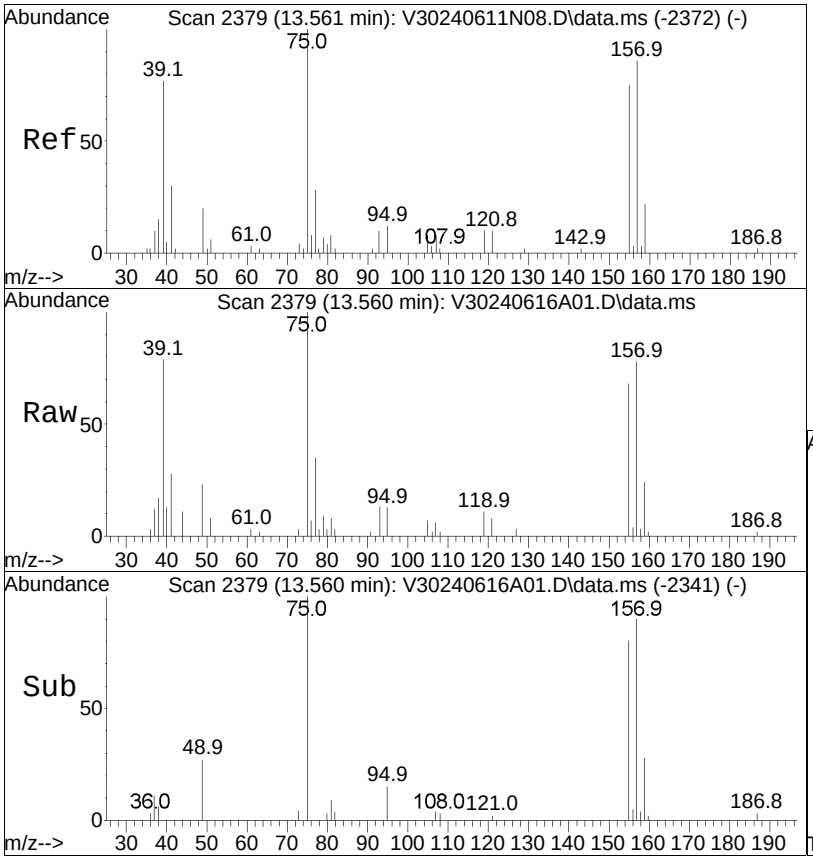


#109
1,2-Dichlorobenzene
Concen: 10.01 ug/L
RT: 12.784 min Scan# 2231
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:146 Resp: 160887

Ion	Ratio	Lower	Upper
146	100		
111	44.7	29.5	61.3
148	62.9	41.3	85.9

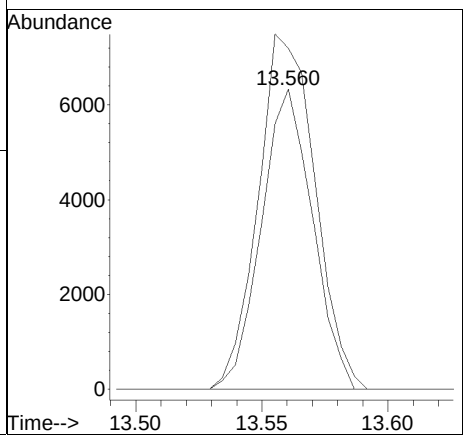


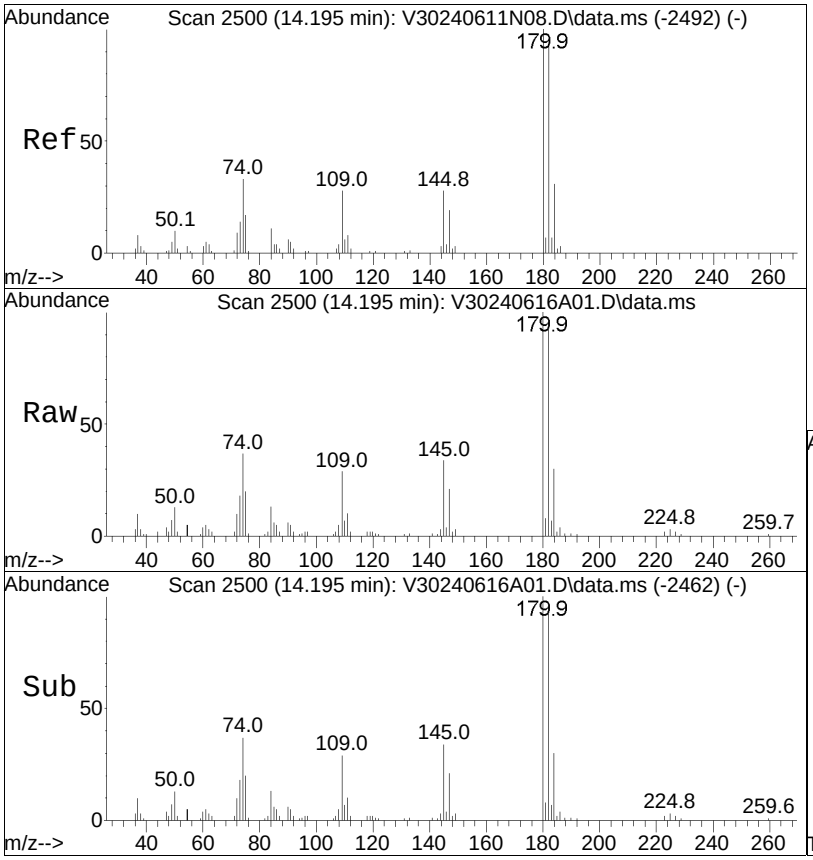


#111
1,2-Dibromo-3-chloropropane
Concen: 8.44 ug/L
RT: 13.560 min Scan# 2379
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:155 Resp: 8963

Ion	Ratio	Lower	Upper
155	100		
157	131.4	105.1	157.7

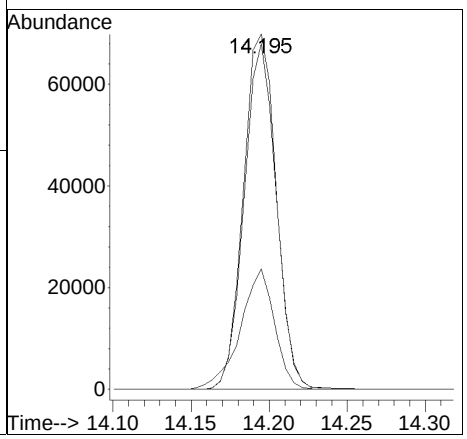


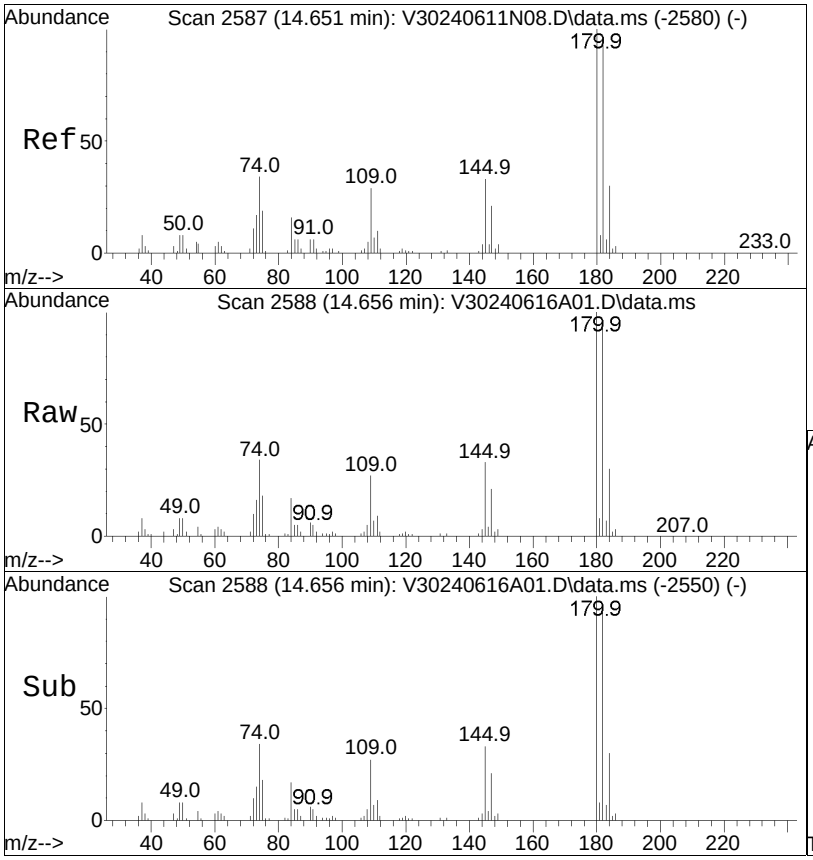


#114
1,2,4-Trichlorobenzene
Concen: 9.94 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. -0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:180 Resp: 102809

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.7	113.5
145	35.0	27.4	41.2

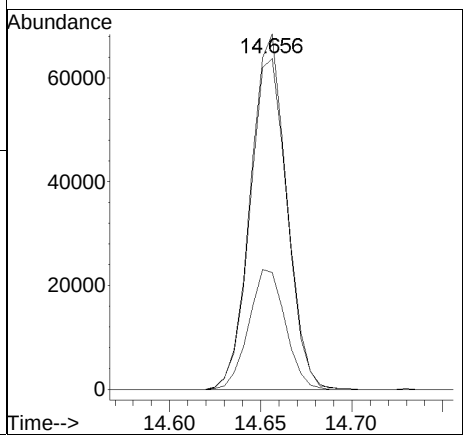




#116
1,2,3-Trichlorobenzene
Concen: 9.87 ug/L
RT: 14.656 min Scan# 2588
Delta R.T. 0.000 min
Lab File: V30240616A01.D
Acq: 16 Jun 2024 07:19 am

Tgt Ion:180 Resp: 94576

Ion	Ratio	Lower	Upper
180	100		
182	95.3	74.9	112.3
145	34.0	26.0	39.0



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A02.D
Acq On : 16 Jun 2024 07:41 am
Operator : VOA130:MJV
Sample : WG1935824-4,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 08:46:33 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	441704	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 97.58%			
63) Chlorobenzene-d5	9.665	117	339183	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 101.82%			
84) 1,4-Dichlorobenzene-d4	12.349	152	184981	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 101.81%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	127954	10.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.92%			
47) 1,2-Dichloroethane-d4	5.822	65	168877	11.278	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.78%			
64) Toluene-d8	7.814	98	454606	9.956	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
88) 4-Bromofluorobenzene	11.143	95	182932	10.628	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	85413	9.081	ug/L #	75
3) Chloromethane	1.868	50	111800	9.455	ug/L #	81
4) Vinyl chloride	1.947	62	104366	9.793	ug/L #	75
5) Bromomethane	2.262	94	43057	8.182	ug/L	87
6) Chloroethane	2.372	64	58558	8.688	ug/L	98
7) Trichlorofluoromethane	2.524	101	133925	11.194	ug/L	97
10) 1,1-Dichloroethene	3.027	96	77886	10.620	ug/L	96
11) Carbon disulfide	3.053	76	248613	10.356	ug/L	100
12) Freon-113	3.064	101	81434	11.214	ug/L	100
15) Methylene chloride	3.583	84	101318	10.256	ug/L	98
17) Acetone	3.620	43	24869	12.755	ug/L	92
18) trans-1,2-Dichloroethene	3.740	96	85914	10.613	ug/L	96
19) Methyl acetate	3.745	43	53746	10.728	ug/L #	95
21) Methyl tert-butyl ether	3.845	73	182420	10.341	ug/L	95
25) 1,1-Dichloroethane	4.327	63	200326	11.053	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	94712	10.200	ug/L	98
33) Bromochloromethane	5.046	128	41639	10.322	ug/L	87
34) Cyclohexane	5.056	56	174746	11.786	ug/L	98
35) Chloroform	5.119	83	173722	10.733	ug/L	97
37) Carbon tetrachloride	5.261	117	111444	11.461	ug/L	96

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A02.D
Acq On : 16 Jun 2024 07:41 am
Operator : VOA130:MJV
Sample : WG1935824-4,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 08:46:33 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.324	97	137883	11.219	ug/L		98
42) 2-Butanone	5.408	43	30257	11.100	ug/L	#	86
45) Benzene	5.691	78	347252	10.637	ug/L		99
48) 1,2-Dichloroethane	5.890	62	123841	10.907	ug/L	#	98
51) Methyl cyclohexane	6.288	83	125058	10.494	ug/L		100
52) Trichloroethene	6.294	95	80299	10.223	ug/L		99
55) 1,2-Dichloropropane	6.834	63	96409	10.560	ug/L		99
58) Bromodichloromethane	6.907	83	121122	10.512	ug/L		99
62) cis-1,3-Dichloropropene	7.599	75	128872	10.775	ug/L		88
65) Toluene	7.872	92	205065	9.921	ug/L		100
66) 4-Methyl-2-pentanone	8.307	58	20827	10.387	ug/L		94
67) Tetrachloroethene	8.328	166	65837	9.553	ug/L		97
69) trans-1,3-Dichloropropene	8.349	75	107871	10.252	ug/L	#	82
72) 1,1,2-Trichloroethane	8.538	83	53029	9.742	ug/L		100
73) Chlorodibromomethane	8.753	129	65061	9.207	ug/L		100
75) 1,2-Dibromoethane	9.031	107	56035	9.564	ug/L		97
77) 2-Hexanone	9.314	43	40346	10.759	ug/L		98
78) Chlorobenzene	9.681	112	207663	9.718	ug/L	#	84
79) Ethylbenzene	9.728	91	404124	10.372	ug/L		100
81) p/m Xylene	9.911	106	305024	20.540	ug/L		100
82) o Xylene	10.446	106	287403	20.140	ug/L		97
83) Styrene	10.514	104	487494	20.629	ug/L		100
85) Bromoform	10.535	173	34947	9.041	ug/L		99
87) Isopropylbenzene	10.829	105	373653	10.513	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.379	83	80973	10.211	ug/L		100
105) 1,3-Dichlorobenzene	12.271	146	165544	9.653	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	169141	9.595	ug/L		100
109) 1,2-Dichlorobenzene	12.785	146	158963	9.711	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.561	155	10954	10.127	ug/L		93
114) 1,2,4-Trichlorobenzene	14.190	180	99938	9.491	ug/L		99
116) 1,2,3-Trichlorobenzene	14.651	180	93691	9.608	ug/L		97

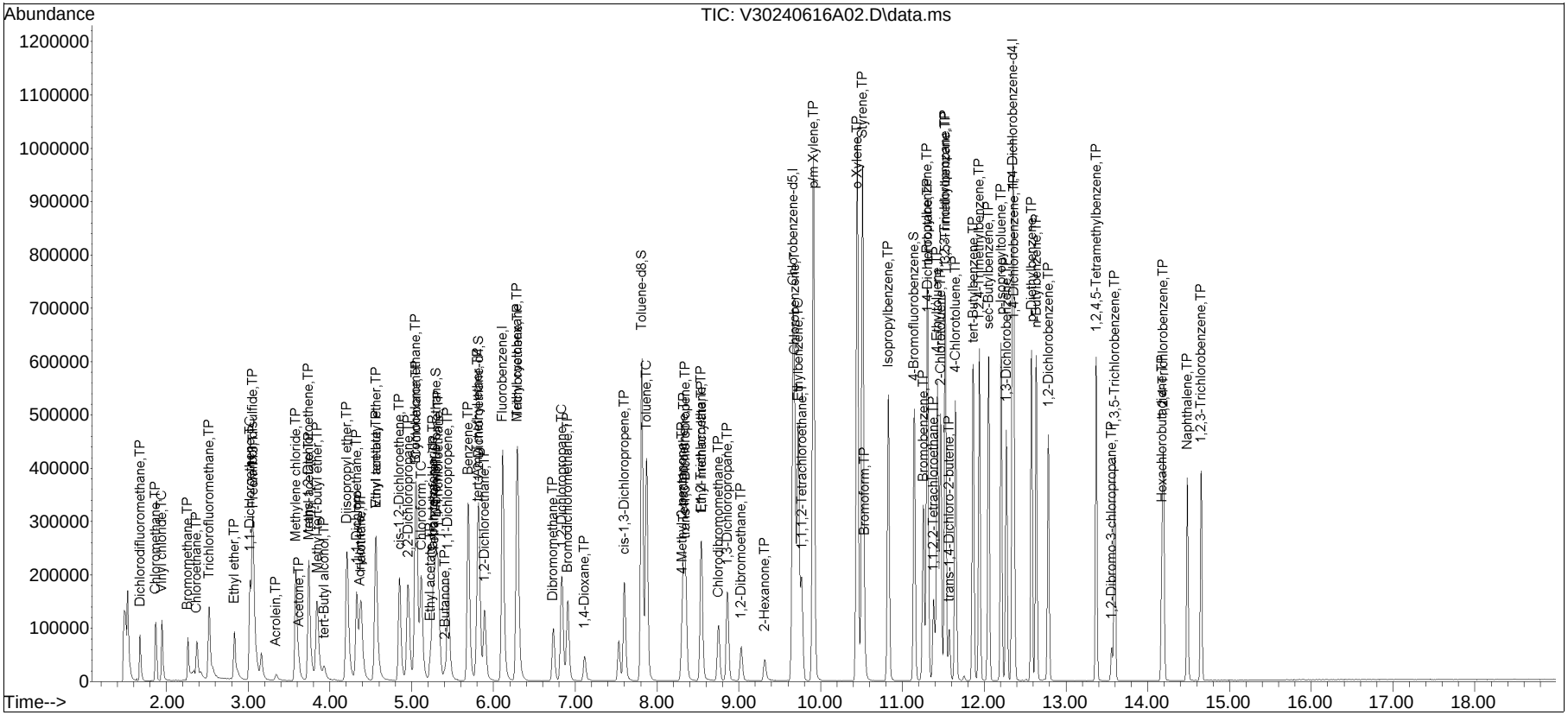
(#) = qualifier out of range (m) = manual integration (+) = signals summed

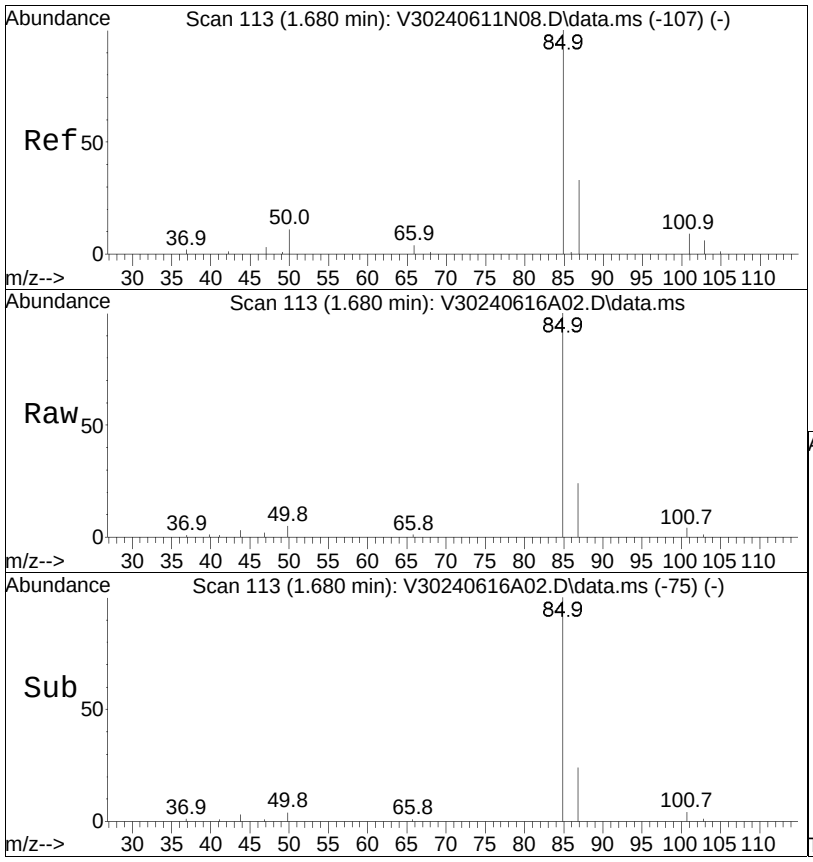
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A02.D
Acq On : 16 Jun 2024 07:41 am
Operator : VOA130:MJV
Sample : WG1935824-4,31,10,10
Misc : WG1935824,ICAL21186
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 08:46:33 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

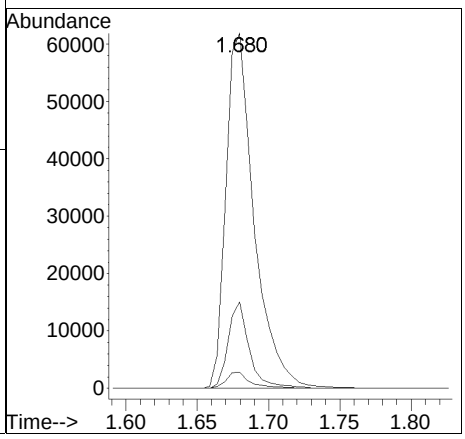


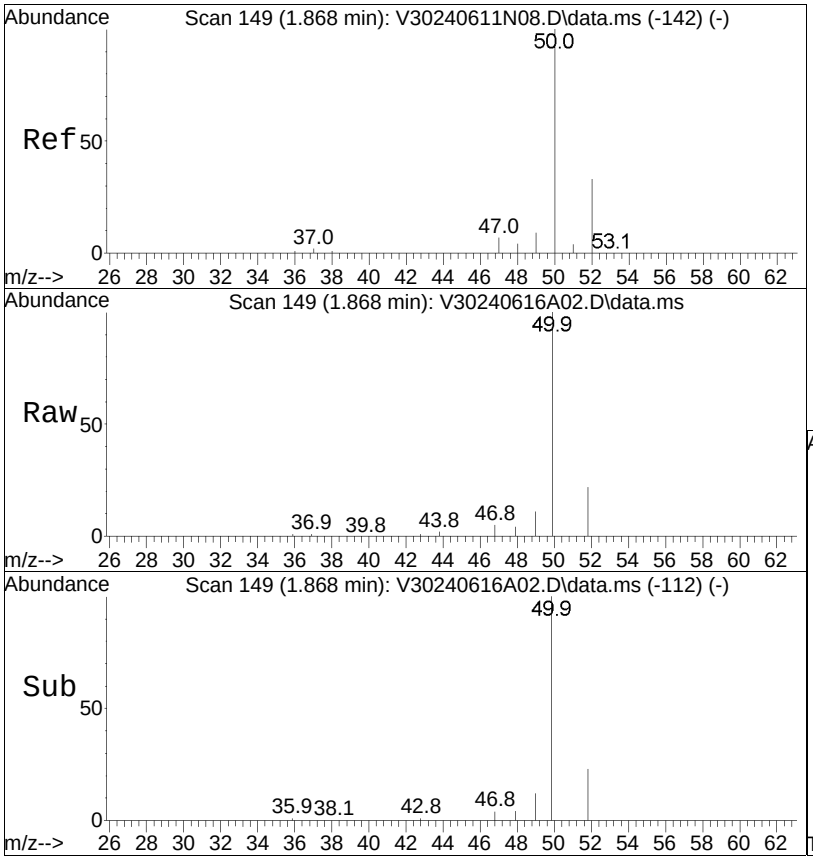


#2
Dichlorodifluoromethane
Concen: 9.08 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 85 Resp: 85413

Ion	Ratio	Lower	Upper
85	100		
87	18.2	20.2	42.0#
50	4.0	10.1	20.9#

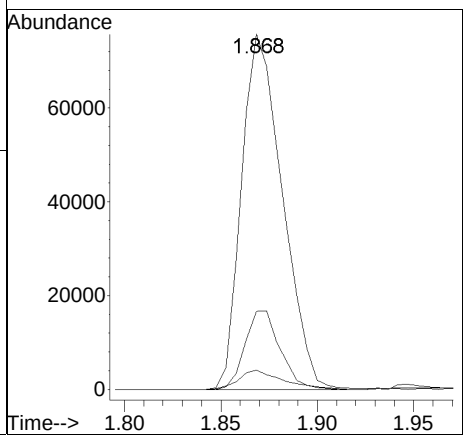


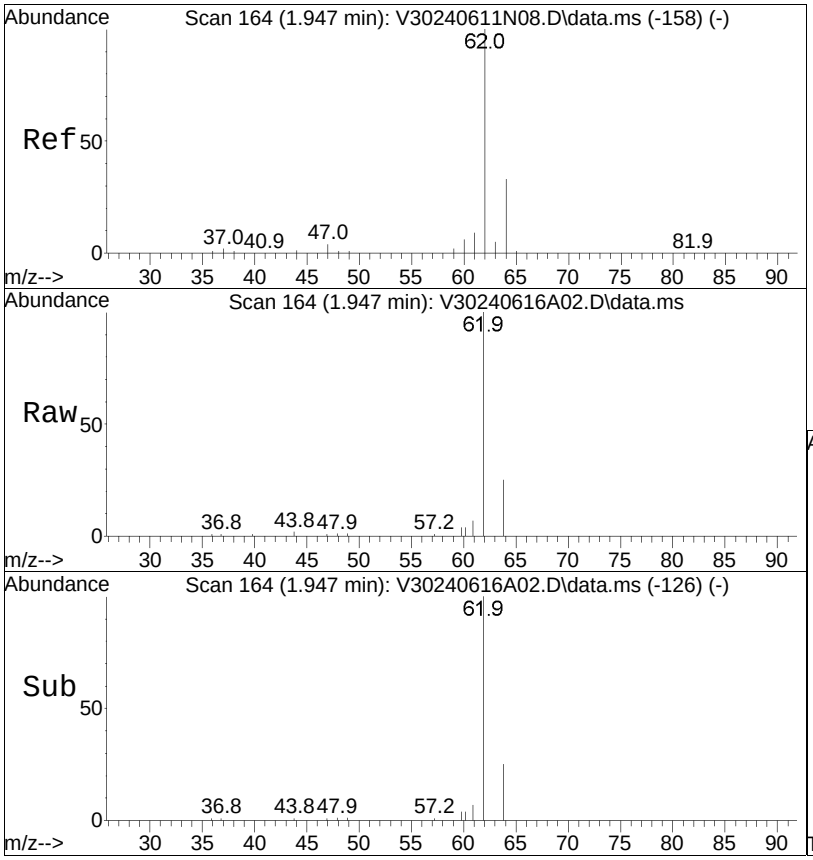


#3
Chloromethane
Concen: 9.45 ug/L
RT: 1.868 min Scan# 149
Delta R.T. -0.006 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 50 Resp: 111800

Ion	Ratio	Lower	Upper
50	100		
52	19.0	25.1	37.7#
47	5.8	6.5	9.7#

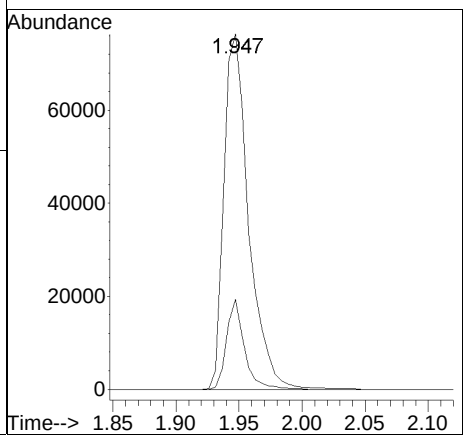


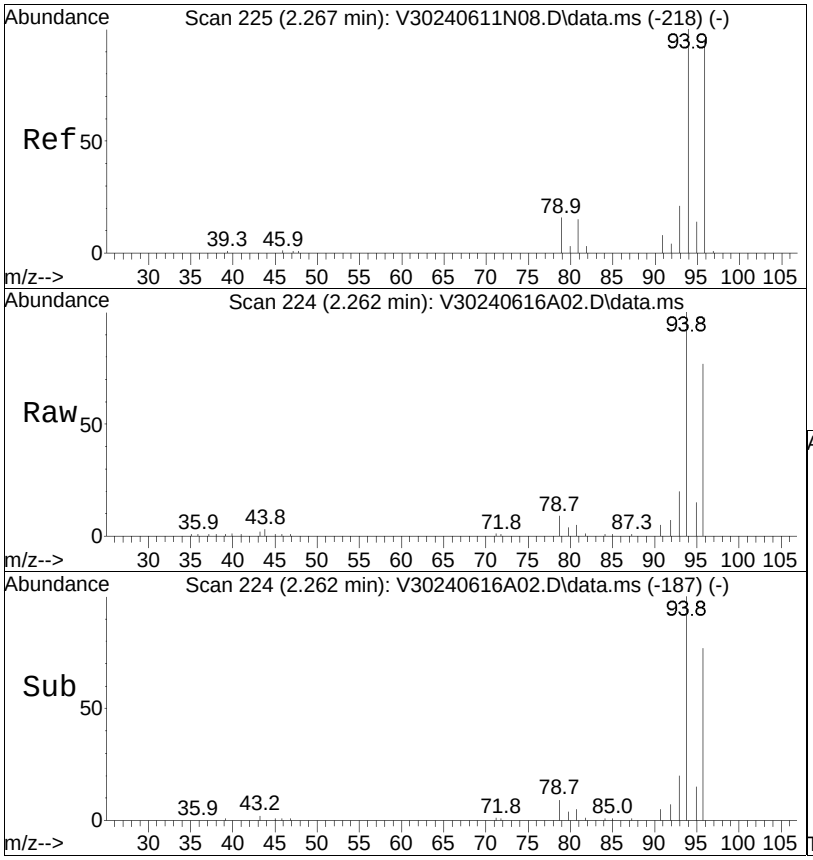


#4
Vinyl chloride
Concen: 9.79 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 62 Resp: 104366

Ion	Ratio	Lower	Upper
62	100		
64	18.3	25.7	38.5#

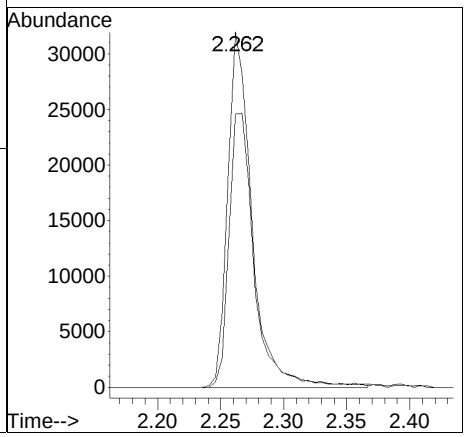


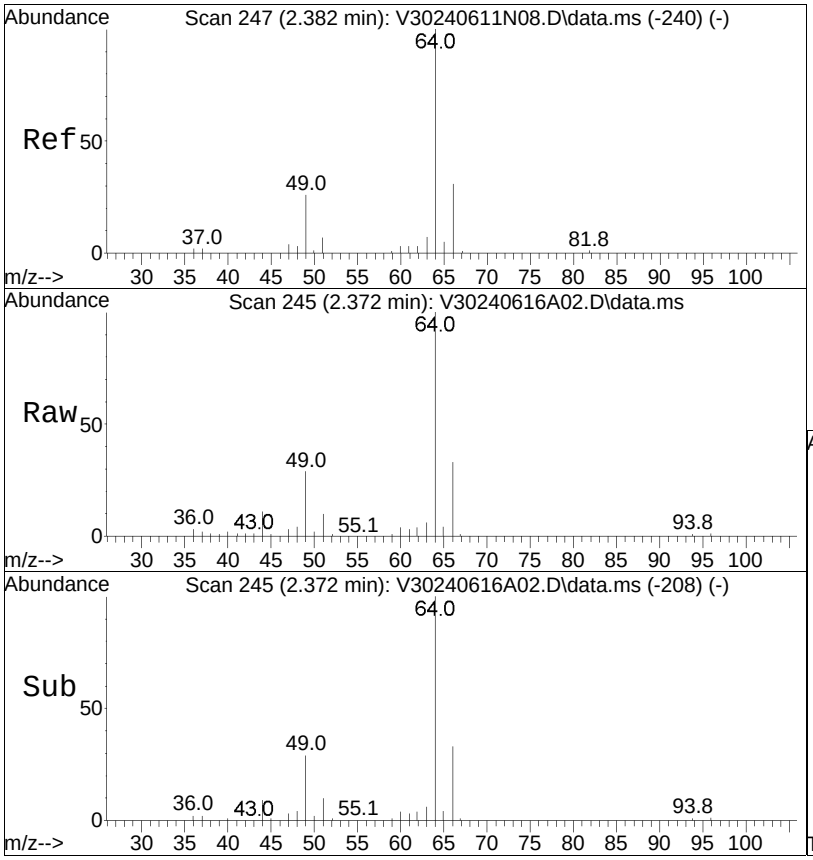


#5
Bromomethane
Concen: 8.18 ug/L
RT: 2.262 min Scan# 224
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 94 Resp: 43057

Ion	Ratio	Lower	Upper
94	100		
96	79.9	73.7	110.5

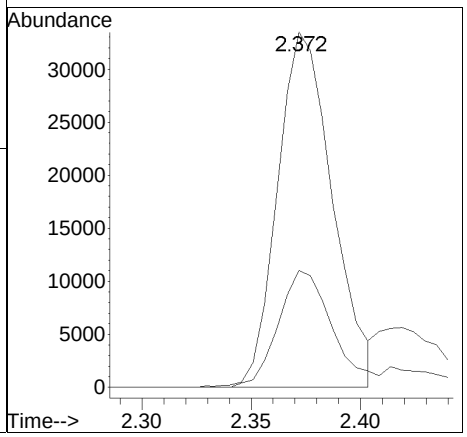


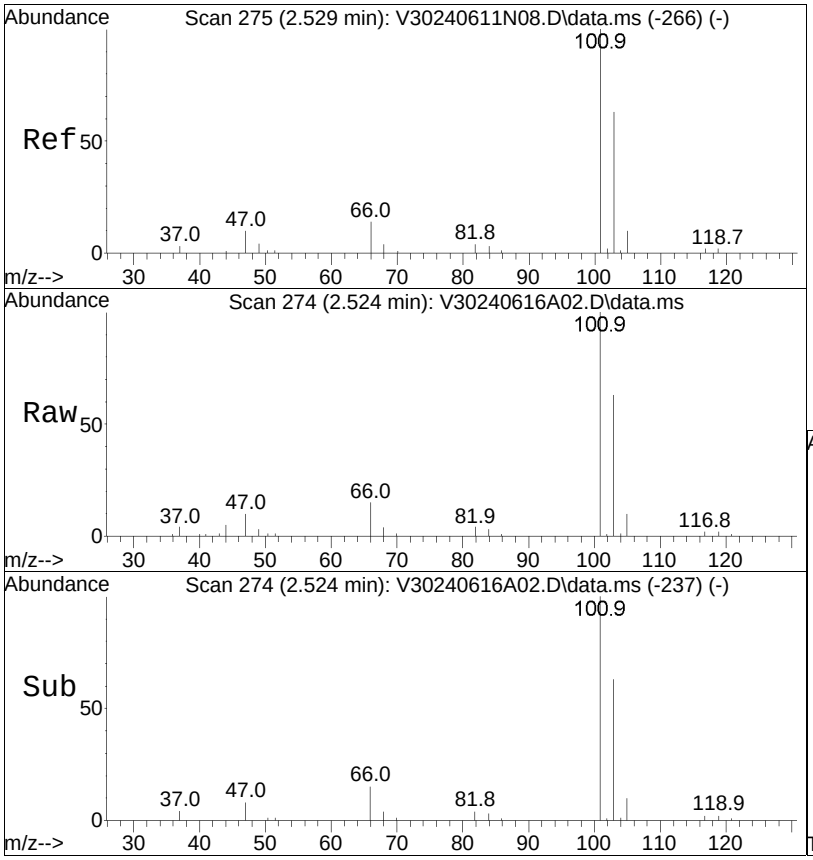


#6
Chloroethane
Concen: 8.69 ug/L
RT: 2.372 min Scan# 245
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 64 Resp: 58558

Ion	Ratio	Lower	Upper
64	100		
66	32.6	25.3	37.9

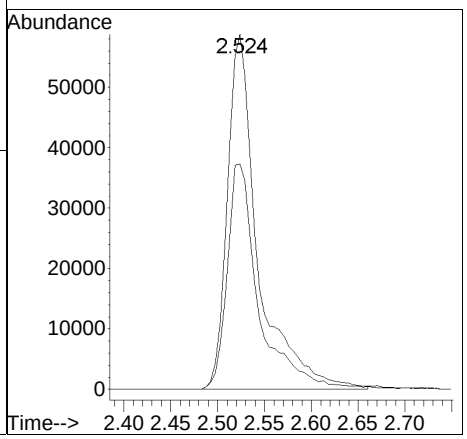


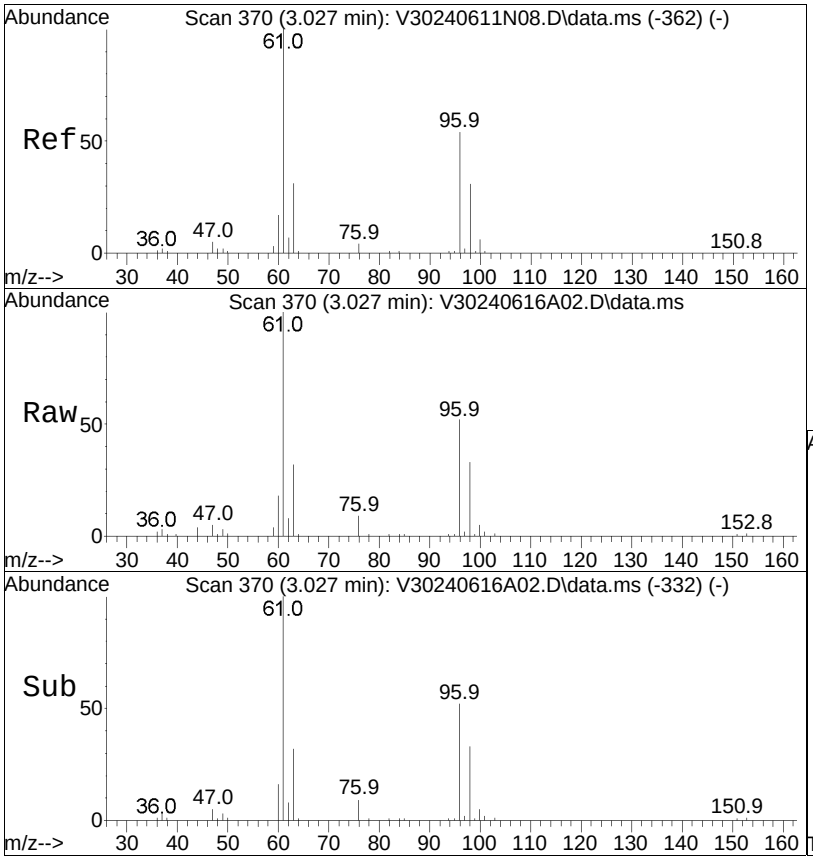


#7
Trichlorofluoromethane
Concen: 11.19 ug/L
RT: 2.524 min Scan# 274
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:101 Resp: 133925

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.0	76.4

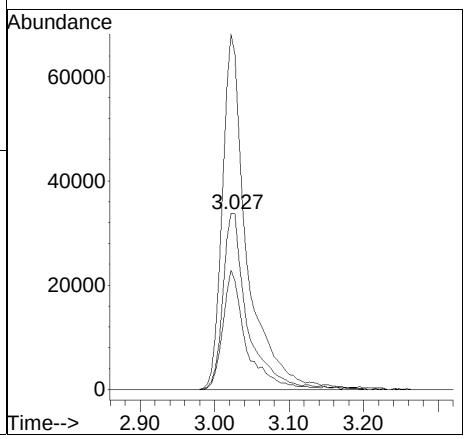


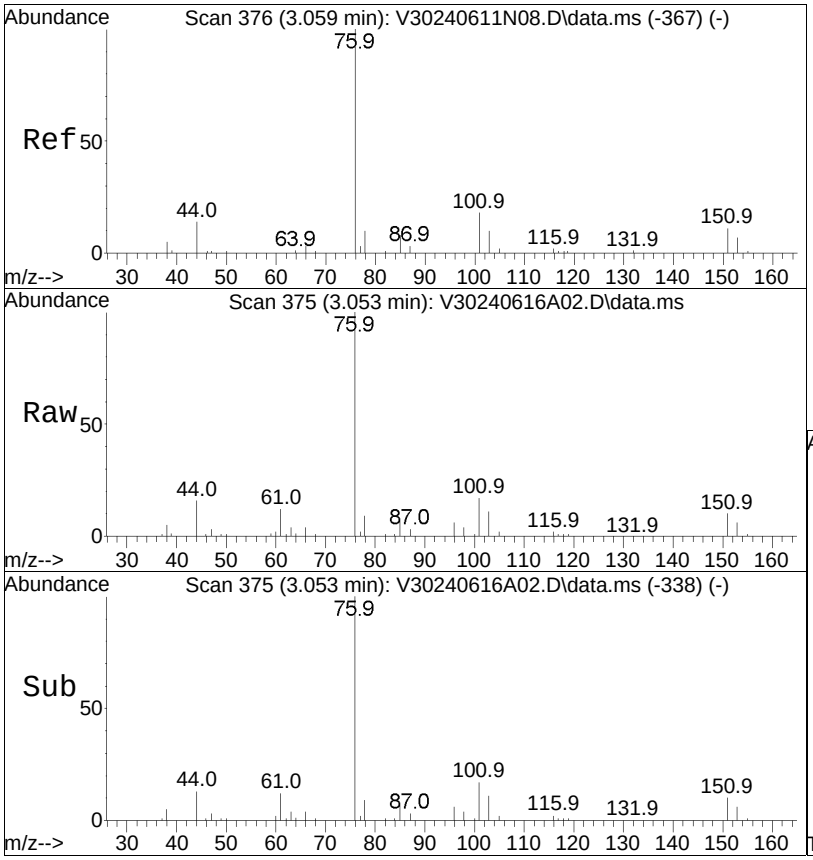


#10
1,1-Dichloroethene
Concen: 10.62 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 96 Resp: 77886

Ion	Ratio	Lower	Upper
96	100		
61	200.5	165.5	248.3
63	63.5	51.9	77.9

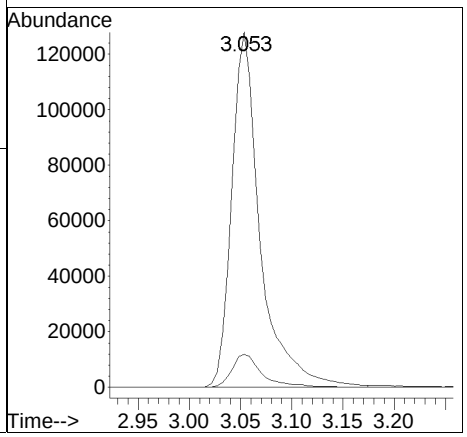


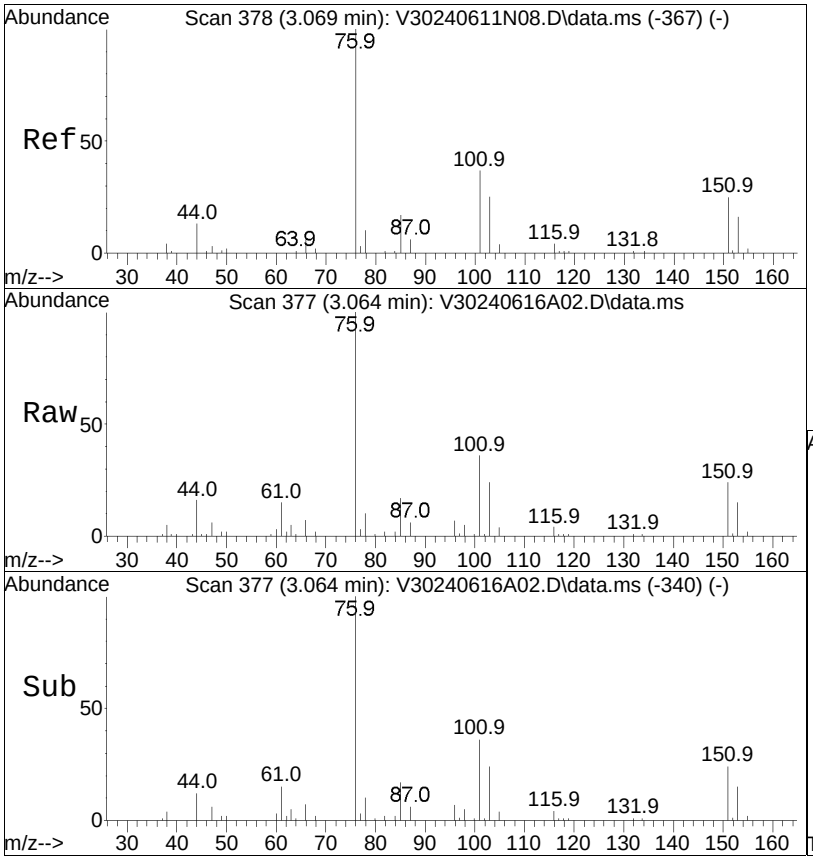


#11
Carbon disulfide
Concen: 10.36 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 76 Resp: 248613

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

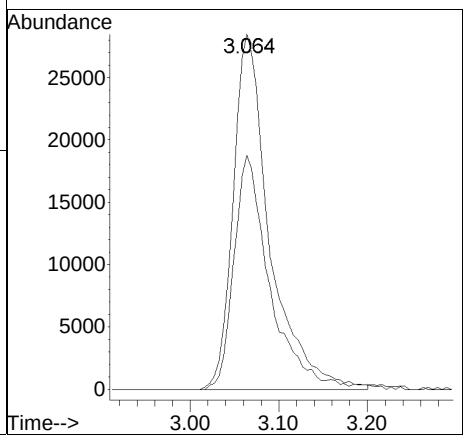


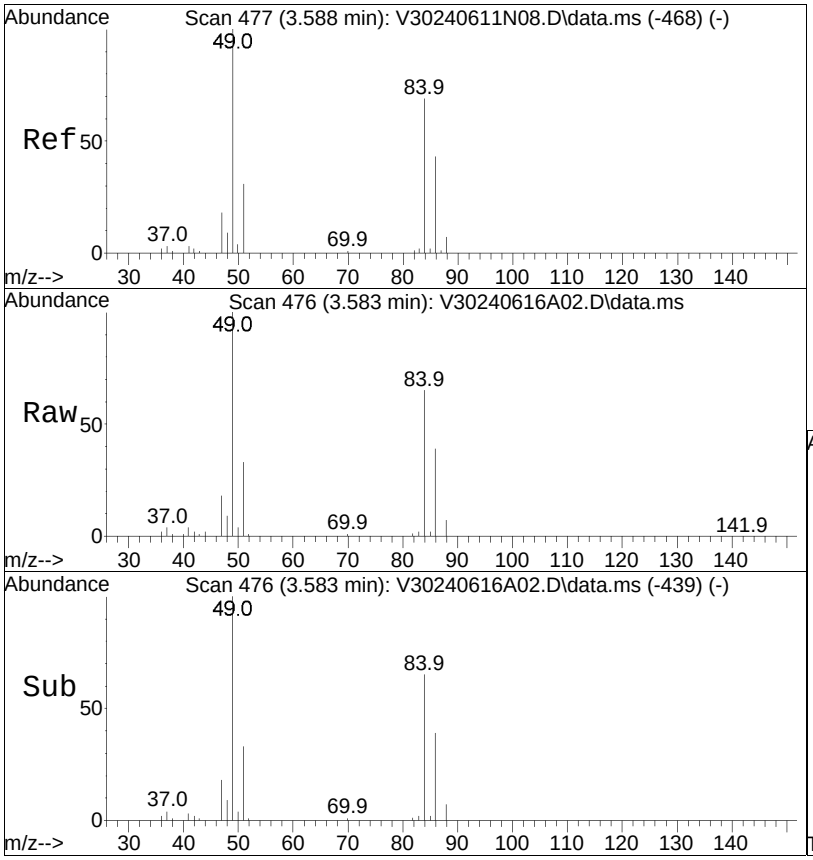


#12
Freon-113
Concen: 11.21 ug/L
RT: 3.064 min Scan# 377
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:101 Resp: 81434

Ion	Ratio	Lower	Upper
101	100		
151	64.6	51.9	77.9

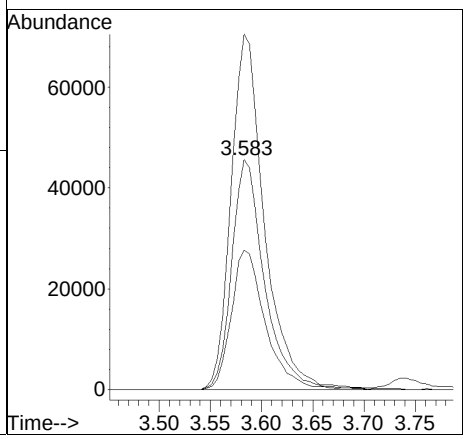


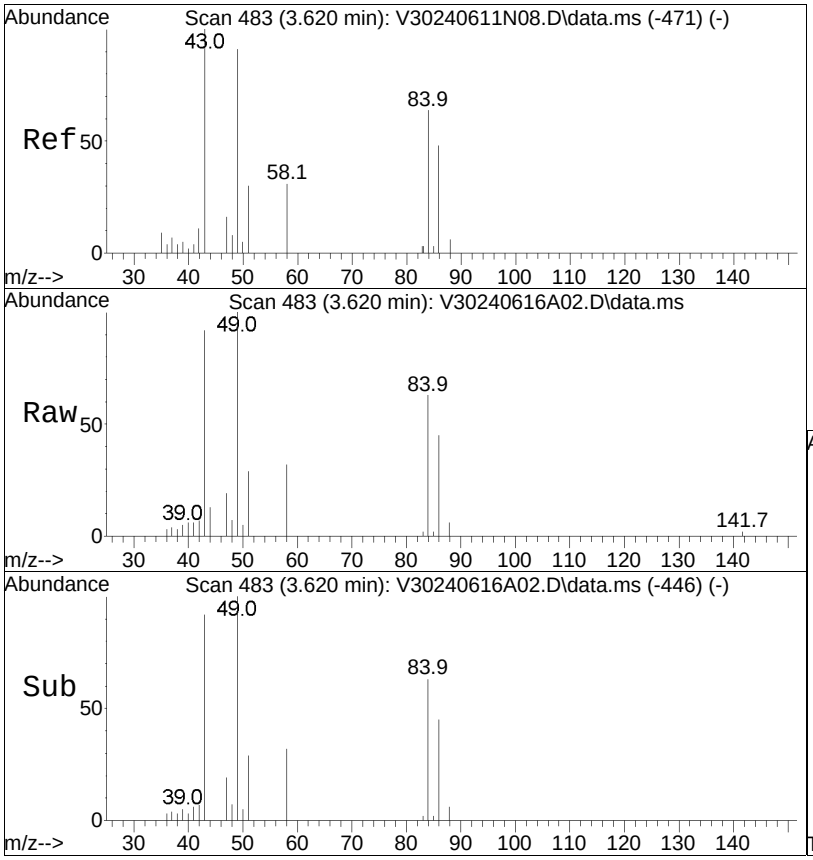


#15
Methylene chloride
Concen: 10.26 ug/L
RT: 3.583 min Scan# 476
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 84 Resp: 101318

Ion	Ratio	Lower	Upper
84	100		
86	63.2	41.7	86.5
49	157.6	103.9	215.9

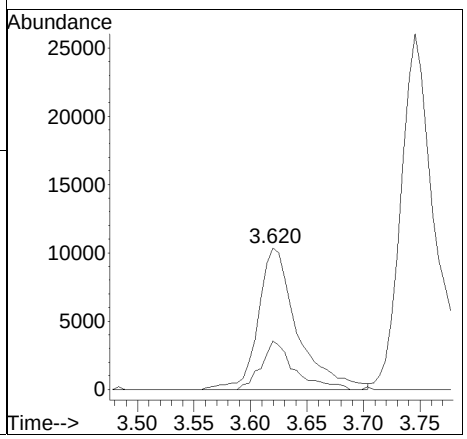


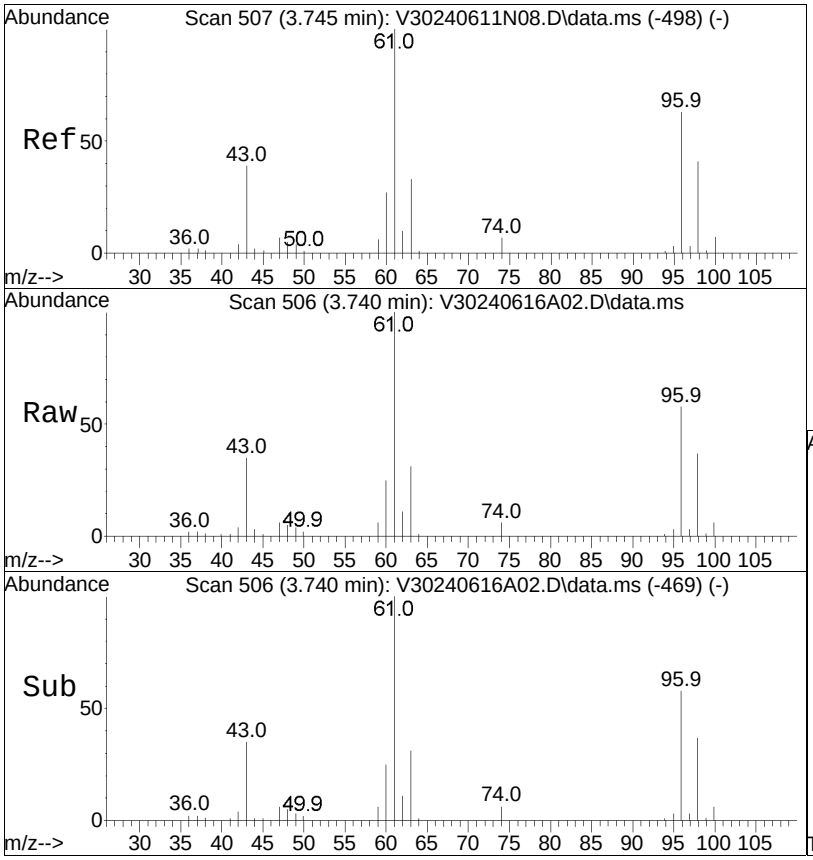


#17
Acetone
Concen: 12.76 ug/L
RT: 3.620 min Scan# 483
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 43 Resp: 24869

Ion	Ratio	Lower	Upper
43	100		
58	29.0	20.1	30.1

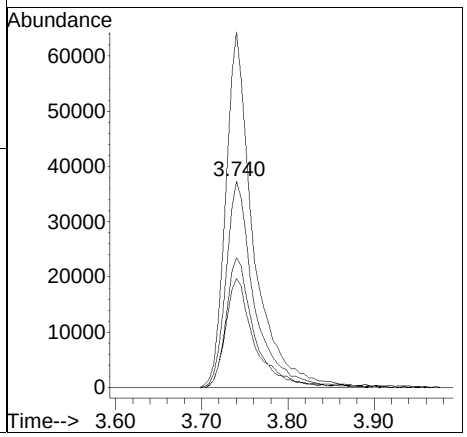


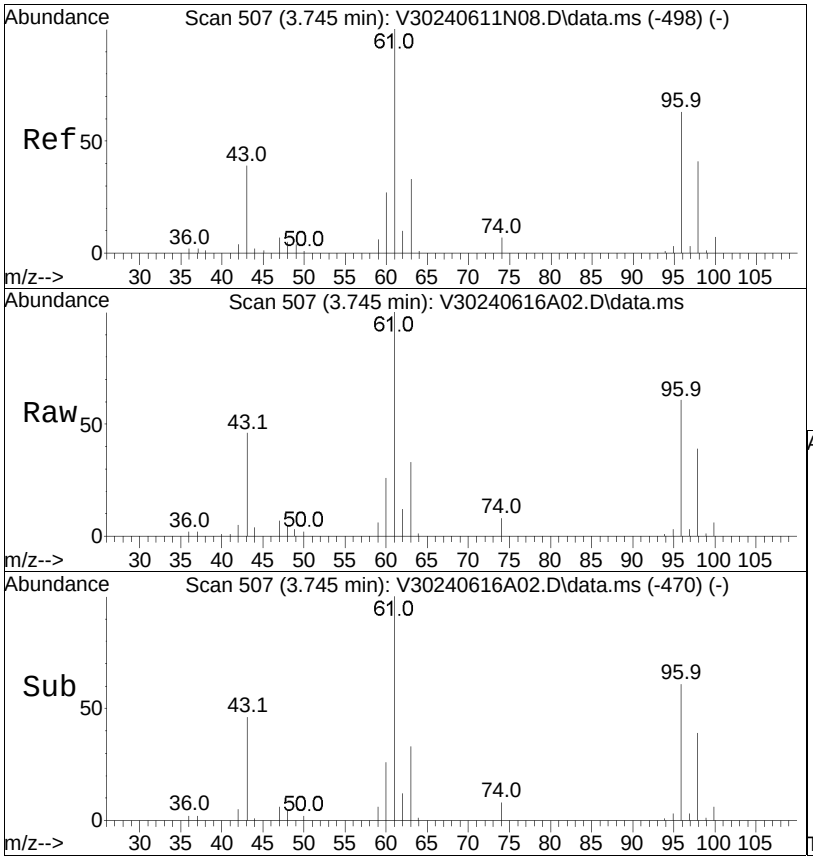


#18
trans-1,2-Dichloroethene
Concen: 10.61 ug/L
RT: 3.740 min Scan# 506
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 96 Resp: 85914

Ion	Ratio	Lower	Upper
96	100		
61	166.8	113.6	236.0
98	62.4	40.8	84.8
63	52.8	36.5	75.7

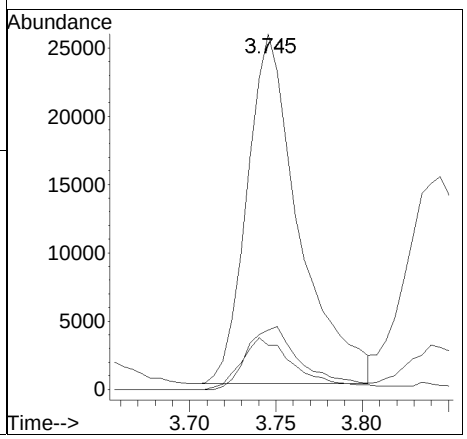


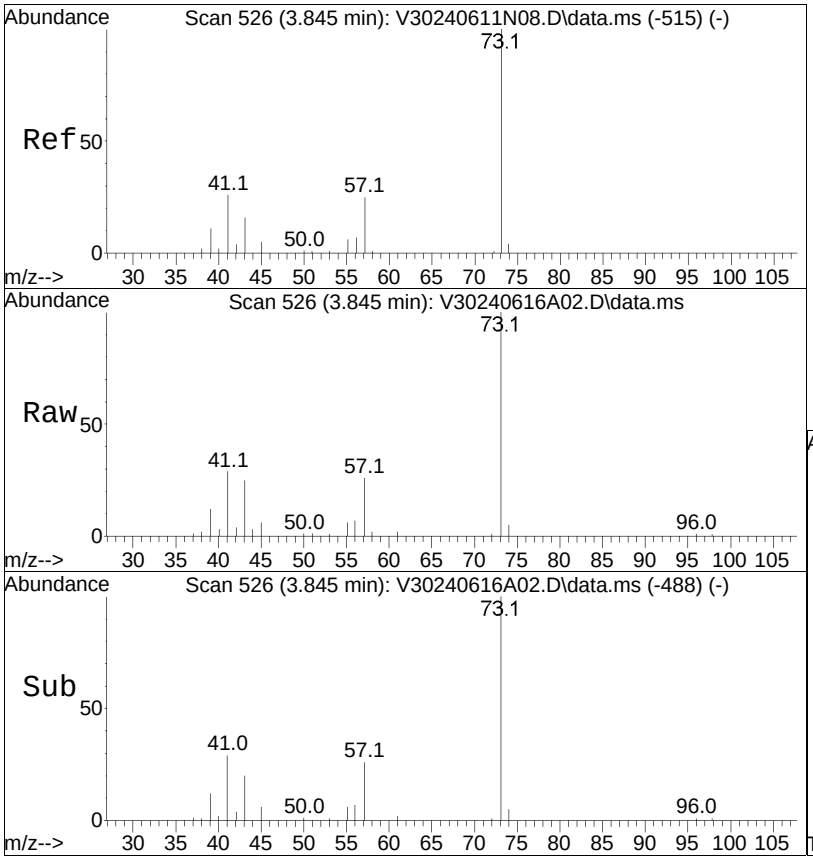


#19
Methyl acetate
Concen: 10.73 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 43 Resp: 53746

Ion	Ratio	Lower	Upper
43	100		
74	19.0	14.6	22.0
59	15.8	9.3	13.9#

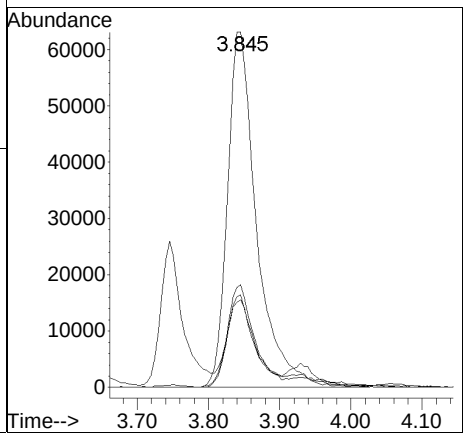


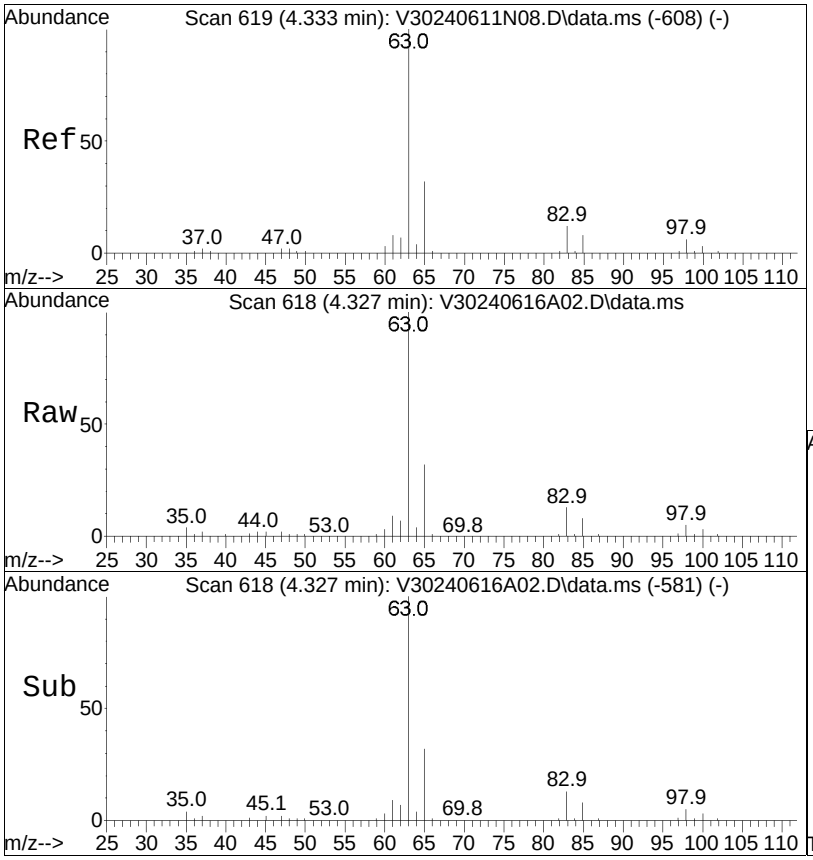


#21
Methyl tert-butyl ether
Concen: 10.34 ug/L
RT: 3.845 min Scan# 526
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 73 Resp: 182420

Ion	Ratio	Lower	Upper
73	100		
57	24.4	15.5	32.1
43	18.9	16.6	34.6
41	26.6	17.2	35.6

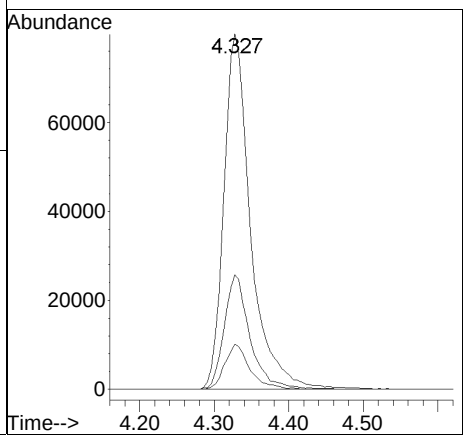


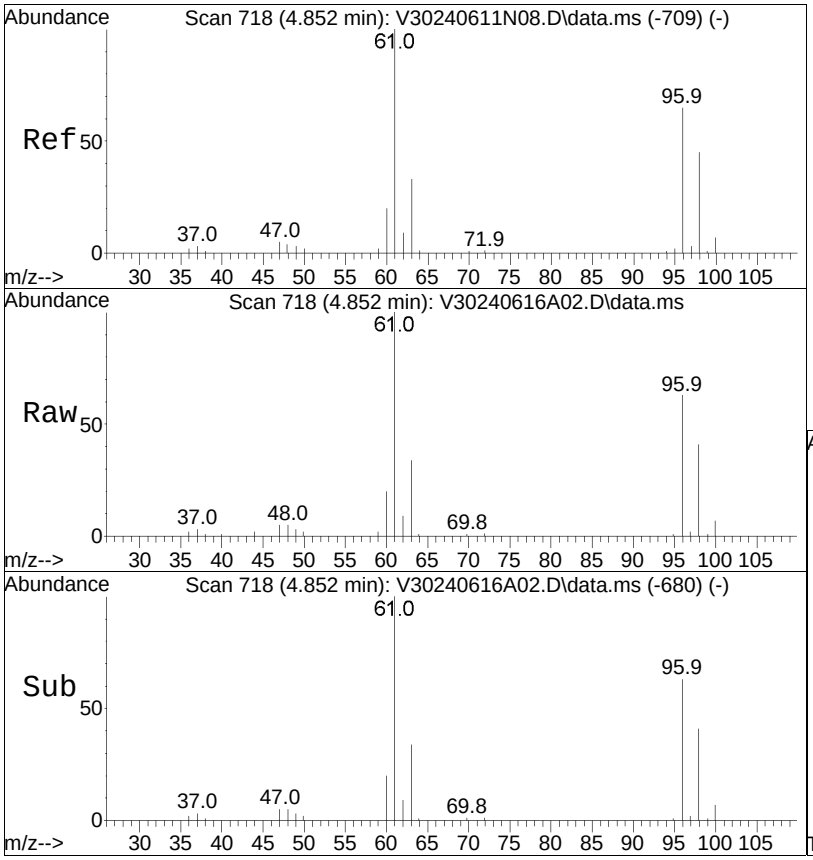


#25
1,1-Dichloroethane
Concen: 11.05 ug/L
RT: 4.327 min Scan# 618
Delta R.T. -0.006 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 63 Resp: 200326

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.5	36.7
83	11.9	8.9	13.3

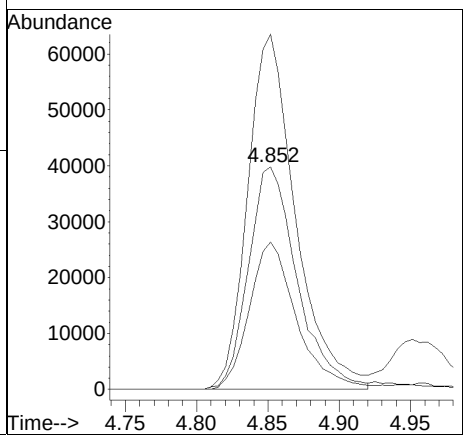


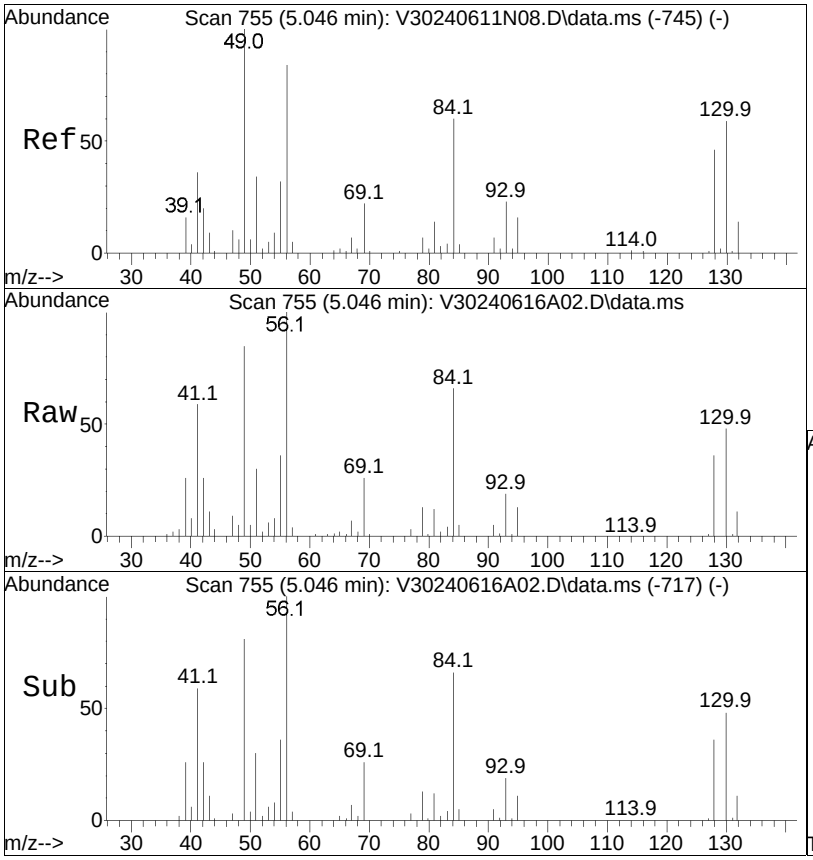


#30
cis-1,2-Dichloroethene
Concen: 10.20 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 96 Resp: 94712

Ion	Ratio	Lower	Upper
96	100		
61	157.5	129.3	193.9
98	64.4	51.4	77.2

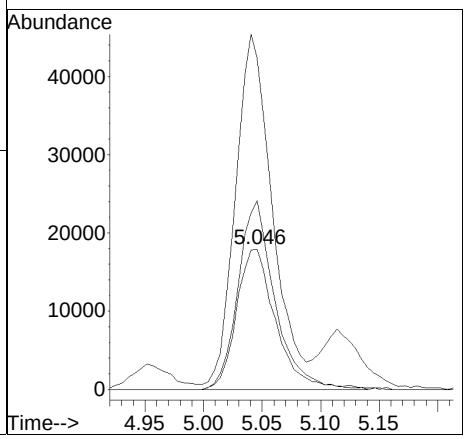


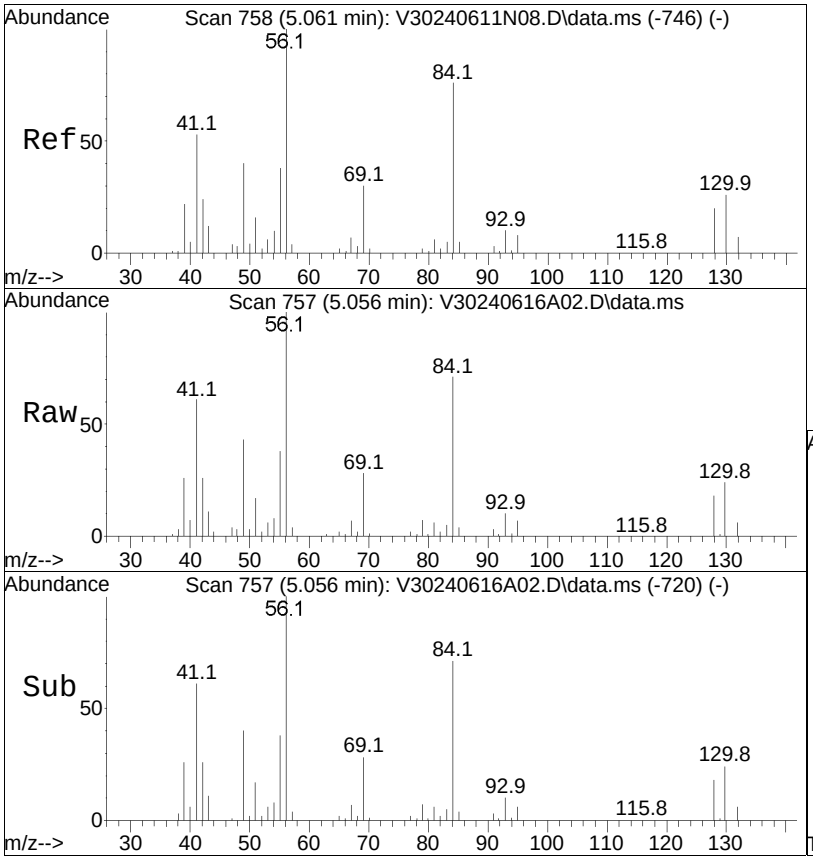


#33
Bromochloromethane
Concen: 10.32 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:128 Resp: 41639

Ion	Ratio	Lower	Upper
128	100		
49	238.4	214.8	322.2
130	125.6	105.4	158.2

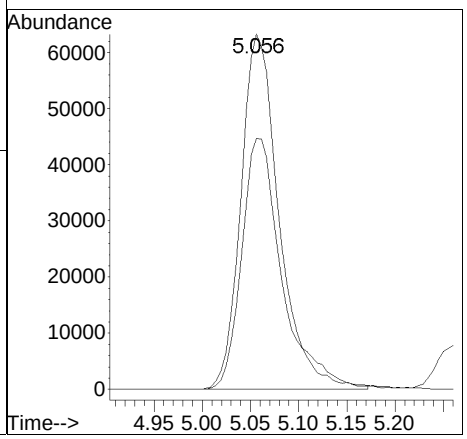


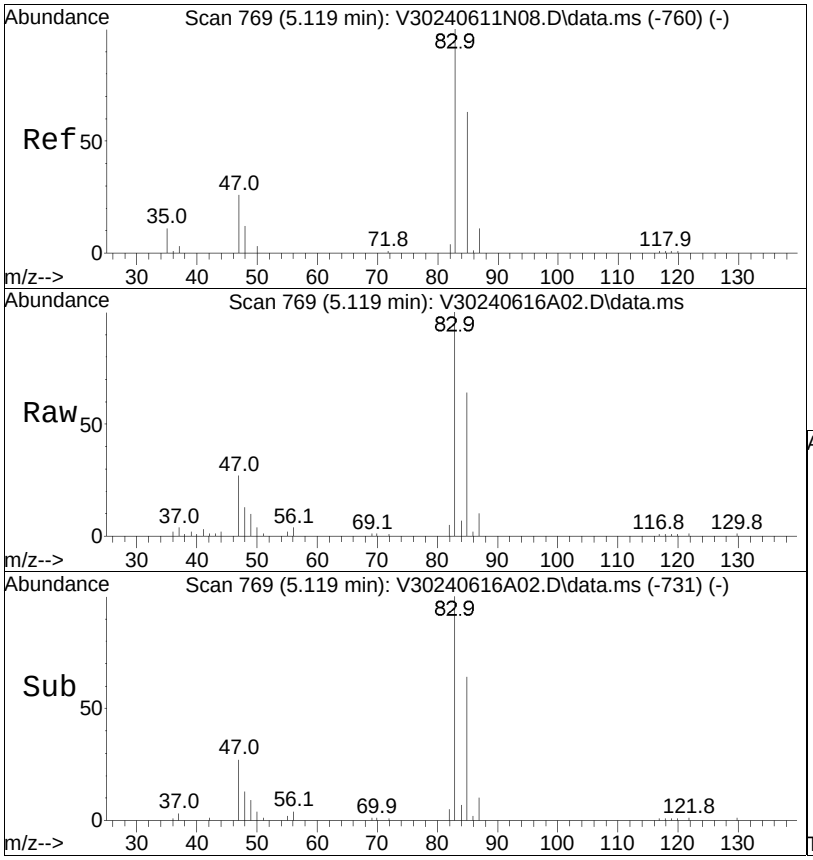


#34
Cyclohexane
Concen: 11.79 ug/L
RT: 5.056 min Scan# 757
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 56 Resp: 174746

Ion	Ratio	Lower	Upper
56	100		
84	74.8	49.9	103.5

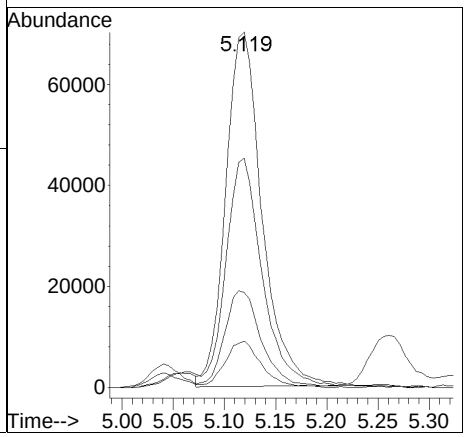


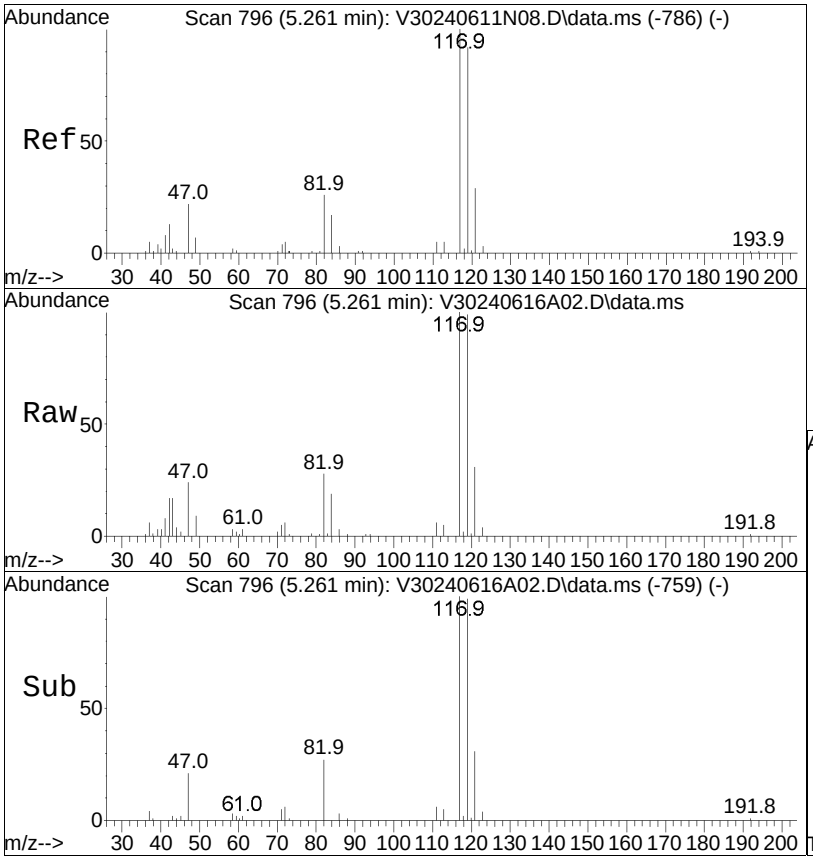


#35
Chloroform
Concen: 10.73 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 83 Resp: 173722

Ion	Ratio	Lower	Upper
83	100		
85	63.9	41.4	86.0
47	26.8	20.5	42.5
48	13.0	9.9	20.5

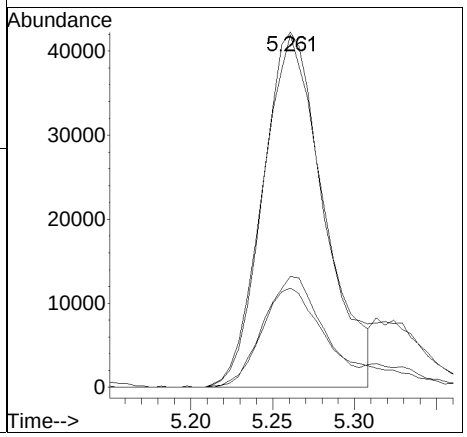


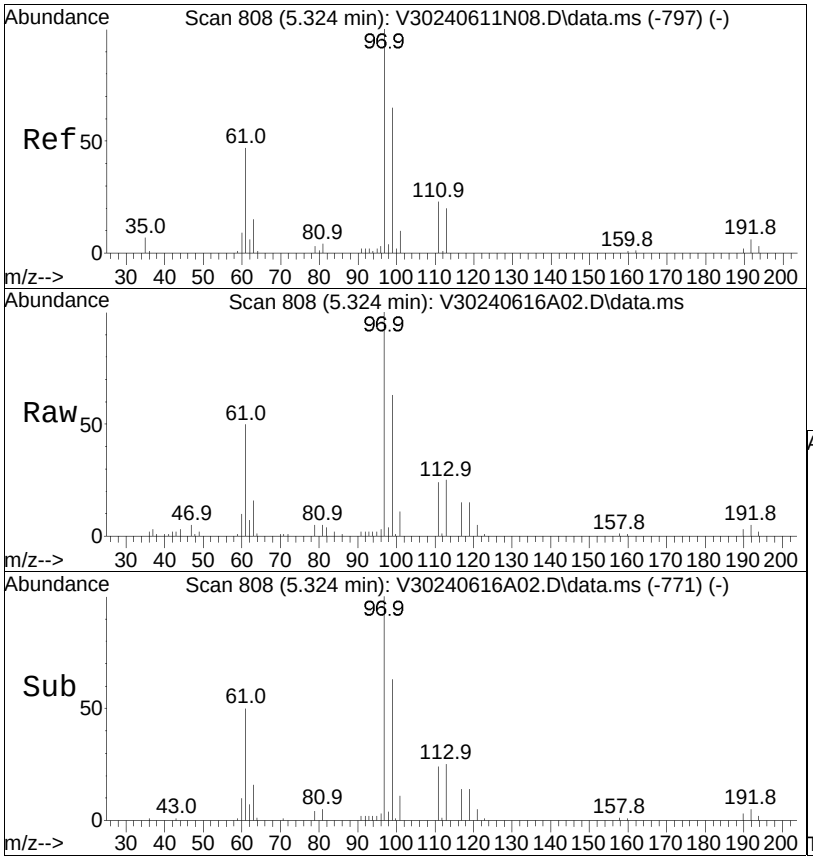


#37
Carbon tetrachloride
Concen: 11.46 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:117 Resp: 111444

Ion	Ratio	Lower	Upper
117	100		
119	98.7	62.0	128.8
121	30.1	19.6	40.6
82	33.2	18.8	39.0

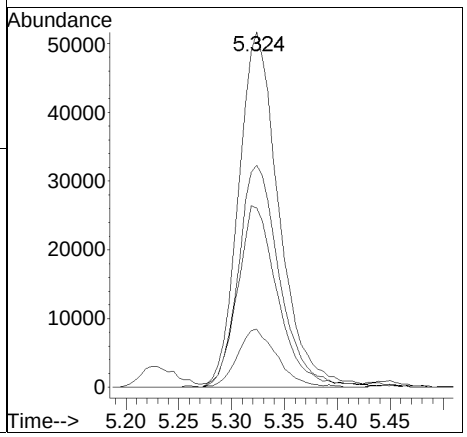


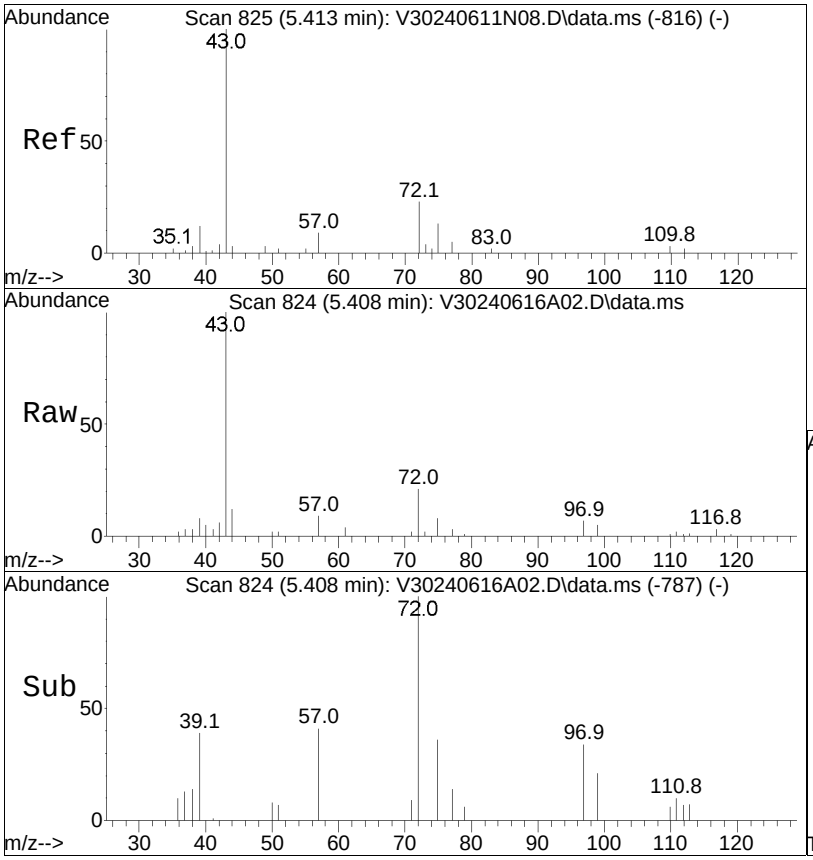


#40
1,1,1-Trichloroethane
Concen: 11.22 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 97 Resp: 137883

Ion	Ratio	Lower	Upper
97	100		
99	63.6	40.6	84.4
61	51.1	35.0	72.8
63	16.2	11.1	23.0

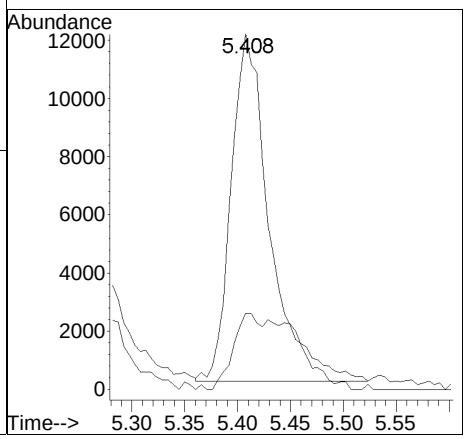


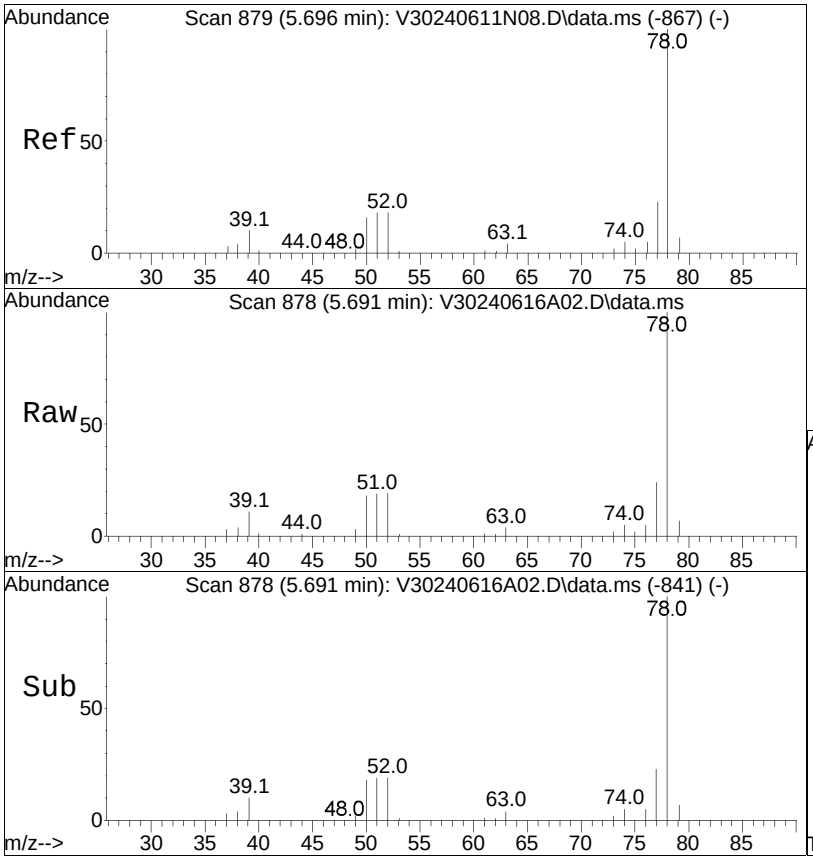


#42
2-Butanone
Concen: 11.10 ug/L
RT: 5.408 min Scan# 824
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 43 Resp: 30257

Ion	Ratio	Lower	Upper
43	100		
72	15.9	18.2	27.4#

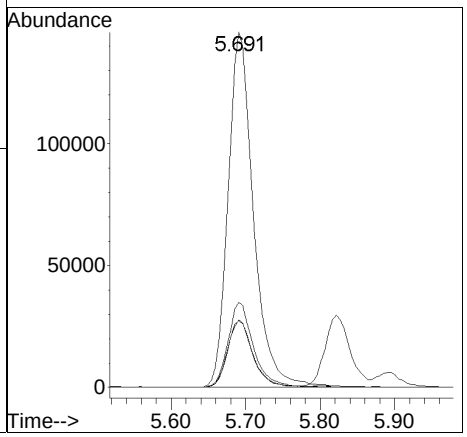


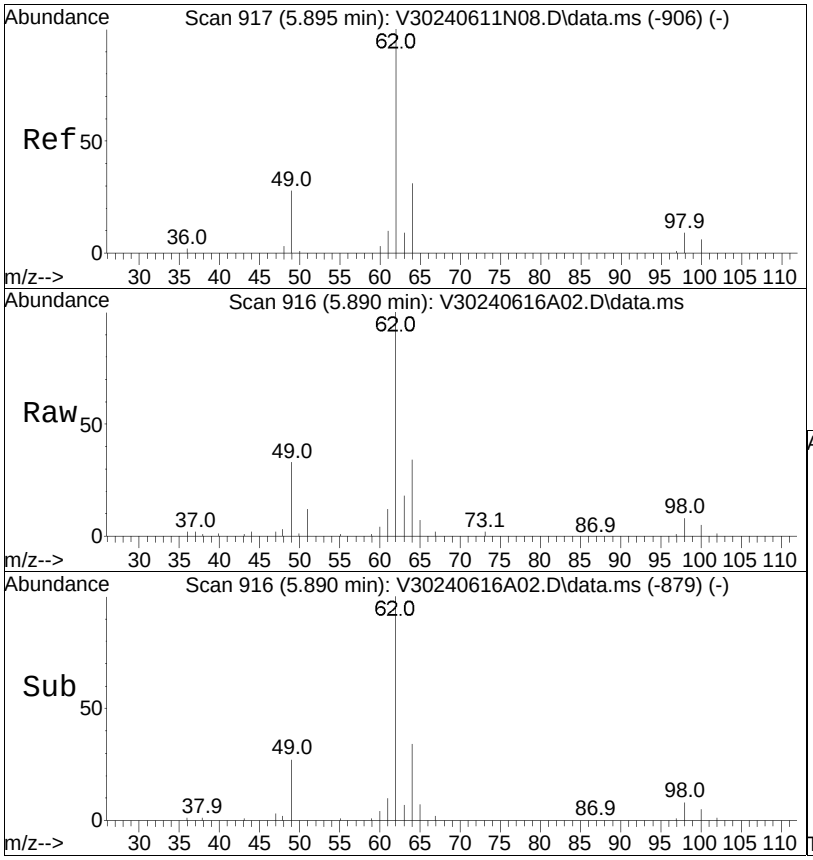


#45
Benzene
Concen: 10.64 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 78 Resp: 347252

Ion	Ratio	Lower	Upper
78	100		
77	23.9	15.6	32.4
51	18.9	12.9	26.7
52	18.7	12.4	25.7

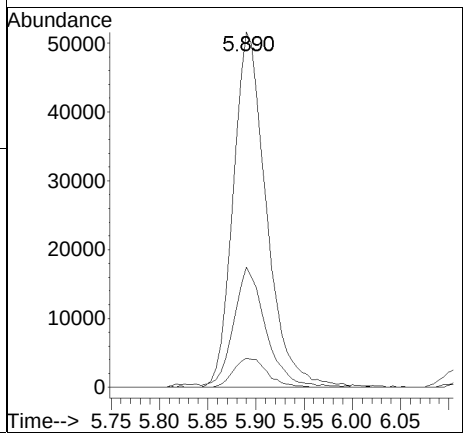


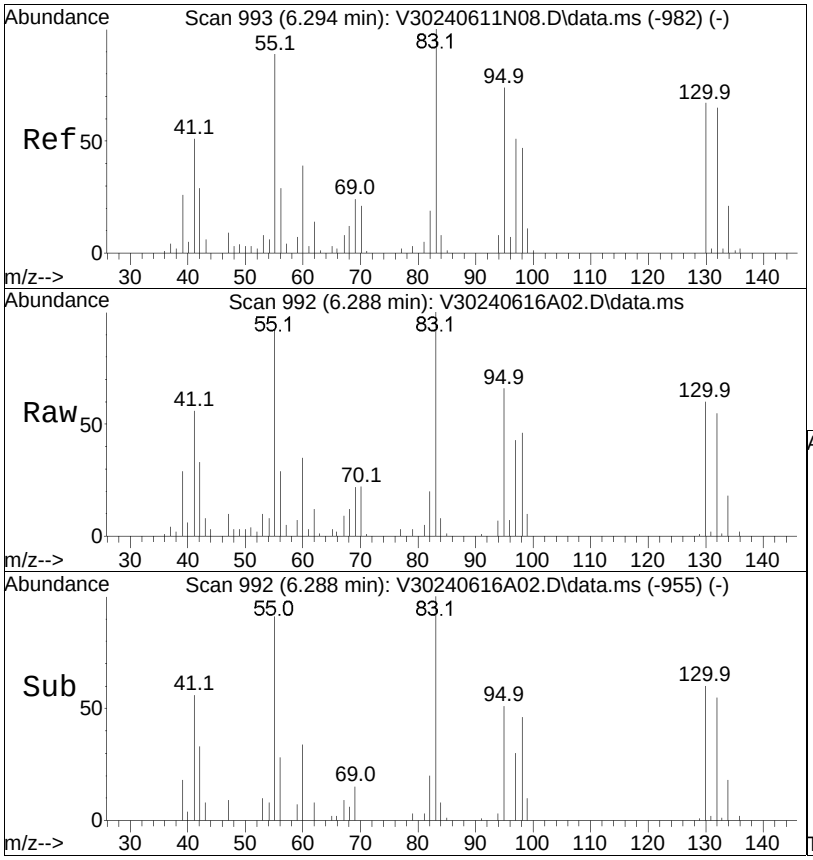


#48
1,2-Dichloroethane
Concen: 10.91 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 62 Resp: 123841

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.5	38.3
98	8.4	5.5	8.3#

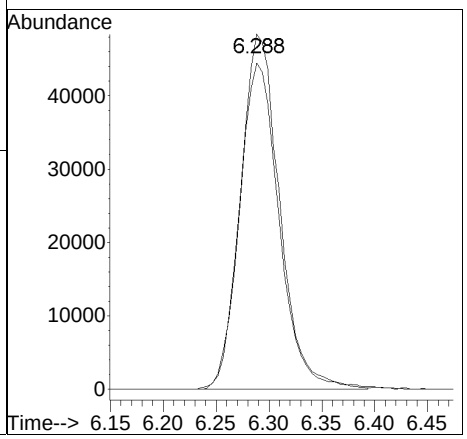


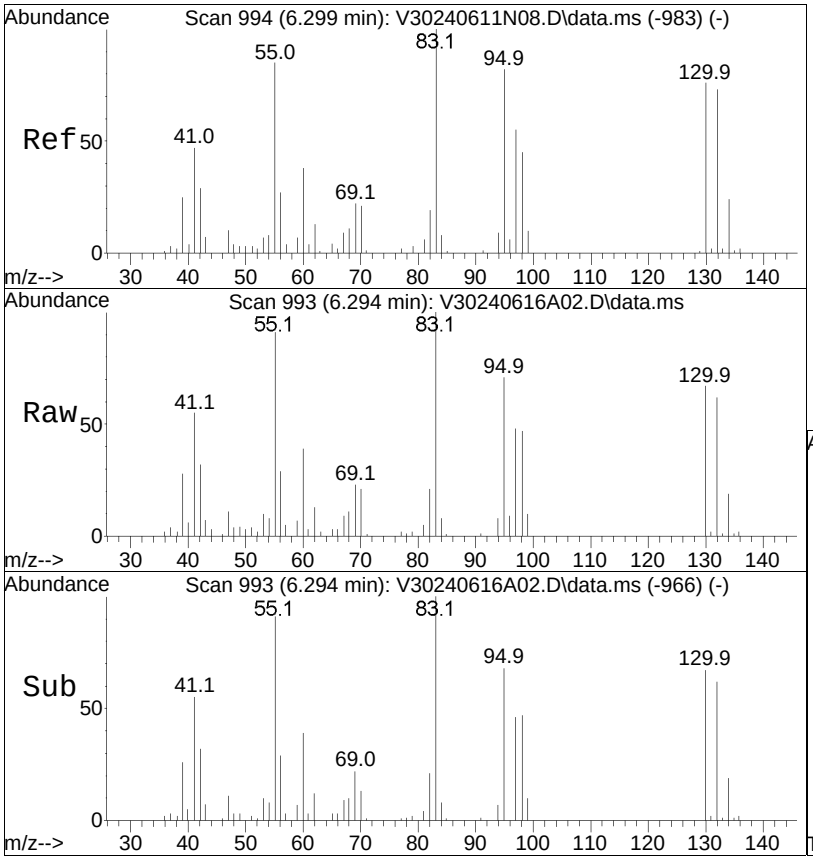


#51
Methyl cyclohexane
Concen: 10.49 ug/L
RT: 6.288 min Scan# 992
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 83 Resp: 125058

Ion	Ratio	Lower	Upper
83	100		
55	93.3	74.6	112.0

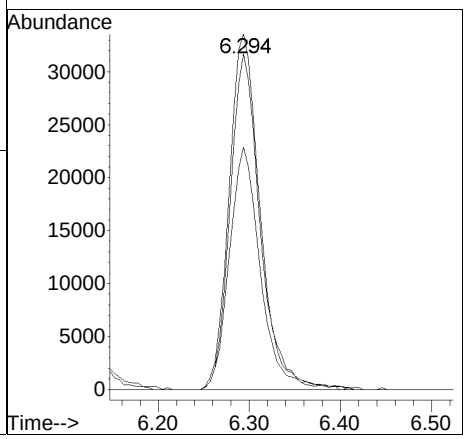


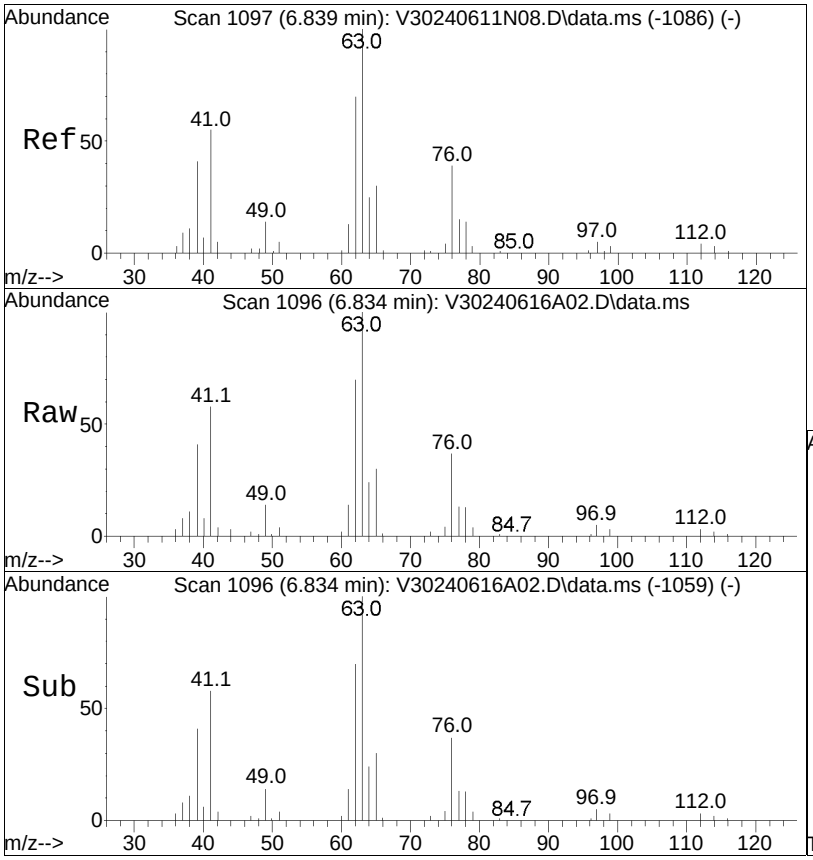


#52
Trichloroethene
Concen: 10.22 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 95 Resp: 80299

Ion	Ratio	Lower	Upper
95	100		
97	67.2	53.8	80.6
130	90.9	71.4	107.0

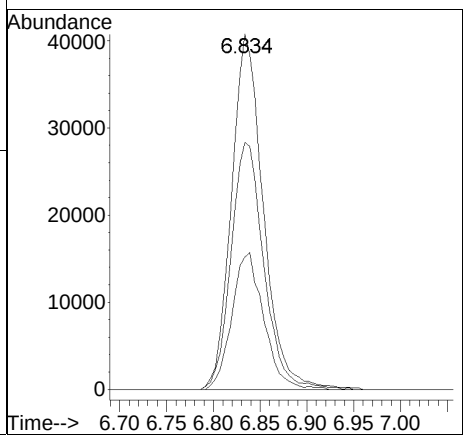


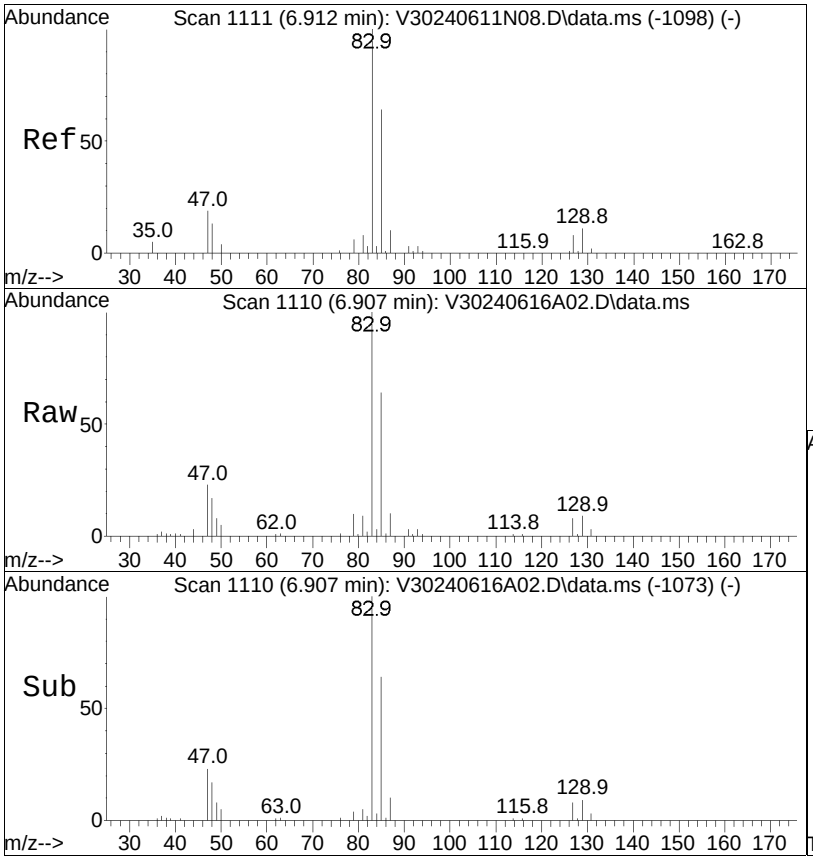


#55
1,2-Dichloropropane
Concen: 10.56 ug/L
RT: 6.834 min Scan# 1096
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 63 Resp: 96409

Ion	Ratio	Lower	Upper
63	100		
62	71.5	58.1	87.1
76	38.5	30.4	45.6

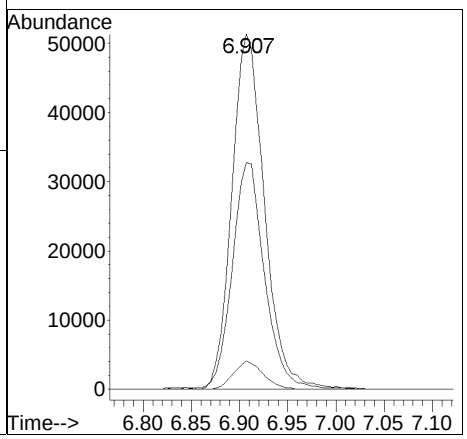


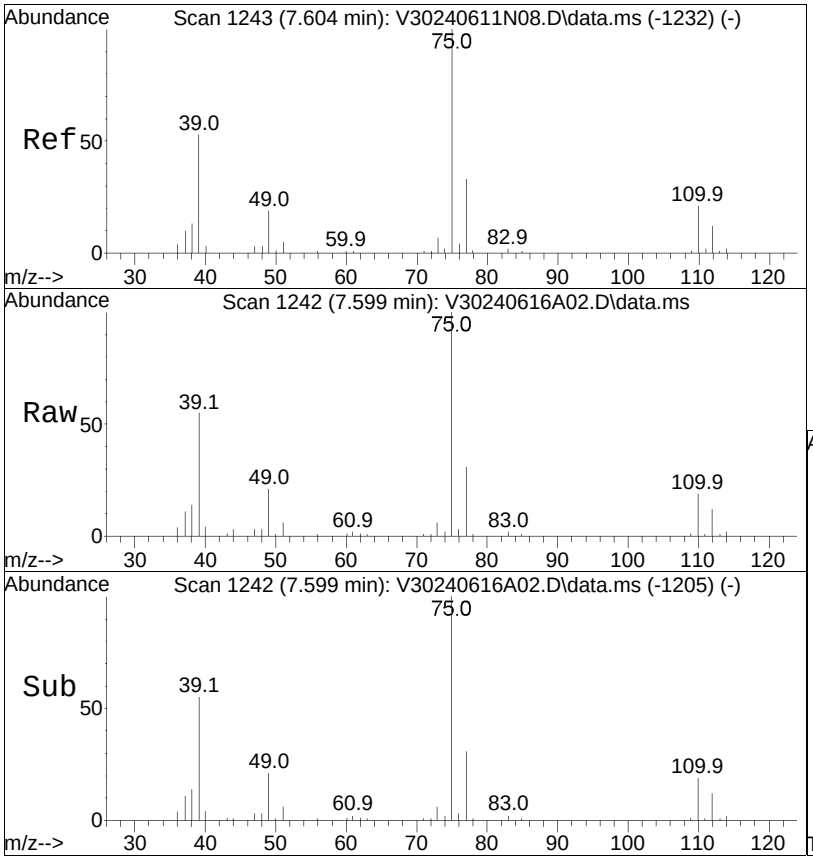


#58
Bromodichloromethane
Concen: 10.51 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 83 Resp: 121122

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.2	75.2
127	7.3	5.2	7.8

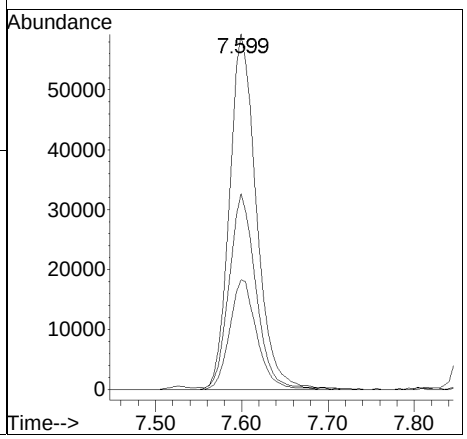


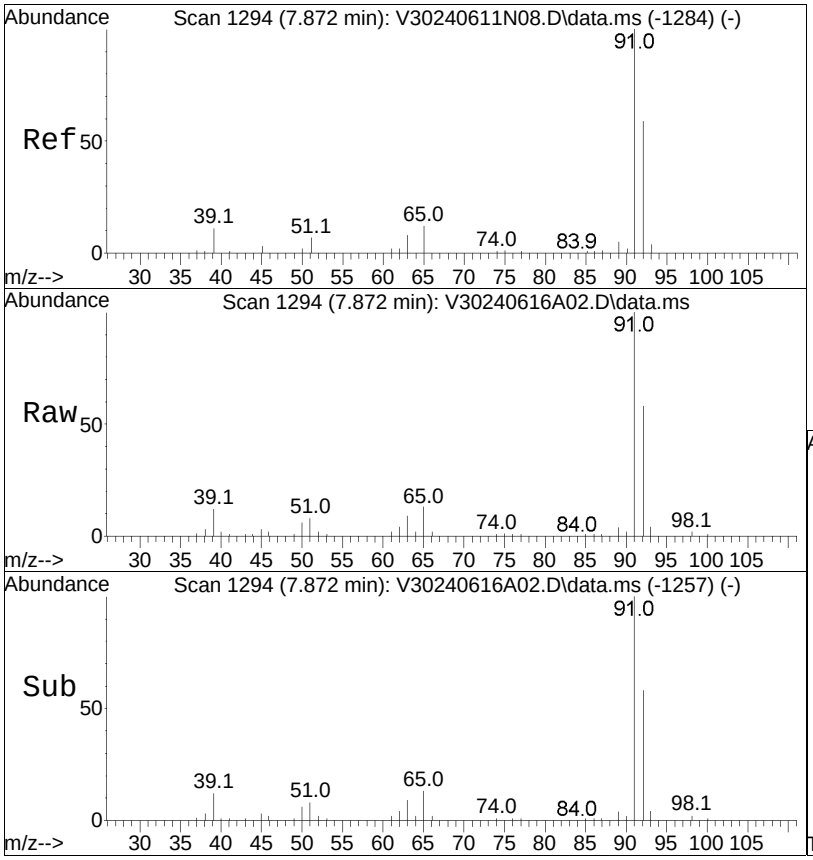


#62
cis-1,3-Dichloropropene
Concen: 10.78 ug/L
RT: 7.599 min Scan# 1242
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 75 Resp: 128872

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.2
39	54.9	54.6	82.0

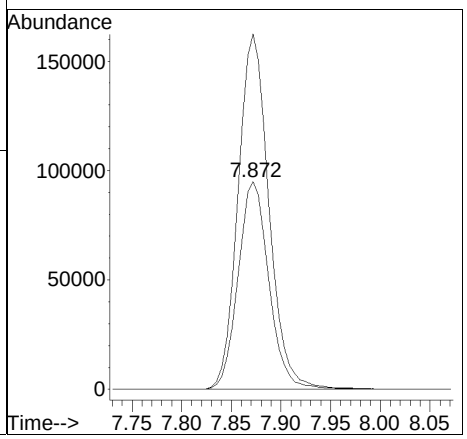


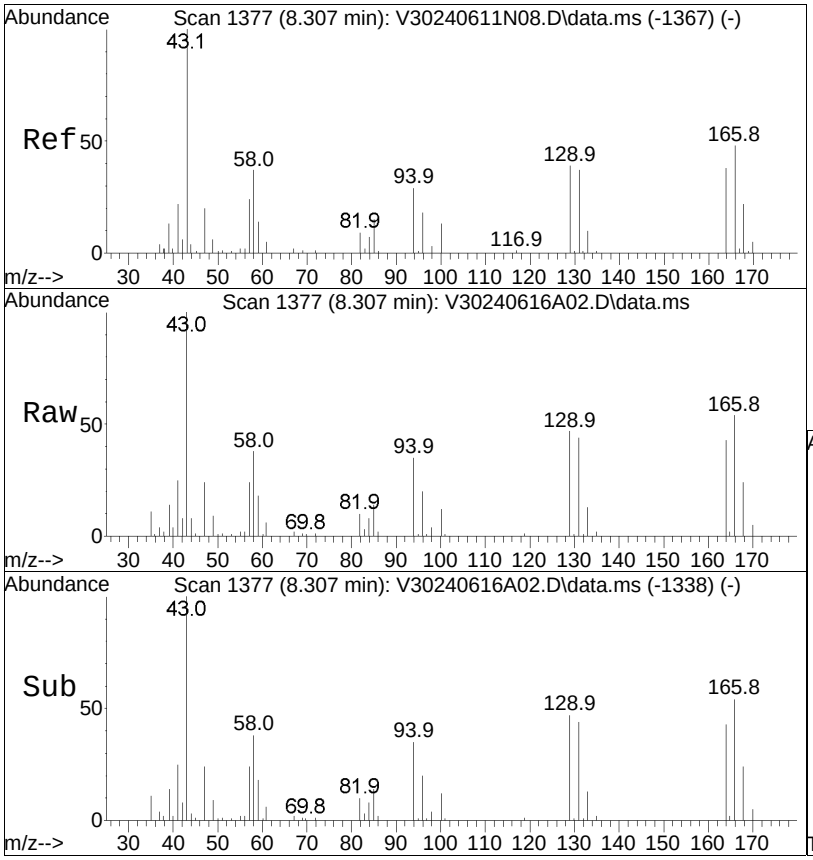


#65
Toluene
Concen: 9.92 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 92 Resp: 205065

Ion	Ratio	Lower	Upper
92	100		
91	171.2	137.5	206.3

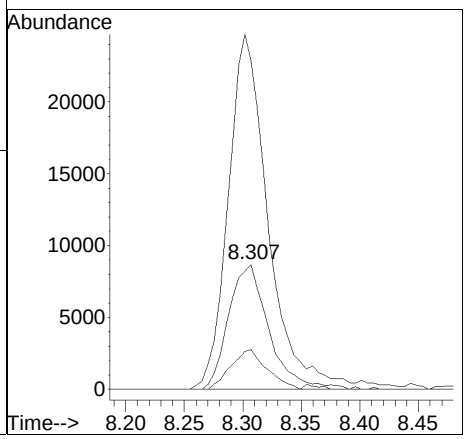


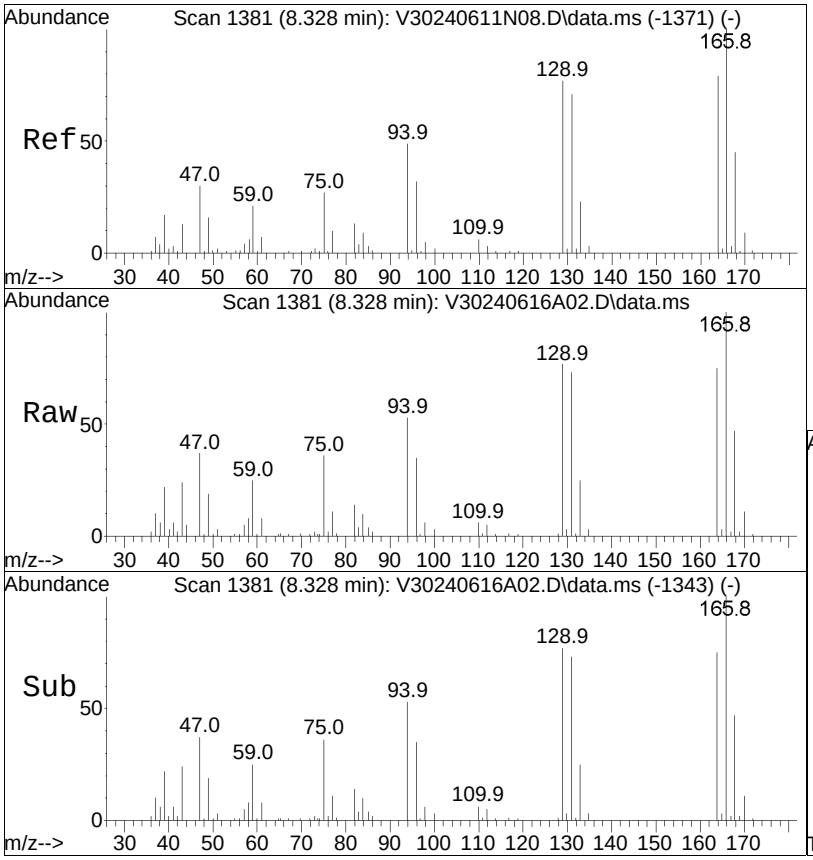


#66
4-Methyl-2-pentanone
Concen: 10.39 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 58 Resp: 20827

Ion	Ratio	Lower	Upper
58	100		
100	28.7	22.6	34.0
43	280.8	234.6	351.8

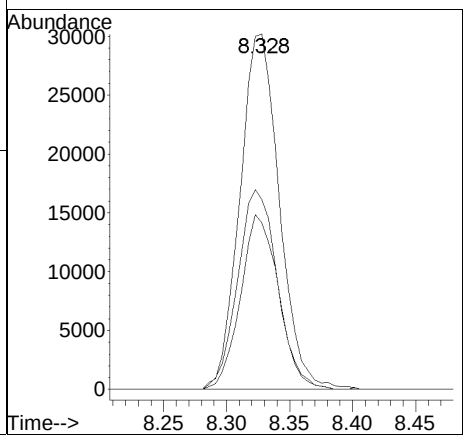


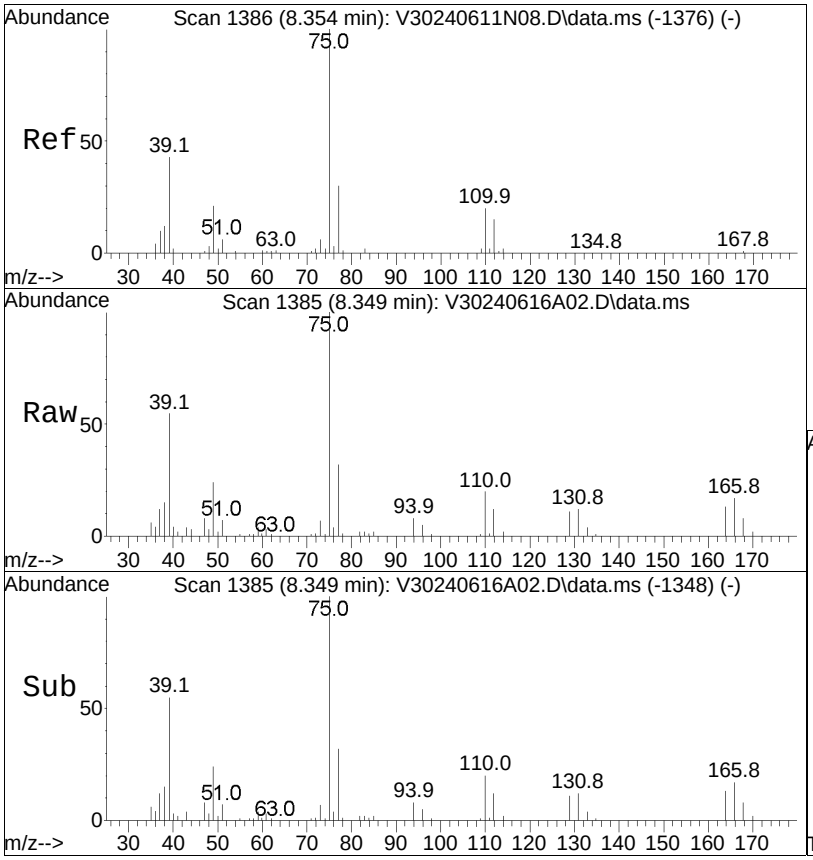


#67
Tetrachloroethene
Concen: 9.55 ug/L
RT: 8.328 min Scan# 1381
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:166 Resp: 65837

Ion	Ratio	Lower	Upper
166	100		
168	47.8	38.6	58.0
94	56.2	42.6	63.8

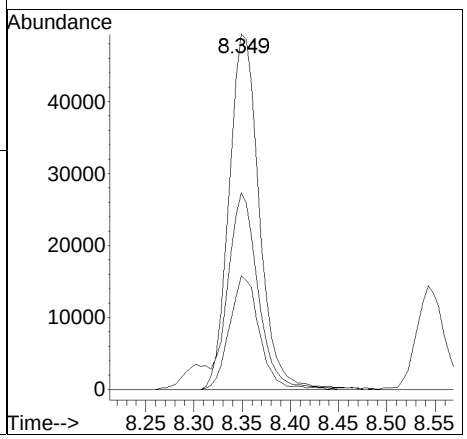


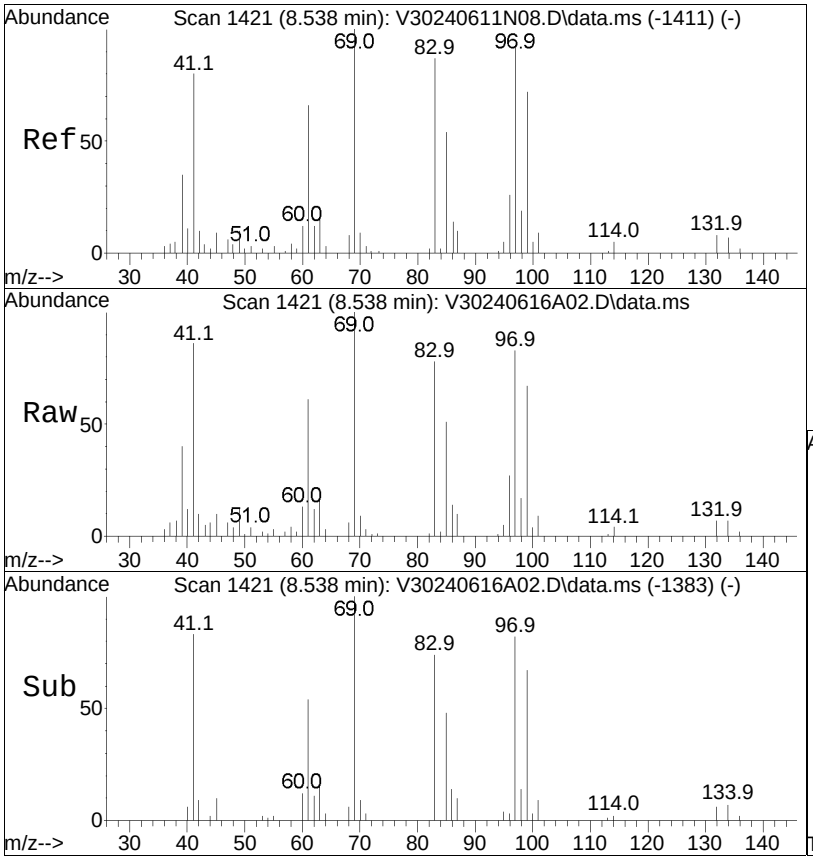


#69
trans-1,3-Dichloropropene
Concen: 10.25 ug/L
RT: 8.349 min Scan# 1385
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 75 Resp: 107871

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4
39	53.7	60.2	90.4#

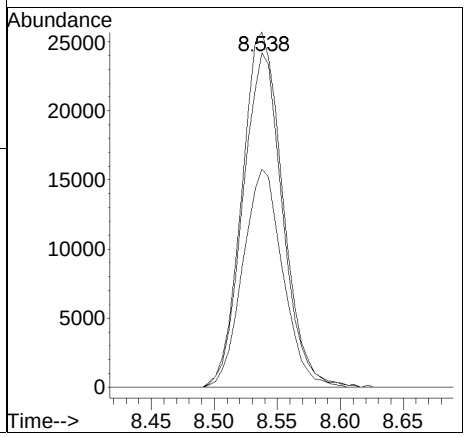


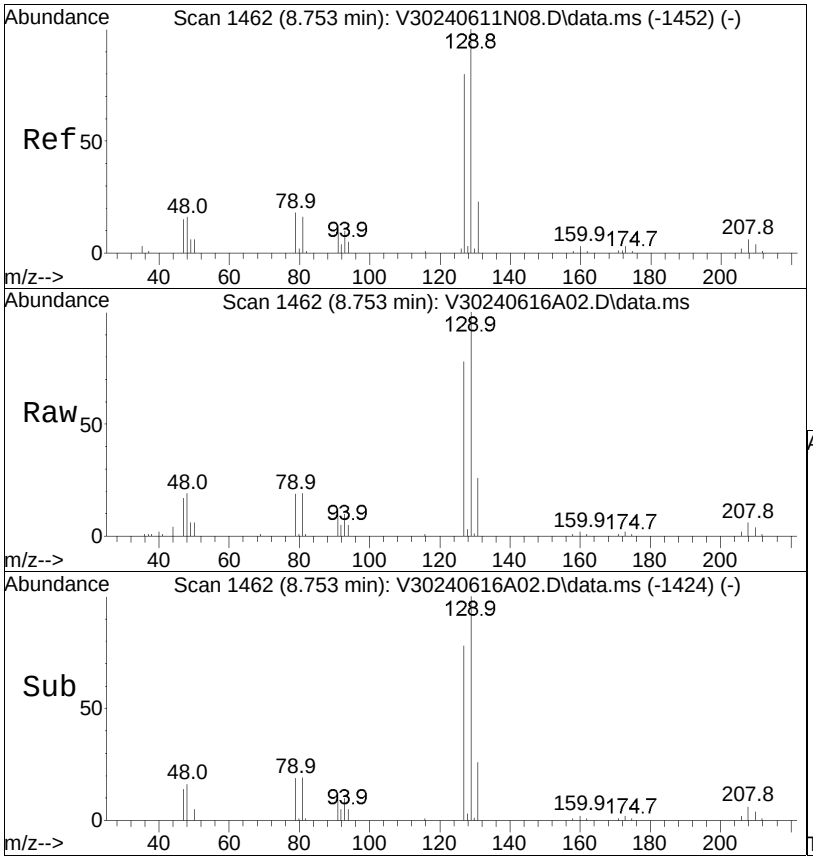


#72
1,1,2-Trichloroethane
Concen: 9.74 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 83 Resp: 53029

Ion	Ratio	Lower	Upper
83	100		
97	109.5	87.7	131.5
85	65.8	53.1	79.7

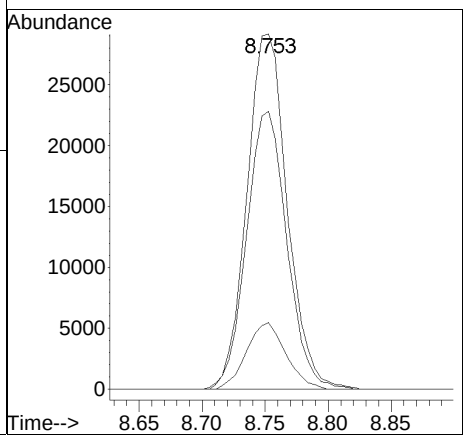


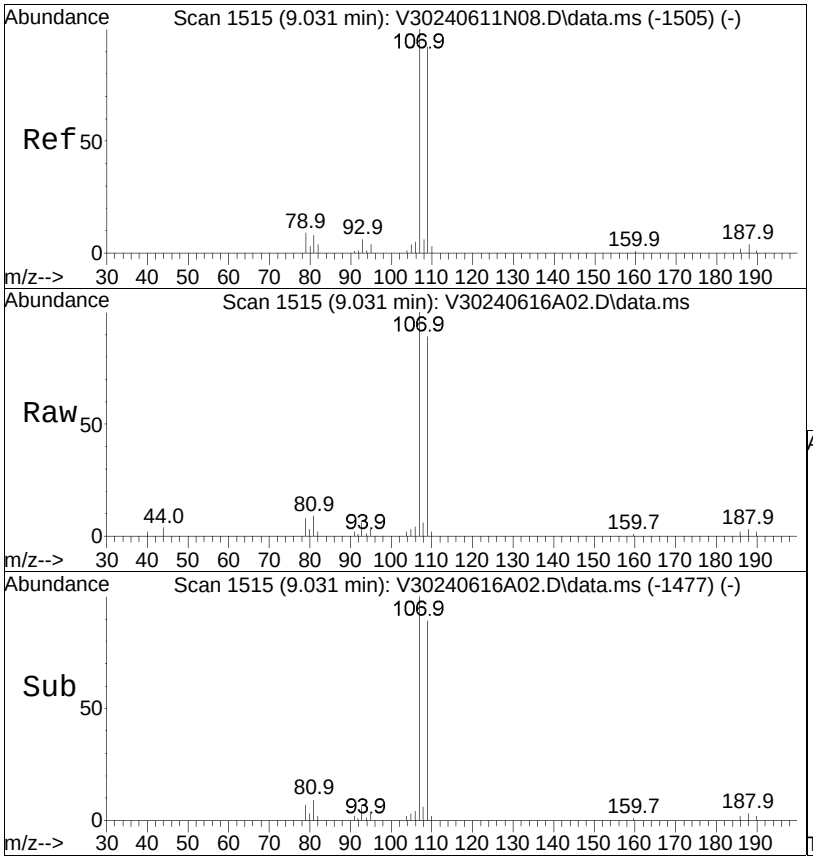


#73
Chlorodibromomethane
Concen: 9.21 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:129 Resp: 65061

Ion	Ratio	Lower	Upper
129	100		
81	18.4	14.6	22.0
127	78.0	62.6	93.8

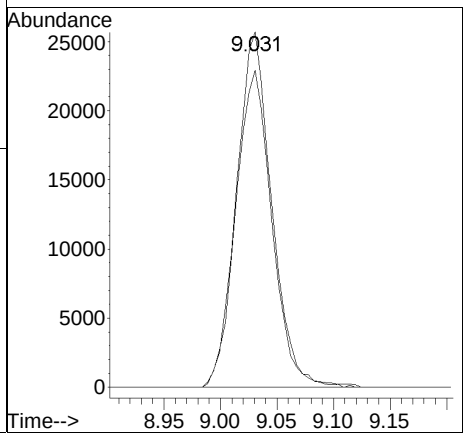


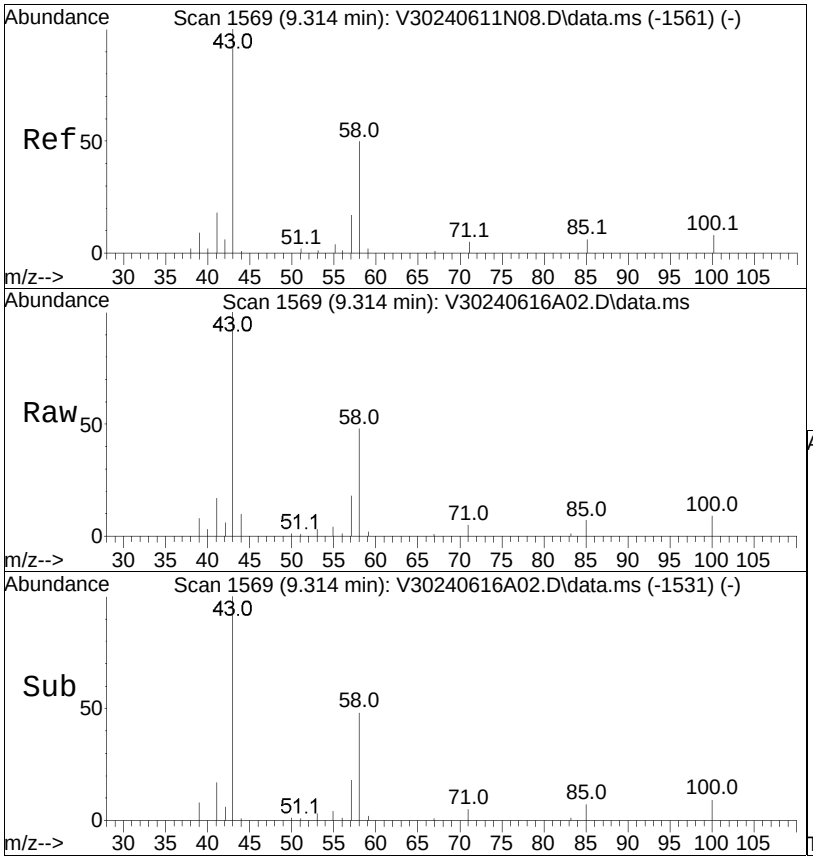


#75
1,2-Dibromoethane
Concen: 9.56 ug/L
RT: 9.031 min Scan# 1515
Delta R.T. 0.001 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:107 Resp: 56035

Ion	Ratio	Lower	Upper
107	100		
109	91.2	75.0	112.4

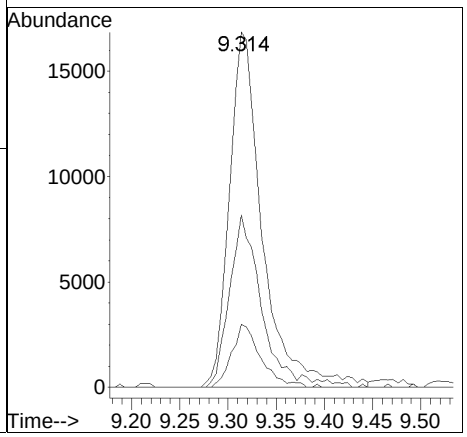


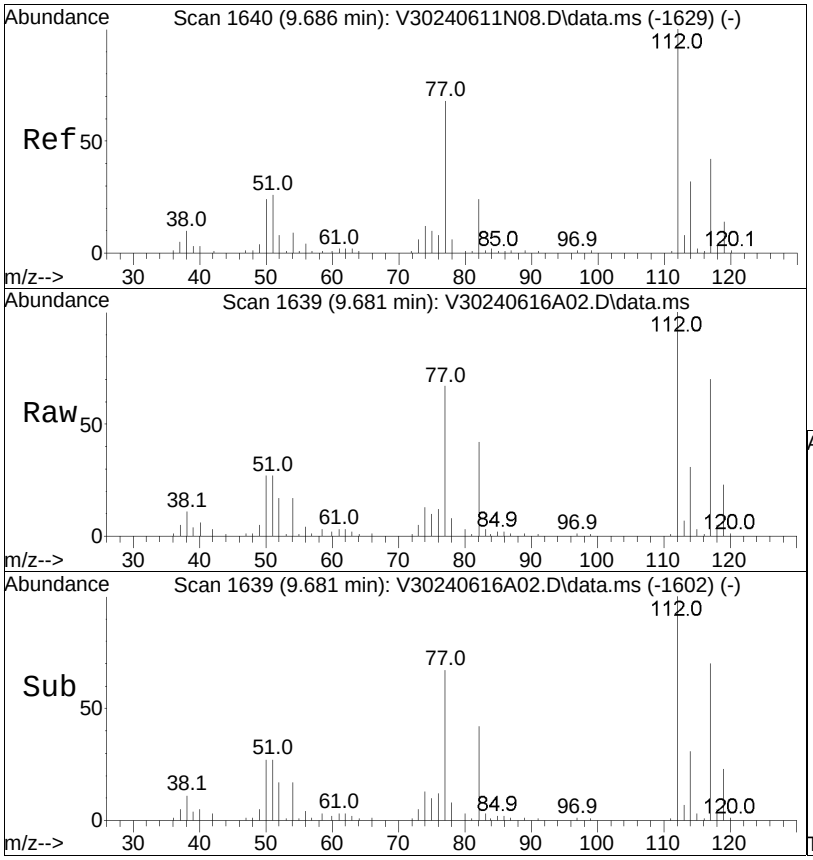


#77
2-Hexanone
Concen: 10.76 ug/L
RT: 9.314 min Scan# 1569
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 43 Resp: 40346

Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.6	58.0
57	15.7	14.1	21.1

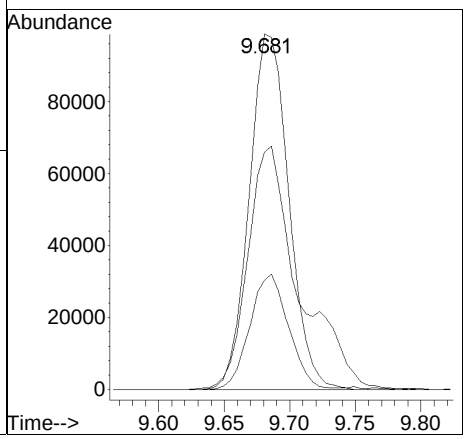


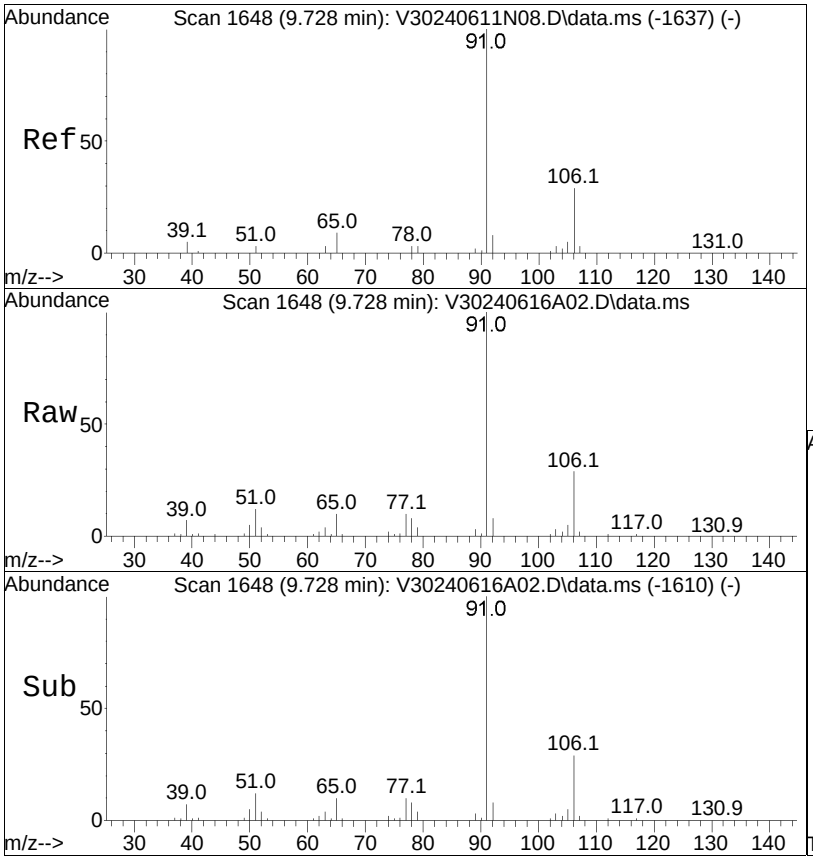


#78
Chlorobenzene
Concen: 9.72 ug/L
RT: 9.681 min Scan# 1639
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:112 Resp: 207663

Ion	Ratio	Lower	Upper
112	100		
77	88.0	54.8	82.2#
114	31.7	25.4	38.0

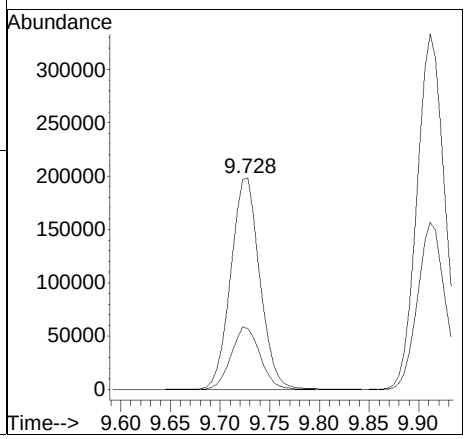


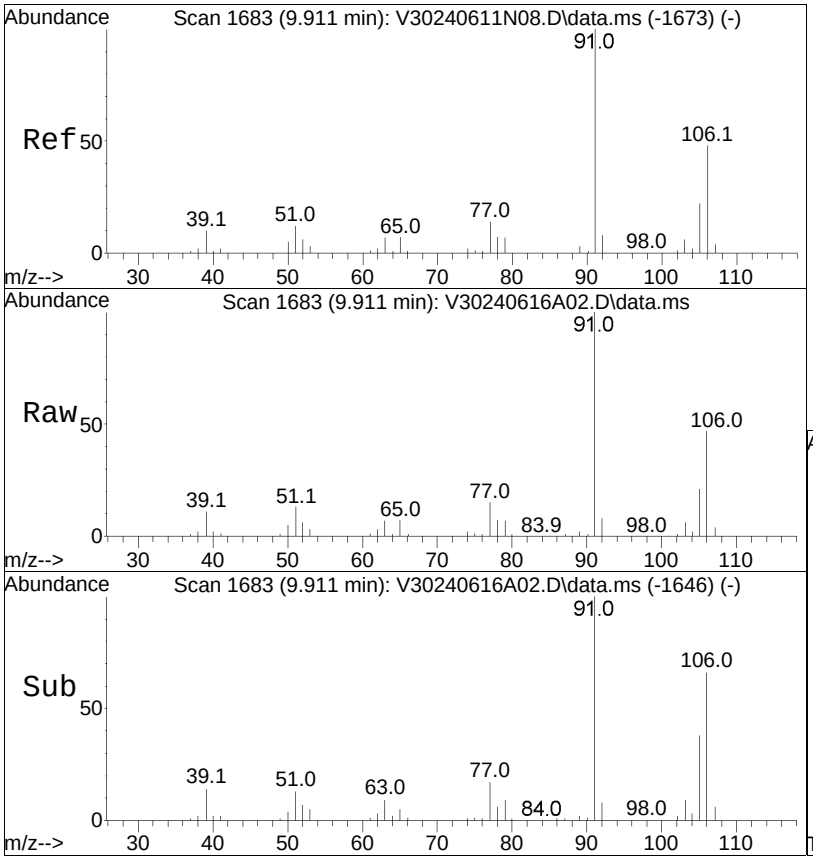


#79
Ethylbenzene
Concen: 10.37 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 91 Resp: 404124

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2

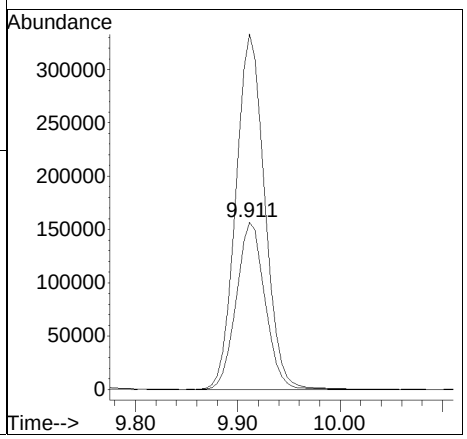


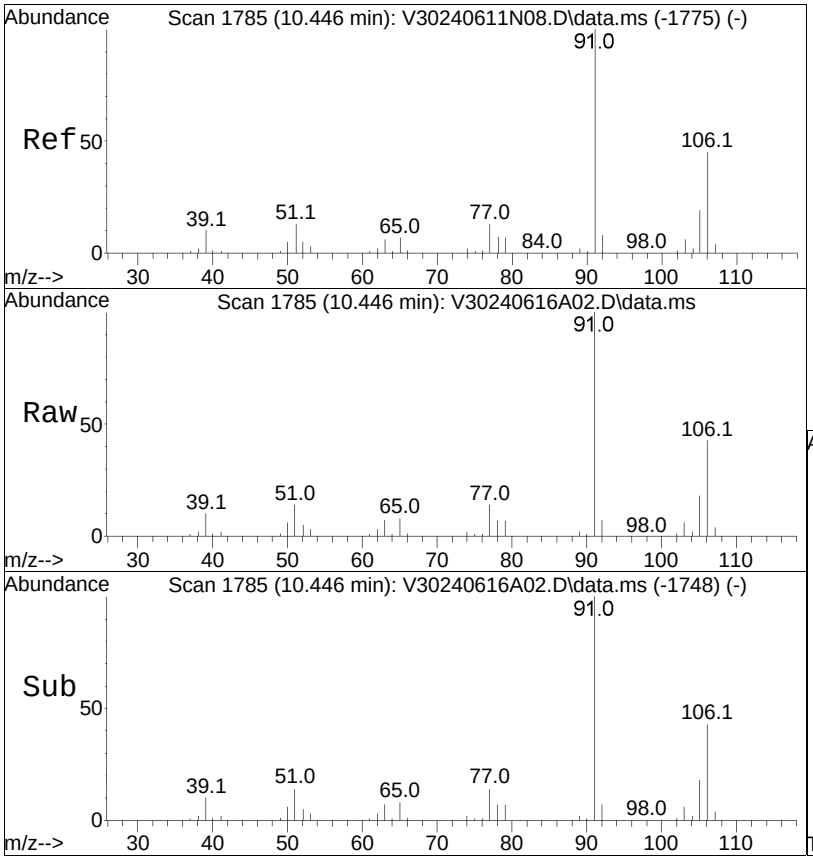


#81
p/m Xylene
Concen: 20.54 ug/L
RT: 9.911 min Scan# 1683
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:106 Resp: 305024

Ion	Ratio	Lower	Upper
106	100		
91	214.2	171.4	257.2

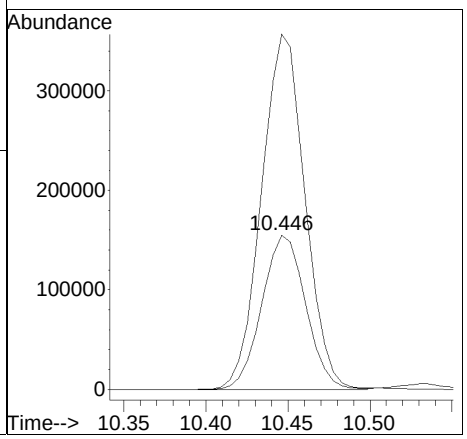


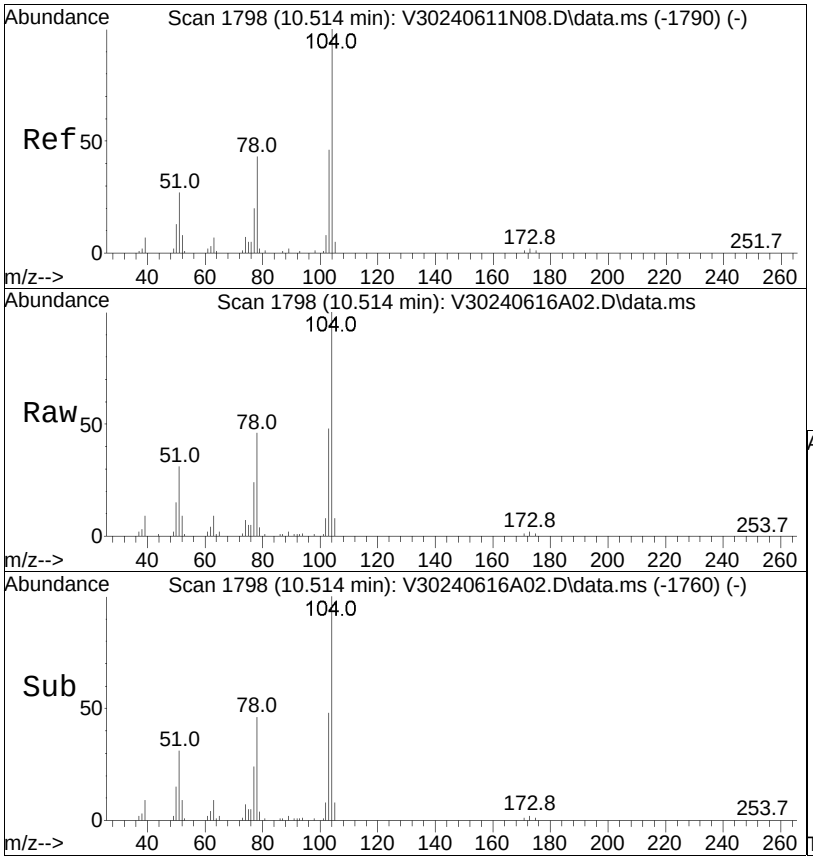


#82
o Xylene
Concen: 20.14 ug/L
RT: 10.446 min Scan# 1785
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:106 Resp: 287403

Ion	Ratio	Lower	Upper
106	100		
91	228.7	179.2	268.8

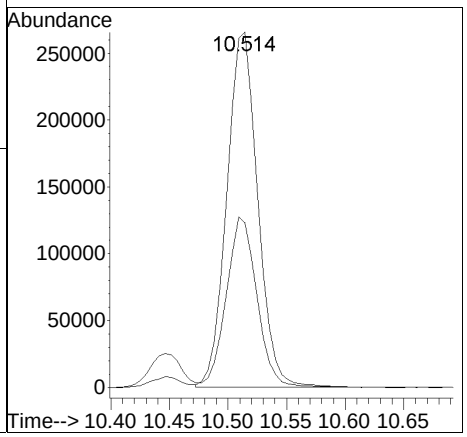


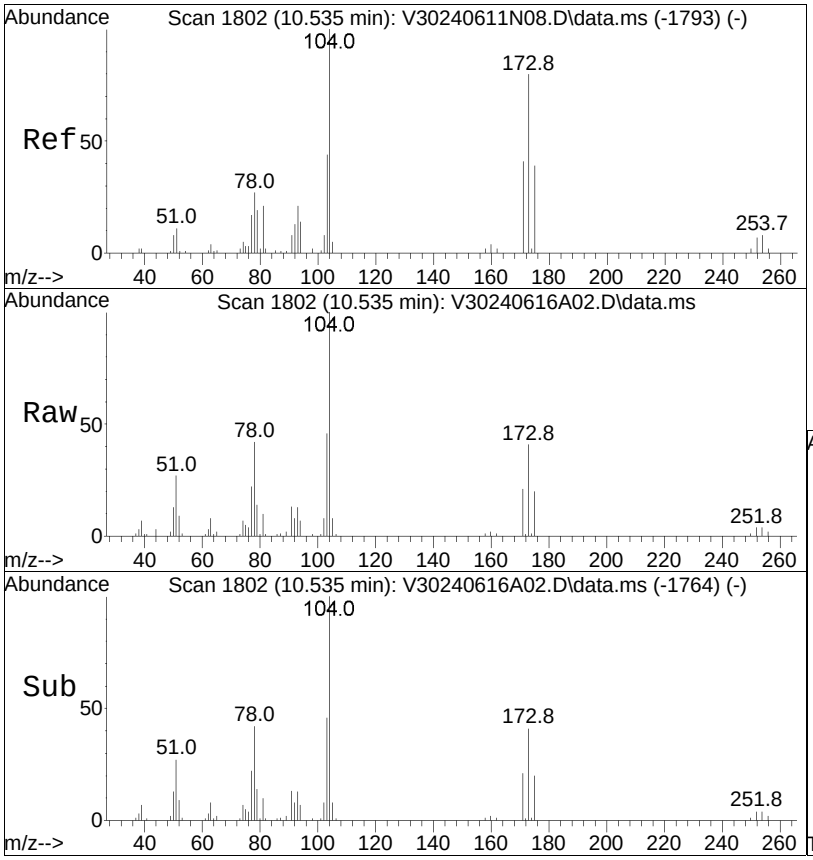


#83
Styrene
Concen: 20.63 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:104 Resp: 487494

Ion	Ratio	Lower	Upper
104	100		
78	47.7	38.1	57.1

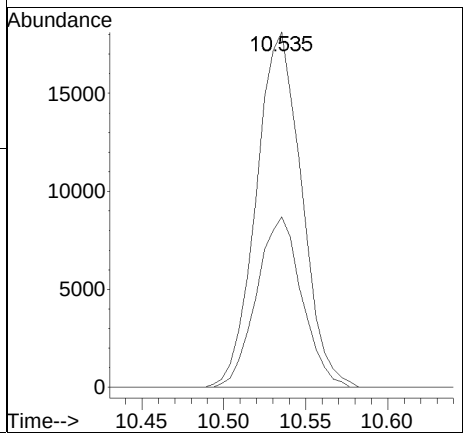


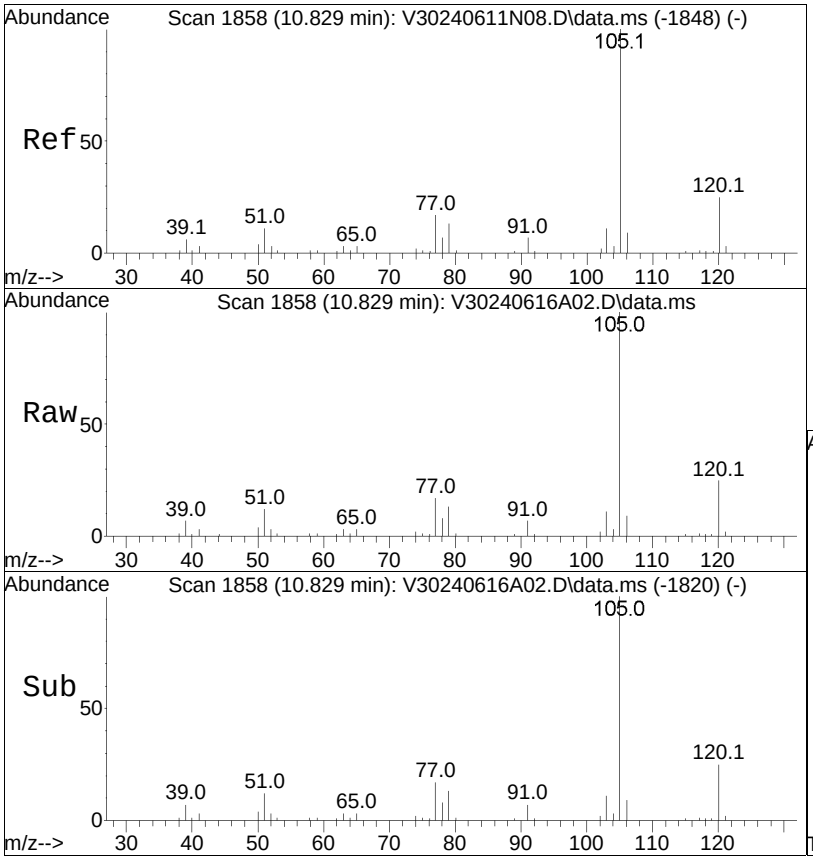


#85
Bromoform
Concen: 9.04 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:173 Resp: 34947

Ion	Ratio	Lower	Upper
173	100		
175	47.9	37.8	56.6

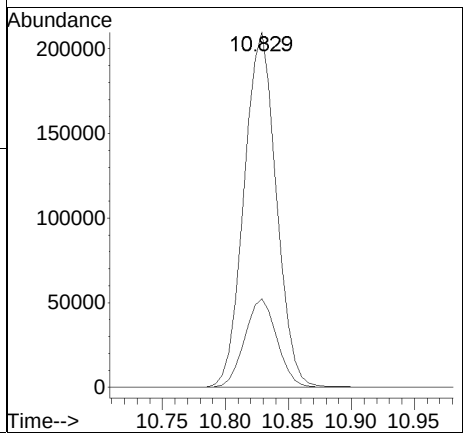


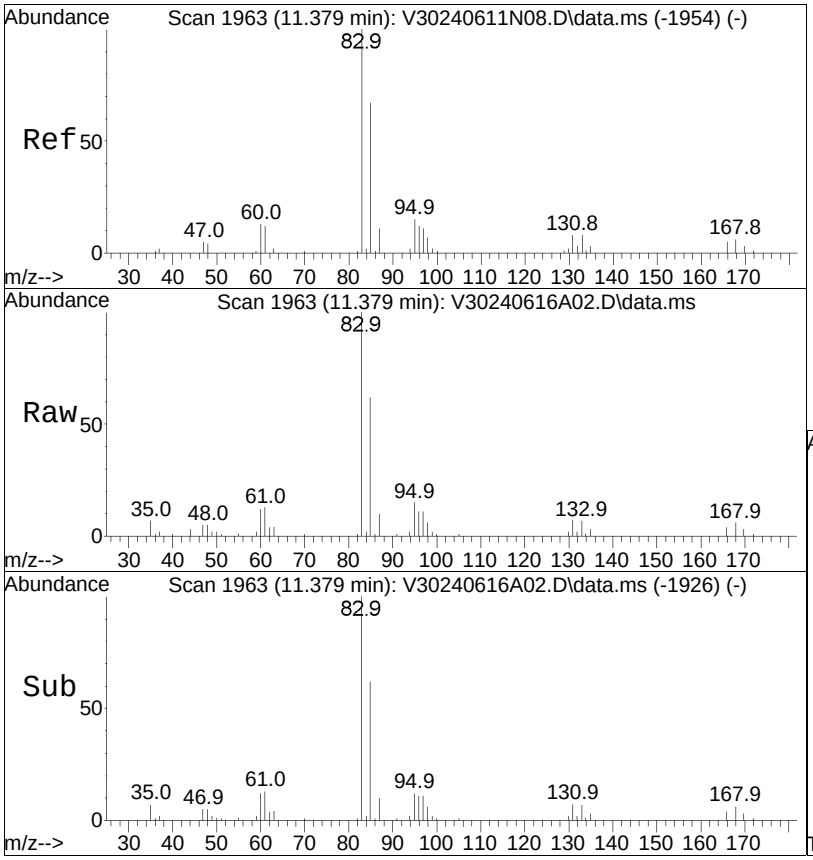


#87
Isopropylbenzene
Concen: 10.51 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:105 Resp: 373653

Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.0	30.0

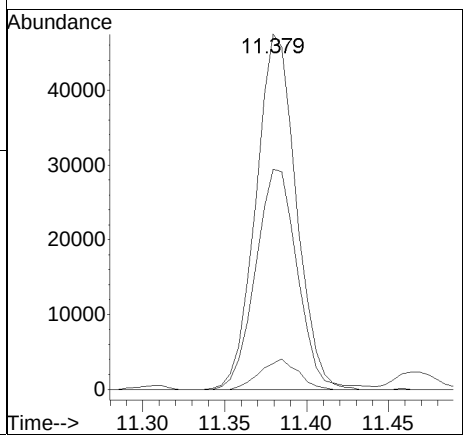


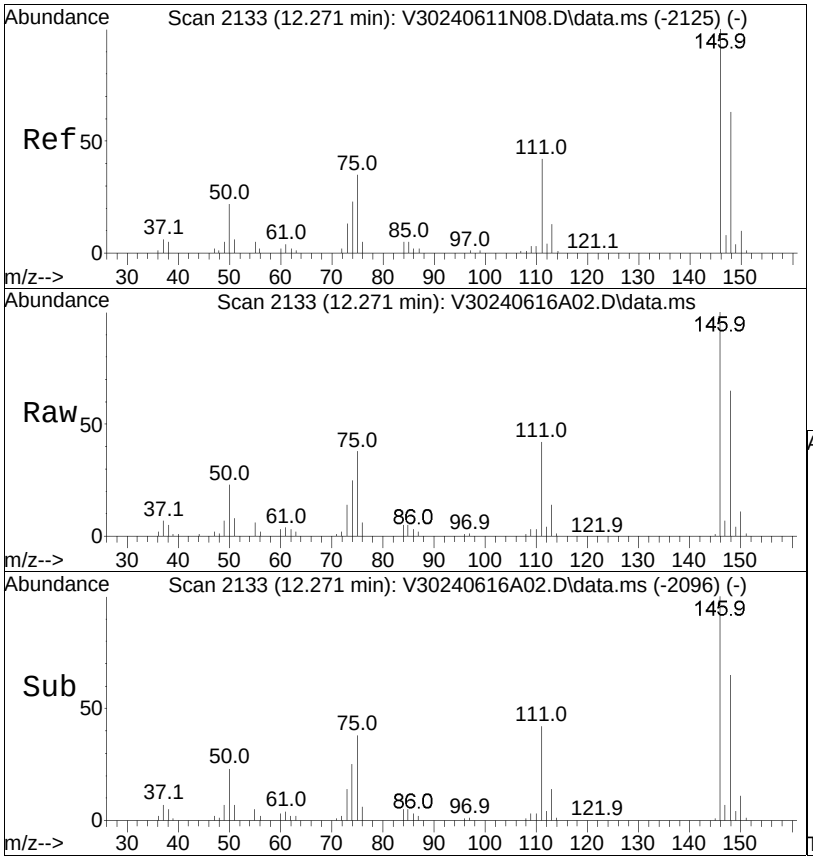


#92
1,1,2,2-Tetrachloroethane
Concen: 10.21 ug/L
RT: 11.379 min Scan# 1963
Delta R.T. -0.006 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion: 83 Resp: 80973

Ion	Ratio	Lower	Upper
83	100		
131	8.1	6.6	10.0
85	64.7	51.8	77.6

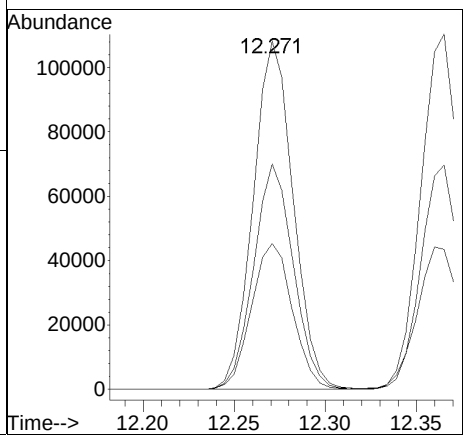


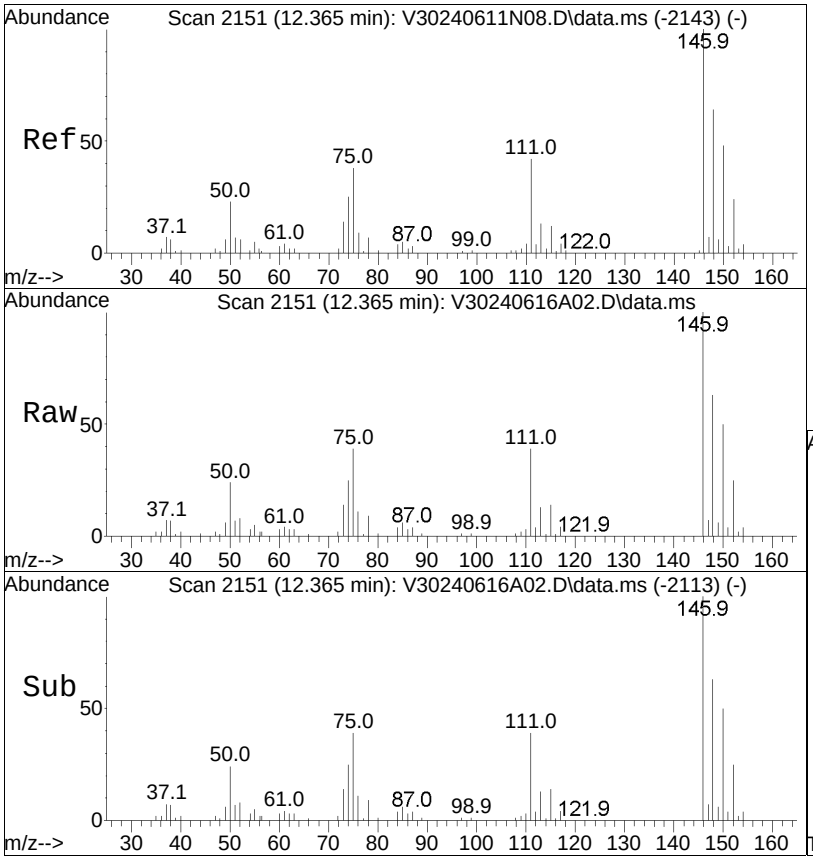


#105
1,3-Dichlorobenzene
Concen: 9.65 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:146 Resp: 165544

Ion	Ratio	Lower	Upper
146	100		
111	42.9	28.0	58.1
148	64.3	40.8	84.6

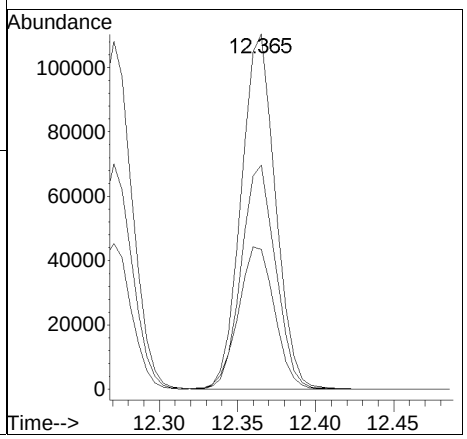


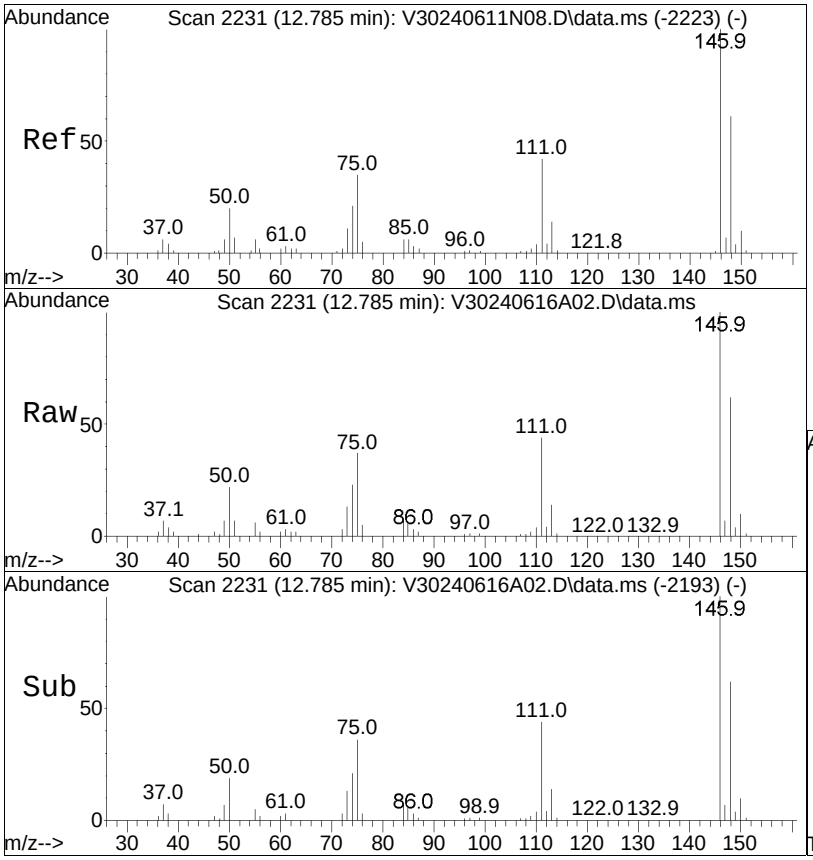


#106
1,4-Dichlorobenzene
Concen: 9.59 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:146 Resp: 169141

Ion	Ratio	Lower	Upper
146	100		
111	42.8	33.7	50.5
148	63.4	50.8	76.2

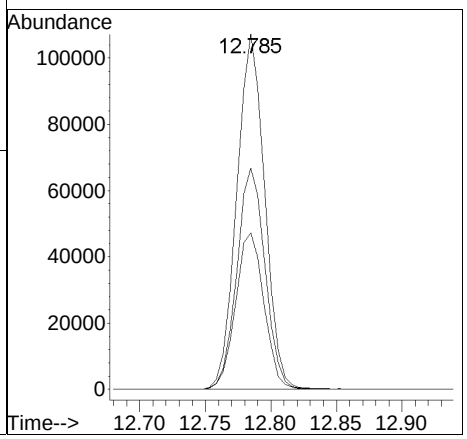


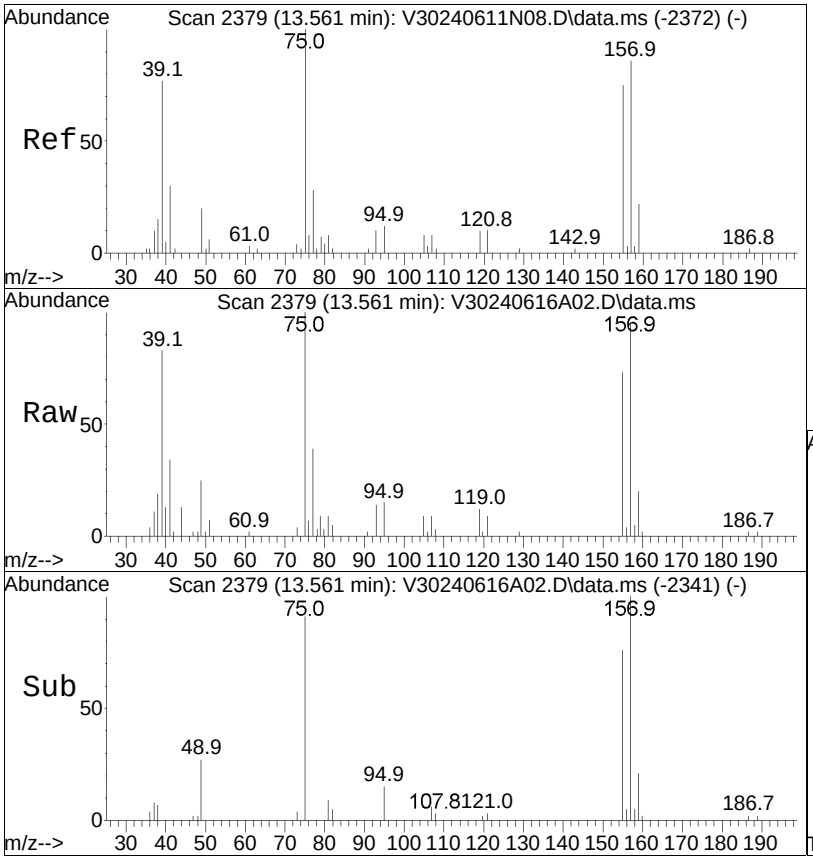


#109
1,2-Dichlorobenzene
Concen: 9.71 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:146 Resp: 158963

Ion	Ratio	Lower	Upper
146	100		
111	44.9	29.5	61.3
148	62.8	41.3	85.9

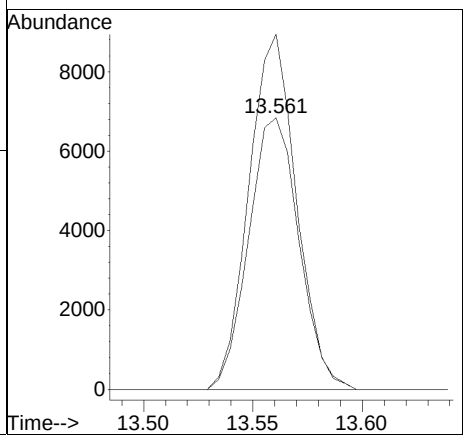


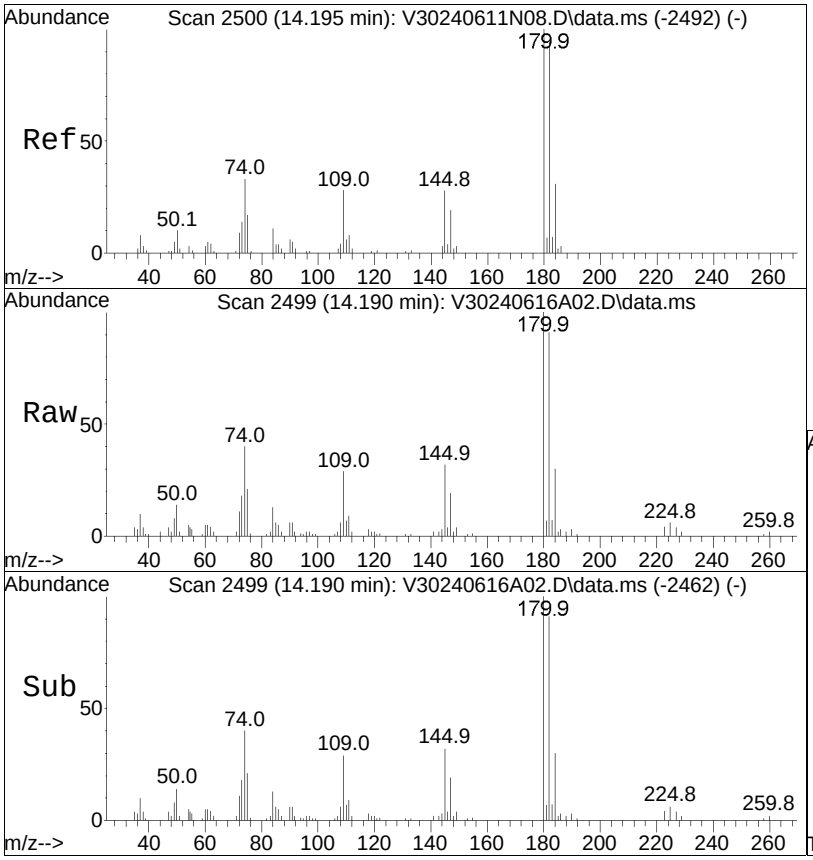


#111
1,2-Dibromo-3-chloropropane
Concen: 10.13 ug/L
RT: 13.561 min Scan# 2379
Delta R.T. 0.001 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:155 Resp: 10954

Ion	Ratio	Lower	Upper
155	100		
157	123.6	105.1	157.7

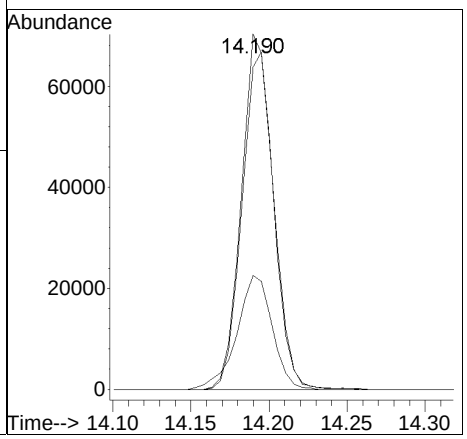


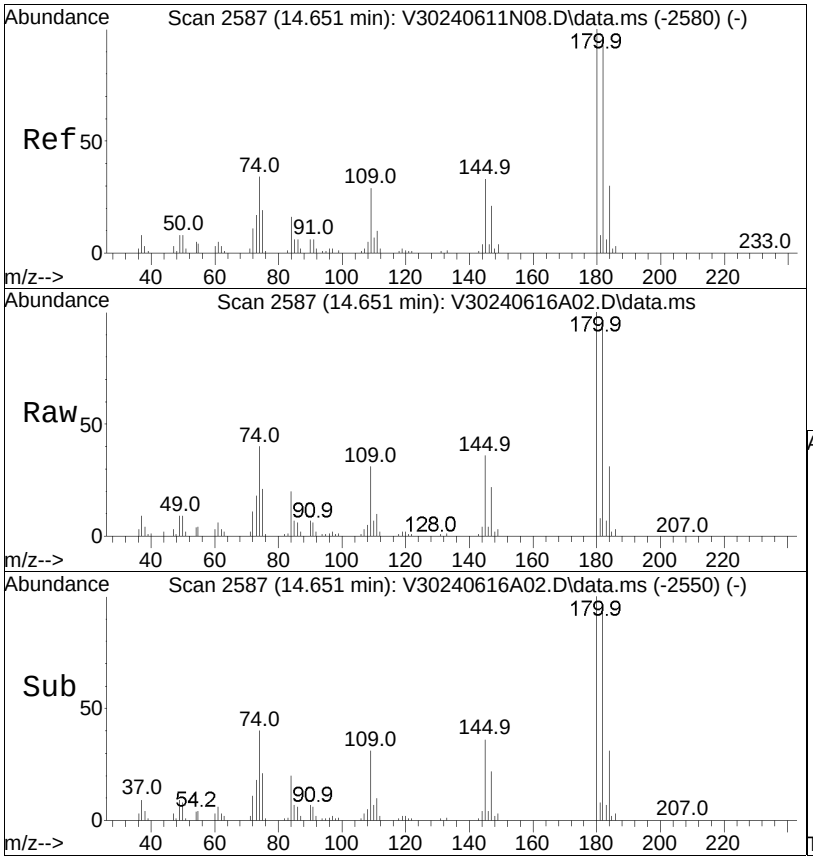


#114
1,2,4-Trichlorobenzene
Concen: 9.49 ug/L
RT: 14.190 min Scan# 2499
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:180 Resp: 99938

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.7	113.5
145	35.4	27.4	41.2

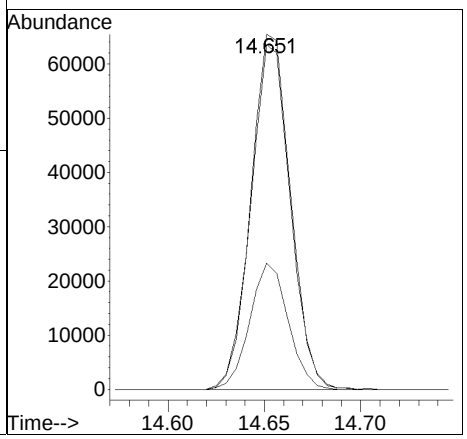




#116
1,2,3-Trichlorobenzene
Concen: 9.61 ug/L
RT: 14.651 min Scan# 2587
Delta R.T. -0.005 min
Lab File: V30240616A02.D
Acq: 16 Jun 2024 07:41 am

Tgt Ion:180 Resp: 93691

Ion	Ratio	Lower	Upper
180	100		
182	96.0	74.9	112.3
145	34.4	26.0	39.0



Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A26.D
Acq On : 16 Jun 2024 04:30 pm
Operator : VOA130:MJV
Sample : WG1935824-6,31,10,10,,a1
Misc : WG1935824,ICAL21186
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 18 09:32:01 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	386727	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 85.43%			
63) Chlorobenzene-d5	9.665	117	300331	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 90.15%			
84) 1,4-Dichlorobenzene-d4	12.349	152	166831	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 91.82%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	114889	10.555	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.55%			
47) 1,2-Dichloroethane-d4	5.822	65	153030	11.673	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.73%			
64) Toluene-d8	7.814	98	398360	9.853	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.53%			
88) 4-Bromofluorobenzene	11.143	95	162525	10.470	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	90725	11.017	ug/L	97
3) Chloromethane	1.868	50	120239	11.614	ug/L	97
4) Vinyl chloride	1.947	62	112271	12.032	ug/L	100
5) Bromomethane	2.267	94	44726	9.708	ug/L	100
6) Chloroethane	2.377	64	56332	9.546	ug/L	100
7) Trichlorofluoromethane	2.529	101	124716	11.906	ug/L	99
10) 1,1-Dichloroethene	3.027	96	71273	11.100	ug/L	99
11) Carbon disulfide	3.053	76	227869	10.841	ug/L	100
12) Freon-113	3.064	101	66561	10.469	ug/L	97
15) Methylene chloride	3.588	84	91613	10.592	ug/L	99
17) Acetone	3.620	43	20645	12.026	ug/L	95
18) trans-1,2-Dichloroethene	3.745	96	73813	10.415	ug/L	99
19) Methyl acetate	3.745	43	41862	9.543	ug/L #	92
21) Methyl tert-butyl ether	3.840	73	142415	9.221	ug/L	95
25) 1,1-Dichloroethane	4.327	63	183673	11.574	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	84124	10.348	ug/L	97
33) Bromochloromethane	5.046	128	35818	10.141	ug/L	94
34) Cyclohexane	5.061	56	136011	10.477	ug/L	99
35) Chloroform	5.119	83	161059	11.365	ug/L	96
37) Carbon tetrachloride	5.261	117	97825	11.490	ug/L	97

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A26.D
Acq On : 16 Jun 2024 04:30 pm
Operator : VOA130:MJV
Sample : WG1935824-6,31,10,10,,a1
Misc : WG1935824,ICAL21186
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 18 09:32:01 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.324	97	122386	11.374	ug/L		99
42) 2-Butanone	5.407	43	23397M3	9.803	ug/L		
45) Benzene	5.691	78	300129	10.500	ug/L		99
48) 1,2-Dichloroethane	5.890	62	109453	11.010	ug/L		99
51) Methyl cyclohexane	6.288	83	88959	8.526	ug/L		99
52) Trichloroethene	6.294	95	67080	9.754	ug/L		99
55) 1,2-Dichloropropane	6.839	63	81151	10.153	ug/L		97
58) Bromodichloromethane	6.907	83	102420	10.153	ug/L		99
62) cis-1,3-Dichloropropene	7.604	75	96093	9.177	ug/L		90
65) Toluene	7.872	92	181063	9.893	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	15273	8.602	ug/L		94
67) Tetrachloroethene	8.328	166	55708	9.129	ug/L		96
69) trans-1,3-Dichloropropene	8.354	75	84239	9.079	ug/L		89
72) 1,1,2-Trichloroethane	8.538	83	44851	9.306	ug/L		96
73) Chlorodibromomethane	8.753	129	52627	8.411	ug/L		99
75) 1,2-Dibromoethane	9.030	107	46170	8.899	ug/L		99
77) 2-Hexanone	9.314	43	29381	8.848	ug/L		96
78) Chlorobenzene	9.686	112	178931	9.457	ug/L	#	82
79) Ethylbenzene	9.728	91	351829	10.198	ug/L		99
81) p/m Xylene	9.911	106	268368	20.409	ug/L		100
82) o Xylene	10.451	106	253343	20.049	ug/L		99
83) Styrene	10.514	104	419123	20.030	ug/L		100
85) Bromoform	10.535	173	28131	8.070	ug/L		99
87) Isopropylbenzene	10.829	105	319363	9.963	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.379	83	68293	9.549	ug/L		98
105) 1,3-Dichlorobenzene	12.271	146	140930	9.112	ug/L		99
106) 1,4-Dichlorobenzene	12.365	146	142334	8.953	ug/L		98
109) 1,2-Dichlorobenzene	12.785	146	135915	9.206	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.555	155	8243	8.450	ug/L		98
114) 1,2,4-Trichlorobenzene	14.195	180	80013	8.425	ug/L		99
116) 1,2,3-Trichlorobenzene	14.651	180	75834	8.622	ug/L		97

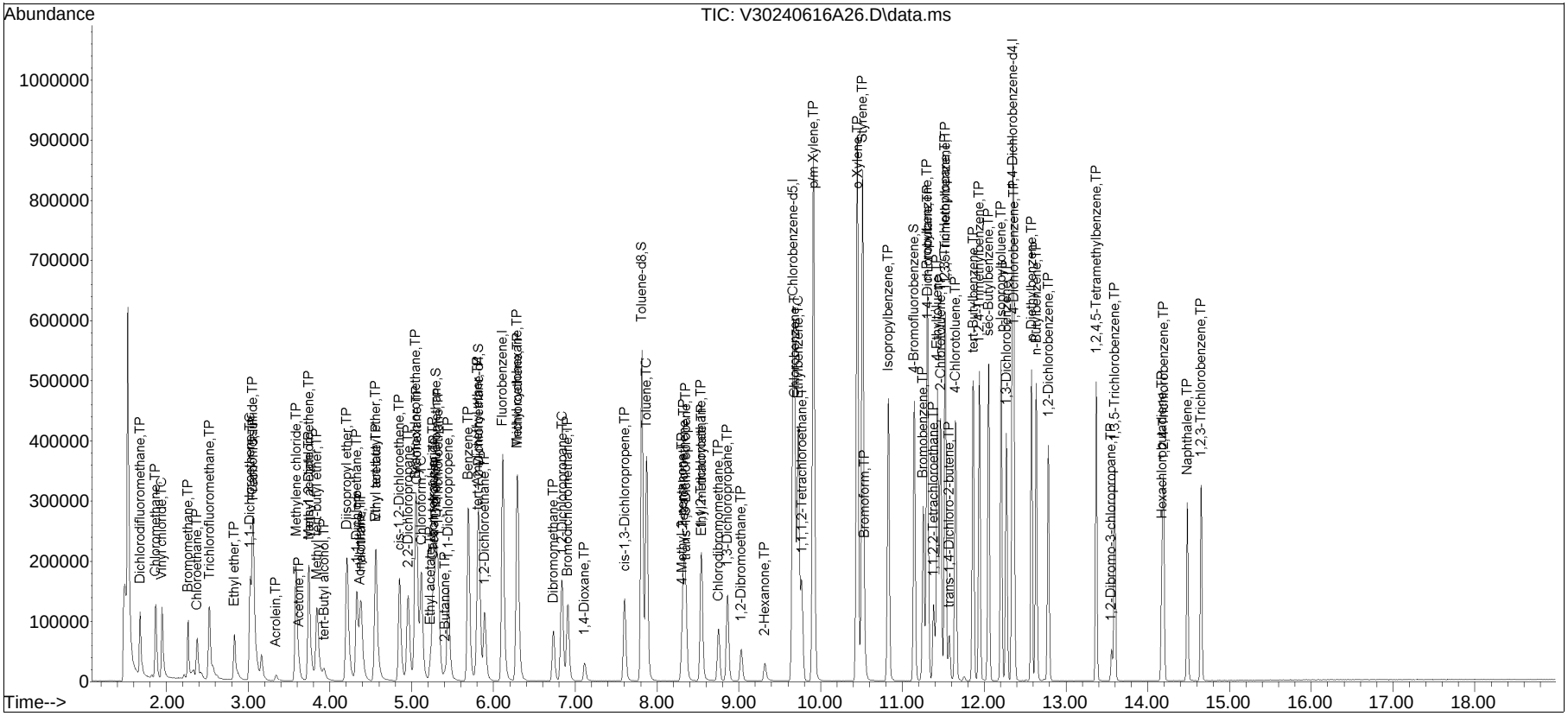
(#) = qualifier out of range (m) = manual integration (+) = signals summed

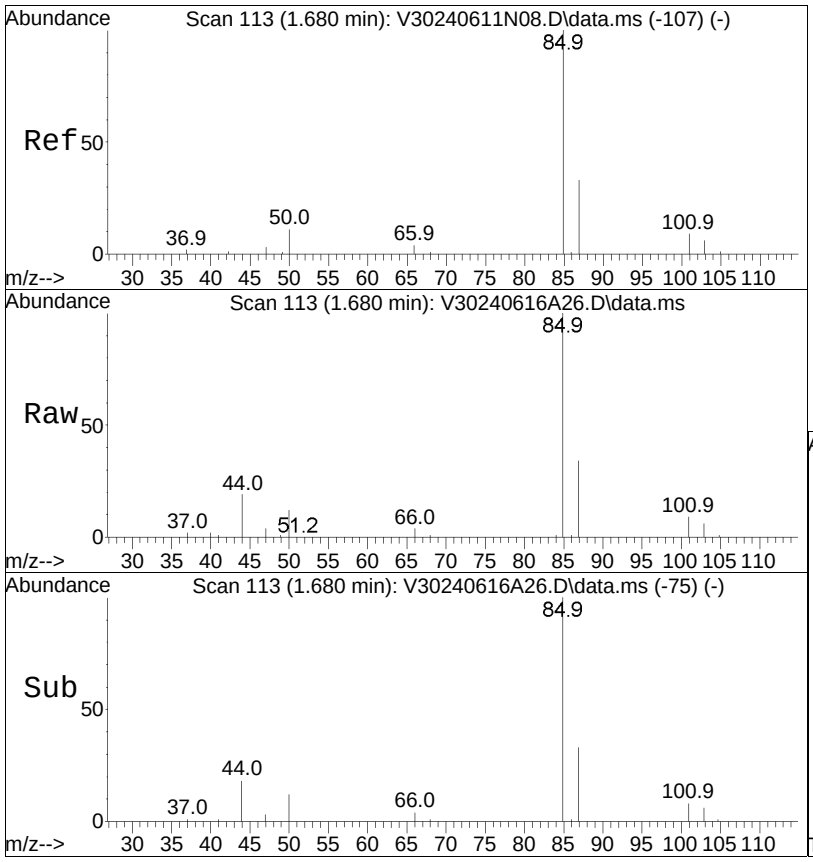
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A26.D
Acq On : 16 Jun 2024 04:30 pm
Operator : VOA130:MJV
Sample : WG1935824-6,31,10,10,,a1
Misc : WG1935824,ICAL21186
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 18 09:32:01 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

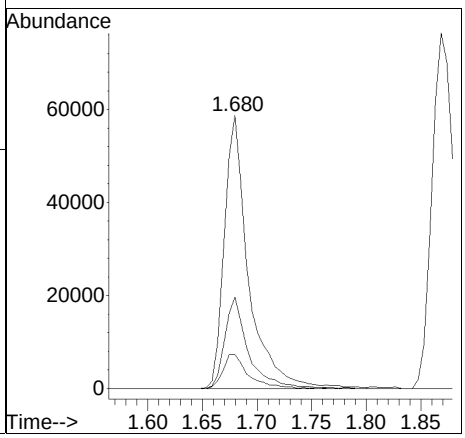


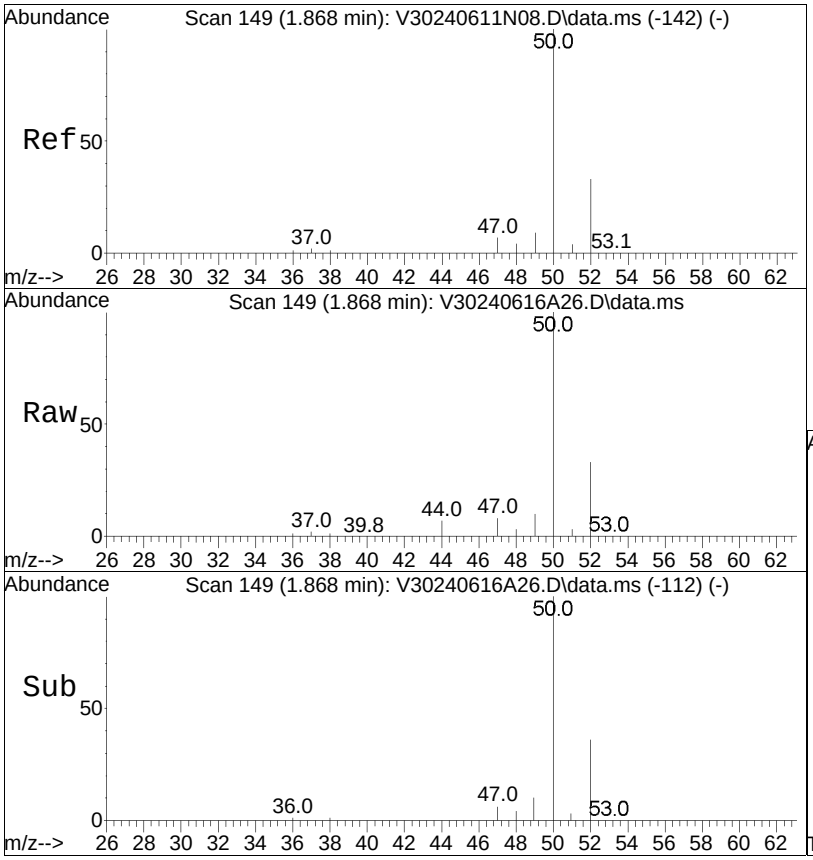


#2
Dichlorodifluoromethane
Concen: 11.02 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 85 Resp: 90725

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.2	42.0
50	12.9	10.1	20.9

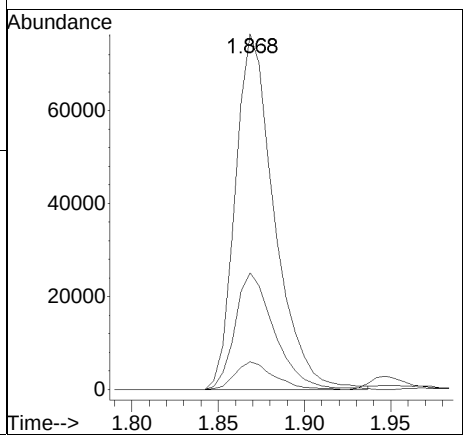


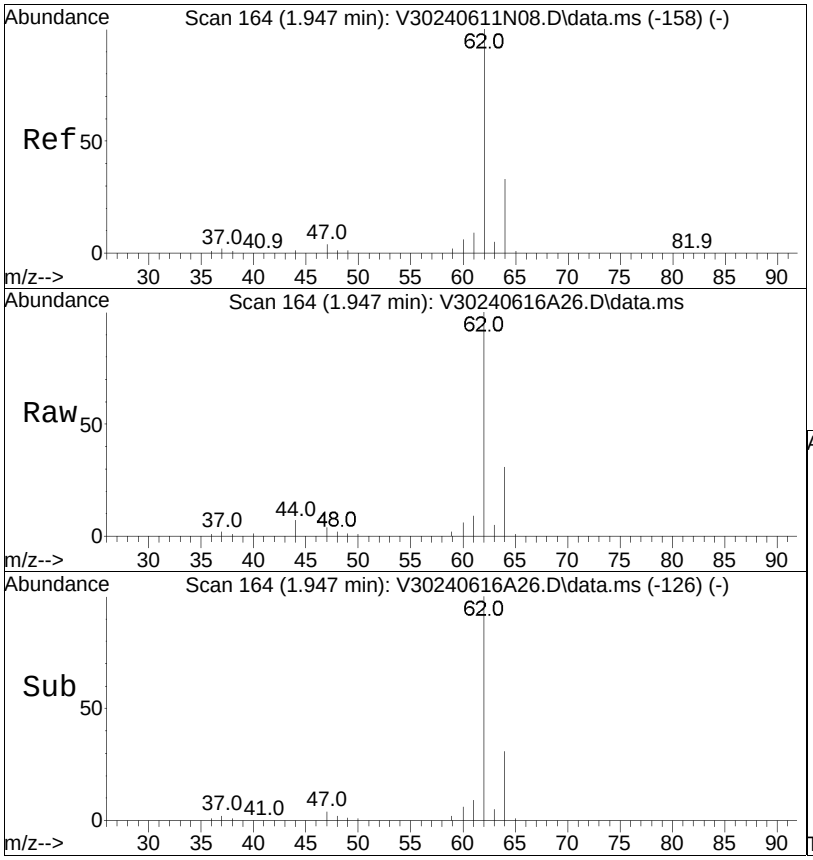


#3
Chloromethane
Concen: 11.61 ug/L
RT: 1.868 min Scan# 149
Delta R.T. -0.006 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 50 Resp: 120239

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.1	37.7
47	7.7	6.5	9.7

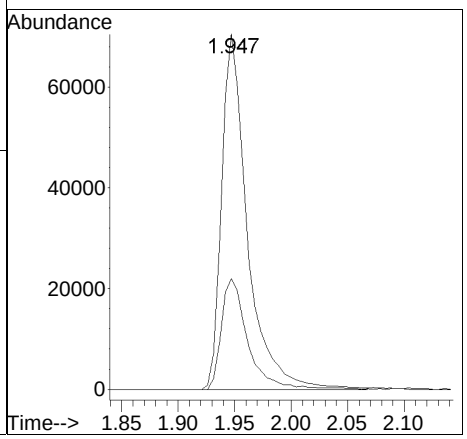


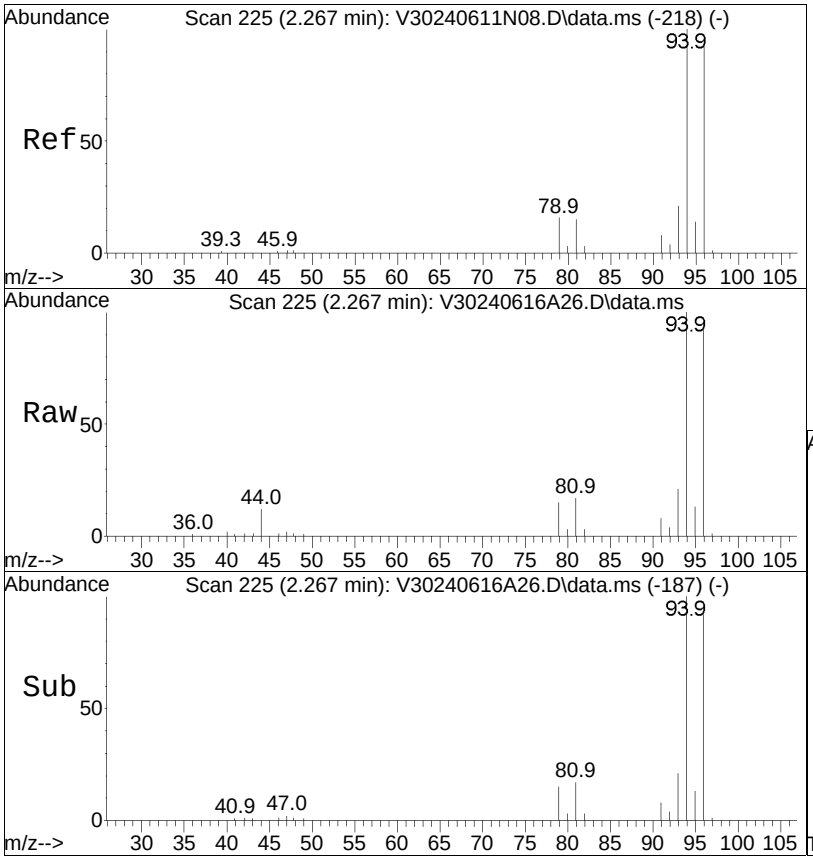


#4
Vinyl chloride
Concen: 12.03 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 62 Resp: 112271

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5

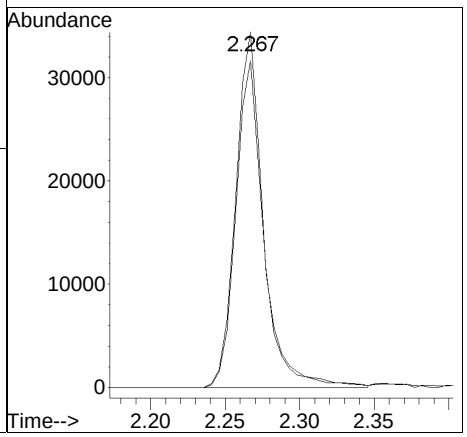


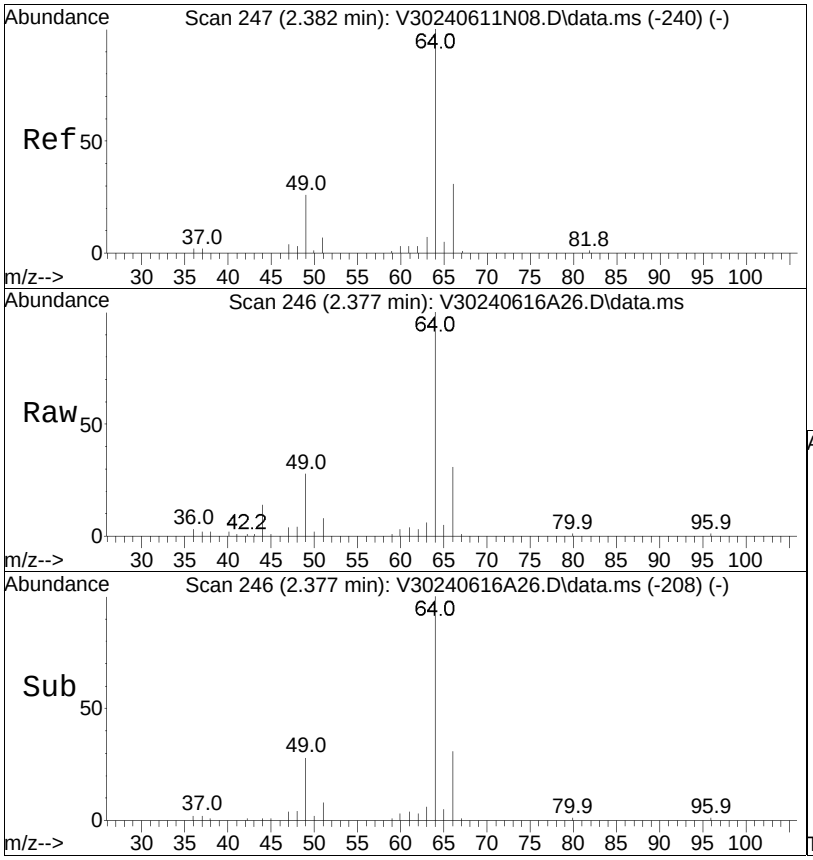


#5
Bromomethane
Concen: 9.71 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 94 Resp: 44726

Ion	Ratio	Lower	Upper
94	100		
96	92.0	73.7	110.5

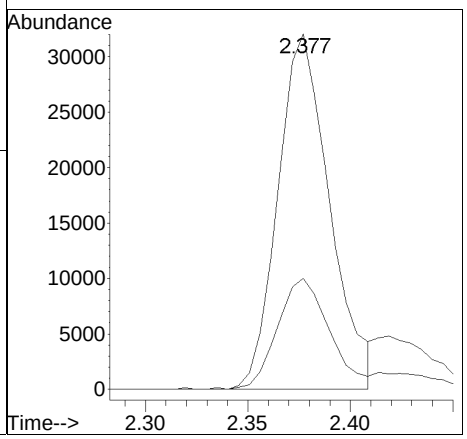


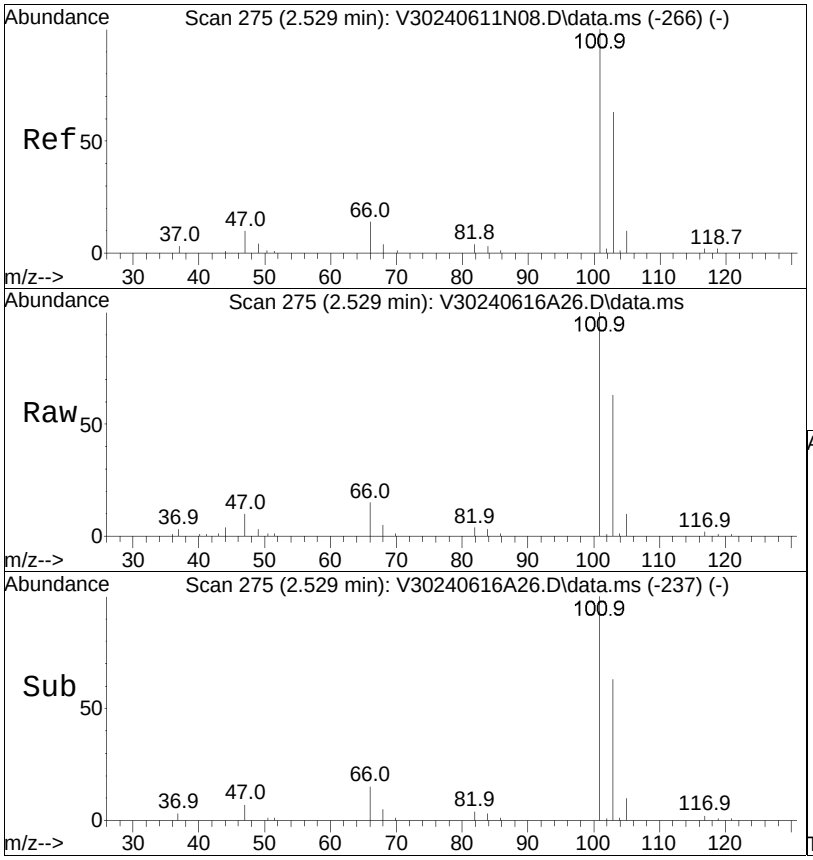


#6
Chloroethane
Concen: 9.55 ug/L
RT: 2.377 min Scan# 246
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 64 Resp: 56332

Ion	Ratio	Lower	Upper
64	100		
66	31.4	25.3	37.9

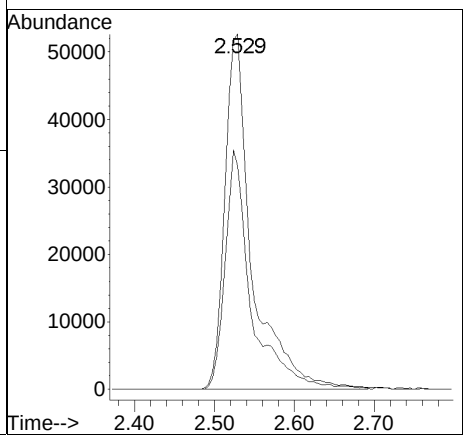


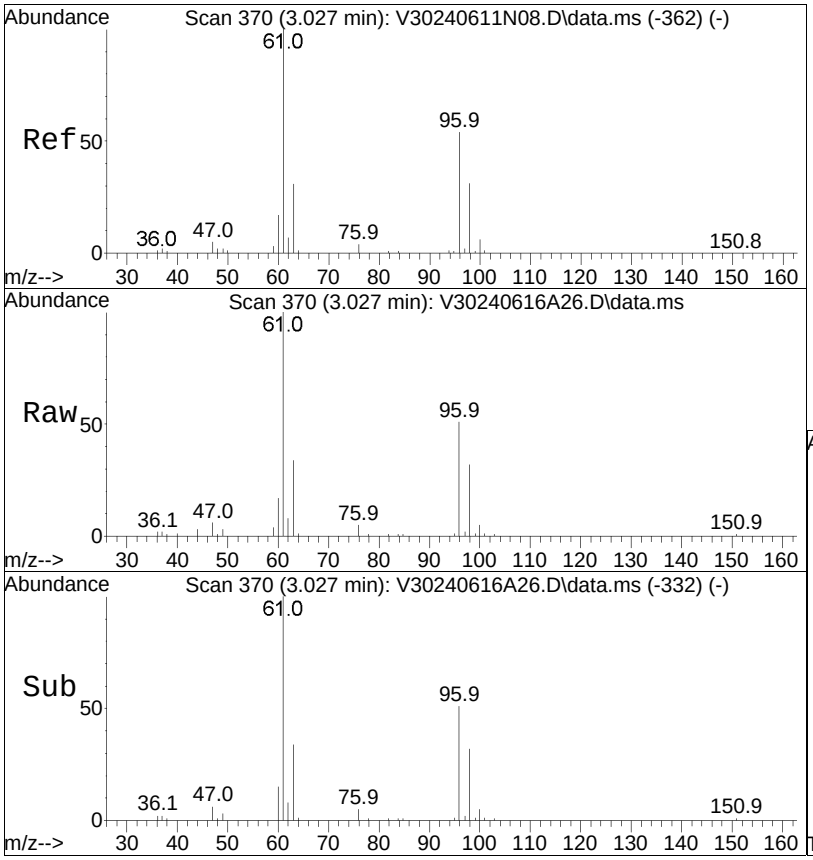


#7
Trichlorofluoromethane
Concen: 11.91 ug/L
RT: 2.529 min Scan# 275
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:101 Resp: 124716

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.0	76.4

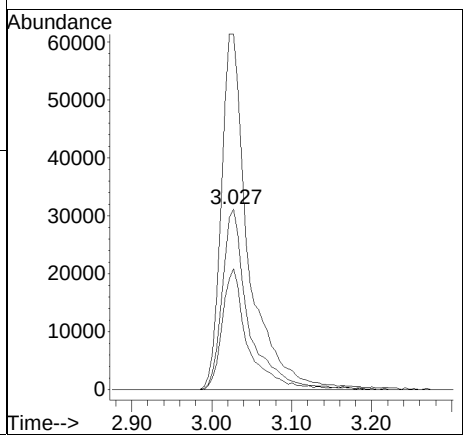


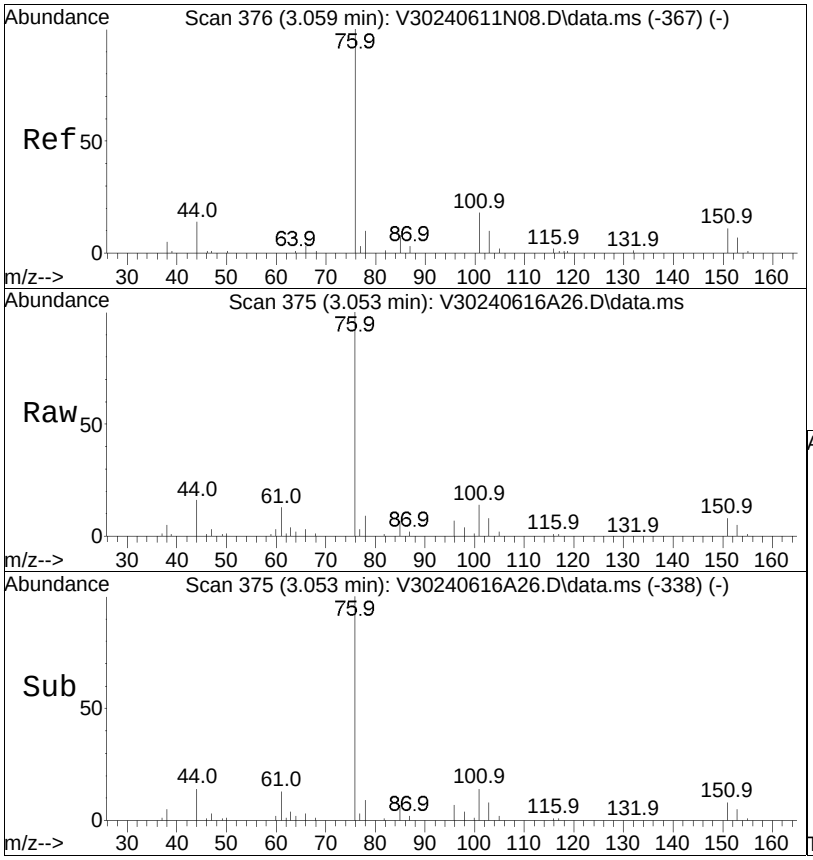


#10
1,1-Dichloroethene
Concen: 11.10 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 96 Resp: 71273

Ion	Ratio	Lower	Upper
96	100		
61	204.0	165.5	248.3
63	65.1	51.9	77.9

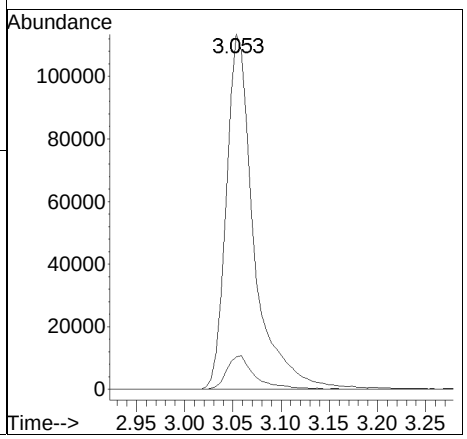


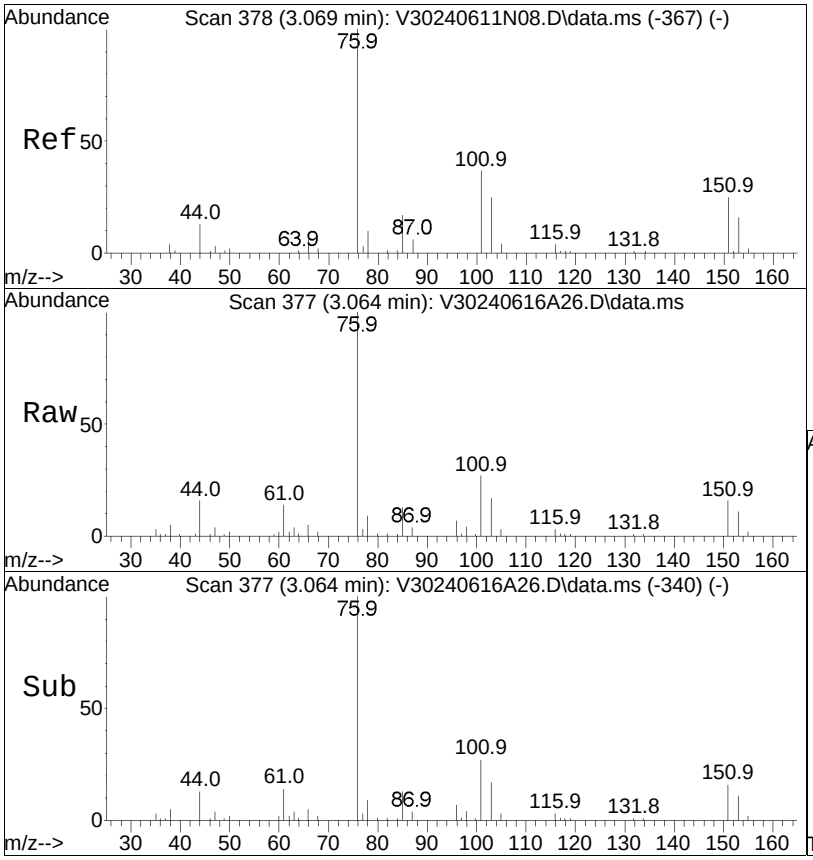


#11
Carbon disulfide
Concen: 10.84 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 76 Resp: 227869

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.4	13.4

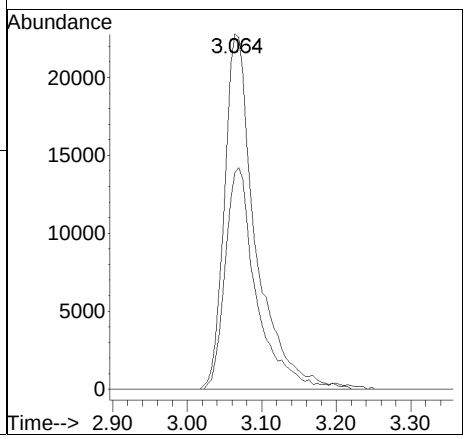


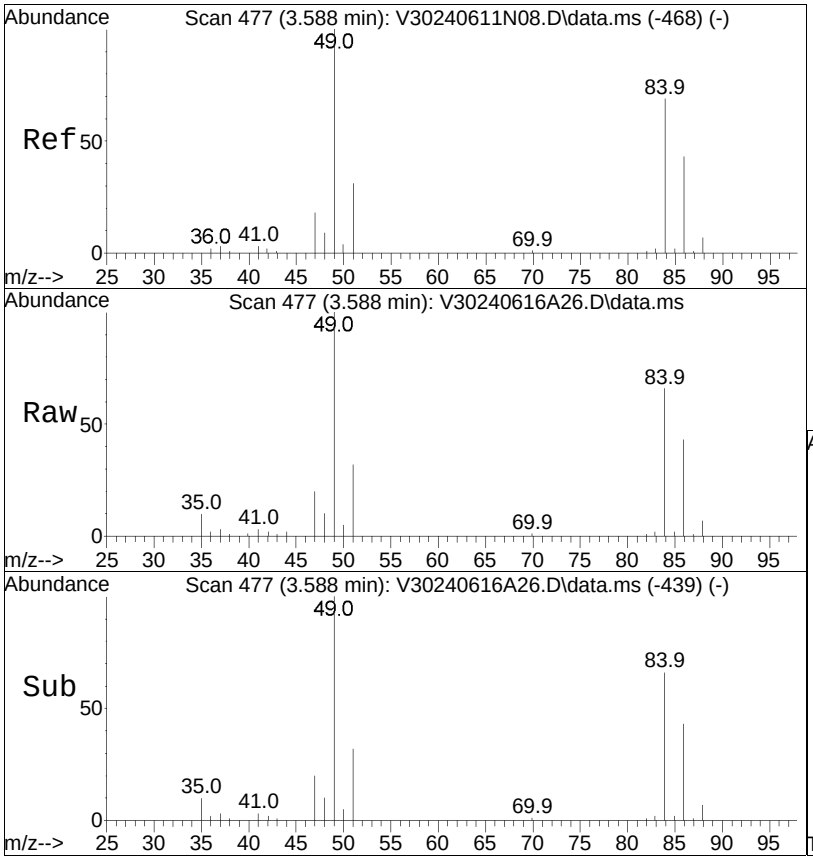


#12
Freon-113
Concen: 10.47 ug/L
RT: 3.064 min Scan# 377
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:101 Resp: 66561

Ion	Ratio	Lower	Upper
101	100		
151	62.2	51.9	77.9

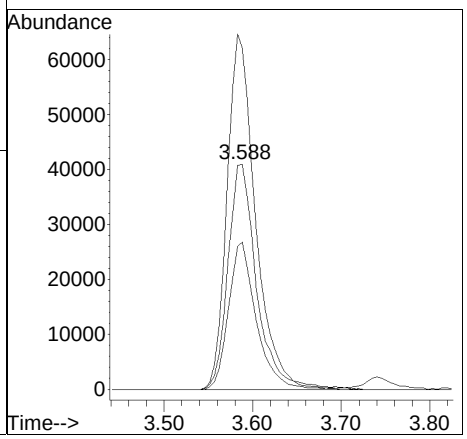


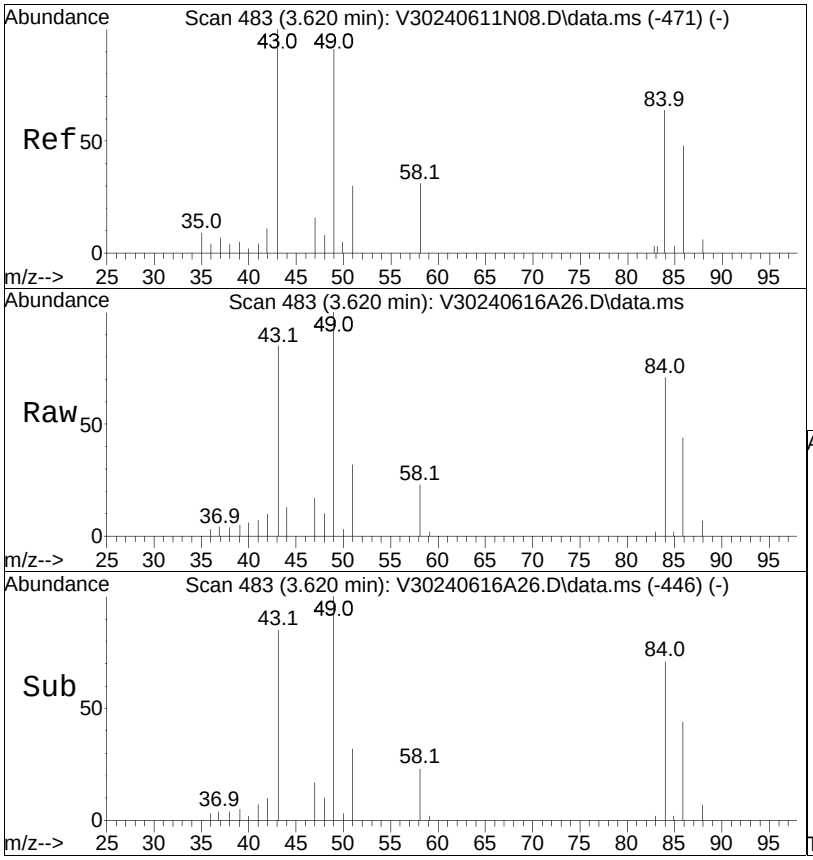


#15
Methylene chloride
Concen: 10.59 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 84 Resp: 91613

Ion	Ratio	Lower	Upper
84	100		
86	63.5	41.7	86.5
49	157.7	103.9	215.9

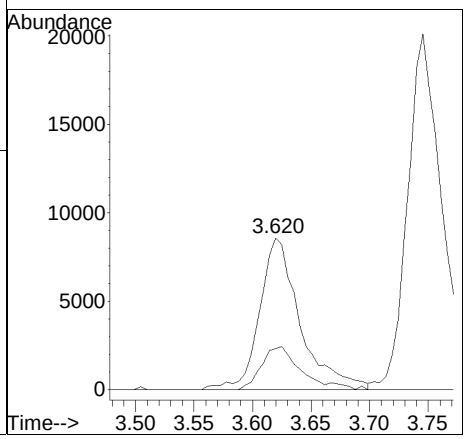


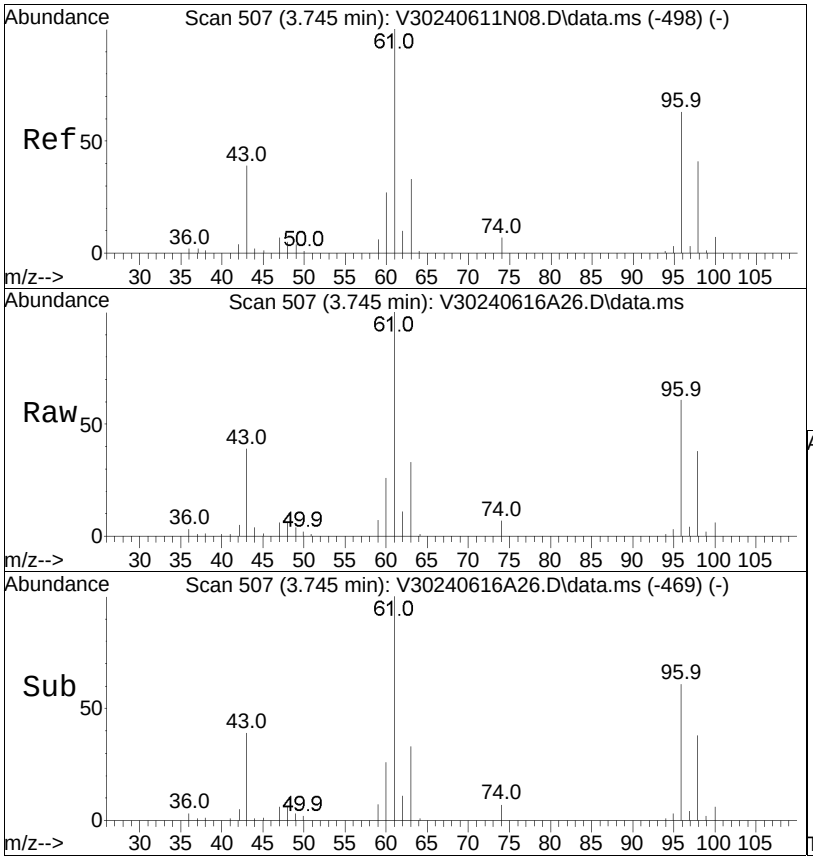


#17
Acetone
Concen: 12.03 ug/L
RT: 3.620 min Scan# 483
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 43 Resp: 20645

Ion	Ratio	Lower	Upper
43	100		
58	27.5	20.1	30.1

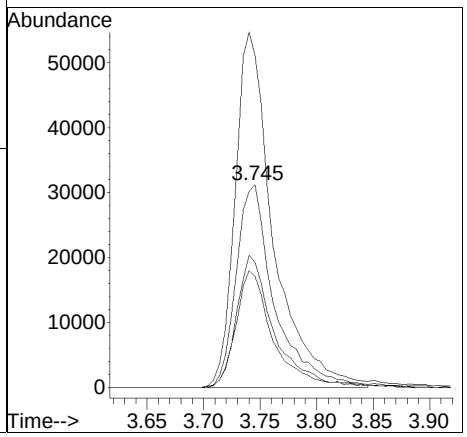


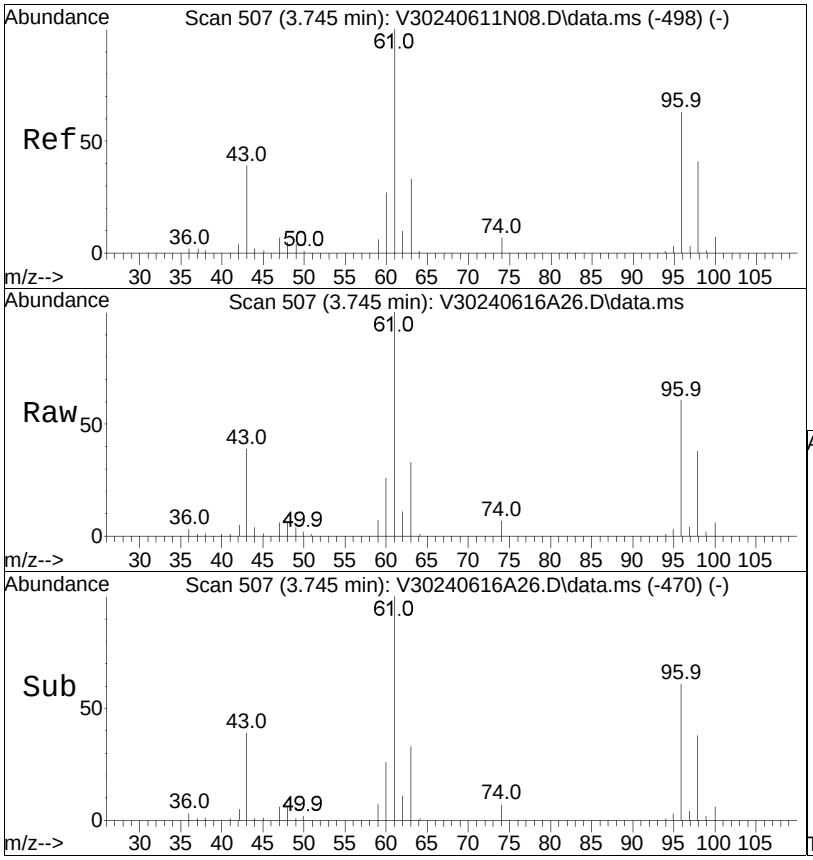


#18
trans-1,2-Dichloroethene
Concen: 10.41 ug/L
RT: 3.745 min Scan# 507
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 96 Resp: 73813

Ion	Ratio	Lower	Upper
96	100		
61	177.1	113.6	236.0
98	63.9	40.8	84.8
63	56.4	36.5	75.7

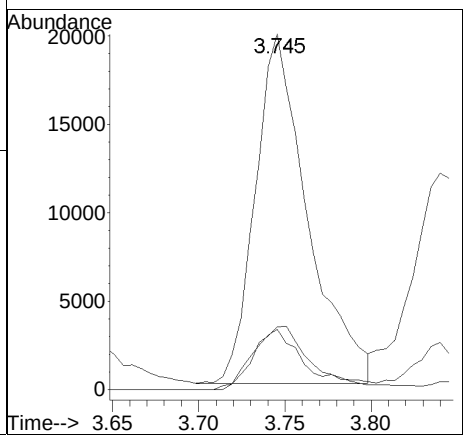


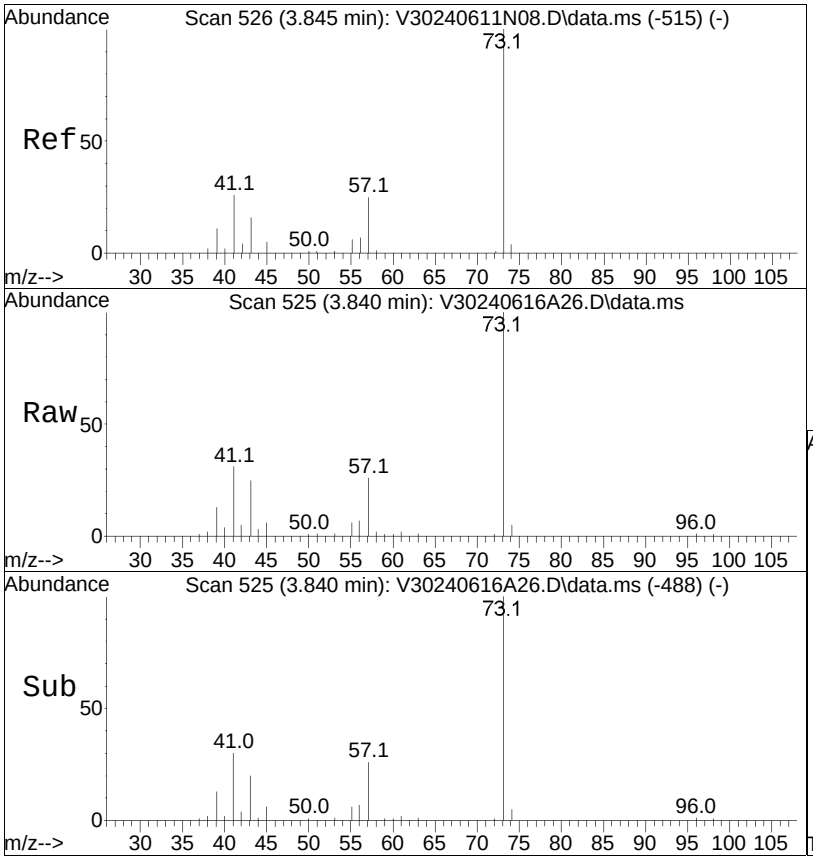


#19
Methyl acetate
Concen: 9.54 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 43 Resp: 41862

Ion	Ratio	Lower	Upper
43	100		
74	19.4	14.6	22.0
59	18.3	9.3	13.9#

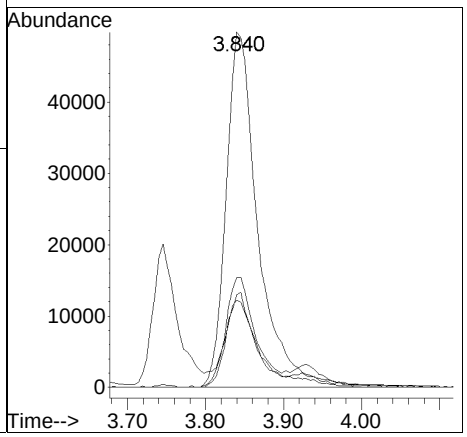


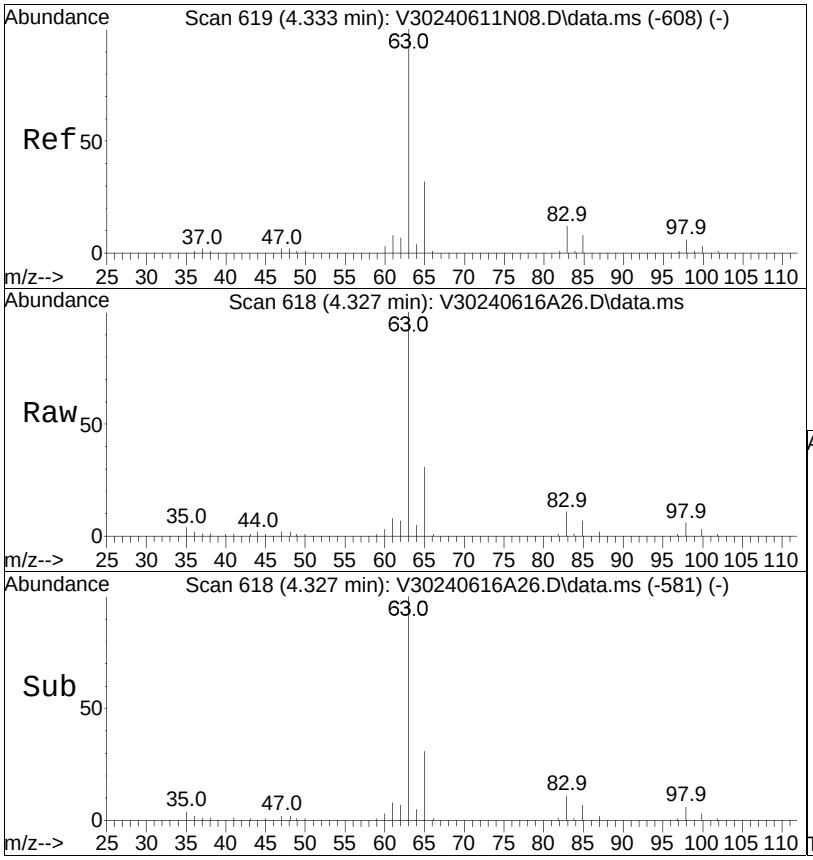


#21
Methyl tert-butyl ether
Concen: 9.22 ug/L
RT: 3.840 min Scan# 525
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 73 Resp: 142415

Ion	Ratio	Lower	Upper
73	100		
57	26.5	15.5	32.1
43	22.8	16.6	34.6
41	28.8	17.2	35.6

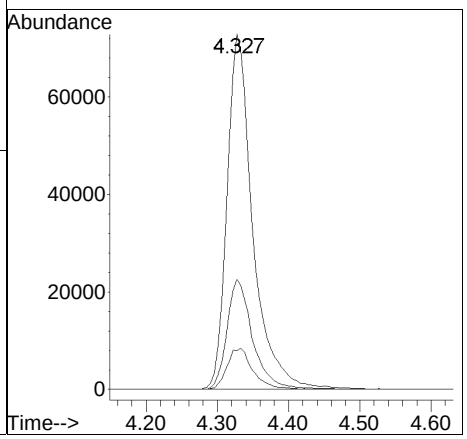


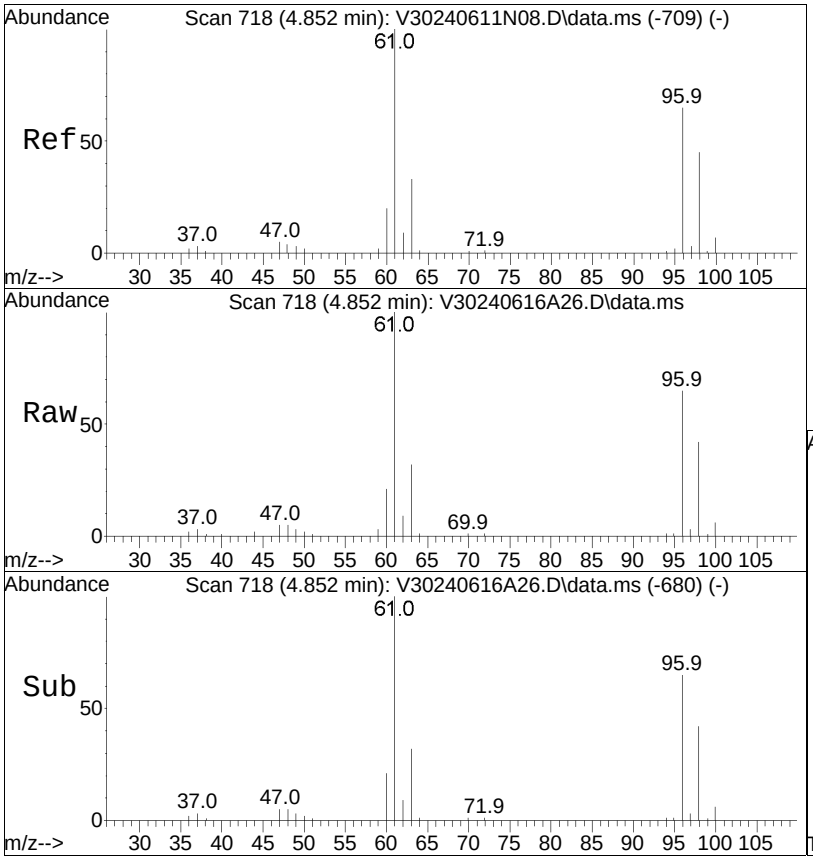


#25
1,1-Dichloroethane
Concen: 11.57 ug/L
RT: 4.327 min Scan# 618
Delta R.T. -0.006 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 63 Resp: 183673

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.5	36.7
83	11.6	8.9	13.3

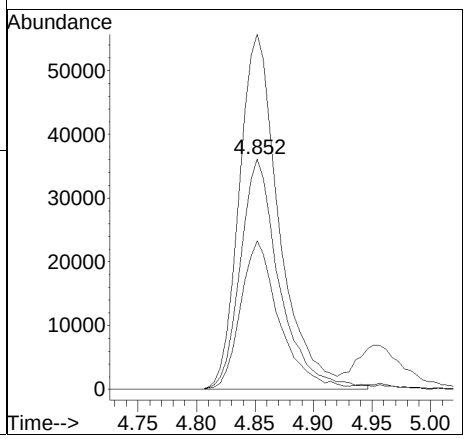


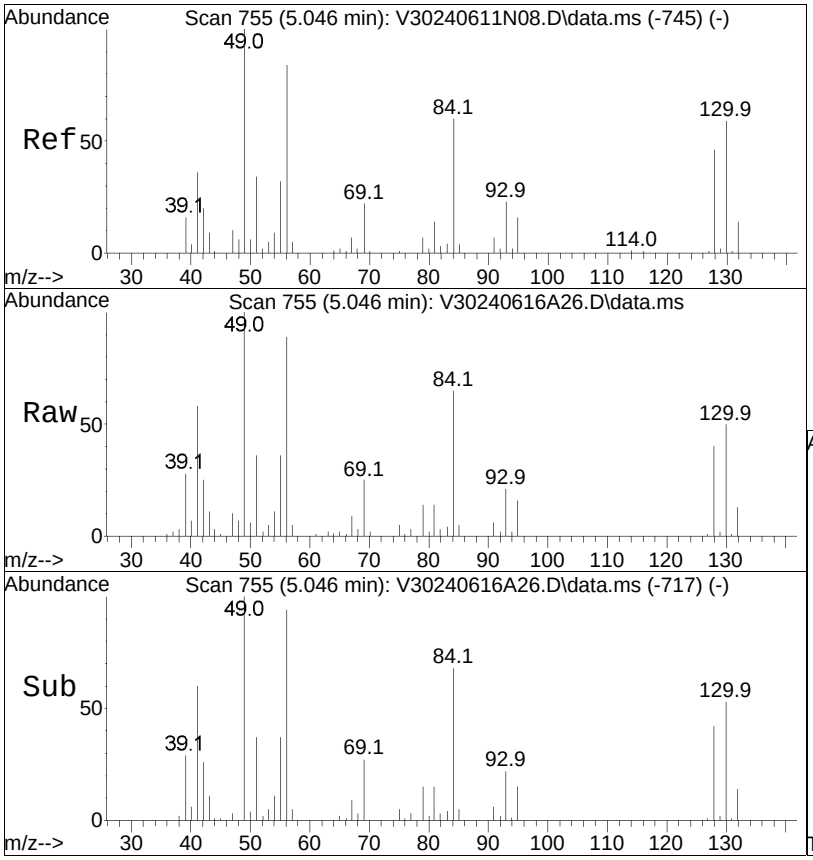


#30
cis-1,2-Dichloroethene
Concen: 10.35 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 96 Resp: 84124

Ion	Ratio	Lower	Upper
96	100		
61	156.2	129.3	193.9
98	64.1	51.4	77.2

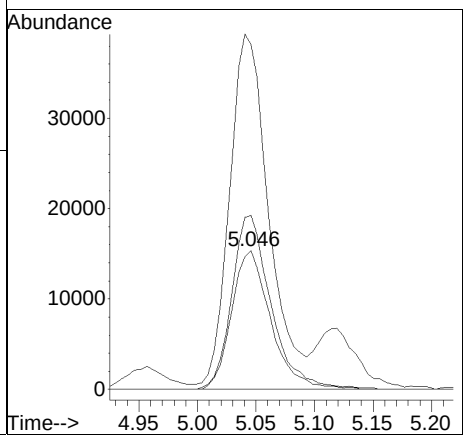


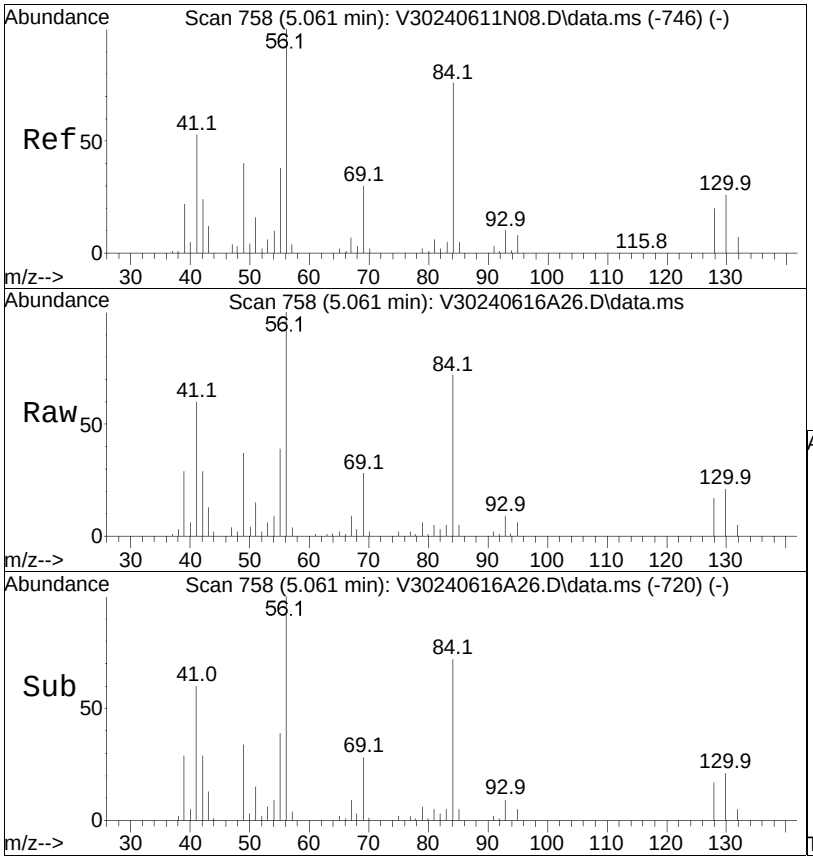


#33
Bromochloromethane
Concen: 10.14 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:128 Resp: 35818

Ion	Ratio	Lower	Upper
128	100		
49	256.5	214.8	322.2
130	125.8	105.4	158.2

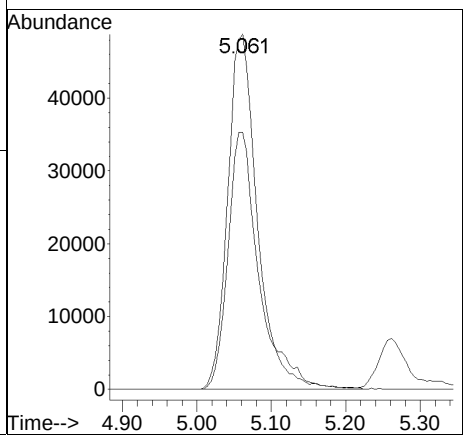


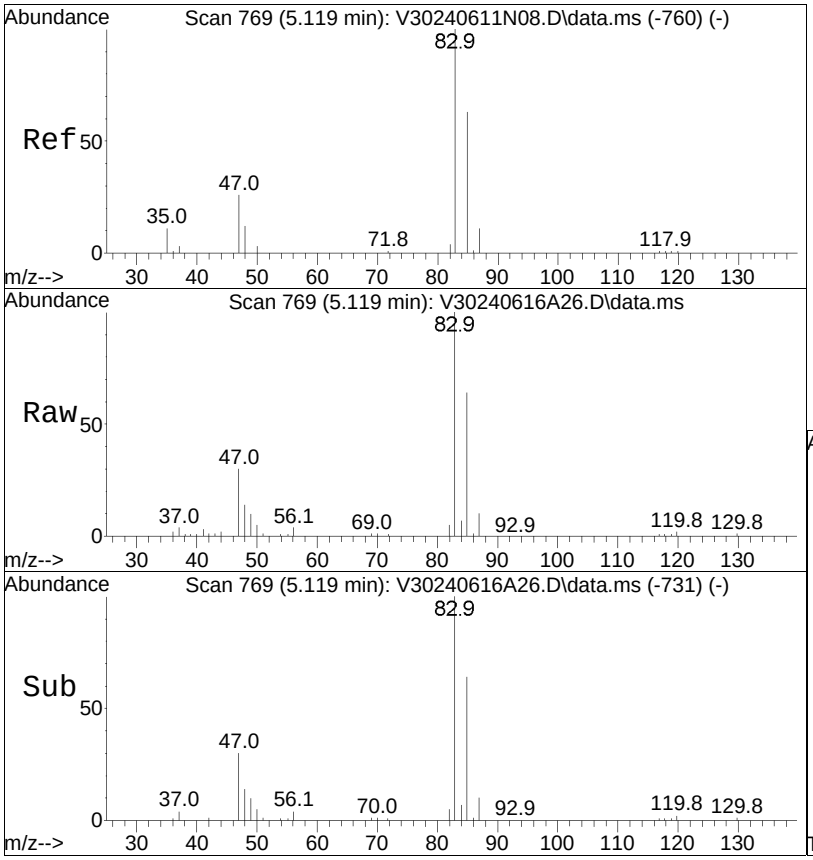


#34
Cyclohexane
Concen: 10.48 ug/L
RT: 5.061 min Scan# 758
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 56 Resp: 136011

Ion	Ratio	Lower	Upper
56	100		
84	75.7	49.9	103.5

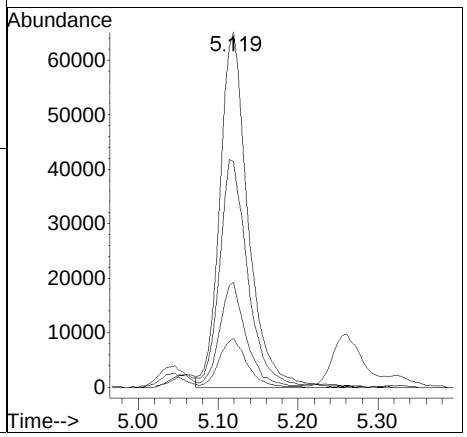


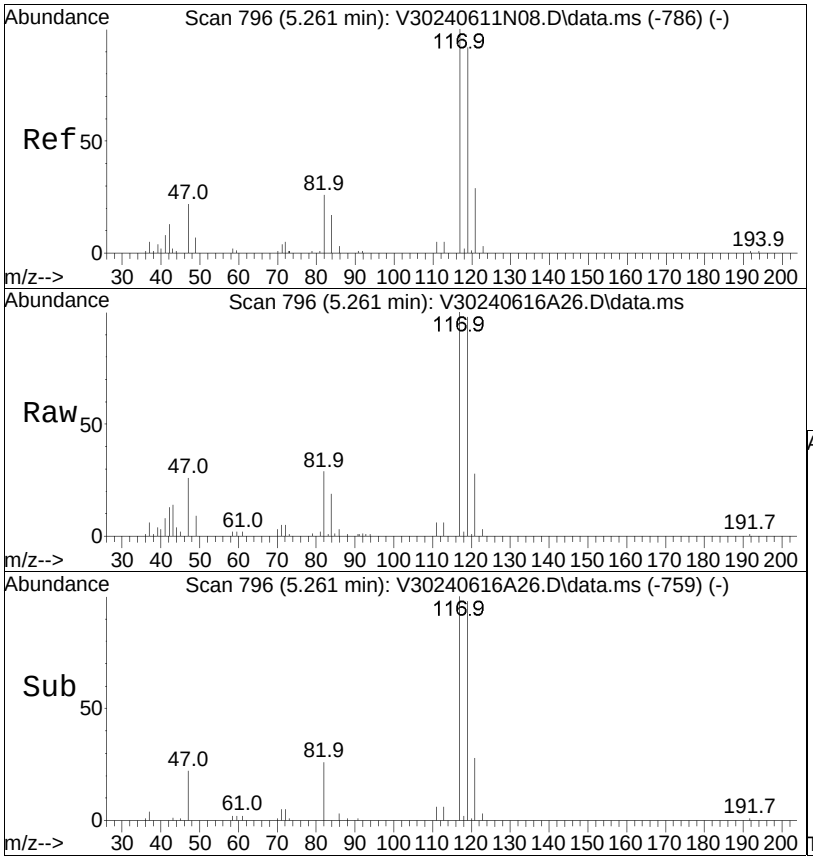


#35
Chloroform
Concen: 11.37 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 83 Resp: 161059

Ion	Ratio	Lower	Upper
83	100		
85	64.3	41.4	86.0
47	26.5	20.5	42.5
48	13.6	9.9	20.5

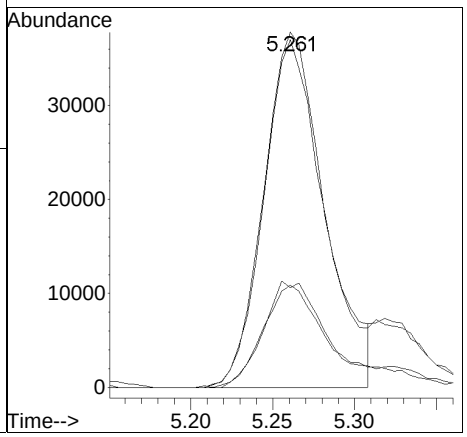


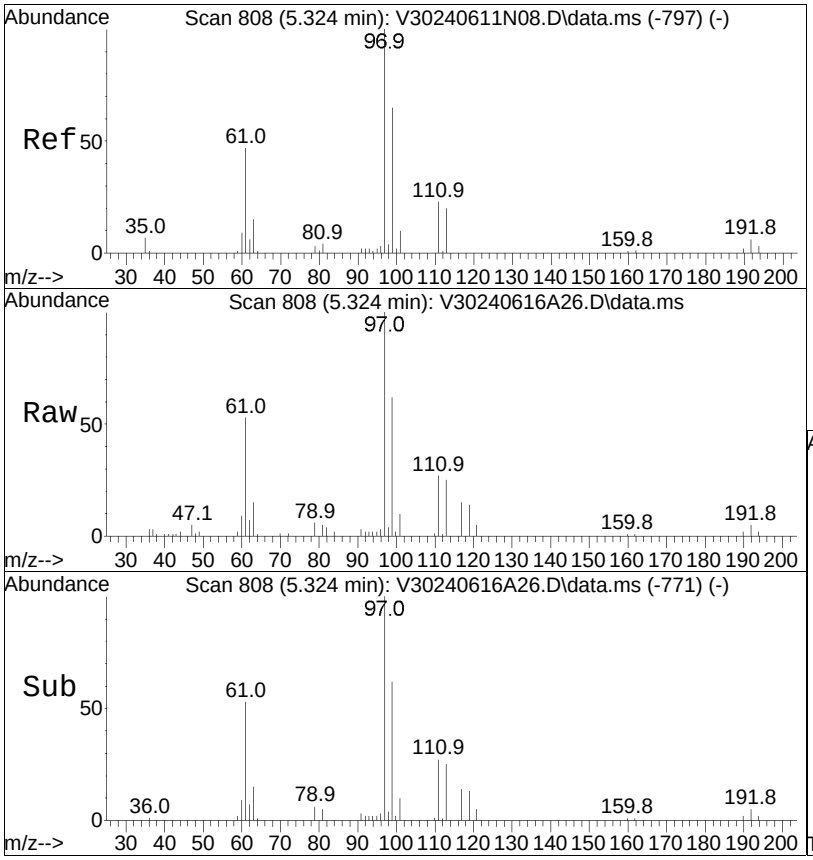


#37
Carbon tetrachloride
Concen: 11.49 ug/L
RT: 5.261 min Scan# 796
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:117 Resp: 97825

Ion	Ratio	Lower	Upper
117	100		
119	96.5	62.0	128.8
121	31.1	19.6	40.6
82	34.0	18.8	39.0

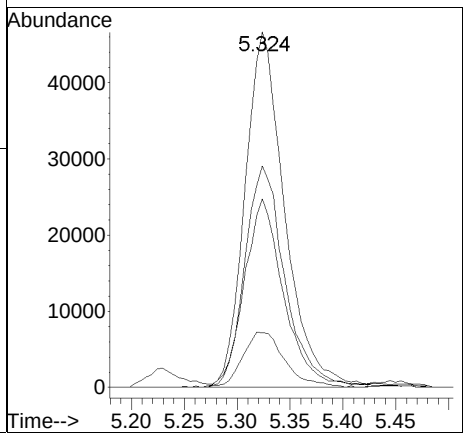


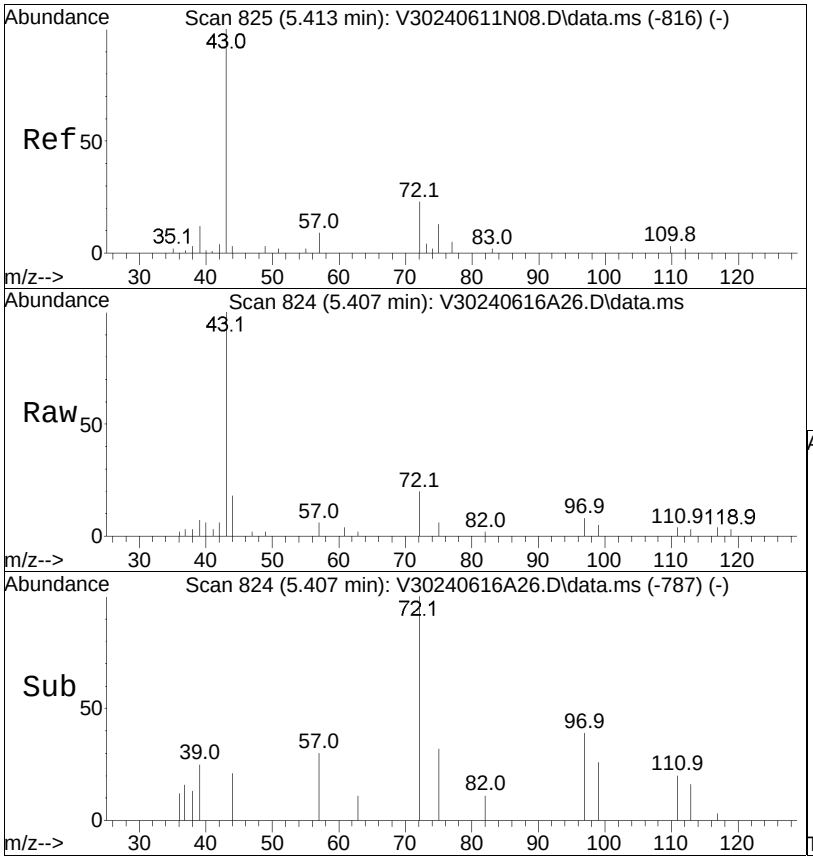


#40
1,1,1-Trichloroethane
Concen: 11.37 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 97 Resp: 122386

Ion	Ratio	Lower	Upper
97	100		
99	63.4	40.6	84.4
61	52.6	35.0	72.8
63	16.6	11.1	23.0

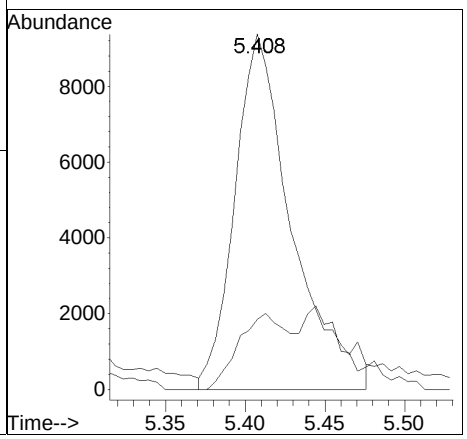


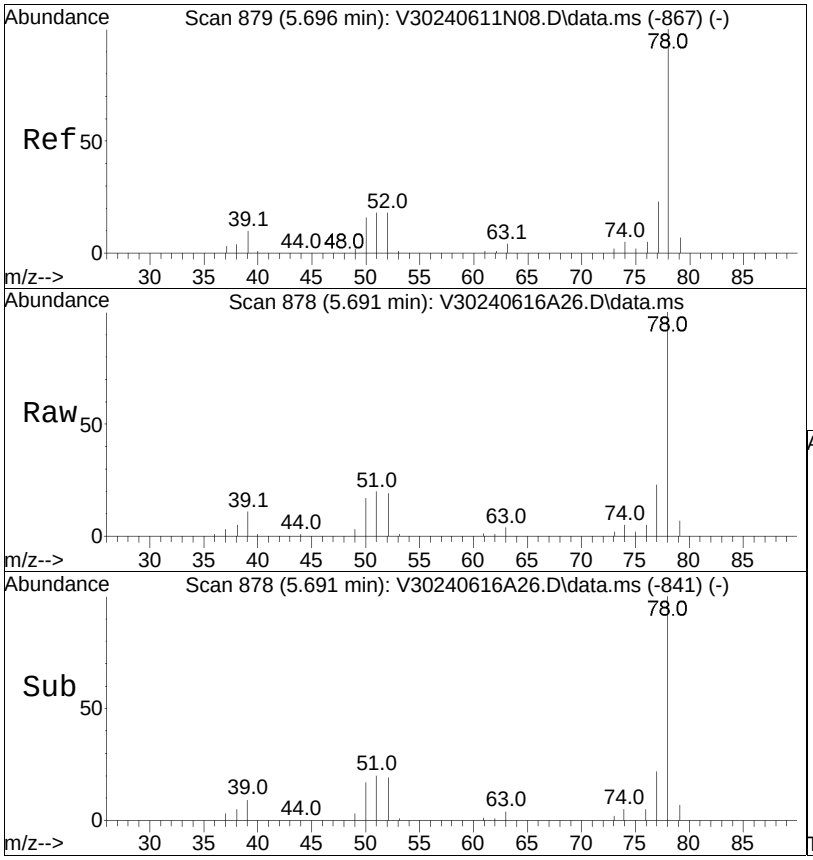


#42
2-Butanone
Concen: 9.80 ug/L M3
RT: 5.407 min Scan# 824
Delta R.T. -0.006 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 43 Resp: 23397

Ion	Ratio	Lower	Upper
43	100		
72	28.7	18.2	27.4#

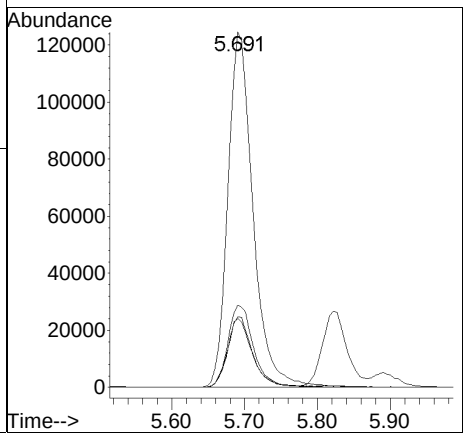


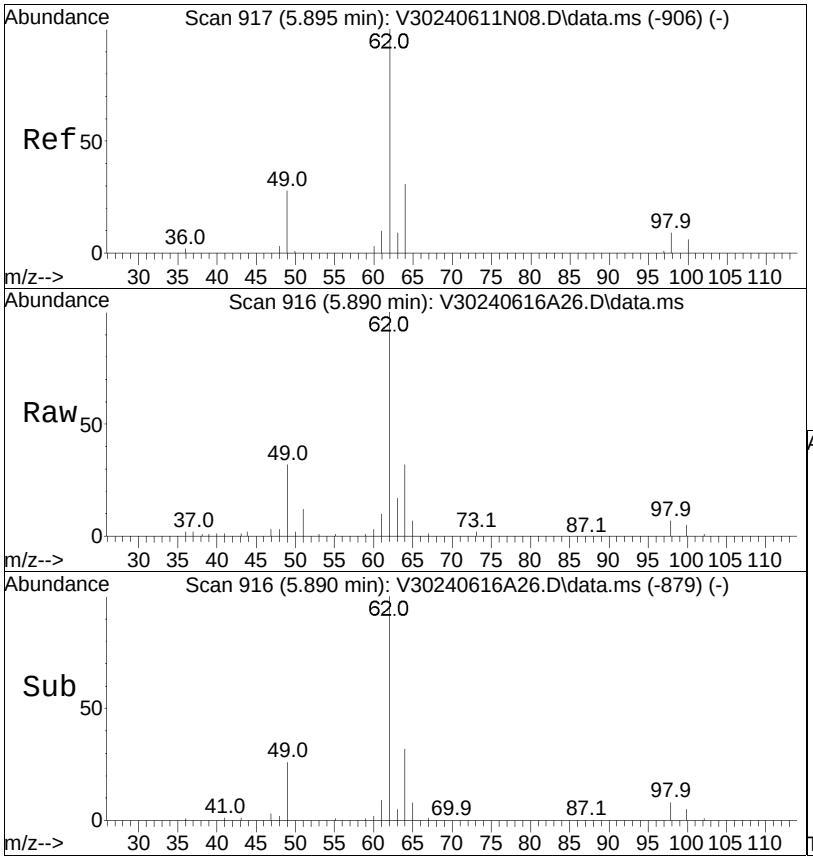


#45
Benzene
Concen: 10.50 ug/L
RT: 5.691 min Scan# 878
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 78 Resp: 300129

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.6	32.4
51	19.6	12.9	26.7
52	19.3	12.4	25.7

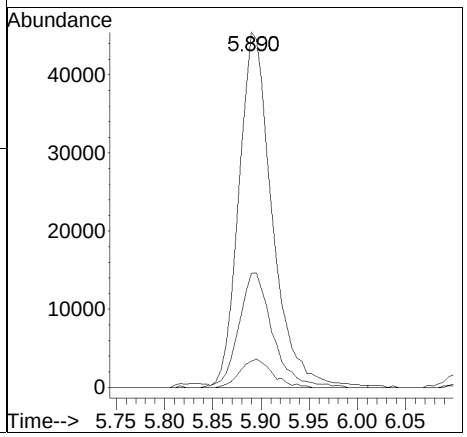


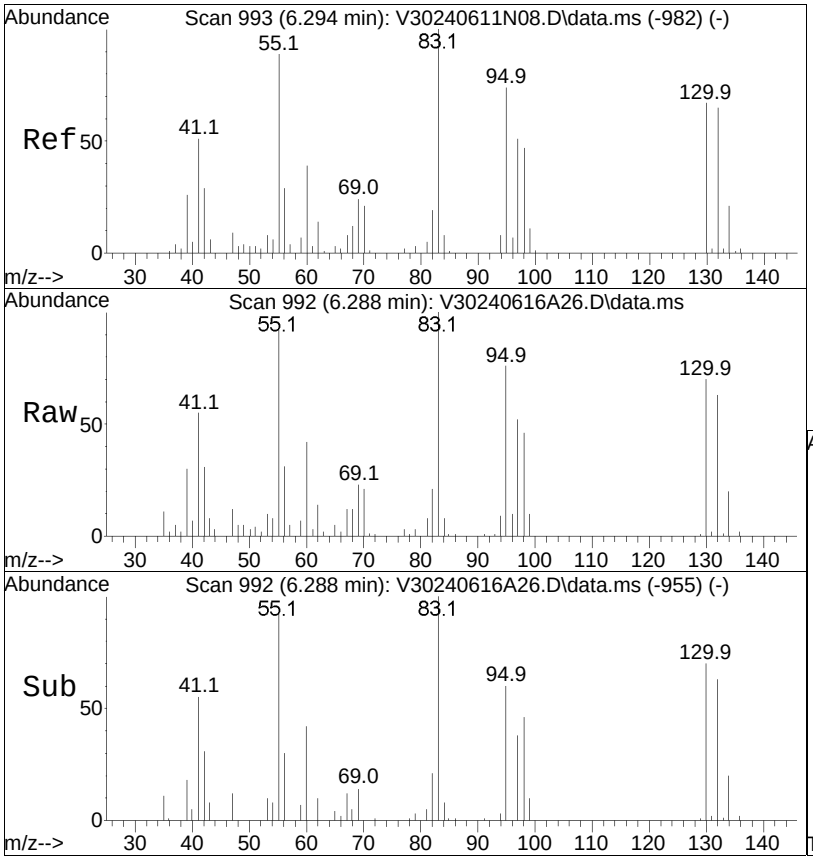


#48
1,2-Dichloroethane
Concen: 11.01 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 62 Resp: 109453

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.5	38.3
98	7.7	5.5	8.3

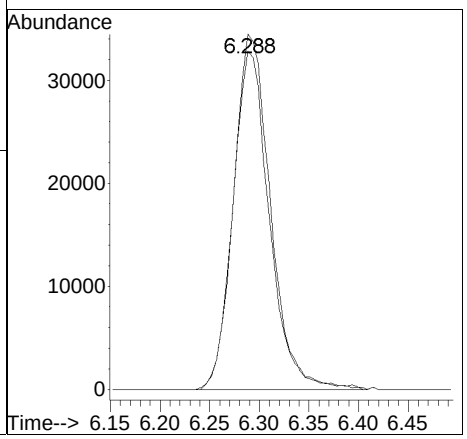


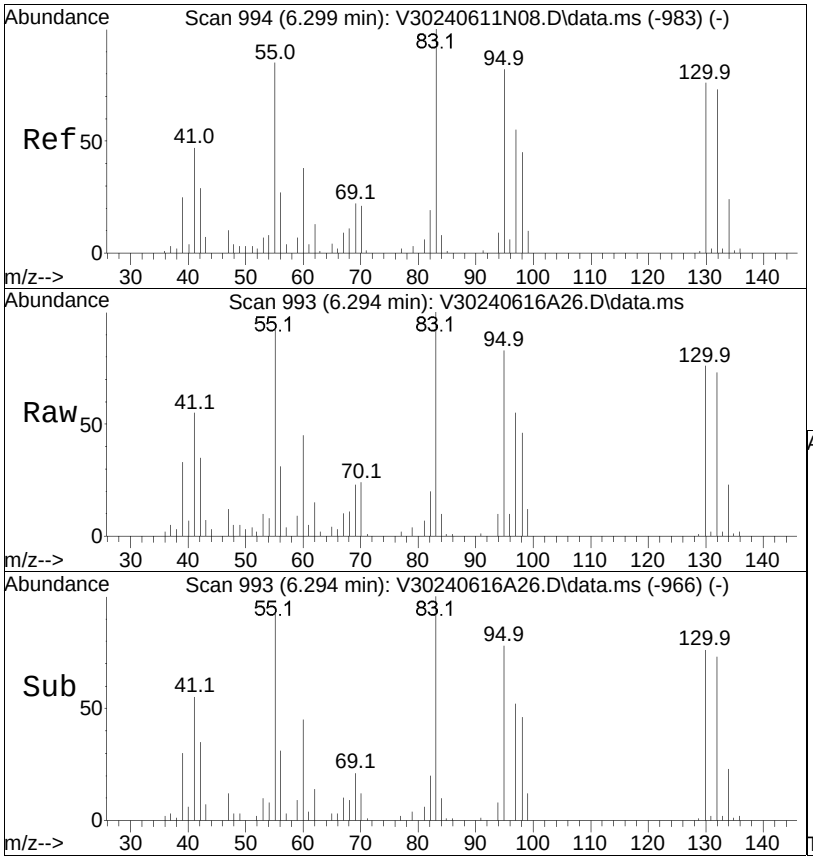


#51
Methyl cyclohexane
Concen: 8.53 ug/L
RT: 6.288 min Scan# 992
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 83 Resp: 88959

Ion	Ratio	Lower	Upper
83	100		
55	94.2	74.6	112.0

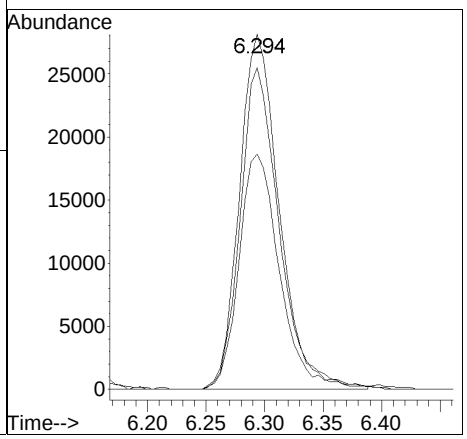


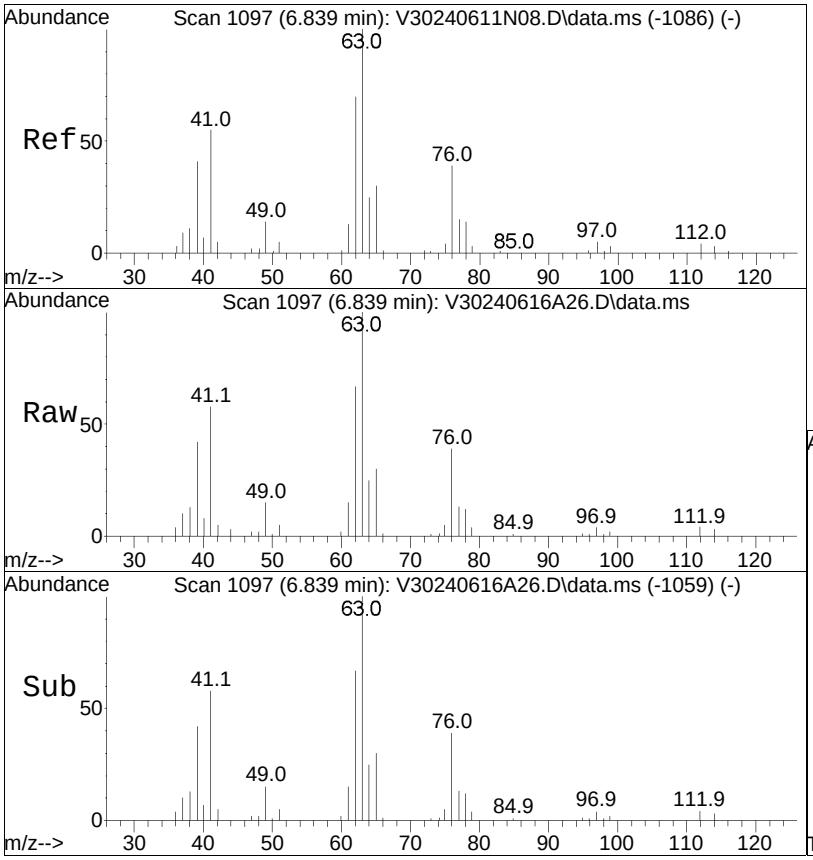


#52
Trichloroethene
Concen: 9.75 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 95 Resp: 67080

Ion	Ratio	Lower	Upper
95	100		
97	67.6	53.8	80.6
130	88.3	71.4	107.0

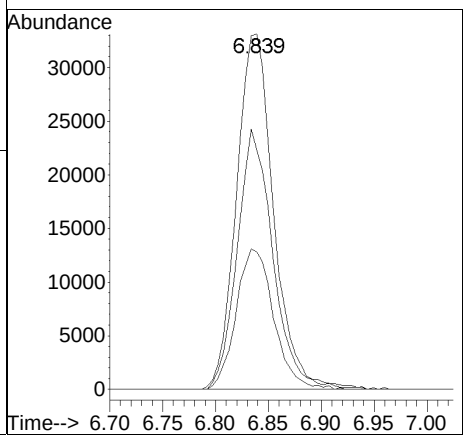


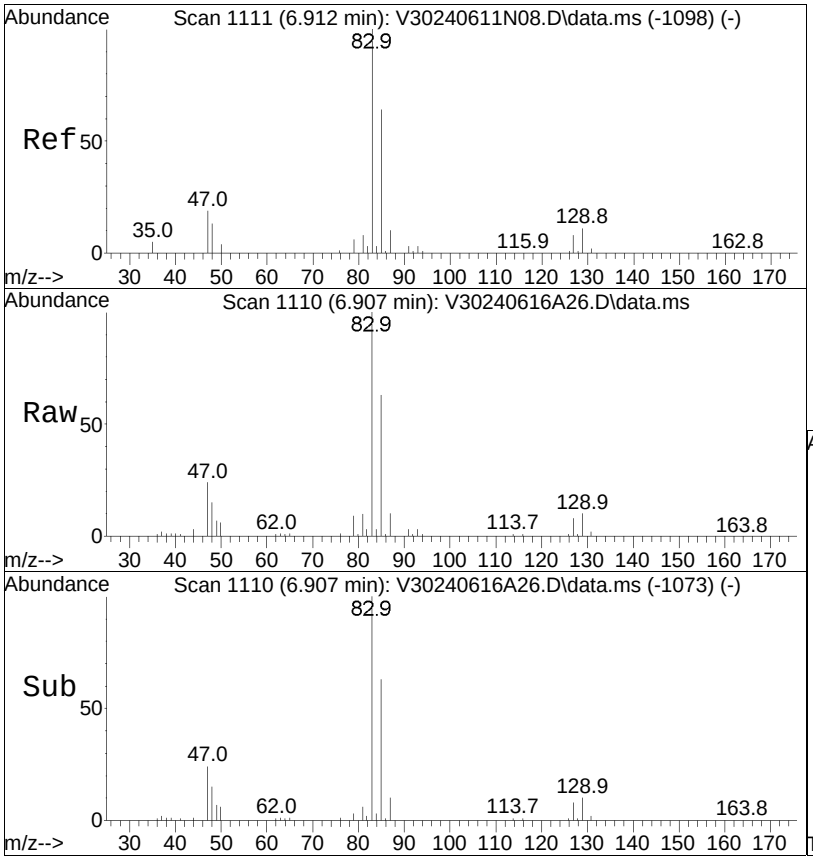


#55
1,2-Dichloropropane
Concen: 10.15 ug/L
RT: 6.839 min Scan# 1097
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 63 Resp: 81151

Ion	Ratio	Lower	Upper
63	100		
62	70.5	58.1	87.1
76	40.0	30.4	45.6

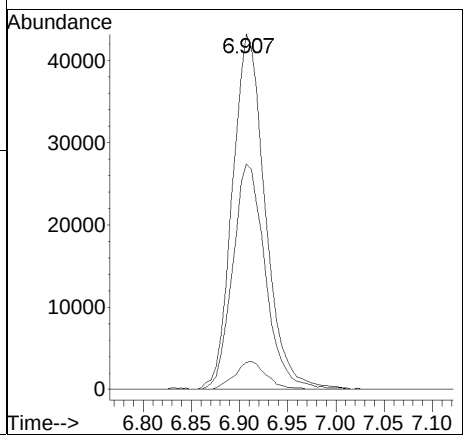


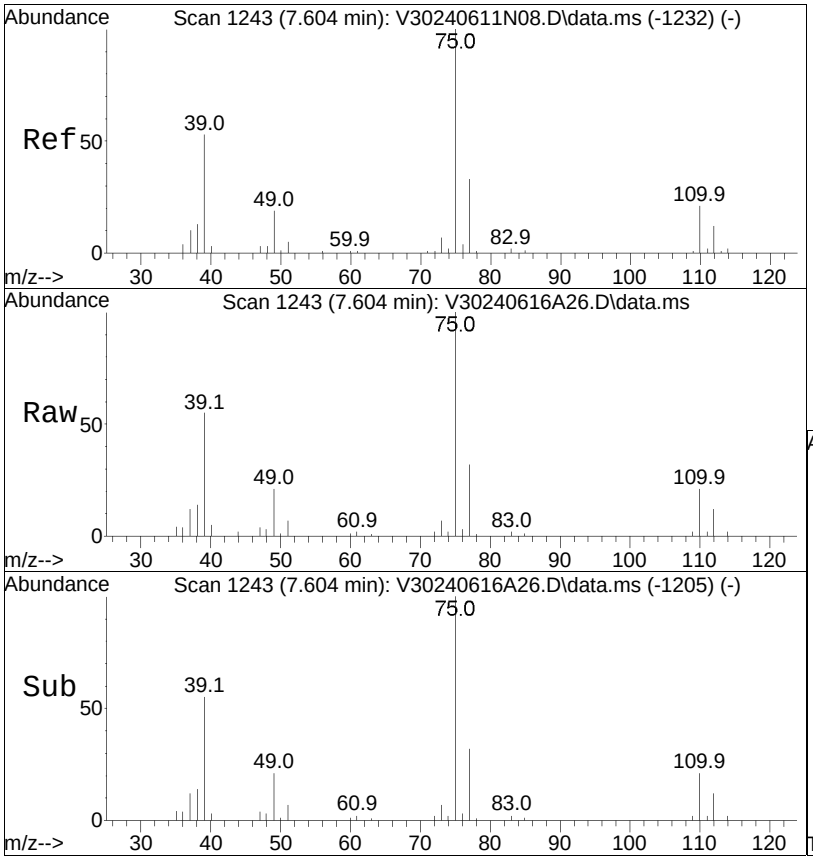


#58
Bromodichloromethane
Concen: 10.15 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 83 Resp: 102420

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.2	75.2
127	7.6	5.2	7.8

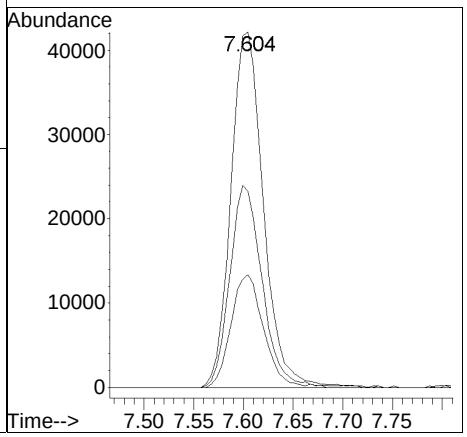


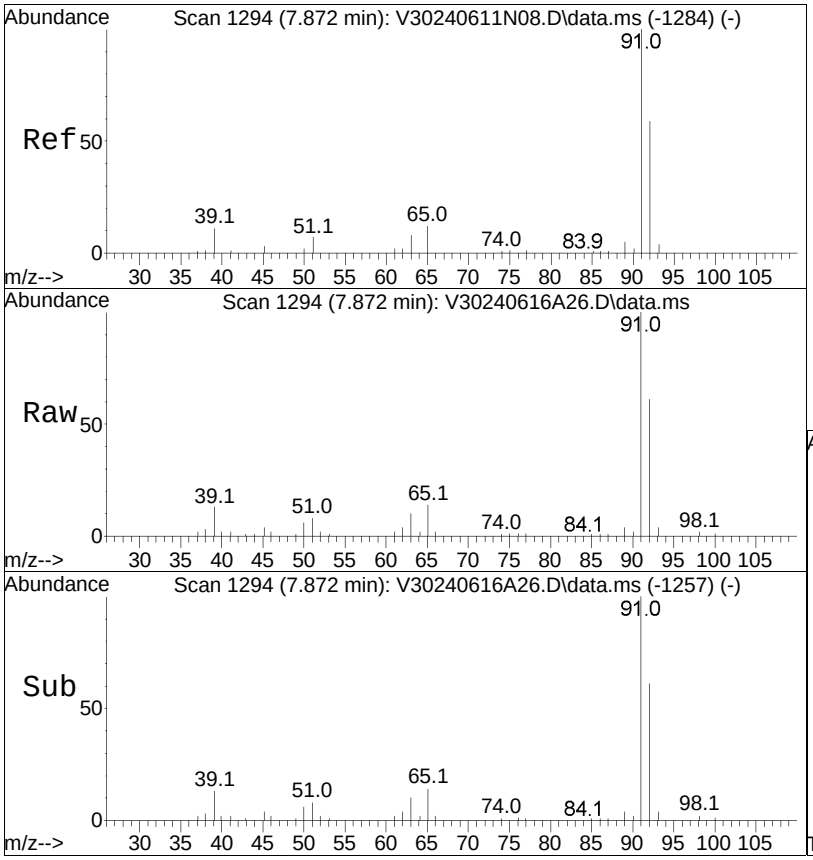


#62
cis-1,3-Dichloropropene
Concen: 9.18 ug/L
RT: 7.604 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 75 Resp: 96093

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2
39	56.5	54.6	82.0

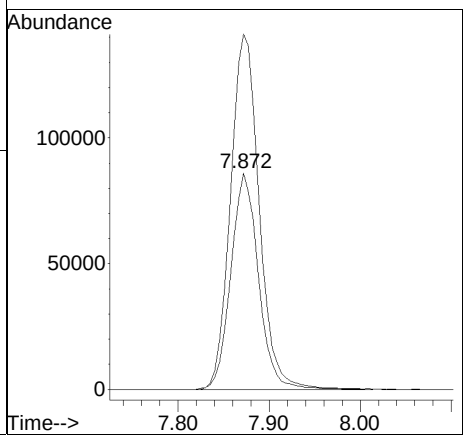


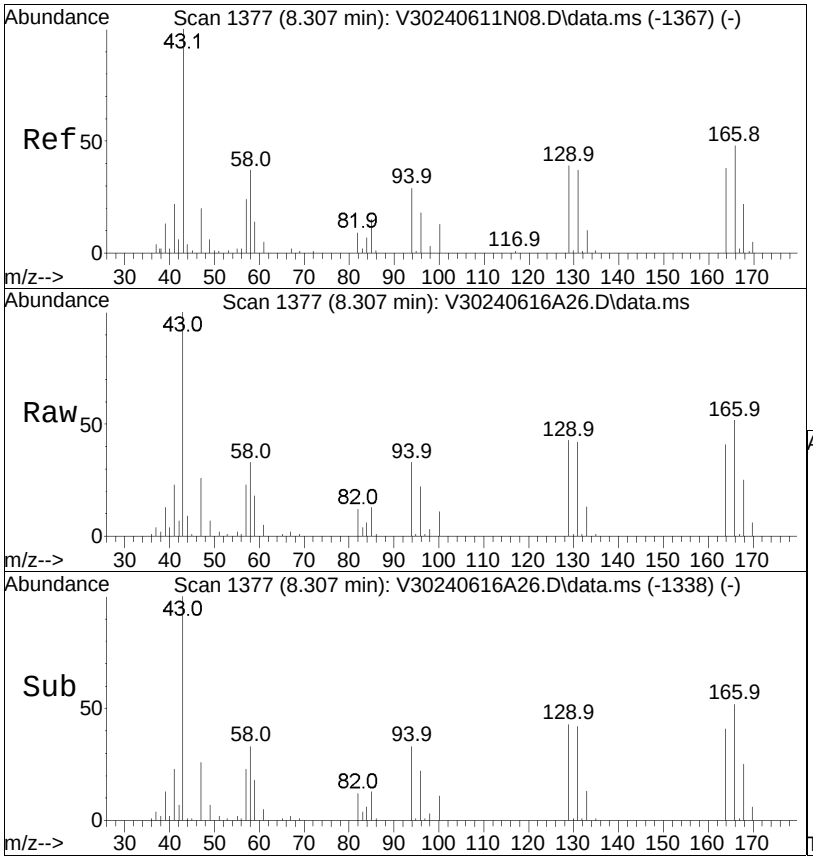


#65
Toluene
Concen: 9.89 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 92 Resp: 181063

Ion	Ratio	Lower	Upper
92	100		
91	170.6	137.5	206.3

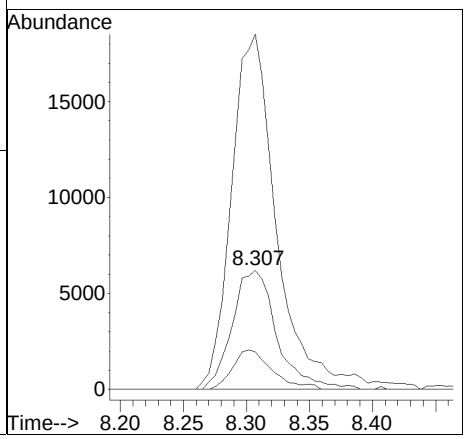


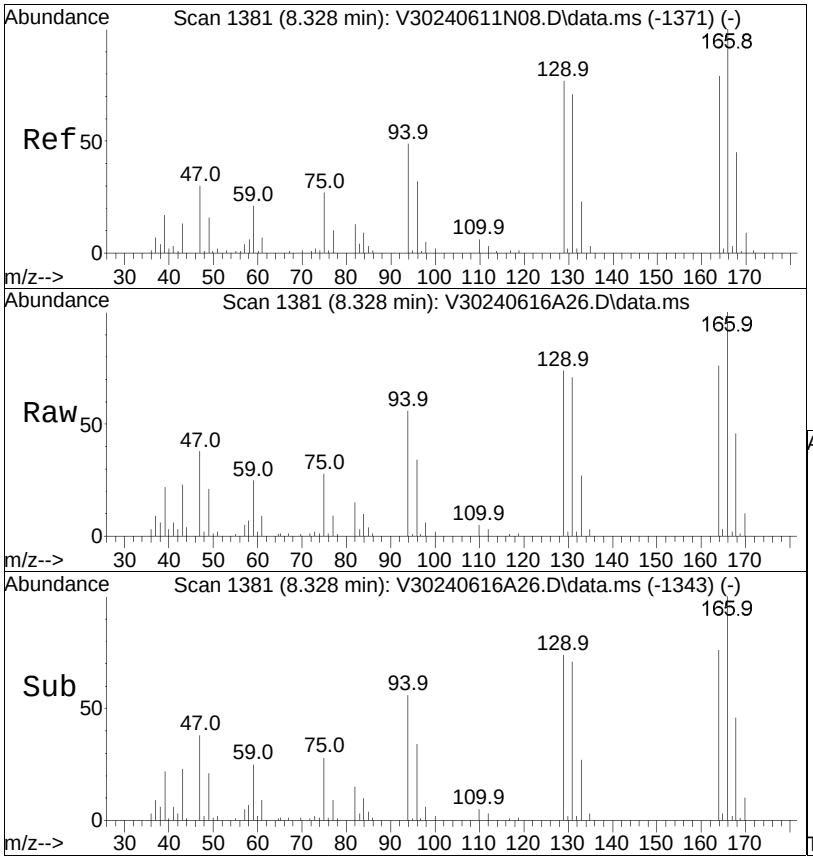


#66
4-Methyl-2-pentanone
Concen: 8.60 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 58 Resp: 15273

Ion	Ratio	Lower	Upper
58	100		
100	29.6	22.6	34.0
43	305.9	234.6	351.8

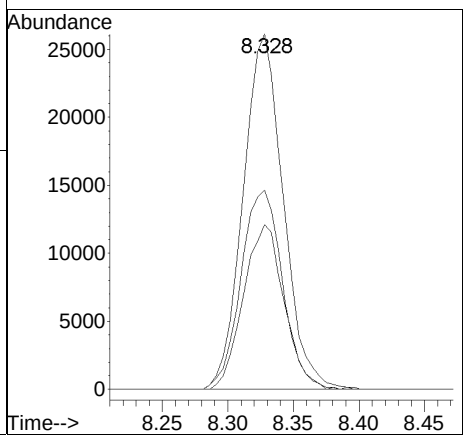


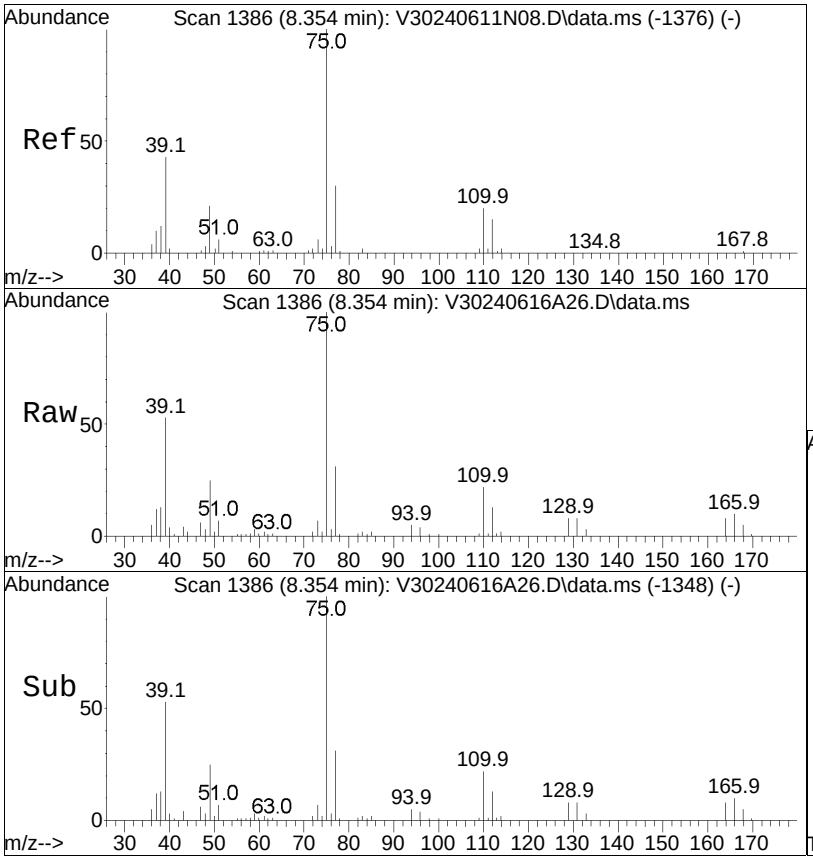


#67
Tetrachloroethene
Concen: 9.13 ug/L
RT: 8.328 min Scan# 1381
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:166 Resp: 55708

Ion	Ratio	Lower	Upper
166	100		
168	47.0	38.6	58.0
94	57.7	42.6	63.8

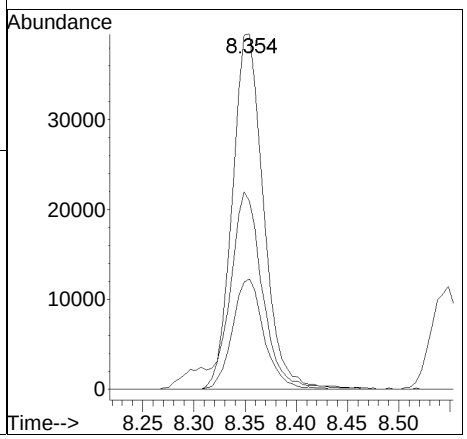


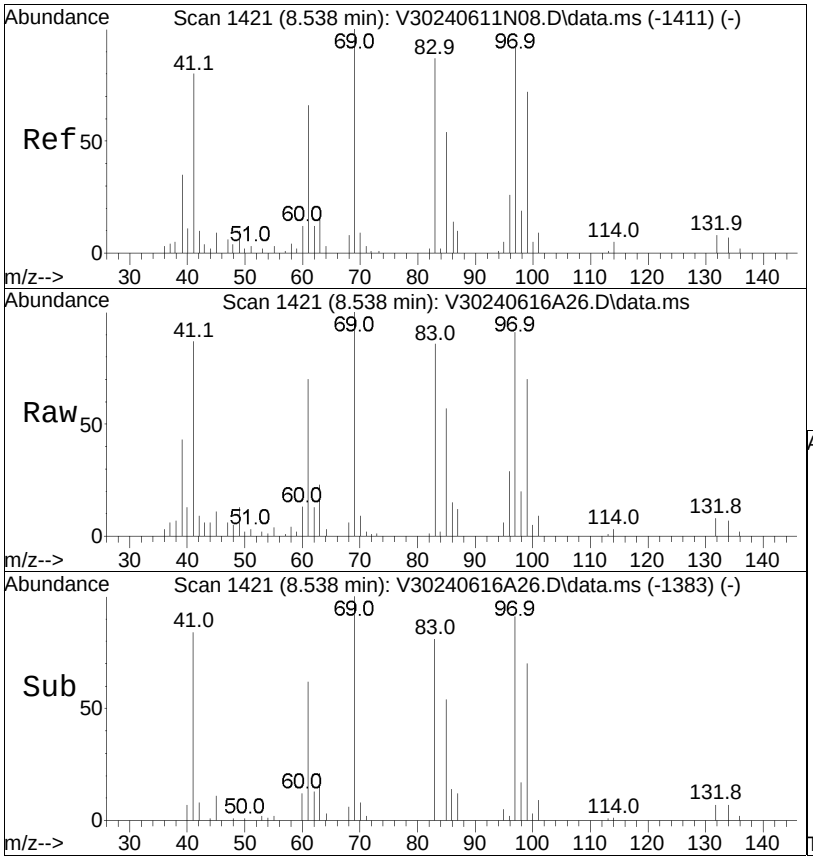


#69
trans-1,3-Dichloropropene
Concen: 9.08 ug/L
RT: 8.354 min Scan# 1386
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 75 Resp: 84239

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4
39	61.8	60.2	90.4

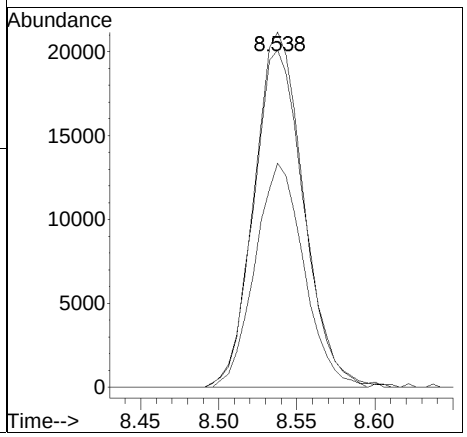


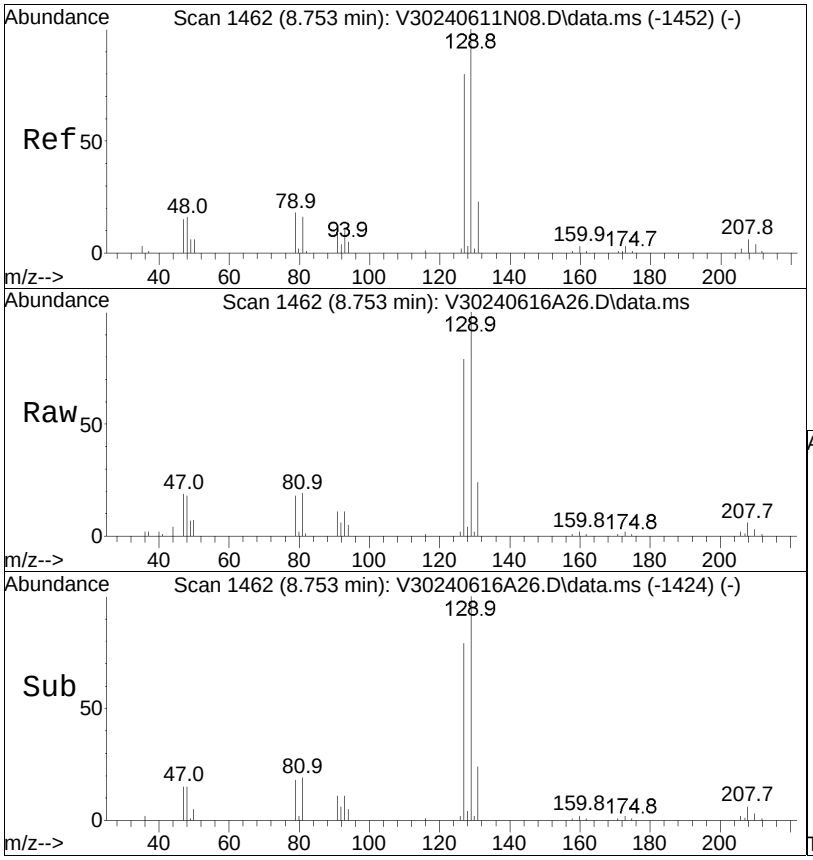


#72
1,1,2-Trichloroethane
Concen: 9.31 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 83 Resp: 44851

Ion	Ratio	Lower	Upper
83	100		
97	104.2	87.7	131.5
85	65.3	53.1	79.7

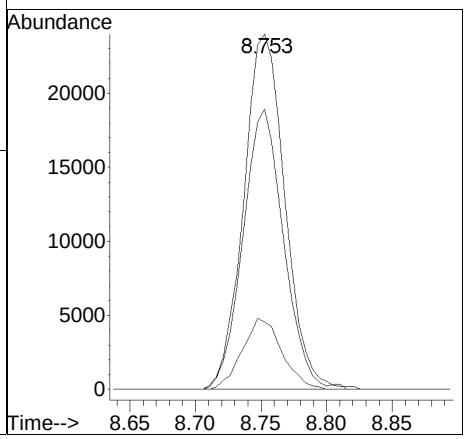


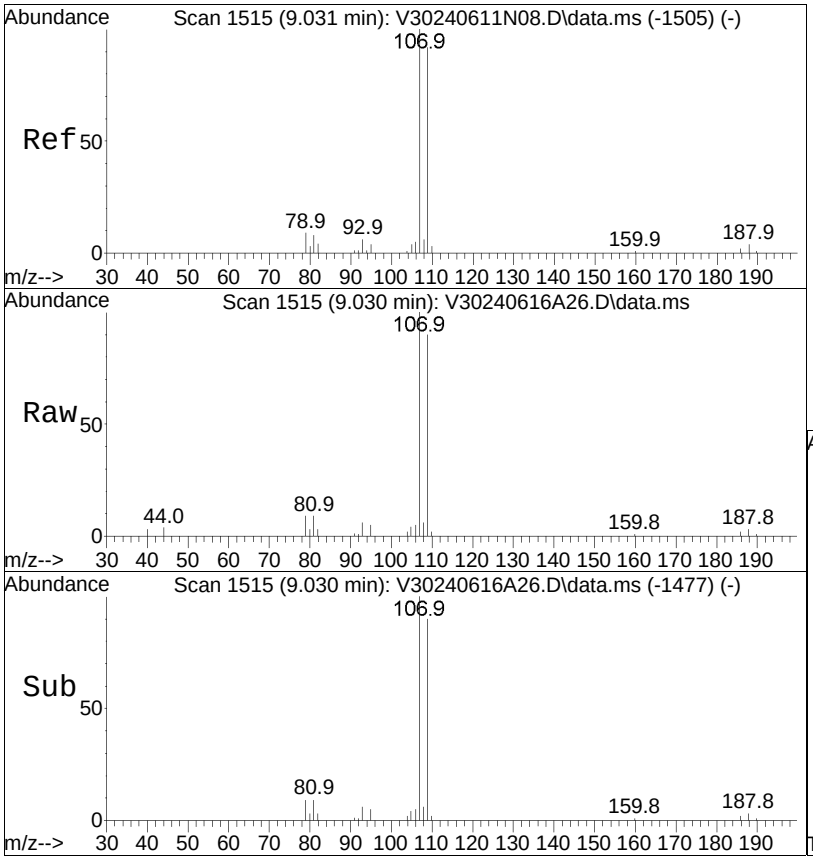


#73
Chlorodibromomethane
Concen: 8.41 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:129 Resp: 52627

Ion	Ratio	Lower	Upper
129	100		
81	19.3	14.6	22.0
127	77.6	62.6	93.8

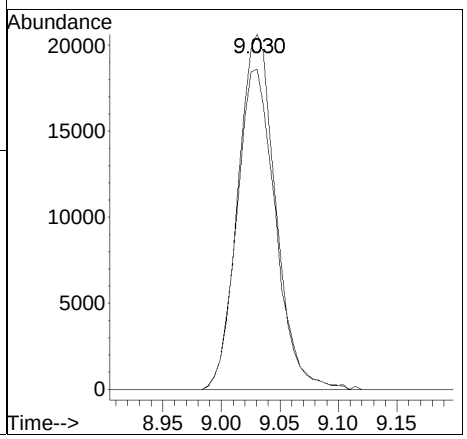


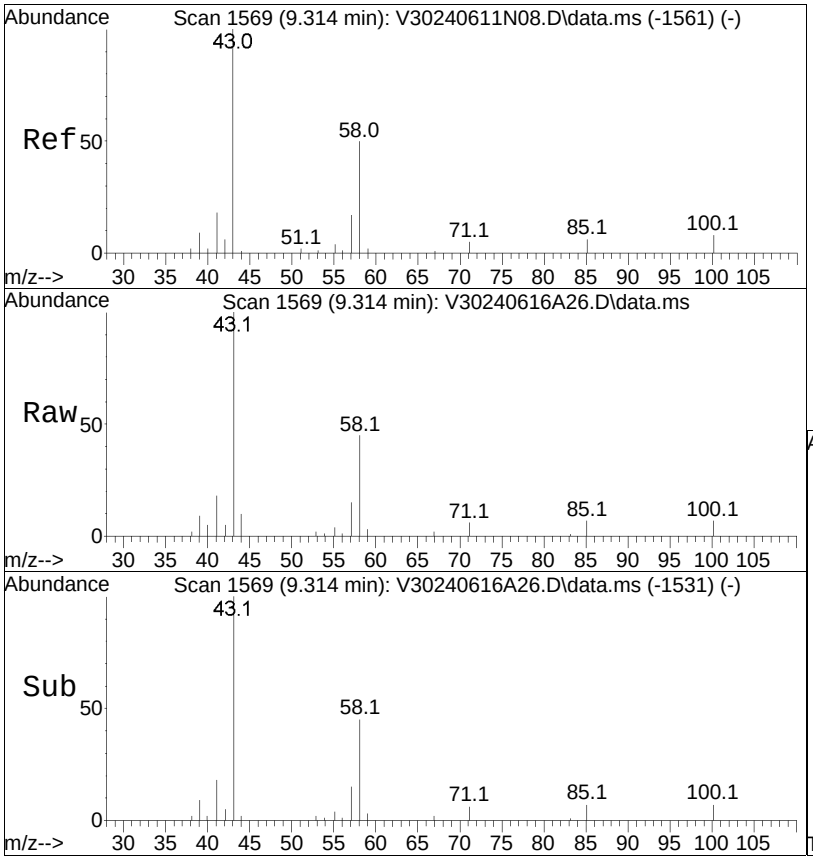


#75
1,2-Dibromoethane
Concen: 8.90 ug/L
RT: 9.030 min Scan# 1515
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:107 Resp: 46170

Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.0	112.4

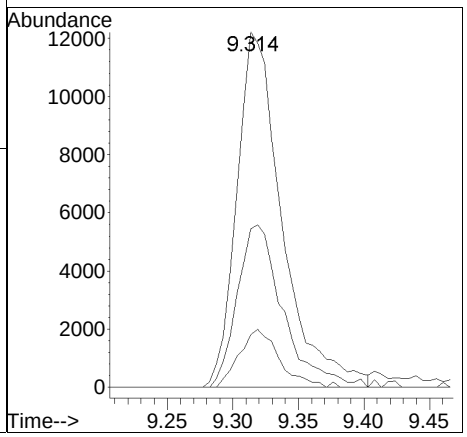


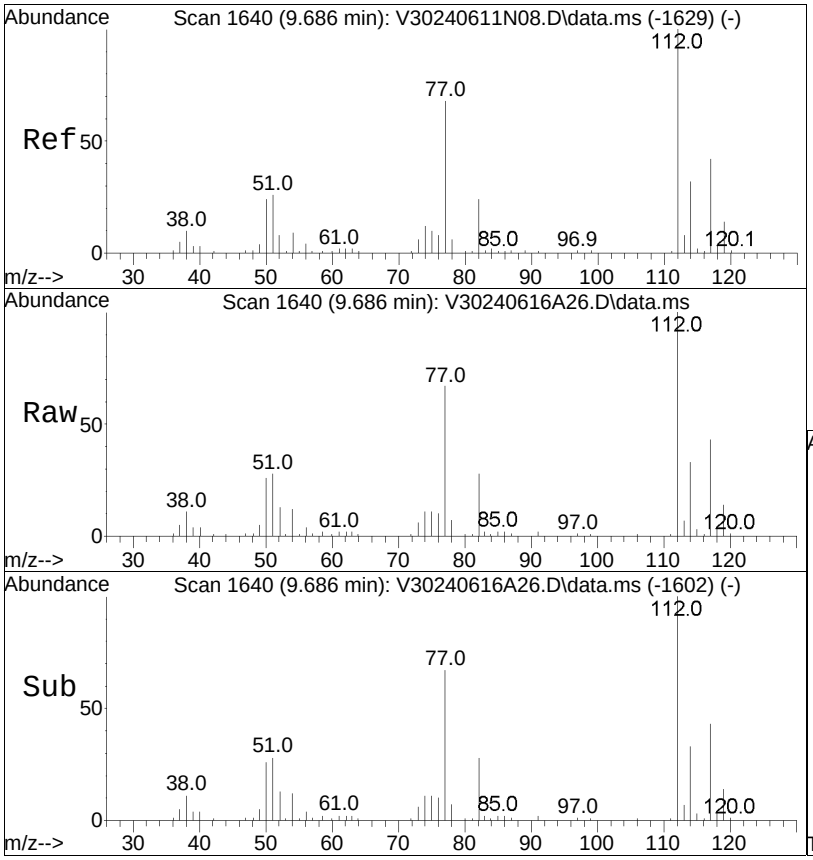


#77
2-Hexanone
Concen: 8.85 ug/L
RT: 9.314 min Scan# 1569
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 43 Resp: 29381

Ion	Ratio	Lower	Upper
43	100		
58	46.3	38.6	58.0
57	14.5	14.1	21.1

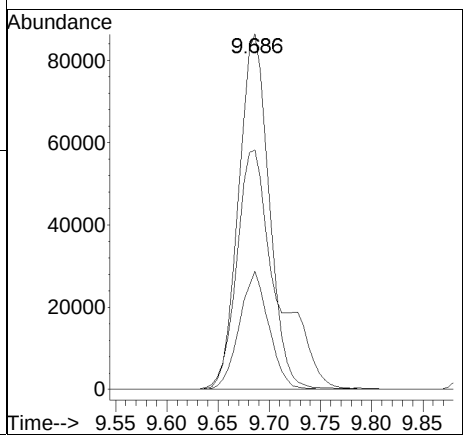


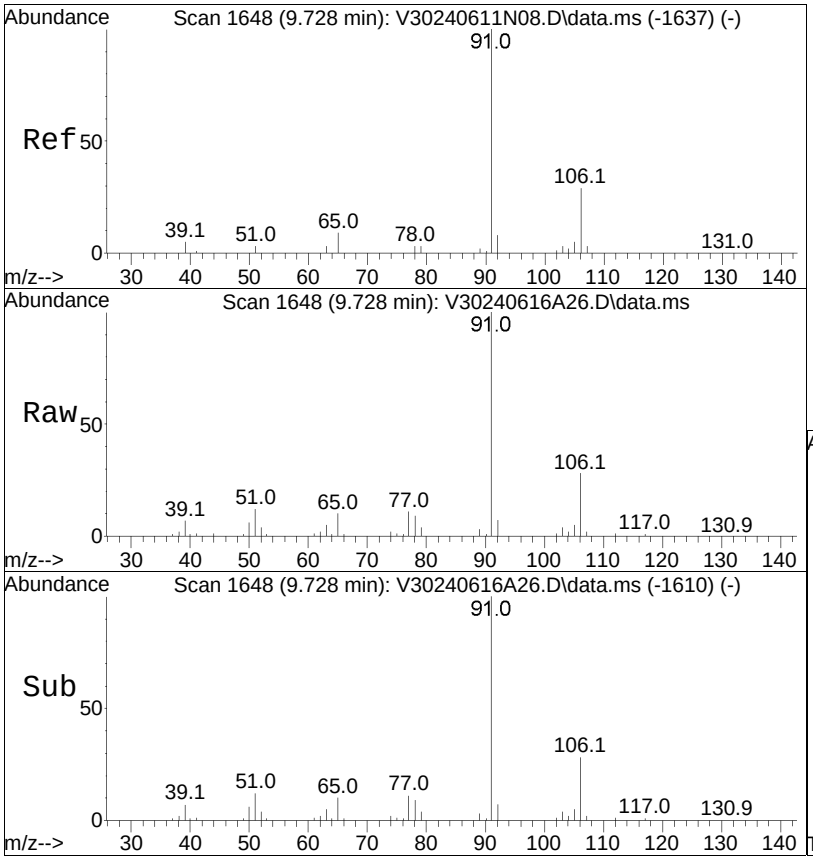


#78
Chlorobenzene
Concen: 9.46 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:112 Resp: 178931

Ion	Ratio	Lower	Upper
112	100		
77	89.3	54.8	82.2#
114	32.1	25.4	38.0

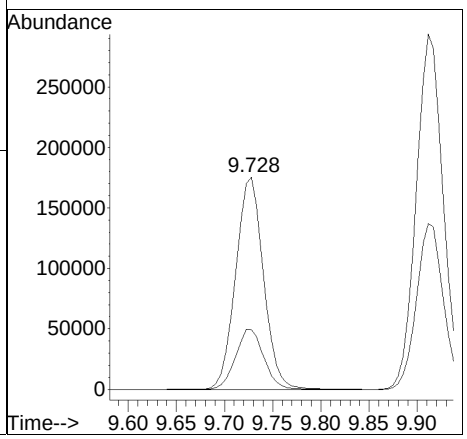


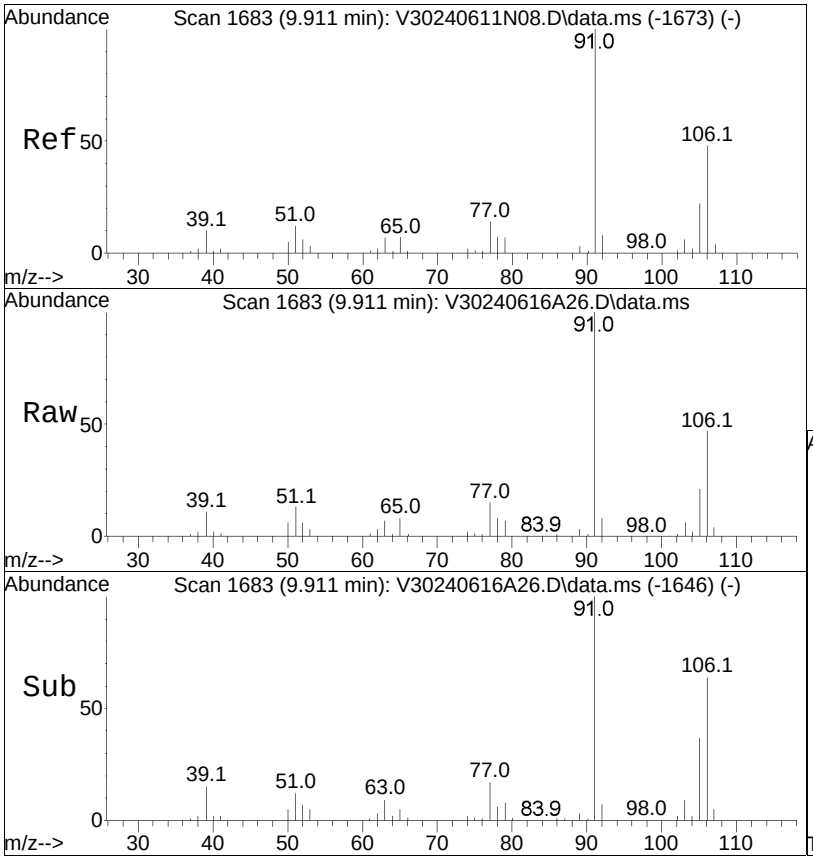


#79
Ethylbenzene
Concen: 10.20 ug/L
RT: 9.728 min Scan# 1648
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 91 Resp: 351829

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.4	35.2

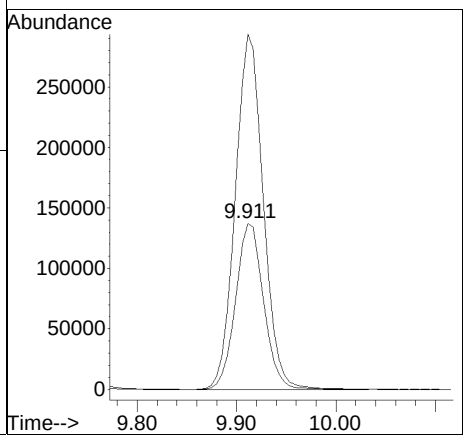


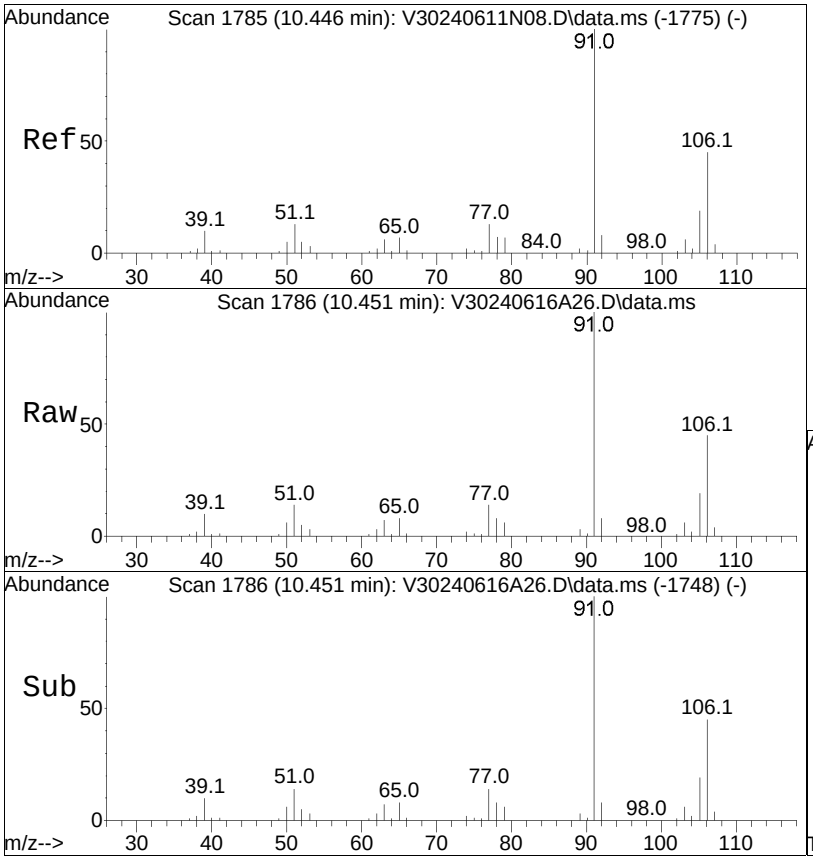


#81
p/m Xylene
Concen: 20.41 ug/L
RT: 9.911 min Scan# 1683
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:106 Resp: 268368

Ion	Ratio	Lower	Upper
106	100		
91	214.0	171.4	257.2

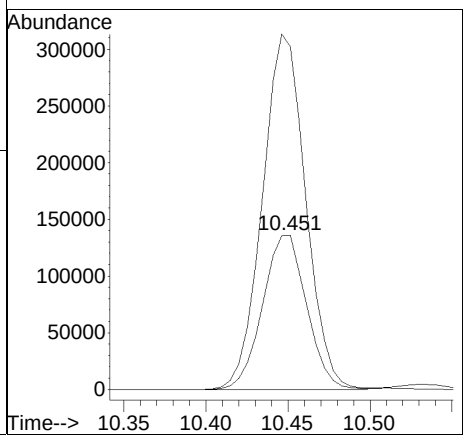


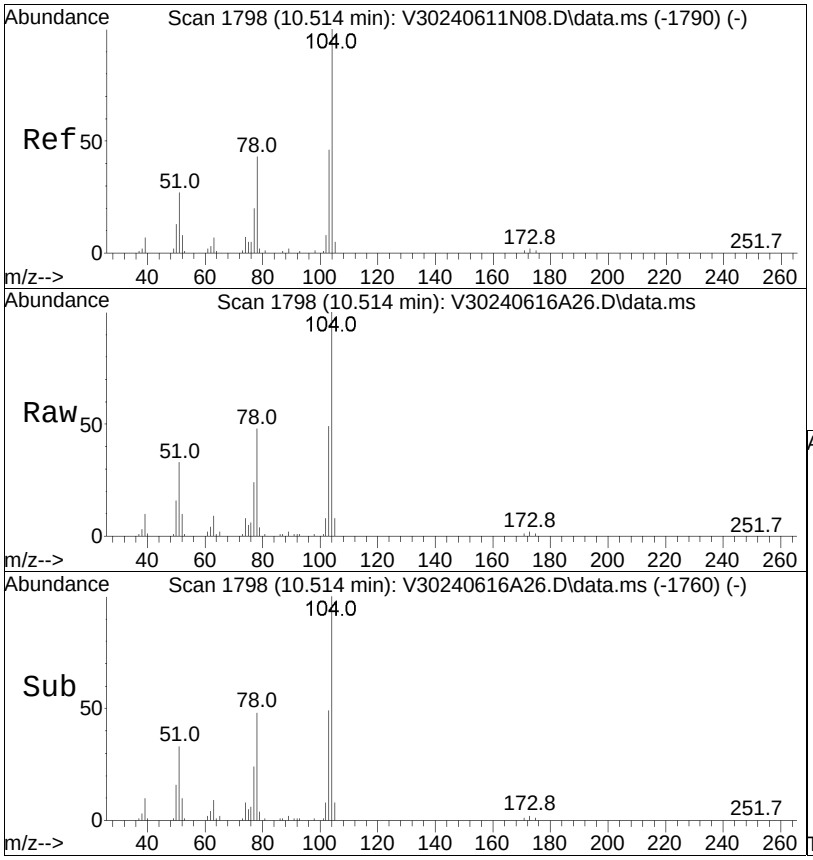


#82
o Xylene
Concen: 20.05 ug/L
RT: 10.451 min Scan# 1786
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:106 Resp: 253343

Ion	Ratio	Lower	Upper
106	100		
91	226.3	179.2	268.8

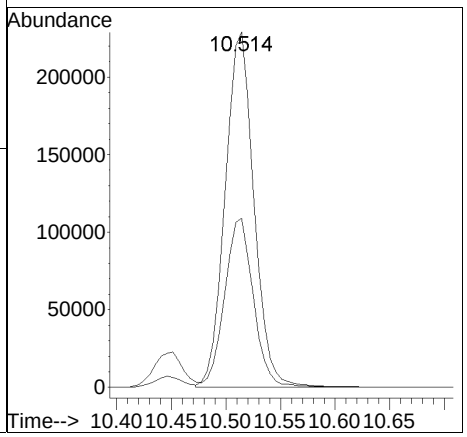


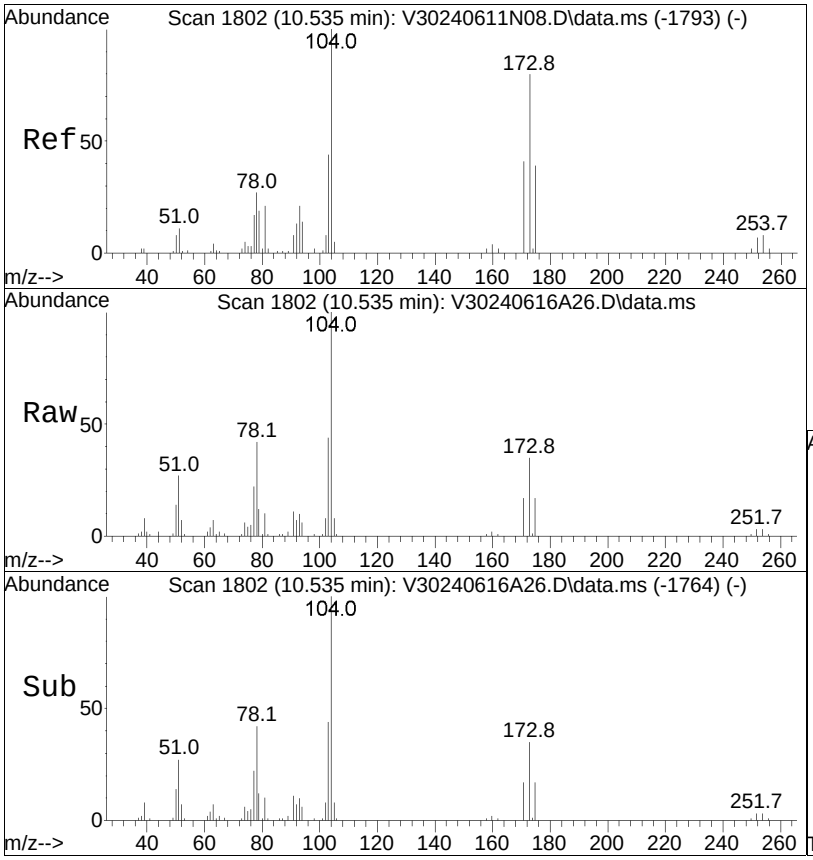


#83
Styrene
Concen: 20.03 ug/L
RT: 10.514 min Scan# 1798
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:104 Resp: 419123

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.1	57.1

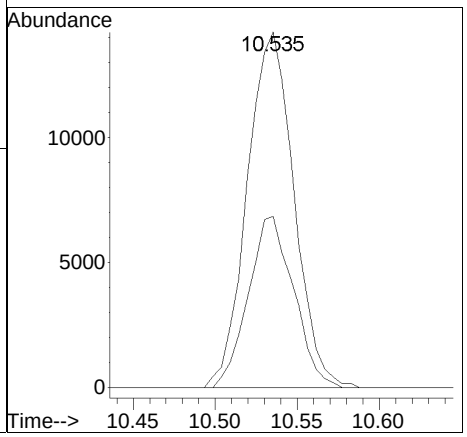


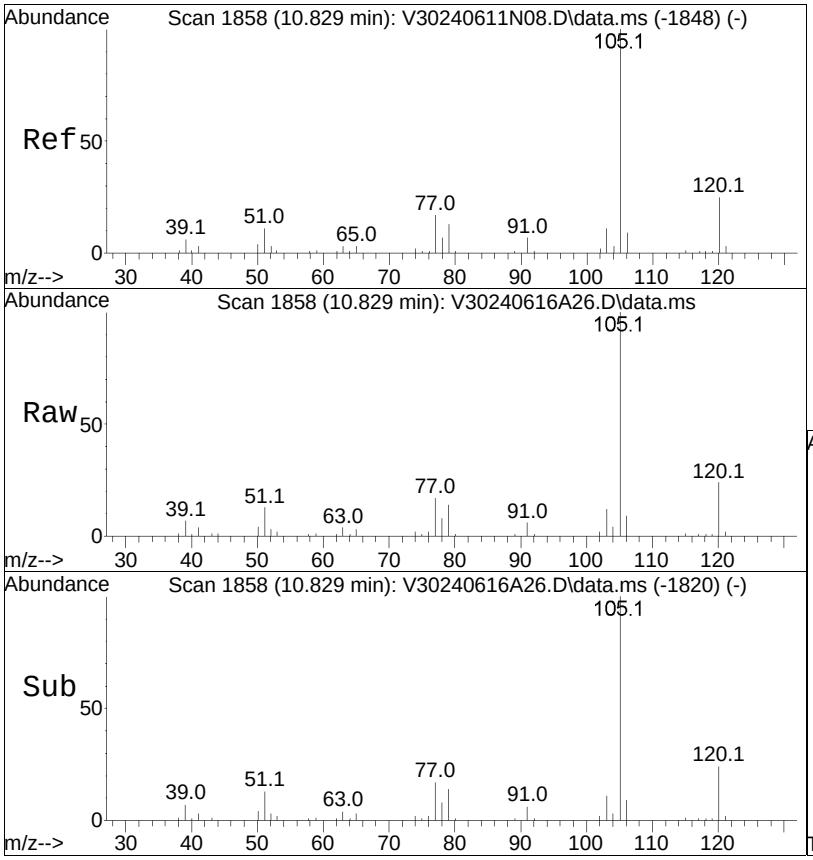


#85
Bromoform
Concen: 8.07 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:173 Resp: 28131

Ion	Ratio	Lower	Upper
173	100		
175	46.6	37.8	56.6

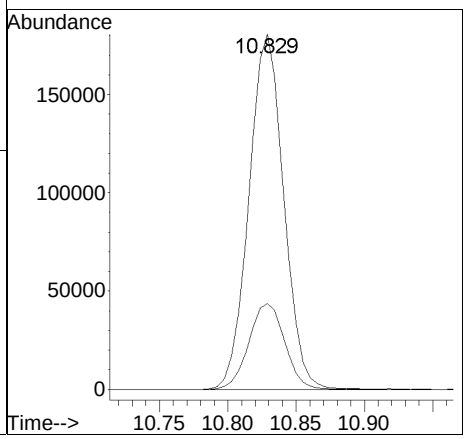


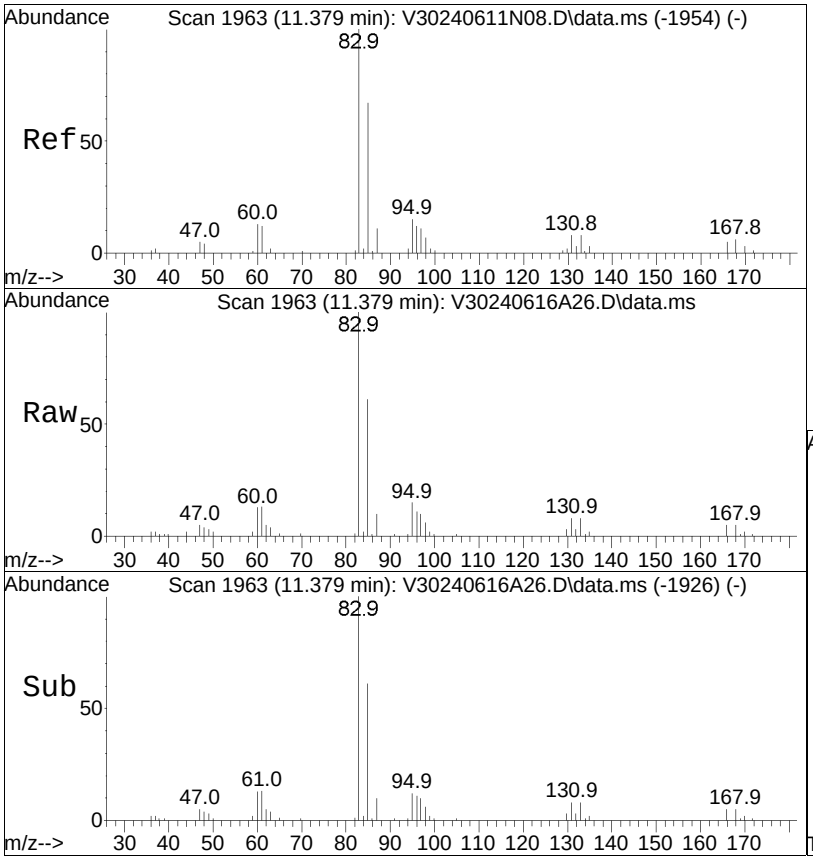


#87
Isopropylbenzene
Concen: 9.96 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:105 Resp: 319363

Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.0	30.0

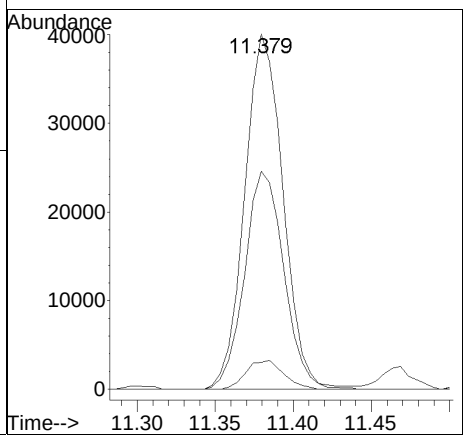


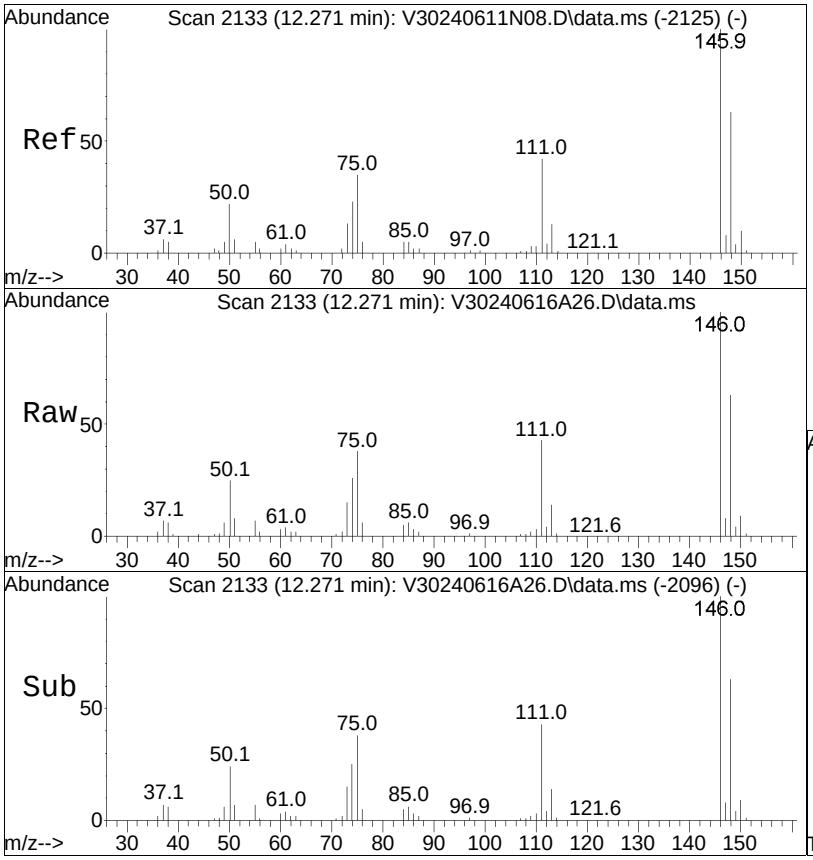


#92
1,1,2,2-Tetrachloroethane
Concen: 9.55 ug/L
RT: 11.379 min Scan# 1963
Delta R.T. -0.006 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion: 83 Resp: 68293

Ion	Ratio	Lower	Upper
83	100		
131	8.1	6.6	10.0
85	63.4	51.8	77.6

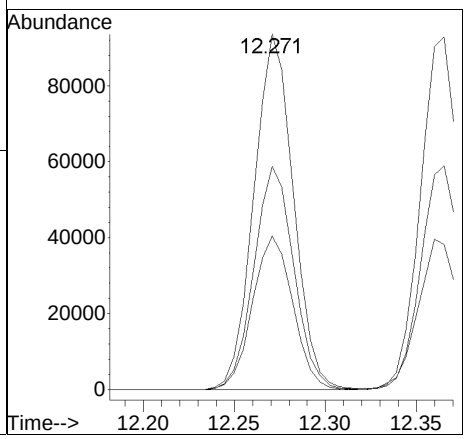


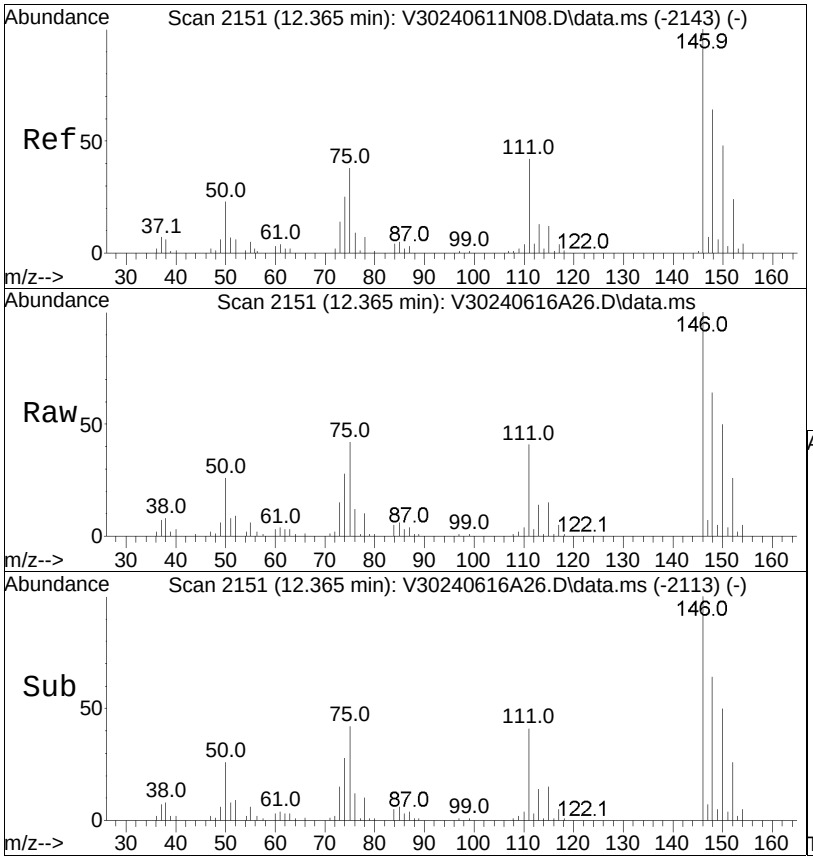


#105
1,3-Dichlorobenzene
Concen: 9.11 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:146 Resp: 140930

Ion	Ratio	Lower	Upper
146	100		
111	44.1	28.0	58.1
148	63.3	40.8	84.6

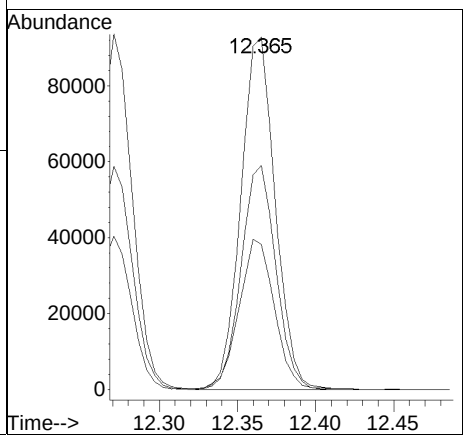


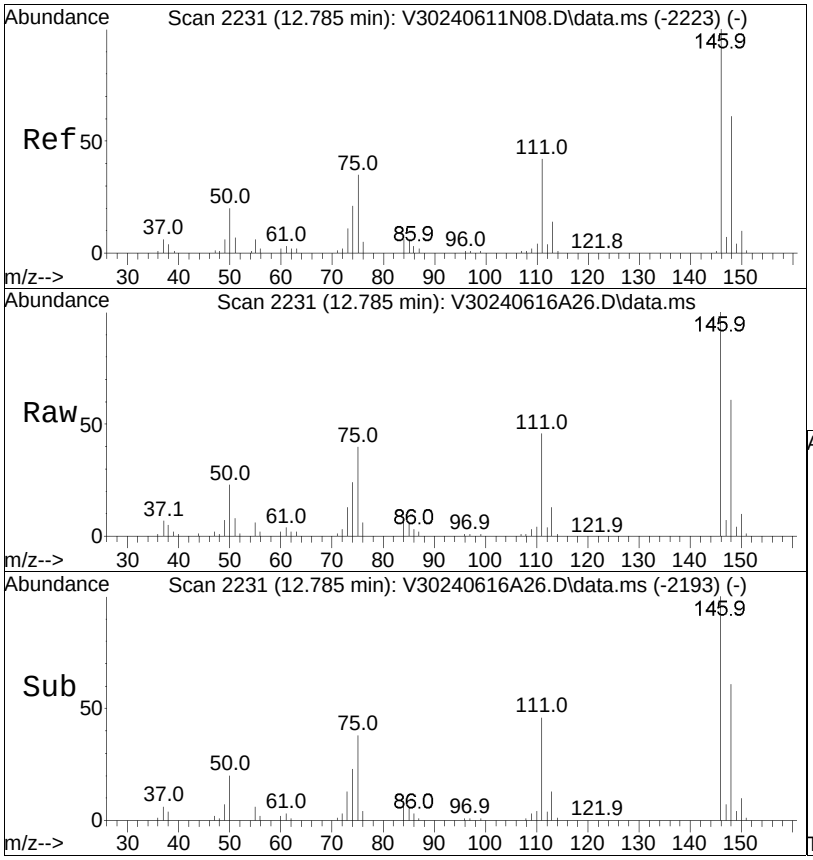


#106
1,4-Dichlorobenzene
Concen: 8.95 ug/L
RT: 12.365 min Scan# 2151
Delta R.T. 0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:146 Resp: 142334

Ion	Ratio	Lower	Upper
146	100		
111	43.8	33.7	50.5
148	64.4	50.8	76.2

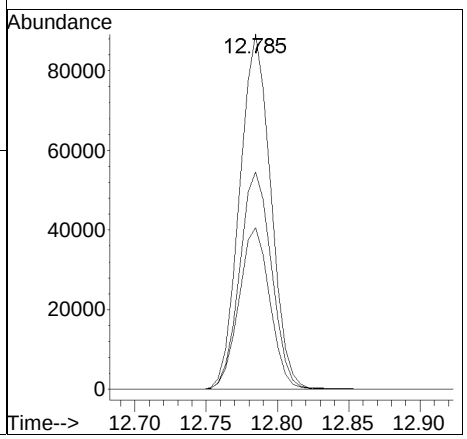


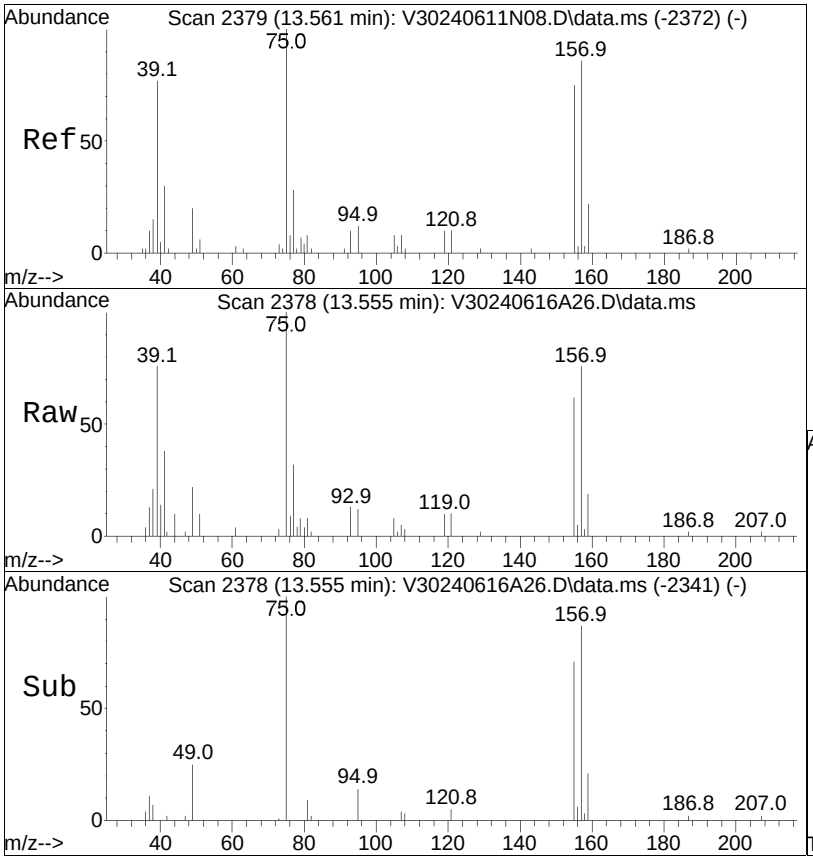


#109
1,2-Dichlorobenzene
Concen: 9.21 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:146 Resp: 135915

Ion	Ratio	Lower	Upper
146	100		
111	45.3	29.5	61.3
148	62.5	41.3	85.9

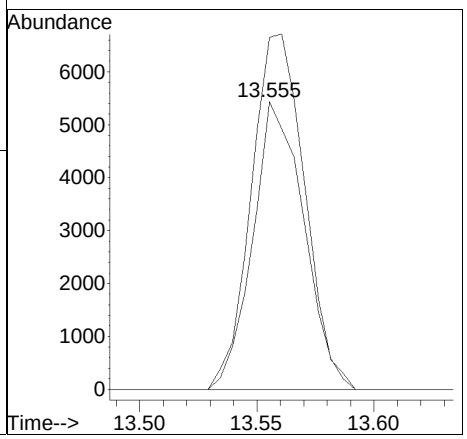


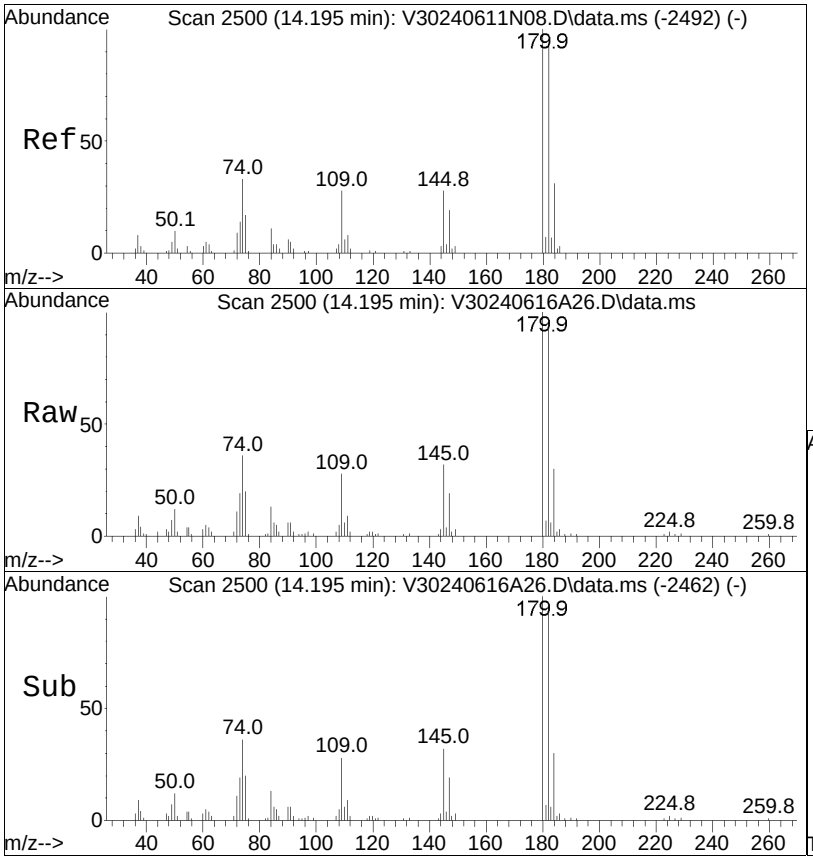


#111
1,2-Dibromo-3-chloropropane
Concen: 8.45 ug/L
RT: 13.555 min Scan# 2378
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:155 Resp: 8243

Ion	Ratio	Lower	Upper
155	100		
157	128.9	105.1	157.7

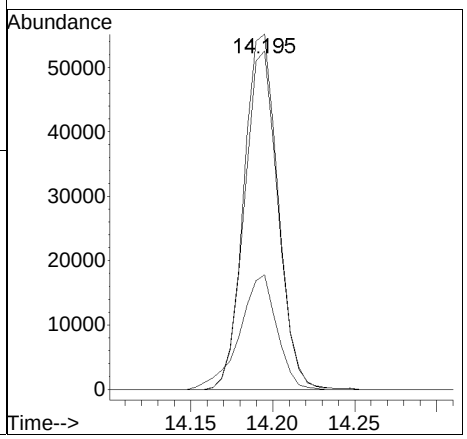


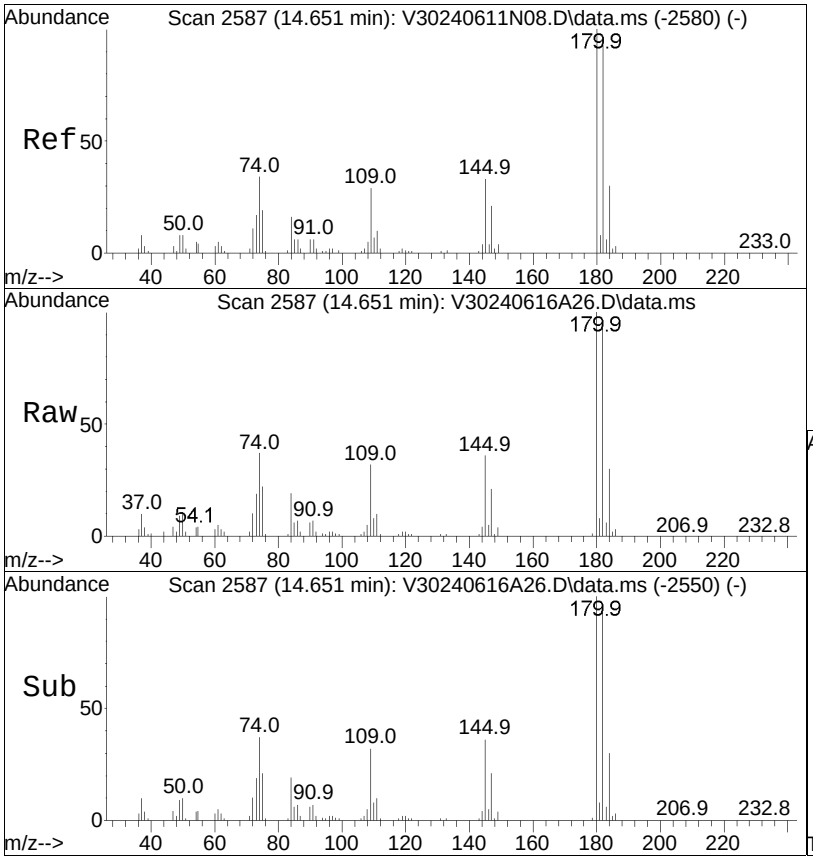


#114
1,2,4-Trichlorobenzene
Concen: 8.43 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. -0.000 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:180 Resp: 80013

Ion	Ratio	Lower	Upper
180	100		
182	93.8	75.7	113.5
145	35.0	27.4	41.2

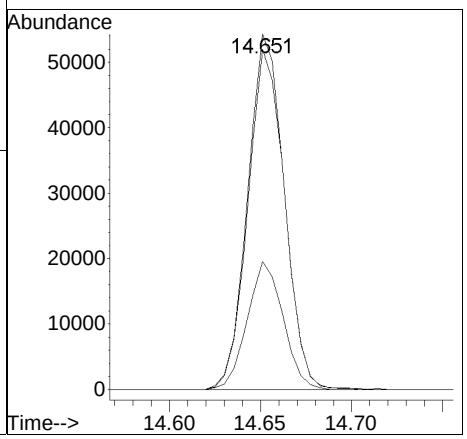




#116
1,2,3-Trichlorobenzene
Concen: 8.62 ug/L
RT: 14.651 min Scan# 2587
Delta R.T. -0.005 min
Lab File: V30240616A26.D
Acq: 16 Jun 2024 04:30 pm

Tgt Ion:180 Resp: 75834

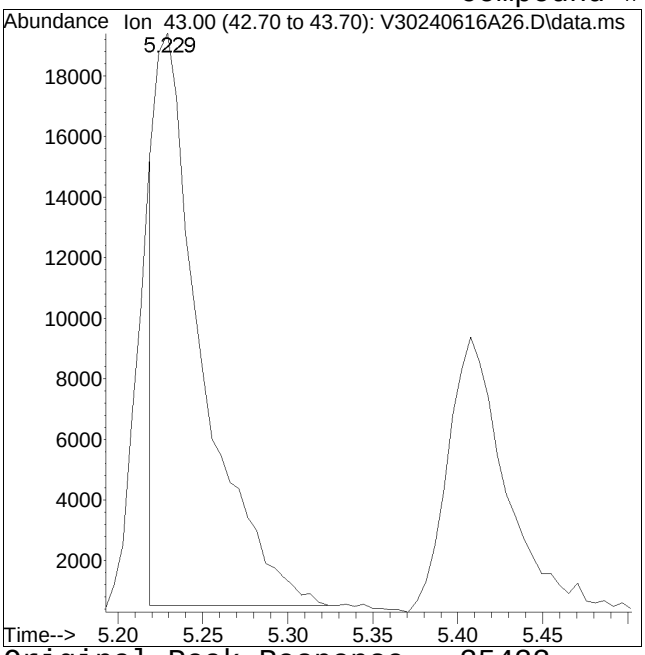
Ion	Ratio	Lower	Upper
180	100		
182	96.1	74.9	112.3
145	35.2	26.0	39.0

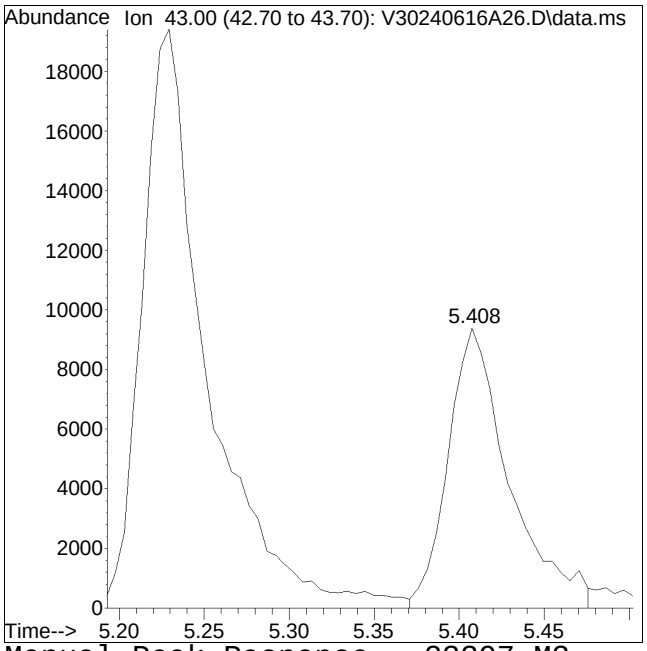


Manual Integration Report

Data Path : K:\VOA130\2024\240616A\ QMethod : V130_240611N_8260D.m
Data File : V30240616A26.D Operator : VOA130:MJV
Date Inj'd : 6/16/2024 4:30 pm Instrument : VOA130
Sample : WG1935824-6,31,10,10,,a1 Quant Date : 6/18/2024 9:14 am

Compound #42: 2-Butanone





Original Peak Response = 35433 Manual Peak Response = 23397 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A27.D
Acq On : 16 Jun 2024 04:52 pm
Operator : VOA130:MJV
Sample : WG1935824-7,31,10,10,,a2
Misc : WG1935824,ICAL21186
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 18 09:33:08 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.110	96	390758	10.000	ug/L	0.00
Standard Area 1 = 452669			Recovery = 86.32%			
63) Chlorobenzene-d5	9.665	117	308901	10.000	ug/L	0.00
Standard Area 1 = 333131			Recovery = 92.73%			
84) 1,4-Dichlorobenzene-d4	12.349	152	170649	10.000	ug/L	0.00
Standard Area 1 = 181690			Recovery = 93.92%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.297	113	116146	10.560	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.60%			
47) 1,2-Dichloroethane-d4	5.822	65	155680	11.752	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.52%			
64) Toluene-d8	7.814	98	410820	9.879	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.79%			
88) 4-Bromofluorobenzene	11.144	95	168563	10.616	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	95349	11.459	ug/L	98
3) Chloromethane	1.868	50	129531	12.383	ug/L	98
4) Vinyl chloride	1.947	62	119348	12.659	ug/L	98
5) Bromomethane	2.267	94	50260	10.796	ug/L	96
6) Chloroethane	2.382	64	71261	11.951	ug/L	100
7) Trichlorofluoromethane	2.529	101	132441	12.513	ug/L	100
10) 1,1-Dichloroethene	3.027	96	76341	11.767	ug/L	98
11) Carbon disulfide	3.053	76	248161	11.685	ug/L	99
12) Freon-113	3.069	101	68737	10.699	ug/L	98
15) Methylene chloride	3.588	84	97820	11.193	ug/L	99
17) Acetone	3.620	43	20820	12.000	ug/L	96
18) trans-1,2-Dichloroethene	3.740	96	81798	11.422	ug/L	97
19) Methyl acetate	3.745	43	44219	9.977	ug/L #	93
21) Methyl tert-butyl ether	3.840	73	151744	9.723	ug/L	96
25) 1,1-Dichloroethane	4.327	63	196462	12.253	ug/L	99
30) cis-1,2-Dichloroethene	4.852	96	92002	11.200	ug/L	96
33) Bromochloromethane	5.046	128	38609	10.819	ug/L	92
34) Cyclohexane	5.062	56	148596	11.329	ug/L	97
35) Chloroform	5.119	83	168009	11.733	ug/L	97
37) Carbon tetrachloride	5.256	117	107276	12.470	ug/L	89

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A27.D
Acq On : 16 Jun 2024 04:52 pm
Operator : VOA130:MJV
Sample : WG1935824-7,31,10,10,,a2
Misc : WG1935824,ICAL21186
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 18 09:33:08 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA130\2024\240616A\V30240616A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.324	97	131538	12.098	ug/L		98
42) 2-Butanone	5.413	43	24668	10.229	ug/L		91
45) Benzene	5.696	78	323083	11.187	ug/L		99
48) 1,2-Dichloroethane	5.890	62	116024	11.551	ug/L	#	98
51) Methyl cyclohexane	6.288	83	95508	9.059	ug/L		99
52) Trichloroethene	6.294	95	72948	10.498	ug/L		99
55) 1,2-Dichloropropane	6.834	63	87373	10.818	ug/L		98
58) Bromodichloromethane	6.907	83	110711	10.861	ug/L		99
62) cis-1,3-Dichloropropene	7.604	75	103261	9.760	ug/L		90
65) Toluene	7.872	92	194227	10.318	ug/L		99
66) 4-Methyl-2-pentanone	8.307	58	17296	9.471	ug/L		96
67) Tetrachloroethene	8.323	166	59808	9.529	ug/L		97
69) trans-1,3-Dichloropropene	8.354	75	91579	9.579	ug/L	#	84
72) 1,1,2-Trichloroethane	8.538	83	46569	9.394	ug/L		99
73) Chlorodibromomethane	8.753	129	56291	8.747	ug/L		99
75) 1,2-Dibromoethane	9.031	107	49045	9.191	ug/L		100
77) 2-Hexanone	9.319	43	32640	9.557	ug/L		98
78) Chlorobenzene	9.686	112	194003	9.969	ug/L	#	82
79) Ethylbenzene	9.723	91	381341	10.747	ug/L		99
81) p/m Xylene	9.911	106	286678	21.197	ug/L		99
82) o Xylene	10.446	106	271314	20.876	ug/L		98
83) Styrene	10.509	104	451108	20.960	ug/L		100
85) Bromoform	10.535	173	29409	8.247	ug/L		93
87) Isopropylbenzene	10.829	105	349241	10.651	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.379	83	73248	10.013	ug/L		100
105) 1,3-Dichlorobenzene	12.271	146	152668	9.650	ug/L		99
106) 1,4-Dichlorobenzene	12.360	146	153888	9.463	ug/L		99
109) 1,2-Dichlorobenzene	12.785	146	146283	9.687	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.561	155	8971	8.990	ug/L		95
114) 1,2,4-Trichlorobenzene	14.195	180	85694	8.822	ug/L		99
116) 1,2,3-Trichlorobenzene	14.651	180	82846	9.209	ug/L		99

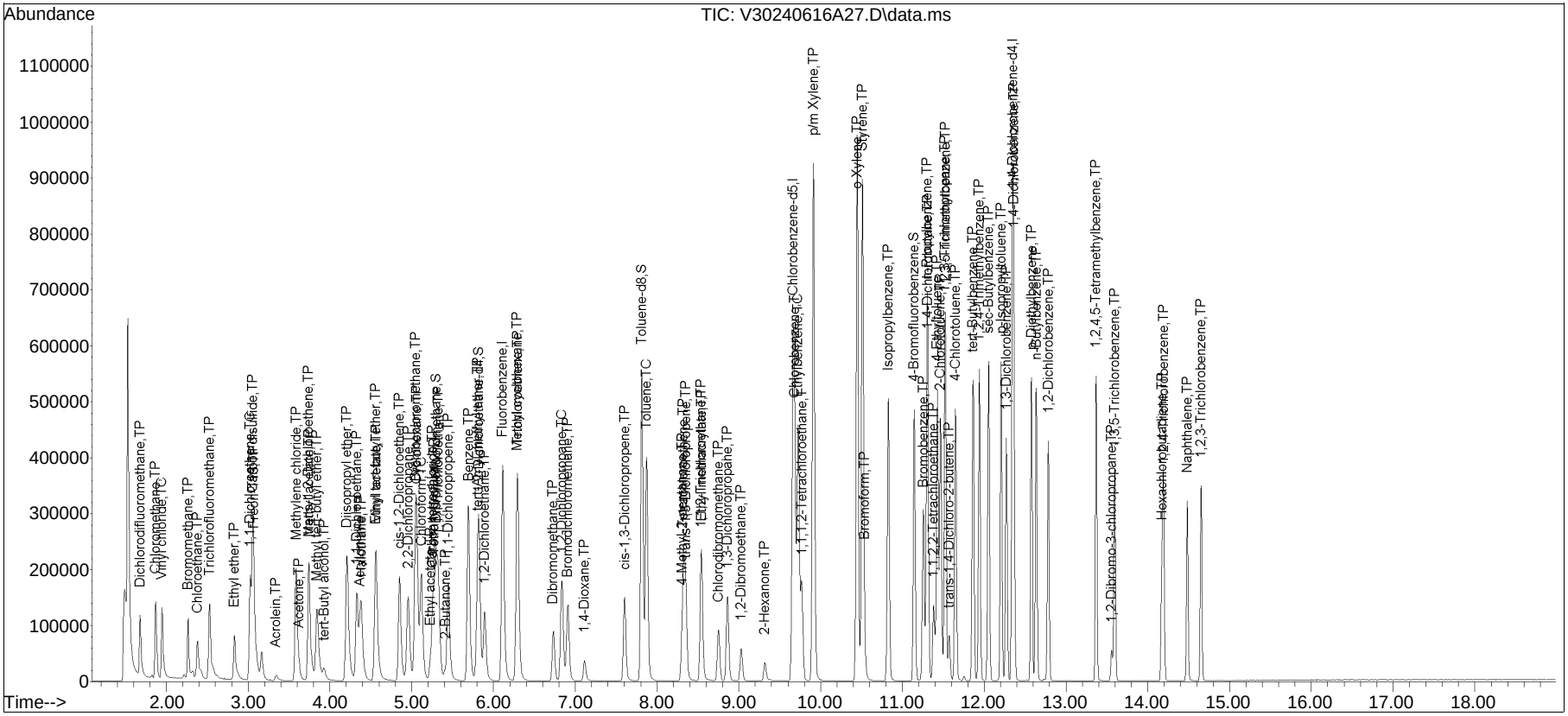
(#) = qualifier out of range (m) = manual integration (+) = signals summed

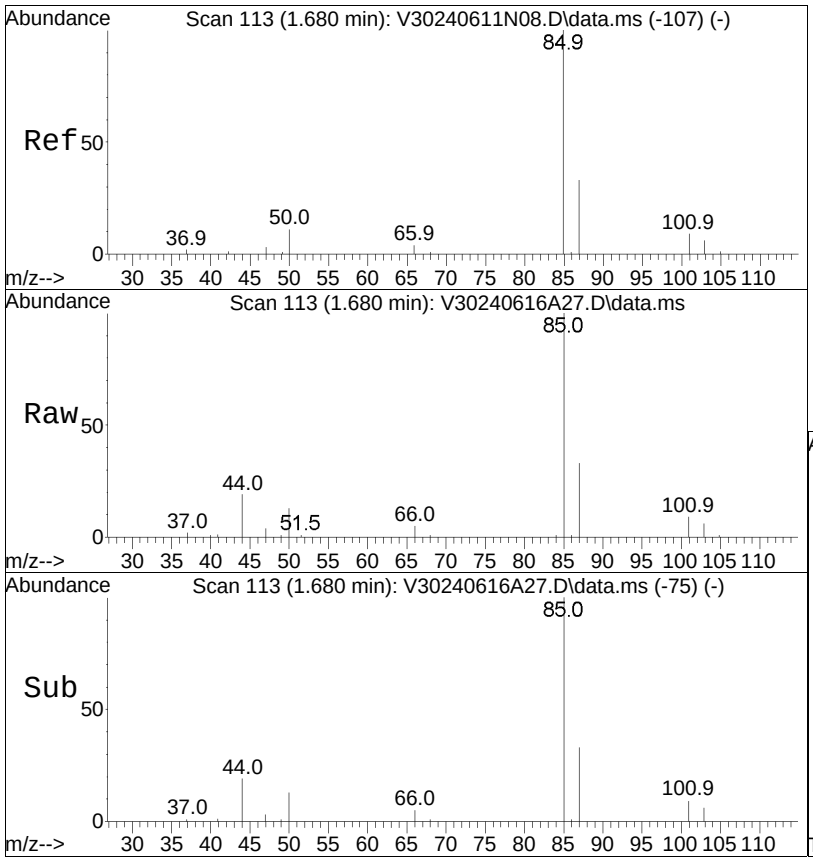
Quantitation Report (QT Reviewed)

Data Path : K:\VOA130\2024\240616A\
Data File : V30240616A27.D
Acq On : 16 Jun 2024 04:52 pm
Operator : VOA130:MJV
Sample : WG1935824-7,31,10,10,,a2
Misc : WG1935824,ICAL21186
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 18 09:33:08 2024
Quant Method : K:\VOA130\2024\240616A\V130_240611N_8260D.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 12 10:16:28 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODOD•

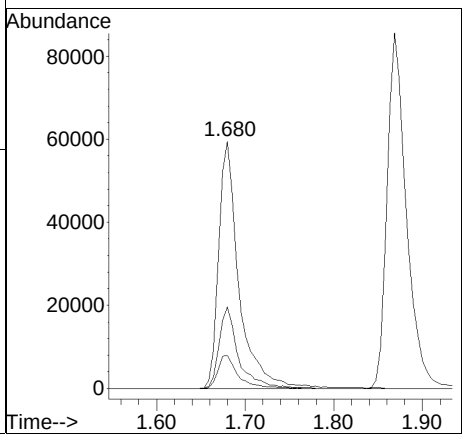


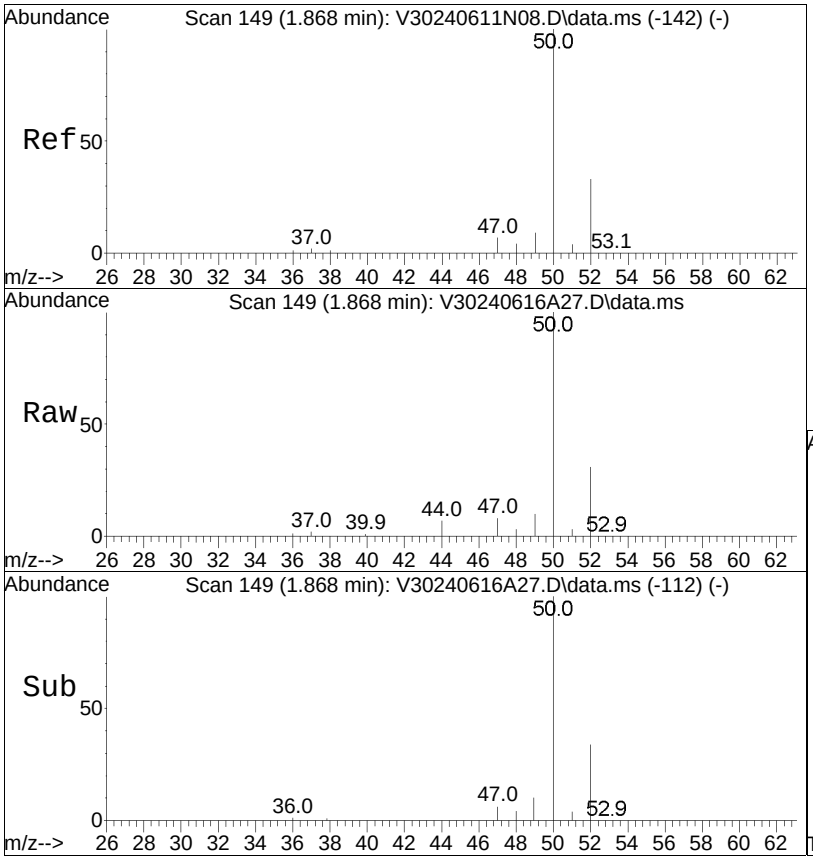


#2
Dichlorodifluoromethane
Concen: 11.46 ug/L
RT: 1.680 min Scan# 113
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 85 Resp: 95349

Ion	Ratio	Lower	Upper
85	100		
87	31.3	20.2	42.0
50	13.2	10.1	20.9

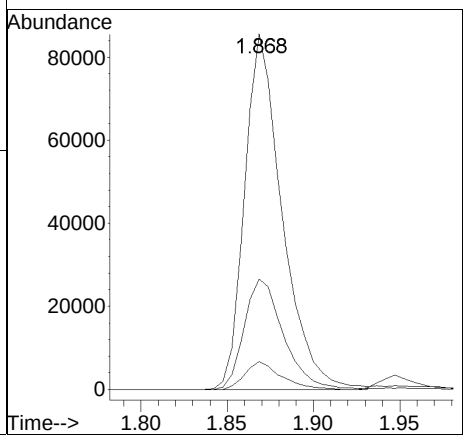


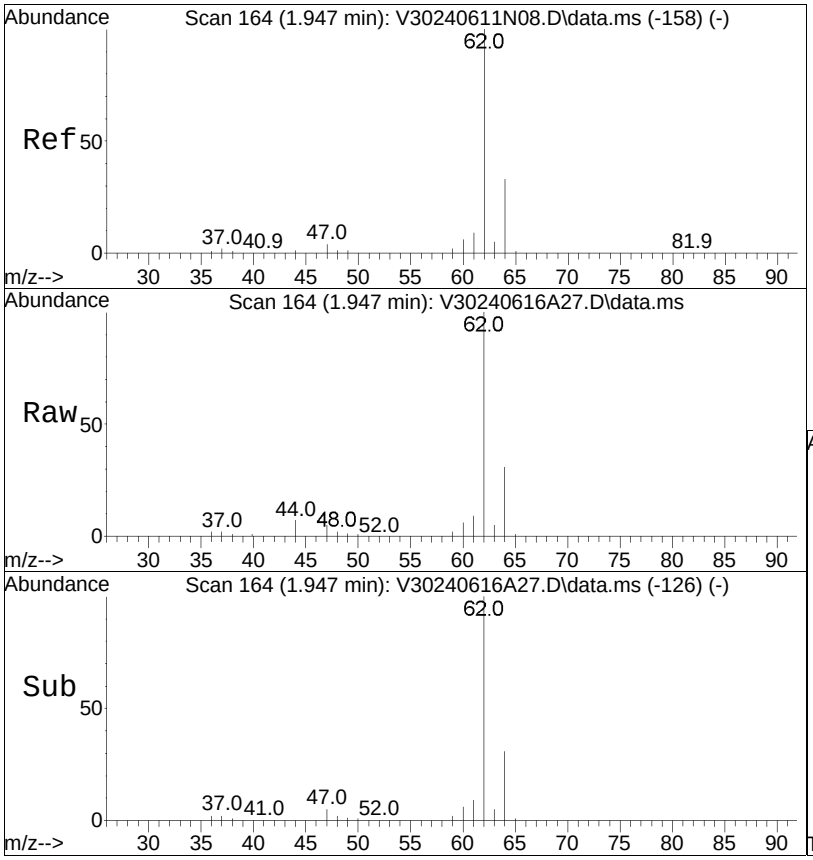


#3
Chloromethane
Concen: 12.38 ug/L
RT: 1.868 min Scan# 149
Delta R.T. -0.006 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 50 Resp: 129531

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.1	37.7
47	7.5	6.5	9.7

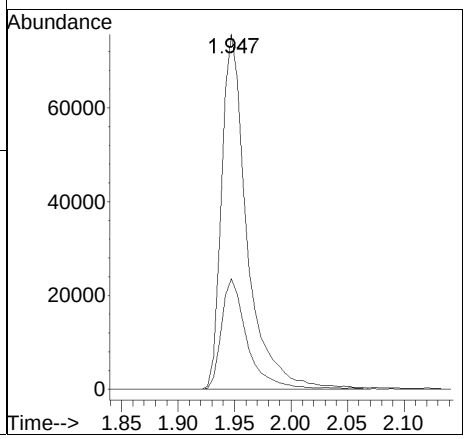


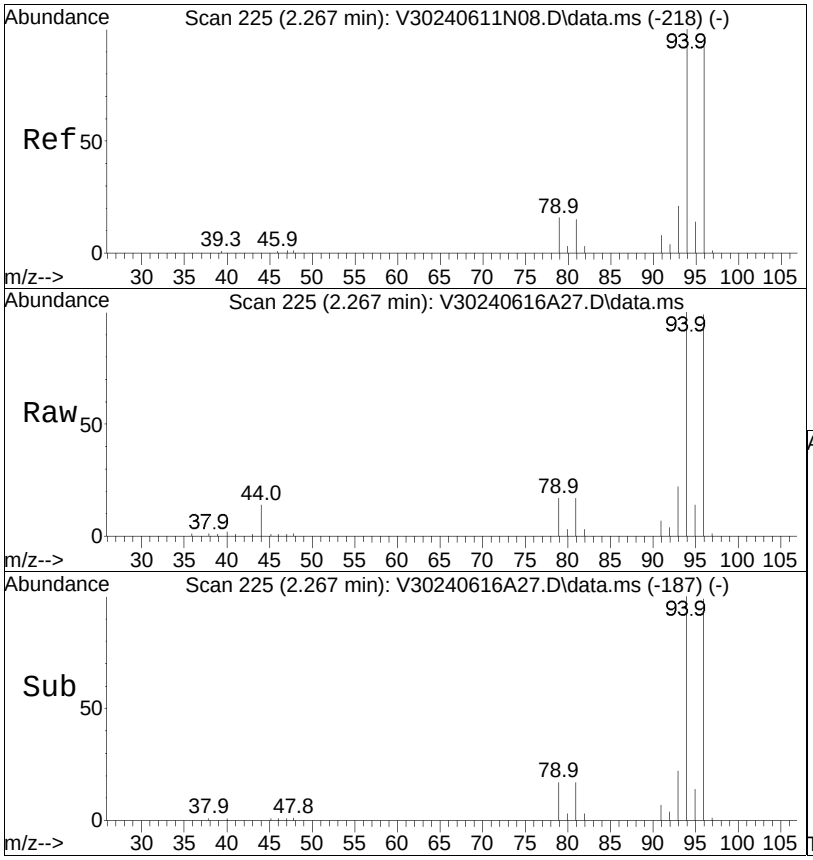


#4
Vinyl chloride
Concen: 12.66 ug/L
RT: 1.947 min Scan# 164
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 62 Resp: 119348

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.7	38.5

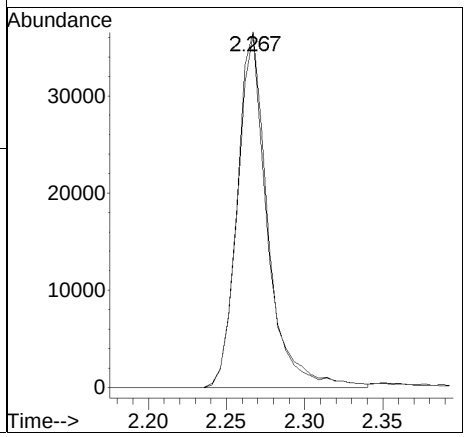


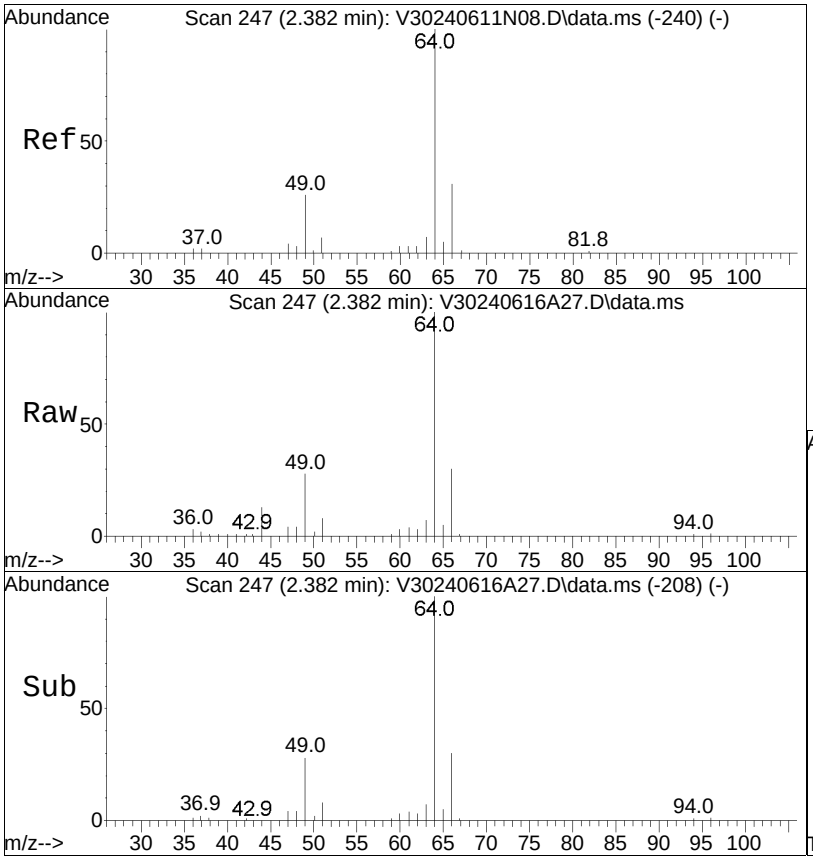


#5
Bromomethane
Concen: 10.80 ug/L
RT: 2.267 min Scan# 225
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 94 Resp: 50260

Ion	Ratio	Lower	Upper
94	100		
96	95.5	73.7	110.5

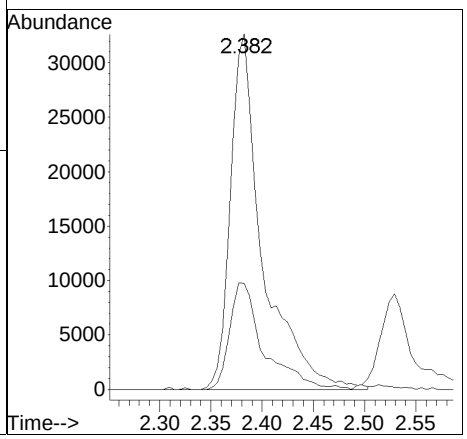


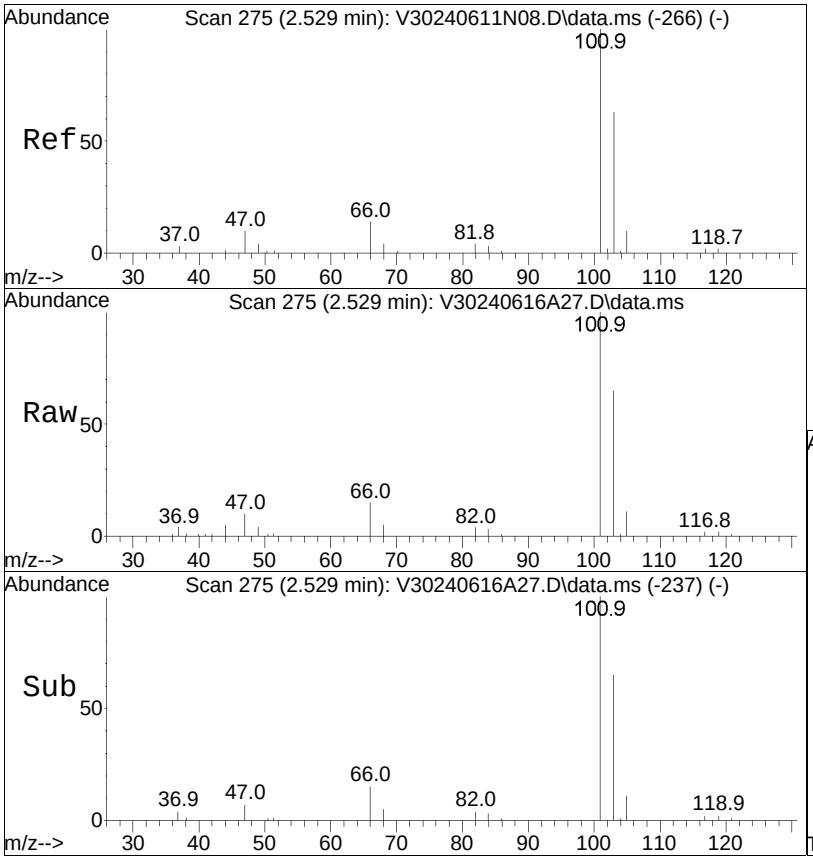


#6
Chloroethane
Concen: 11.95 ug/L
RT: 2.382 min Scan# 247
Delta R.T. 0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 64 Resp: 71261

Ion	Ratio	Lower	Upper
64	100		
66	31.7	25.3	37.9

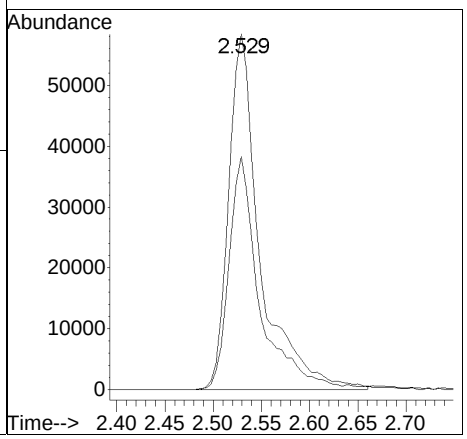


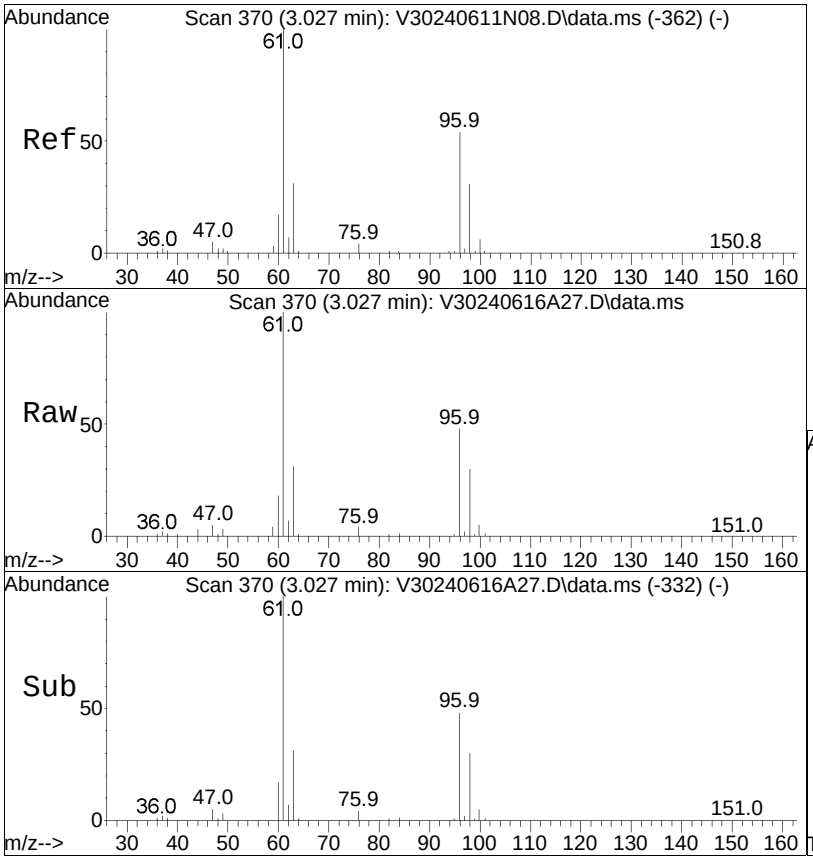


#7
Trichlorofluoromethane
Concen: 12.51 ug/L
RT: 2.529 min Scan# 275
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:101 Resp: 132441

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.0	76.4

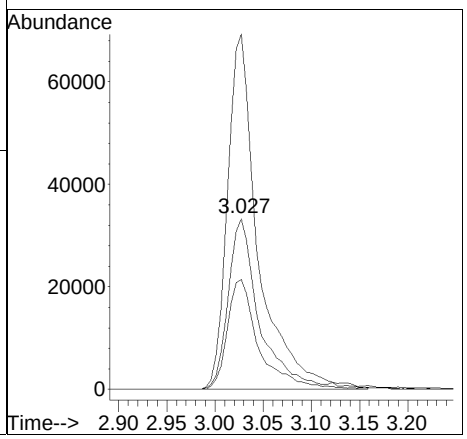


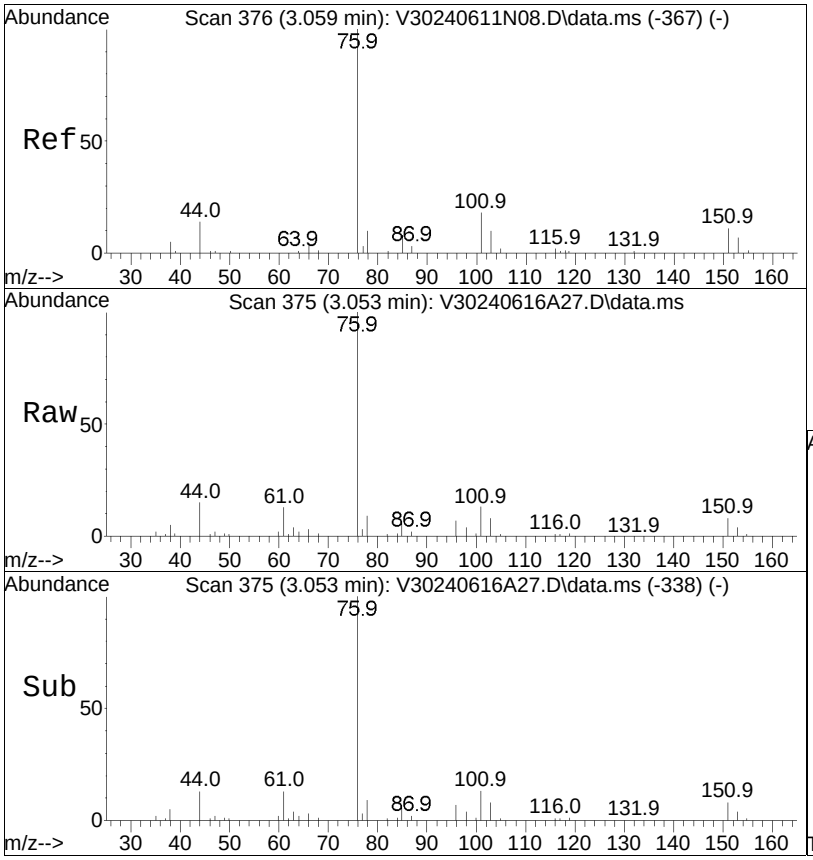


#10
1,1-Dichloroethene
Concen: 11.77 ug/L
RT: 3.027 min Scan# 370
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 96 Resp: 76341

Ion	Ratio	Lower	Upper
96	100		
61	202.3	165.5	248.3
63	64.3	51.9	77.9

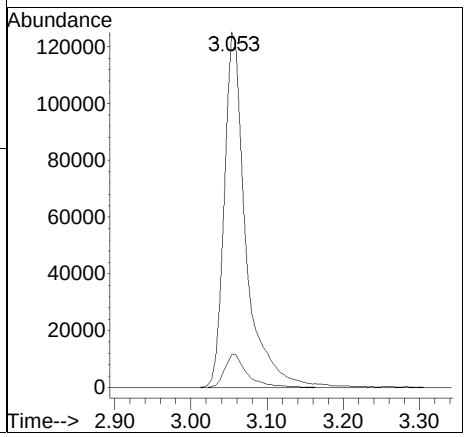


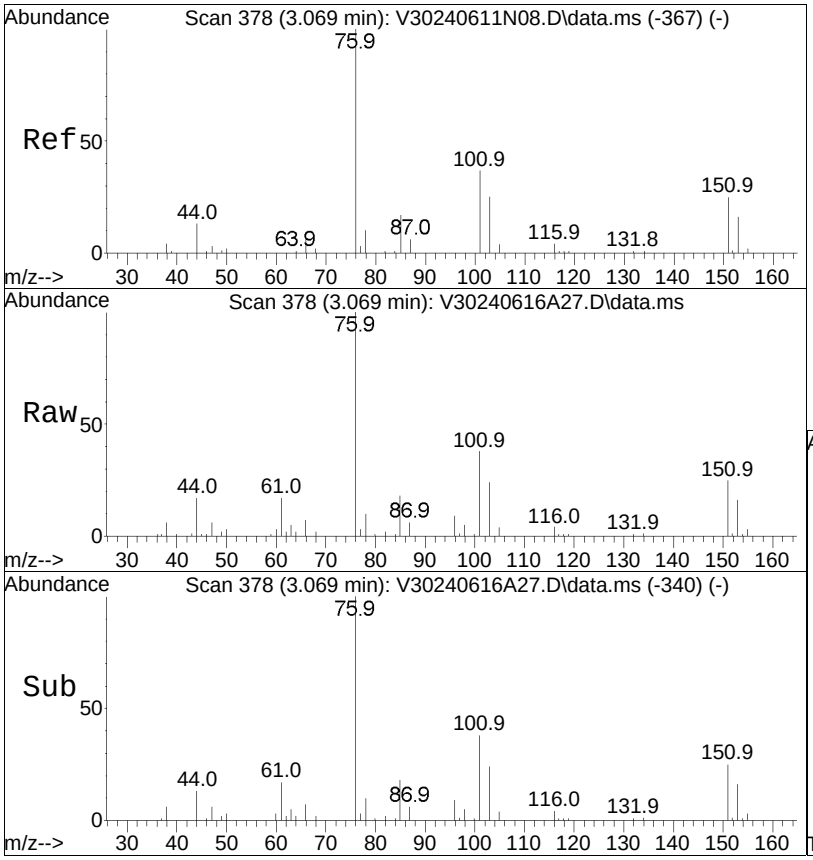


#11
Carbon disulfide
Concen: 11.68 ug/L
RT: 3.053 min Scan# 375
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 76 Resp: 248161

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.4	13.4

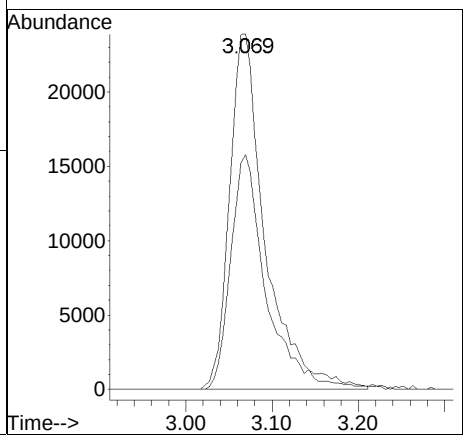


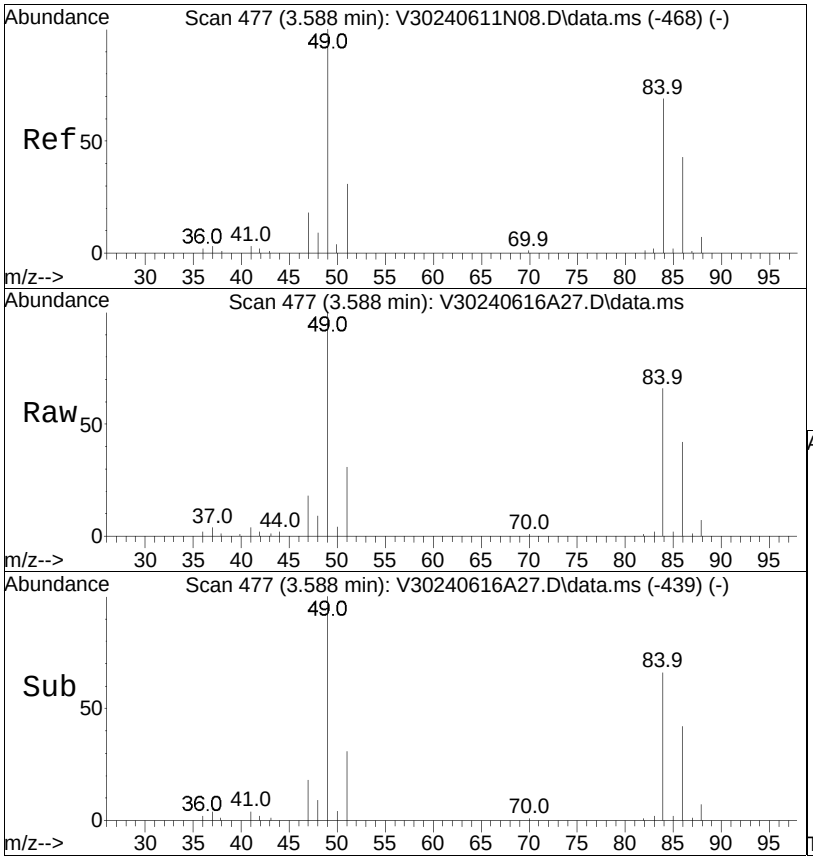


#12
Freon-113
Concen: 10.70 ug/L
RT: 3.069 min Scan# 378
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:101 Resp: 68737

Ion	Ratio	Lower	Upper
101	100		
151	66.1	51.9	77.9

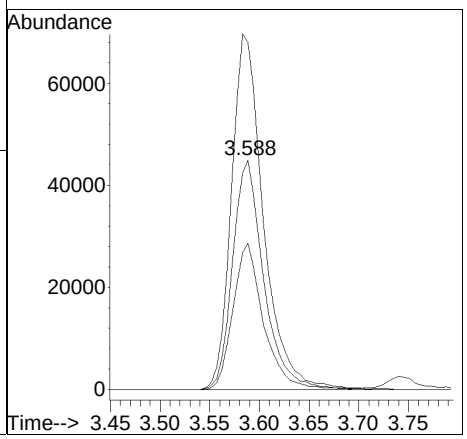


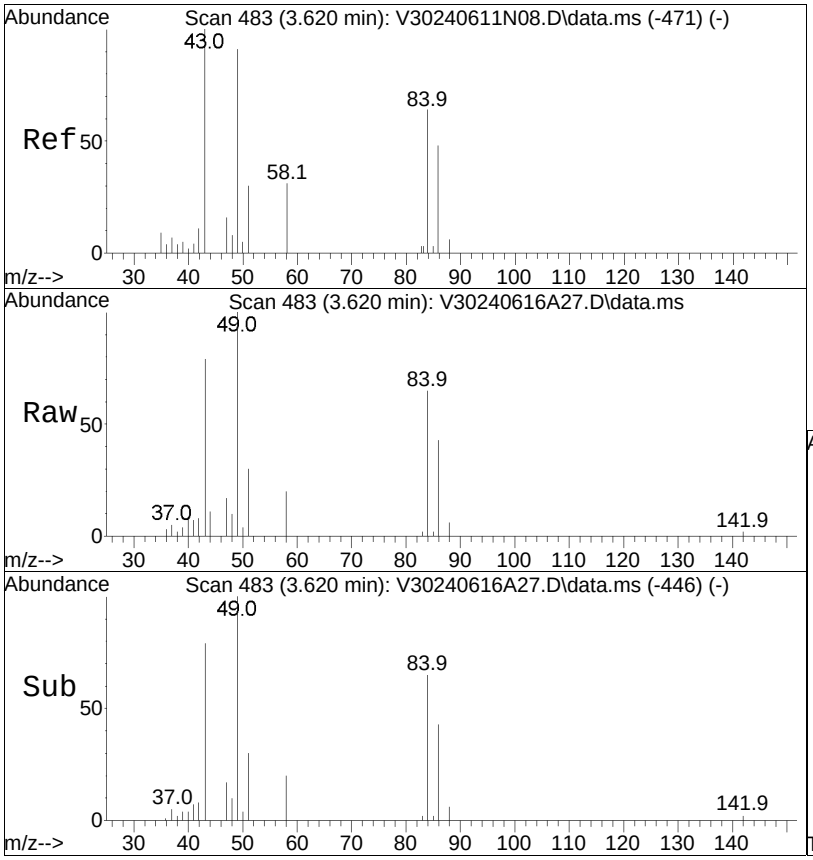


#15
Methylene chloride
Concen: 11.19 ug/L
RT: 3.588 min Scan# 477
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 84 Resp: 97820

Ion	Ratio	Lower	Upper
84	100		
86	62.2	41.7	86.5
49	159.1	103.9	215.9

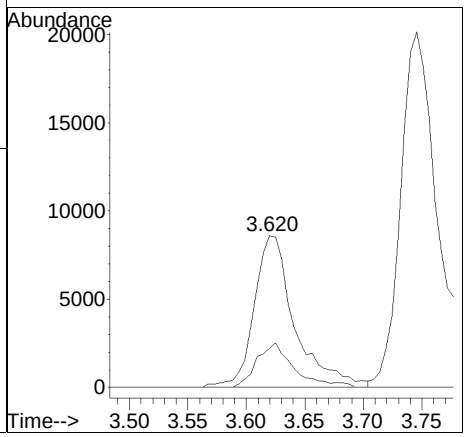


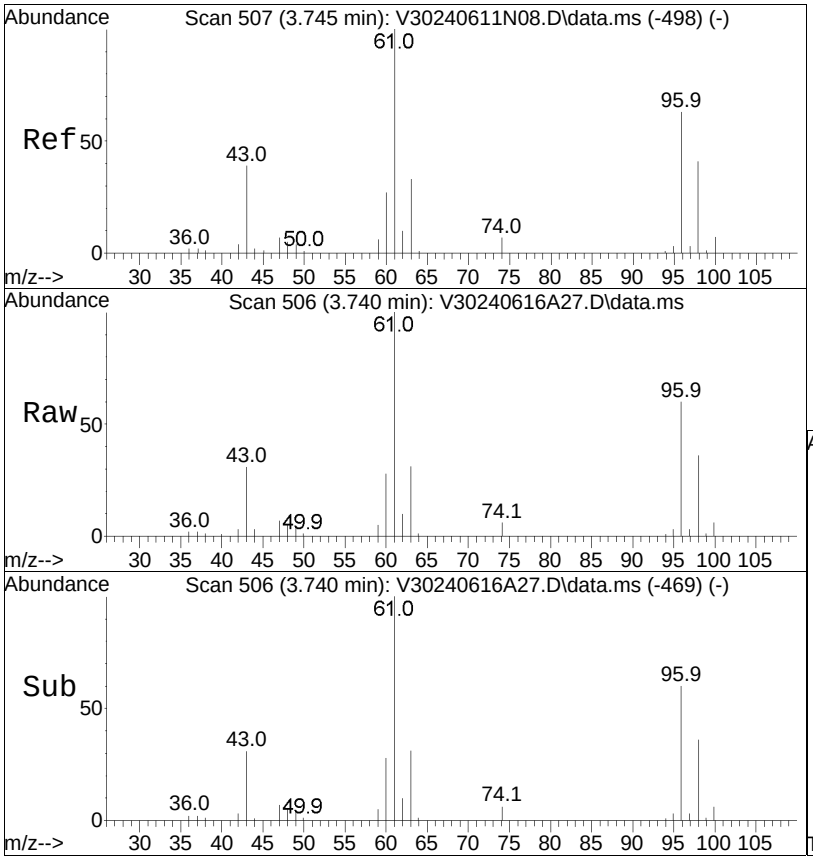


#17
Acetone
Concen: 12.00 ug/L
RT: 3.620 min Scan# 483
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 43 Resp: 20820

Ion	Ratio	Lower	Upper
43	100		
58	26.9	20.1	30.1

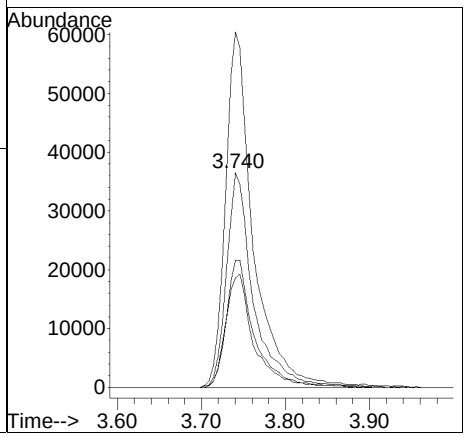


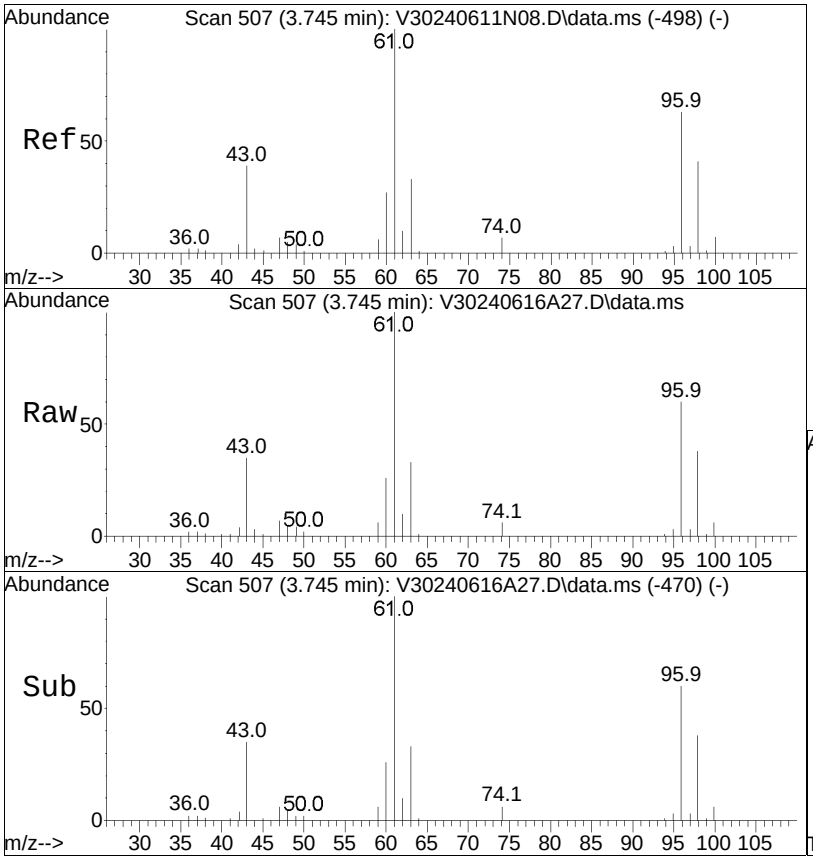


#18
trans-1,2-Dichloroethene
Concen: 11.42 ug/L
RT: 3.740 min Scan# 506
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 96 Resp: 81798

Ion	Ratio	Lower	Upper
96	100		
61	169.6	113.6	236.0
98	61.7	40.8	84.8
63	54.9	36.5	75.7

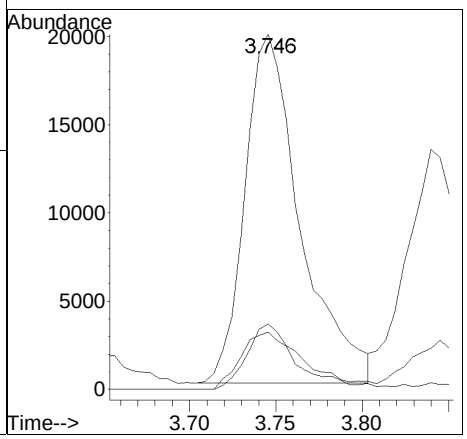


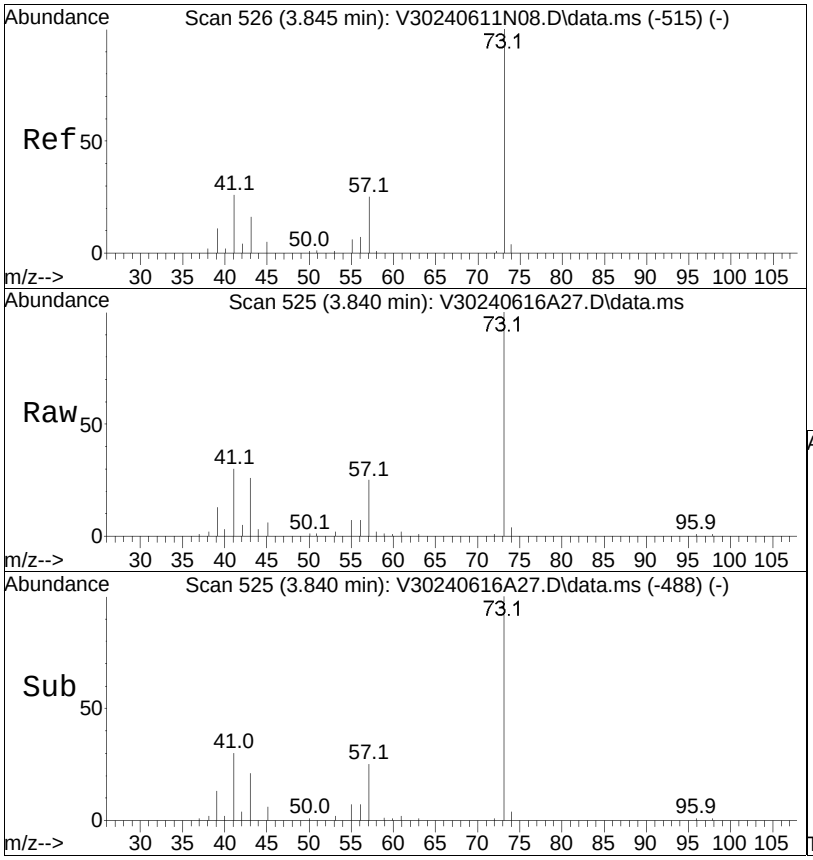


#19
Methyl acetate
Concen: 9.98 ug/L
RT: 3.745 min Scan# 507
Delta R.T. -0.006 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 43 Resp: 44219

Ion	Ratio	Lower	Upper
43	100		
74	18.8	14.6	22.0
59	17.5	9.3	13.9#

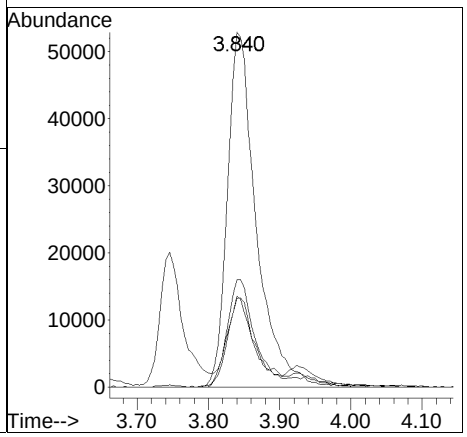


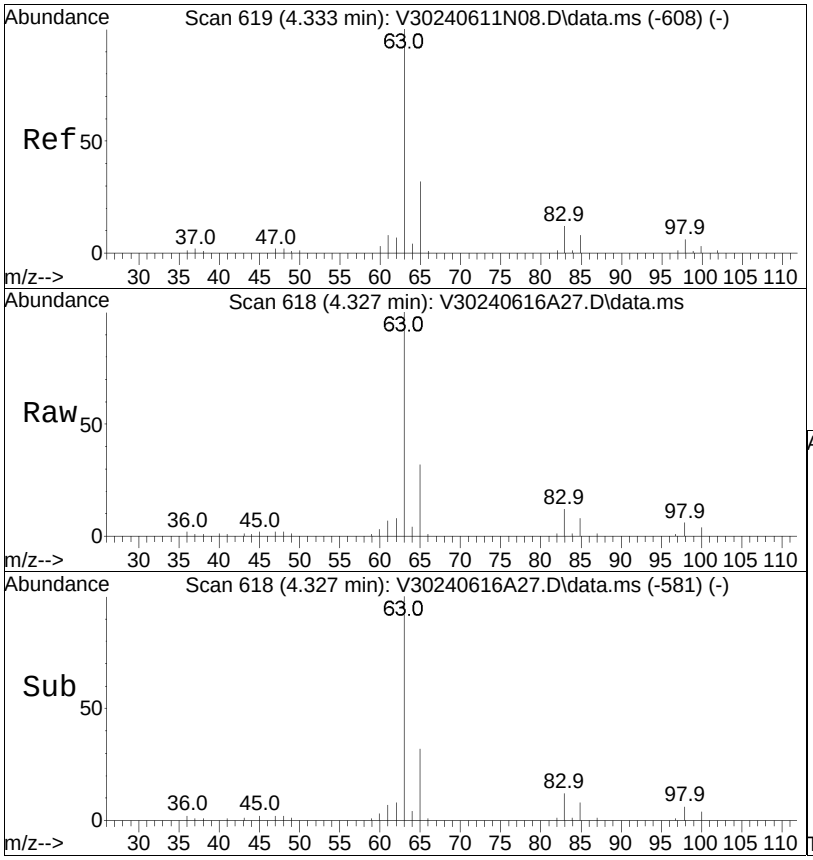


#21
Methyl tert-butyl ether
Concen: 9.72 ug/L
RT: 3.840 min Scan# 525
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 73 Resp: 151744

Ion	Ratio	Lower	Upper
73	100		
57	24.0	15.5	32.1
43	22.8	16.6	34.6
41	28.9	17.2	35.6

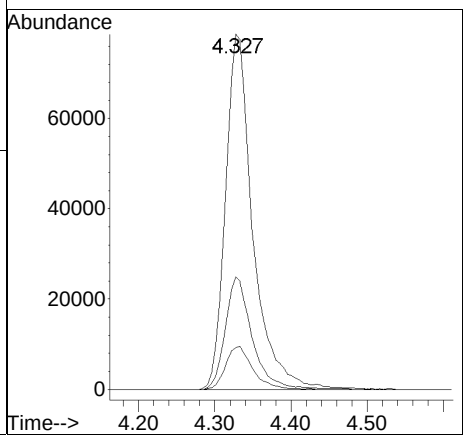


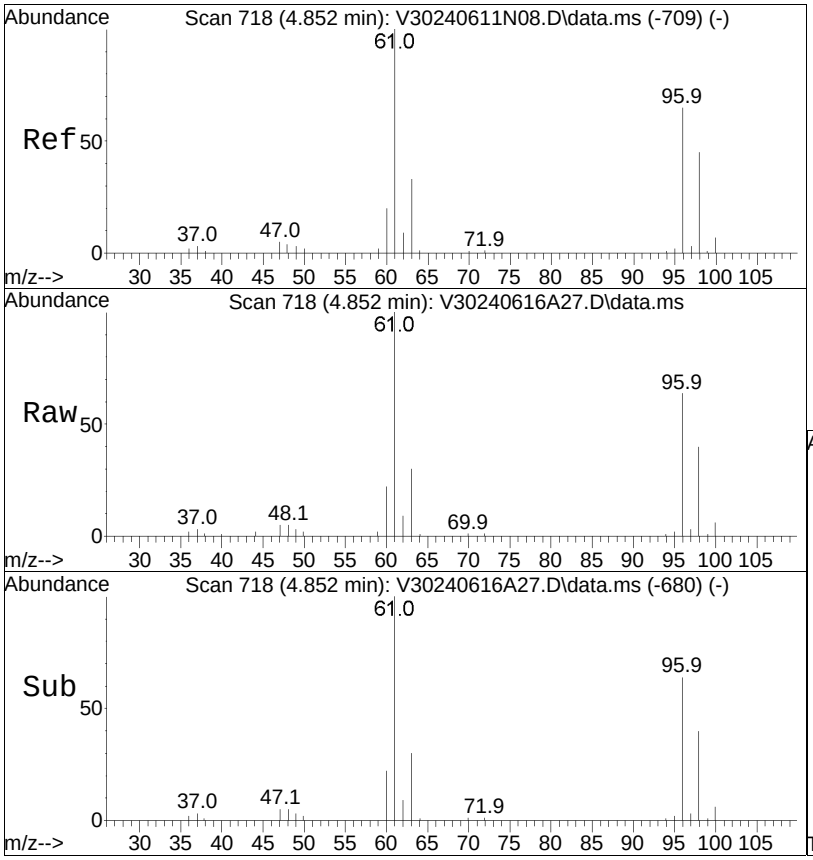


#25
1,1-Dichloroethane
Concen: 12.25 ug/L
RT: 4.327 min Scan# 618
Delta R.T. -0.006 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 63 Resp: 196462

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.5	36.7
83	12.0	8.9	13.3

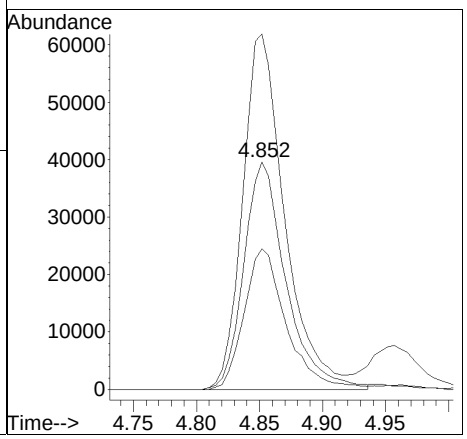


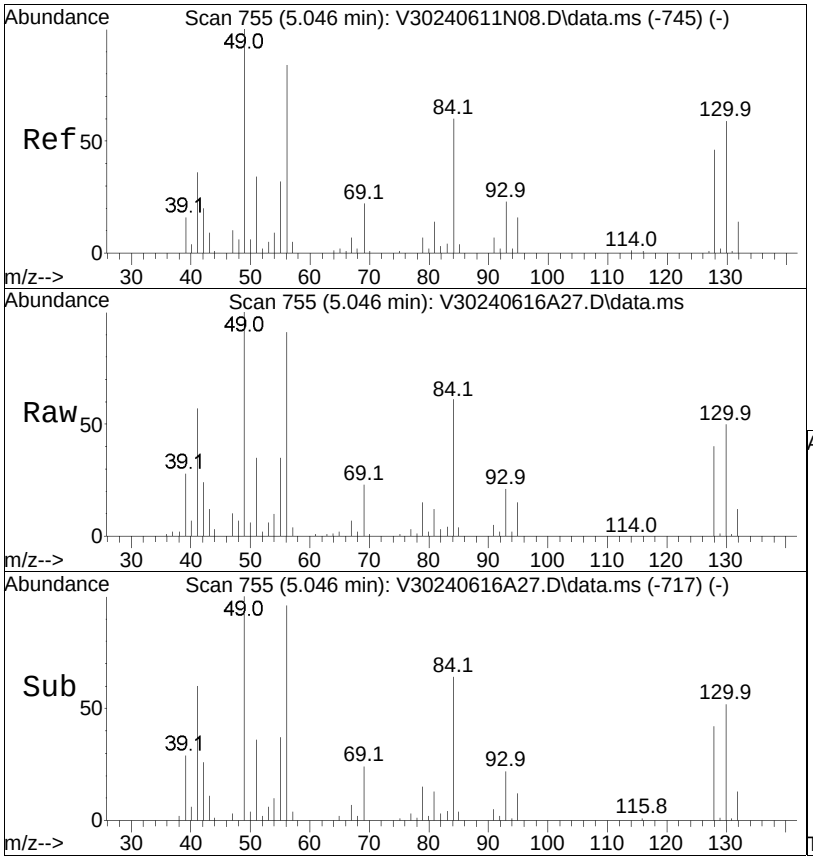


#30
cis-1,2-Dichloroethene
Concen: 11.20 ug/L
RT: 4.852 min Scan# 718
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 96 Resp: 92002

Ion	Ratio	Lower	Upper
96	100		
61	155.7	129.3	193.9
98	61.7	51.4	77.2

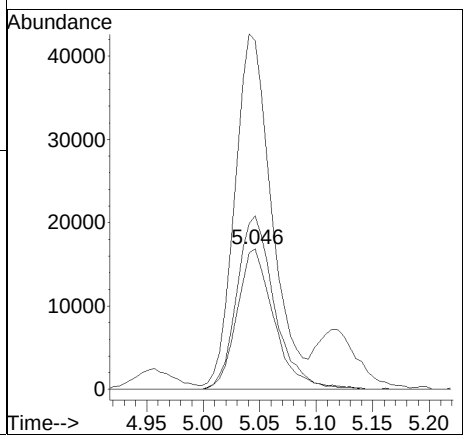


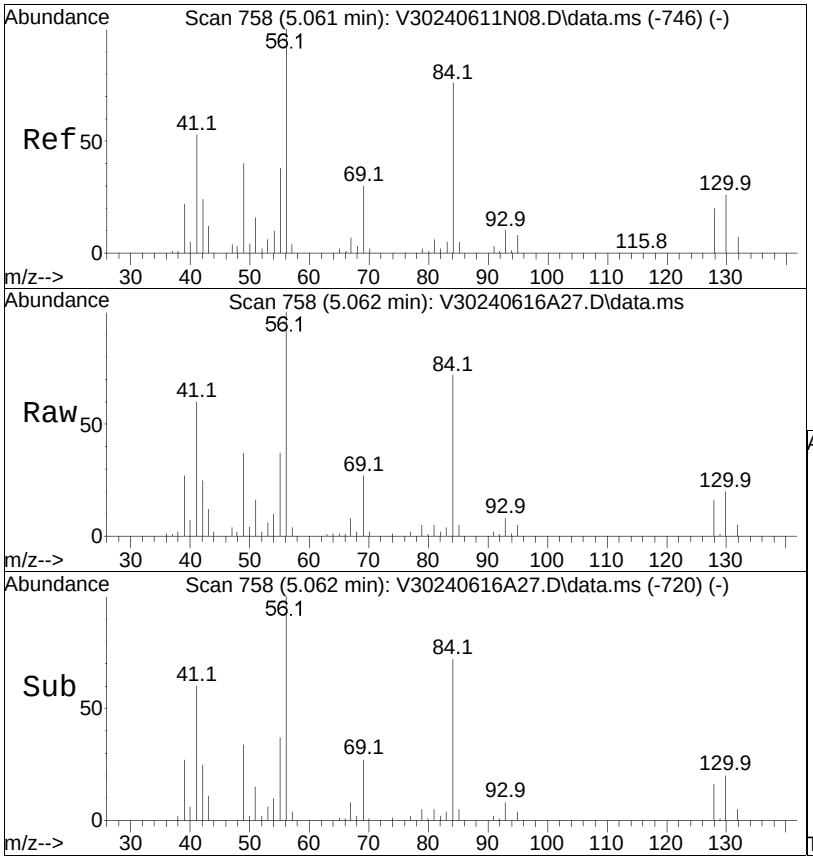


#33
Bromochloromethane
Concen: 10.82 ug/L
RT: 5.046 min Scan# 755
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:128 Resp: 38609

Ion	Ratio	Lower	Upper
128	100		
49	251.1	214.8	322.2
130	125.6	105.4	158.2

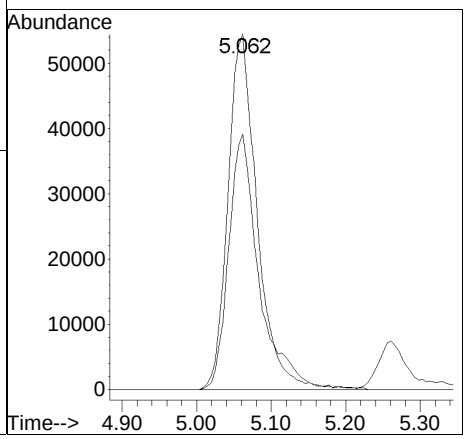


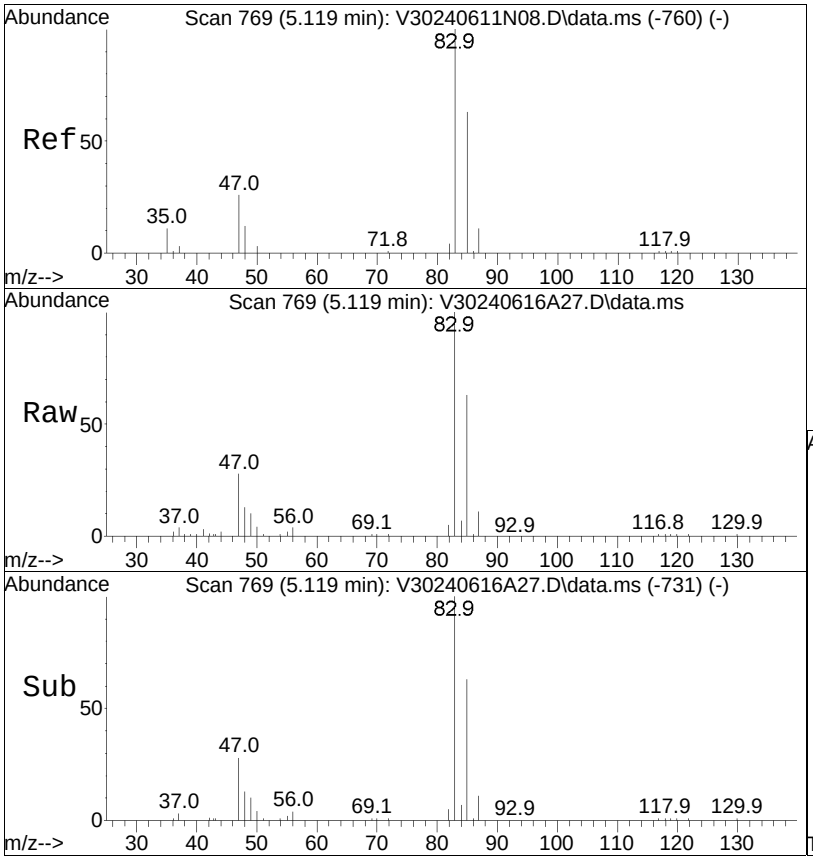


#34
Cyclohexane
Concen: 11.33 ug/L
RT: 5.062 min Scan# 758
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 56 Resp: 148596

Ion	Ratio	Lower	Upper
56	100		
84	74.5	49.9	103.5

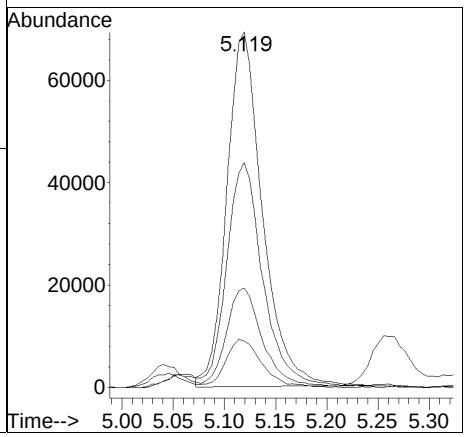


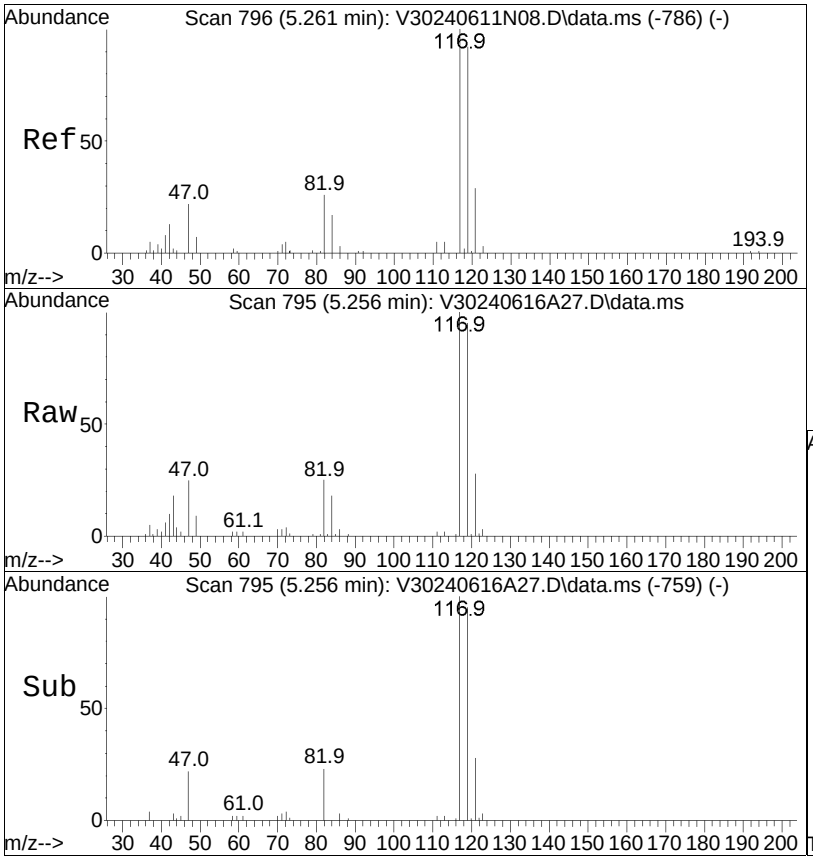


#35
Chloroform
Concen: 11.73 ug/L
RT: 5.119 min Scan# 769
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 83 Resp: 168009

Ion	Ratio	Lower	Upper
83	100		
85	64.2	41.4	86.0
47	27.4	20.5	42.5
48	13.8	9.9	20.5

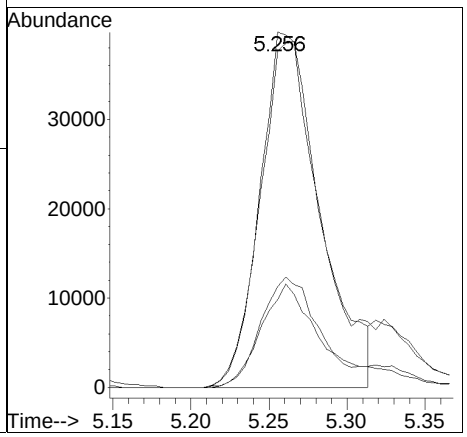


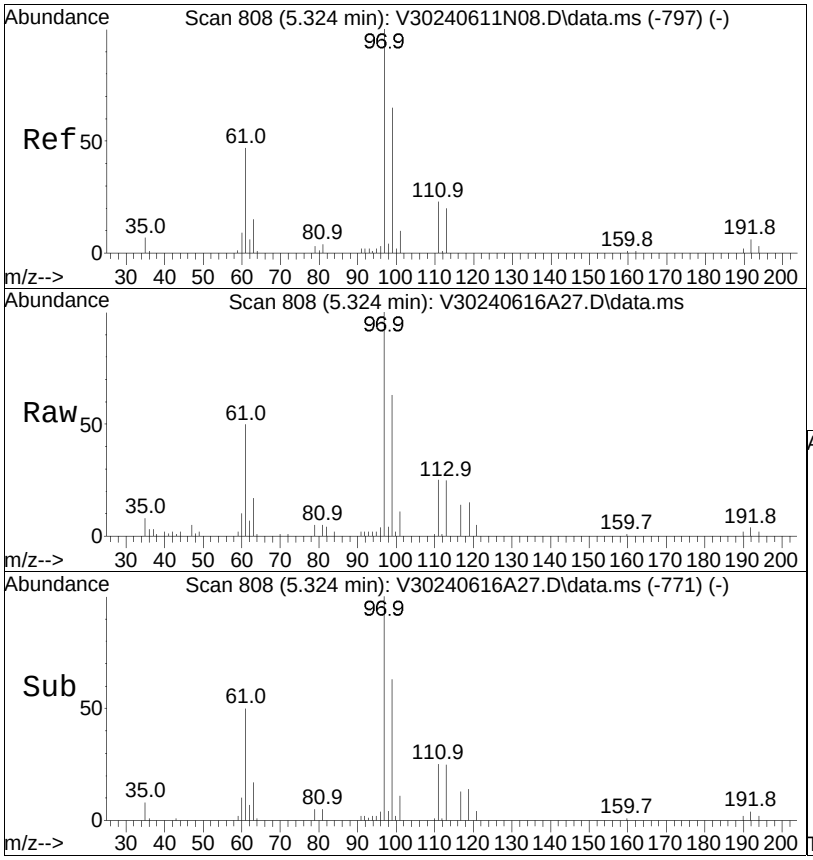


#37
Carbon tetrachloride
Concen: 12.47 ug/L
RT: 5.256 min Scan# 795
Delta R.T. -0.010 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:117 Resp: 107276

Ion	Ratio	Lower	Upper
117	100		
119	110.7	62.0	128.8
121	30.9	19.6	40.6
82	31.9	18.8	39.0

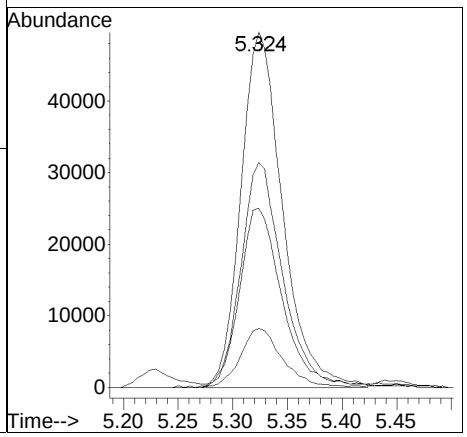


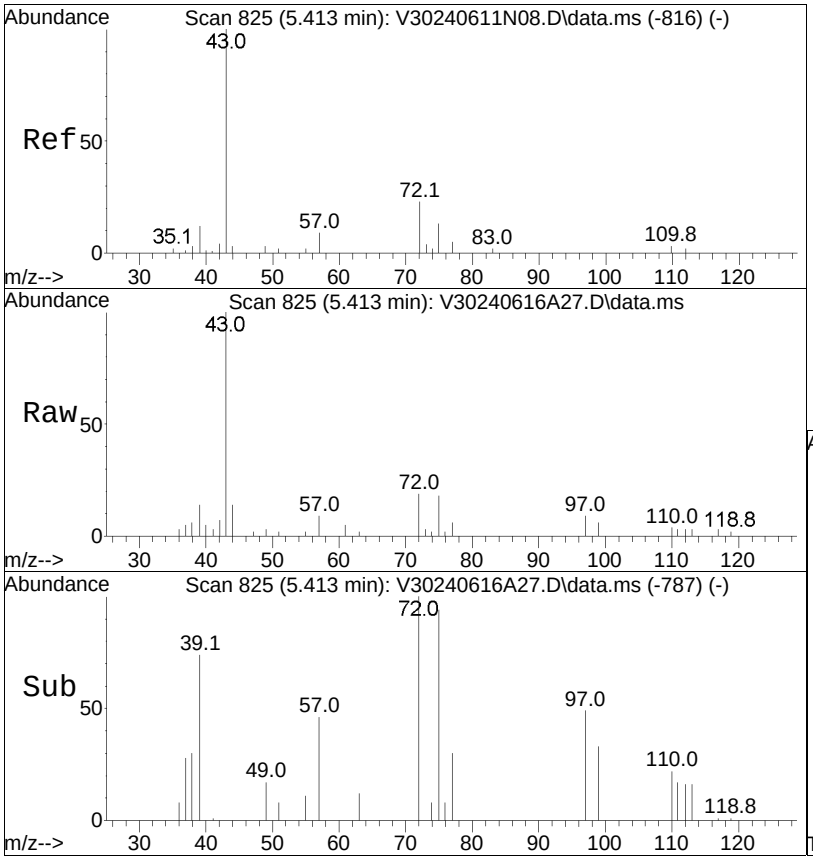


#40
1,1,1-Trichloroethane
Concen: 12.10 ug/L
RT: 5.324 min Scan# 808
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 97 Resp: 131538

Ion	Ratio	Lower	Upper
97	100		
99	63.8	40.6	84.4
61	51.8	35.0	72.8
63	16.8	11.1	23.0

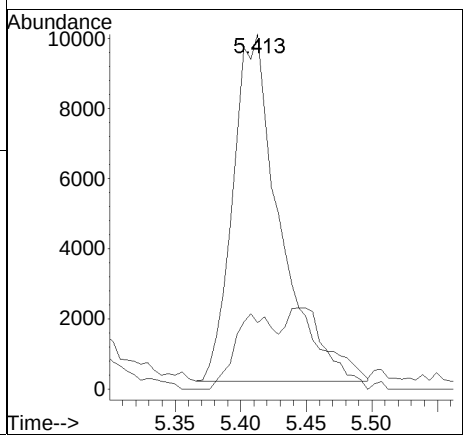


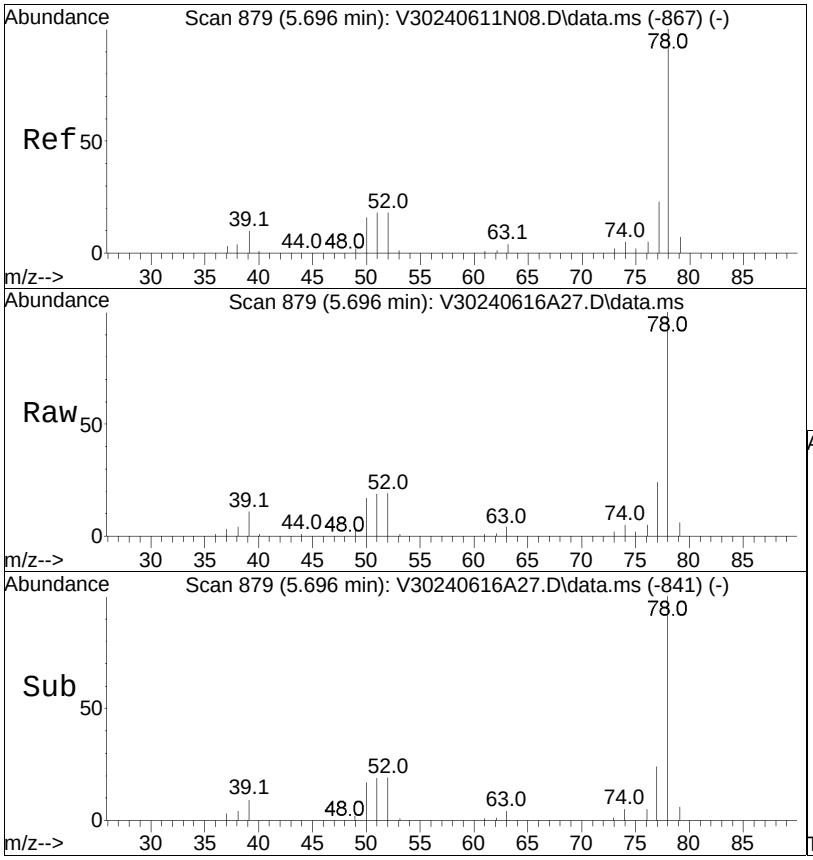


#42
2-Butanone
Concen: 10.23 ug/L
RT: 5.413 min Scan# 825
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 43 Resp: 24668

Ion	Ratio	Lower	Upper
43	100		
72	18.4	18.2	27.4

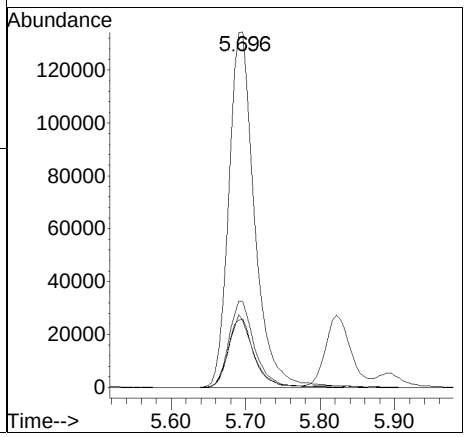


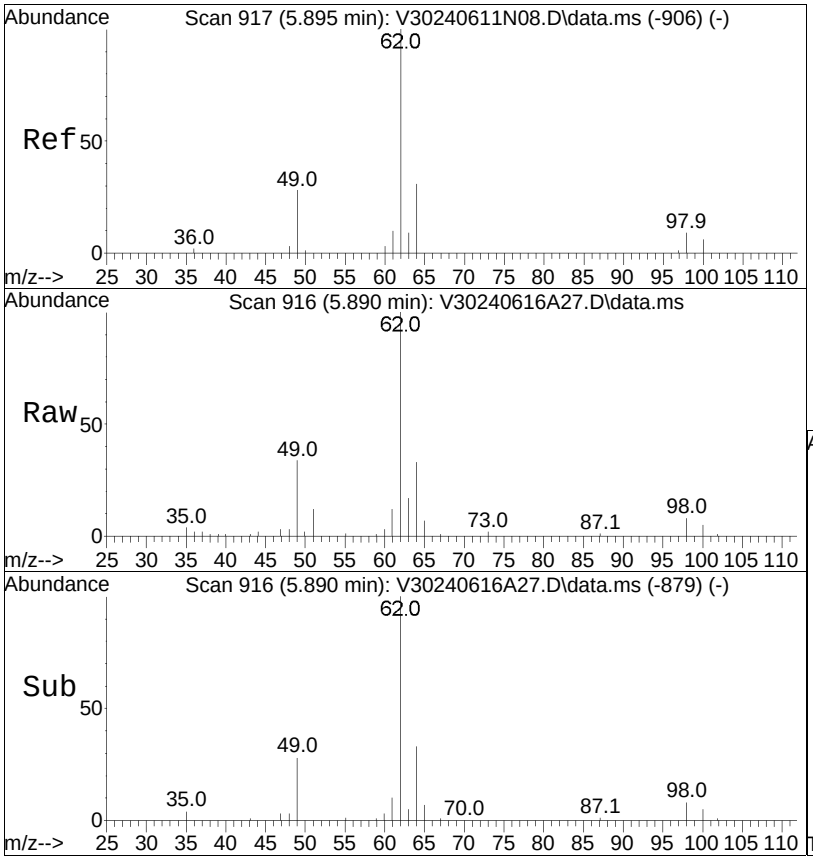


#45
Benzene
Concen: 11.19 ug/L
RT: 5.696 min Scan# 879
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 78 Resp: 323083

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.6	32.4
51	19.2	12.9	26.7
52	19.3	12.4	25.7

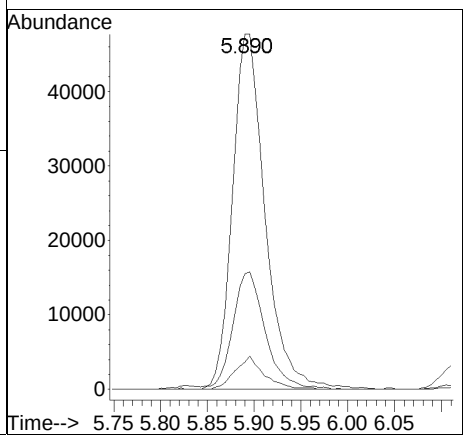


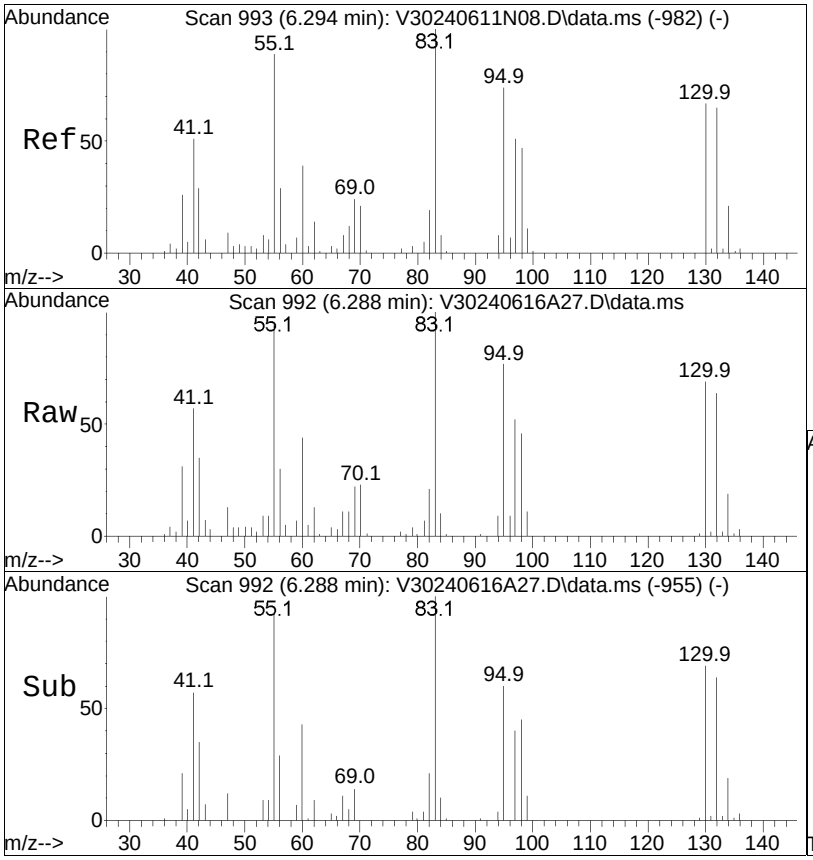


#48
1,2-Dichloroethane
Concen: 11.55 ug/L
RT: 5.890 min Scan# 916
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 62 Resp: 116024

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.5	38.3
98	8.4	5.5	8.3#

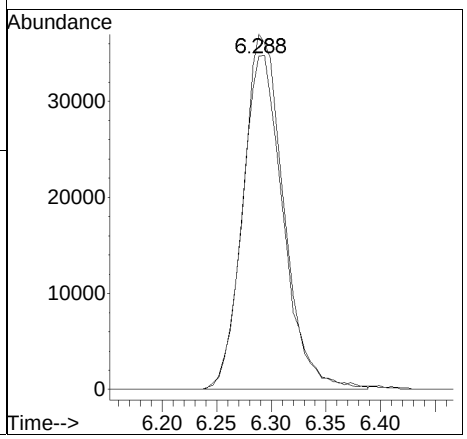


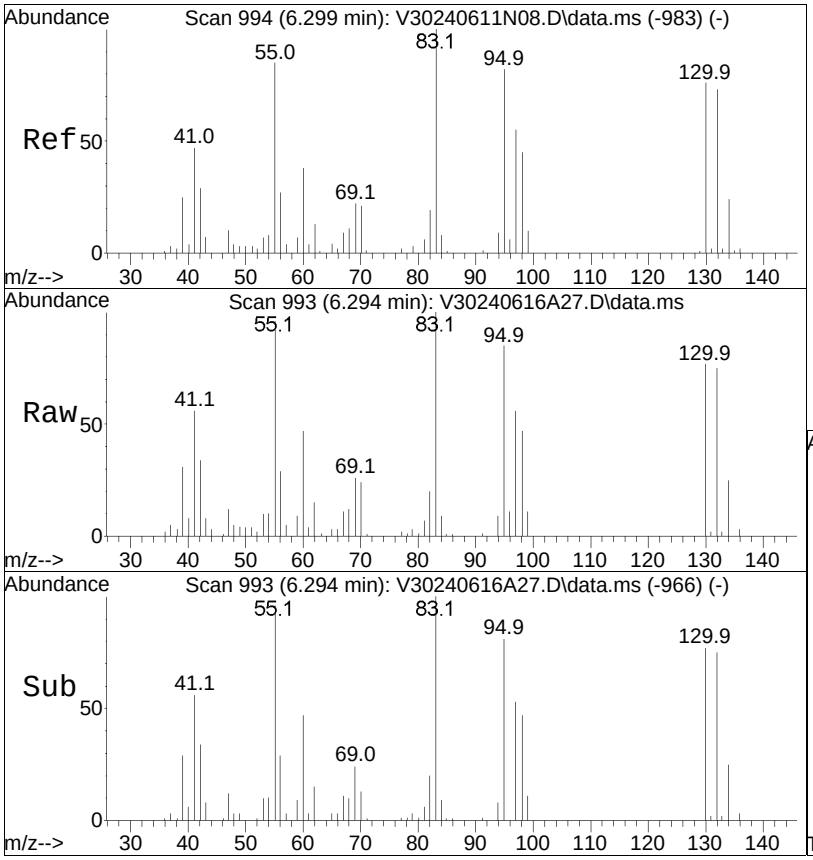


#51
Methyl cyclohexane
Concen: 9.06 ug/L
RT: 6.288 min Scan# 992
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 83 Resp: 95508

Ion	Ratio	Lower	Upper
83	100		
55	94.1	74.6	112.0

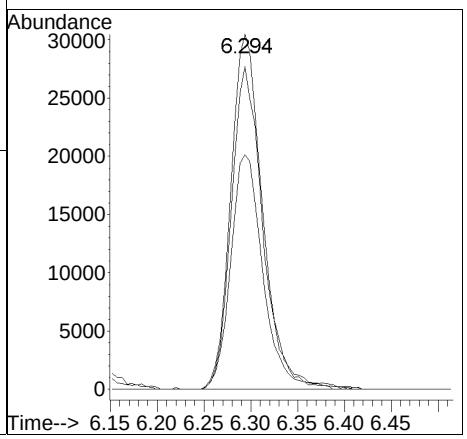


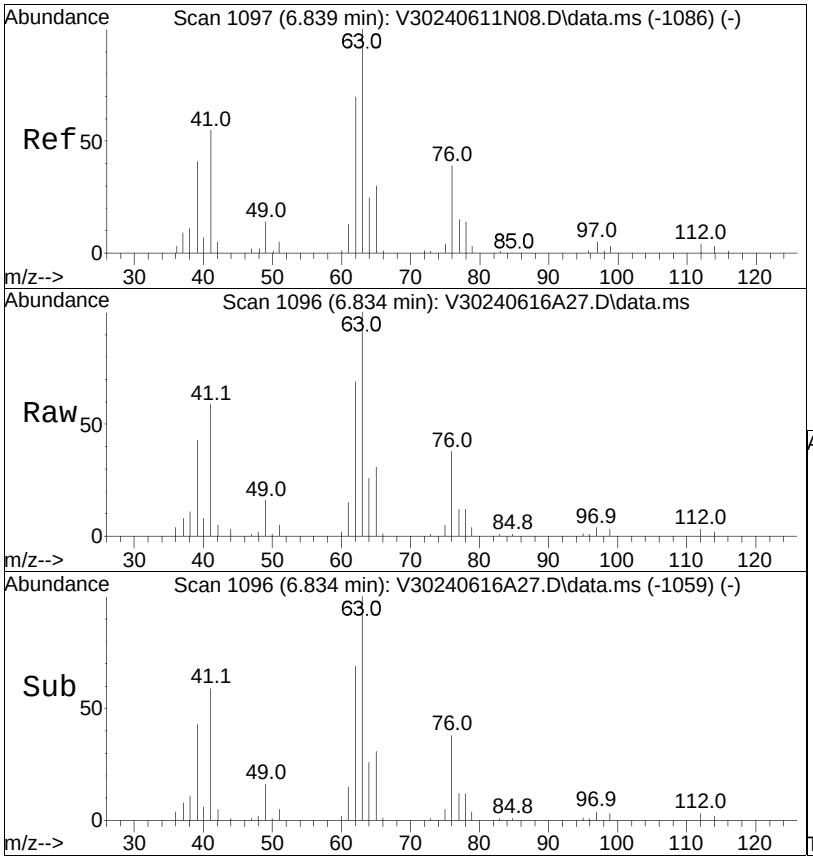


#52
Trichloroethene
Concen: 10.50 ug/L
RT: 6.294 min Scan# 993
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 95 Resp: 72948

Ion	Ratio	Lower	Upper
95	100		
97	66.2	53.8	80.6
130	89.1	71.4	107.0

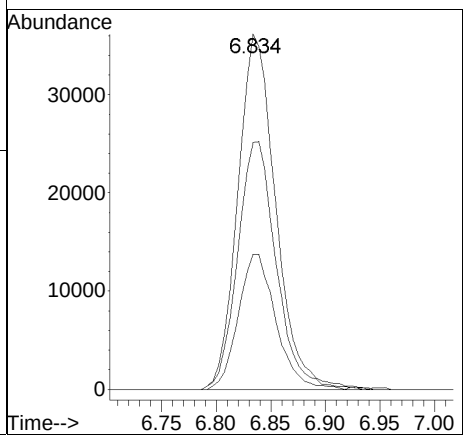


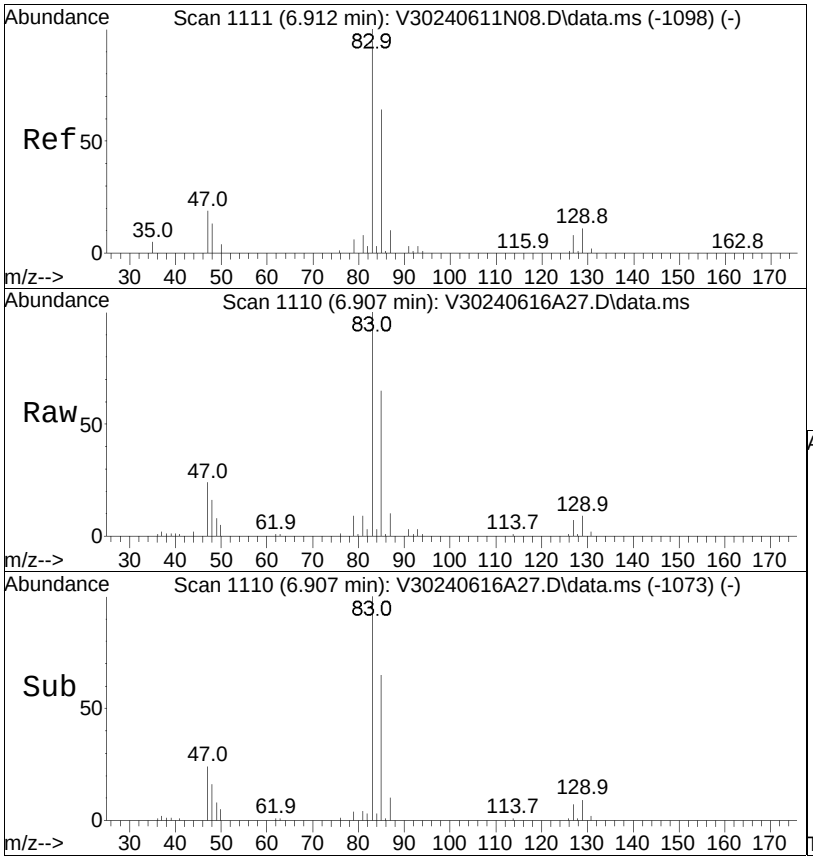


#55
1,2-Dichloropropane
Concen: 10.82 ug/L
RT: 6.834 min Scan# 1096
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 63 Resp: 87373

Ion	Ratio	Lower	Upper
63	100		
62	70.9	58.1	87.1
76	37.7	30.4	45.6

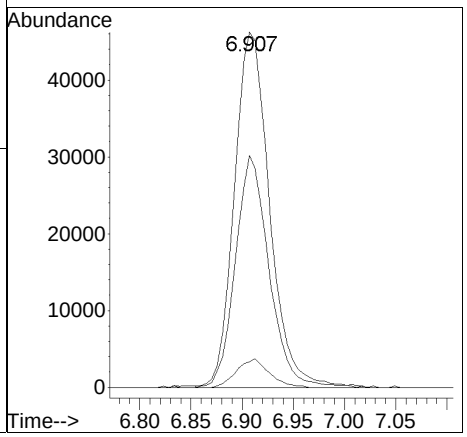


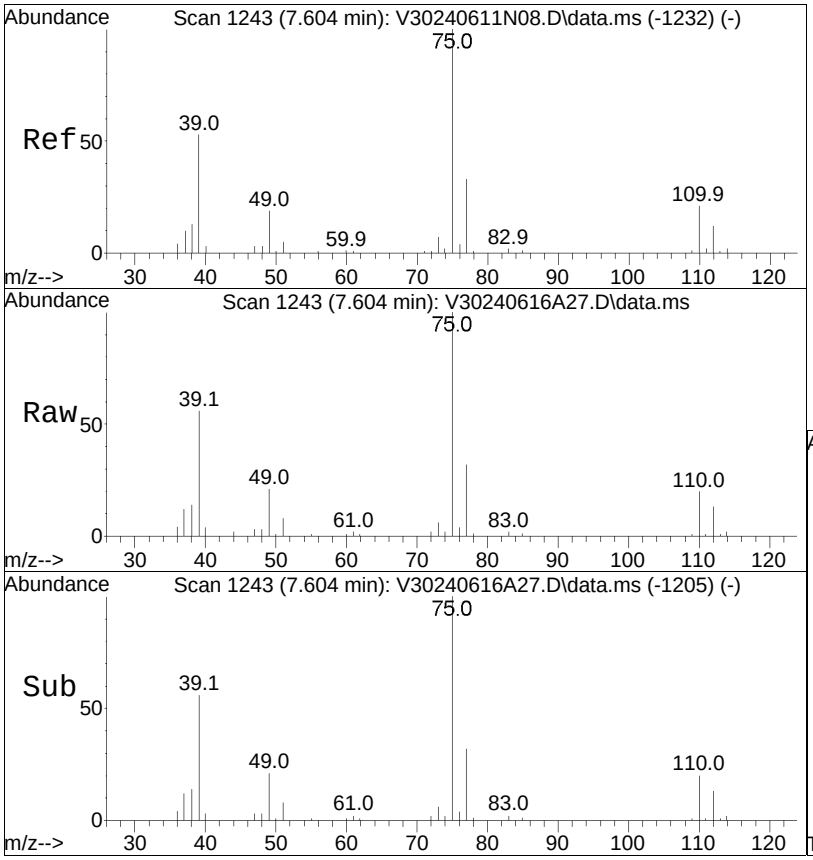


#58
Bromodichloromethane
Concen: 10.86 ug/L
RT: 6.907 min Scan# 1110
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 83 Resp: 110711

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.2	75.2
127	7.5	5.2	7.8

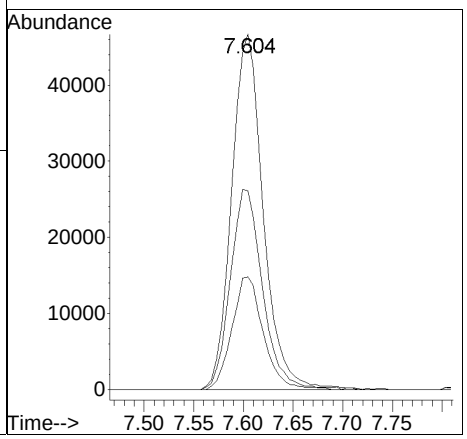


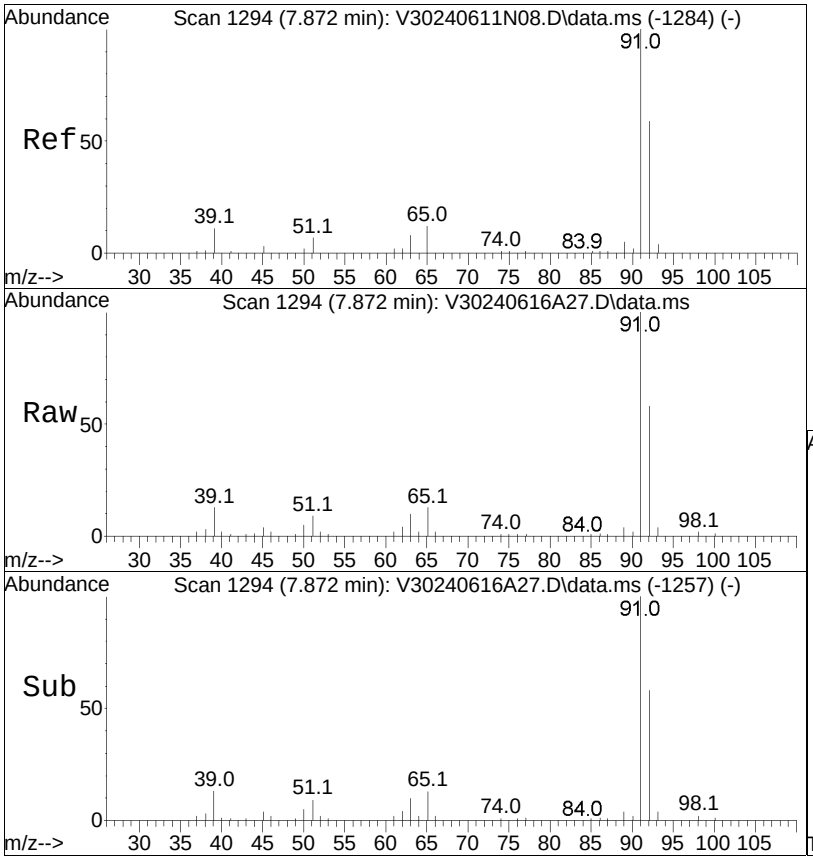


#62
cis-1,3-Dichloropropene
Concen: 9.76 ug/L
RT: 7.604 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 75 Resp: 103261

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.2
39	57.0	54.6	82.0

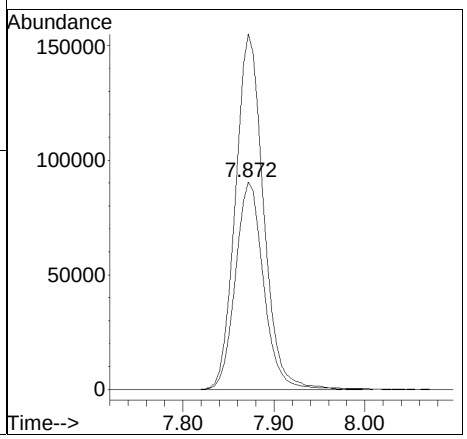


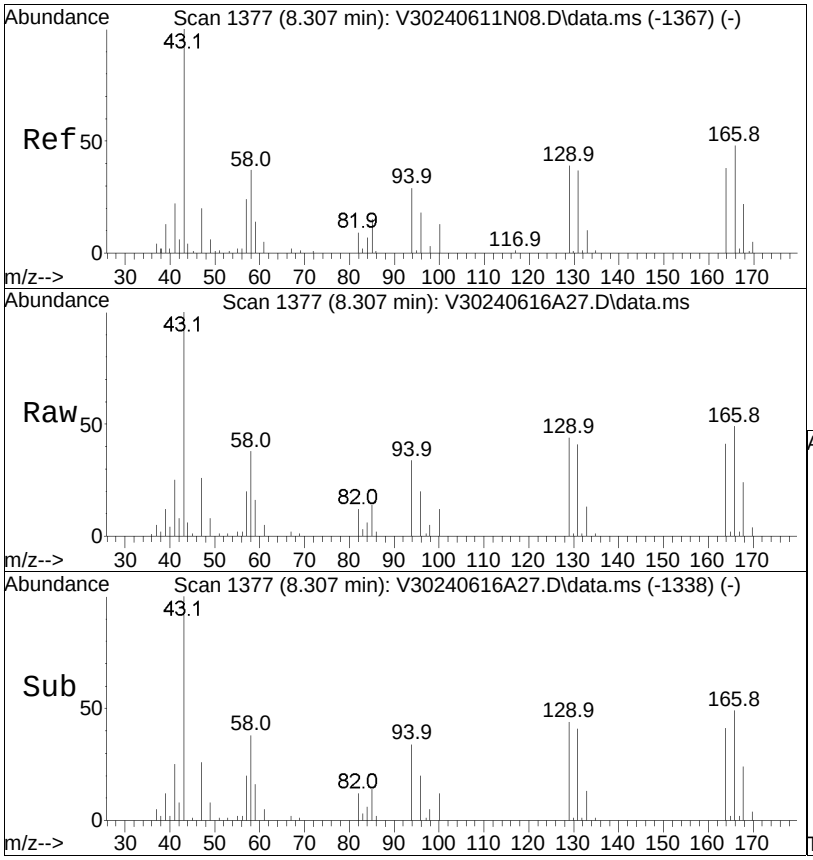


#65
Toluene
Concen: 10.32 ug/L
RT: 7.872 min Scan# 1294
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 92 Resp: 194227

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.5	206.3

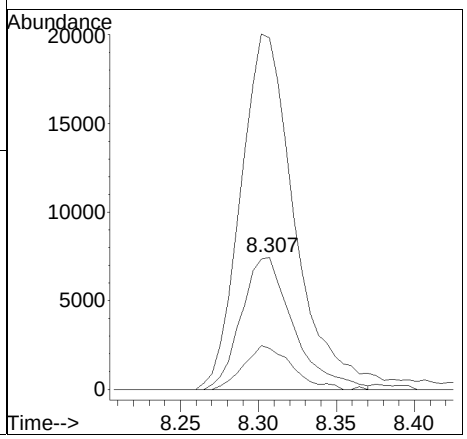


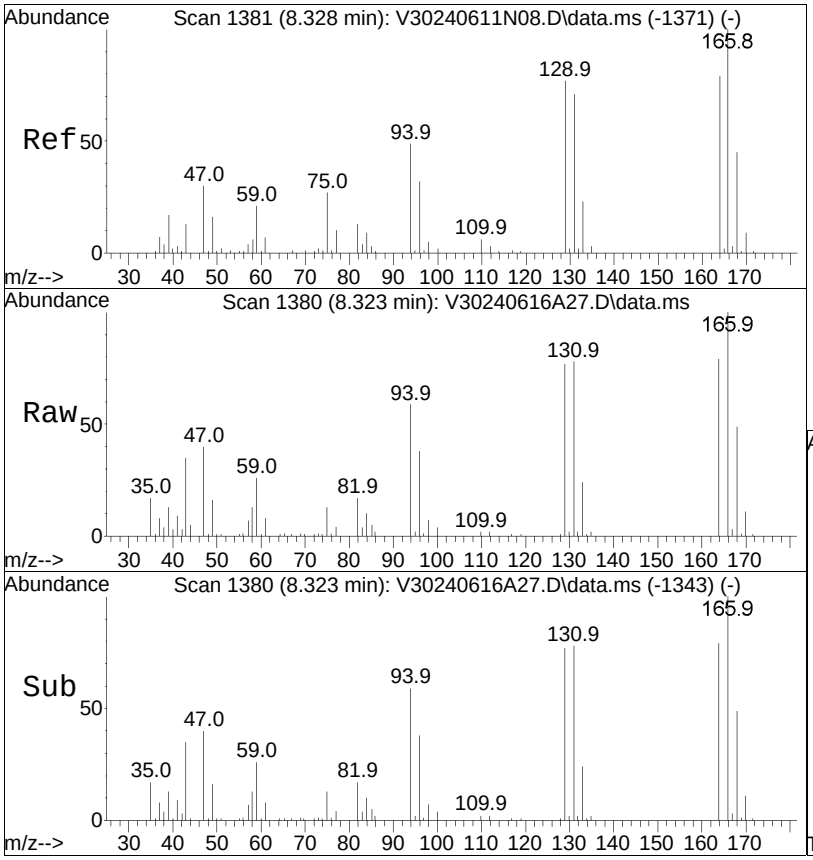


#66
4-Methyl-2-pentanone
Concen: 9.47 ug/L
RT: 8.307 min Scan# 1377
Delta R.T. 0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 58 Resp: 17296

Ion	Ratio	Lower	Upper
58	100		
100	30.6	22.6	34.0
43	286.0	234.6	351.8

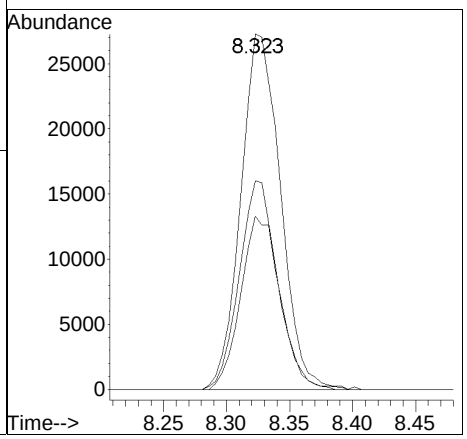


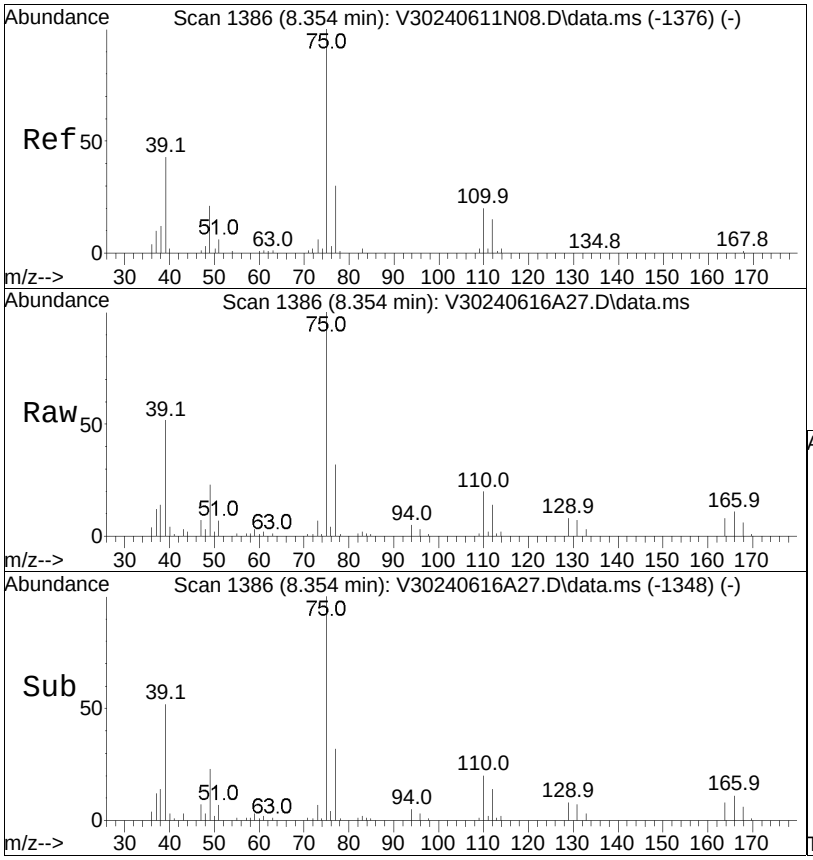


#67
Tetrachloroethene
Concen: 9.53 ug/L
RT: 8.323 min Scan# 1380
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:166 Resp: 59808

Ion	Ratio	Lower	Upper
166	100		
168	48.6	38.6	58.0
94	56.4	42.6	63.8

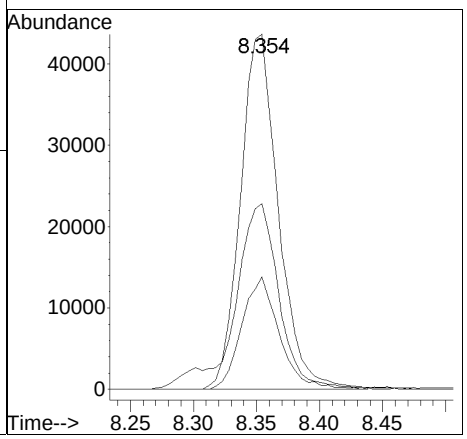


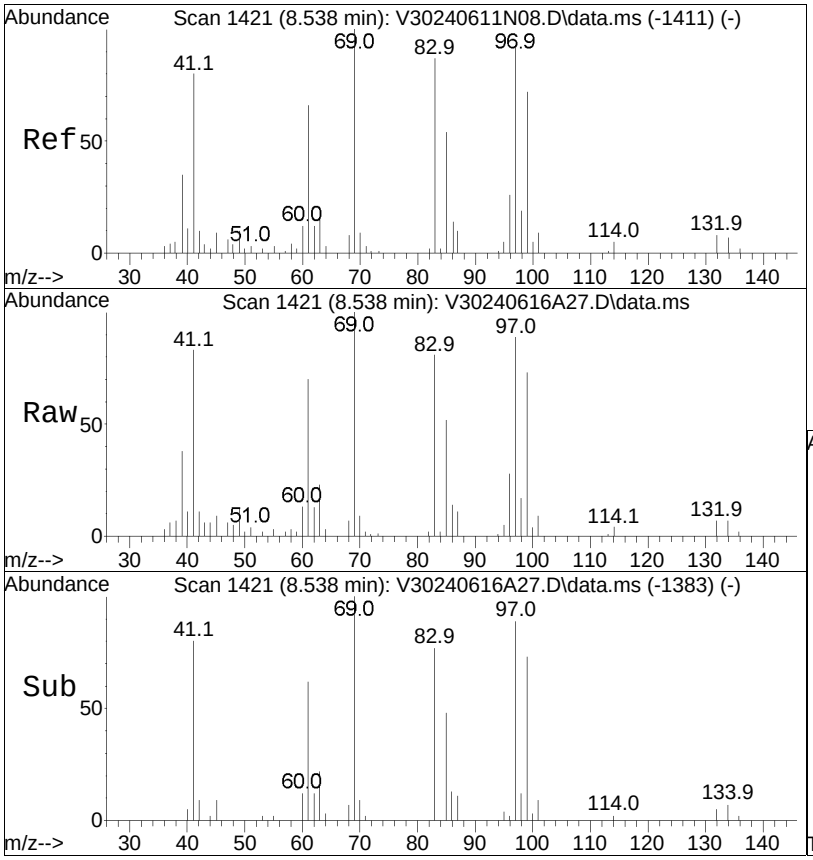


#69
trans-1,3-Dichloropropene
Concen: 9.58 ug/L
RT: 8.354 min Scan# 1386
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 75 Resp: 91579

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.6	38.4
39	56.4	60.2	90.4#

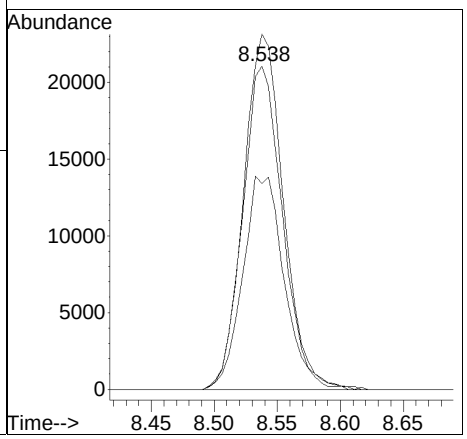


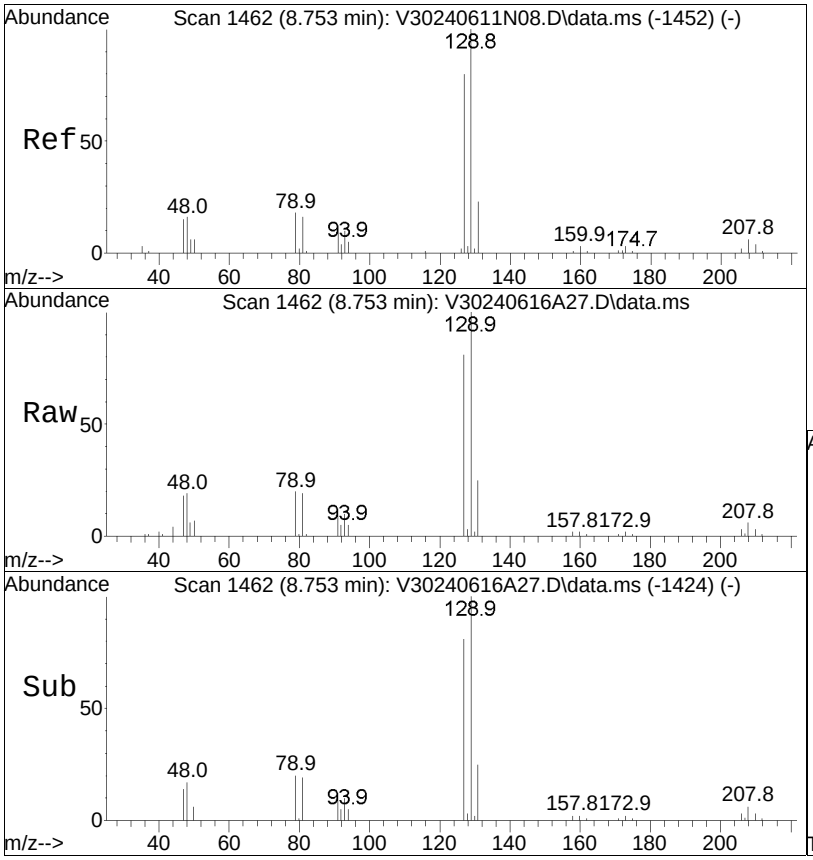


#72
1,1,2-Trichloroethane
Concen: 9.39 ug/L
RT: 8.538 min Scan# 1421
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 83 Resp: 46569

Ion	Ratio	Lower	Upper
83	100		
97	109.3	87.7	131.5
85	68.2	53.1	79.7

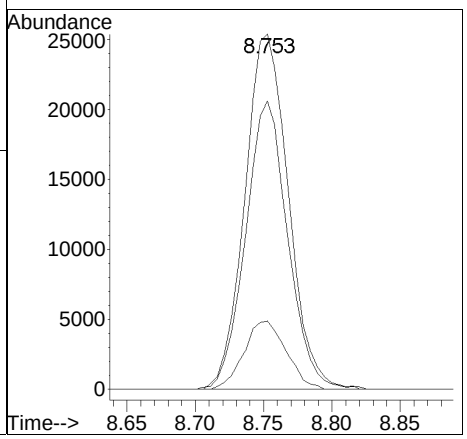


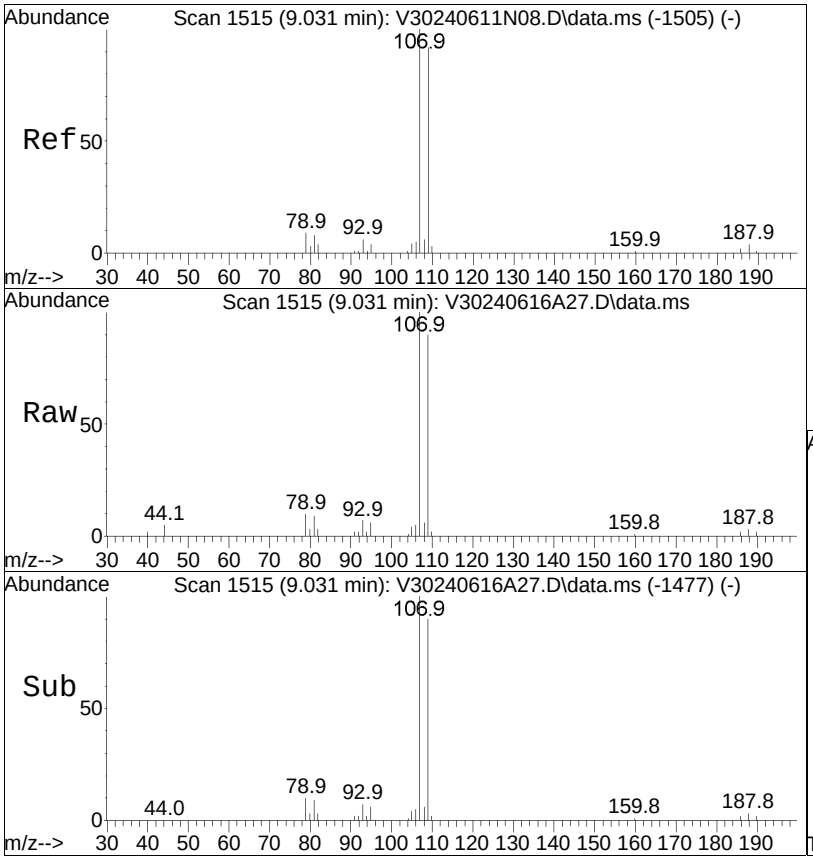


#73
Chlorodibromomethane
Concen: 8.75 ug/L
RT: 8.753 min Scan# 1462
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:129 Resp: 56291

Ion	Ratio	Lower	Upper
129	100		
81	18.7	14.6	22.0
127	78.8	62.6	93.8

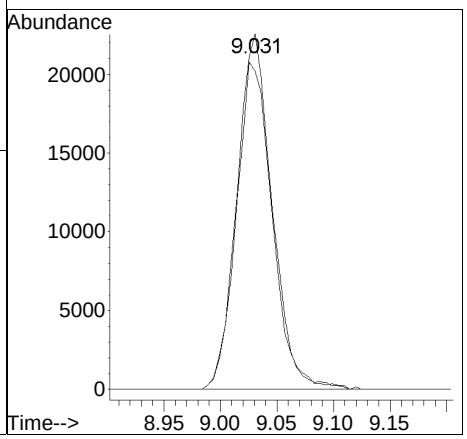


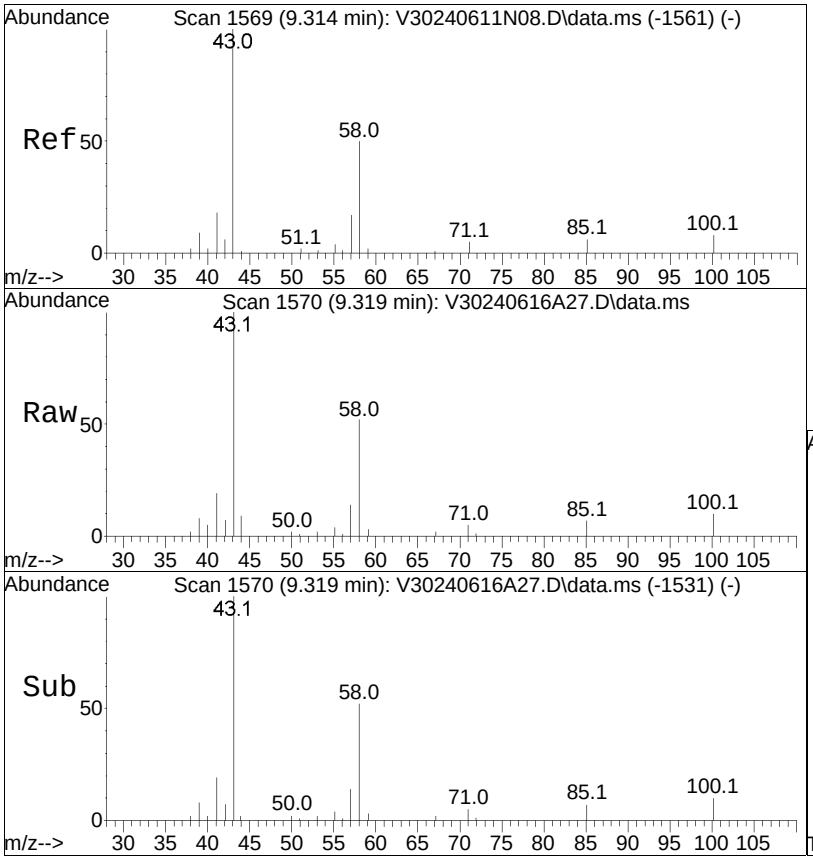


#75
1,2-Dibromoethane
Concen: 9.19 ug/L
RT: 9.031 min Scan# 1515
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:107 Resp: 49045

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.0	112.4

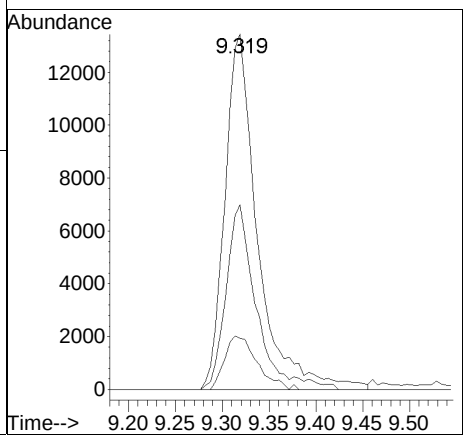


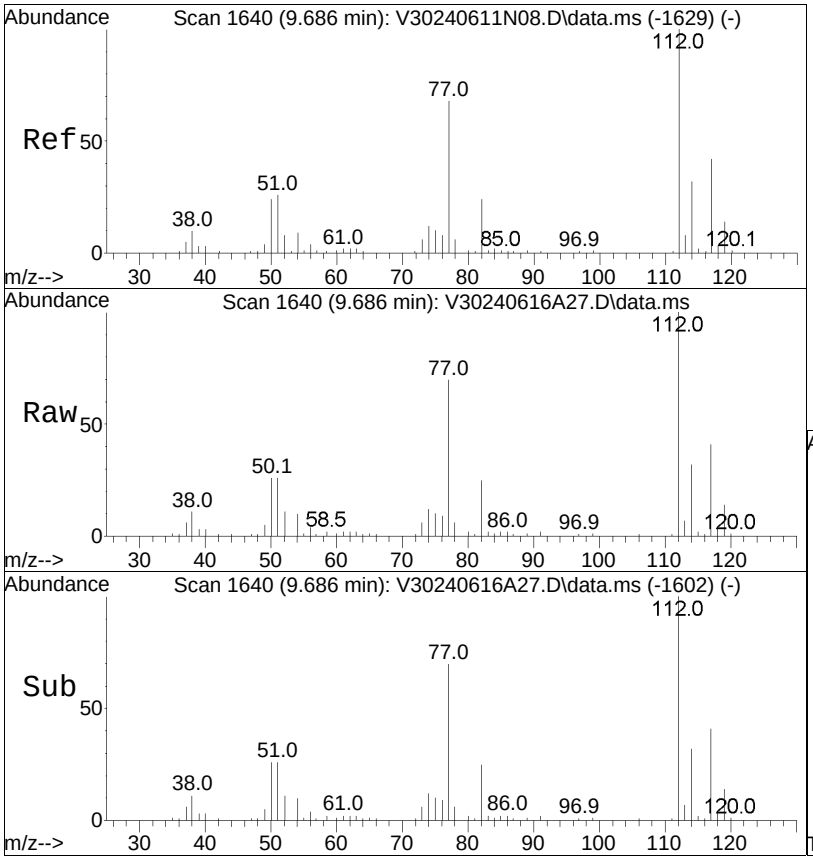


#77
2-Hexanone
Concen: 9.56 ug/L
RT: 9.319 min Scan# 1570
Delta R.T. 0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 43 Resp: 32640

Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.6	58.0
57	14.9	14.1	21.1

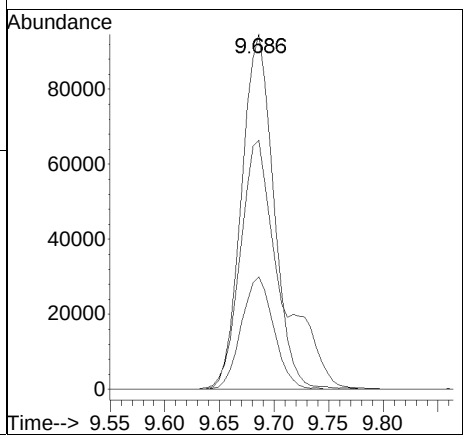


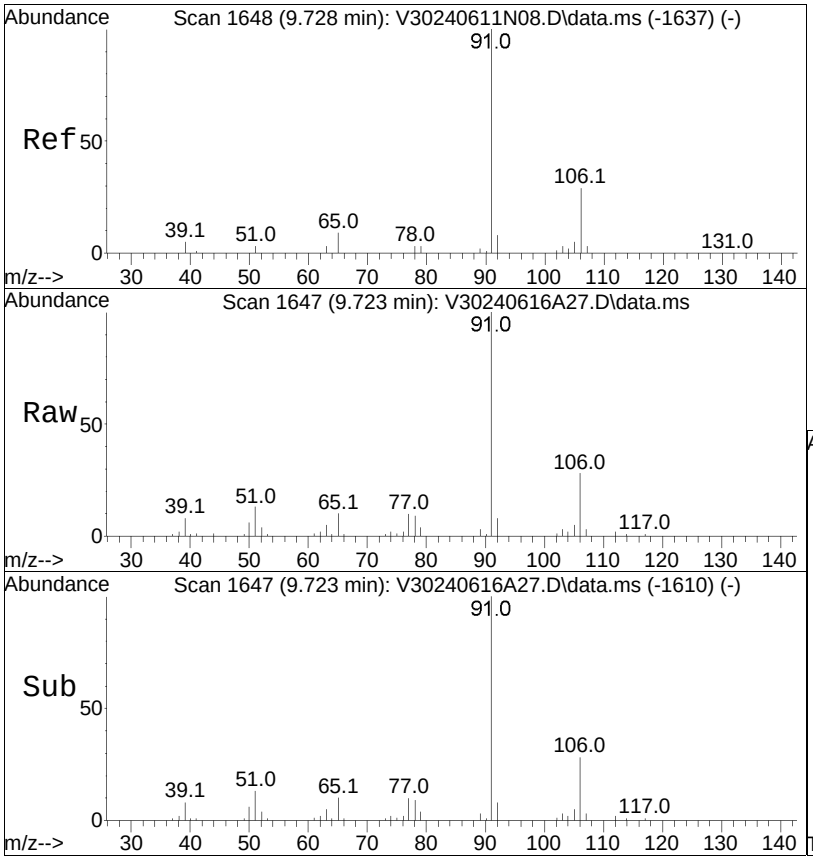


#78
Chlorobenzene
Concen: 9.97 ug/L
RT: 9.686 min Scan# 1640
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:112 Resp: 194003

Ion	Ratio	Lower	Upper
112	100		
77	89.8	54.8	82.2#
114	32.0	25.4	38.0

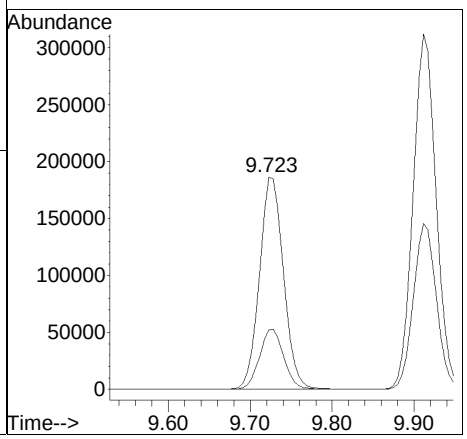


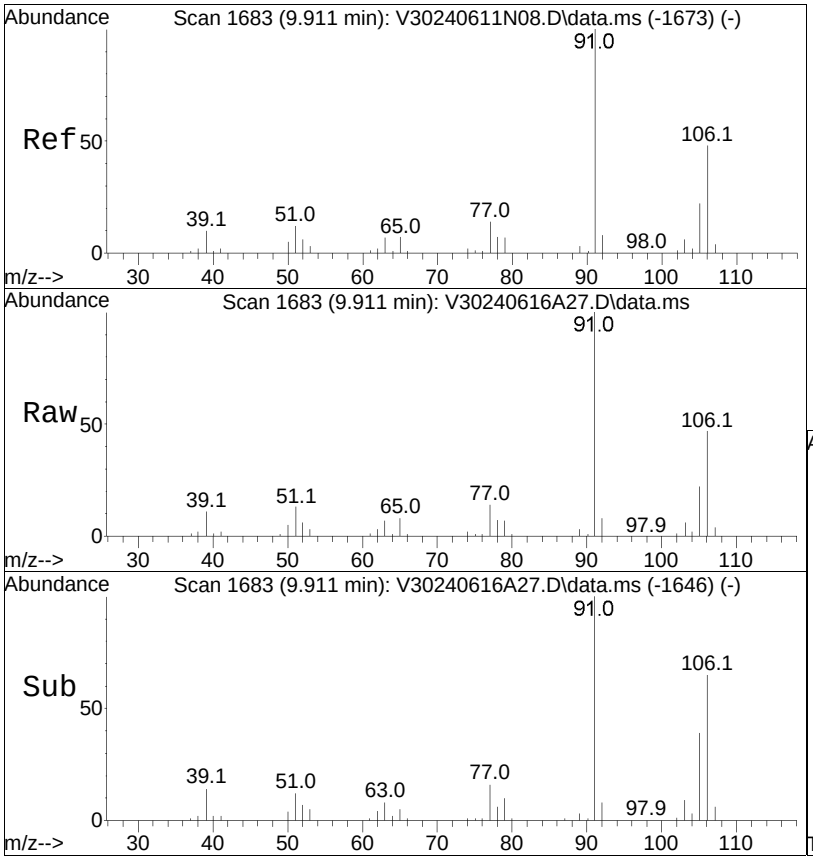


#79
Ethylbenzene
Concen: 10.75 ug/L
RT: 9.723 min Scan# 1647
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 91 Resp: 381341

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.4	35.2

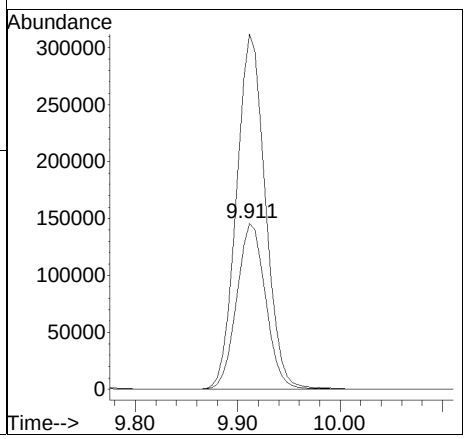


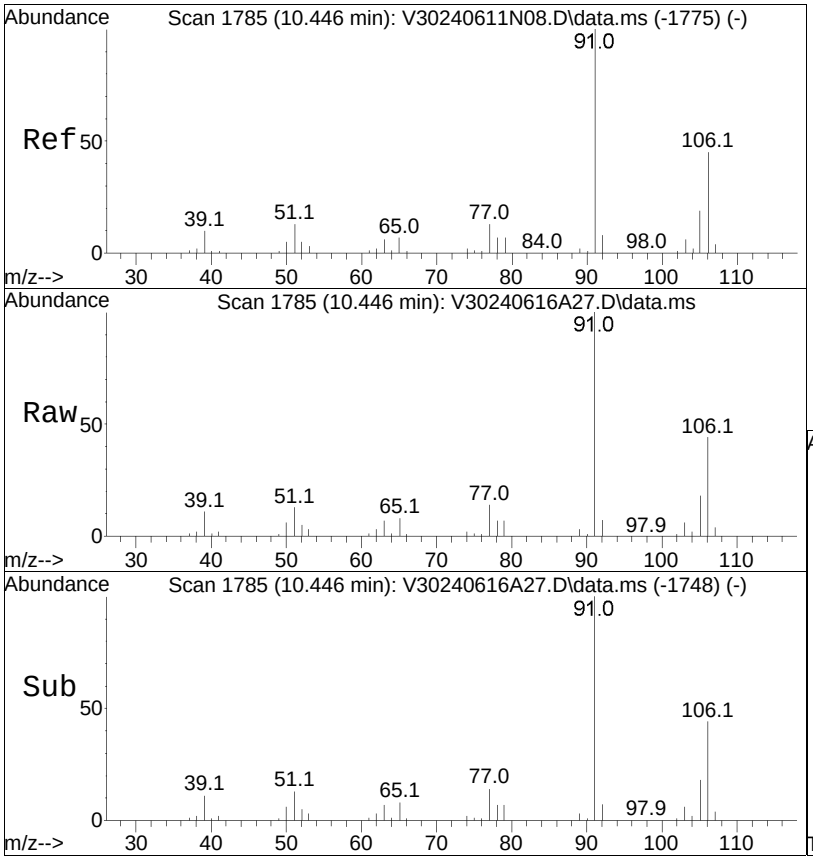


#81
p/m Xylene
Concen: 21.20 ug/L
RT: 9.911 min Scan# 1683
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:106 Resp: 286678

Ion	Ratio	Lower	Upper
106	100		
91	213.4	171.4	257.2

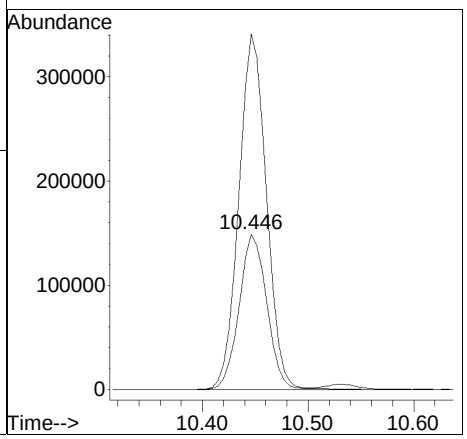


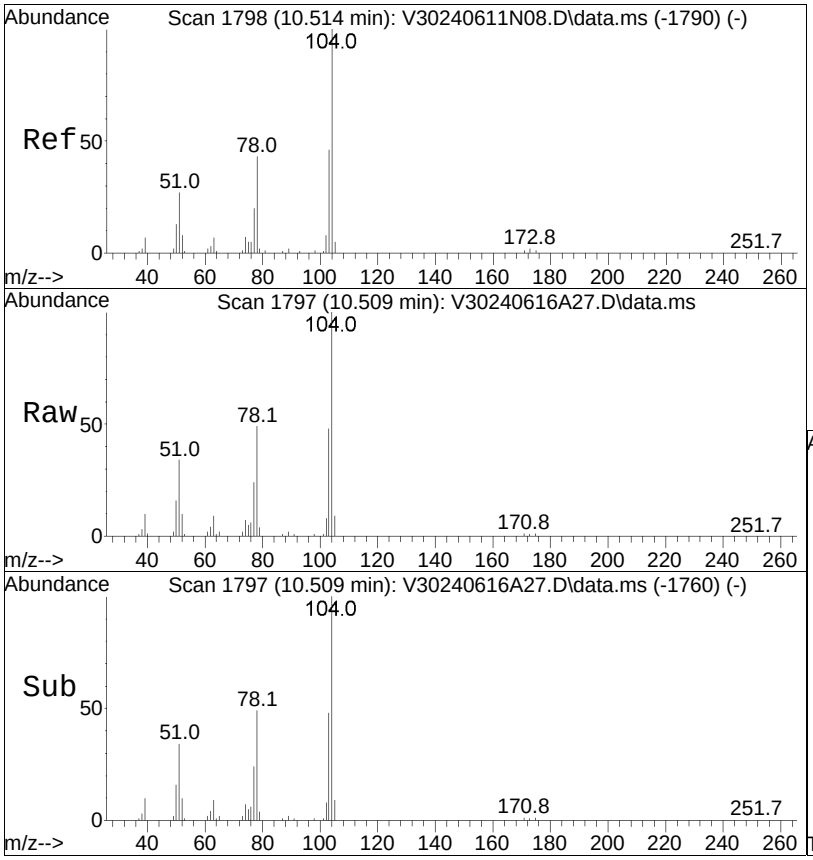


#82
o Xylene
Concen: 20.88 ug/L
RT: 10.446 min Scan# 1785
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:106 Resp: 271314

Ion	Ratio	Lower	Upper
106	100		
91	226.9	179.2	268.8

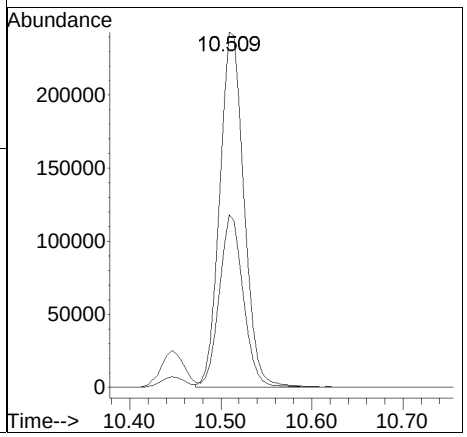


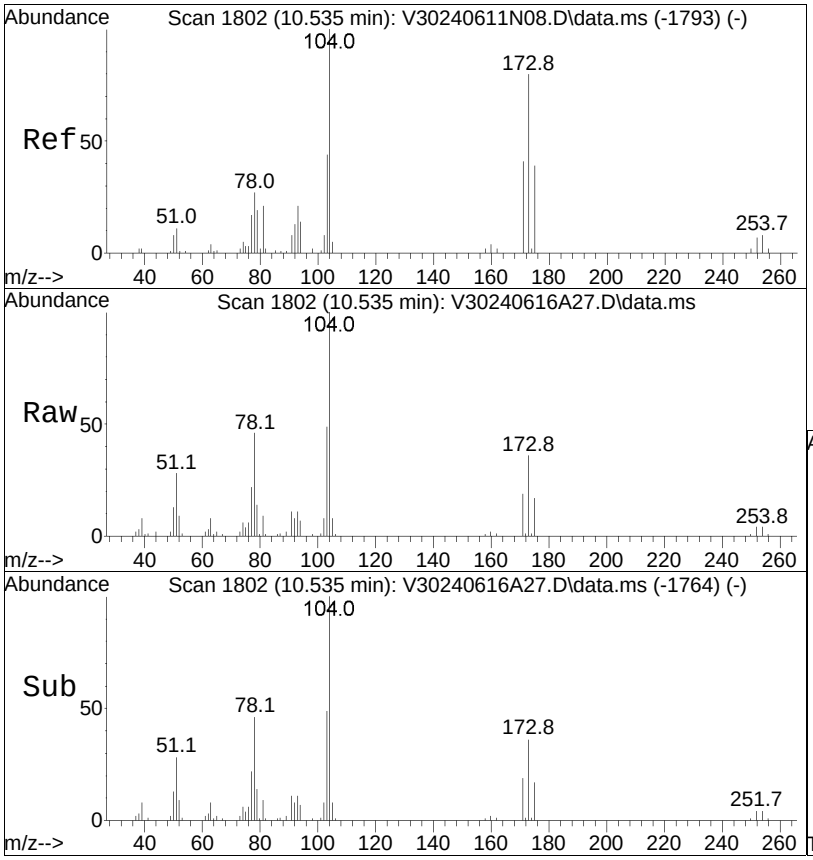


#83
Styrene
Concen: 20.96 ug/L
RT: 10.509 min Scan# 1797
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:104 Resp: 451108

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.1	57.1

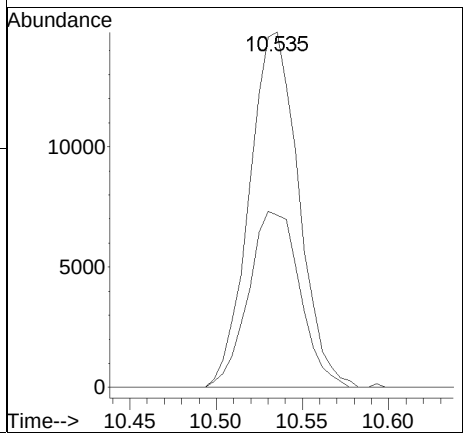


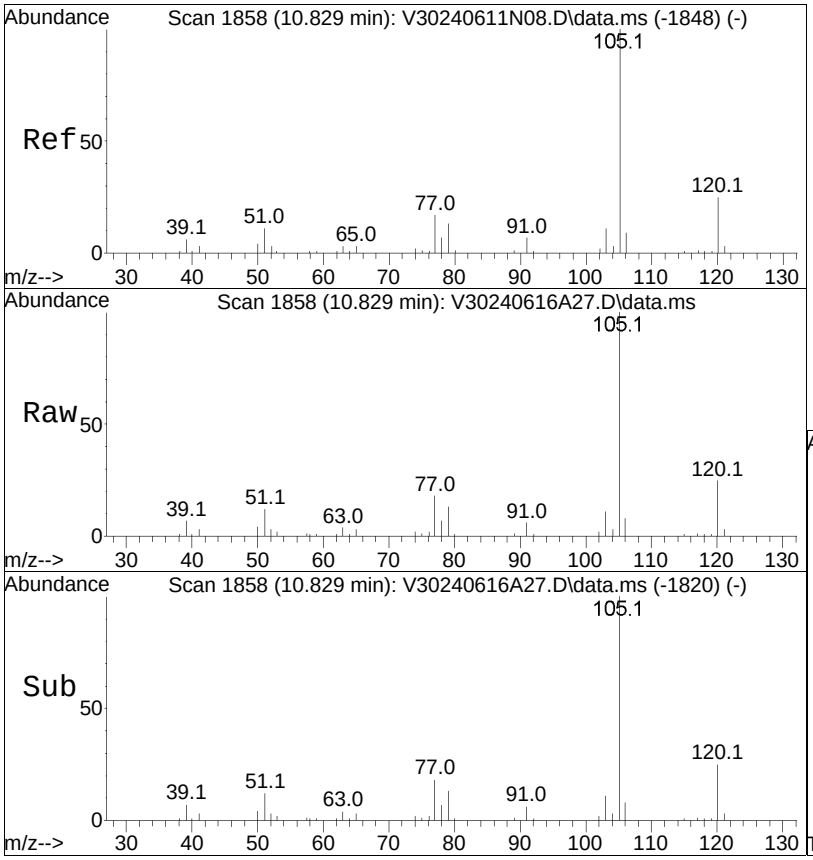


#85
Bromoform
Concen: 8.25 ug/L
RT: 10.535 min Scan# 1802
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:173 Resp: 29409

Ion	Ratio	Lower	Upper
173	100		
175	51.7	37.8	56.6

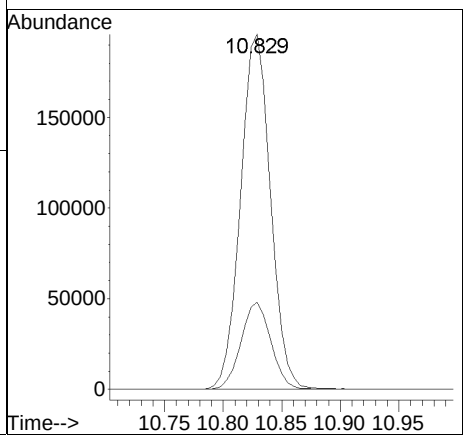


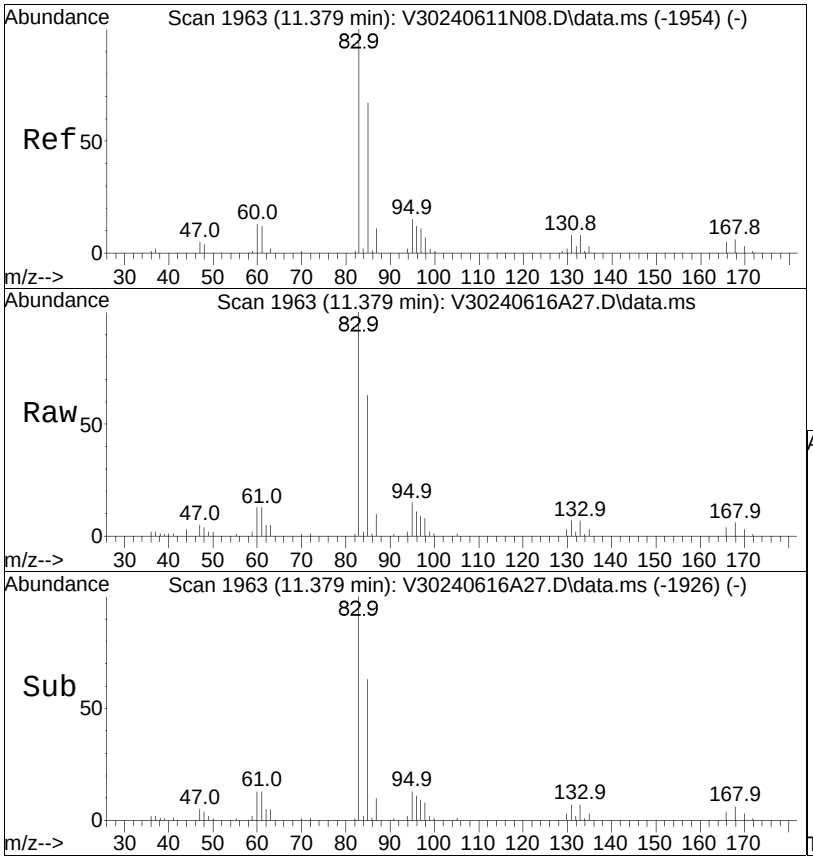


#87
Isopropylbenzene
Concen: 10.65 ug/L
RT: 10.829 min Scan# 1858
Delta R.T. -0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:105 Resp: 349241

Ion	Ratio	Lower	Upper
105	100		
120	24.5	20.0	30.0

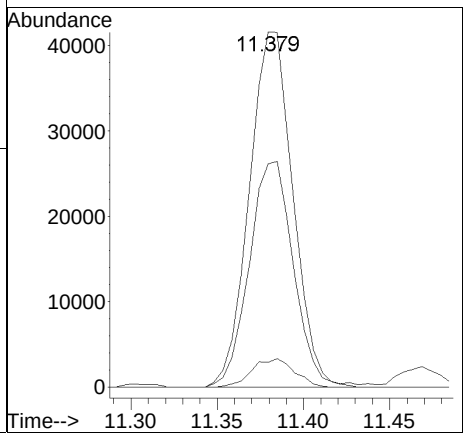


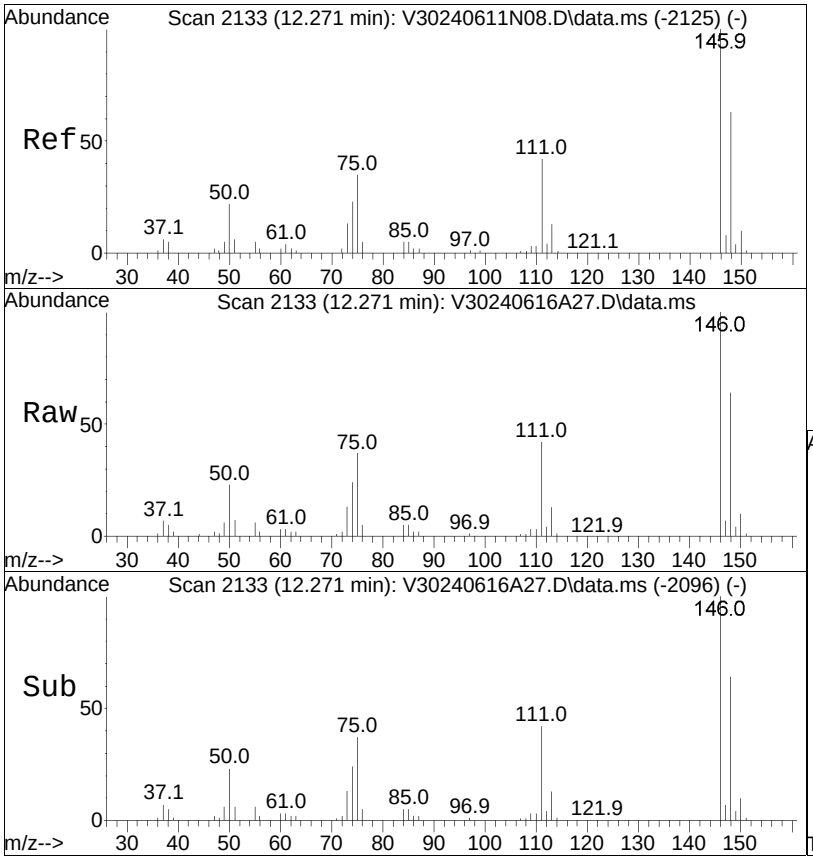


#92
1,1,2,2-Tetrachloroethane
Concen: 10.01 ug/L
RT: 11.379 min Scan# 1963
Delta R.T. -0.006 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion: 83 Resp: 73248

Ion	Ratio	Lower	Upper
83	100		
131	8.0	6.6	10.0
85	64.9	51.8	77.6

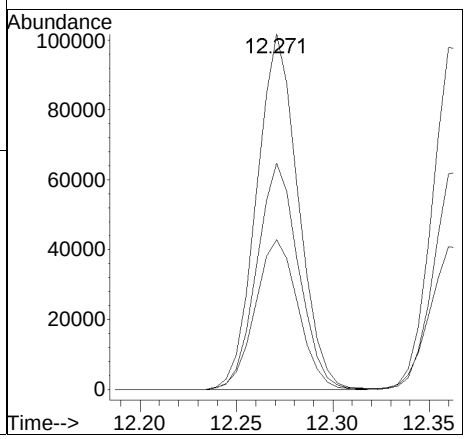


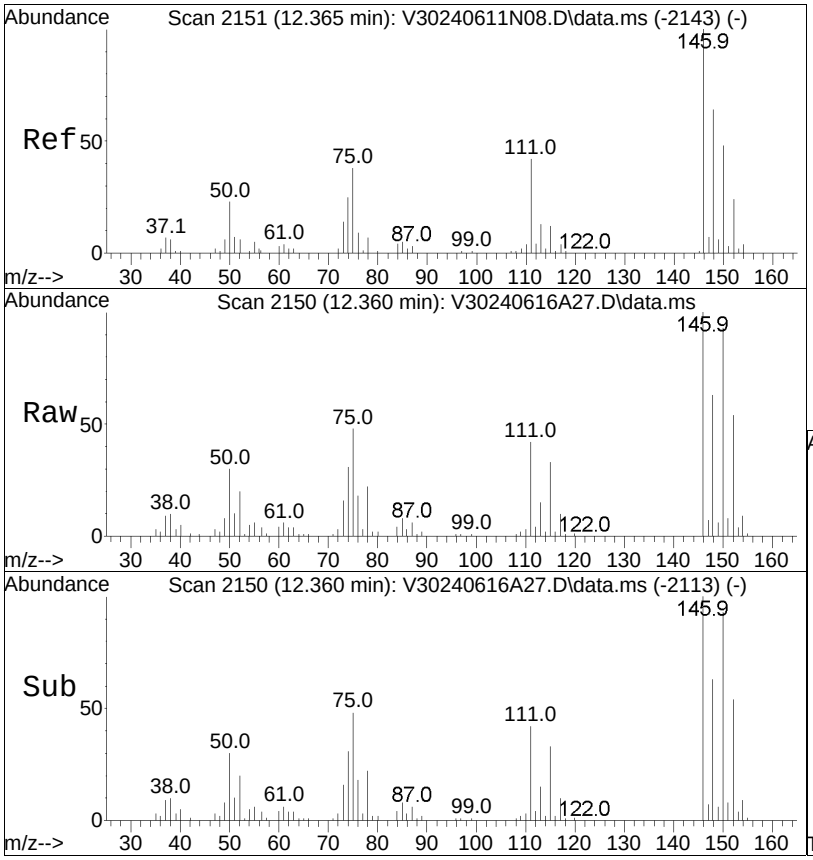


#105
1,3-Dichlorobenzene
Concen: 9.65 ug/L
RT: 12.271 min Scan# 2133
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:146 Resp: 152668

Ion	Ratio	Lower	Upper
146	100		
111	43.4	28.0	58.1
148	63.7	40.8	84.6

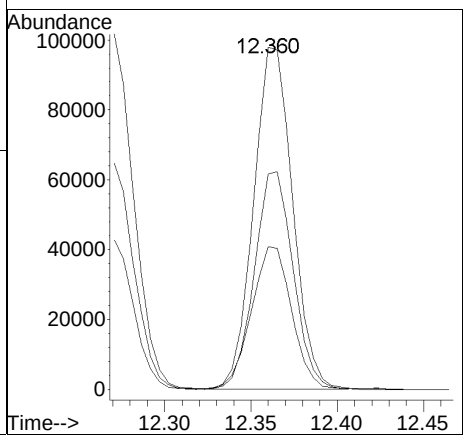


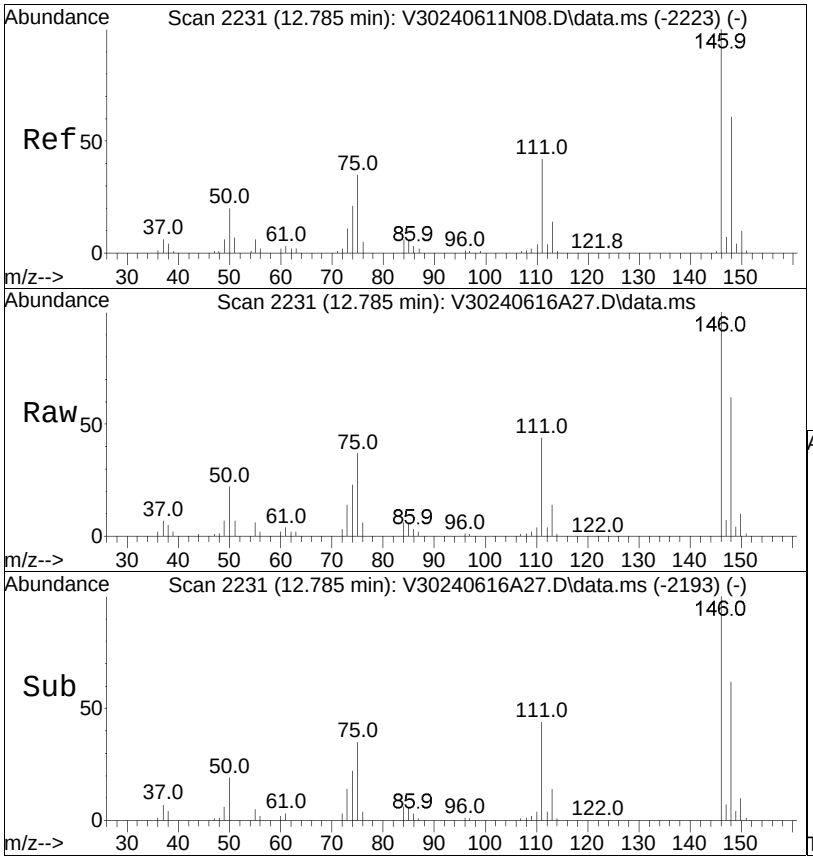


#106
1,4-Dichlorobenzene
Concen: 9.46 ug/L
RT: 12.360 min Scan# 2150
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:146 Resp: 153888

Ion	Ratio	Lower	Upper
146	100		
111	43.3	33.7	50.5
148	63.7	50.8	76.2

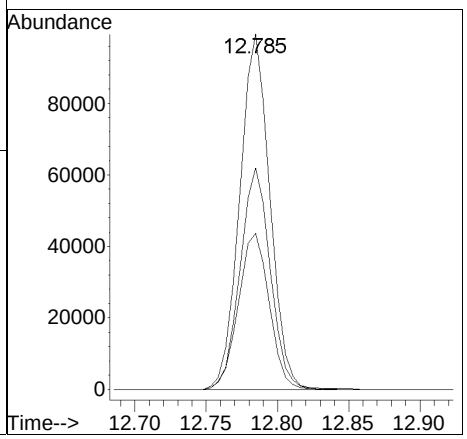


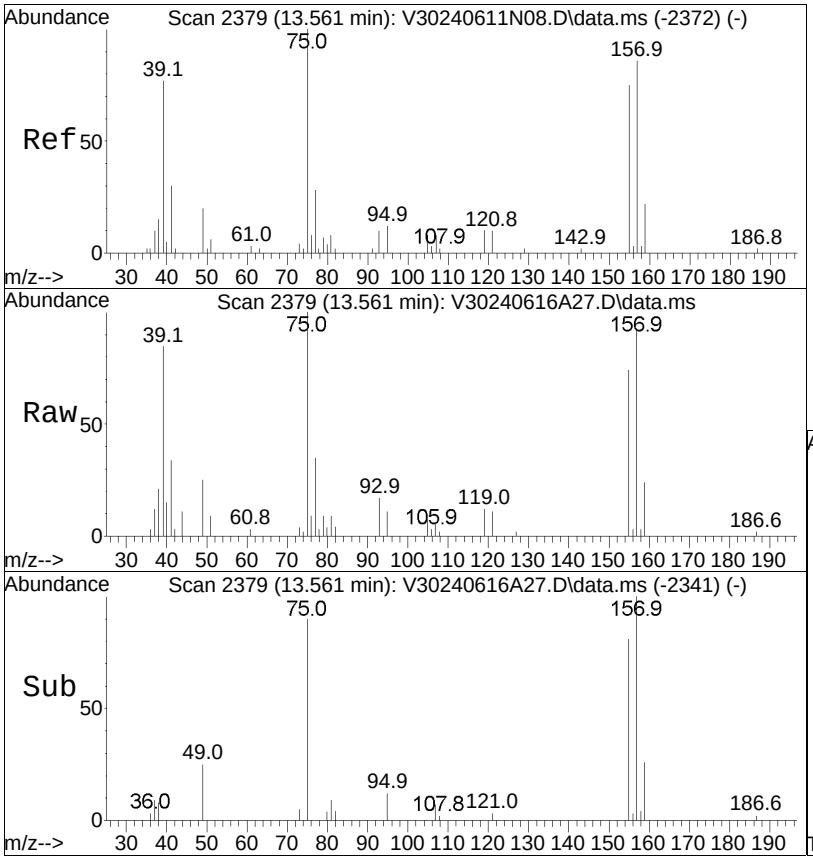


#109
1,2-Dichlorobenzene
Concen: 9.69 ug/L
RT: 12.785 min Scan# 2231
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:146 Resp: 146283

Ion	Ratio	Lower	Upper
146	100		
111	45.0	29.5	61.3
148	62.3	41.3	85.9

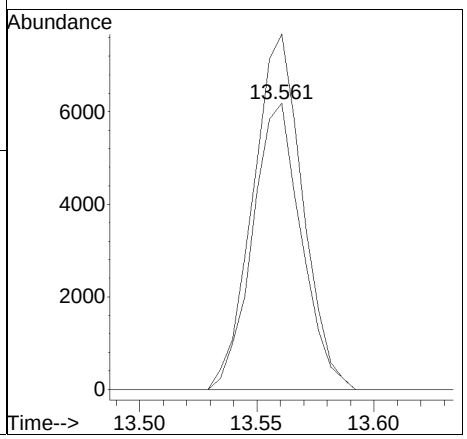


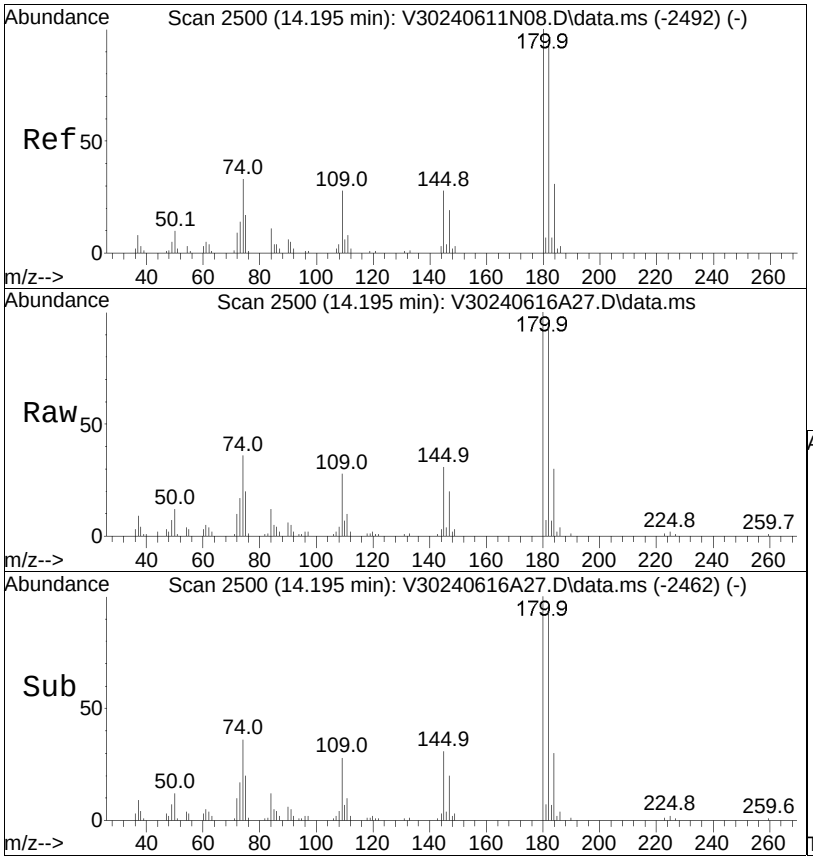


#111
1,2-Dibromo-3-chloropropane
Concen: 8.99 ug/L
RT: 13.561 min Scan# 2379
Delta R.T. 0.001 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:155 Resp: 8971

Ion	Ratio	Lower	Upper
155	100		
157	126.1	105.1	157.7

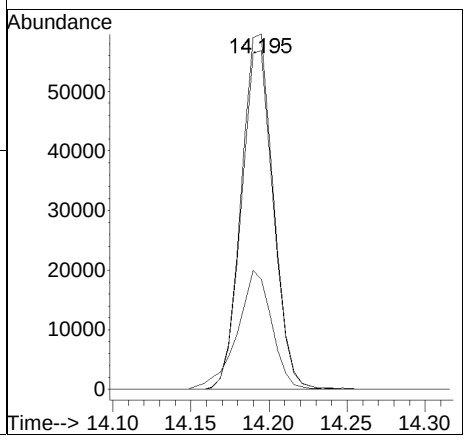


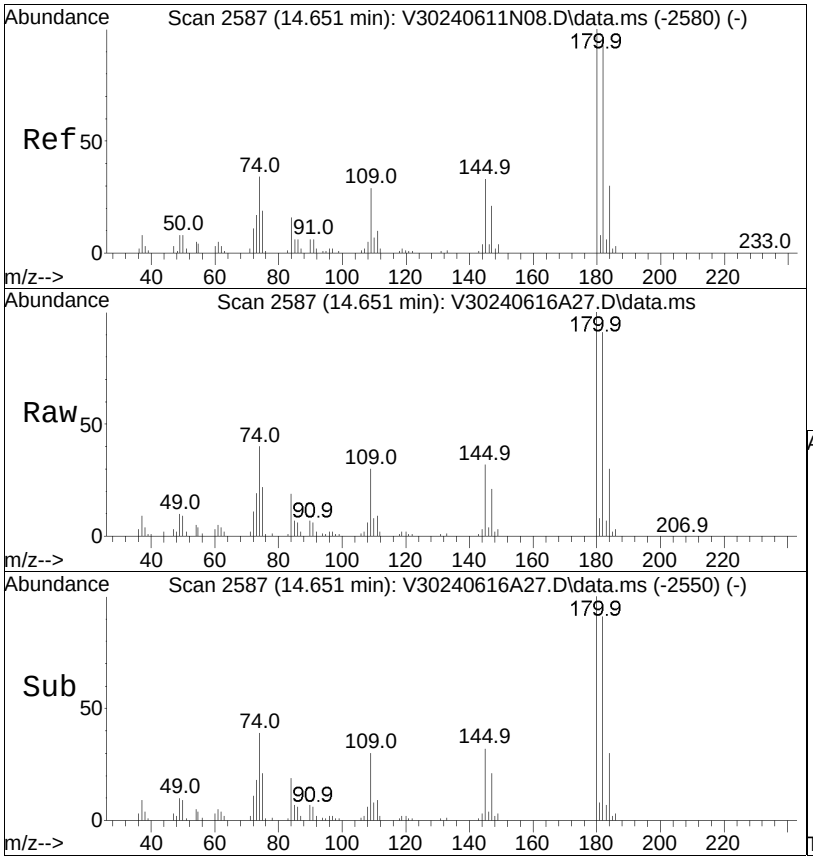


#114
1,2,4-Trichlorobenzene
Concen: 8.82 ug/L
RT: 14.195 min Scan# 2500
Delta R.T. 0.000 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:180 Resp: 85694

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.7	113.5
145	35.9	27.4	41.2

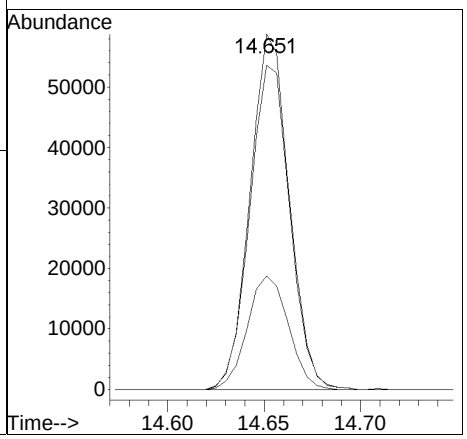




#116
1,2,3-Trichlorobenzene
Concen: 9.21 ug/L
RT: 14.651 min Scan# 2587
Delta R.T. -0.005 min
Lab File: V30240616A27.D
Acq: 16 Jun 2024 04:52 pm

Tgt Ion:180 Resp: 82846

Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.9	112.3
145	33.5	26.0	39.0



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 19 2024, 12:36 pm

Work Group: WG1935824 for Department: 31 GC/MS - Volatiles

Created: 18-JUN-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433035-01	MW-8S	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-02	MW-8D	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-03	MW-1SR	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-04	MW-1DR2	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-05	MP-1	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-06	MP-1D	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-07	PZ-6	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-08	MW-6D	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-09	EB_06122024	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-10	DUP_06122024	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433035-11	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433107-01	SMP-MW-4	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433107-02	SMP-TW-4	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433107-03	SMP-MW-8	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433107-04	DUP-1	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433107-05	TB20240612	S	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433160-01	TWP-1	C	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433160-02	TWP-2	C	NYTCL-8260	WATER	DONE	U	0626	0619	S0	Vial-B
L2433160-03	TB20240612	S	NYTCL-8260	WATER	DONE	U	0624	0619	S0	Vial-B
L2433398-35	TB_06132024	S	NYTCL-8260	WATER	SEC	U	0624	0620	S0	Vial-B
WG1935824-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1935824-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1935824-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1935824-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1935824-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1935824-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1935824-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1935824-4	WG1935824-3
WG1935824-6	L2433035-03
WG1935824-7	L2433035-03

Method

Inst: VOA130 BFB: V10453 GC: 8260

Initials: PID IS/SS: V10443 Autosampler: 8260

Date: **06/11/24** ICAL: V10450D,V10478 Concentrator: 8260

Run: **N** ICV: V10472,V10438,V10439,V10463,V10468,V10473 QC:_____ Seq:_____

Vial	Data File	SAMPLE	pH<2
1	V30240611NBF1	BFB TUNE 12:12	
1	V30240611N01	BLK	
2	V30240611N02	BLK	
3	V30240611N03	I8260STD0.19PPB	
4	V30240611N04	I8260STD0.5PPB	
5	V30240611N05	I8260STD0.5PPB	
6	V30240611N06	I8260STD2PPB	
7	V30240611N07	I8260STD2PPB	
8	V30240611N08	I8260STD10PPB	
9	V30240611N09	I8260STD30PPB	
10	V30240611N10	I8260STD80PPB	
11	V30240611N11	I8260STD120PPB	
12	V30240611N12	I8260STD200PPB	
13	V30240611N13	BLK	
14	V30240611N14	BLK	
15	V30240611N15	BLK	
16	V30240611N16	BLK	
17	V30240611N17	C8260STD10PPB	
18	V30240611N18	C8260STD10PPB	
19	V30240611N19	BLK	

Inst: VOA130 BFB: V10453 Method GC: 8260
Initials: MJV IS/SS: V10443 Autosampler: 8260
Date: **06/16/24** ICAL: V10450D,V10489 Concentrator: 8260
Run: **A** QC:_____ Seq:_____

Vial	Data File	SAMPLE			
1	V30240616ABF3	BFB TUNE 07:01			
1	V30240616A01	8260 CCAL LCS			
2	V30240616A02	8260 CCAL LCSD			
3	V30240616A03	8260 CCAL			
4	V30240616A04	BLK			
5	V30240616A05	METHOD BLK			
6	V30240616A06	I2433398-35,31,10,10,,a	NYTCL/10	TB	pH<2
7	V30240616A07	I2433160-03,31,10,10,,a	NYTCL/10	TB	pH<2
8	V30240616A08	I2433107-05,31,10,10,,a	NYTCL/10	TB	pH<2
9	V30240616A09	I2433035-11,31,10,10,,a	NYTCL CURVE	TB	pH<2
10	V30240616A10	I2433035-01,31,10,10,,a	NYTCL CURVE		pH<2
11	V30240616A11	I2433035-02,31,10,10,,a	NYTCL CURVE		pH<2
12	V30240616A12	I2433035-03,31,10,10,,a	NYTCL CURVE		pH<2
13	V30240616A13	I2433035-04,31,10,10,,a	NYTCL CURVE		pH<2
14	V30240616A14	I2433035-05,31,10,10,,a	NYTCL CURVE		pH<2
15	V30240616A15	I2433035-06,31,10,10,,a	NYTCL CURVE		pH<2
16	V30240616A16	I2433035-07,31,10,10,,a	NYTCL CURVE		pH<2
17	V30240616A17	I2433035-08,31,10,10,,a	NYTCL CURVE		pH<2
18	V30240616A18	I2433035-09,31,10,10,,a	NYTCL CURVE		pH<2
19	V30240616A19	I2433035-10,31,10,10,,a	NYTCL CURVE		pH<2
20	V30240616A20	I2433160-01,31,10,10,,a	NYTCL/10		pH<2
21	V30240616A21	I2433160-02,31,10,10,,a	NYTCL/10		pH<2
22	V30240616A22	I2433107-01,31,10,10,,a	NYTCL/10		pH<2
23	V30240616A23	I2433107-03,31,10,10,,a	NYTCL/10		pH<2
24	V30240616A24	I2433107-04,31,10,10,,a	NYTCL/10		pH<2
25	V30240616A25	I2433107-02,31,10,10,,a	NYTCL/10		pH<2
26	V30240616A26	I2433035-03MS,31,10,10,,a1	NYTCL CURVE		pH<2
27	V30240616A27	I2433035-03MSD,31,10,10,,a2	NYTCL CURVE		pH<2

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934854-2 Analysis Date : 06/16/24 15:54	**File ID**	: 934854-2
LCSD Sample ID	: WG1934854-3 Analysis Date : 06/16/24 16:18	**File ID**	: 934854-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	16.	80	20	16.	81	1	40-140	30
2,4-Dinitrotoluene	20	15.	77	20	15.	74	4	48-143	30
2,6-Dinitrotoluene	20	15.	73	20	14.	72	1	40-140	30
4-Chlorophenyl phenyl ether	20	12.	62	20	12.	62	0	40-140	30
4-Bromophenyl phenyl ether	20	13.	67	20	13.	66	2	40-140	30
Bis(2-chloroisopropyl)ether	20	12.	62	20	12.	62	0	40-140	30
Bis(2-chloroethoxy)methane	20	15.	73	20	14.	69	6	40-140	30
Hexachlorocyclopentadiene	20	7.9	40	20	7.7	39 Q	3	40-140	30
Isophorone	20	15.	74	20	14.	68	8	40-140	30
Nitrobenzene	20	14.	72	20	14.	70	3	40-140	30
NDPA/DPA	20	14.	70	20	14.	71	1	40-140	30
n-Nitrosodi-n-propylamine	20	14.	68	20	14.	68	0	29-132	30
Bis(2-ethylhexyl)phthalate	20	17.	86	20	18.	88	2	40-140	30
Butyl benzyl phthalate	20	18.	90	20	18.	93	3	40-140	30
Di-n-butylphthalate	20	16.	80	20	16.	82	2	40-140	30
Di-n-octylphthalate	20	18.	90	20	18.	89	1	40-140	30
Diethyl phthalate	20	16.	78	20	16.	78	0	40-140	30
Dimethyl phthalate	20	14.	72	20	14.	69	4	40-140	30
Biphenyl	20	12.	61	20	12.	61	0	40-140	30
4-Chloroaniline	20	12.	58	20	12.	59	2	40-140	30
2-Nitroaniline	20	17.	86	20	15.	77	11	52-143	30
3-Nitroaniline	20	16.	80	20	16.	78	3	25-145	30
4-Nitroaniline	20	16.	82	20	16.	82	0	51-143	30
Dibenzofuran	20	13.	65	20	13.	64	2	40-140	30
1,2,4,5-Tetrachlorobenzene	20	10.	51	20	10.	50	2	2-134	30
Acetophenone	20	15.	74	20	14.	69	7	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934854-2 **Analysis Date** : 06/16/24 15:54	**File ID**	: 934854-2
LCSD Sample ID	: WG1934854-3 **Analysis Date** : 06/16/24 16:18	**File ID**	: 934854-3

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	8.6	43	20	15.	77	57	Q	30-130	30
p-Chloro-m-cresol	20	13.	66	20	14.	70	6		23-97	30
2-Chlorophenol	20	9.0	45	20	14.	70	43	Q	27-123	30
2,4-Dichlorophenol	20	9.1	45	20	14.	73	47	Q	30-130	30
2,4-Dimethylphenol	20	14.	69	20	13.	64	8		30-130	30
2-Nitrophenol	20	9.8	49	20	17.	84	53	Q	30-130	30
4-Nitrophenol	20	6.3	31	20	9.4	47	41	Q	10-80	30
2,4-Dinitrophenol	20	9.8	49	20	17.	87	56	Q	20-130	30
4,6-Dinitro-o-cresol	20	9.9	49	20	17.	86	55	Q	20-164	30
Phenol	20	5.8	29	20	7.2	36	22		12-110	30
2-Methylphenol	20	13.	66	20	13.	66	0		30-130	30
3-Methylphenol/4-Methylphenol	20	12.	60	20	12.	59	2		30-130	30
2,4,5-Trichlorophenol	20	9.2	46	20	14.	72	44	Q	30-130	30
Carbazole	20	16.	78	20	15.	75	4		55-144	30
Atrazine	20	16.	78	20	16.	83	6		40-140	30
Benzaldehyde	20	14.	69	20	13.	66	4		40-140	30
Caprolactam	20	4.8	24	20	4.7	24	0		10-130	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935741-2 **Analysis Date** : 06/19/24 10:26	**File ID**	: 935741-2
LCSD Sample ID	: WG1935741-3 **Analysis Date** : 06/19/24 10:50	**File ID**	: 935741-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	20.	102		20	21.	105	3	40-140	30
2,4-Dinitrotoluene	20	20.	98		20	18.	88	11	48-143	30
2,6-Dinitrotoluene	20	18.	92		20	18.	90	2	40-140	30
4-Chlorophenyl phenyl ether	20	16.	78		20	16.	78	0	40-140	30
4-Bromophenyl phenyl ether	20	17.	85		20	16.	82	4	40-140	30
Bis(2-chloroisopropyl)ether	20	7.7	38	Q	20	8.3	41	8	40-140	30
Bis(2-chloroethoxy)methane	20	12.	62		20	13.	67	8	40-140	30
Hexachlorocyclopentadiene	20	10.	50		20	12.	59	17	40-140	30
Isophorone	20	13.	65		20	14.	68	5	40-140	30
Nitrobenzene	20	16.	81		20	18.	90	11	40-140	30
NDPA/DPA	20	18.	90		20	17.	84	7	40-140	30
n-Nitrosodi-n-propylamine	20	12.	61		20	12.	61	0	29-132	30
Bis(2-ethylhexyl)phthalate	20	21.	107		20	22.	108	1	40-140	30
Butyl benzyl phthalate	20	22.	108		20	22.	108	0	40-140	30
Di-n-butylphthalate	20	20.	100		20	19.	97	3	40-140	30
Di-n-octylphthalate	20	24.	118		20	23.	116	2	40-140	30
Diethyl phthalate	20	18.	91		20	18.	88	3	40-140	30
Dimethyl phthalate	20	17.	86		20	17.	84	2	40-140	30
Biphenyl	20	15.	73		20	15.	76	4	40-140	30
4-Chloroaniline	20	7.3	36	Q	20	13.	65	57 Q	40-140	30
2-Nitroaniline	20	19.	95		20	20.	102	7	52-143	30
3-Nitroaniline	20	18.	92		20	18.	92	0	25-145	30
4-Nitroaniline	20	19.	96		20	20.	100	4	51-143	30
Dibenzofuran	20	16.	78		20	15.	76	3	40-140	30
1,2,4,5-Tetrachlorobenzene	20	12.	62		20	13.	64	3	2-134	30
Acetophenone	20	14.	72		20	14.	73	1	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935741-2 **Analysis Date** : 06/19/24 10:26	**File ID**	: 935741-2
LCSD Sample ID	: WG1935741-3 **Analysis Date** : 06/19/24 10:50	**File ID**	: 935741-3

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	15.	74	20	20.	100	30		30-130	30
p-Chloro-m-cresol	20	16.	79	20	16.	82	4		23-97	30
2-Chlorophenol	20	16.	78	20	17.	84	7		27-123	30
2,4-Dichlorophenol	20	17.	84	20	18.	90	7		30-130	30
2,4-Dimethylphenol	20	11.	54	20	12.	62	14		30-130	30
2-Nitrophenol	20	17.	84	20	19.	93	10		30-130	30
4-Nitrophenol	20	6.0	30	20	9.4	47	44	Q	10-80	30
2,4-Dinitrophenol	20	8.8	44	20	20.	100	78	Q	20-130	30
4,6-Dinitro-o-cresol	20	12.	58	20	23.	113	64	Q	20-164	30
Phenol	20	8.9	44	20	9.5	47	7		12-110	30
2-Methylphenol	20	14.	70	20	15.	73	4		30-130	30
3-Methylphenol/4-Methylphenol	20	15.	74	20	14.	72	3		30-130	30
2,4,5-Trichlorophenol	20	17.	87	20	18.	92	6		30-130	30
Carbazole	20	19.	95	20	19.	96	1		55-144	30
Atrazine	20	20.	99	20	20.	100	1		40-140	30
Benzaldehyde	20	14.	72	20	16.	78	8		40-140	30
Caprolactam	20	4.5	23	20	4.9	24	4		10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 17:21
Matrix Spike	: WG1934854-4	**MS Analysis Date**	: 06/18/24 17:45
Matrix Spike Dup	: WG1934854-5	**MSD Analysis Date**	: 06/18/24 18:09

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	ND	20	12.	60		20	18.	90		40 Q	40-140	30
2,4-Dinitrotoluene	ND	20	10.	50		20	17.	85		52 Q	48-143	30
2,6-Dinitrotoluene	ND	20	11.	55		20	16.	80		37 Q	40-140	30
4-Chlorophenyl phenyl ether	ND	20	9.3	47		20	16.	80		53 Q	40-140	30
4-Bromophenyl phenyl ether	ND	20	10.	50		20	16.	80		46 Q	40-140	30
Bis(2-chloroisopropyl)ether	ND	20	5.3	27	Q	20	7.7	39	Q	37 Q	40-140	30
Bis(2-chloroethoxy)methane	ND	20	8.6	43		20	13.	65		41 Q	40-140	30
Hexachlorocyclopentadiene	ND	20	7.1J	36	Q	20	11.J	55		43 Q	40-140	30
Isophorone	ND	20	8.6	43		20	12.	60		33 Q	40-140	30
Nitrobenzene	ND	20	10.	50		20	16.	80		46 Q	40-140	30
NDPA/DPA	ND	20	10.	50		20	16.	80		46 Q	40-140	30
n-Nitrosodi-n-propylamine	ND	20	7.6	38		20	12.	60		45 Q	29-132	30
Bis(2-ethylhexyl)phthalate	ND	20	13.	65		20	18.	90		32 Q	40-140	30
Butyl benzyl phthalate	ND	20	12.	60		20	19.	95		45 Q	40-140	30
Di-n-butylphthalate	ND	20	11.	55		20	17.	85		43 Q	40-140	30
Di-n-octylphthalate	ND	20	13.	65		20	20.	100		42 Q	40-140	30
Diethyl phthalate	ND	20	10.	50		20	16.	80		46 Q	40-140	30
Dimethyl phthalate	ND	20	10.	50		20	15.	75		40 Q	40-140	30
Biphenyl	ND	20	9.1	46		20	14.	70		42 Q	40-140	30
4-Chloroaniline	ND	20	4.6J	23	Q	20	9.0	45		65 Q	40-140	30
2-Nitroaniline	ND	20	12.	60		20	17.	85		34 Q	52-143	30
3-Nitroaniline	ND	20	11.	55		20	16.	80		37 Q	25-145	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 17:21
Matrix Spike	: WG1934854-4	**MS Analysis Date**	: 06/18/24 17:45
Matrix Spike Dup	: WG1934854-5	**MSD Analysis Date**	: 06/18/24 18:09

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
4-Nitroaniline	ND	20	12.	60		20	18.	90		40 Q	51-143	30
Dibenzofuran	ND	20	9.8	49		20	16.	80		48 Q	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	8.4J	42		20	14.	70		50 Q	2-134	30
Acetophenone	ND	20	9.3	47		20	14.	70		40 Q	39-129	30
2,4,6-Trichlorophenol	ND	20	4.1J	21	Q	20	4.9J	25	Q	18	30-130	30
p-Chloro-m-cresol	ND	20	7.3	37		20	12.	60		49 Q	23-97	30
2-Chlorophenol	ND	20	5.6	28		20	6.8	34		19	27-123	30
2,4-Dichlorophenol	ND	20	5.6	28	Q	20	7.1	36		24	30-130	30
2,4-Dimethylphenol	ND	20	5.9	30		20	7.4	37		23	30-130	30
2-Nitrophenol	ND	20	5.2J	26	Q	20	7.0J	35		30	30-130	30
4-Nitrophenol	ND	20	2.9J	15		20	3.3J	17		13	10-80	30
2,4-Dinitrophenol	ND	20	6.0J	30		20	6.7J	34		11	20-130	30
4,6-Dinitro-o-cresol	ND	20	4.9J	25		20	5.4J	27		10	20-164	30
Phenol	3.5J	20	4.0J	20		20	5.9	30		38 Q	12-110	30
2-Methylphenol	ND	20	8.5	43		20	12.	60		34 Q	30-130	30
3-Methylphenol/4-Methylphenol	ND	20	7.7	39		20	10.	50		26	30-130	30
2,4,5-Trichlorophenol	ND	20	5.1	26	Q	20	5.9	30		15	30-130	30
Carbazole	ND	20	11.	55		20	17.	85		43 Q	55-144	30
Atrazine	ND	20	12.	60		20	16.	80		29	40-140	30
Benzaldehyde	ND	20	9.0	45		20	14.	70		43 Q	40-140	30
Caprolactam	ND	20	3.2J	16		20	4.2J	21		27	10-130	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2433035-01)	23	22	51	61	31	68	0
MW-8D (L2433035-02)	17*	19	43	83	25	68	1
MW-1SR (L2433035-03)	32	22	94	69	30	74	0
MW-1DR2 (L2433035-04)	39	26	50	53	71	69	0
MP-1 (L2433035-05)	14*	16	48	60	25	72	1
MP-1D (L2433035-06)	25	22	50	58	47	73	0
PZ-6 (L2433035-07)	28	17	43	42	34	41	0
MW-6D (L2433035-08)	34	21	54	50	39	49	0
EB_06122024 (L2433035-09)	20*	19	55	66	40	70	1
DUP_06122024 (L2433035-10)	47	34	62	78	91	87	0
WG1934854-1BLANK	46	31	66	62	69	67	0
WG1934854-2LCS	29	30	73	69	46	68	0
WG1934854-3LCSD	48	39	72	63	76	67	0
MW-1SRMS	16*	20	40	47	29	55	1
MW-1SRMSD	18*	23	60	70	34	79	1
WG1935741-1BLANK	42	37	62	73	66	102	0
WG1935741-2LCS	49	49	64	77	100	88	0
WG1935741-3LCSD	63	49	61	75	98	89	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-RVT

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934854-1	**Lab File ID**	: 934854-1
Instrument ID	: SV106	**Extraction Date**	: 06/15/24
Matrix	: WATER	**Analysis Date**	: 06/16/24 15:31
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1934854-2LCS	WG1934854-2	06/16/24 15:54
WG1934854-3LCSD	WG1934854-3	06/16/24 16:18
MW-8S	L2433035-01	06/18/24 16:34
MW-8D	L2433035-02	06/18/24 16:57
MW-1SR	L2433035-03	06/18/24 17:21
MW-1SRMS	WG1934854-4	06/18/24 17:45
MW-1SRMSD	WG1934854-5	06/18/24 18:09
MW-1DR2	L2433035-04	06/18/24 18:33
MP-1	L2433035-05	06/18/24 18:57
MP-1D	L2433035-06	06/18/24 19:20
EB_06122024	L2433035-09	06/18/24 20:32
DUP_06122024	L2433035-10	06/18/24 20:56

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935741-1	**Lab File ID**	: 935741-1
Instrument ID	: SV106	**Extraction Date**	: 06/18/24
Matrix	: WATER	**Analysis Date**	: 06/19/24 10:02
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1935741-2LCS	WG1935741-2	06/19/24 10:26
WG1935741-3LCSD	WG1935741-3	06/19/24 10:50
PZ-6	L2433035-07	06/19/24 17:00
MW-6D	L2433035-08	06/19/24 17:26

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 04/18/24 20:26
Tune Standard	: R1819925-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	61.6
443	15.0 - 24.0% of mass 442	12.4 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1819925-9	ABNL9	04/18/24 20:50
ABNL8	R1819925-8	ABNL8	04/18/24 21:14
ABNL7	R1819925-7	ABNL7	04/18/24 21:39
ABNL6	R1819925-5	ABNL6	04/18/24 22:03
ABNL5	R1819925-6	ABNL5	04/18/24 22:27
ABNL4	R1819925-4	ABNL4	04/18/24 22:51
ABNL3	R1819925-3	ABNL3	04/18/24 23:15
ABNL2	R1819925-2	ABNL2	04/18/24 23:39
ABNL1	R1819925-1	ABNL1	04/19/24 00:04
AP9L9	R1819925-26	AP9L9	04/19/24 00:27
AP9L8	R1819925-27	AP9L8	04/19/24 00:51
AP9L7	R1819925-25	AP9L7	04/19/24 01:16
AP9L6	R1819925-24	AP9L6	04/19/24 01:39
AP9L5	R1819925-23	AP9L5	04/19/24 02:03
AP9L4	R1819925-21	AP9L4	04/19/24 02:28
AP9L3	R1819925-22	AP9L3	04/19/24 02:52
AP9L2	R1819925-19	AP9L2	04/19/24 03:16
AP9L1	R1819925-20	AP9L1	04/19/24 03:41
ABN ICV Quant Report	R1819925-29	ABNICV	04/19/24 04:04
AP9 ICV Quant Report	R1819925-30	AP9ICV	04/19/24 04:29

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 04/19/24 04:53
Tune Standard	: R1819925-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.7
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	16.1
442	Base Peak, or >50% of mass 198	68.8
443	15.0 - 24.0% of mass 442	13.4 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1819925-18	ADPL9	04/19/24 05:17
ADPL8	R1819925-17	ADPL8	04/19/24 05:41
ADPL7	R1819925-16	ADPL7	04/19/24 06:05
ADPL6	R1819925-15	ADPL6	04/19/24 06:29
ADPL5	R1819925-14	ADPL5	04/19/24 06:52
ADPL4	R1819925-13	ADPL4	04/19/24 07:16
ADPL3	R1819925-11	ADPL3	04/19/24 07:40
ADPL2	R1819925-12	ADPL2	04/19/24 08:04
ADPL1	R1819925-10	ADPL1	04/19/24 08:27
ADP ICV Quant Report	R1819925-28	ADPICV	04/19/24 08:51

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/16/24 12:43
Tune Standard	: WG1934989-1	**Tune File ID**	: DEG0616_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.9
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	48.7
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	22.8
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	56.5
443	15.0 - 24.0% of mass 442	11.1 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1934989-6TFACTOR-B	WG1934989-6	DEG0616	06/16/24 12:43
WG1934989-7TFACTOR-P	WG1934989-7	DEG0616	06/16/24 12:43
WG1934989-3CCAL	WG1934989-3	ABN0616	06/16/24 13:06
WG1934989-5CCAL	WG1934989-5	ADP0616	06/16/24 13:30
WG1934989-4CCAL	WG1934989-4	AP90616	06/16/24 13:54
WG1934854-1BLANK	WG1934854-1	934854-1	06/16/24 15:31
WG1934854-2LCS	WG1934854-2	934854-2	06/16/24 15:54
WG1934854-3LCSD	WG1934854-3	934854-3	06/16/24 16:18

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/18/24 09:25
Tune Standard	: WG1935854-1	**Tune File ID**	: DEG0618_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.5
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	49.1
197	Less than 2.0% of mass 198	0.6
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	22.8
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16
442	Base Peak, or >50% of mass 198	55.3
443	15.0 - 24.0% of mass 442	10.7 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935854-6TFACTOR-B	WG1935854-6	DEG0618	06/18/24 09:25
WG1935854-7TFACTOR-P	WG1935854-7	DEG0618	06/18/24 09:25
WG1935854-4CCAL	WG1935854-4	AP90618	06/18/24 10:12
WG1935854-3CCAL	WG1935854-3	ABN0618A	06/18/24 10:36
WG1935854-5CCAL	WG1935854-5	ADP0618	06/18/24 11:00
MW-8S	L2433035-01	33035-01	06/18/24 16:34
MW-8D	L2433035-02	33035-02	06/18/24 16:57
MW-1SR	L2433035-03	33035-03	06/18/24 17:21
WG1934854-4MS	WG1934854-4	934854-4	06/18/24 17:45
WG1934854-5MSD	WG1934854-5	934854-5	06/18/24 18:09
MW-1DR2	L2433035-04	33035-04	06/18/24 18:33
MP-1	L2433035-05	33035-05	06/18/24 18:57
MP-1D	L2433035-06	33035-06	06/18/24 19:20
EB_06122024	L2433035-09	33035-09	06/18/24 20:32
DUP_06122024	L2433035-10	33035-10	06/18/24 20:56

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/19/24 08:04
Tune Standard	: WG1936417-1	**Tune File ID**	: DEG0619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32.2
68	Less than 2.0% of mass 69	0.7 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	26
365	Greater than 1.0% of mass 198	3.7
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	76
443	15.0 - 24.0% of mass 442	15.1 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936417-6TFACTOR-B	WG1936417-6	DEG0619	06/19/24 08:04
WG1936417-7TFACTOR-P	WG1936417-7	DEG0619	06/19/24 08:04
WG1936417-4CCAL	WG1936417-4	AP90619	06/19/24 08:51
WG1936417-3CCAL	WG1936417-3	ABN0619A	06/19/24 09:15
WG1936417-5CCAL	WG1936417-5	ADP0619	06/19/24 09:39
WG1935741-1BLANK	WG1935741-1	935741-1	06/19/24 10:02
WG1935741-2LCS	WG1935741-2	935741-2	06/19/24 10:26
WG1935741-3LCSD	WG1935741-3	935741-3	06/19/24 10:50

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.3
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82
443	15.0 - 24.0% of mass 442	16.6 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1836615-11	ABNL9	06/02/24 19:34
ABNL8	R1836615-10	ABNL8	06/02/24 19:59
ABNL7	R1836615-9	ABNL7	06/02/24 20:24
ABNL6	R1836615-8	ABNL6	06/02/24 20:50
ABNL5	R1836615-7	ABNL5	06/02/24 21:15
ABNL4	R1836615-6	ABNL4	06/02/24 21:40
ABNL3	R1836615-5	ABNL3	06/02/24 22:05
ABNL2	R1836615-4	ABNL2	06/02/24 22:30
ABNL1	R1836615-3	ABNL1	06/02/24 22:56
AP9L9	R1836615-29	AP9L9	06/02/24 23:21
AP9L8	R1836615-28	AP9L8	06/02/24 23:47
AP9L7	R1836615-27	AP9L7	06/03/24 00:12
AP9L6	R1836615-25	AP9L6	06/03/24 00:37
AP9L5	R1836615-26	AP9L5	06/03/24 01:08
AP9L4	R1836615-24	AP9L4	06/03/24 01:33
AP9L3	R1836615-23	AP9L3	06/03/24 01:58
AP9L2	R1836615-22	AP9L2	06/03/24 02:23
AP9L1	R1836615-21	AP9L1	06/03/24 02:49
ABN ICV Quant Report	R1836615-30	ABNICV	06/03/24 03:14
AP9 ICV Quant Report	R1836615-32	AP9ICV	06/03/24 03:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.1
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	89.8
443	15.0 - 24.0% of mass 442	17.6 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1836615-20	ADPL9	06/03/24 04:29
ADPL8	R1836615-19	ADPL8	06/03/24 04:54
ADPL7	R1836615-18	ADPL7	06/03/24 05:19
ADPL6	R1836615-17	ADPL6	06/03/24 05:45
ADPL5	R1836615-16	ADPL5	06/03/24 06:10
ADPL4	R1836615-15	ADPL4	06/03/24 06:35
ADPL3	R1836615-14	ADPL3	06/03/24 07:00
ADPL2	R1836615-13	ADPL2	06/03/24 07:25
ADPL1	R1836615-12	ADPL1	06/03/24 07:50
ADP ICV Quant Report	R1836615-31	ADPICV	06/03/24 08:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/19/24 09:41
Tune Standard	: WG1936476-1	**Tune File ID**	: DEG0619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.3
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44.7
197	Less than 2.0% of mass 198	0.5
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	19.4
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	72.7
443	15.0 - 24.0% of mass 442	14.2 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936476-6TFACTOR-B	WG1936476-6	DEG0619	06/19/24 09:41
WG1936476-7TFACTOR-P	WG1936476-7	DEG0619	06/19/24 09:41
WG1936476-3CCAL	WG1936476-3	ABN0619	06/19/24 10:07
WG1936476-4CCAL	WG1936476-4	AP90619	06/19/24 10:32
WG1936476-5CCAL	WG1936476-5	ADP0619	06/19/24 10:58
PZ-6	L2433035-07	33035-07	06/19/24 17:00
MW-6D	L2433035-08	33035-08	06/19/24 17:26

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/16/24 13:06:00
Sample No	: WG1934989-3	**Lab File ID**	: ABN0616

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1934989-3	78956	4.97	280857	6.69	178144	8.47
Upper Limit	157912	5.47	561714	7.19	356288	8.97
Lower Limit	39478	4.47	140429	6.19	89072	7.97
Sample ID						
WG1934989-5 CCAL	63834	4.97	-	-	144241	8.47
WG1934989-4 CCAL	62712	4.97	224940	6.69	142327	8.47
WG1934854-1 BLANK	80180	4.97	285505	6.69	182878	8.47
WG1934854-2 LCS	74627	4.97	274102	6.69	180013	8.47
WG1934854-3 LCSD	79339	4.97	289916	6.69	189846	8.47

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/16/24 13:06:00
Sample No	: WG1934989-3	**Lab File ID**	: ABN0616

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1934989-3	382454	9.87	352521	12.37	391116	13.71
Upper Limit	764908	10.37	705042	12.87	782232	14.21
Lower Limit	191227	9.37	176261	11.87	195558	13.21
Sample ID						
WG1934989-5 CCAL	315611	9.87	-	-	-	-
WG1934989-4 CCAL	312893	9.87	-	-	-	-
WG1934854-1 BLANK	393498	9.87	352919	12.37	390104	13.70
WG1934854-2 LCS	381317	9.87	344774	12.37	376901	13.70
WG1934854-3 LCSD	407131	9.87	366643	12.37	403249	13.70

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/18/24 10:36:00
Sample No	: WG1935854-3	**Lab File ID**	: ABN0618A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1935854-3	59410	4.88	213276	6.64	133811	8.43
Upper Limit	118820	5.38	426552	7.14	267622	8.93
Lower Limit	29705	4.38	106638	6.14	66906	7.93
Sample ID						
WG1935854-4 CCAL	68372	4.90	247905	6.64	155729	8.43
WG1935854-5 CCAL	62740	4.88	-	-	113234	8.43
MW-8S	80138	4.90	249203	6.64	178905	8.43
MW-8D	79305	4.90	200726	6.64	177205	8.43
MW-1SR	62955	4.90	274189	6.64	175215	8.42
MW-1SR MS	49834	4.90	186425	6.64	123060	8.43
MW-1SR MSD	49817	4.90	180450	6.64	115162	8.43
MW-1DR2	48217	4.90	175069	6.64	113498	8.43
MP-1	48494	4.90	166863	6.64	108351	8.43
MP-1D	45891	4.90	159826	6.64	103705	8.43
EB_06122024	42942	4.90	153784	6.64	99461	8.43
DUP_06122024	41234	4.90	149735	6.64	96572	8.43

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/18/24 10:12:00
Sample No	: WG1935854-3	**Lab File ID**	: ABN0618A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1935854-3	278713	9.82	273149	12.31	315272	13.64
Upper Limit	557426	10.32	546298	12.81	630544	14.14
Lower Limit	139357	9.32	136575	11.81	157636	13.14
Sample ID						
WG1935854-4 CCAL	339468	9.82	-	-	-	-
WG1935854-5 CCAL	268207	9.82	-	-	-	-
MW-8S	374553	9.82	333859	12.31	365960	13.63
MW-8D	381295	9.82	342446	12.31	367453	13.63
MW-1SR	372636	9.82	326215	12.31	355443	13.63
MW-1SR MS	265871	9.82	243089	12.31	271291	13.63
MW-1SR MSD	248983	9.82	228671	12.31	259850	13.63
MW-1DR2	246072	9.82	224681	12.31	253696	13.63
MP-1	229697	9.82	217922	12.31	245465	13.63
MP-1D	226853	9.82	209723	12.31	242676	13.63
EB_06122024	221289	9.82	206360	12.31	230166	13.63
DUP_06122024	213129	9.82	200016	12.31	226567	13.63

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/19/24 09:15:00
Sample No	: WG1936417-3	**Lab File ID**	: ABN0619A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1936417-3	59427	4.85	210492	6.61	134114	8.41
Upper Limit	118854	5.35	420984	7.11	268228	8.91
Lower Limit	29714	4.35	105246	6.11	67057	7.91
Sample ID						
WG1936417-4 CCAL	60712	4.86	221960	6.61	147055	8.41
WG1936417-5 CCAL	62958	4.86	-	-	148414	8.41
WG1935741-1 BLANK	55475	4.86	203040	6.61	132490	8.41
WG1935741-2 LCS	57771	4.86	215794	6.61	138731	8.41
WG1935741-3 LCSD	54239	4.87	196734	6.61	131636	8.40

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/19/24 08:51:00
Sample No	: WG1936417-3	**Lab File ID**	: ABN0619A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1936417-3	283169	9.80	267660	12.29	323400	13.61
Upper Limit	566338	10.30	535320	12.79	646800	14.11
Lower Limit	141585	9.30	133830	11.79	161700	13.11
Sample ID						
WG1936417-4 CCAL	316753	9.80	-	-	-	-
WG1936417-5 CCAL	314363	9.80	-	-	-	-
WG1935741-1 BLANK	281492	9.80	266777	12.28	321292	13.61
WG1935741-2 LCS	297159	9.80	273568	12.29	319306	13.61
WG1935741-3 LCSD	268411	9.80	253039	12.29	300355	13.61

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/19/24 10:07:00
Sample No	: WG1936476-3	**Lab File ID**	: ABN0619

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1936476-3	57613	6.10	213781	7.57	127521	9.34
Upper Limit	115226	6.60	427562	8.07	255042	9.84
Lower Limit	28807	5.60	106891	7.07	63761	8.84
Sample ID						
WG1936476-4 CCAL	51997	6.10	189031	7.57	110445	9.34
WG1936476-5 CCAL	54884	6.10	-	-	115892	9.34
PZ-6	72564	6.10	259943	7.57	155948	9.34
MW-6D	69592	6.10	251100	7.57	145177	9.34

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/19/24 10:07:00
Sample No	: WG1936476-3	**Lab File ID**	: ABN0619

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1936476-3	248025	10.77	210632	13.39	199112	14.84
Upper Limit	496050	11.27	421264	13.89	398224	15.34
Lower Limit	124013	10.27	105316	12.89	99556	14.34
Sample ID						
WG1936476-4 CCAL	231080	10.77	-	-	-	-
WG1936476-5 CCAL	247436	10.77	-	-	-	-
PZ-6	320398	10.77	251751	13.39	258296	14.85
MW-6D	294802	10.77	220353	13.39	217685	14.84

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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Date Created: 03/07/23
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File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:34
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:34
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:21
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:21
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	3.5	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:33
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:33
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	3.2	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-05	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-05	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:20
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:20
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	3.5	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:00
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-07	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:00
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-07	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	0.72	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:26
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-08	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:26
Sample Matrix	: WATER	**Date Extracted**	: 06/19/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-08	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.1	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	1.9	10	1.2	J

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 20:32
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-09	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 20:32
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-09	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.0	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 20:56
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-10	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 20:56
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 33035-10	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.4	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934854-1	**Date Collected**	: NA
Client ID	: WG1934854-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 15:31
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 934854-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934854-1	**Date Collected**	: NA
Client ID	: WG1934854-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/24 15:31
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 934854-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935741-1	**Date Collected**	: NA
Client ID	: WG1935741-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 10:02
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 935741-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935741-1	**Date Collected**	: NA
Client ID	: WG1935741-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 10:02
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 935741-1	**Analyst**	: SZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 4:34 pm
Operator : SV106:ek
Sample : L2433035-01,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 18:43:17 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 16:53:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.896	152	80138	4.000	ug/ml		0.01
Standard Area 1 = 59410			Recovery = 134.89%				
27) IS2_1,4-Dichlorobenzen...	4.896	152	80138	4.000	ug/ml		0.00
Standard Area 3 = 68372			Recovery = 117.21%				
34) IS1_Naphthalene-d8	6.637	136	249203	4.000	ug/ml	#	0.00
Standard Area 1 = 213276			Recovery = 116.85%				
54) IS2_Naphthalene-d8	6.637	136	249203	4.000	ug/ml	#	0.00
Standard Area 3 = 247905			Recovery = 100.52%				
62) IS1_Acenaphthene-d10	8.425	164	178905	4.000	ug/ml		0.00
Standard Area 1 = 133811			Recovery = 133.70%				
82) IS2_Acenaphthene-d10	8.425	164	178905	4.000	ug/ml		0.00
Standard Area 3 = 155729			Recovery = 114.88%				
85) IS3_Acenaphthene-d10	8.425	164	178905	4.000	ug/ml		0.00
Standard Area 2 = 113234			Recovery = 158.00%				
87) IS1_Phenanthrene-d10	9.819	188	374553	4.000	ug/ml		0.00
Standard Area 1 = 278713			Recovery = 134.39%				
99) IS3_Phenanthrene-d10	9.819	188	374553	4.000	ug/ml		0.00
Standard Area 2 = 268207			Recovery = 139.65%				
103) IS1_Chrysene-d12	12.307	240	333859	4.000	ug/ml		0.00
Standard Area 1 = 273149			Recovery = 122.23%				
112) IS1_Perylene-d12	13.630	264	365960	4.000	ug/ml		0.00
Standard Area 1 = 315272			Recovery = 116.08%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.019	112	10530	0.465	ug/ml		0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.25%				
7) Phenol-d6	4.454	99	12734	0.435	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.75%				
19) Nitrobenzene-d5	5.795	82	15920	0.508	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 50.80%				
45) 2-Fluorobiphenyl	7.825	172	35460	0.614	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.40%				
78) 2,4,6-Tribromophenol	9.183	330	5932	0.623	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.15%				
95) 4-Terphenyl-d14	11.383	244	54904	0.681	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.10%				

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 4:34 pm
Operator : SV106:ek
Sample : L2433035-01,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 18:43:17 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 16:53:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 4:34 pm
Operator : SV106:ek
Sample : L2433035-01,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 18:43:17 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 16:53:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

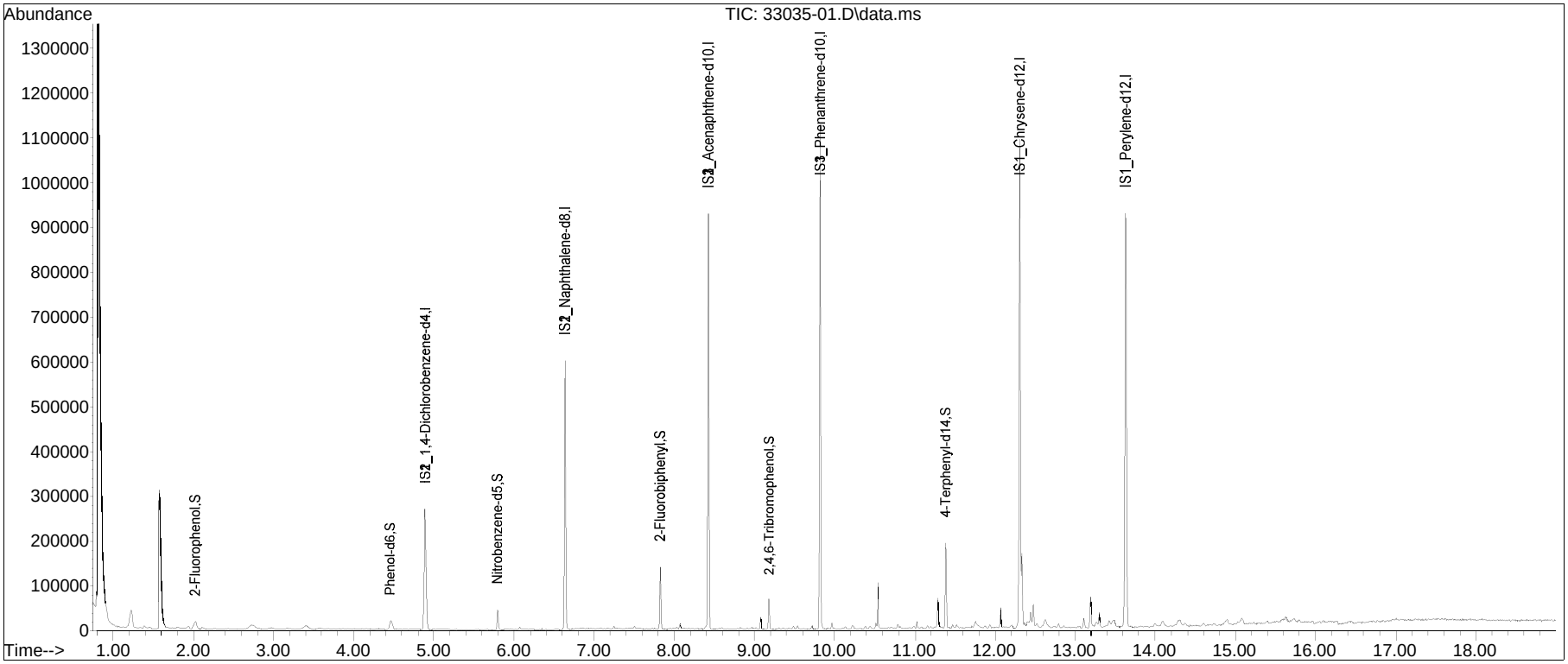
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 4:34 pm
Operator : SV106:ek
Sample : L2433035-01,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 18 18:43:17 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 16:53:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-01.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 4:34 pm	Instrument	: SV 106
Sample	: L2433035-01,32,,HNY	Quant Date	: 6/18/2024 4:53 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 4:57 pm
Operator : SV106:ek
Sample : L2433035-02,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 18:43:33 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:19:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.895	152	79305	4.000	ug/ml		0.01
Standard Area 1 = 59410			Recovery = 133.49%				
27) IS2_1,4-Dichlorobenzen...	4.895	152	79305	4.000	ug/ml		0.00
Standard Area 3 = 68372			Recovery = 115.99%				
34) IS1_Naphthalene-d8	6.636	136	200726	4.000	ug/ml		0.00
Standard Area 1 = 213276			Recovery = 94.12%				
54) IS2_Naphthalene-d8	6.636	136	200726	4.000	ug/ml		0.00
Standard Area 3 = 247905			Recovery = 80.97%				
62) IS1_Acenaphthene-d10	8.425	164	177205	4.000	ug/ml		0.00
Standard Area 1 = 133811			Recovery = 132.43%				
82) IS2_Acenaphthene-d10	8.425	164	177205	4.000	ug/ml		0.00
Standard Area 3 = 155729			Recovery = 113.79%				
85) IS3_Acenaphthene-d10	8.425	164	177205	4.000	ug/ml		0.00
Standard Area 2 = 113234			Recovery = 156.49%				
87) IS1_Phenanthrene-d10	9.819	188	381295	4.000	ug/ml	#	0.00
Standard Area 1 = 278713			Recovery = 136.81%				
99) IS3_Phenanthrene-d10	9.819	188	381295	4.000	ug/ml	#	0.00
Standard Area 2 = 268207			Recovery = 142.16%				
103) IS1_Chrysene-d12	12.307	240	342446	4.000	ug/ml		0.00
Standard Area 1 = 273149			Recovery = 125.37%				
112) IS1_Perylene-d12	13.630	264	367453	4.000	ug/ml		0.00
Standard Area 1 = 315272			Recovery = 116.55%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.019	112	7836	0.349	ug/ml		0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 17.45%				
7) Phenol-d6	4.454	99	10913	0.377	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.85%				
19) Nitrobenzene-d5	5.795	82	13229	0.427	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.70%				
45) 2-Fluorobiphenyl	7.825	172	38569	0.829	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 82.90%				
78) 2,4,6-Tribromophenol	9.183	330	4659	0.494	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.70%				
95) 4-Terphenyl-d14	11.389	244	55979	0.682	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.20%				

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 4:57 pm
Operator : SV106:ek
Sample : L2433035-02,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 18:43:33 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:19:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 4:57 pm
Operator : SV106:ek
Sample : L2433035-02,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 18:43:33 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:19:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

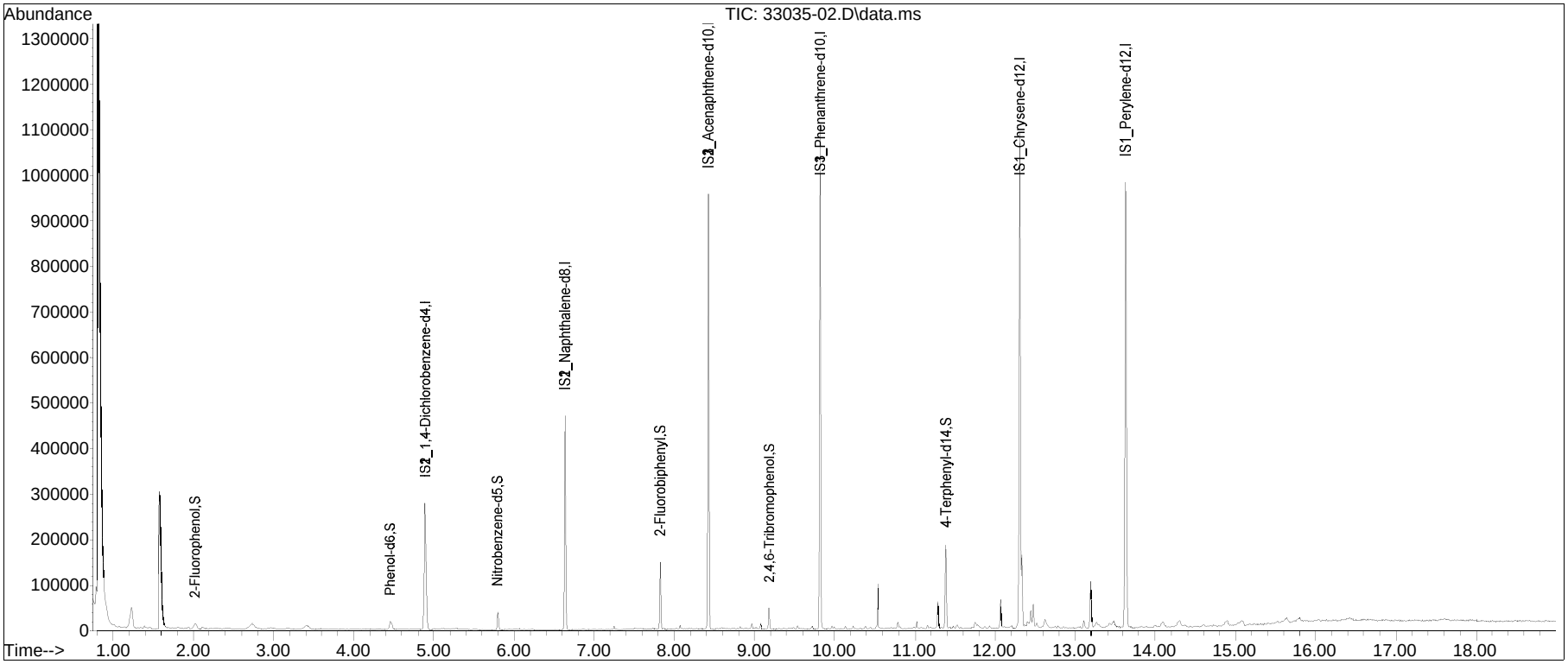
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 4:57 pm
Operator : SV106:ek
Sample : L2433035-02,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 18 18:43:33 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:19:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-02.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 4:57 pm	Instrument	: SV 106
Sample	: L2433035-02,32,,HNY	Quant Date	: 6/18/2024 5:19 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 5:21 pm
Operator : SV106:ek
Sample : L2433035-03,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 19:11:47 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:41:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.895	152	62955	4.000	ug/ml		0.01
Standard Area 1 = 59410			Recovery = 105.97%				
27) IS2_1,4-Dichlorobenzen...	4.895	152	62955	4.000	ug/ml		0.00
Standard Area 3 = 68372			Recovery = 92.08%				
34) IS1_Naphthalene-d8	6.636	136	274189	4.000	ug/ml	#	0.00
Standard Area 1 = 213276			Recovery = 128.56%				
54) IS2_Naphthalene-d8	6.636	136	274189	4.000	ug/ml	#	0.00
Standard Area 3 = 247905			Recovery = 110.60%				
62) IS1_Acenaphthene-d10	8.424	164	175215	4.000	ug/ml		0.00
Standard Area 1 = 133811			Recovery = 130.94%				
82) IS2_Acenaphthene-d10	8.424	164	175215	4.000	ug/ml		0.00
Standard Area 3 = 155729			Recovery = 112.51%				
85) IS3_Acenaphthene-d10	8.424	164	175215	4.000	ug/ml		0.00
Standard Area 2 = 113234			Recovery = 154.74%				
87) IS1_Phenanthrene-d10	9.819	188	372636	4.000	ug/ml	#	0.00
Standard Area 1 = 278713			Recovery = 133.70%				
99) IS3_Phenanthrene-d10	9.819	188	372636	4.000	ug/ml	#	0.00
Standard Area 2 = 268207			Recovery = 138.94%				
103) IS1_Chrysene-d12	12.307	240	326215	4.000	ug/ml		0.00
Standard Area 1 = 273149			Recovery = 119.43%				
112) IS1_Perylene-d12	13.630	264	355443	4.000	ug/ml		0.00
Standard Area 1 = 315272			Recovery = 112.74%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.019	112	11240	0.632	ug/ml		0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.60%				
7) Phenol-d6	4.454	99	10178	0.443	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.15%				
19) Nitrobenzene-d5	5.795	82	23071	0.937	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 93.70%				
45) 2-Fluorobiphenyl	7.824	172	43889	0.690	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.00%				
78) 2,4,6-Tribromophenol	9.183	330	5676	0.609	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.45%				
95) 4-Terphenyl-d14	11.383	244	59385	0.740	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.00%				

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 5:21 pm
Operator : SV106:ek
Sample : L2433035-03,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 19:11:47 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:41:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.484	94	8565	0.350	ug/ml	94
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 5:21 pm
Operator : SV106:ek
Sample : L2433035-03,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 19:11:47 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:41:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

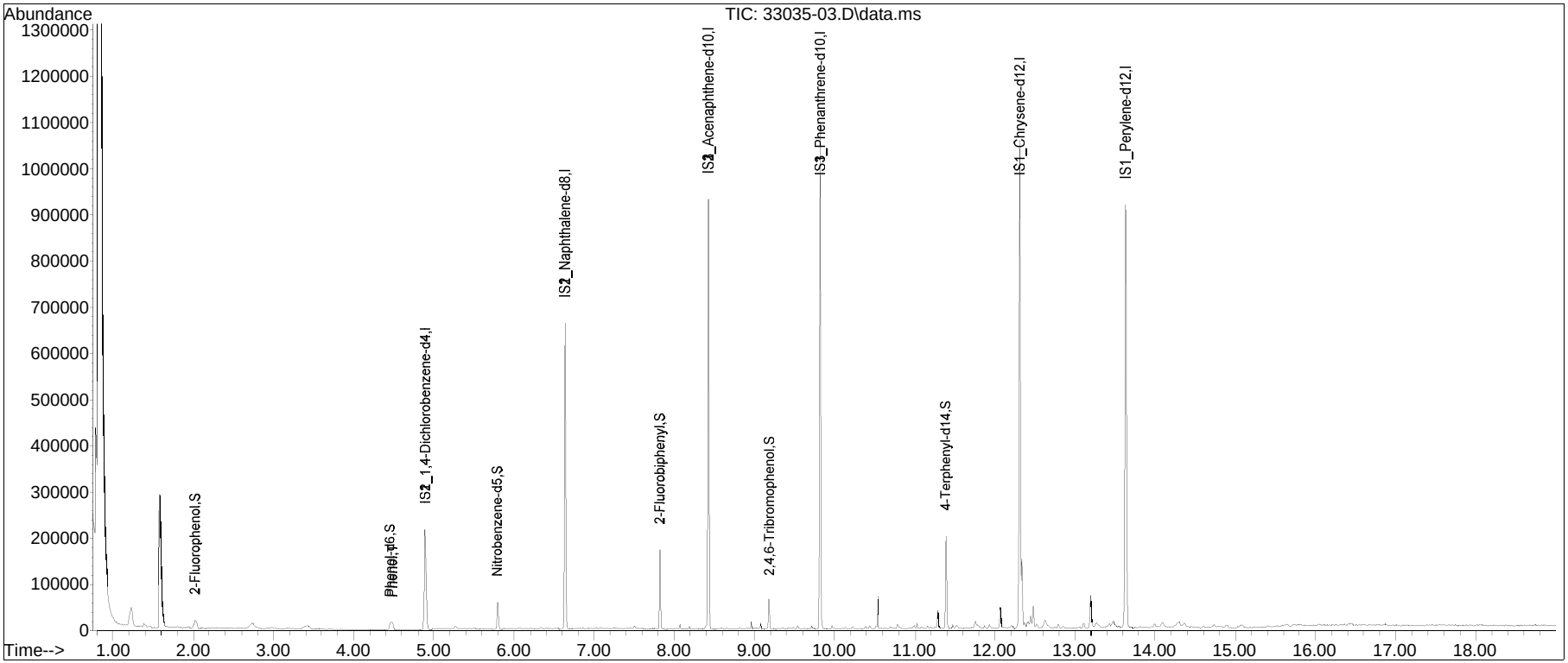
(#) = qualifier out of range (m) = manual integration (+) = signals summed

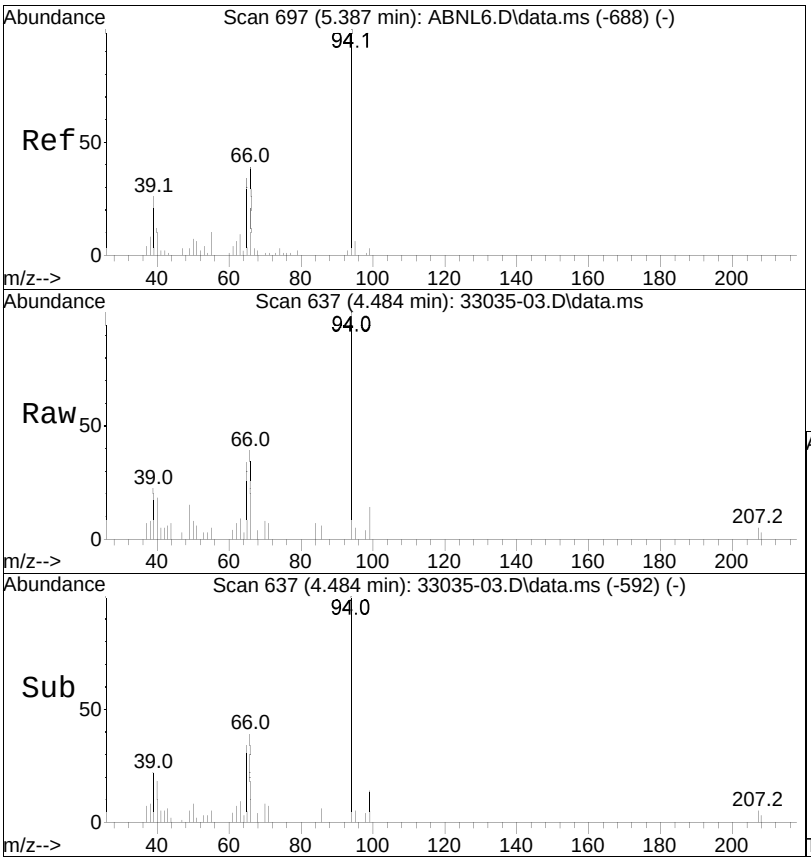
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 5:21 pm
Operator : SV106:ek
Sample : L2433035-03,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 18 19:11:47 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 17:41:33 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

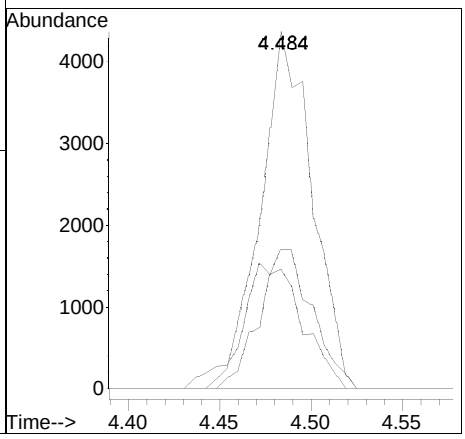




#8
Phenol
Concen: 0.35 ug/ml
RT: 4.484 min Scan# 637
Delta R.T. 0.017 min
Lab File: 33035-03.D
Acq: 18 Jun 2024 5:21 pm

Tgt Ion: 94 Resp: 8565

Ion	Ratio	Lower	Upper
94	100		
65	32.2	26.0	39.0
66	49.2	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-03.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 5:21 pm	Instrument	: SV 106
Sample	: L2433035-03,32,,HNY	Quant Date	: 6/18/2024 5:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 6:33 pm
Operator : SV106:ek
Sample : L2433035-04,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 19:06:19 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:53:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.901	152	48217	4.000	ug/ml	0.02
Standard Area 1 = 59410			Recovery = 81.16%			
27) IS2_1,4-Dichlorobenzen...	4.901	152	48217	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 70.52%			
34) IS1_Naphthalene-d8	6.636	136	175069	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 82.09%			
54) IS2_Naphthalene-d8	6.636	136	175069	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 70.62%			
62) IS1_Acenaphthene-d10	8.425	164	113498	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 84.82%			
82) IS2_Acenaphthene-d10	8.425	164	113498	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 72.88%			
85) IS3_Acenaphthene-d10	8.425	164	113498	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 100.23%			
87) IS1_Phenanthrene-d10	9.819	188	246072	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 88.29%			
99) IS3_Phenanthrene-d10	9.819	188	246072	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 91.75%			
103) IS1_Chrysene-d12	12.307	240	224681	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 82.26%			
112) IS1_Perylene-d12	13.630	264	253696	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 80.47%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.031	112	10528	0.772	ug/ml	0.05
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.60%			
7) Phenol-d6	4.460	99	9173	0.521	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 26.05%			
19) Nitrobenzene-d5	5.801	82	9367	0.497	ug/ml	0.01
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.70%			
45) 2-Fluorobiphenyl	7.825	172	21314	0.525	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.50%			
78) 2,4,6-Tribromophenol	9.183	330	8544	1.415	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 70.75%			
95) 4-Terphenyl-d14	11.383	244	36346	0.686	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.60%			

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 6:33 pm
Operator : SV106:ek
Sample : L2433035-04,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 19:06:19 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:53:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.490	94	5926	0.316	ug/ml#	82
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 6:33 pm
Operator : SV106:ek
Sample : L2433035-04,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 19:06:19 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:53:02 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

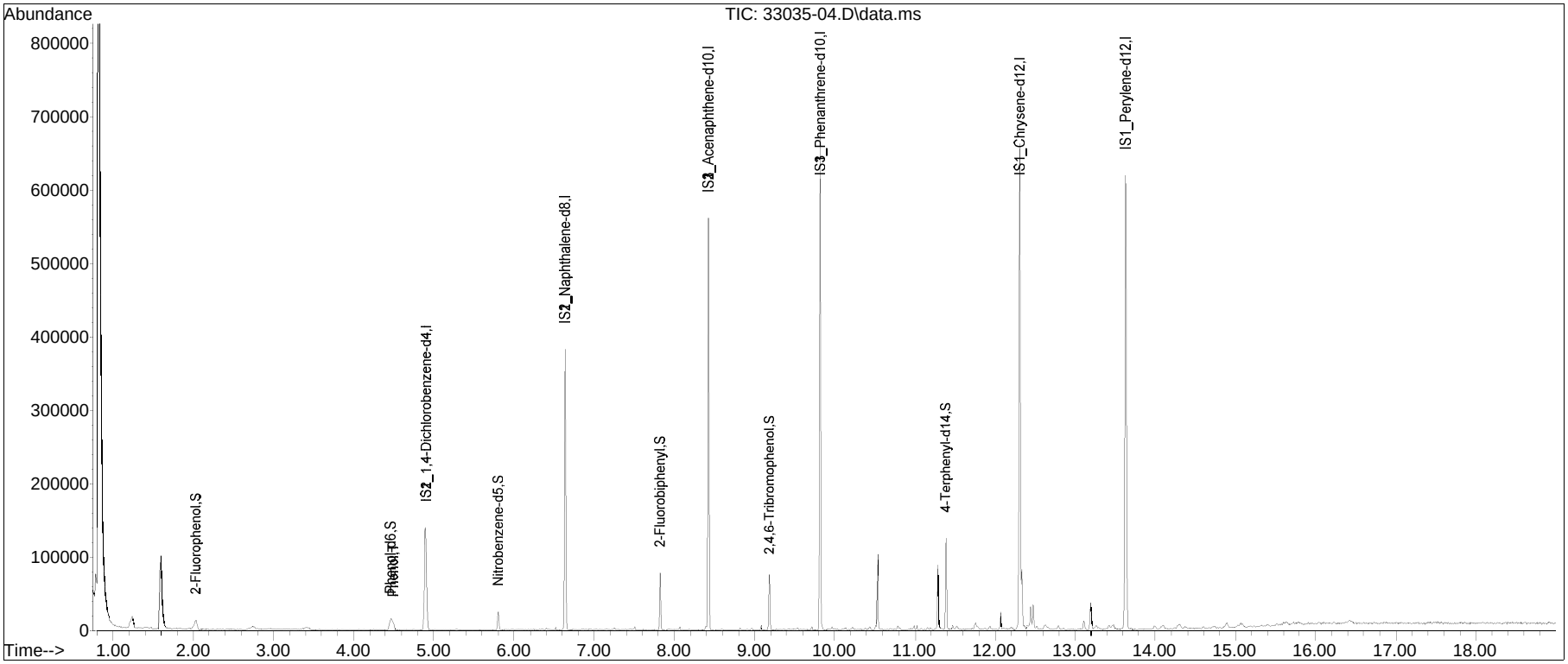
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

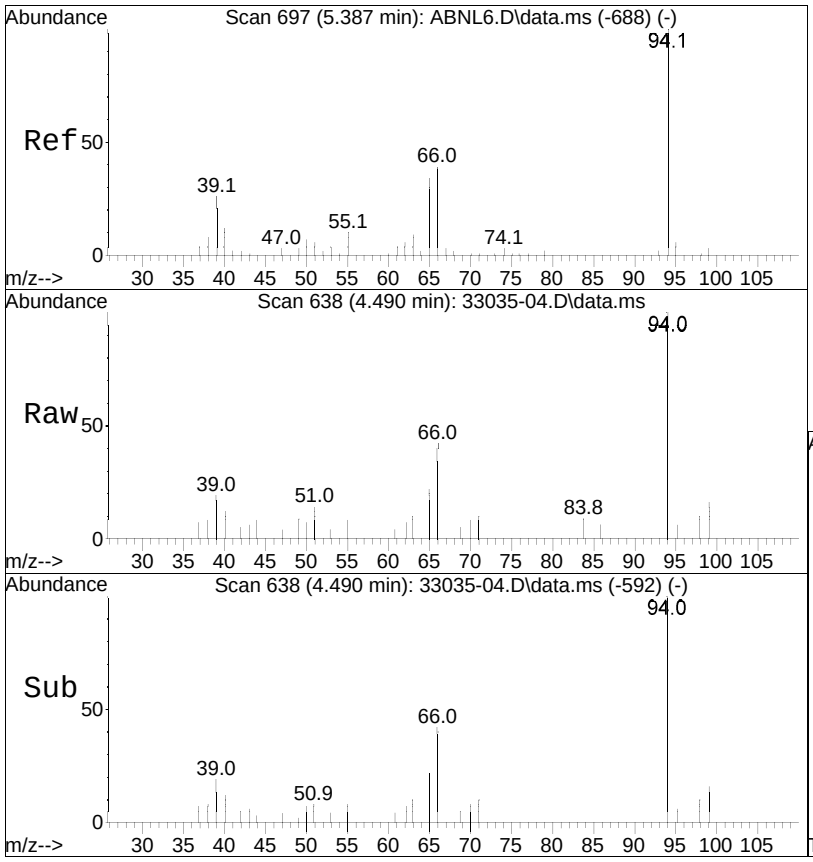
Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 6:33 pm
Operator : SV106:ek
Sample : L2433035-04,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 18 19:06:19 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:53:02 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••



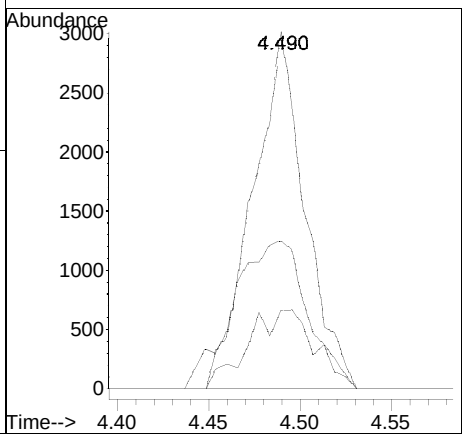
FS240418SV106.m Tue Jun 18 19:07:23 2024 Page: 4



#8
Phenol
Concen: 0.32 ug/ml
RT: 4.490 min Scan# 638
Delta R.T. 0.023 min
Lab File: 33035-04.D
Acq: 18 Jun 2024 6:33 pm

Tgt Ion: 94 Resp: 5926

Ion	Ratio	Lower	Upper
94	100		
65	28.6	26.0	39.0
66	59.1	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-04.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 6:33 pm	Instrument	: SV 106
Sample	: L2433035-04,32,,HNY	Quant Date	: 6/18/2024 6:53 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 6:57 pm
Operator : SV106:ek
Sample : L2433035-05,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 19:19:05 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:17:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.895	152	48494	4.000	ug/ml	0.01
Standard Area 1 = 59410			Recovery = 81.63%			
27) IS2_1,4-Dichlorobenzen...	4.895	152	48494	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 70.93%			
34) IS1_Naphthalene-d8	6.637	136	166863	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 78.24%			
54) IS2_Naphthalene-d8	6.637	136	166863	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 67.31%			
62) IS1_Acenaphthene-d10	8.425	164	108351	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 80.97%			
82) IS2_Acenaphthene-d10	8.425	164	108351	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 69.58%			
85) IS3_Acenaphthene-d10	8.425	164	108351	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 95.69%			
87) IS1_Phenanthrene-d10	9.819	188	229697	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 82.41%			
99) IS3_Phenanthrene-d10	9.819	188	229697	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 85.64%			
103) IS1_Chrysene-d12	12.307	240	217922	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 79.78%			
112) IS1_Perylene-d12	13.630	264	245465	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 77.86%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.031	112	3930	0.287	ug/ml	0.05
Spiked Amount 2.000	Range 15 - 110		Recovery = 14.35%#			
7) Phenol-d6	4.454	99	5800	0.327	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 16.35%			
19) Nitrobenzene-d5	5.795	82	9075	0.479	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 47.90%			
45) 2-Fluorobiphenyl	7.825	172	23050	0.596	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.60%			
78) 2,4,6-Tribromophenol	9.183	330	2919	0.506	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.30%			
95) 4-Terphenyl-d14	11.383	244	35683	0.721	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.10%			

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 6:57 pm
Operator : SV106:ek
Sample : L2433035-05,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 19:19:05 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:17:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 6:57 pm
Operator : SV106:ek
Sample : L2433035-05,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 19:19:05 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:17:22 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

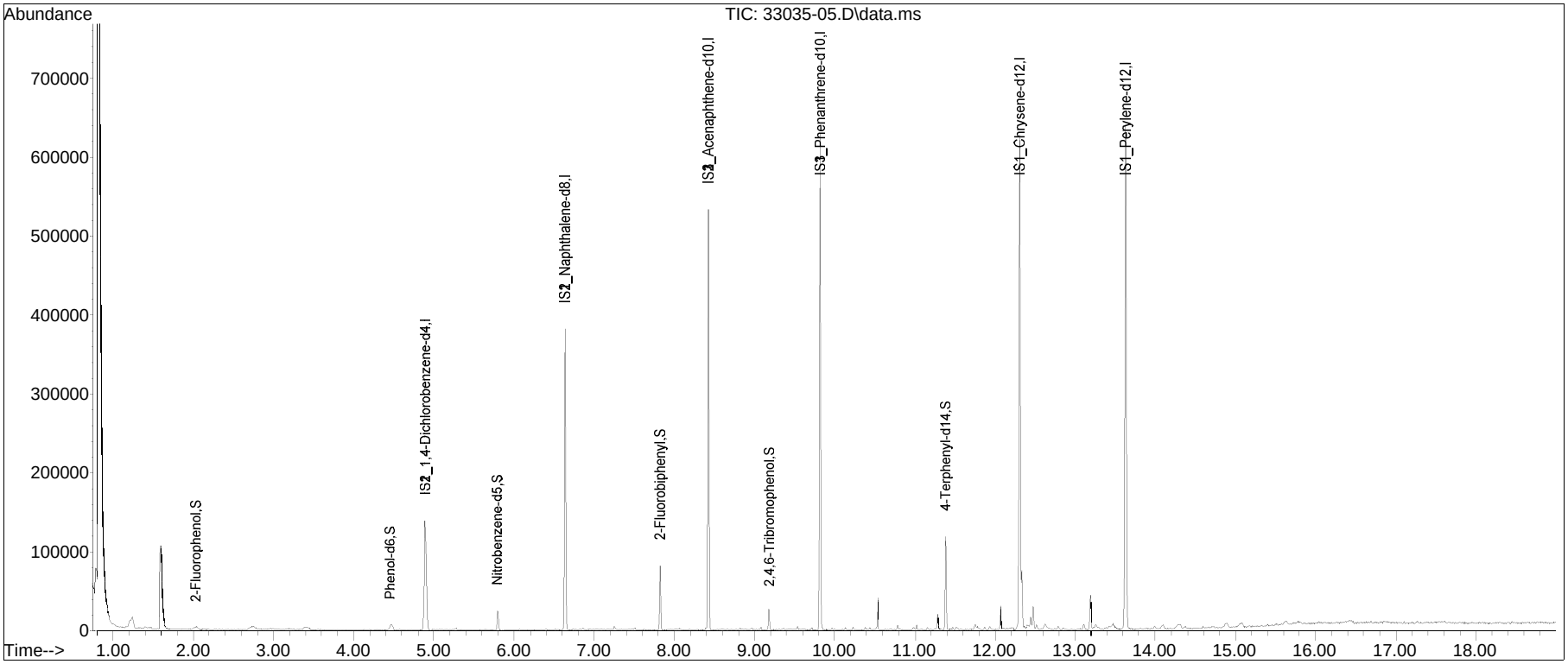
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 6:57 pm
Operator : SV106:ek
Sample : L2433035-05,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 18 19:19:05 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:17:22 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-05.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 6:57 pm	Instrument	: SV 106
Sample	: L2433035-05,32,,HNY	Quant Date	: 6/18/2024 7:17 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 7:20 pm
Operator : SV106:ek
Sample : L2433035-06,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 18 19:53:29 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:41:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.895	152	45891	4.000	ug/ml	0.01
Standard Area 1 = 59410			Recovery = 77.24%			
27) IS2_1,4-Dichlorobenzen...	4.895	152	45891	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 67.12%			
34) IS1_Naphthalene-d8	6.636	136	159826	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 74.94%			
54) IS2_Naphthalene-d8	6.636	136	159826	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 64.47%			
62) IS1_Acenaphthene-d10	8.425	164	103705	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 77.50%			
82) IS2_Acenaphthene-d10	8.425	164	103705	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 66.59%			
85) IS3_Acenaphthene-d10	8.425	164	103705	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 91.58%			
87) IS1_Phenanthrene-d10	9.819	188	226853	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 81.39%			
99) IS3_Phenanthrene-d10	9.819	188	226853	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 84.58%			
103) IS1_Chrysene-d12	12.307	240	209723	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 76.78%			
112) IS1_Perylene-d12	13.630	264	242676	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 76.97%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.031	112	6586	0.508	ug/ml	0.05
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.40%			
7) Phenol-d6	4.466	99	7457	0.445	ug/ml	0.03
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.25%			
19) Nitrobenzene-d5	5.795	82	8953	0.499	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 49.90%			
45) 2-Fluorobiphenyl	7.825	172	21625	0.584	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 58.40%			
78) 2,4,6-Tribromophenol	9.183	330	5146	0.933	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.65%			
95) 4-Terphenyl-d14	11.383	244	35458	0.726	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.60%			

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 7:20 pm
Operator : SV106:ek
Sample : L2433035-06,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 18 19:53:29 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:41:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.490	94	6281	0.352	ug/ml	95
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D. d		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D. d		
52) 2,6-Dinitrotoluene	0.000		0	N.D. d		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 7:20 pm
Operator : SV106:ek
Sample : L2433035-06,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 18 19:53:29 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:41:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

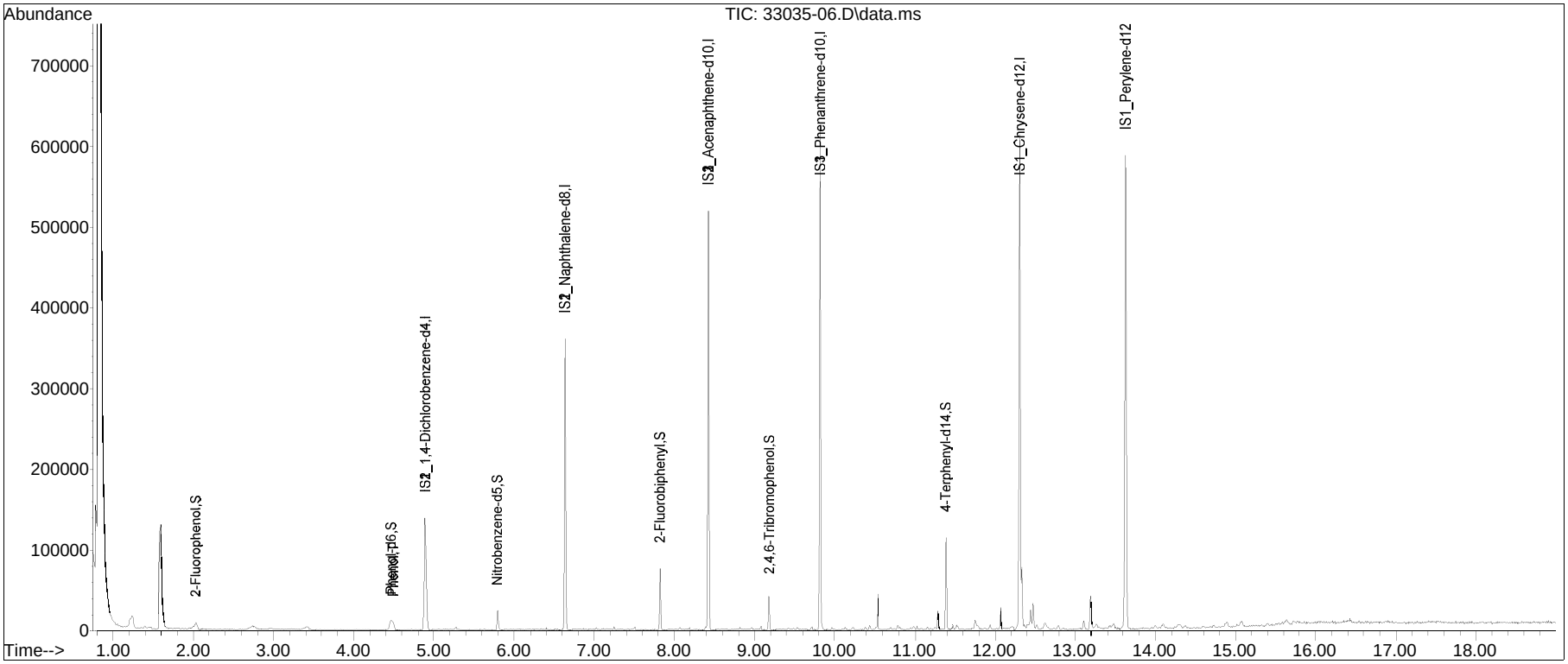
(#) = qualifier out of range (m) = manual integration (+) = signals summed

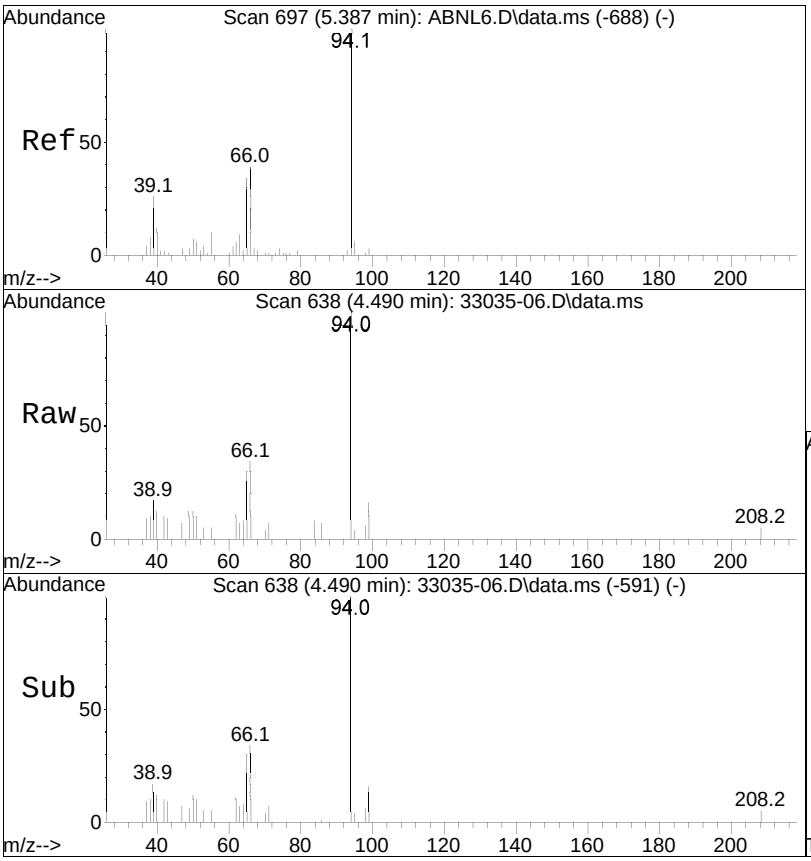
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 7:20 pm
Operator : SV106:ek
Sample : L2433035-06,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 18 19:53:29 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 19:41:03 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

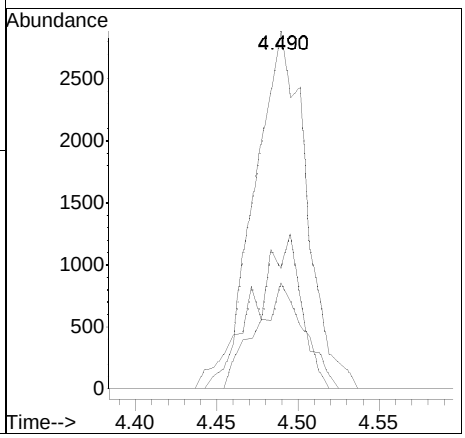




#8
Phenol
Concen: 0.35 ug/ml
RT: 4.490 min Scan# 638
Delta R.T. 0.024 min
Lab File: 33035-06.D
Acq: 18 Jun 2024 7:20 pm

Tgt Ion: 94 Resp: 6281

Ion	Ratio	Lower	Upper
94	100		
65	26.9	26.0	39.0
66	43.0	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-06.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 7:20 pm	Instrument	: SV 106
Sample	: L2433035-06,32,,HNY	Quant Date	: 6/18/2024 7:41 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 8:32 pm
Operator : SV106:ek
Sample : L2433035-09,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 20:52:13 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 20:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.895	152	42942	4.000	ug/ml	0.01
Standard Area 1 = 59410			Recovery = 72.28%			
27) IS2_1,4-Dichlorobenzen...	4.895	152	42942	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 62.81%			
34) IS1_Naphthalene-d8	6.636	136	153784	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 72.11%			
54) IS2_Naphthalene-d8	6.636	136	153784	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 62.03%			
62) IS1_Acenaphthene-d10	8.425	164	99461	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 74.33%			
82) IS2_Acenaphthene-d10	8.425	164	99461	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 63.87%			
85) IS3_Acenaphthene-d10	8.425	164	99461	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 87.84%			
87) IS1_Phenanthrene-d10	9.819	188	221289	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 79.40%			
99) IS3_Phenanthrene-d10	9.819	188	221289	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 82.51%			
103) IS1_Chrysene-d12	12.307	240	206360	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 75.55%			
112) IS1_Perylene-d12	13.630	264	230166	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 73.01%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.043	112	4738	0.390	ug/ml	0.06
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.50%			
7) Phenol-d6	4.460	99	6094	0.389	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.45%			
19) Nitrobenzene-d5	5.801	82	9199	0.548	ug/ml	0.01
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.80%			
45) 2-Fluorobiphenyl	7.825	172	23590	0.662	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.20%			
78) 2,4,6-Tribromophenol	9.183	330	4267	0.806	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.30%			
95) 4-Terphenyl-d14	11.383	244	33270	0.698	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.80%			

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 8:32 pm
Operator : SV106:ek
Sample : L2433035-09,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 20:52:13 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 20:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.495	94	3278	0.196	ug/ml#	91
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 8:32 pm
Operator : SV106:ek
Sample : L2433035-09,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 20:52:13 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 20:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

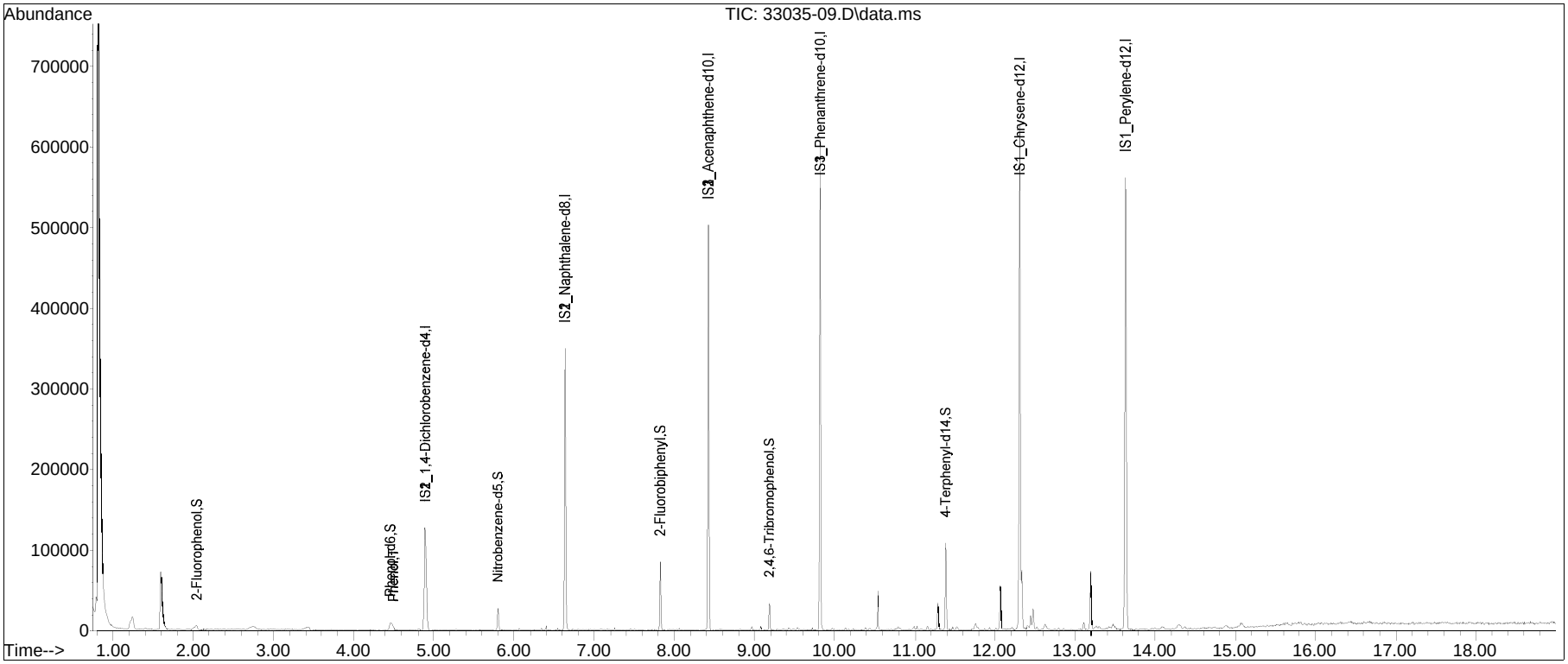
(#) = qualifier out of range (m) = manual integration (+) = signals summed

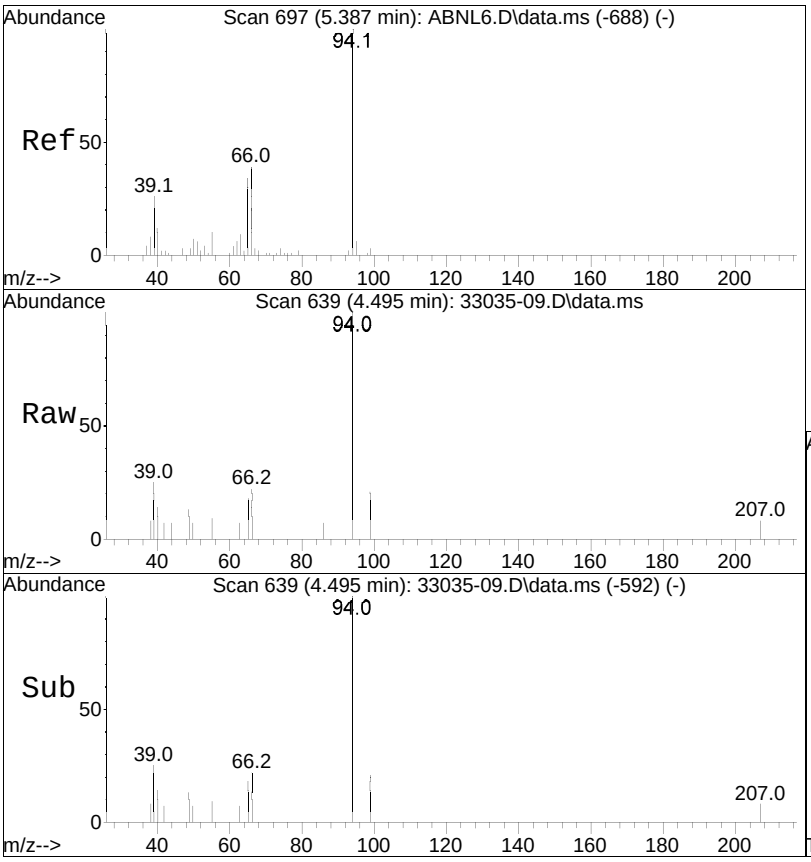
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 8:32 pm
Operator : SV106:ek
Sample : L2433035-09,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 18 20:52:13 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 20:29:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

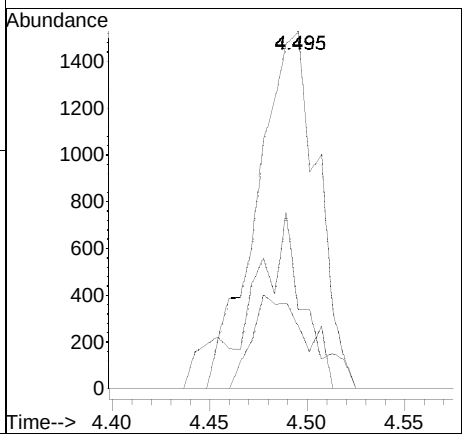




#8
Phenol
Concen: 0.20 ug/ml
RT: 4.495 min Scan# 639
Delta R.T. 0.029 min
Lab File: 33035-09.D
Acq: 18 Jun 2024 8:32 pm

Tgt Ion: 94 Resp: 3278

Ion	Ratio	Lower	Upper
94	100		
65	23.2	26.0	39.0#
66	44.7	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-09.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 8:32 pm	Instrument	: SV 106
Sample	: L2433035-09,32,,HNY	Quant Date	: 6/18/2024 8:52 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 8:56 pm
Operator : SV106:sz
Sample : L2433035-10,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 15:08:56 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.895	152	41234	4.000	ug/ml		0.01
Standard Area 1 = 59410			Recovery = 69.41%				
27) IS2_1,4-Dichlorobenzen...	4.895	152	41234	4.000	ug/ml		0.00
Standard Area 3 = 68372			Recovery = 60.31%				
34) IS1_Naphthalene-d8	6.636	136	149735	4.000	ug/ml		0.00
Standard Area 1 = 213276			Recovery = 70.21%				
54) IS2_Naphthalene-d8	6.636	136	149735	4.000	ug/ml		0.00
Standard Area 3 = 247905			Recovery = 60.40%				
62) IS1_Acenaphthene-d10	8.425	164	96572	4.000	ug/ml		0.00
Standard Area 1 = 133811			Recovery = 72.17%				
82) IS2_Acenaphthene-d10	8.425	164	96572	4.000	ug/ml		0.00
Standard Area 3 = 155729			Recovery = 62.01%				
85) IS3_Acenaphthene-d10	8.425	164	96572	4.000	ug/ml		0.00
Standard Area 2 = 113234			Recovery = 85.29%				
87) IS1_Phenanthrene-d10	9.819	188	213129	4.000	ug/ml	#	0.00
Standard Area 1 = 278713			Recovery = 76.47%				
99) IS3_Phenanthrene-d10	9.819	188	213129	4.000	ug/ml	#	0.00
Standard Area 2 = 268207			Recovery = 79.46%				
103) IS1_Chrysene-d12	12.307	240	200016	4.000	ug/ml		0.00
Standard Area 1 = 273149			Recovery = 73.23%				
112) IS1_Perylene-d12	13.630	264	226567	4.000	ug/ml		0.00
Standard Area 1 = 315272			Recovery = 71.86%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.025	112	10896	0.935	ug/ml		0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.75%				
7) Phenol-d6	4.460	99	10133	0.673	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.65%				
19) Nitrobenzene-d5	5.795	82	9987	0.619	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.90%				
45) 2-Fluorobiphenyl	7.825	172	27045	0.779	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.90%				
78) 2,4,6-Tribromophenol	9.183	330	9316	1.813	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 90.65%				
95) 4-Terphenyl-d14	11.383	244	39729	0.866	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.60%				

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 8:56 pm
Operator : SV106:sz
Sample : L2433035-10,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 15:08:56 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.489	94	3792	0.236	ug/ml#	86
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.	d	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 8:56 pm
Operator : SV106:sz
Sample : L2433035-10,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 15:08:56 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

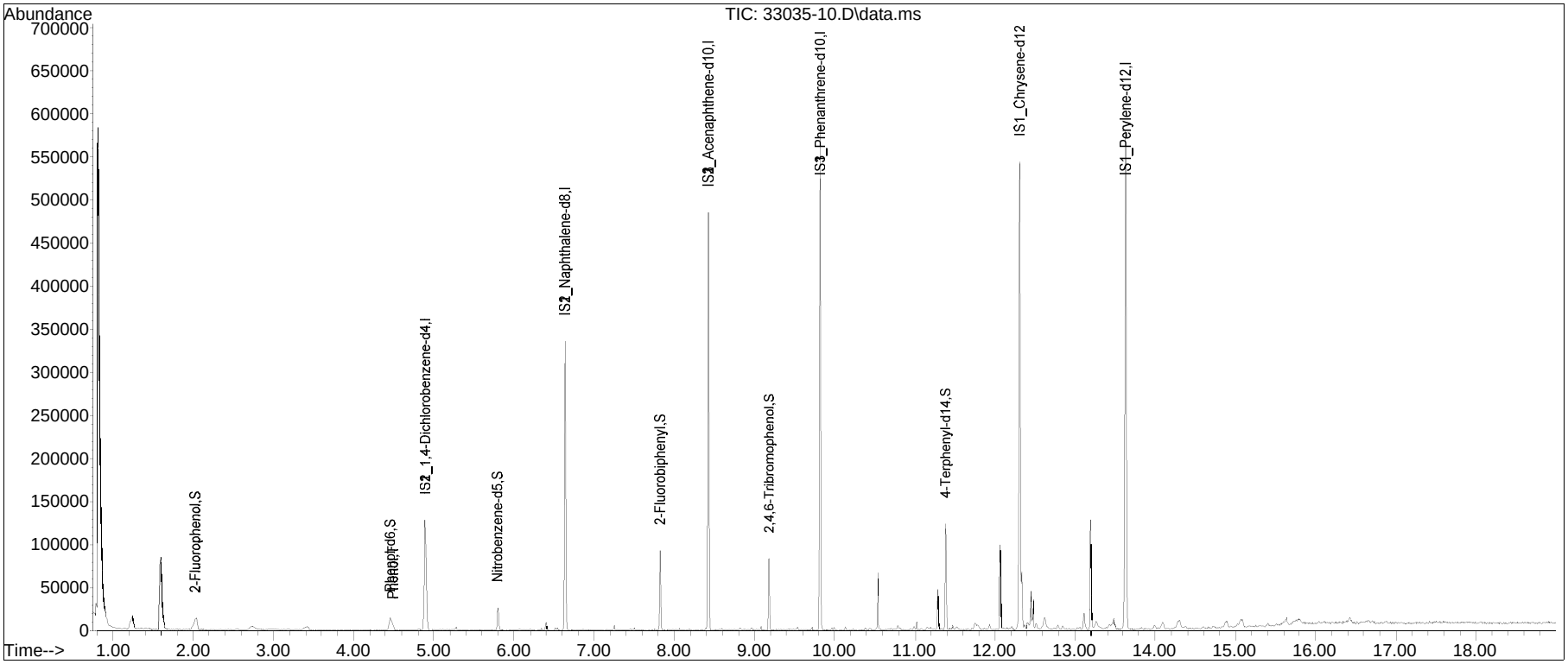
(#) = qualifier out of range (m) = manual integration (+) = signals summed

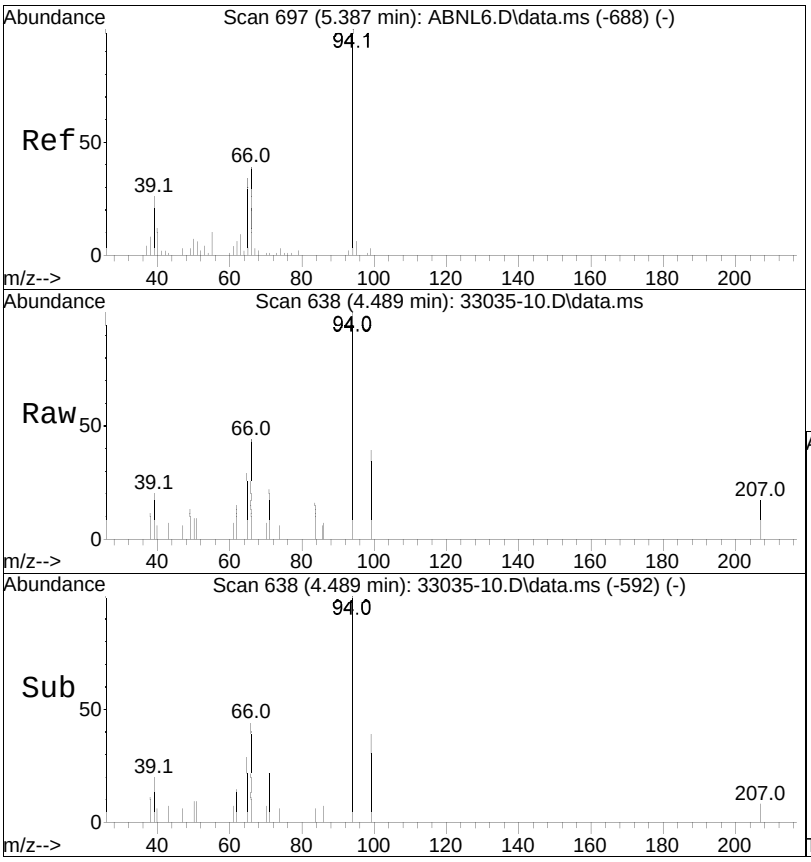
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 8:56 pm
Operator : SV106:sz
Sample : L2433035-10,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 15:08:56 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

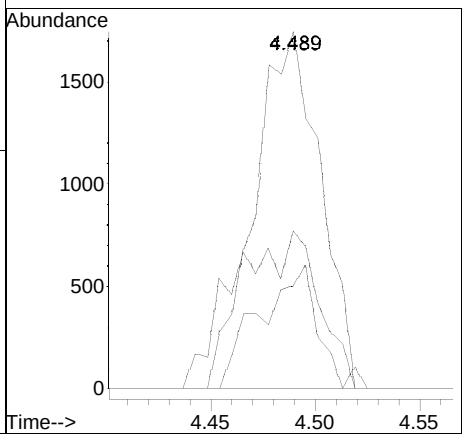




#8
Phenol
Concen: 0.24 ug/ml
RT: 4.489 min Scan# 638
Delta R.T. 0.023 min
Lab File: 33035-10.D
Acq: 18 Jun 2024 8:56 pm

Tgt Ion: 94 Resp: 3792

Ion	Ratio	Lower	Upper
94	100		
65	31.2	26.0	39.0
66	57.4	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 33035-10.D	Operator	: SV106:sz
Date Inj'd	: 6/18/2024 8:56 pm	Instrument	: SV 106
Sample	: L2433035-10,32,,HNY	Quant Date	: 6/18/2024 9:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 5:00 pm
Operator : SV107:sz
Sample : L2433035-07,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 12:58:20 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:20:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.095	152	72564	4.000	ug/ml	0.00
Standard Area 1 = 57613			Recovery = 125.95%			
27) IS2_1,4-Dichlorobenzen...	6.095	152	72564	4.000	ug/ml	0.00
Standard Area 3 = 51997			Recovery = 139.55%			
34) IS1_Naphthalene-d8	7.566	136	259943	4.000	ug/ml	0.00
Standard Area 1 = 213781			Recovery = 121.59%			
54) IS2_Naphthalene-d8	7.566	136	259943	4.000	ug/ml	0.00
Standard Area 3 = 189031			Recovery = 137.51%			
62) IS1_Acenaphthene-d10	9.336	164	155948	4.000	ug/ml	0.00
Standard Area 1 = 127521			Recovery = 122.29%			
82) IS2_Acenaphthene-d10	9.336	164	155948	4.000	ug/ml	0.00
Standard Area 3 = 110445			Recovery = 141.20%			
85) IS3_Acenaphthene-d10	9.336	164	155948	4.000	ug/ml	0.00
Standard Area 2 = 115892			Recovery = 134.56%			
87) IS1_Phenanthrene-d10	10.772	188	320398	4.000	ug/ml	0.00
Standard Area 1 = 248025			Recovery = 129.18%			
99) IS3_Phenanthrene-d10	10.772	188	320398	4.000	ug/ml	0.00
Standard Area 2 = 247436			Recovery = 129.49%			
103) IS1_Chrysene-d12	13.389	240	251751	4.000	ug/ml	0.00
Standard Area 1 = 210632			Recovery = 119.52%			
112) IS1_Perylene-d12	14.848	264	258296	4.000	ug/ml	0.00
Standard Area 1 = 199112			Recovery = 129.72%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.896	112	10680	0.551	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.55%			
7) Phenol-d6	5.731	99	8199	0.342	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 17.10%			
19) Nitrobenzene-d5	6.784	82	8988	0.425	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.50%			
45) 2-Fluorobiphenyl	8.707	172	23475	0.417	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 41.70%			
78) 2,4,6-Tribromophenol	10.107	330	4559	0.686	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.30%			
95) 4-Terphenyl-d14	12.354	244	28603	0.408	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 40.80%			

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 5:00 pm
Operator : SV107:sz
Sample : L2433035-07,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 12:58:20 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:20:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.742	94	1866	0.072	ug/ml#	85
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 5:00 pm
Operator : SV107:sz
Sample : L2433035-07,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 12:58:20 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:20:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

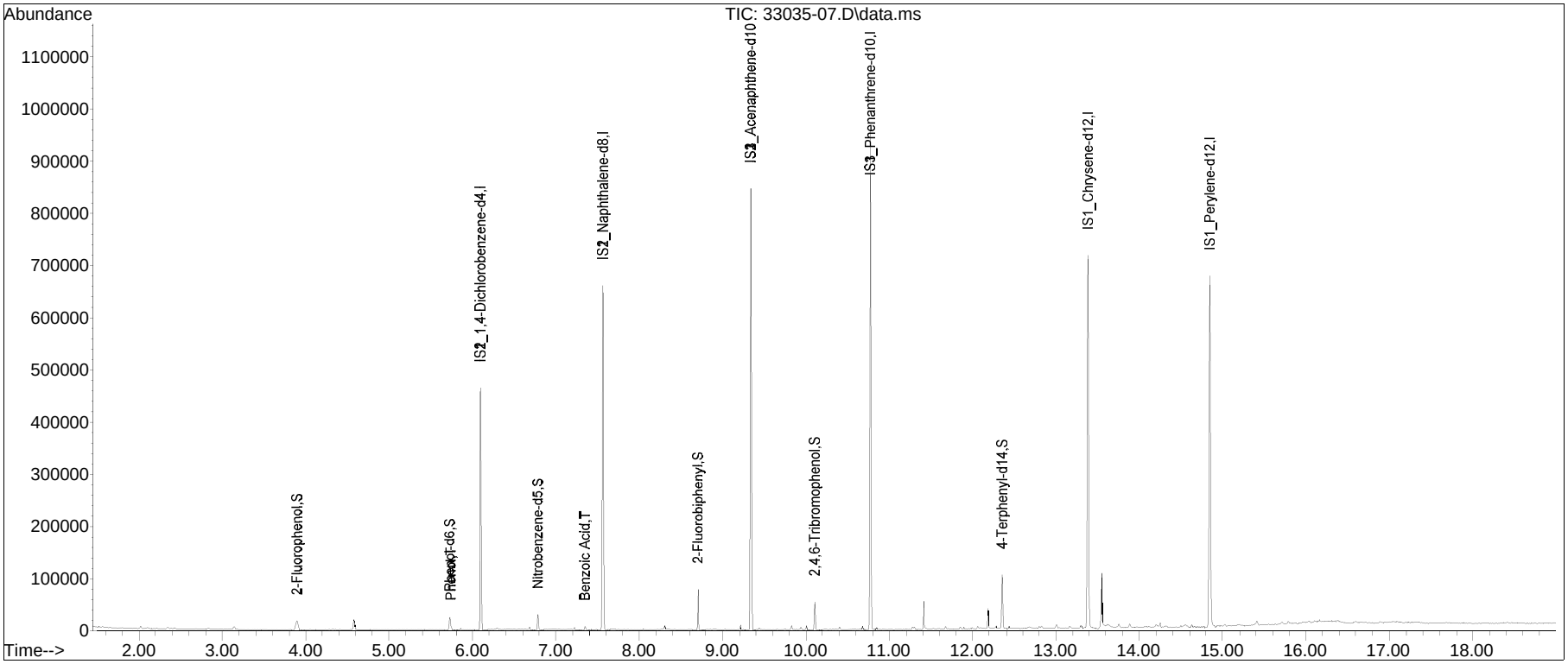
(#) = qualifier out of range (m) = manual integration (+) = signals summed

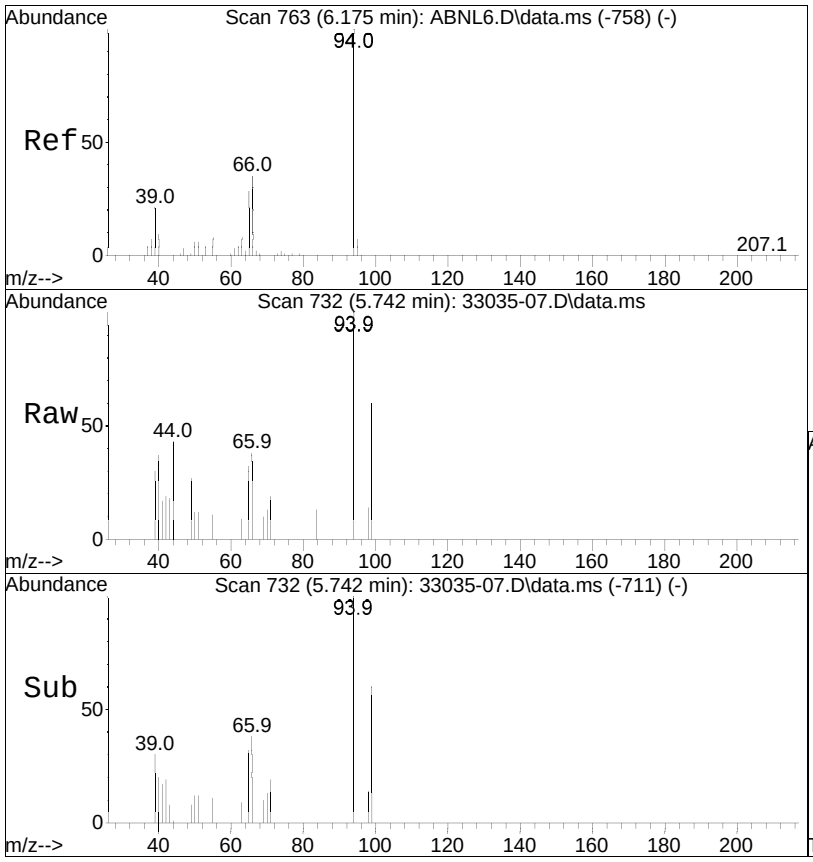
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 5:00 pm
Operator : SV107:sz
Sample : L2433035-07,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 20 12:58:20 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:20:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90619.D•

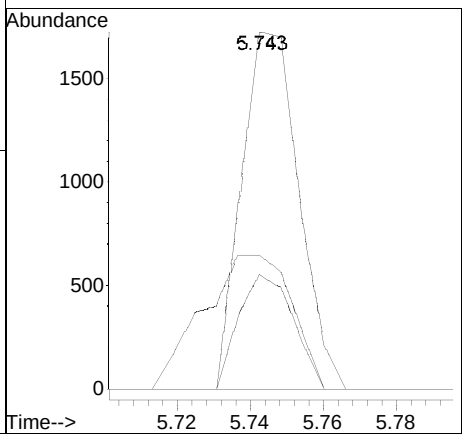




#8
Phenol
Concen: 0.07 ug/ml
RT: 5.742 min Scan# 732
Delta R.T. -0.000 min
Lab File: 33035-07.D
Acq: 19 Jun 2024 5:00 pm

Tgt Ion: 94 Resp: 1866

Ion	Ratio	Lower	Upper
94	100		
65	30.6	26.0	39.0
66	58.0	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV107\240619RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33035-07.D	Operator	: SV107:sz
Date Inj'd	: 6/19/2024 5:00 pm	Instrument	: SV107
Sample	: L2433035-07,32,,RE,gmr	Quant Date	: 6/19/2024 5:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 5:26 pm
Operator : SV107:sz
Sample : L2433035-08,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 12:58:36 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:46:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.095	152	69592	4.000	ug/ml	0.00
Standard Area 1 = 57613			Recovery = 120.79%			
27) IS2_1,4-Dichlorobenzen...	6.095	152	69592	4.000	ug/ml	0.00
Standard Area 3 = 51997			Recovery = 133.84%			
34) IS1_Naphthalene-d8	7.566	136	251100	4.000	ug/ml	0.00
Standard Area 1 = 213781			Recovery = 117.46%			
54) IS2_Naphthalene-d8	7.566	136	251100	4.000	ug/ml	0.00
Standard Area 3 = 189031			Recovery = 132.84%			
62) IS1_Acenaphthene-d10	9.336	164	145177	4.000	ug/ml	0.00
Standard Area 1 = 127521			Recovery = 113.85%			
82) IS2_Acenaphthene-d10	9.336	164	145177	4.000	ug/ml	0.00
Standard Area 3 = 110445			Recovery = 131.45%			
85) IS3_Acenaphthene-d10	9.336	164	145177	4.000	ug/ml	0.00
Standard Area 2 = 115892			Recovery = 125.27%			
87) IS1_Phenanthrene-d10	10.772	188	294802	4.000	ug/ml	0.00
Standard Area 1 = 248025			Recovery = 118.86%			
99) IS3_Phenanthrene-d10	10.772	188	294802	4.000	ug/ml	0.00
Standard Area 2 = 247436			Recovery = 119.14%			
103) IS1_Chrysene-d12	13.389	240	220353	4.000	ug/ml	0.00
Standard Area 1 = 210632			Recovery = 104.62%			
112) IS1_Perylene-d12	14.842	264	217685	4.000	ug/ml	0.00
Standard Area 1 = 199112			Recovery = 109.33%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.895	112	12535	0.674	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.70%			
7) Phenol-d6	5.731	99	9841	0.428	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.40%			
19) Nitrobenzene-d5	6.789	82	10967	0.541	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.10%			
45) 2-Fluorobiphenyl	8.707	172	27283	0.502	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 50.20%			
78) 2,4,6-Tribromophenol	10.107	330	4865	0.786	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 39.30%			
95) 4-Terphenyl-d14	12.354	244	31366	0.486	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 48.60%			

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 5:26 pm
Operator : SV107:sz
Sample : L2433035-08,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 12:58:36 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:46:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	5.748	94	5250	0.210	ug/ml	93
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	8.001	55	1751	0.187	ug/ml#	81
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 5:26 pm
Operator : SV107:sz
Sample : L2433035-08,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 12:58:36 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:46:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\240619RVT\ABN0619.D
: 2 - I:\8270\sv107\240619RVT\ADP0619.D
: 3 - I:\8270\sv107\240619RVT\AP90619.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

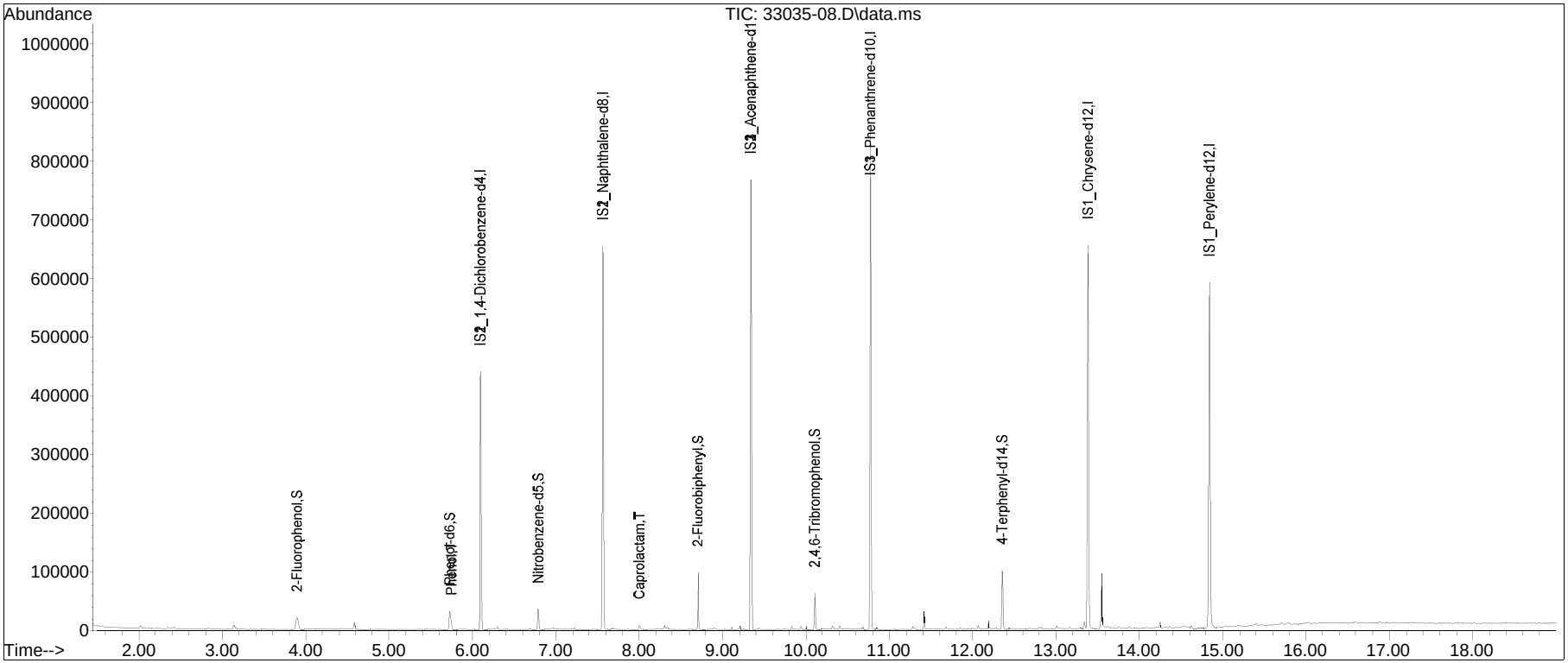
(#) = qualifier out of range (m) = manual integration (+) = signals summed

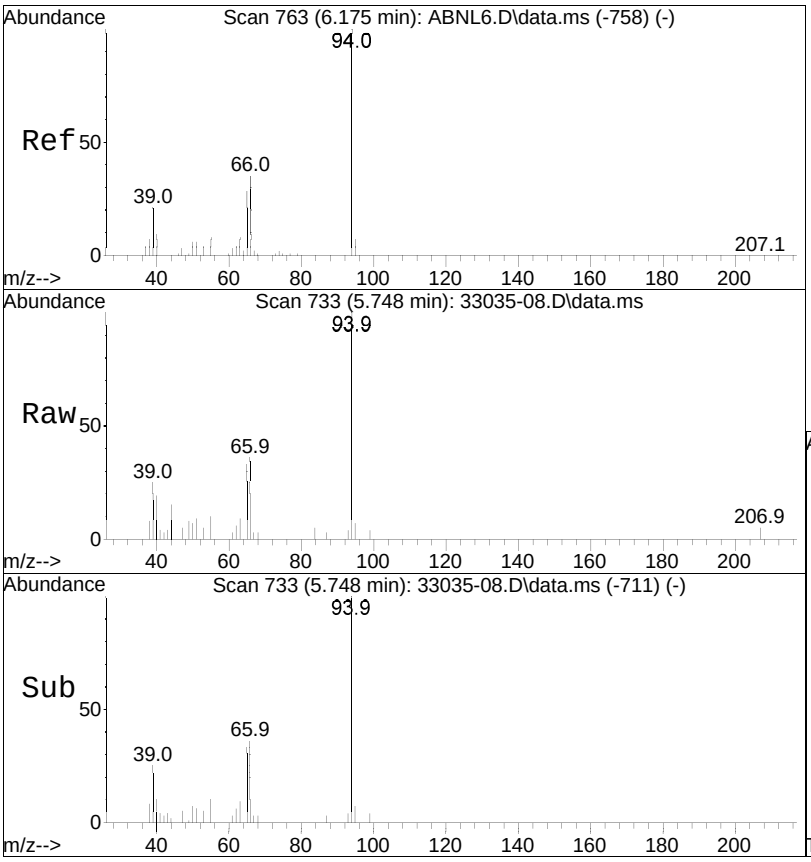
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 5:26 pm
Operator : SV107:sz
Sample : L2433035-08,32,,RE,gmr
Misc : WG1936476,WG1935741,ical21169
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 12:58:36 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 17:46:31 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90619.D•

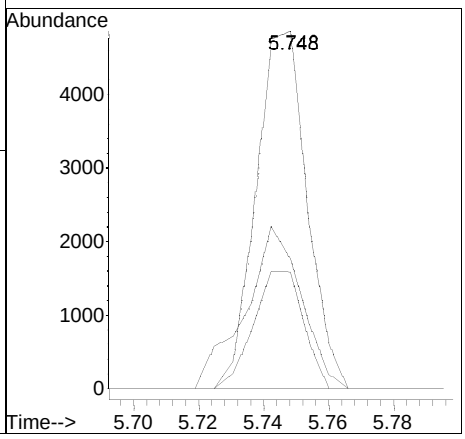


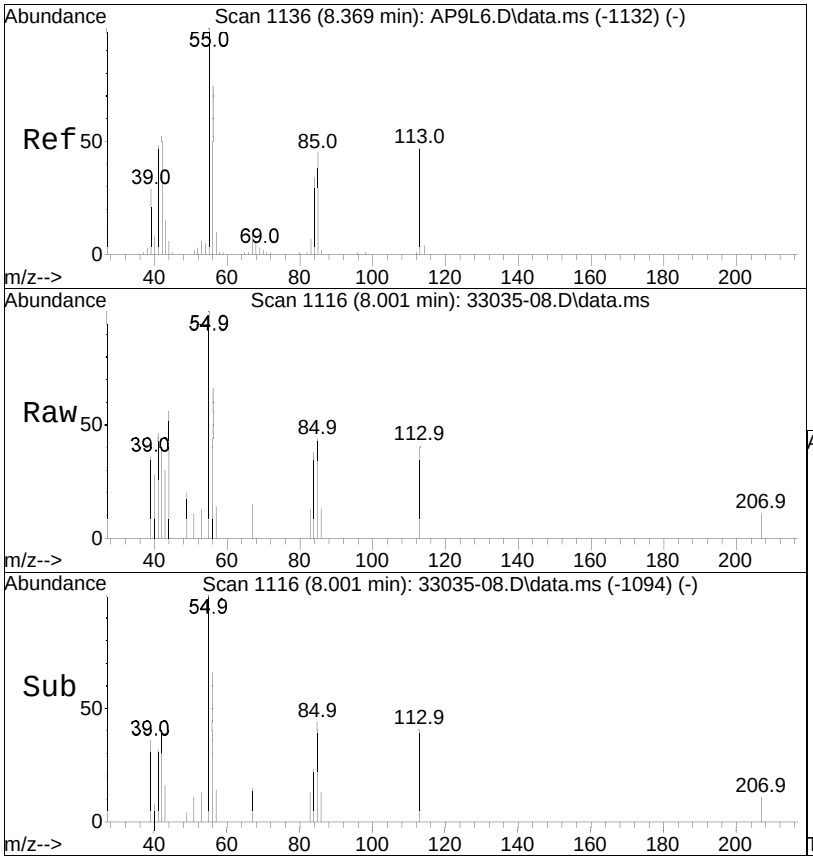


#8
Phenol
Concen: 0.21 ug/ml
RT: 5.748 min Scan# 733
Delta R.T. 0.006 min
Lab File: 33035-08.D
Acq: 19 Jun 2024 5:26 pm

Tgt Ion: 94 Resp: 5250

Ion	Ratio	Lower	Upper
94	100		
65	32.3	26.0	39.0
66	50.3	33.8	50.8

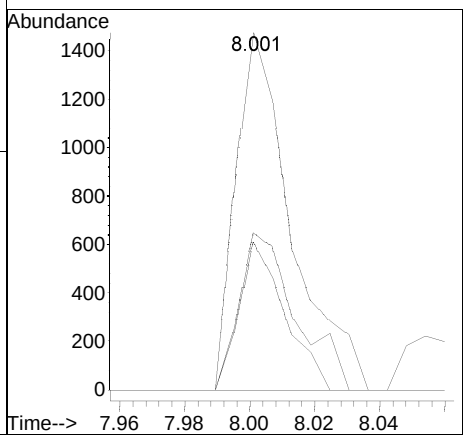




#59
Caprolactam
Concen: 0.19 ug/ml
RT: 8.001 min Scan# 1116
Delta R.T. 0.006 min
Lab File: 33035-08.D
Acq: 19 Jun 2024 5:26 pm

Tgt Ion: 55 Resp: 1751

Ion	Ratio	Lower	Upper
55	100		
85	44.7	19.8	29.6#
113	34.1	29.6	44.4



Manual Integration Report

Data Path	: I:\8270\SV107\240619RVT\	QMethod	: FS240602SV107RVT.m
Data File	: 33035-08.D	Operator	: SV107:sz
Date Inj'd	: 6/19/2024 5:26 pm	Instrument	: SV107
Sample	: L2433035-08,32,,RE,gmr	Quant Date	: 6/19/2024 5:46 pm

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.968	0.876	0.795	0.712	0.716	0.723	0.786	0.742	0.782	0.789	10.74
3)	t	Pyridine	1.136	1.084	1.172	1.015	1.203	1.217	1.311	1.188	1.300	1.181	8.03
4)	S	2-Fluorophenol	1.289	1.192	1.243	0.950	1.045	1.048	1.168	1.113	1.130	1.131	9.38
5)	T	Aniline	1.834	2.142	2.040	1.688	1.781	1.758	1.922	1.894	1.950	1.890	7.57
6)	t	2-Chlorophenol	1.323	1.334	1.263	1.096	1.133	1.181	1.255	1.236	1.244	1.230	6.52
7)	S	Phenol-d6	1.373	1.576	1.557	1.359	1.370	1.397	1.504	1.487	1.524	1.461	5.90
8)	T	Phenol	1.480	1.629	1.750	1.453	1.451	1.482	1.624	1.553	1.586	1.557	6.48
9)	T	bis(2-Chloroethyl)ether	1.240	1.284	1.284	1.181	1.184	1.171	1.264	1.218	1.234	1.229	3.56
10)	T	1,3-Dichlorobenzene	1.414	1.708	1.498	1.353	1.282	1.323	1.450	1.379	1.398	1.423	8.78
11)	T	1,4-Dichlorobenzene	1.682	1.802	1.617	1.324	1.337	1.326	1.454	1.407	1.428	1.486	11.65
12)	T	1,2-Dichlorobenzene	1.243	1.545	1.532	1.262	1.251	1.266	1.381	1.356	1.375	1.357	8.58
13)	t	Benzyl alcohol	1.190	1.197	1.234	1.110	1.093	1.148	1.244	1.232	1.253	1.189	4.99
14)	T	bis(2-chloroisopropyl)ether	1.917	2.024	1.974	1.726	1.655	1.719	1.809	1.765	1.763	1.817	6.94
15)	T	2-Methylphenol	1.320	1.082	1.146	0.988	1.016	1.032	1.138	1.108	1.137	1.108	8.89
16)	T	Hexachloroethane	0.633	0.623	0.632	0.569	0.596	0.581	0.607	0.605	0.607	0.606	3.58
17)	T	n-Nitrosodi-n-propylamine	1.033	1.166	1.043	0.992	0.928	1.003	1.060	1.029	1.055	1.034	6.17
18)	T	3-Methylphenol/4-Methylphenol	1.184	1.306	1.347	1.088	1.135	1.134	1.237	1.192	1.211	1.204	6.91
19)	S	Nitrobenzene-d5	1.535	1.656	1.696	1.494	1.413	1.503	1.613	1.569	1.598	1.564	5.62
20)	T	Nitrobenzene	1.591	1.594	1.498	1.357	1.418	1.477	1.566	1.518	1.526	1.505	5.25
21)	T	Isophorone	2.686	2.692	2.761	2.534	2.471	2.585	2.769	2.765	2.767	2.670	4.24
22)	T	2-Nitrophenol	0.649	0.665	0.613	0.575	0.554	0.583	0.661	0.646	0.655	0.622	6.76
23)	T	2,4-Dimethylphenol	1.246	1.452	1.261	1.163	1.186	1.207	1.288	1.262	1.283	1.261	6.64
24)	T	bis(2-Chloroethoxy)methane		1.999	1.703	1.642	1.542	1.563	1.681	1.632	1.639	1.675	8.46
25)	T	2,4-Dichlorophenol	1.109	1.283	1.158	1.068	1.060	1.117	1.200	1.173	1.175	1.149	6.05
26)	T	1,2,4-Trichlorobenzene	1.606	1.593	1.483	1.278	1.277	1.301	1.377	1.357	1.361	1.404	9.09
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.187	1.225	1.191	1.065	0.987	0.953	1.098	1.056	1.097	1.095	8.48
29)	T	Acetophenone		2.147	2.058	2.051	1.824	1.767	2.021	1.957	2.025	1.981	6.41
30)	T	m-Toluidine	1.323	1.563	1.758	1.661	1.696	1.641	1.849	1.806	1.867	1.685	10.02
31)	T	2-Chloroaniline	1.736	1.592	1.724	1.580	1.510	1.481	1.645	1.618	1.685	1.619	5.47
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.644	1.626	1.644	1.626	1.393	1.420	1.453	1.490	1.541	1.537	6.60
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.165	1.153	1.218	0.958	0.980	0.982	1.050	1.021	1.070	1.066	8.72
36)	T	Benzoic Acid		0.051	0.122	0.194	0.218	0.235	0.286	0.294	0.301	*Q	0.9984

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	4-Chloroaniline	0.167	0.156	0.177	0.151	0.150	0.152	0.163	0.161	0.164	0.160	5.52
38)	T	Hexachlorobutadiene	0.328	0.316	0.306	0.240	0.250	0.250	0.262	0.255	0.266	0.275	11.91
39)	T	p-Chloro-m-cresol	0.282	0.339	0.330	0.324	0.309	0.318	0.344	0.344	0.353	0.327	6.73
40)	T	2-Methylnaphthalene	0.740	0.780	0.756	0.652	0.670	0.669	0.702	0.695	0.730	0.711	6.15
41)	T	1-Methylnaphthalene	0.346	0.326	0.321	0.274	0.270	0.271	0.292	0.283	0.291	0.297	9.15
42)	T	Hexachlorocyclopentadiene	0.268	0.249	0.278	0.256	0.257	0.260	0.292	0.291	0.306	0.273	7.22
43)	T	2,4,6-Trichlorophenol	0.248	0.222	0.254	0.249	0.267	0.265	0.293	0.286	0.307	0.266	9.82
44)	T	2,4,5-Trichlorophenol	0.251	0.314	0.299	0.263	0.269	0.286	0.305	0.305	0.311	0.289	7.93
45)	S	2-Fluorobiphenyl	0.923	1.069	1.012	0.857	0.865	0.863	0.918	0.900	0.941	0.928	7.74
46)	T	2-Chloronaphthalene		0.800	0.828	0.728	0.697	0.697	0.728	0.724	0.743	0.743	6.31
47)	T	2-Nitroaniline			0.220	0.198	0.202	0.207	0.223	0.226	0.230	0.215	5.88
48)	T	1,4-Dinitrobenzene		0.098	0.125	0.100	0.104	0.114	0.123	0.122	0.125	0.114	10.30
49)	T	1,3-Dinitrobenzene			0.144	0.110	0.123	0.129	0.134	0.134	0.138	0.130	8.34
50)	T	Dimethyl phthalate	1.003	1.133	1.024	0.939	0.928	0.938	0.962	0.946	0.965	0.982	6.59
51)	T	Acenaphthylene	1.209	1.240	1.215	1.058	1.093	1.092	1.163	1.136	1.193	1.155	5.56
52)	T	2,6-Dinitrotoluene	0.233	0.186	0.178	0.182	0.184	0.191	0.207	0.197	0.217	0.197	9.35
53)	T	1,2-Dinitrobenzene	0.060	0.068	0.092	0.074	0.077	0.077	0.087	0.082	0.081	0.078	12.39
54)	I	IS2_Naphthalene-d8	----------ISTD----------										
55)	T	a-Terpineol	0.277	0.368	0.336	0.322	0.314	0.310	0.337	0.350	0.361	0.330	8.61
56)	T	3-Chloroaniline	0.155	0.164	0.189	0.173	0.186	0.180	0.192	0.192	0.200	0.181	8.08
57)	T	2,6-Dichlorophenol	0.297	0.280	0.307	0.288	0.287	0.277	0.308	0.323	0.329	0.300	6.18
58)	T	1-chloro-2-nitrobenzene	0.201	0.180	0.174	0.169	0.162	0.151	0.162	0.171	0.175	0.172	8.12
59)	T	Caprolactam	0.183	0.173	0.162	0.176	0.166	0.162	0.178	0.192	0.192	0.176	6.52
60)	T	1,2,4,5-Tetrachlorobenzene	0.439	0.495	0.482	0.490	0.445	0.419	0.446	0.458	0.473	0.461	5.63
61)	T	Biphenyl	0.930	0.904	0.863	0.950	0.866	0.851	0.888	0.924	0.935	0.901	3.98
62)	I	IS1_Acenaphthene-d10	----------ISTD----------										
63)	T	3-Nitroaniline	0.282	0.314	0.289	0.270	0.287	0.277	0.316	0.300	0.300	0.293	5.44
64)	T	Acenaphthene	1.017	1.029	1.030	0.974	0.959	0.922	1.006	0.966	1.011	0.991	3.73
65)	T	2,4-Dinitrophenol			0.100	0.133	0.153	0.160	0.195	0.191	0.200	*L	0.9983
66)	T	Dibenzofuran	2.055	1.905	1.857	1.609	1.626	1.531	1.684	1.650	1.690	1.734	9.71
67)	T	2,4-Dinitrotoluene	0.320	0.379	0.454	0.374	0.400	0.396	0.422	0.414	0.425	0.398	9.63
68)	T	4-Nitrophenol	0.291	0.273	0.283	0.276	0.324	0.318	0.357	0.349	0.357	0.314	11.08
69)	T	2,3,5,6-Tetrachlorophenol	0.262	0.319	0.327	0.350	0.350	0.362	0.404	0.395	0.405	0.353	13.21
70)	T	2,3,4,6-Tetrachlorophenol	0.276	0.276	0.371	0.344	0.350	0.343	0.385	0.377	0.394	0.346	12.61
71)	T	Diethyl phthalate	1.346	1.526	1.544	1.418	1.424	1.380	1.468	1.430	1.451	1.443	4.41
72)	T	Fluorene	1.451	1.481	1.419	1.362	1.278	1.240	1.348	1.327	1.358	1.363	5.74

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21056**
Calibration dates	**: 04/18/24 20:50 04/19/24 08:27**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	4-Chlorophenyl-phenylether	0.832	0.753	0.779	0.703	0.673	0.641	0.697	0.679	0.694	0.717	8.35
74)	T	4-Nitroaniline	0.262	0.260	0.305	0.291	0.280	0.285	0.308	0.297	0.293	0.287	5.96
75)	T	4,6-Dinitro-o-cresol			0.193	0.194	0.213	0.220	0.247	0.252	0.252	0.224	11.59
76)	T	NDPA/DPA	1.230	1.164	1.131	1.082	1.081	1.056	1.125	1.096	1.134	1.122	4.68
77)	T	Azobenzene	1.457	1.513	1.576	1.327	1.326	1.323	1.417	1.352	1.577	1.430	7.40
78)	S	2,4,6-Tribromophenol	0.180	0.190	0.253	0.193	0.212	0.206	0.229	0.224	0.229	0.213	10.99
79)	T	4-Bromophenyl-phenylether	0.449	0.453	0.478	0.404	0.411	0.393	0.425	0.407	0.424	0.427	6.48
80)	T	Hexachlorobenzene	0.546	0.588	0.506	0.454	0.480	0.438	0.478	0.470	0.490	0.494	9.46
81)	T	Pentachlorophenol			0.255	0.243	0.278	0.278	0.316	0.313	0.334	0.288	11.69
82)	I	IS2_Acenaphthene-d10	----------ISTD----------										
83)	T	Dichloran	0.147	0.202	0.158	0.168	0.179	0.185	0.213	0.225	0.244	0.191	16.87
84)	T	Pentachloronitrobenzene	0.286	0.188	0.213	0.217	0.203	0.214	0.244	0.257	0.266	0.232	14.07
85)	I	IS3_Acenaphthene-d10	----------ISTD----------										
86)	T	Atrazine	0.367	0.342	0.372	0.438	0.387	0.393	0.432	0.437	0.457	0.403	9.76
87)	I	IS1_Phenanthrene-d10	----------ISTD----------										
88)	T	Phenanthrene	1.117	1.125	1.020	0.922	0.915	0.876	0.966	0.953	0.993	0.988	8.80
89)	T	Anthracene	1.021	1.052	0.998	0.931	0.922	0.888	0.996	0.971	1.013	0.977	5.48
90)	T	Carbazole	0.916	0.883	0.910	0.856	0.872	0.841	0.939	0.900	0.928	0.894	3.72
91)	T	Di-n-butylphthalate	1.027	1.070	1.055	0.988	1.044	1.042	1.195	1.165	1.219	1.089	7.53
92)	T	Fluoranthene		1.171	1.162	1.070	1.083	1.046	1.171	1.151	1.191	1.131	4.88
93)	T	Benzidine		0.504	0.582	0.566	0.623	0.657	0.754	0.740	0.760	0.648	14.85
94)	T	Pyrene		1.243	1.287	1.124	1.150	1.094	1.226	1.202	1.224	1.194	5.47
95)	S	4-Terphenyl-d14	0.872	0.938	0.878	0.820	0.827	0.786	0.895	0.852	0.885	0.861	5.29
96)	T	Butyl benzyl phthalate			0.447	0.400	0.429	0.444	0.512	0.494	0.517	0.463	9.65
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.425	0.400	0.439	0.435	0.424	0.442	0.483	0.500	0.515	0.451	8.61
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.415	0.433	0.366	0.500	0.434	0.433	0.442	0.454	0.482	0.440	8.76
101)	T	Parathion			0.101	0.124	0.104	0.108	0.123	0.133	0.151	0.121	14.76
102)	T	3,3'-Dimethylbenzidine			0.461	0.630	0.601	0.661	0.739	0.809	0.907	*L	0.9929
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene		1.437	1.336	1.208	1.223	1.198	1.335	1.269	1.346	1.294	6.45
105)	T	3,3'-Dichlorobenzidine	0.432	0.426	0.440	0.394	0.414	0.427	0.493	0.480	0.504	0.446	8.47
106)	T	Chrysene		1.471	1.422	1.245	1.203	1.153	1.251	1.201	1.272	1.277	8.75
107)	T	bis(2-Ethylhexyl)phthalate	0.716	0.744	0.769	0.702	0.740	0.736	0.837	0.813	0.847	0.767	6.91
108)	T	Di-n-octylphthalate			1.153	1.050	1.147	1.214	1.385	1.386	1.462	1.257	12.27

Initial Calibration Summary
Form 6
Semivolatiles

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2433035**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Instrument ID	:	**SV106**	**Ical Ref**	:	**ICAL21056**
Calibration dates	:	**04/18/24 20:50 04/19/24 08:27**			

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.180	1.202	1.188	1.071	1.117	1.165	1.229	1.206	1.275	1.181	5.07
110)	T	Benzo(k)fluoranthene	1.080	1.197	1.258	1.148	1.161	1.027	1.193	1.177	1.145	1.154	5.86
111)	T	Benzo(a)pyrene	1.045	1.021	1.061	0.980	1.041	0.994	1.137	1.107	1.136	1.058	5.48
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.922	0.925	0.902	0.866	0.894	1.054	1.119	1.181	0.983	12.05
114)	T	Dibenzo[a,h]anthracene	0.832	0.862	0.933	0.873	0.878	0.876	1.028	1.026	1.102	0.935	10.11
115)	T	Benzo(g,h,i)perylene	0.864	0.967	0.914	0.864	0.875	0.847	0.988	0.983	1.003	0.923	6.79

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38) T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39) T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40) T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41) T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42) T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43) T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44) T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45) S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61
46) T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47) T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48) T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49) T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50) T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51) T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52) T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53) T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54) I	IS2_Naphthalene-d8	----------ISTD----------										
55) T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56) T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57) T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58) T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59) T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60) T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61) T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62) I	IS1_Acenaphthene-d10	----------ISTD----------										
63) T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64) T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65) T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66) T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67) T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68) T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69) T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70) T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71) T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72) T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52

Initial Calibration Summary
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Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41	
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62	
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243		*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49	
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08	
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42	
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09	
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66	
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197		*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194		*Q	0.9990
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77	
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70	
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26	
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82	
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65	
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68	
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13	
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29	
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573		*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02	
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124		*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#	
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68	
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76	
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42	
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918			*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571			*L	0.9918

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.968	0.876	0.795	0.712	0.716	0.723	0.786	0.742	0.782	0.789	10.74
3)	t	Pyridine	1.136	1.084	1.172	1.015	1.203	1.217	1.311	1.188	1.300	1.181	8.03
4)	S	2-Fluorophenol	1.289	1.192	1.243	0.950	1.045	1.048	1.168	1.113	1.130	1.131	9.38
5)	T	Aniline	1.834	2.142	2.040	1.688	1.781	1.758	1.922	1.894	1.950	1.890	7.57
6)	t	2-Chlorophenol	1.323	1.334	1.263	1.096	1.133	1.181	1.255	1.236	1.244	1.230	6.52
7)	S	Phenol-d6	1.373	1.576	1.557	1.359	1.370	1.397	1.504	1.487	1.524	1.461	5.90
8)	T	Phenol	1.480	1.629	1.750	1.453	1.451	1.482	1.624	1.553	1.586	1.557	6.48
9)	T	bis(2-Chloroethyl)ether	1.240	1.284	1.284	1.181	1.184	1.171	1.264	1.218	1.234	1.229	3.56
10)	T	1,3-Dichlorobenzene	1.414	1.708	1.498	1.353	1.282	1.323	1.450	1.379	1.398	1.423	8.78
11)	T	1,4-Dichlorobenzene	1.682	1.802	1.617	1.324	1.337	1.326	1.454	1.407	1.428	1.486	11.65
12)	T	1,2-Dichlorobenzene	1.243	1.545	1.532	1.262	1.251	1.266	1.381	1.356	1.375	1.357	8.58
13)	t	Benzyl alcohol	1.190	1.197	1.234	1.110	1.093	1.148	1.244	1.232	1.253	1.189	4.99
14)	T	bis(2-chloroisopropyl)ether	1.917	2.024	1.974	1.726	1.655	1.719	1.809	1.765	1.763	1.817	6.94
15)	T	2-Methylphenol	1.320	1.082	1.146	0.988	1.016	1.032	1.138	1.108	1.137	1.108	8.89
16)	T	Hexachloroethane	0.633	0.623	0.632	0.569	0.596	0.581	0.607	0.605	0.607	0.606	3.58
17)	T	n-Nitrosodi-n-propylamine	1.033	1.166	1.043	0.992	0.928	1.003	1.060	1.029	1.055	1.034	6.17
18)	T	3-Methylphenol/4-Methylphenol	1.184	1.306	1.347	1.088	1.135	1.134	1.237	1.192	1.211	1.204	6.91
19)	S	Nitrobenzene-d5	1.535	1.656	1.696	1.494	1.413	1.503	1.613	1.569	1.598	1.564	5.62
20)	T	Nitrobenzene	1.591	1.594	1.498	1.357	1.418	1.477	1.566	1.518	1.526	1.505	5.25
21)	T	Isophorone	2.686	2.692	2.761	2.534	2.471	2.585	2.769	2.765	2.767	2.670	4.24
22)	T	2-Nitrophenol	0.649	0.665	0.613	0.575	0.554	0.583	0.661	0.646	0.655	0.622	6.76
23)	T	2,4-Dimethylphenol	1.246	1.452	1.261	1.163	1.186	1.207	1.288	1.262	1.283	1.261	6.64
24)	T	bis(2-Chloroethoxy)methane		1.999	1.703	1.642	1.542	1.563	1.681	1.632	1.639	1.675	8.46
25)	T	2,4-Dichlorophenol	1.109	1.283	1.158	1.068	1.060	1.117	1.200	1.173	1.175	1.149	6.05
26)	T	1,2,4-Trichlorobenzene	1.606	1.593	1.483	1.278	1.277	1.301	1.377	1.357	1.361	1.404	9.09
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.187	1.225	1.191	1.065	0.987	0.953	1.098	1.056	1.097	1.095	8.48
29)	T	Acetophenone		2.147	2.058	2.051	1.824	1.767	2.021	1.957	2.025	1.981	6.41
30)	T	m-Toluidine	1.323	1.563	1.758	1.661	1.696	1.641	1.849	1.806	1.867	1.685	10.02
31)	T	2-Chloroaniline	1.736	1.592	1.724	1.580	1.510	1.481	1.645	1.618	1.685	1.619	5.47
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.644	1.626	1.644	1.626	1.393	1.420	1.453	1.490	1.541	1.537	6.60
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.165	1.153	1.218	0.958	0.980	0.982	1.050	1.021	1.070	1.066	8.72
36)	T	Benzoic Acid		0.051	0.122	0.194	0.218	0.235	0.286	0.294	0.301	*Q	0.9984
37)	T	4-Chloroaniline	0.167	0.156	0.177	0.151	0.150	0.152	0.163	0.161	0.164	0.160	5.52
38)	T	Hexachlorobutadiene	0.328	0.316	0.306	0.240	0.250	0.250	0.262	0.255	0.266	0.275	11.91
39)	T	p-Chloro-m-cresol	0.282	0.339	0.330	0.324	0.309	0.318	0.344	0.344	0.353	0.327	6.73
40)	T	2-Methylnaphthalene	0.740	0.780	0.756	0.652	0.670	0.669	0.702	0.695	0.730	0.711	6.15
41)	T	1-Methylnaphthalene	0.346	0.326	0.321	0.274	0.270	0.271	0.292	0.283	0.291	0.297	9.15
42)	T	Hexachlorocyclopentadiene	0.268	0.249	0.278	0.256	0.257	0.260	0.292	0.291	0.306	0.273	7.22
43)	T	2,4,6-Trichlorophenol	0.248	0.222	0.254	0.249	0.267	0.265	0.293	0.286	0.307	0.266	9.82
44)	T	2,4,5-Trichlorophenol	0.251	0.314	0.299	0.263	0.269	0.286	0.305	0.305	0.311	0.289	7.93
45)	S	2-Fluorobiphenyl	0.923	1.069	1.012	0.857	0.865	0.863	0.918	0.900	0.941	0.928	7.74

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene		0.800	0.828	0.728	0.697	0.697	0.728	0.724	0.743	0.743	6.31
47)	T	2-Nitroaniline			0.220	0.198	0.202	0.207	0.223	0.226	0.230	0.215	5.88
48)	T	1,4-Dinitrobenzene		0.098	0.125	0.100	0.104	0.114	0.123	0.122	0.125	0.114	10.30
49)	T	1,3-Dinitrobenzene			0.144	0.110	0.123	0.129	0.134	0.134	0.138	0.130	8.34
50)	T	Dimethyl phthalate	1.003	1.133	1.024	0.939	0.928	0.938	0.962	0.946	0.965	0.982	6.59
51)	T	Acenaphthylene	1.209	1.240	1.215	1.058	1.093	1.092	1.163	1.136	1.193	1.155	5.56
52)	T	2,6-Dinitrotoluene	0.233	0.186	0.178	0.182	0.184	0.191	0.207	0.197	0.217	0.197	9.35
53)	T	1,2-Dinitrobenzene	0.060	0.068	0.092	0.074	0.077	0.077	0.087	0.082	0.081	0.078	12.39
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.277	0.368	0.336	0.322	0.314	0.310	0.337	0.350	0.361	0.330	8.61
56)	T	3-Chloroaniline	0.155	0.164	0.189	0.173	0.186	0.180	0.192	0.192	0.200	0.181	8.08
57)	T	2,6-Dichlorophenol	0.297	0.280	0.307	0.288	0.287	0.277	0.308	0.323	0.329	0.300	6.18
58)	T	1-chloro-2-nitrobenzene	0.201	0.180	0.174	0.169	0.162	0.151	0.162	0.171	0.175	0.172	8.12
59)	T	Caprolactam	0.183	0.173	0.162	0.176	0.166	0.162	0.178	0.192	0.192	0.176	6.52
60)	T	1,2,4,5-Tetrachlorobenzene	0.439	0.495	0.482	0.490	0.445	0.419	0.446	0.458	0.473	0.461	5.63
61)	T	Biphenyl	0.930	0.904	0.863	0.950	0.866	0.851	0.888	0.924	0.935	0.901	3.98
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline	0.282	0.314	0.289	0.270	0.287	0.277	0.316	0.300	0.300	0.293	5.44
64)	T	Acenaphthene	1.017	1.029	1.030	0.974	0.959	0.922	1.006	0.966	1.011	0.991	3.73
65)	T	2,4-Dinitrophenol			0.100	0.133	0.153	0.160	0.195	0.191	0.200	*L	0.9983
66)	T	Dibenzofuran	2.055	1.905	1.857	1.609	1.626	1.531	1.684	1.650	1.690	1.734	9.71
67)	T	2,4-Dinitrotoluene	0.320	0.379	0.454	0.374	0.400	0.396	0.422	0.414	0.425	0.398	9.63
68)	T	4-Nitrophenol	0.291	0.273	0.283	0.276	0.324	0.318	0.357	0.349	0.357	0.314	11.08
69)	T	2,3,5,6-Tetrachlorophenol	0.262	0.319	0.327	0.350	0.350	0.362	0.404	0.395	0.405	0.353	13.21
70)	T	2,3,4,6-Tetrachlorophenol	0.276	0.276	0.371	0.344	0.350	0.343	0.385	0.377	0.394	0.346	12.61
71)	T	Diethyl phthalate	1.346	1.526	1.544	1.418	1.424	1.380	1.468	1.430	1.451	1.443	4.41
72)	T	Fluorene	1.451	1.481	1.419	1.362	1.278	1.240	1.348	1.327	1.358	1.363	5.74
73)	T	4-Chlorophenyl-phenylether	0.832	0.753	0.779	0.703	0.673	0.641	0.697	0.679	0.694	0.717	8.35
74)	T	4-Nitroaniline	0.262	0.260	0.305	0.291	0.280	0.285	0.308	0.297	0.293	0.287	5.96
75)	T	4,6-Dinitro-o-cresol			0.193	0.194	0.213	0.220	0.247	0.252	0.252	0.224	11.59
76)	T	NDPA/DPA	1.230	1.164	1.131	1.082	1.081	1.056	1.125	1.096	1.134	1.122	4.68
77)	T	Azobenzene	1.457	1.513	1.576	1.327	1.326	1.323	1.417	1.352	1.577	1.430	7.40
78)	S	2,4,6-Tribromophenol	0.180	0.190	0.253	0.193	0.212	0.206	0.229	0.224	0.229	0.213	10.99
79)	T	4-Bromophenyl-phenylether	0.449	0.453	0.478	0.404	0.411	0.393	0.425	0.407	0.424	0.427	6.48
80)	T	Hexachlorobenzene	0.546	0.588	0.506	0.454	0.480	0.438	0.478	0.470	0.490	0.494	9.46
81)	T	Pentachlorophenol			0.255	0.243	0.278	0.278	0.316	0.313	0.334	0.288	11.69
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran	0.147	0.202	0.158	0.168	0.179	0.185	0.213	0.225	0.244	0.191	16.87
84)	T	Pentachloronitrobenzene	0.286	0.188	0.213	0.217	0.203	0.214	0.244	0.257	0.266	0.232	14.07
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine	0.367	0.342	0.372	0.438	0.387	0.393	0.432	0.437	0.457	0.403	9.76
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.117	1.125	1.020	0.922	0.915	0.876	0.966	0.953	0.993	0.988	8.80
89)	T	Anthracene	1.021	1.052	0.998	0.931	0.922	0.888	0.996	0.971	1.013	0.977	5.48
90)	T	Carbazole	0.916	0.883	0.910	0.856	0.872	0.841	0.939	0.900	0.928	0.894	3.72

Response Factor Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate	1.027	1.070	1.055	0.988	1.044	1.042	1.195	1.165	1.219	1.089	7.53
92)	T	Fluoranthene		1.171	1.162	1.070	1.083	1.046	1.171	1.151	1.191	1.131	4.88
93)	T	Benzidine		0.504	0.582	0.566	0.623	0.657	0.754	0.740	0.760	0.648	14.85
94)	T	Pyrene		1.243	1.287	1.124	1.150	1.094	1.226	1.202	1.224	1.194	5.47
95)	S	4-Terphenyl-d14	0.872	0.938	0.878	0.820	0.827	0.786	0.895	0.852	0.885	0.861	5.29
96)	T	Butyl benzyl phthalate			0.447	0.400	0.429	0.444	0.512	0.494	0.517	0.463	9.65
97)	I	IS2_Phenanthrene-d10	ISTD										
98)	T	Diphenamid	0.425	0.400	0.439	0.435	0.424	0.442	0.483	0.500	0.515	0.451	8.61
99)	I	IS3_Phenanthrene-d10	ISTD										
100)	T	n-Octadecane	0.415	0.433	0.366	0.500	0.434	0.433	0.442	0.454	0.482	0.440	8.76
101)	T	Parathion			0.101	0.124	0.104	0.108	0.123	0.133	0.151	0.121	14.76
102)	T	3,3'-Dimethylbenzidine			0.461	0.630	0.601	0.661	0.739	0.809	0.907	*L	0.9929
103)	I	IS1_Chrysene-d12	ISTD										
104)	T	Benzo[a]anthracene		1.437	1.336	1.208	1.223	1.198	1.335	1.269	1.346	1.294	6.45
105)	T	3,3'-Dichlorobenzidine	0.432	0.426	0.440	0.394	0.414	0.427	0.493	0.480	0.504	0.446	8.47
106)	T	Chrysene		1.471	1.422	1.245	1.203	1.153	1.251	1.201	1.272	1.277	8.75
107)	T	bis(2-Ethylhexyl)phthalate	0.716	0.744	0.769	0.702	0.740	0.736	0.837	0.813	0.847	0.767	6.91
108)	T	Di-n-octylphthalate			1.153	1.050	1.147	1.214	1.385	1.386	1.462	1.257	12.27
109)	T	Benzo(b)fluoranthene	1.180	1.202	1.188	1.071	1.117	1.165	1.229	1.206	1.275	1.181	5.07
110)	T	Benzo(k)fluoranthene	1.080	1.197	1.258	1.148	1.161	1.027	1.193	1.177	1.145	1.154	5.86
111)	T	Benzo(a)pyrene	1.045	1.021	1.061	0.980	1.041	0.994	1.137	1.107	1.136	1.058	5.48
112)	I	IS1_Perylene-d12	ISTD										
113)	T	Indeno(1,2,3-cd)pyrene		0.922	0.925	0.902	0.866	0.894	1.054	1.119	1.181	0.983	12.05
114)	T	Dibenzo[a,h]anthracene	0.832	0.862	0.933	0.873	0.878	0.876	1.028	1.026	1.102	0.935	10.11
115)	T	Benzo(g,h,i)perylene	0.864	0.967	0.914	0.864	0.875	0.847	0.988	0.983	1.003	0.923	6.79

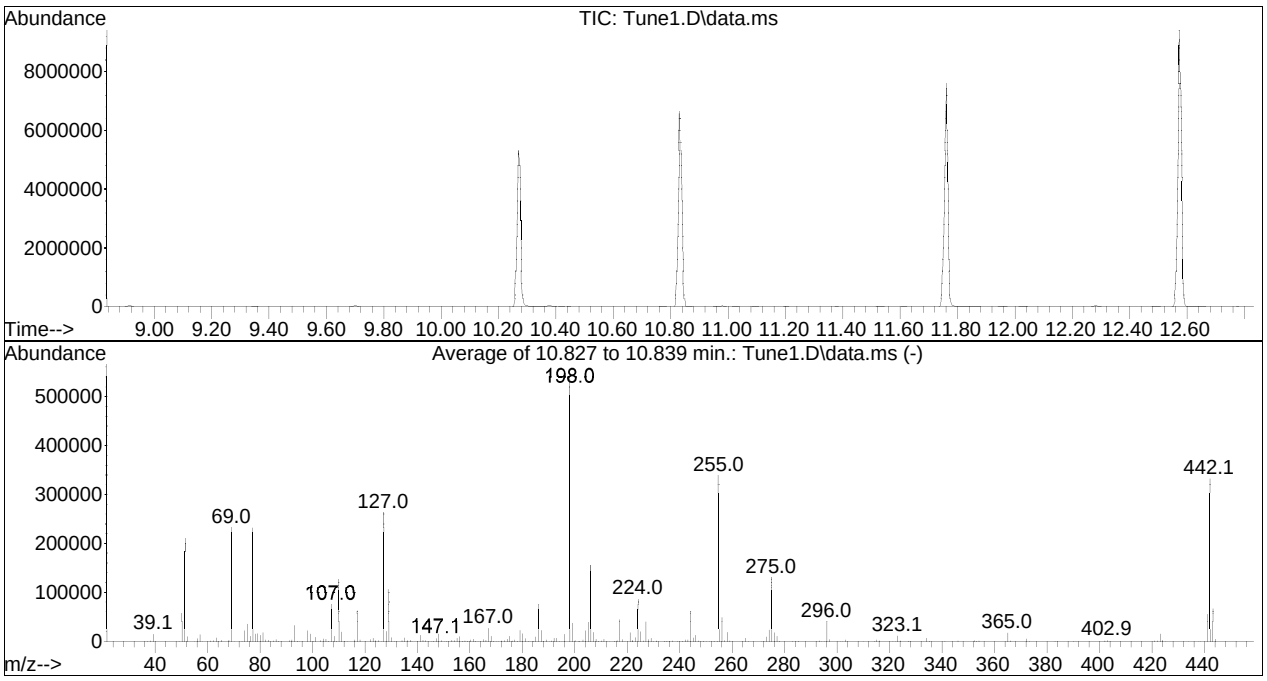
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024



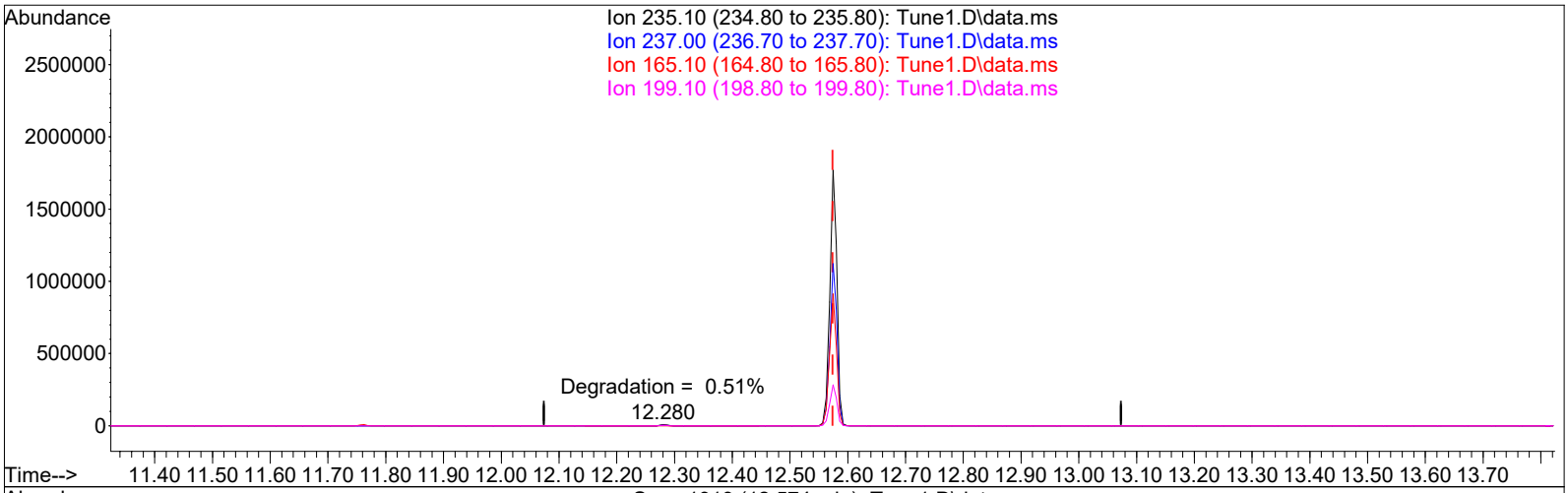
Spectrum Information: Average of 10.827 to 10.839 min.

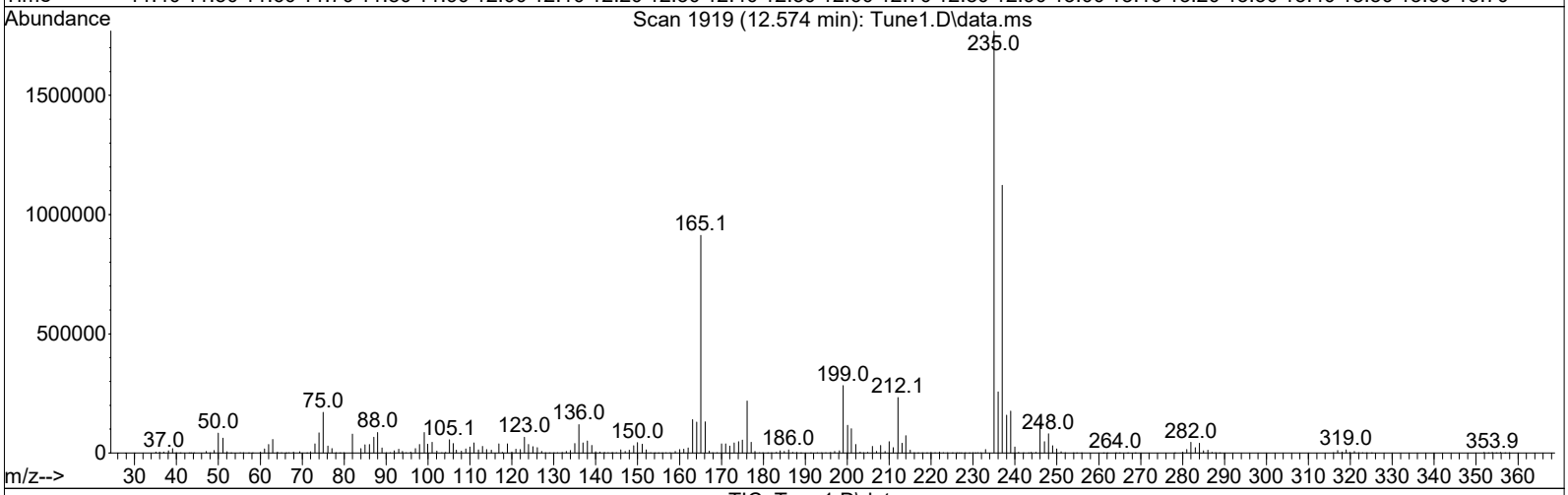
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	210149	PASS
68	69	0.00	2	1.6	3652	PASS
69	69	100	100	100.0	232164	PASS
70	69	0.00	2	0.5	1162	PASS
127	198	10	80	48.7	262507	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	538837	PASS
199	198	5	9	6.7	36363	PASS
275	198	10	60	24.2	130216	PASS
365	198	1	100	3.2	17293	PASS
441	442	0.01	24	16.2	53733	PASS
442	198	50	100	61.6	331925	PASS
443	442	15	24	20.2	66939	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(6) DDT (T)

12.574min (+ 0.000) 250.57

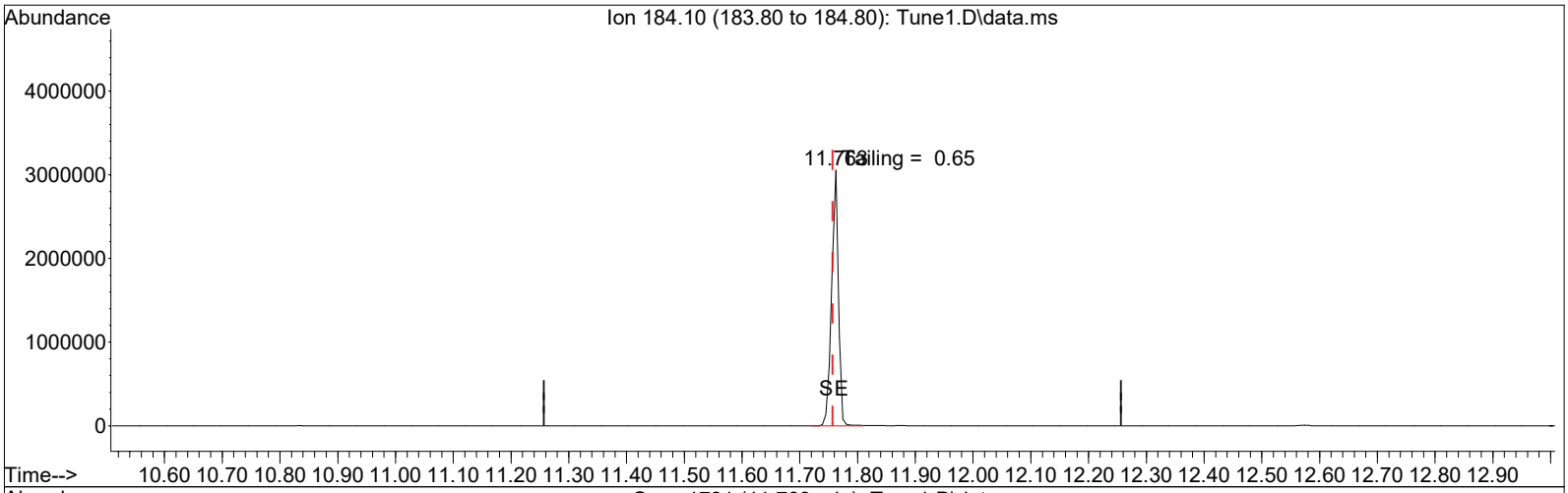
response 1527383

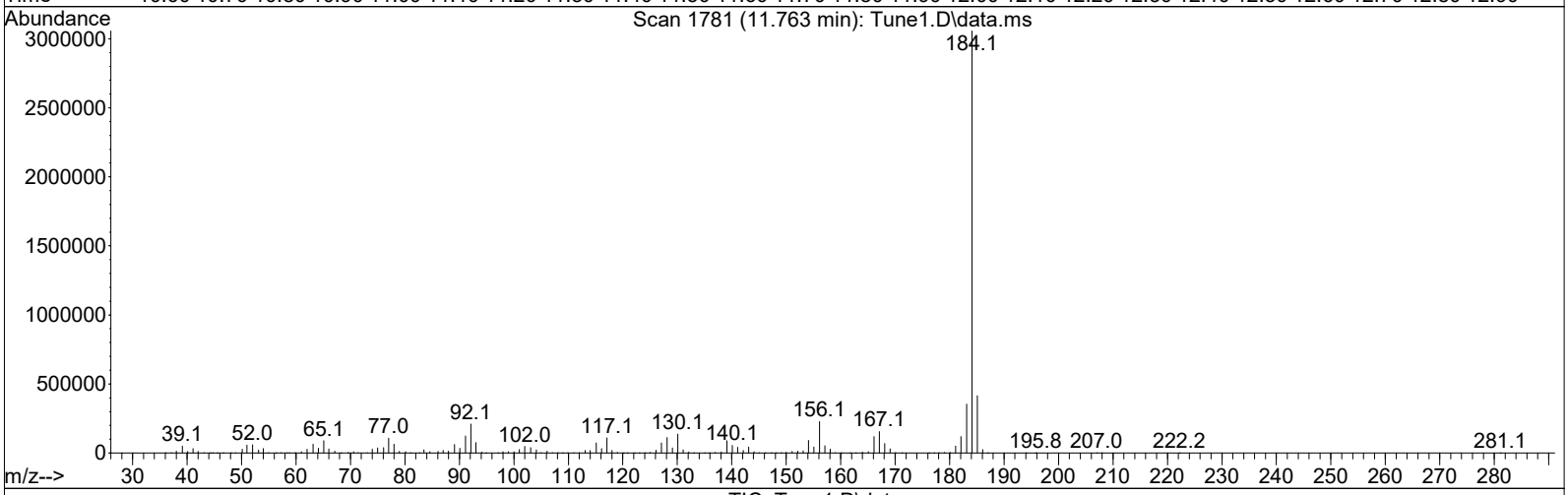
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.87
165.10	44.50	50.83
199.10	14.80	16.26

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(3) Benzidine (T)

11.763min (+ 0.006) 246.48

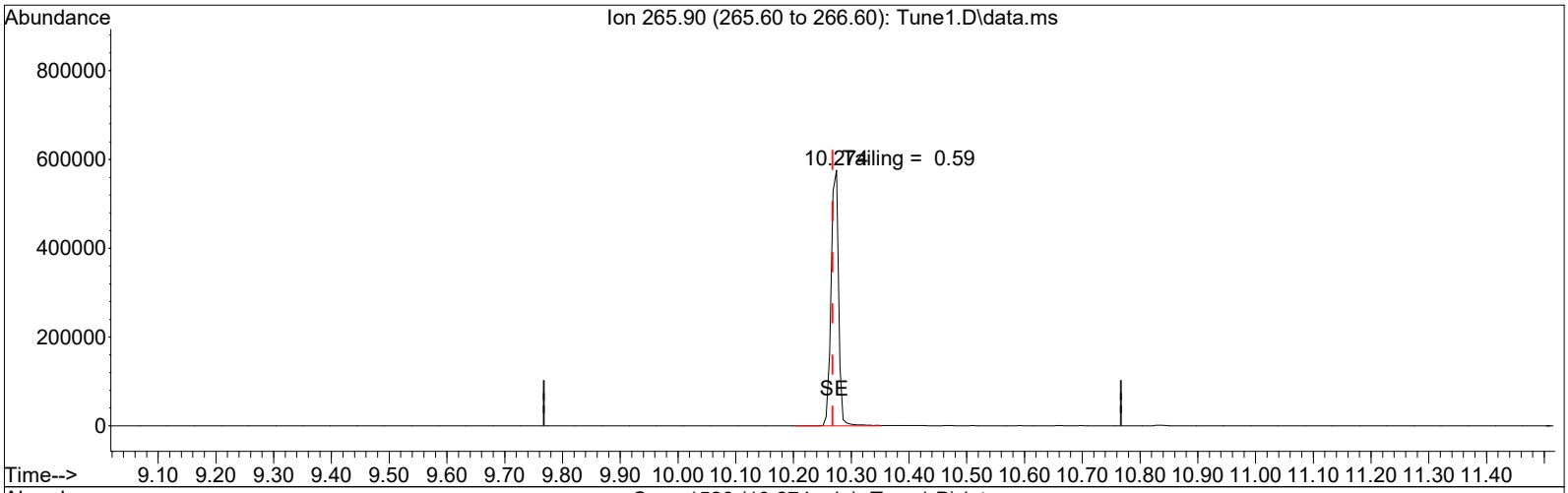
response 2509184

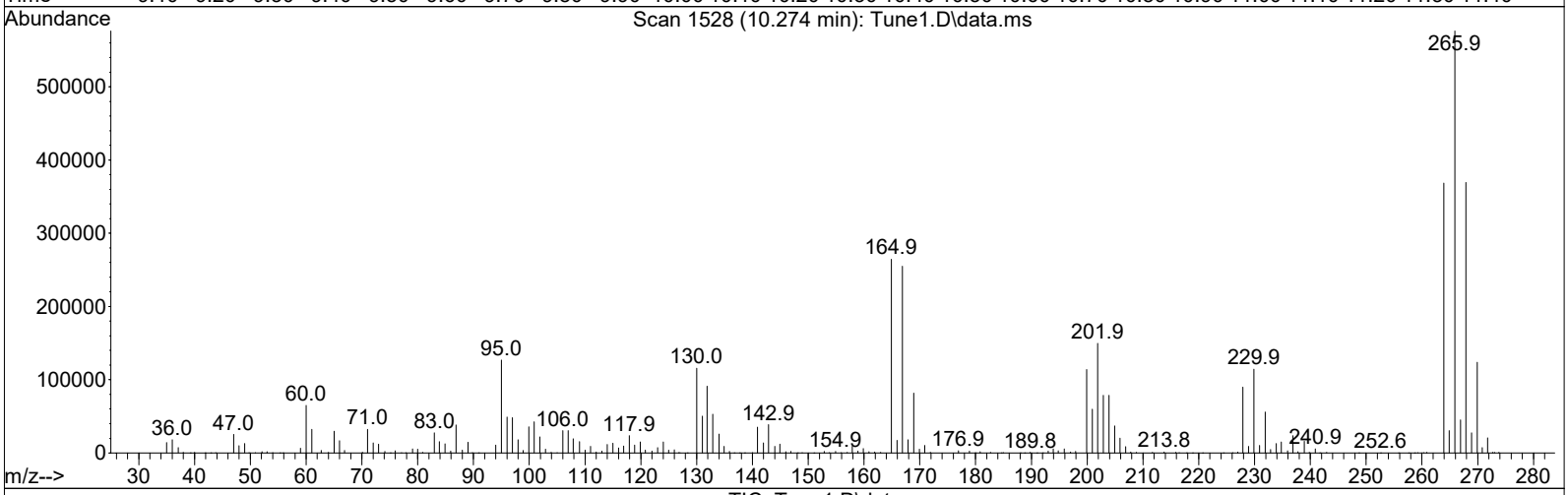
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune1.D
Acq On : 18 Apr 2024 8:26 pm
Operator : SV106:cmm
Sample : Tune1
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:34:27 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(1) Pentachlorophenol (T)

10.274min (+ 0.006) 245.05

response 514689

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	68006	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 104.92%			
34) IS1_Naphthalene-d8	7.245	136	242798	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 103.22%			
62) IS1_Acenaphthene-d10	9.010	164	163145	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 100.56%			
87) IS1_Phenanthrene-d10	10.427	188	341076	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 96.12%			
103) IS1_Chrysene-d12	12.986	240	300224	4.000	ug/ml	0.01
Standard Area 1 = 311680			Recovery = 96.32%			
112) IS1_Perylene-d12	14.386	264	292200	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 89.23%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	960540	53.923	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1078.46%#			
7) Phenol-d6	5.369	99	1295464	54.534	ug/ml	0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 1090.68%#			
19) Nitrobenzene-d5	6.451	82	1358824	53.159	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2126.36%#			
45) 2-Fluorobiphenyl	8.392	172	2855670	54.502	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2180.08%#			
78) 2,4,6-Tribromophenol	9.780	330	466388	55.521	ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 1110.42%#			
95) 4-Terphenyl-d14	12.004	244	3771593	56.294	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2251.76%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	664650	54.037	ug/ml#	80
3) Pyridine	1.410	79	1104701	53.393	ug/ml#	64
5) Aniline	5.257	93	1657370	55.451	ug/ml	98
6) 2-Chlorophenol	5.428	128	1057640	52.661	ug/ml	97
8) Phenol	5.387	94	1348350	53.511	ug/ml	90
9) Bis(2-chloroethyl)ether	5.434	93	1049271	52.712	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	1188432	52.831	ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	1214154	53.873	ug/ml	96
12) 1,2-Dichlorobenzene	5.939	146	1168516	54.287	ug/ml	95
13) Benzyl alcohol	5.992	79	1064745	54.567	ug/ml	92
14) Bis(2-chloroisopropyl)...	6.181	45	1498944	51.297	ug/ml#	44

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	966697	55.100	ug/ml	99
16) Hexachloroethane	6.357	117	516031	52.216	ug/ml#	60
17) n-Nitrosodi-n-propylamine	6.351	70	896857	52.569	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.404	108	1029846	53.405	ug/ml	98
20) Nitrobenzene	6.475	77	1297497	51.685	ug/ml	93
21) Isophorone	6.786	82	2352517	53.538	ug/ml#	91
22) 2-Nitrophenol	6.851	139	556394	56.115	ug/ml#	92
23) 2,4-Dimethylphenol	6.992	107	1090816	53.167	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.081	93	1393304	52.435	ug/ml#	97
25) 2,4-Dichlorophenol	7.134	162	998460	52.561	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.204	180	1156821	52.309	ug/ml	98
35) Naphthalene	7.269	128	3248188	54.498	ug/ml	100
36) Benzoic Acid	7.234	105	914864	64.028	ug/ml	96
37) 4-Chloroaniline	7.369	65	496724	54.004	ug/ml	91
38) Hexachlorobutadiene	7.445	225	808780	53.332	ug/ml	98
39) p-Chloro-m-cresol	7.928	107	1072201	55.539	ug/ml	93
40) 2-Methylnaphthalene	7.998	142	2216186	54.589	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	884126	53.739	ug/ml	74
42) Hexachlorocyclopentadiene	8.175	237	930045	58.940	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	930709	57.821	ug/ml	99
44) 2,4,5-Trichlorophenol	8.333	196	944183	54.357	ug/ml	98
46) 2-Chloronaphthalene	8.475	162	2254112	53.280	ug/ml	98
47) 2-Nitroaniline	8.604	138	696614	55.437	ug/ml	95
48) 1,4-Dinitrobenzene	8.745	168	379987	55.036	ug/ml	92
49) 1,3-Dinitrobenzene	8.822	168	418573	53.375	ug/ml#	1
50) Dimethyl phthalate	8.833	163	2927327	51.434	ug/ml#	98
51) Acenaphthylene	8.869	152	3621957	54.636	ug/ml	100
52) 2,6-Dinitrotoluene	8.863	165	659494	56.926	ug/ml#	89
53) 1,2-Dinitrobenzene	8.904	168	244898	52.389	ug/ml	92
63) 3-Nitroaniline	9.016	138	611324	54.028	ug/ml	86
64) Acenaphthene	9.045	154	2062148	54.811	ug/ml	92
65) 2,4-Dinitrophenol	9.110	184	406945	62.258	ug/ml	92
66) Dibenzofuran	9.216	168	3446910	55.191	ug/ml#	70
67) 2,4-Dinitrotoluene	9.245	165	867147	53.649	ug/ml#	81
68) 4-Nitrophenol	9.227	65	727417	56.111	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.316	232	825957	55.896	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.357	232	803796	57.494	ug/ml	97
71) Diethyl phthalate	9.522	149	2959636	52.594	ug/ml	99
72) Fluorene	9.545	166	2768758	54.767	ug/ml	96
73) 4-Chlorophenyl phenyl ...	9.575	204	1415012	54.157	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.610	138	596973	51.342	ug/ml#	73
75)	4,6-Dinitro-o-cresol	9.633	198	513254	57.219	ug/ml#	73
76)	NDPA/DPA	9.704	169	2311916	53.687	ug/ml	97
77)	Azobenzene	9.727	77	3216057	59.606	ug/ml	94
79)	4-Bromophenyl phenyl e...	10.039	248	863881	53.949	ug/ml	90
80)	Hexachlorobenzene	10.075	284	999723	56.003	ug/ml#	84
81)	Pentachlorophenol	10.275	266	680747	59.978	ug/ml	99
88)	Phenanthrene	10.451	178	4234548	56.672	ug/ml	99
89)	Anthracene	10.504	178	4320553	57.058	ug/ml	98
90)	Carbazole	10.680	167	3956125	55.158	ug/ml	100
91)	Di-n-butylphthalate	11.092	149	5198540	58.524	ug/ml	100
92)	Fluoranthene	11.586	202	5075901	56.917	ug/ml#	90
93)	Benzidine	11.763	184	3238326	57.829	ug/ml#	94
94)	Pyrene	11.798	202	5219225	55.941	ug/ml	99
96)	Butyl benzyl phthalate	12.521	149	2202836	58.243	ug/ml	95
104)	Benzo(a)anthracene	12.980	228	5050413	56.168	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.998	252	1891525	58.973	ug/ml#	97
106)	Chrysene	13.015	228	4772565M3	55.171	ug/ml	
107)	Bis(2-ethylhexyl)phtha...	13.145	149	3180285	57.579	ug/ml#	90
108)	Di-n-octylphthalate	13.804	149	5486066	60.217	ug/ml#	73
109)	Benzo(b)fluoranthene	14.045	252	4784490	54.724	ug/ml#	92
110)	Benzo(k)fluoranthene	14.074	252	4295287M3	55.718	ug/ml	
111)	Benzo(a)pyrene	14.345	252	4265028M2	57.187	ug/ml	
113)	Indeno(1,2,3-cd)pyrene	15.333	276	4315390	66.111	ug/mL#	85
114)	Dibenzo(a,h)anthracene	15.362	278	4026766	62.947	ug/ml#	88
115)	Benzo(ghi)perylene	15.545	276	3662950	59.195	ug/ml#	82

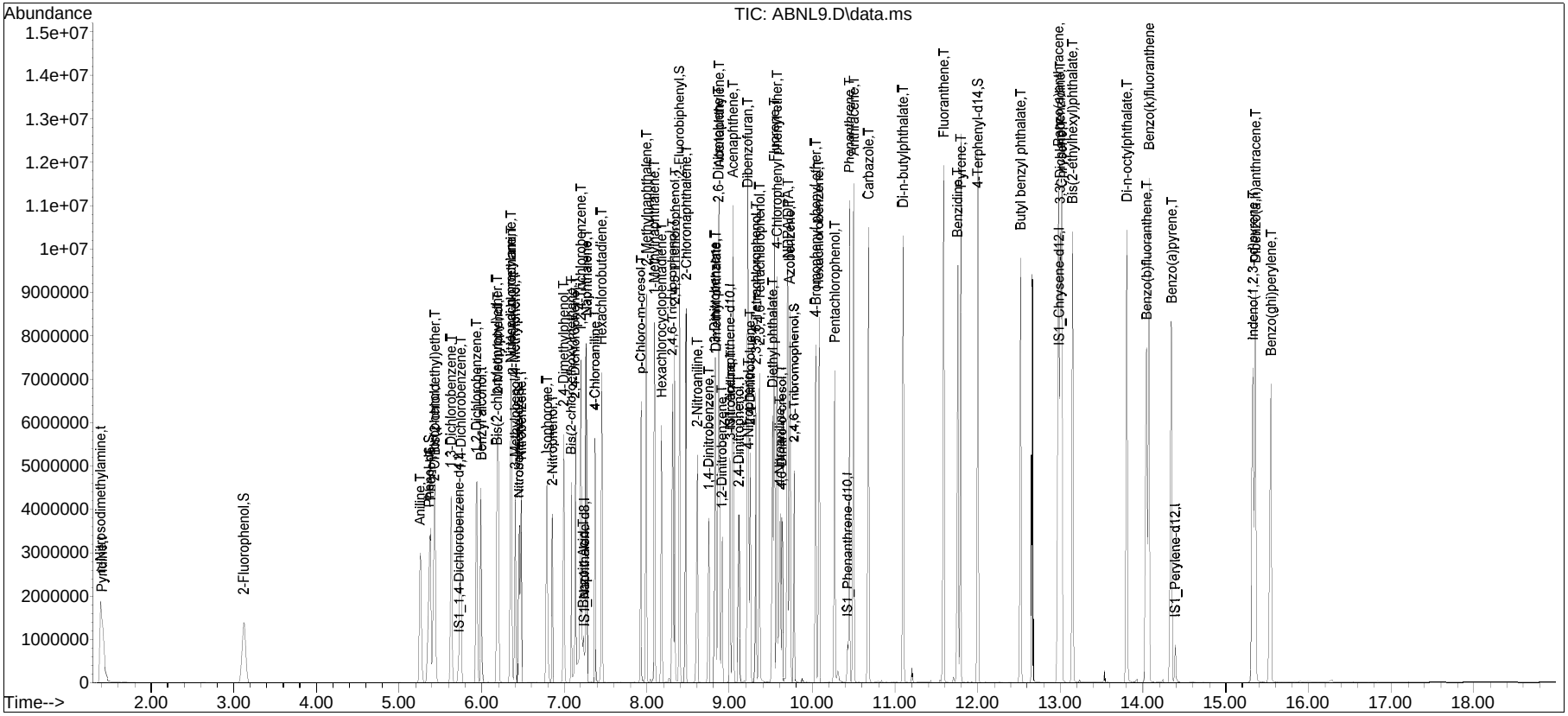
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL9.D
Acq On : 18 Apr 2024 8:50 pm
Operator : SV106:cmm
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1911693,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 19 13:32:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

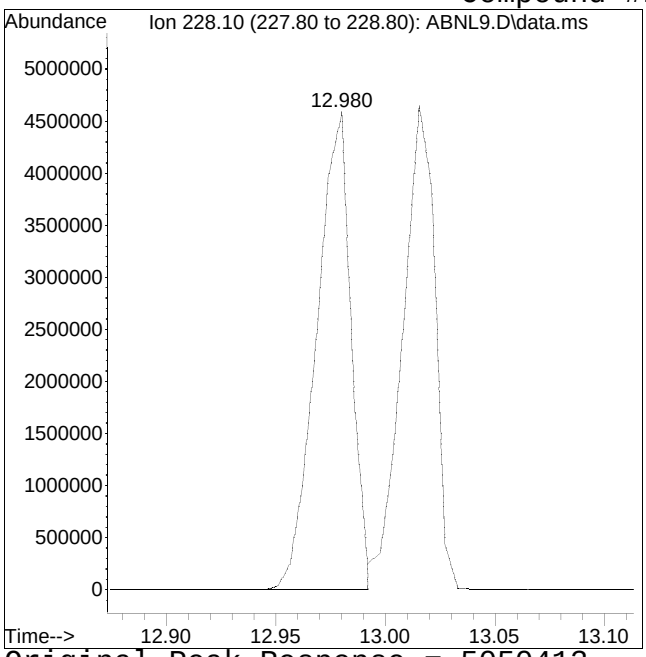
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

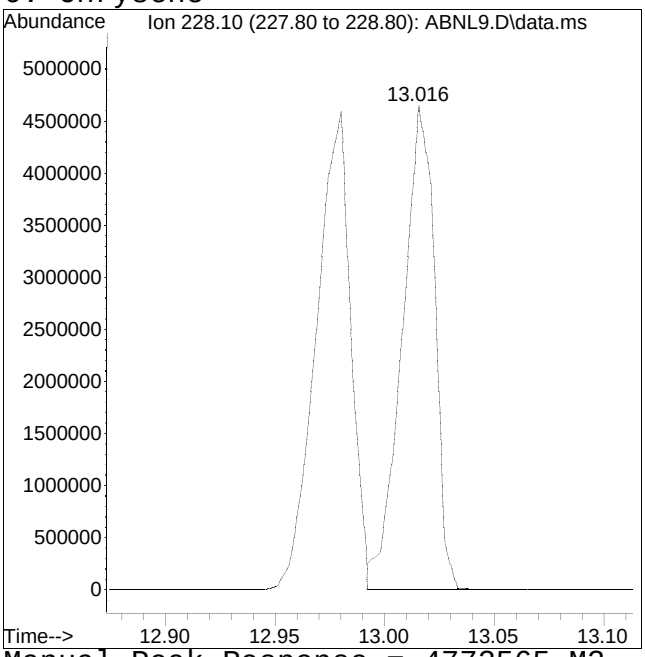


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #106: Chrysene



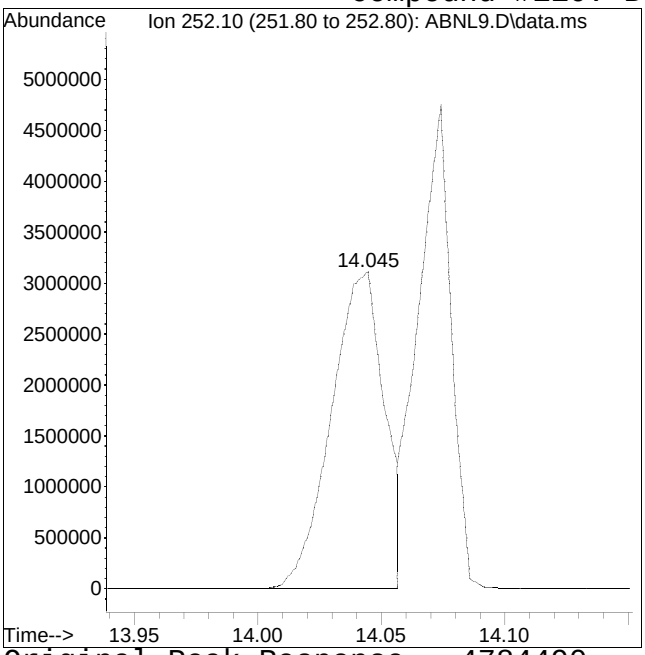


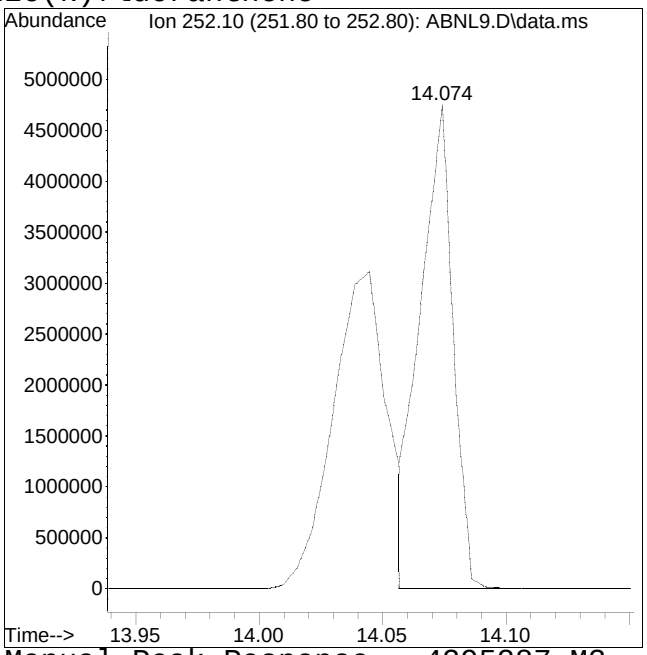
Original Peak Response = 5050413 Manual Peak Response = 4772565 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #110: Benzo(k)fluoranthene



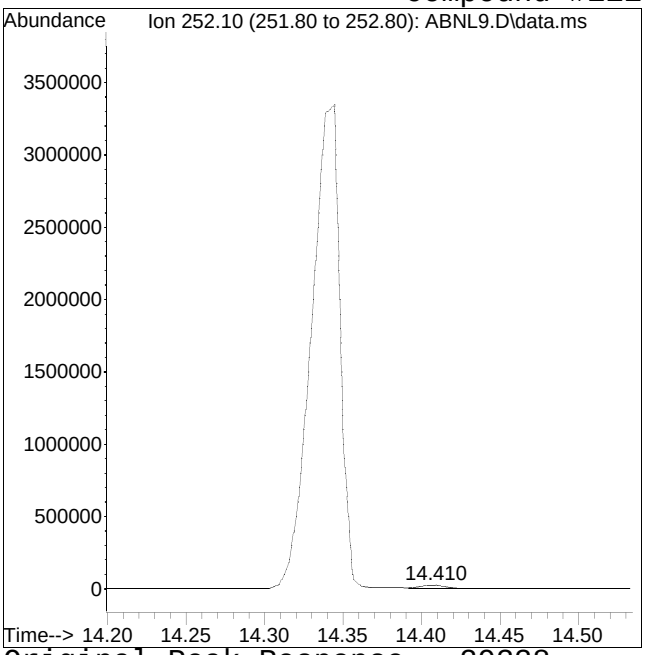


Original Peak Response = 4784490 Manual Peak Response = 4295287 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

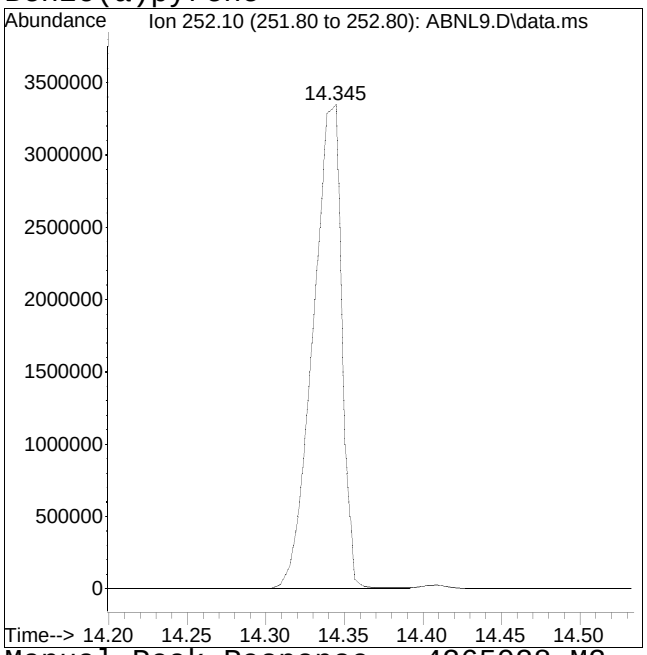
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL9.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 8:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 4/19/2024 1:19 pm

Compound #111: Benzo(a)pyrene



Original Peak Response = 29338



Manual Peak Response = 4265028 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	65912	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 101.69%			
34) IS1_Naphthalene-d8	7.239	136	241490	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 102.66%			
62) IS1_Acenaphthene-d10	9.010	164	162099	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 99.92%			
87) IS1_Phenanthrene-d10	10.422	188	342232	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 96.44%			
103) IS1_Chrysene-d12	12.980	240	304555	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 97.71%			
112) IS1_Perylene-d12	14.380	264	307180	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 93.81%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	458378	26.550	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 531.00%#			
7) Phenol-d6	5.357	99	612500	26.603	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 532.06%#			
19) Nitrobenzene-d5	6.451	82	646278	26.087	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1043.48%#			
45) 2-Fluorobiphenyl	8.386	172	1358425	26.066	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1042.64%#			
78) 2,4,6-Tribromophenol	9.775	330	227428	27.249	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 544.98%#			
95) 4-Terphenyl-d14	11.998	244	1821546	27.096	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1083.84%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	305565	25.632	ug/ml#	82
3) Pyridine	1.410	79	489475	24.409	ug/ml#	65
5) Aniline	5.257	93	780422	26.940	ug/ml	98
6) 2-Chlorophenol	5.422	128	509339	26.166	ug/ml	96
8) Phenol	5.375	94	639905	26.202	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	501810	26.010	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	568067	26.055	ug/ml	96
11) 1,4-Dichlorobenzene	5.740	146	579787	26.543	ug/ml	97
12) 1,2-Dichlorobenzene	5.939	146	558649	26.778	ug/ml	95
13) Benzyl alcohol	5.987	79	507457	26.833	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.181	45	726965	25.669	ug/ml#	46

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	456552	26.849	ug/ml	98
16) Hexachloroethane	6.357	117	249406	26.038	ug/ml#	62
17) n-Nitrosodi-n-propylamine	6.339	70	423811	25.631	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.398	108	491076	26.275	ug/ml	97
20) Nitrobenzene	6.469	77	625508	25.708	ug/ml	93
21) Isophorone	6.775	82	1139214	26.749	ug/ml#	90
22) 2-Nitrophenol	6.845	139	266303	27.711	ug/ml#	89
23) 2,4-Dimethylphenol	6.987	107	519713	26.136	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.081	93	672419	26.109	ug/ml#	97
25) 2,4-Dichlorophenol	7.128	162	483227	26.246	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.204	180	559108	26.085	ug/ml	97
35) Naphthalene	7.263	128	1541573	26.005	ug/ml	100
36) Benzoic Acid	7.181	105	444283	31.262	ug/ml	95
37) 4-Chloroaniline	7.369	65	242957	26.557	ug/ml	90
38) Hexachlorobutadiene	7.445	225	385584	25.563	ug/ml	99
39) p-Chloro-m-cresol	7.922	107	518982	27.028	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	1049314	25.987	ug/ml#	94
41) 1-Methylnaphthalene	8.086	115	426937	26.091	ug/ml	72
42) Hexachlorocyclopentadiene	8.175	237	438468	27.938	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	431884	26.977	ug/ml	97
44) 2,4,5-Trichlorophenol	8.328	196	460669	26.665	ug/ml	98
46) 2-Chloronaphthalene	8.469	162	1092533	25.964	ug/ml	98
47) 2-Nitroaniline	8.598	138	341603	27.332	ug/ml	96
48) 1,4-Dinitrobenzene	8.739	168	184223	26.827	ug/ml	93
49) 1,3-Dinitrobenzene	8.810	168	202515	25.964	ug/ml#	1
50) Dimethyl phthalate	8.822	163	1428283	25.231	ug/ml#	98
51) Acenaphthylene	8.863	152	1714005	25.995	ug/ml	99
52) 2,6-Dinitrotoluene	8.857	165	297976	25.860	ug/ml#	84
53) 1,2-Dinitrobenzene	8.892	168	124182	26.709	ug/ml	94
63) 3-Nitroaniline	9.004	138	303903	27.032	ug/ml	88
64) Acenaphthene	9.039	154	978703	26.181	ug/ml	92
65) 2,4-Dinitrophenol	9.104	184	193808	29.842	ug/ml	93
66) Dibenzofuran	9.210	168	1671270	26.933	ug/ml#	72
67) 2,4-Dinitrotoluene	9.239	165	419893	26.146	ug/ml#	89
68) 4-Nitrophenol	9.216	65	353885	27.474	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	400526	27.280	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.351	232	381653	27.475	ug/ml	96
71) Diethyl phthalate	9.516	149	1448429	25.905	ug/ml	99
72) Fluorene	9.539	166	1344383	26.764	ug/ml	96
73) 4-Chlorophenyl phenyl ...	9.575	204	687729	26.492	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.592	138	300409	26.003	ug/ml#	76
75)	4,6-Dinitro-o-cresol	9.622	198	255420	28.659	ug/ml#	67
76)	NDPA/DPA	9.692	169	1110664	25.958	ug/ml	97
77)	Azobenzene	9.722	77	1369481	25.545	ug/ml	100
79)	4-Bromophenyl phenyl e...	10.033	248	412549	25.930	ug/ml#	90
80)	Hexachlorobenzene	10.075	284	475904	26.831	ug/ml#	84
81)	Pentachlorophenol	10.269	266	317102	28.119	ug/ml	98
88)	Phenanthrene	10.445	178	2038255	27.186	ug/ml	99
89)	Anthracene	10.498	178	2077189	27.339	ug/ml	99
90)	Carbazole	10.675	167	1924881	26.747	ug/ml	99
91)	Di-n-butylphthalate	11.092	149	2492099	27.961	ug/ml	100
92)	Fluoranthene	11.580	202	2462710	27.522	ug/ml#	90
93)	Benzidine	11.757	184	1583769	28.187	ug/ml#	94
94)	Pyrene	11.792	202	2570235	27.455	ug/ml	99
96)	Butyl benzyl phthalate	12.521	149	1056935	27.851	ug/ml	96
104)	Benzo(a)anthracene	12.974	228	2415230	26.479	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.992	252	912814	28.054	ug/ml#	96
106)	Chrysene	13.010	228	2285813	26.048	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.145	149	1547896	27.626	ug/ml#	92
108)	Di-n-octylphthalate	13.798	149	2638217	28.546	ug/ml#	74
109)	Benzo(b)fluoranthene	14.033	252	2295480	25.882	ug/ml#	92
110)	Benzo(k)fluoranthene	14.063	252	2240483	28.650	ug/ml#	92
111)	Benzo(a)pyrene	14.333	252	2107673	27.859	ug/ml#	91
113)	Indeno(1,2,3-cd)pyrene	15.321	276	2147975	31.302	ug/mL#	86
114)	Dibenzo(a,h)anthracene	15.351	278	1969745	29.290	ug/ml#	89
115)	Benzo(ghi)perylene	15.533	276	1887785	29.020	ug/ml#	83

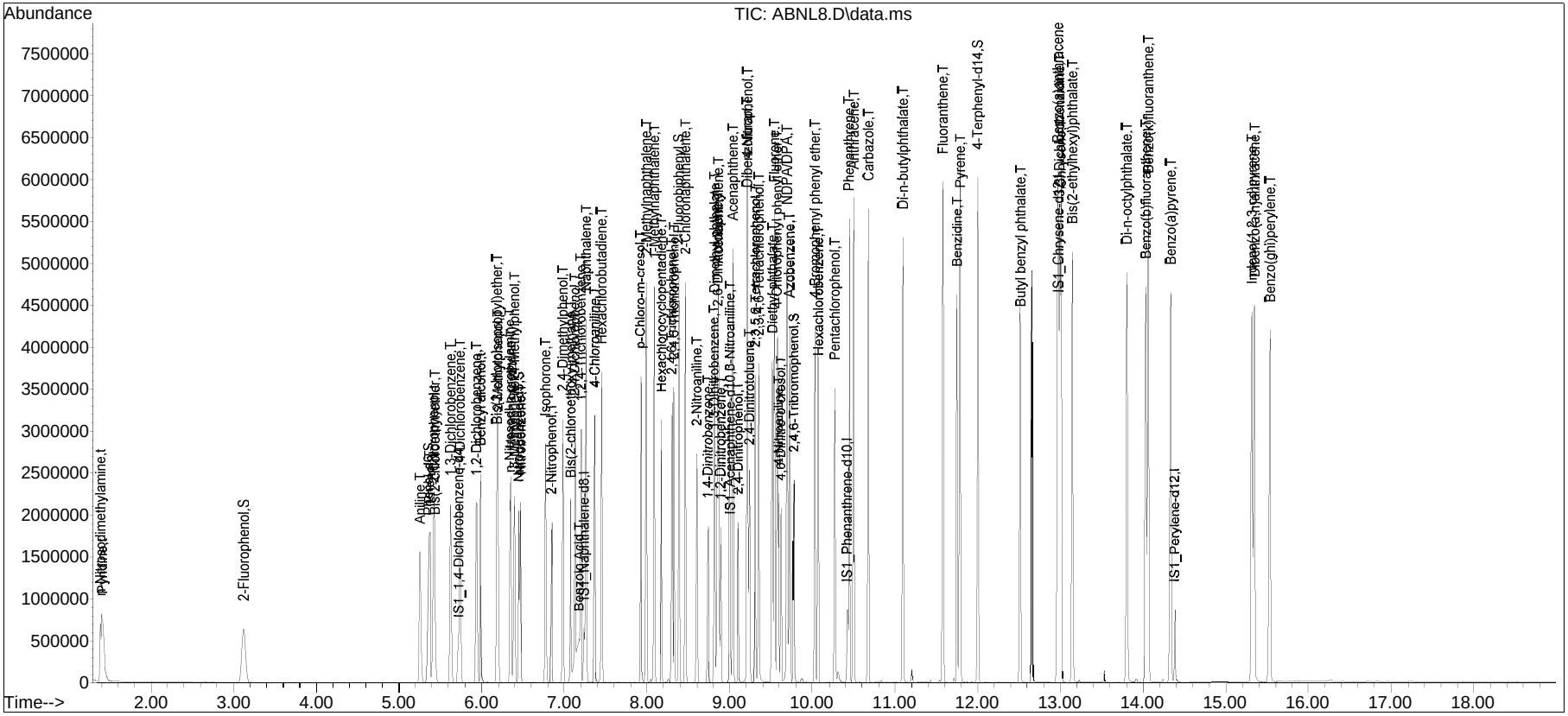
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL8.D
Acq On : 18 Apr 2024 9:14 pm
Operator : SV106:cmm
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1911693,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 19 13:30:59 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ABNL8.D	Operator	: SV106:cmm
Date Inj'd	: 4/18/2024 9:14 pm	Instrument	: SV 106
Sample	: IL3,32,,ABNL25 Lot# 10692	Quant Date	: 4/19/2024 1:19 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	63776	4.000	ug/ml	# 0.00
Standard Area 1 = 64818			Recovery = 98.39%			
34) IS1_Naphthalene-d8	7.239	136	234946	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 99.88%			
62) IS1_Acenaphthene-d10	9.010	164	158017	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 97.40%			
87) IS1_Phenanthrene-d10	10.421	188	334287	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 94.20%			
103) IS1_Chrysene-d12	12.974	240	300344	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 96.36%			
112) IS1_Perylene-d12	14.380	264	309944	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 94.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	186298	11.152	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 223.04%#			
7) Phenol-d6	5.351	99	239762	10.763	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 215.26%#			
19) Nitrobenzene-d5	6.445	82	257228	10.731	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 429.24%#			
45) 2-Fluorobiphenyl	8.386	172	539091	10.633	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 425.32%#			
78) 2,4,6-Tribromophenol	9.769	330	90545	11.129	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 222.58%#			
95) 4-Terphenyl-d14	11.998	244	748208	11.394	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 455.76%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	125250	10.859	ug/ml#	80
3) Pyridine	1.416	79	209088	10.776	ug/ml#	64
5) Aniline	5.251	93	306438	10.933	ug/ml	99
6) 2-Chlorophenol	5.416	128	200034	10.621	ug/ml	97
8) Phenol	5.369	94	258950	10.958	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	201556	10.797	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	231256	10.962	ug/ml	96
11) 1,4-Dichlorobenzene	5.739	146	231818	10.968	ug/ml	96
12) 1,2-Dichlorobenzene	5.939	146	220178	10.907	ug/ml	94
13) Benzyl alcohol	5.981	79	198319	10.838	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	288444	10.526	ug/ml#	46

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	181520	11.033	ug/ml	99
16) Hexachloroethane	6.357	117	96774	10.442	ug/ml#	57
17) n-Nitrosodi-n-propylamine	6.339	70	169058	10.567	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.392	108	197302	10.910	ug/ml	99
20) Nitrobenzene	6.469	77	249701	10.606	ug/ml	94
21) Isophorone	6.775	82	441449	10.713	ug/ml#	91
22) 2-Nitrophenol	6.845	139	105379	11.333	ug/ml#	91
23) 2,4-Dimethylphenol	6.986	107	205420	10.676	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.075	93	268026	10.756	ug/ml#	98
25) 2,4-Dichlorophenol	7.128	162	191286	10.738	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.198	180	219517	10.584	ug/ml	98
35) Naphthalene	7.263	128	616933	10.697	ug/ml	99
36) Benzoic Acid	7.133	105	168219	12.167	ug/ml	97
37) 4-Chloroaniline	7.369	65	95527	10.733	ug/ml	90
38) Hexachlorobutadiene	7.445	225	154038	10.497	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	201774	10.801	ug/ml	94
40) 2-Methylnaphthalene	7.992	142	412571	10.502	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	171480M3	10.771	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	171246	11.215	ug/ml	98
43) 2,4,6-Trichlorophenol	8.304	196	171818	11.031	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	179336	10.670	ug/ml	99
46) 2-Chloronaphthalene	8.469	162	427879	10.452	ug/ml	97
47) 2-Nitroaniline	8.592	138	131005	10.774	ug/ml	93
48) 1,4-Dinitrobenzene	8.733	168	72420	10.840	ug/ml	95
49) 1,3-Dinitrobenzene	8.810	168	78573	10.354	ug/ml#	1
50) Dimethyl phthalate	8.816	163	564799	10.255	ug/ml#	98
51) Acenaphthylene	8.863	152	682821	10.644	ug/ml	99
52) 2,6-Dinitrotoluene	8.851	165	121577	10.845	ug/ml#	83
53) 1,2-Dinitrobenzene	8.886	168	50861	11.244	ug/ml	95
63) 3-Nitroaniline	8.998	138	124809	11.388	ug/ml	91
64) Acenaphthene	9.039	154	397302	10.903	ug/ml	92
65) 2,4-Dinitrophenol	9.098	184	77000	12.163	ug/ml	94
66) Dibenzofuran	9.210	168	665383	11.000	ug/ml#	71
67) 2,4-Dinitrotoluene	9.233	165	166666	10.646	ug/ml#	87
68) 4-Nitrophenol	9.210	65	141161	11.242	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	159547	11.148	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.351	232	152197	11.240	ug/ml	95
71) Diethyl phthalate	9.510	149	580107	10.643	ug/ml	100
72) Fluorene	9.539	166	532461	10.874	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.569	204	275285	10.878	ug/ml	93

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.580	138	121686	10.805	ug/ml#	76
75)	4,6-Dinitro-o-cresol	9.616	198	97532	11.226	ug/ml#	69
76)	NDPA/DPA	9.692	169	444254	10.651	ug/ml	97
77)	Azobenzene	9.716	77	559915	10.714	ug/ml	99
79)	4-Bromophenyl phenyl e...	10.033	248	167891	10.825	ug/ml	91
80)	Hexachlorobenzene	10.069	284	188887	10.925	ug/ml#	86
81)	Pentachlorophenol	10.269	266	124823	11.355	ug/ml	99
88)	Phenanthrene	10.445	178	807472	11.026	ug/ml	98
89)	Anthracene	10.492	178	832495	11.217	ug/ml	98
90)	Carbazole	10.668	167	785129	11.169	ug/ml	100
91)	Di-n-butylphthalate	11.086	149	998553	11.470	ug/ml	100
92)	Fluoranthene	11.580	202	978351	11.193	ug/ml#	90
93)	Benzidine	11.751	184	630237	11.483	ug/ml#	95
94)	Pyrene	11.786	202	1024930	11.209	ug/ml	99
96)	Butyl benzyl phthalate	12.515	149	428062	11.548	ug/ml	95
104)	Benzo(a)anthracene	12.968	228	1002549	11.145	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.986	252	370498	11.547	ug/ml#	97
106)	Chrysene	13.004	228	939053	10.851	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.145	149	628209	11.369	ug/ml#	92
108)	Di-n-octylphthalate	13.798	149	1040284	11.414	ug/ml#	74
109)	Benzo(b)fluoranthene	14.027	252	922896	10.552	ug/ml#	93
110)	Benzo(k)fluoranthene	14.057	252	896001	11.618	ug/ml#	92
111)	Benzo(a)pyrene	14.327	252	853535	11.440	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	15.315	276	816575M6	11.794	ug/mL	
114)	Dibenzo(a,h)anthracene	15.339	278	796619	11.740	ug/ml#	88
115)	Benzo(ghi)perylene	15.521	276	765376	11.661	ug/ml#	83

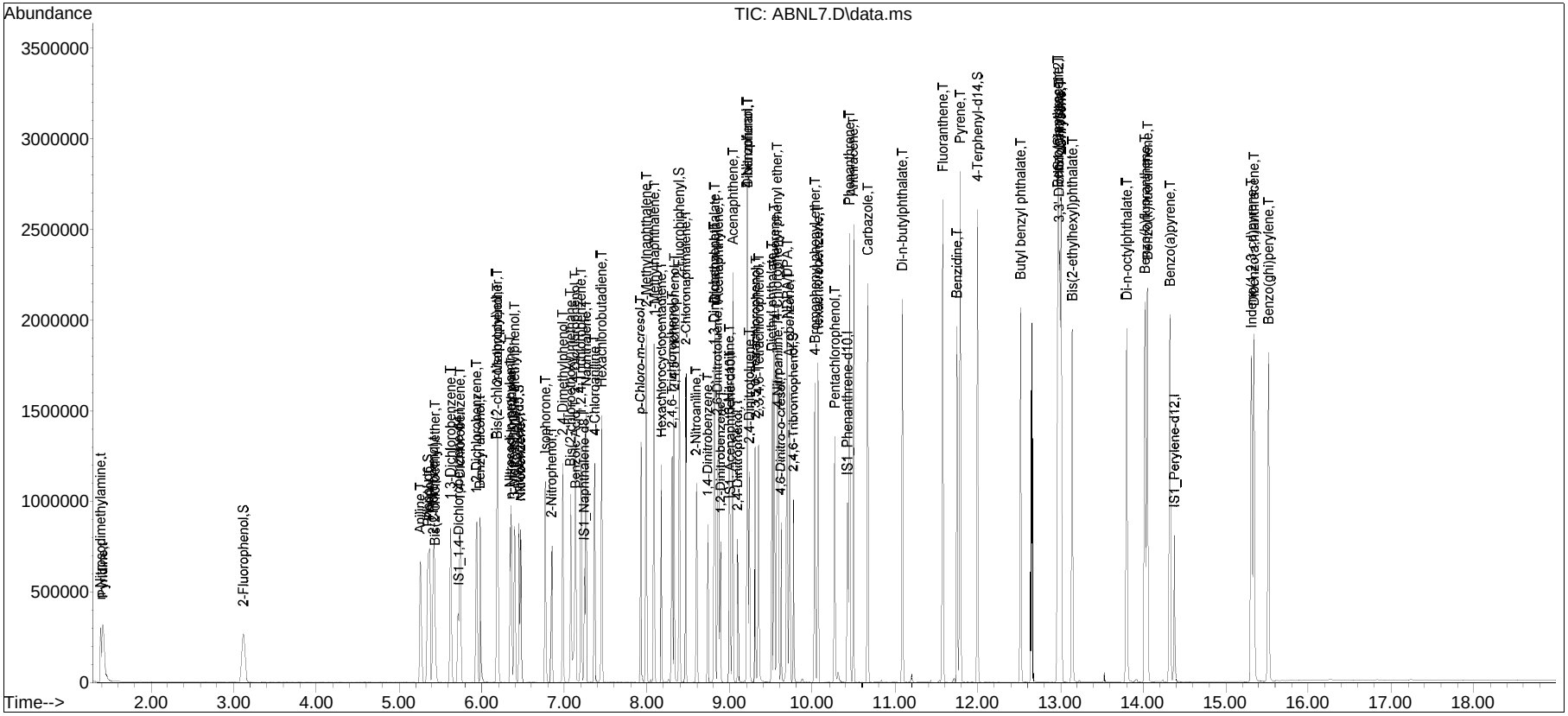
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL7.D
Acq On : 18 Apr 2024 9:39 pm
Operator : SV106:cmm
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1911693,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 19 13:30:40 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

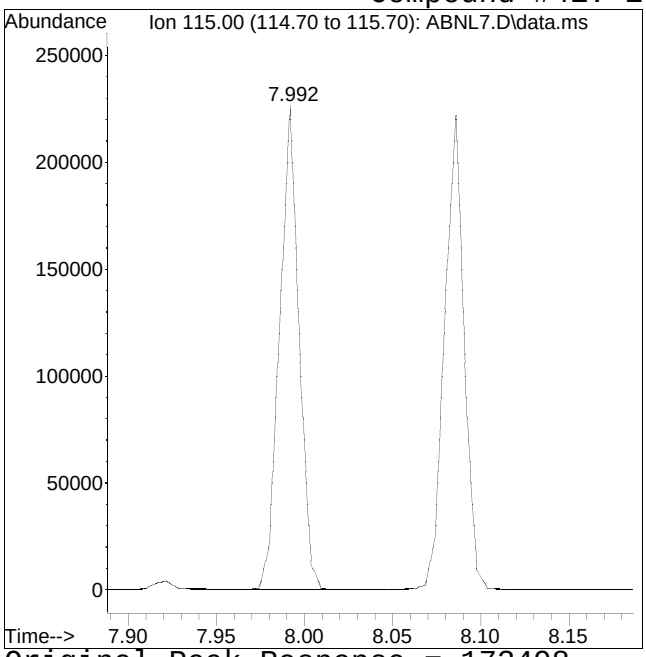
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

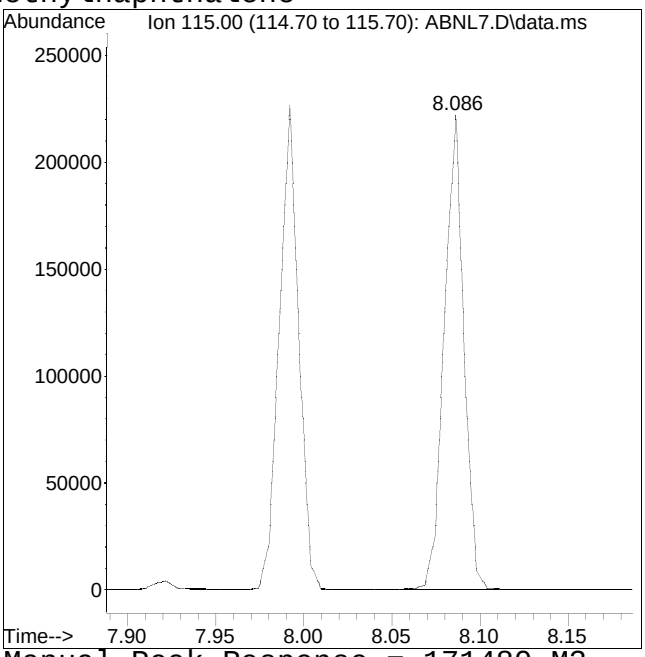


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL7.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 9:39 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 4/19/2024 1:19 pm

Compound #41: 1-Methylnaphthalene





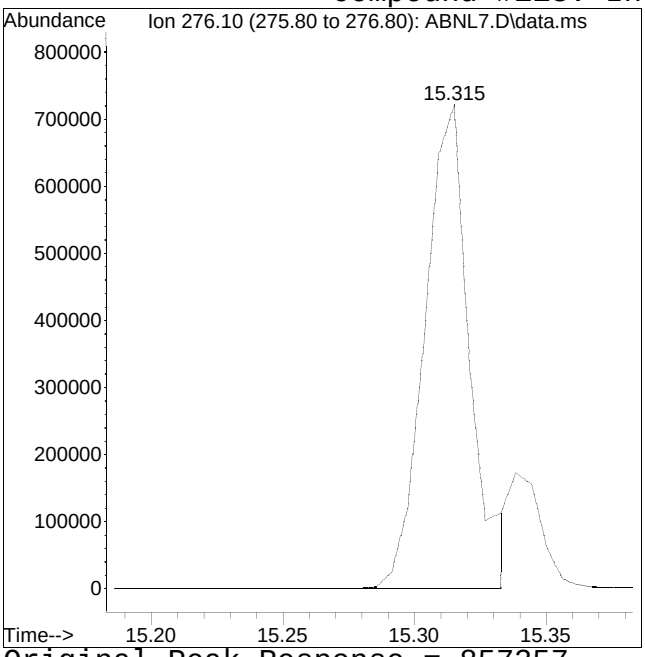
Original Peak Response = 173498 Manual Peak Response = 171480 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

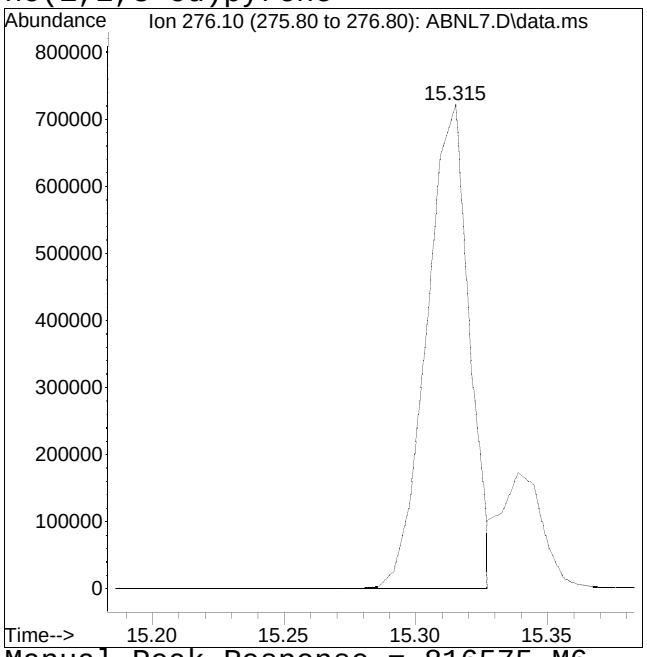
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL7.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 9:39 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 857357



Manual Peak Response = 816575 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	64818	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.239	136	235233	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.010	164	162232	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	10.421	188	354854	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 100.00%			
103) IS1_Chrysene-d12	12.974	240	311680	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 100.00%			
112) IS1_Perylene-d12	14.380	264	327460	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.128	112	84890	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
7) Phenol-d6	5.351	99	113207	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
19) Nitrobenzene-d5	6.451	82	121815	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
45) 2-Fluorobiphenyl	8.386	172	253818	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
78) 2,4,6-Tribromophenol	9.769	330	41766	5.000	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%			
95) 4-Terphenyl-d14	11.998	244	348525	5.000	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	58616	5.000	ug/ml	84
3) Pyridine	1.422	79	98600	5.000	ug/ml#	67
5) Aniline	5.257	93	142439	5.000	ug/ml	99
6) 2-Chlorophenol	5.422	128	95712	5.000	ug/ml	96
8) Phenol	5.369	94	120082	5.000	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.434	93	94863	5.000	ug/ml#	81
10) 1,3-Dichlorobenzene	5.628	146	107203	5.000	ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	107404	5.000	ug/ml	92
12) 1,2-Dichlorobenzene	5.939	146	102579	5.000	ug/ml	93
13) Benzyl alcohol	5.986	79	92989	5.000	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.181	45	139255	5.000	ug/ml#	48

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	83610	5.000	ug/ml	99
16) Hexachloroethane	6.357	117	47097	5.000	ug/ml#	60
17) n-Nitrosodi-n-propylamine	6.339	70	81304	5.000	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.392	108	91899	5.000	ug/ml	98
20) Nitrobenzene	6.469	77	119635	5.000	ug/ml	91
21) Isophorone	6.775	82	209407	5.000	ug/ml#	91
22) 2-Nitrophenol	6.845	139	47252	5.000	ug/ml#	89
23) 2,4-Dimethylphenol	6.986	107	97775	5.000	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.075	93	126632	5.000	ug/ml	99
25) 2,4-Dichlorophenol	7.128	162	90529	5.000	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.198	180	105393	5.000	ug/ml	99
35) Naphthalene	7.257	128	288724	5.000	ug/ml	100
36) Benzoic Acid	7.104	105	69216	5.000	ug/ml	92
37) 4-Chloroaniline	7.369	65	44557	5.000	ug/ml	93
38) Hexachlorobutadiene	7.445	225	73463	5.000	ug/ml	97
39) p-Chloro-m-cresol	7.922	107	93519	5.000	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	196664	5.000	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	79698	5.000	ug/ml	72
42) Hexachlorocyclopentadiene	8.175	237	76439	5.000	ug/ml	96
43) 2,4,6-Trichlorophenol	8.298	196	77974	5.000	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	84144	5.000	ug/ml	99
46) 2-Chloronaphthalene	8.469	162	204944	5.000	ug/ml	97
47) 2-Nitroaniline	8.592	138	60872	5.000	ug/ml	94
48) 1,4-Dinitrobenzene	8.733	168	33446	5.000	ug/ml	95
49) 1,3-Dinitrobenzene	8.804	168	37989	5.000	ug/ml#	1
50) Dimethyl phthalate	8.816	163	275703	5.000	ug/ml#	98
51) Acenaphthylene	8.863	152	321135	5.000	ug/ml	99
52) 2,6-Dinitrotoluene	8.851	165	56121	5.000	ug/ml#	84
53) 1,2-Dinitrobenzene	8.880	168	22645	5.000	ug/ml#	1
63) 3-Nitroaniline	8.998	138	56258	5.000	ug/ml#	82
64) Acenaphthene	9.039	154	187063	5.000	ug/ml	91
65) 2,4-Dinitrophenol	9.098	184	32499	5.000	ug/ml	96
66) Dibenzofuran	9.210	168	310524	5.000	ug/ml#	72
67) 2,4-Dinitrotoluene	9.233	165	80364	5.000	ug/ml	89
68) 4-Nitrophenol	9.204	65	64457	5.000	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	73470	5.000	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.351	232	69511	5.000	ug/ml	96
71) Diethyl phthalate	9.504	149	279792	5.000	ug/ml	98
72) Fluorene	9.533	166	251362	5.000	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.569	204	129908	5.000	ug/ml	94

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	9.580	138	57811	5.000	ug/ml	#	78
75)	4,6-Dinitro-o-cresol	9.616	198	44599	5.000	ug/ml	#	67
76)	NDPA/DPA	9.686	169	214110	5.000	ug/ml		97
77)	Azobenzene	9.716	77	268268	5.000	ug/ml		99
79)	4-Bromophenyl phenyl e...	10.033	248	79617	5.000	ug/ml		90
80)	Hexachlorobenzene	10.069	284	88757	5.000	ug/ml	#	85
81)	Pentachlorophenol	10.269	266	56432	5.000	ug/ml		98
88)	Phenanthrene	10.445	178	388694	5.000	ug/ml		99
89)	Anthracene	10.492	178	393908	5.000	ug/ml		99
90)	Carbazole	10.669	167	373103	5.000	ug/ml		100
91)	Di-n-butylphthalate	11.086	149	462082	5.000	ug/ml		100
92)	Fluoranthene	11.580	202	463916	5.000	ug/ml	#	89
93)	Benzidine	11.751	184	291302	5.000	ug/ml	#	94
94)	Pyrene	11.786	202	485340	5.000	ug/ml		98
96)	Butyl benzyl phthalate	12.515	149	196746	5.000	ug/ml		92
104)	Benzo(a)anthracene	12.968	228	466739	5.000	ug/ml		100
105)	3,3'-Dichlorobenzidine	12.986	252	166492	5.000	ug/ml	#	97
106)	Chrysene	12.998	228	449032	5.000	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.139	149	286705	5.000	ug/ml	#	92
108)	Di-n-octylphthalate	13.798	149	472908	5.000	ug/ml	#	74
109)	Benzo(b)fluoranthene	14.027	252	453829	5.000	ug/ml	#	92
110)	Benzo(k)fluoranthene	14.051	252	400154	5.000	ug/ml	#	93
111)	Benzo(a)pyrene	14.321	252	387129	5.000	ug/ml	#	92
113)	Indeno(1,2,3-cd)pyrene	15.309	276	365759	5.000	ug/mL	#	87
114)	Dibenzo(a,h)anthracene	15.339	278	358448	5.000	ug/ml	#	89
115)	Benzo(ghi)perylene	15.515	276	346732	5.000	ug/ml	#	83

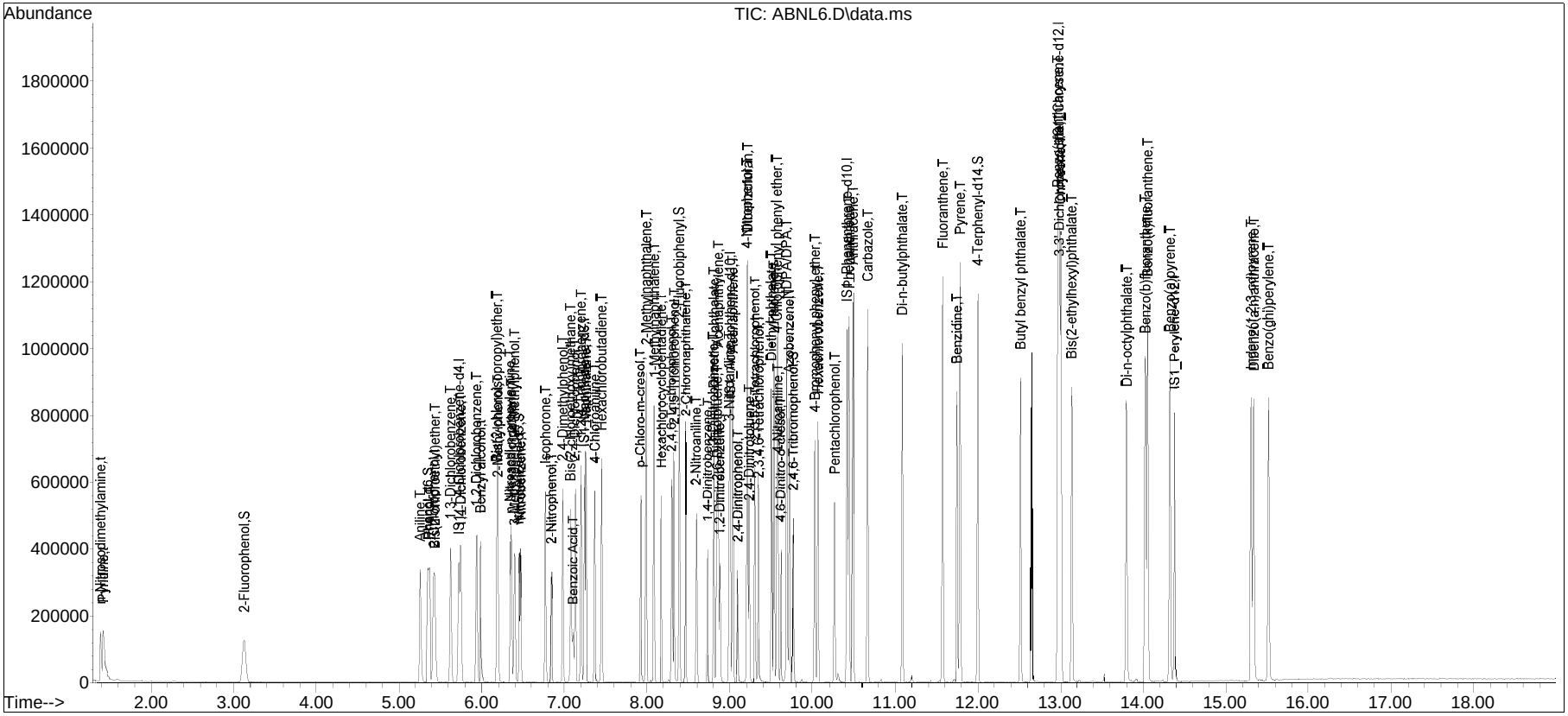
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL6.D
Acq On : 18 Apr 2024 10:03 pm
Operator : SV106:cmm
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1911693,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 19 13:29:29 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ABNL6.D	Operator	: SV106:cmm
Date Inj'd	: 4/18/2024 10:03 pm	Instrument	: SV 106
Sample	: IL5,32,,ABNL5 Lot# 10694	Quant Date	: 4/19/2024 1:19 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	64714	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 99.84%			
34) IS1_Naphthalene-d8	7.239	136	232974	4.000	ug/ml #	0.00
Standard Area 1 = 235233			Recovery = 99.04%			
62) IS1_Acenaphthene-d10	9.004	164	155343	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 95.75%			
87) IS1_Phenanthrene-d10	10.422	188	339341	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 95.63%			
103) IS1_Chrysene-d12	12.974	240	302775	4.000	ug/ml #	0.00
Standard Area 1 = 311680			Recovery = 97.14%			
112) IS1_Perylene-d12	14.380	264	315479	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 96.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.128	112	42273	2.494	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.88%			
7) Phenol-d6	5.351	99	55405	2.451	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.02%			
19) Nitrobenzene-d5	6.451	82	57168	2.350	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 94.00%			
45) 2-Fluorobiphenyl	8.386	172	125883	2.504	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 100.16%			
78) 2,4,6-Tribromophenol	9.769	330	20560	2.570	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.40%			
95) 4-Terphenyl-d14	11.998	244	175427	2.632	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 105.28%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.393	74	28968	2.475	ug/ml	80
3) Pyridine	1.428	79	48652	2.471	ug/ml#	66
5) Aniline	5.257	93	72037	2.533	ug/ml	97
6) 2-Chlorophenol	5.416	128	45814	2.397	ug/ml	98
8) Phenol	5.369	94	58688	2.448	ug/ml#	90
9) Bis(2-chloroethyl)ether	5.439	93	47906	2.529	ug/ml#	84
10) 1,3-Dichlorobenzene	5.628	146	51859	2.423	ug/ml	93
11) 1,4-Dichlorobenzene	5.739	146	54080	2.522	ug/ml	95
12) 1,2-Dichlorobenzene	5.939	146	50608	2.471	ug/ml	94
13) Benzyl alcohol	5.987	79	44213	2.381	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	66946	2.408	ug/ml#	45

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	41105	2.462	ug/ml	95
16) Hexachloroethane	6.357	117	24101	2.563	ug/ml#	63
17) n-Nitrosodi-n-propylamine	6.339	70	37531	2.312	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.392	108	45926	2.503	ug/ml#	99
20) Nitrobenzene	6.469	77	57369	2.402	ug/ml	92
21) Isophorone	6.775	82	99959	2.391	ug/ml#	91
22) 2-Nitrophenol	6.845	139	22420	2.376	ug/ml#	90
23) 2,4-Dimethylphenol	6.986	107	47966	2.457	ug/ml	90
24) Bis(2-chloroethoxy)met...	7.075	93	62348	2.466	ug/ml	98
25) 2,4-Dichlorophenol	7.128	162	42884	2.372	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.198	180	51649	2.454	ug/ml	99
35) Naphthalene	7.257	128	142633	2.494	ug/ml	99
36) Benzoic Acid	7.086	105	31758	2.316	ug/ml	94
37) 4-Chloroaniline	7.369	65	21787	2.469	ug/ml	89
38) Hexachlorobutadiene	7.445	225	36401	2.502	ug/ml	99
39) p-Chloro-m-cresol	7.916	107	44975	2.428	ug/ml	96
40) 2-Methylnaphthalene	7.992	142	97519	2.503	ug/ml#	95
41) 1-Methylnaphthalene	8.086	115	39353	2.493	ug/ml	76
42) Hexachlorocyclopentadiene	8.175	237	37402	2.470	ug/ml	96
43) 2,4,6-Trichlorophenol	8.298	196	38928	2.520	ug/ml	98
44) 2,4,5-Trichlorophenol	8.328	196	39161	2.350	ug/ml	97
46) 2-Chloronaphthalene	8.463	162	101464	2.499	ug/ml	98
47) 2-Nitroaniline	8.592	138	29376	2.436	ug/ml	92
48) 1,4-Dinitrobenzene	8.733	168	15147	2.286	ug/ml	99
49) 1,3-Dinitrobenzene	8.804	168	17913	2.381	ug/ml#	1
50) Dimethyl phthalate	8.810	163	135194	2.476	ug/ml#	98
51) Acenaphthylene	8.863	152	159085	2.501	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	26832	2.414	ug/ml#	79
53) 1,2-Dinitrobenzene	8.880	168	11246	2.507	ug/ml#	1
63) 3-Nitroaniline	8.992	138	27832	2.583	ug/ml#	85
64) Acenaphthene	9.033	154	93145	2.600	ug/ml	94
65) 2,4-Dinitrophenol	9.098	184	14858	2.387	ug/ml	92
66) Dibenzofuran	9.210	168	157906	2.655	ug/ml#	73
67) 2,4-Dinitrotoluene	9.227	165	38831	2.523	ug/ml#	92
68) 4-Nitrophenol	9.204	65	31429	2.546	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	33966	2.414	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.345	232	33988	2.553	ug/ml	96
71) Diethyl phthalate	9.504	149	138273	2.581	ug/ml	99
72) Fluorene	9.533	166	124077	2.578	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.569	204	65387	2.628	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	27212	2.458	ug/ml#	71
75)	4,6-Dinitro-o-cresol	9.616	198	20707	2.424	ug/ml#	67
76)	NDPA/DPA	9.686	169	104994	2.561	ug/ml	95
77)	Azobenzene	9.716	77	128732	2.506	ug/ml	99
79)	4-Bromophenyl phenyl e...	10.033	248	39912	2.618	ug/ml#	88
80)	Hexachlorobenzene	10.069	284	46569	2.740	ug/ml#	85
81)	Pentachlorophenol	10.269	266	26956	2.494	ug/ml	96
88)	Phenanthrene	10.445	178	194063	2.610	ug/ml	98
89)	Anthracene	10.492	178	195450	2.594	ug/ml	98
90)	Carbazole	10.669	167	184945	2.592	ug/ml	99
91)	Di-n-butylphthalate	11.086	149	221326	2.504	ug/ml	99
92)	Fluoranthene	11.574	202	229795	2.590	ug/ml#	90
93)	Benzidine	11.751	184	132104	2.371	ug/ml#	94
94)	Pyrene	11.786	202	243980	2.628	ug/ml	99
96)	Butyl benzyl phthalate	12.515	149	91022	2.419	ug/ml	96
104)	Benzo(a)anthracene	12.963	228	231341	2.551	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.986	252	78380	2.423	ug/ml	97
106)	Chrysene	12.998	228	227630	2.609	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.139	149	140111	2.515	ug/ml#	92
108)	Di-n-octylphthalate	13.792	149	217017	2.362	ug/ml#	74
109)	Benzo(b)fluoranthene	14.021	252	211427	2.398	ug/ml#	93
110)	Benzo(k)fluoranthene	14.051	252	219618	2.825	ug/ml#	92
111)	Benzo(a)pyrene	14.321	252	196968	2.619	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	15.304	276	170757M6	2.423	ug/mL	
114)	Dibenzo(a,h)anthracene	15.339	278	173139	2.507	ug/ml#	90
115)	Benzo(ghi)perylene	15.515	276	172485	2.582	ug/ml#	83

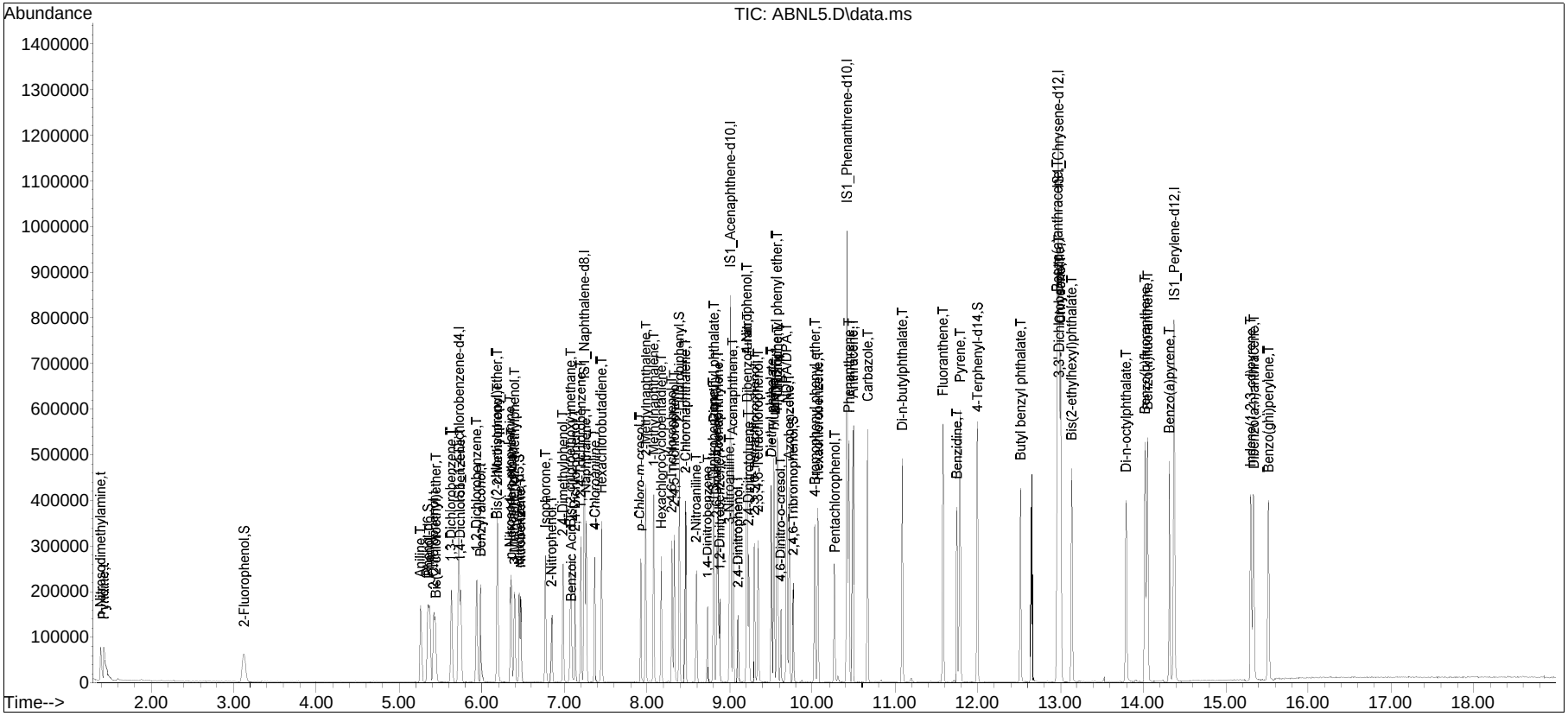
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL5.D
Acq On : 18 Apr 2024 10:27 pm
Operator : SV106:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1911693,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 19 13:29:04 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

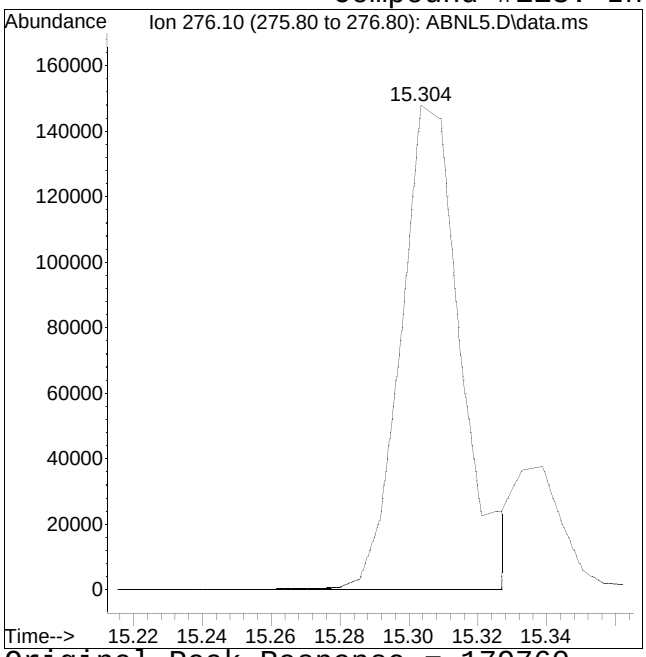
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



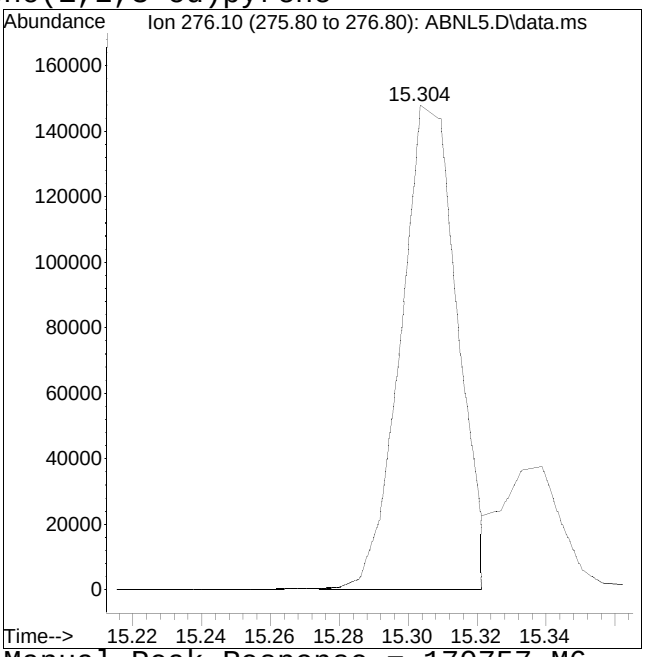
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL5.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 10:27 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 179760



Manual Peak Response = 170757 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.716	152	60991	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 94.10%			
34) IS1_Naphthalene-d8	7.239	136	225810	4.000	ug/ml #	0.00
Standard Area 1 = 235233			Recovery = 95.99%			
62) IS1_Acenaphthene-d10	9.004	164	150429	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 92.72%			
87) IS1_Phenanthrene-d10	10.422	188	331413	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 93.39%			
103) IS1_Chrysene-d12	12.974	240	293705	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 94.23%			
112) IS1_Perylene-d12	14.380	264	302646	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 92.42%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.116	112	14489	0.907	ug/ml	-0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 18.14%			
7) Phenol-d6	5.351	99	20729	0.973	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.46%			
19) Nitrobenzene-d5	6.451	82	22773	0.993	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.72%			
45) 2-Fluorobiphenyl	8.386	172	48393	0.993	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.72%			
78) 2,4,6-Tribromophenol	9.769	330	7248	0.936	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18.72%			
95) 4-Terphenyl-d14	11.998	244	67976	1.044	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.76%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.399	74	10852	0.984	ug/ml#	84
3) Pyridine	1.452	79	15477	0.834	ug/ml#	65
5) Aniline	5.263	93	25738	0.960	ug/ml	98
6) 2-Chlorophenol	5.422	128	16707	0.928	ug/ml	98
8) Phenol	5.369	94	22157	0.980	ug/ml#	89
9) Bis(2-chloroethyl)ether	5.440	93	18015	1.009	ug/ml#	81
10) 1,3-Dichlorobenzene	5.628	146	20635	1.023	ug/ml	97
11) 1,4-Dichlorobenzene	5.740	146	20192	0.999	ug/ml	89
12) 1,2-Dichlorobenzene	5.940	146	19244	0.997	ug/ml	99
13) Benzyl alcohol	5.987	79	16924	0.967	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.181	45	26311	1.004	ug/ml#	50

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.187	108	15062	0.957	ug/ml#	97
16) Hexachloroethane	6.357	117	8678	0.979	ug/ml#	69
17) n-Nitrosodi-n-propylamine	6.345	70	15126	0.989	ug/ml#	87
18) 3-Methylphenol/4-Methy...	6.392	108	16594	0.959	ug/ml	99
20) Nitrobenzene	6.475	77	20687	0.919	ug/ml	97
21) Isophorone	6.775	82	38642	0.981	ug/ml	95
22) 2-Nitrophenol	6.851	139	8762	0.985	ug/ml#	92
23) 2,4-Dimethylphenol	6.987	107	17730	0.964	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.075	93	25040	1.051	ug/ml	98
25) 2,4-Dichlorophenol	7.128	162	16288	0.956	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.198	180	19492	0.983	ug/ml	96
35) Naphthalene	7.263	128	54055	0.975	ug/ml	98
36) Benzoic Acid	7.069	105	10957	0.825	ug/ml	96
37) 4-Chloroaniline	7.369	65	8528	0.997	ug/ml	93
38) Hexachlorobutadiene	7.445	225	13570	0.962	ug/ml	95
39) p-Chloro-m-cresol	7.922	107	18274	1.018	ug/ml	92
40) 2-Methylnaphthalene	7.992	142	36817	0.975	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	15475M3	1.011	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	14480	0.987	ug/ml	99
43) 2,4,6-Trichlorophenol	8.298	196	14035	0.938	ug/ml	99
44) 2,4,5-Trichlorophenol	8.328	196	14859	0.920	ug/ml	97
46) 2-Chloronaphthalene	8.463	162	41090	1.044	ug/ml	96
47) 2-Nitroaniline	8.592	138	11180	0.957	ug/ml	96
48) 1,4-Dinitrobenzene	8.733	168	5634	0.877	ug/ml	98
49) 1,3-Dinitrobenzene	8.804	168	6234	0.855	ug/ml#	1
50) Dimethyl phthalate	8.810	163	53014	1.002	ug/ml#	98
51) Acenaphthylene	8.863	152	59714	0.969	ug/ml	100
52) 2,6-Dinitrotoluene	8.845	165	10254	0.952	ug/ml#	81
53) 1,2-Dinitrobenzene	8.880	168	4203	0.967	ug/ml#	1
63) 3-Nitroaniline	8.998	138	10150	0.973	ug/ml#	65
64) Acenaphthene	9.033	154	36617	1.056	ug/ml	94
65) 2,4-Dinitrophenol	9.098	184	5009	0.831	ug/ml#	83
66) Dibenzofuran	9.210	168	60523	1.051	ug/ml#	71
67) 2,4-Dinitrotoluene	9.228	165	14057	0.943	ug/ml	87
68) 4-Nitrophenol	9.204	65	10392	0.869	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	13146	0.965	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	12938	1.004	ug/ml	97
71) Diethyl phthalate	9.504	149	53342	1.028	ug/ml	99
72) Fluorene	9.533	166	51209	1.099	ug/ml	99
73) 4-Chlorophenyl phenyl ...	9.569	204	26449	1.098	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	10960	1.022	ug/ml#	83
75)	4,6-Dinitro-o-cresol	9.616	198	7287	0.881	ug/ml#	71
76)	NDPA/DPA	9.686	169	40680	1.025	ug/ml	94
77)	Azobenzene	9.716	77	49915	1.003	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.033	248	15202	1.030	ug/ml	88
80)	Hexachlorobenzene	10.069	284	17080	1.038	ug/ml#	85
81)	Pentachlorophenol	10.269	266	9154	0.875	ug/ml	99
88)	Phenanthrene	10.445	178	76381	1.052	ug/ml	99
89)	Anthracene	10.492	178	77115	1.048	ug/ml	98
90)	Carbazole	10.669	167	70897	1.017	ug/ml	100
91)	Di-n-butylphthalate	11.086	149	81865	0.948	ug/ml	98
92)	Fluoranthene	11.580	202	88674	1.023	ug/ml#	93
93)	Benzidine	11.751	184	46889	0.862	ug/ml#	95
94)	Pyrene	11.786	202	93139	1.027	ug/ml	98
96)	Butyl benzyl phthalate	12.516	149	33157	0.902	ug/ml	94
104)	Benzo(a)anthracene	12.963	228	88727	1.009	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.986	252	28938	0.922	ug/ml	97
106)	Chrysene	12.998	228	91393	1.080	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.139	149	51569	0.954	ug/ml#	91
108)	Di-n-octylphthalate	13.792	149	77121	0.865	ug/ml#	73
109)	Benzo(b)fluoranthene	14.021	252	78611	0.919	ug/ml#	92
110)	Benzo(k)fluoranthene	14.051	252	84294	1.118	ug/ml#	93
111)	Benzo(a)pyrene	14.321	252	71947	0.986	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	15.304	276	68228	1.009	ug/mL#	86
114)	Dibenzo(a,h)anthracene	15.333	278	66018	0.996	ug/ml#	90
115)	Benzo(ghi)perylene	15.515	276	65343	1.020	ug/ml#	85

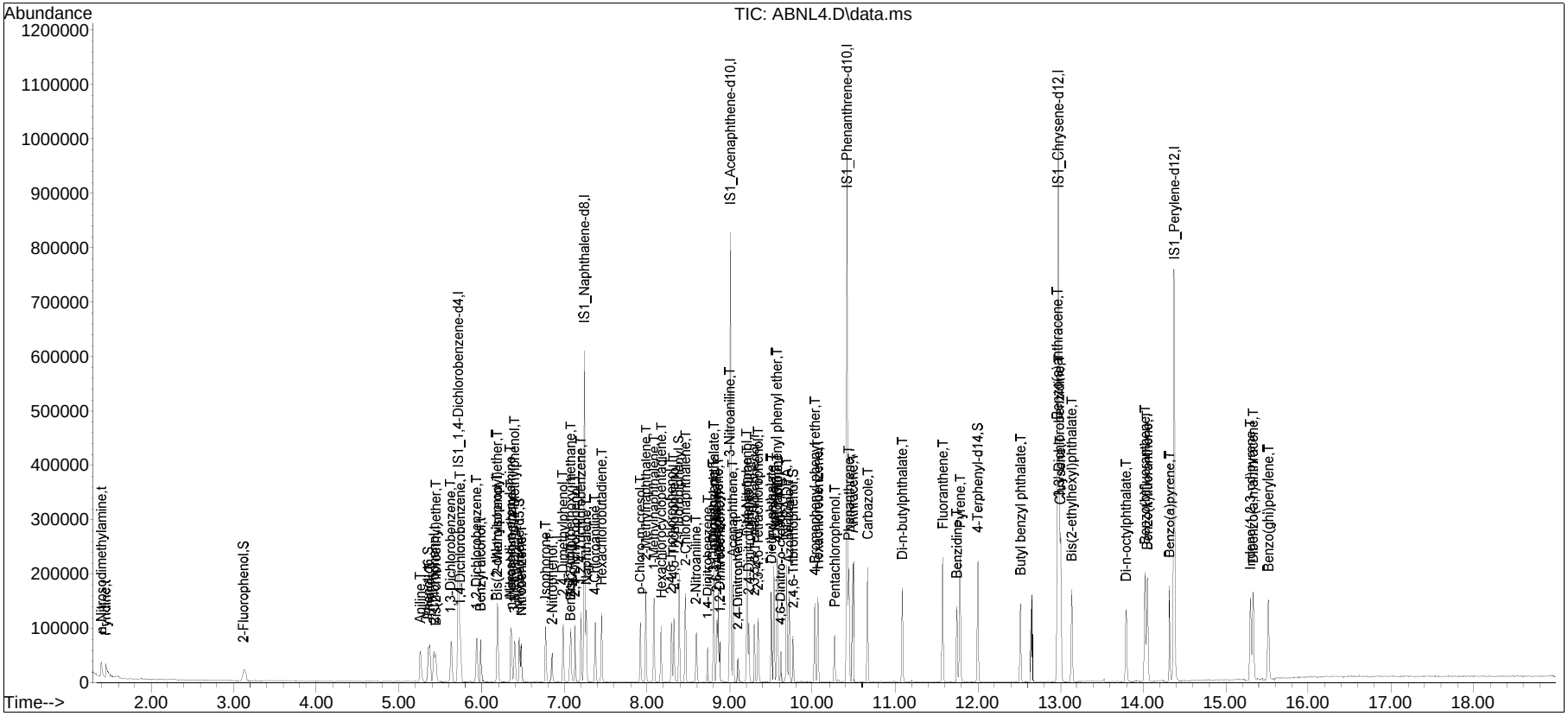
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL4.D
Acq On : 18 Apr 2024 10:51 pm
Operator : SV106:cmm
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1911693,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 19 13:27:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

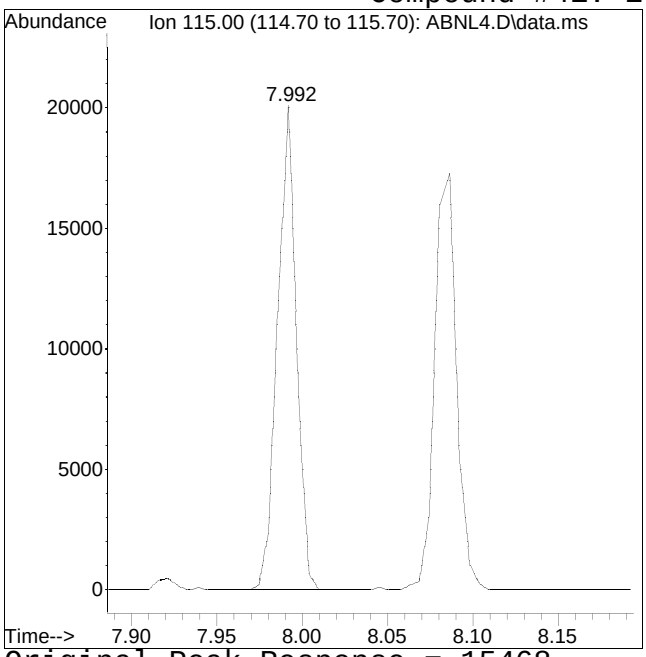
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

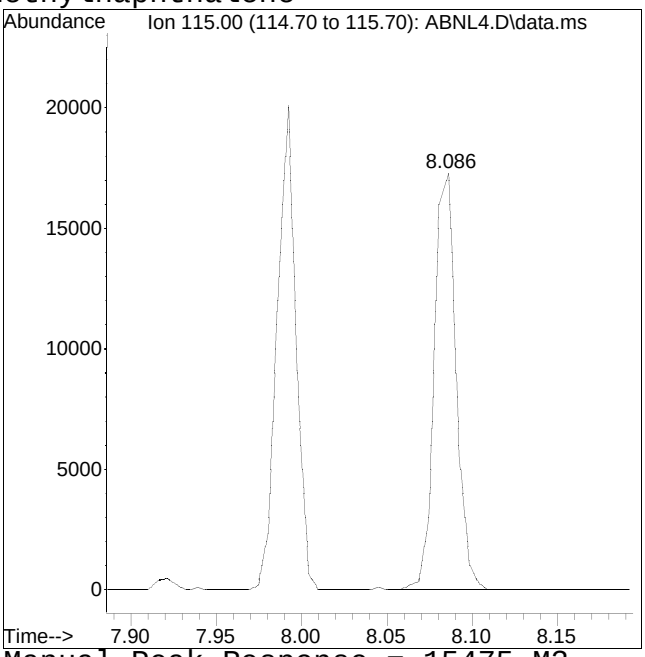


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL4.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 10:51 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 4/19/2024 1:19 pm

Compound #41: 1-Methylnaphthalene





Original Peak Response = 15468 Manual Peak Response = 15475 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	61248	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 94.49%			
34) IS1_Naphthalene-d8	7.239	136	219448	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 93.29%			
62) IS1_Acenaphthene-d10	9.004	164	147890	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 91.16%			
87) IS1_Phenanthrene-d10	10.421	188	326641	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 92.05%			
103) IS1_Chrysene-d12	12.974	240	283933	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 91.10%			
112) IS1_Perylene-d12	14.380	264	299020	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 91.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.122	112	9516	0.593	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 11.86%#			
7) Phenol-d6	5.351	99	11919	0.557	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 11.14%#			
19) Nitrobenzene-d5	6.451	82	12986	0.564	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 22.56%#			
45) 2-Fluorobiphenyl	8.386	172	27773	0.586	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 23.44%#			
78) 2,4,6-Tribromophenol	9.769	330	4680	0.615	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 12.30%#			
95) 4-Terphenyl-d14	11.992	244	35852	0.559	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 22.36%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.404	74	6085	0.549	ug/ml#	81
3) Pyridine	1.469	79	8974	0.482	ug/ml#	32
5) Aniline	5.263	93	15618	0.580	ug/ml	92
6) 2-Chlorophenol	5.422	128	9669	0.535	ug/ml	97
8) Phenol	5.369	94	13397	0.590	ug/ml	95
9) Bis(2-chloroethyl)ether	5.445	93	9834	0.549	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	11472	0.566	ug/ml	93
11) 1,4-Dichlorobenzene	5.745	146	12378M3	0.610	ug/ml	
12) 1,2-Dichlorobenzene	5.939	146	11729	0.605	ug/ml	95
13) Benzyl alcohol	5.992	79	9449	0.538	ug/ml	89
14) Bis(2-chloroisopropyl)...	6.186	45	15112	0.574	ug/ml#	44

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	8777	0.555	ug/ml	98
16) Hexachloroethane	6.357	117	4840	0.544	ug/ml#	55
17) n-Nitrosodi-n-propylamine	6.345	70	7986	0.520	ug/ml#	93
18) 3-Methylphenol/4-Methy...	6.392	108	10310	0.594	ug/ml	90
20) Nitrobenzene	6.475	77	11465	0.507	ug/ml	94
21) Isophorone	6.781	82	21138	0.534	ug/ml#	87
22) 2-Nitrophenol	6.851	139	4692	0.525	ug/ml#	92
23) 2,4-Dimethylphenol	6.986	107	9652	0.522	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.080	93	13036	0.545	ug/ml#	96
25) 2,4-Dichlorophenol	7.128	162	8863	0.518	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.198	180	11351	0.570	ug/ml	96
35) Naphthalene	7.257	128	33424	0.620	ug/ml	98
36) Benzoic Acid	7.063	105	3337	0.258	ug/ml	90
37) 4-Chloroaniline	7.369	65	4846	0.583	ug/ml	81
38) Hexachlorobutadiene	7.445	225	8393	0.612	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	9063	0.519	ug/ml	92
40) 2-Methylnaphthalene	7.992	142	20740	0.565	ug/ml#	92
41) 1-Methylnaphthalene	8.086	115	8805	0.592	ug/ml#	68
42) Hexachlorocyclopentadiene	8.175	237	7635	0.535	ug/ml	93
43) 2,4,6-Trichlorophenol	8.298	196	6962	0.479	ug/ml	97
44) 2,4,5-Trichlorophenol	8.327	196	8194	0.522	ug/ml	95
46) 2-Chloronaphthalene	8.463	162	22700	0.594	ug/ml	96
47) 2-Nitroaniline	8.592	138	6043	0.532	ug/ml	94
48) 1,4-Dinitrobenzene	8.733	168	3442	0.552	ug/ml	82
49) 1,3-Dinitrobenzene	8.810	168	3937	0.555	ug/ml#	1
50) Dimethyl phthalate	8.810	163	28093	0.546	ug/ml#	95
51) Acenaphthylene	8.863	152	33337	0.556	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	4873	0.465	ug/ml#	72
53) 1,2-Dinitrobenzene	8.880	168	2521	0.597	ug/ml	99
63) 3-Nitroaniline	8.992	138	5351	0.522	ug/ml#	47
64) Acenaphthene	9.033	154	19037	0.558	ug/ml	88
65) 2,4-Dinitrophenol	9.098	184	1841	0.311	ug/ml	95
66) Dibenzofuran	9.210	168	34329	0.606	ug/ml#	80
67) 2,4-Dinitrotoluene	9.227	165	8401	0.573	ug/ml#	80
68) 4-Nitrophenol	9.204	65	5226	0.445	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	6045	0.451	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	9.345	232	6851	0.541	ug/ml	95
71) Diethyl phthalate	9.504	149	28547	0.560	ug/ml	98
72) Fluorene	9.533	166	26230	0.572	ug/ml	97
73) 4-Chlorophenyl phenyl ...	9.569	204	14410	0.608	ug/ml	90

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.574	138	5647	0.536	ug/ml#	86
75)	4,6-Dinitro-o-cresol	9.616	198	3575	0.440	ug/ml#	77
76)	NDPA/DPA	9.686	169	20900	0.535	ug/ml	90
77)	Azobenzene	9.716	77	29129	0.596	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.033	248	8841	0.609	ug/ml#	85
80)	Hexachlorobenzene	10.069	284	9363	0.579	ug/ml	87
81)	Pentachlorophenol	10.269	266	4707	0.457	ug/ml	92
88)	Phenanthrene	10.445	178	41660	0.582	ug/ml	99
89)	Anthracene	10.492	178	40760	0.562	ug/ml	97
90)	Carbazole	10.668	167	37148	0.541	ug/ml	98
91)	Di-n-butylphthalate	11.086	149	43066	0.506	ug/ml	97
92)	Fluoranthene	11.580	202	47429	0.555	ug/ml#	90
93)	Benzidine	11.751	184	23762	0.443	ug/ml#	95
94)	Pyrene	11.786	202	52551	0.588	ug/ml	96
96)	Butyl benzyl phthalate	12.515	149	18261	0.504	ug/ml	88
104)	Benzo(a)anthracene	12.962	228	47424	0.558	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.986	252	15631	0.515	ug/ml	96
106)	Chrysene	12.998	228	50483	0.617	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.139	149	27283	0.522	ug/ml#	92
108)	Di-n-octylphthalate	13.792	149	40918	0.475	ug/ml#	76
109)	Benzo(b)fluoranthene	14.021	252	42172	0.510	ug/ml#	95
110)	Benzo(k)fluoranthene	14.051	252	44657	0.613	ug/ml#	92
111)	Benzo(a)pyrene	14.321	252	37671	0.534	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	15.303	276	34577	0.518	ug/mL#	86
114)	Dibenzo(a,h)anthracene	15.333	278	34890	0.533	ug/ml#	91
115)	Benzo(ghi)perylene	15.515	276	34165	0.540	ug/ml#	84

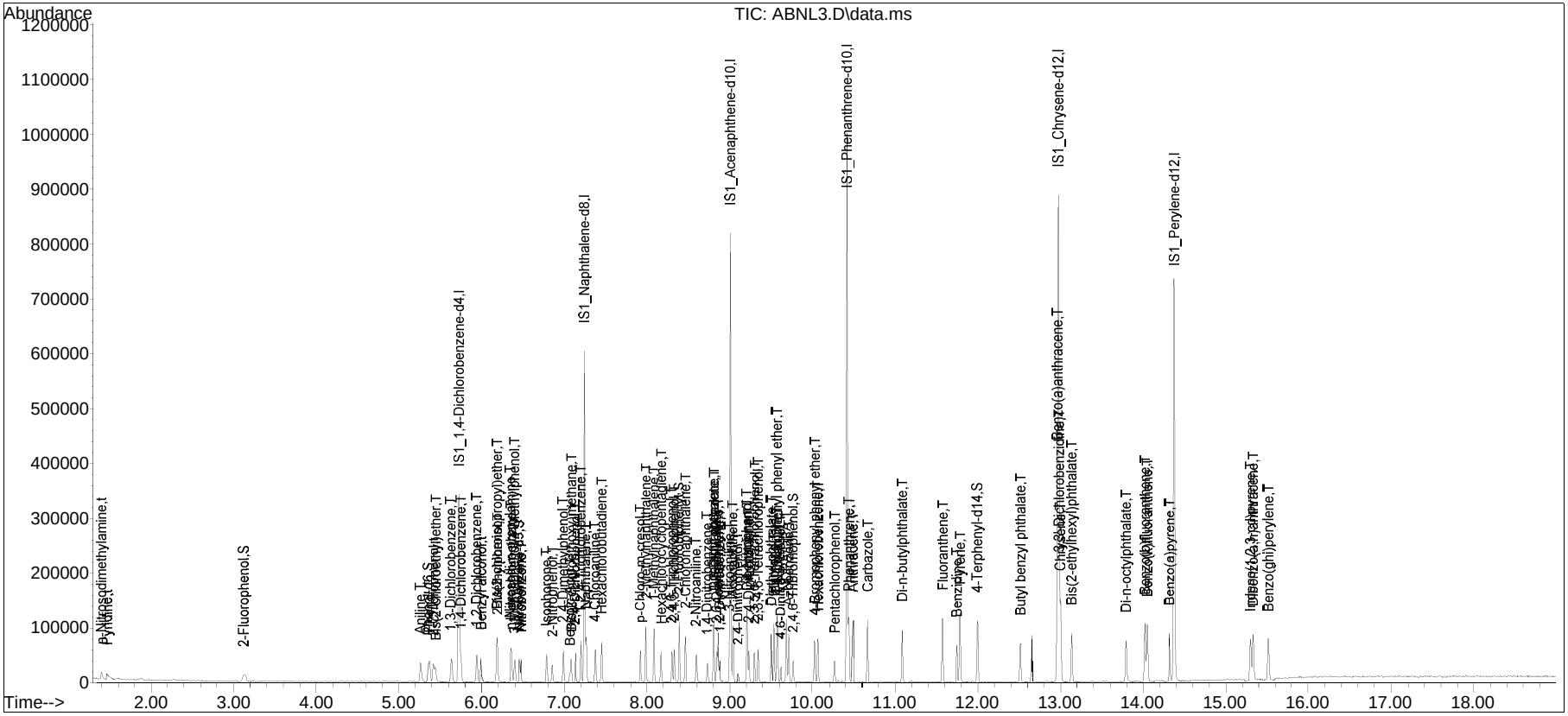
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL3.D
Acq On : 18 Apr 2024 11:15 pm
Operator : SV106:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1911693,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 19 13:25:33 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

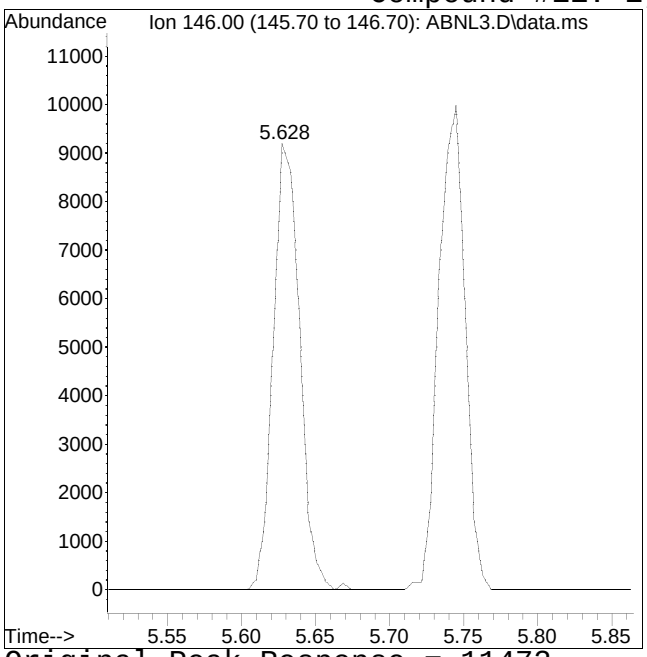
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

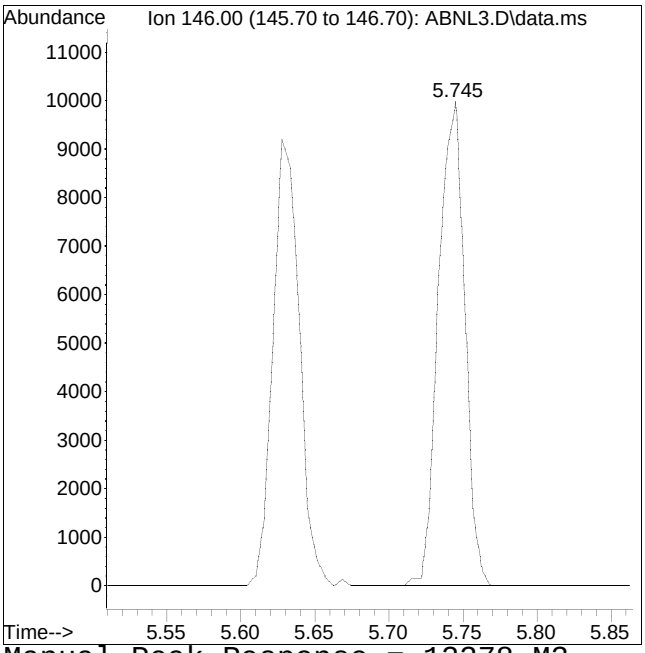


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL3.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:15 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 10697Quant Date : 4/19/2024 1:19 pm

Compound #11: 1,4-Dichlorobenzene





Original Peak Response = 11472 Manual Peak Response = 12378 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	62113	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 95.83%			
34) IS1_Naphthalene-d8	7.239	136	228711	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 97.23%			
62) IS1_Acenaphthene-d10	9.004	164	153406	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 94.56%			
87) IS1_Phenanthrene-d10	10.422	188	337870	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 95.21%			
103) IS1_Chrysene-d12	12.974	240	289762	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 92.97%			
112) IS1_Perylene-d12	14.374	264	301663	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 92.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.128	112	3701	0.227	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4.54%#			
7) Phenol-d6	5.351	99	4896	0.226	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4.52%#			
19) Nitrobenzene-d5	6.451	82	5144	0.220	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.80%#			
45) 2-Fluorobiphenyl	8.386	172	12220	0.248	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9.92%#			
78) 2,4,6-Tribromophenol	9.769	330	1455	0.184	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.68%#			
95) 4-Terphenyl-d14	11.998	244	15843	0.239	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9.56%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.404	74	2720	0.242	ug/ml#	75
3) Pyridine	1.499	79	3367M1	0.178	ug/ml	
5) Aniline	5.269	93	6652	0.244	ug/ml	94
6) 2-Chlorophenol	5.422	128	4144	0.226	ug/ml	95
8) Phenol	5.369	94	5060	0.220	ug/ml#	86
9) Bis(2-chloroethyl)ether	5.445	93	3989	0.219	ug/ml#	67
10) 1,3-Dichlorobenzene	5.634	146	5303	0.258	ug/ml	95
11) 1,4-Dichlorobenzene	5.745	146	5596M3	0.272	ug/ml	
12) 1,2-Dichlorobenzene	5.939	146	4799	0.244	ug/ml	87
13) Benzyl alcohol	5.992	79	3716	0.209	ug/ml	87
14) Bis(2-chloroisopropyl)...	6.181	45	6285	0.235	ug/ml#	46

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.192	108	3360	0.210	ug/ml	89
16) Hexachloroethane	6.363	117	1936	0.214	ug/ml#	58
17) n-Nitrosodi-n-propylamine	6.351	70	3621	0.232	ug/ml#	83
18) 3-Methylphenol/4-Methy...	6.398	108	4055	0.230	ug/ml	95
20) Nitrobenzene	6.475	77	4951	0.216	ug/ml	95
21) Isophorone	6.781	82	8361	0.208	ug/ml#	90
22) 2-Nitrophenol	6.851	139	2065	0.228	ug/ml	97
23) 2,4-Dimethylphenol	6.986	107	4508	0.241	ug/ml#	85
24) Bis(2-chloroethoxy)met...	7.081	93	6209	0.256	ug/ml#	90
25) 2,4-Dichlorophenol	7.128	162	3983	0.230	ug/ml	88
26) 1,2,4-Trichlorobenzene	7.198	180	4947	0.245	ug/ml	98
35) Naphthalene	7.263	128	13185	0.235	ug/ml	95
36) Benzoic Acid	7.063	105	578	0.043	ug/ml#	67
37) 4-Chloroaniline	7.369	65	1784	0.206	ug/ml	99
38) Hexachlorobutadiene	7.445	225	3617	0.253	ug/ml	90
39) p-Chloro-m-cresol	7.922	107	3871	0.213	ug/ml	88
40) 2-Methylnaphthalene	7.992	142	8921	0.233	ug/ml#	94
41) 1-Methylnaphthalene	8.086	115	3723	0.240	ug/ml	76
42) Hexachlorocyclopentadiene	8.175	237	2846	0.191	ug/ml#	81
43) 2,4,6-Trichlorophenol	8.298	196	2543M3	0.168	ug/ml	
44) 2,4,5-Trichlorophenol	8.328	196	3587	0.219	ug/ml	86
46) 2-Chloronaphthalene	8.469	162	9143	0.229	ug/ml	95
47) 2-Nitroaniline	8.592	138	2306	0.195	ug/ml#	88
48) 1,4-Dinitrobenzene	8.733	168	1121	0.172	ug/ml	95
49) 1,3-Dinitrobenzene	8.804	168	1425	0.193	ug/ml#	1
50) Dimethyl phthalate	8.810	163	12951	0.242	ug/ml#	88
51) Acenaphthylene	8.863	152	14176	0.227	ug/ml	99
52) 2,6-Dinitrotoluene	8.845	165	2127	0.195	ug/ml#	66
53) 1,2-Dinitrobenzene	8.880	168	780	0.177	ug/ml#	1
63) 3-Nitroaniline	8.998	138	2411	0.227	ug/ml#	39
64) Acenaphthene	9.033	154	7893	0.223	ug/ml#	82
65) 2,4-Dinitrophenol	9.098	184	490M2	0.080	ug/ml	
66) Dibenzofuran	9.204	168	14613	0.249	ug/ml#	78
67) 2,4-Dinitrotoluene	9.227	165	2908	0.191	ug/ml	86
68) 4-Nitrophenol	9.204	65	2092	0.172	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	2443	0.176	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	2117	0.161	ug/ml	87
71) Diethyl phthalate	9.504	149	11706	0.221	ug/ml#	97
72) Fluorene	9.533	166	11363	0.239	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.569	204	5779	0.235	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	1993	0.182	ug/ml#	71
75)	4,6-Dinitro-o-cresol	9.616	198	1109	0.131	ug/ml#	81
76)	NDPA/DPA	9.686	169	8931	0.221	ug/ml	97
77)	Azobenzene	9.716	77	11602	0.229	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.033	248	3471	0.231	ug/ml	88
80)	Hexachlorobenzene	10.069	284	4511	0.269	ug/ml#	86
81)	Pentachlorophenol	10.269	266	1933	0.181	ug/ml#	85
88)	Phenanthrene	10.445	178	19003	0.257	ug/ml	95
89)	Anthracene	10.492	178	17777	0.237	ug/ml	98
90)	Carbazole	10.669	167	14911	0.210	ug/ml	97
91)	Di-n-butylphthalate	11.086	149	18075	0.205	ug/ml#	97
92)	Fluoranthene	11.580	202	19789M3	0.224	ug/ml	
93)	Benzidine	11.751	184	8512	0.153	ug/ml#	95
94)	Pyrene	11.786	202	21002	0.227	ug/ml	98
96)	Butyl benzyl phthalate	12.516	149	7071	0.189	ug/ml	89
104)	Benzo(a)anthracene	12.963	228	20816	0.240	ug/ml	98
105)	3,3'-Dichlorobenzidine	12.986	252	6178	0.200	ug/ml#	92
106)	Chrysene	12.998	228	21314	0.255	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.139	149	10773	0.202	ug/ml#	93
108)	Di-n-octylphthalate	13.792	149	15357	0.175	ug/ml#	75
109)	Benzo(b)fluoranthene	14.021	252	17412M3	0.206	ug/ml	
110)	Benzo(k)fluoranthene	14.051	252	17346	0.233	ug/ml	95
111)	Benzo(a)pyrene	14.321	252	14796	0.206	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	15.304	276	13913	0.206	ug/mL	93
114)	Dibenzo(a,h)anthracene	15.339	278	13009	0.197	ug/ml#	92
115)	Benzo(ghi)perylene	15.509	276	14590	0.228	ug/ml#	87

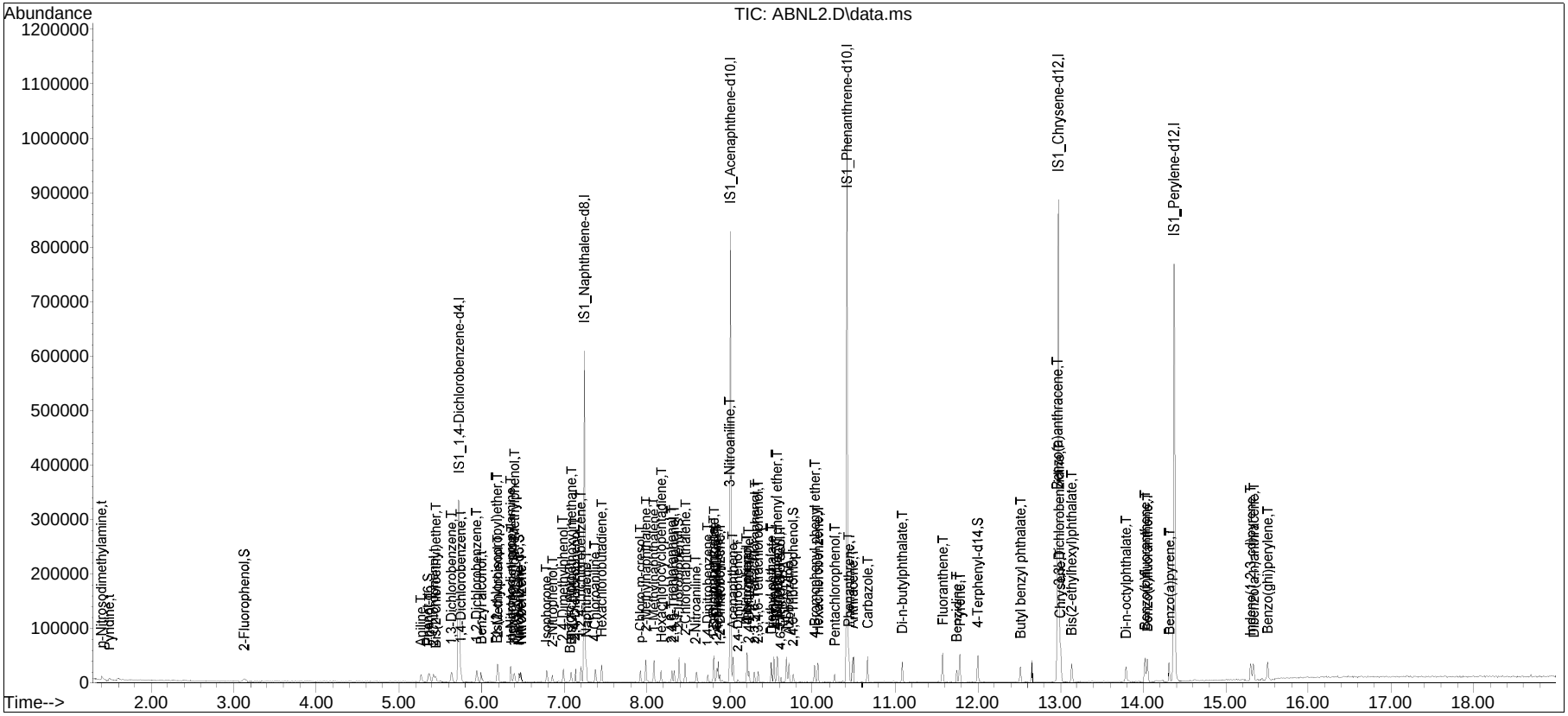
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL2.D
Acq On : 18 Apr 2024 11:39 pm
Operator : SV106:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1911693,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 19 13:24:57 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

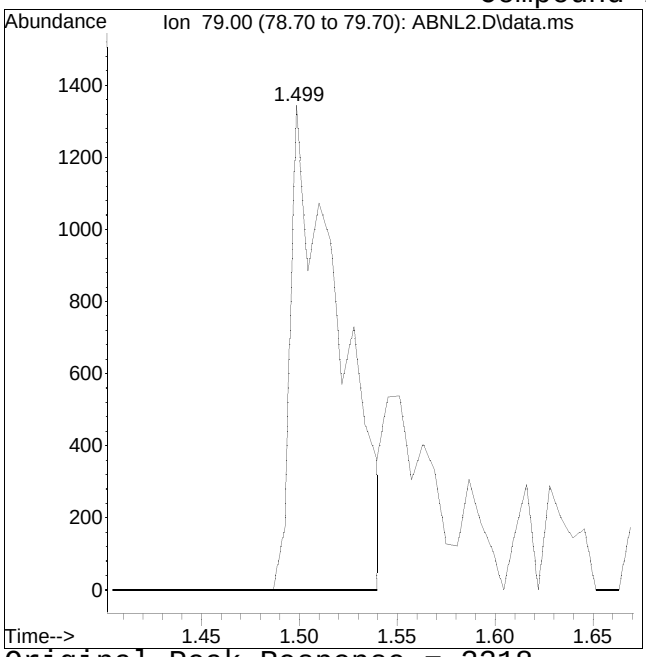
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

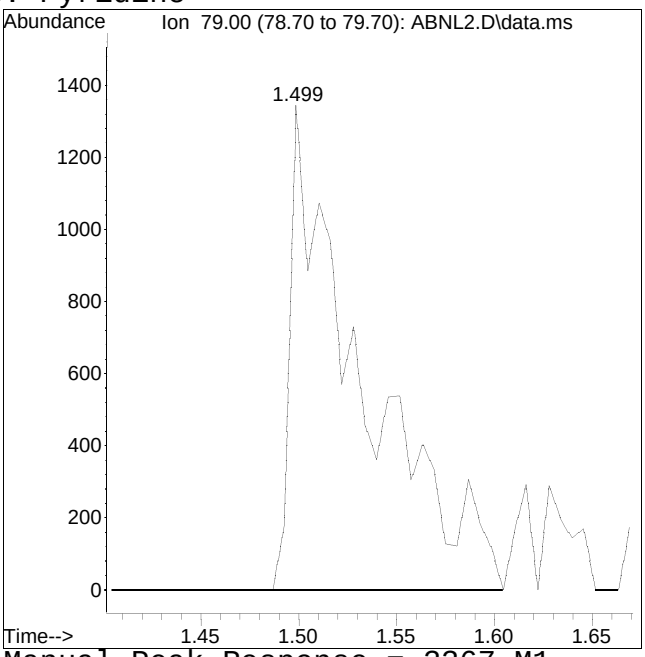


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #3: Pyridine



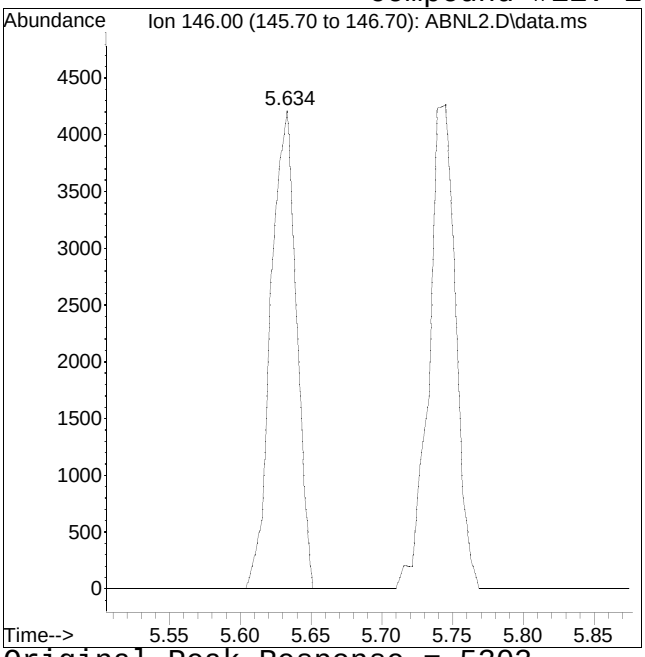


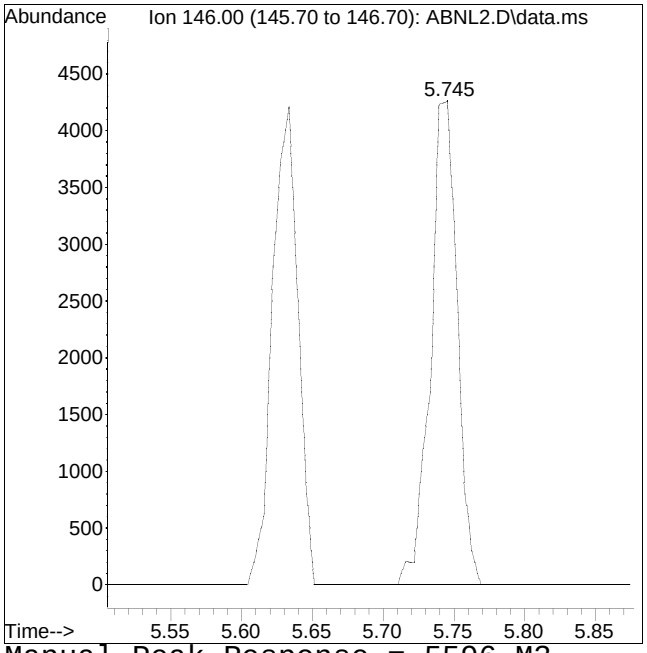
Original Peak Response = 2318 Manual Peak Response = 3367 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #11: 1,4-Dichlorobenzene





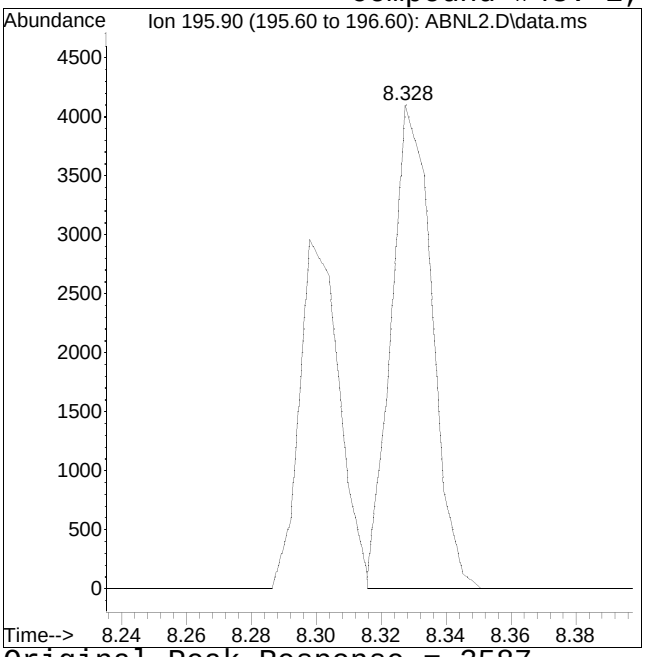
Original Peak Response = 5303 Manual Peak Response = 5596 M3

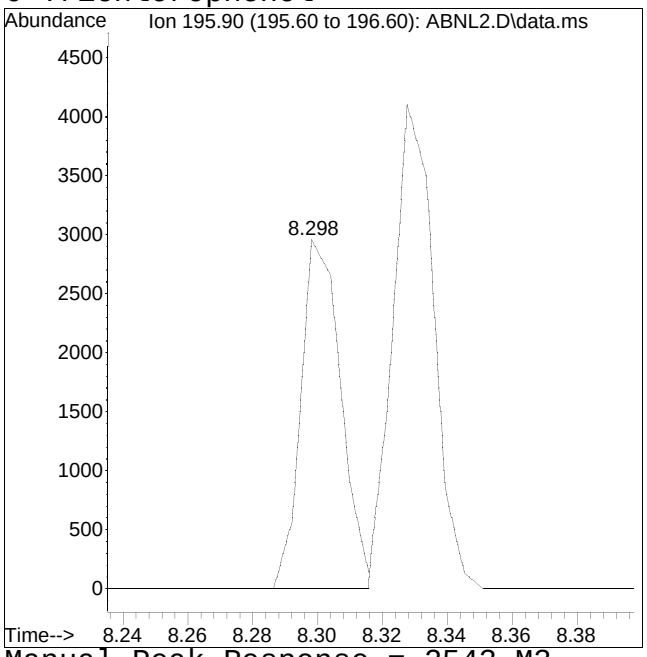
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #43: 2,4,6-Trichlorophenol





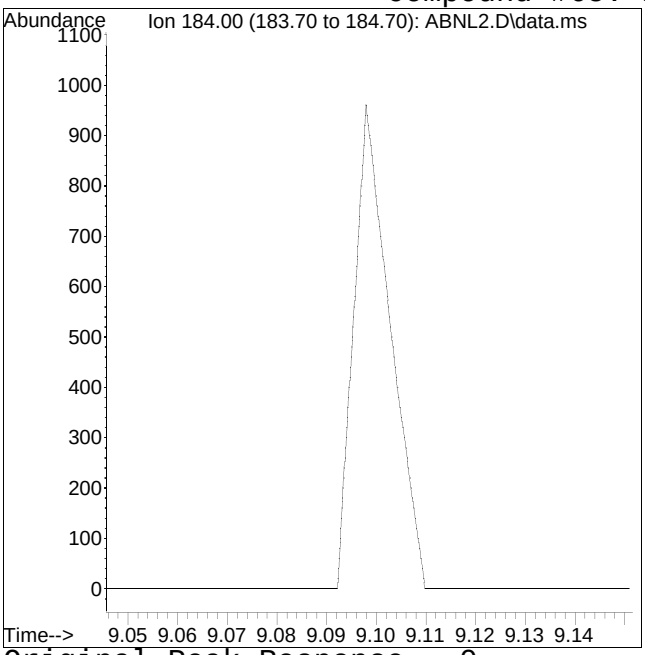
Original Peak Response = 3587 Manual Peak Response = 2543 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

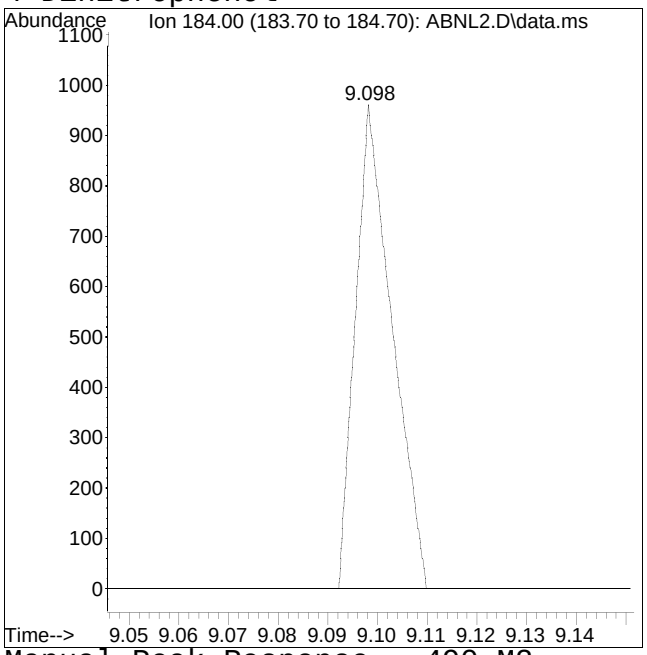
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #65: 2,4-Dinitrophenol



Original Peak Response = 0



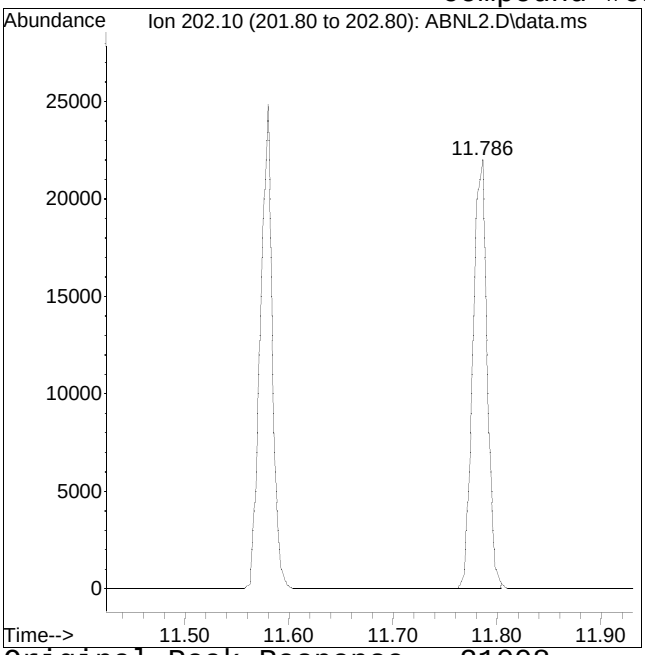
Manual Peak Response = 490 M2

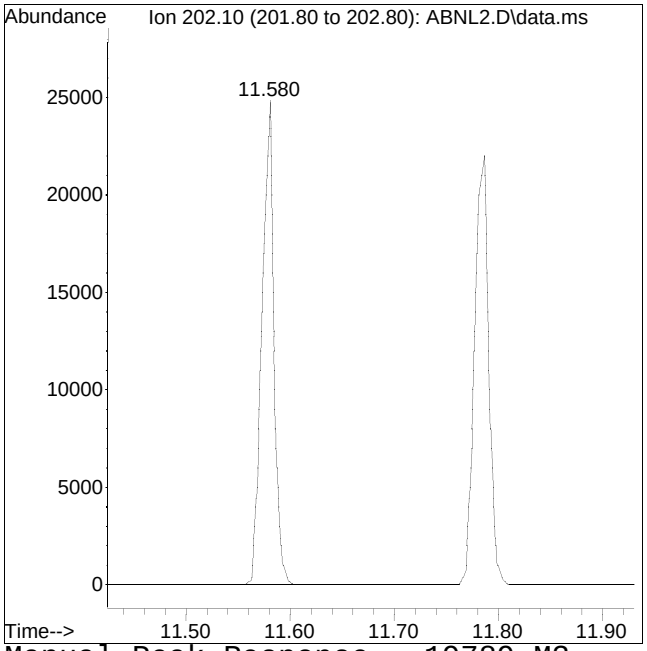
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #92: Fluoranthene



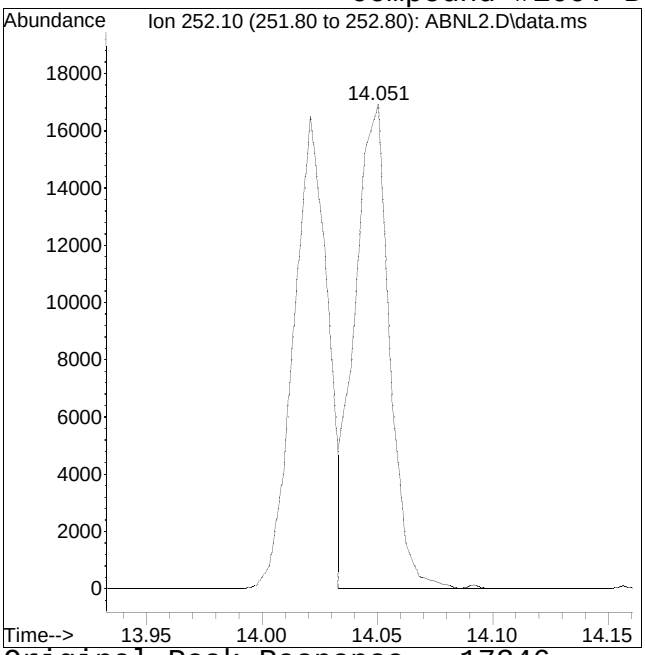


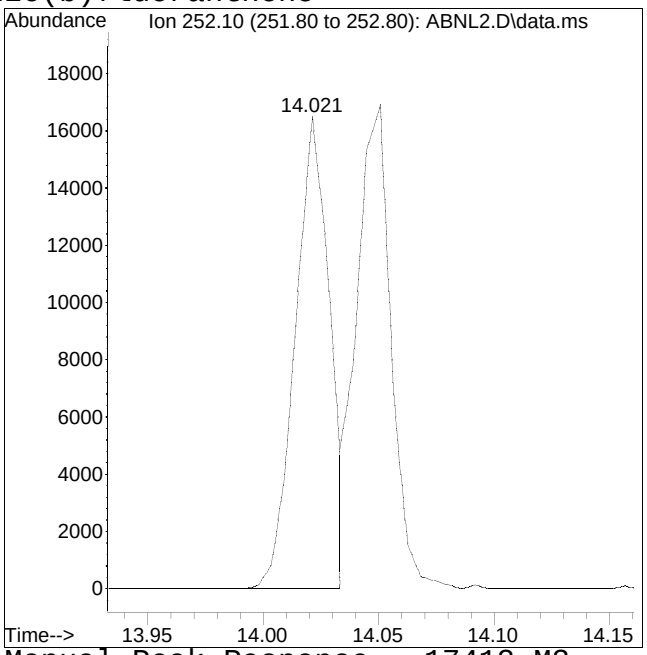
Original Peak Response = 21008 Manual Peak Response = 19789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL2.D Operator : SV106:cmm
Date Inj'd : 4/18/2024 11:39 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10698Quant Date : 4/19/2024 1:19 pm

Compound #109: Benzo(b)fluoranthene





Original Peak Response = 17346 Manual Peak Response = 17412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	60755	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 93.73%			
34) IS1_Naphthalene-d8	7.240	136	216723	4.000	ug/ml	# 0.00
Standard Area 1 = 235233			Recovery = 92.13%			
62) IS1_Acenaphthene-d10	9.004	164	142325	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 87.73%			
87) IS1_Phenanthrene-d10	10.422	188	314149	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 88.53%			
103) IS1_Chrysene-d12	12.974	240	264683	4.000	ug/ml	0.00
Standard Area 1 = 311680			Recovery = 84.92%			
112) IS1_Perylene-d12	14.374	264	281946	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 86.10%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.134	112	1958	0.123	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 2.46%#			
7) Phenol-d6	5.351	99	2086	0.098	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1.96%#			
19) Nitrobenzene-d5	6.457	82	2331	0.102	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.08%#			
45) 2-Fluorobiphenyl	8.386	172	5000	0.107	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.28%#			
78) 2,4,6-Tribromophenol	9.769	330	639	0.087	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1.74%#			
95) 4-Terphenyl-d14	11.998	244	6849	0.111	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4.44%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.410	74	1470	0.134	ug/ml#	57
3) Pyridine	1.534	79	1726M1	0.093	ug/ml	
5) Aniline	5.275	93	2786	0.104	ug/ml	92
6) 2-Chlorophenol	5.422	128	2010	0.112	ug/ml	94
8) Phenol	5.369	94	2248	0.100	ug/ml#	82
9) Bis(2-chloroethyl)ether	5.446	93	1884	0.106	ug/ml	93
10) 1,3-Dichlorobenzene	5.628	146	2147	0.107	ug/ml#	77
11) 1,4-Dichlorobenzene	5.745	146	2554	0.127	ug/ml#	84
12) 1,2-Dichlorobenzene	5.940	146	1888	0.098	ug/ml#	68
13) Benzyl alcohol	5.998	79	1808	0.104	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.187	45	2911	0.112	ug/ml#	57

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.193	108	2005	0.128	ug/ml#	82
16) Hexachloroethane	6.357	117	961	0.109	ug/ml#	36
17) n-Nitrosodi-n-propylamine	6.357	70	1569	0.103	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.398	108	1799	0.104	ug/ml#	86
20) Nitrobenzene	6.481	77	2416	0.108	ug/ml#	85
21) Isophorone	6.787	82	4079	0.104	ug/ml#	89
22) 2-Nitrophenol	6.851	139	986	0.111	ug/ml#	70
23) 2,4-Dimethylphenol	6.987	107	1893	0.103	ug/ml#	83
24) Bis(2-chloroethoxy)met...	7.081	93	2562	0.108	ug/ml#	91
25) 2,4-Dichlorophenol	7.128	162	1685	0.099	ug/ml#	84
26) 1,2,4-Trichlorobenzene	7.204	180	2440	0.123	ug/ml	93
35) Naphthalene	7.263	128	6312	0.119	ug/ml#	83
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.375	65	905	0.110	ug/ml	94
38) Hexachlorobutadiene	7.445	225	1779	0.131	ug/ml	94
39) p-Chloro-m-cresol	7.922	107	1526	0.089	ug/ml#	80
40) 2-Methylnaphthalene	7.992	142	4009	0.111	ug/ml#	92
41) 1-Methylnaphthalene	8.087	115	1872	0.127	ug/ml#	70
42) Hexachlorocyclopentadiene	8.175	237	1452	0.103	ug/ml#	84
43) 2,4,6-Trichlorophenol	8.304	196	1343	0.093	ug/ml#	86
44) 2,4,5-Trichlorophenol	8.334	196	1362	0.088	ug/ml#	80
46) 2-Chloronaphthalene	8.469	162	4640	0.123	ug/ml	99
47) 2-Nitroaniline	8.592	138	1333	0.119	ug/ml#	85
48) 1,4-Dinitrobenzene	8.734	168	541M3	0.088	ug/ml	
49) 1,3-Dinitrobenzene	8.804	168	641	0.092	ug/ml#	1
50) Dimethyl phthalate	8.810	163	5434	0.107	ug/ml#	90
51) Acenaphthylene	8.863	152	6552	0.111	ug/ml	96
52) 2,6-Dinitrotoluene	8.845	165	1261	0.122	ug/ml#	84
53) 1,2-Dinitrobenzene	8.886	168	323M3	0.077	ug/ml	
63) 3-Nitroaniline	8.998	138	1003	0.102	ug/ml#	1
64) Acenaphthene	9.039	154	3620	0.110	ug/ml#	77
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.210	168	7311	0.134	ug/ml#	84
67) 2,4-Dinitrotoluene	9.233	165	1139	0.081	ug/ml#	62
68) 4-Nitrophenol	9.204	65	1035	0.092	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.310	232	932	0.072	ug/ml#	80
70) 2,3,4,6-Tetrachlorophenol	9.351	232	982	0.081	ug/ml#	64
71) Diethyl phthalate	9.504	149	4790	0.098	ug/ml#	87
72) Fluorene	9.533	166	5163	0.117	ug/ml#	95
73) 4-Chlorophenyl phenyl ...	9.569	204	2959	0.130	ug/ml#	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.575	138	932	0.092	ug/ml#	80
75)	4,6-Dinitro-o-cresol	9.616	198	275M2	0.035	ug/ml	
76)	NDPA/DPA	9.686	169	4377	0.117	ug/ml	96
77)	Azobenzene	9.716	77	5184	0.110	ug/ml	93
79)	4-Bromophenyl phenyl e...	10.033	248	1598	0.114	ug/ml#	85
80)	Hexachlorobenzene	10.069	284	1942	0.125	ug/ml#	85
81)	Pentachlorophenol	10.263	266	628	0.063	ug/ml#	19
88)	Phenanthrene	10.445	178	8776	0.128	ug/ml	96
89)	Anthracene	10.492	178	8020	0.115	ug/ml	97
90)	Carbazole	10.669	167	7192	0.109	ug/ml	96
91)	Di-n-butylphthalate	11.086	149	8066	0.099	ug/ml#	93
92)	Fluoranthene	11.580	202	9183	0.112	ug/ml#	92
93)	Benzidine	11.751	184	3025	0.059	ug/ml#	68
94)	Pyrene	11.786	202	7953M3	0.093	ug/ml	
96)	Butyl benzyl phthalate	12.516	149	3346	0.096	ug/ml	88
104)	Benzo(a)anthracene	12.963	228	9282	0.117	ug/ml	96
105)	3,3'-Dichlorobenzidine	12.986	252	2857	0.101	ug/ml#	82
106)	Chrysene	12.998	228	10226	0.134	ug/ml	96
107)	Bis(2-ethylhexyl)phtha...	13.139	149	4739	0.097	ug/ml#	93
108)	Di-n-octylphthalate	13.798	149	6825	0.085	ug/ml#	76
109)	Benzo(b)fluoranthene	14.021	252	7806	0.101	ug/ml	99
110)	Benzo(k)fluoranthene	14.045	252	7144	0.105	ug/ml	94
111)	Benzo(a)pyrene	14.321	252	6916	0.105	ug/ml	95
113)	Indeno(1,2,3-cd)pyrene	15.304	276	5677M3	0.090	ug/mL	
114)	Dibenzo(a,h)anthracene	15.333	278	5866	0.095	ug/ml	95
115)	Benzo(ghi)perylene	15.515	276	6087	0.102	ug/ml#	90

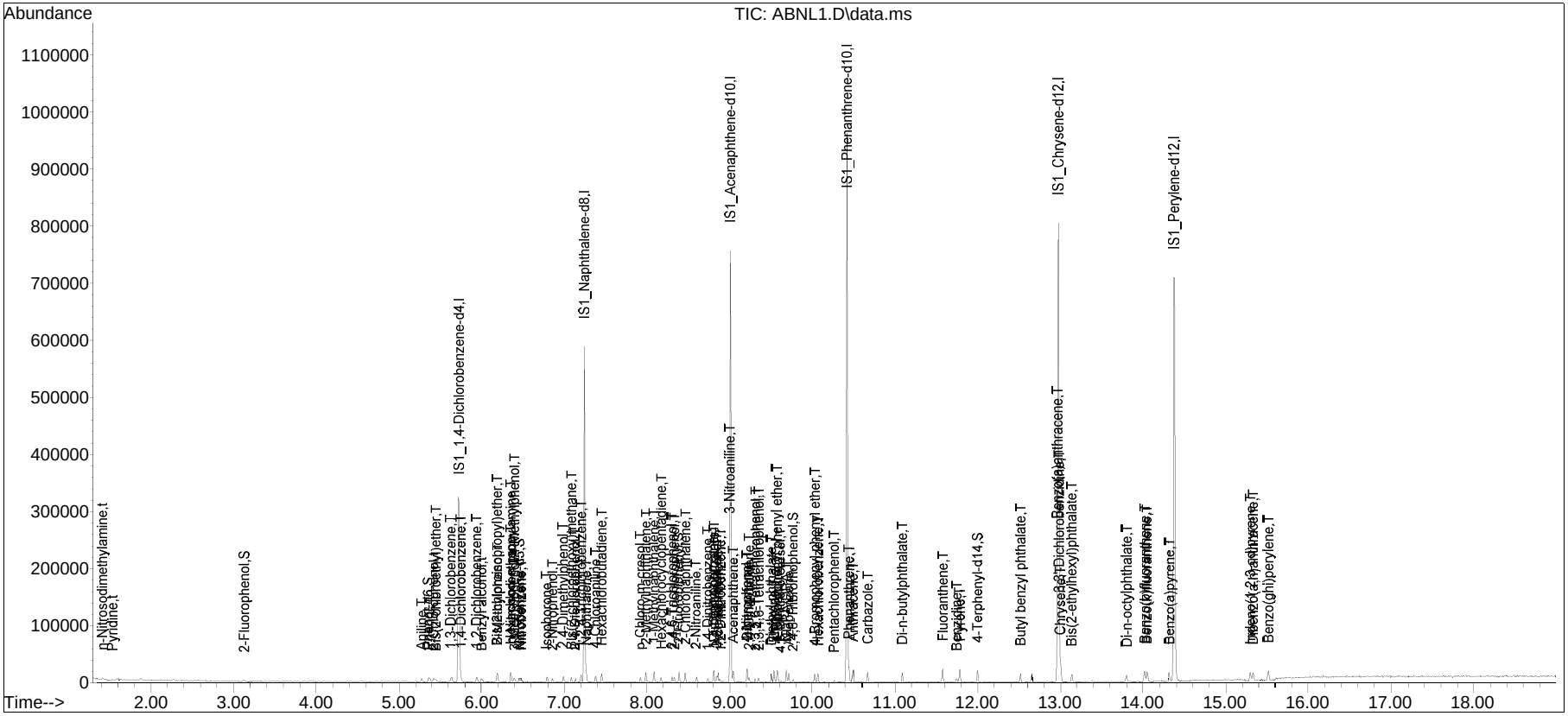
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNL1.D
Acq On : 19 Apr 2024 12:04 am
Operator : SV106:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1911693,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 19 13:23:20 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

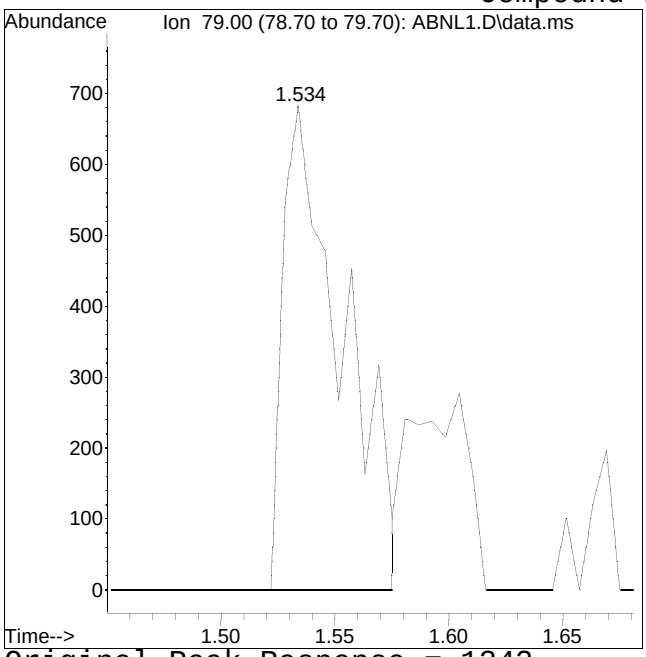
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

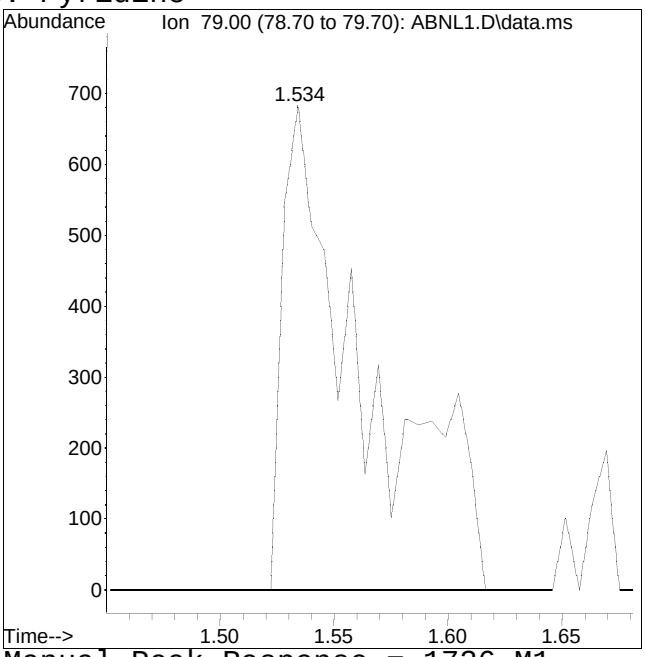


Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #3: Pyridine



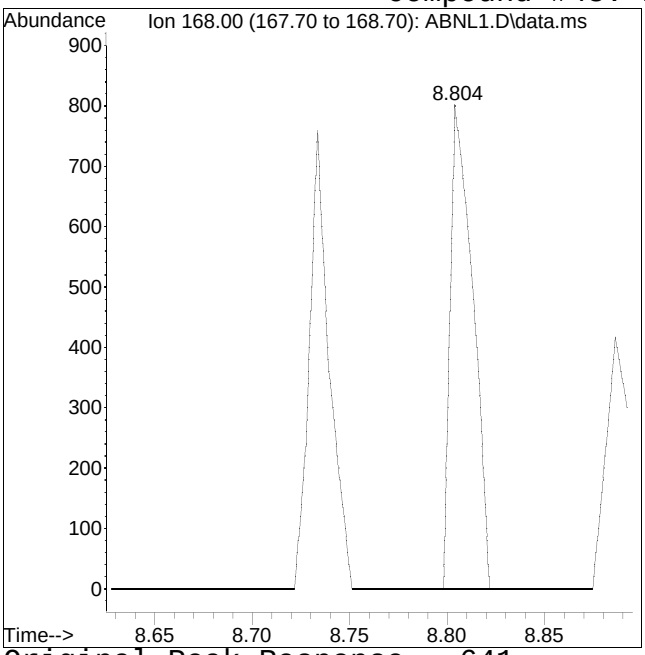


Original Peak Response = 1242 Manual Peak Response = 1726 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

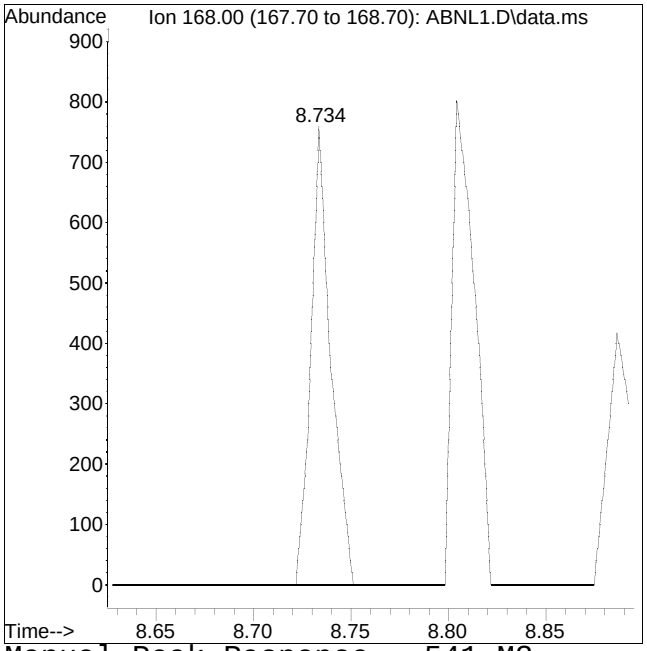
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 641



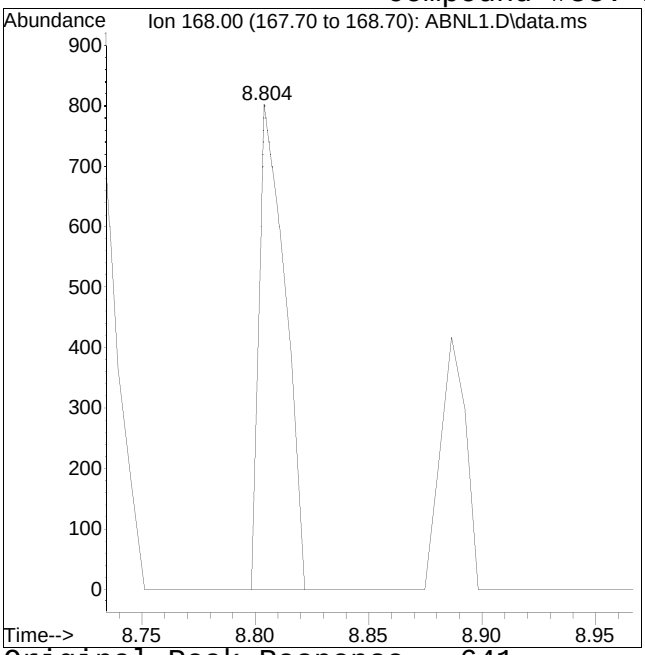
Manual Peak Response = 541 M3

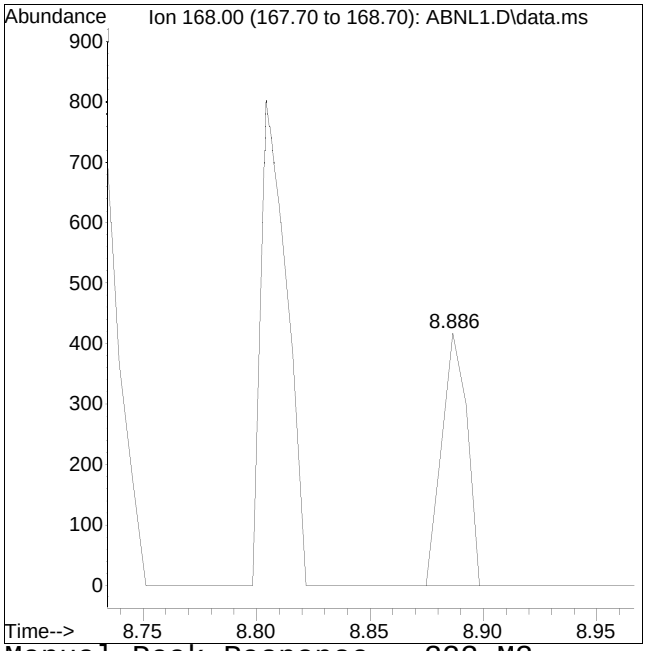
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #53: 1,2-Dinitrobenzene





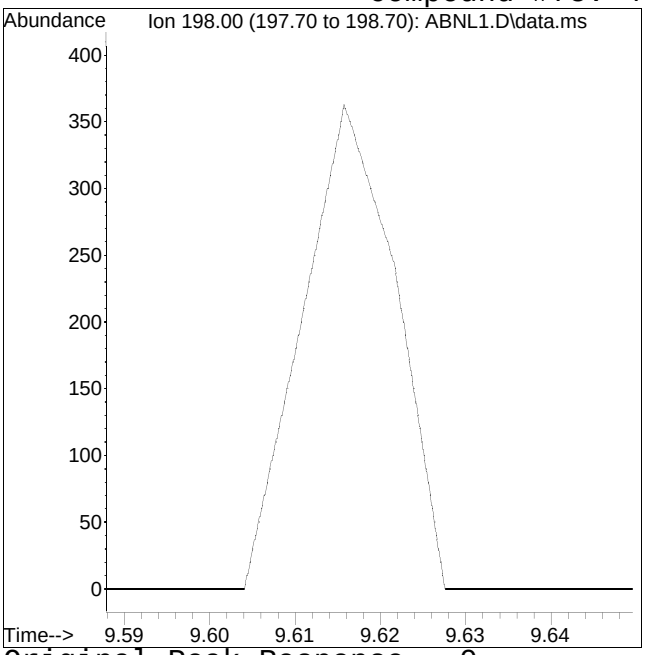
Original Peak Response = 641 Manual Peak Response = 323 M3

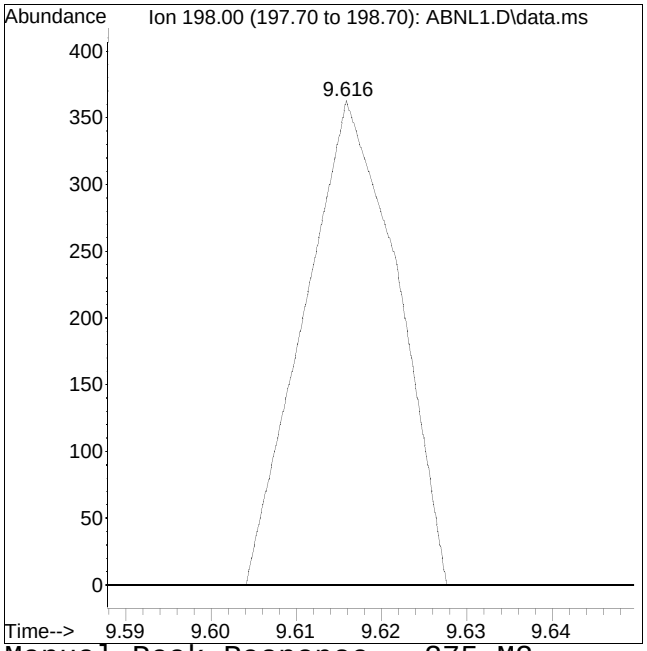
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #75: 4,6-Dinitro-o-cresol



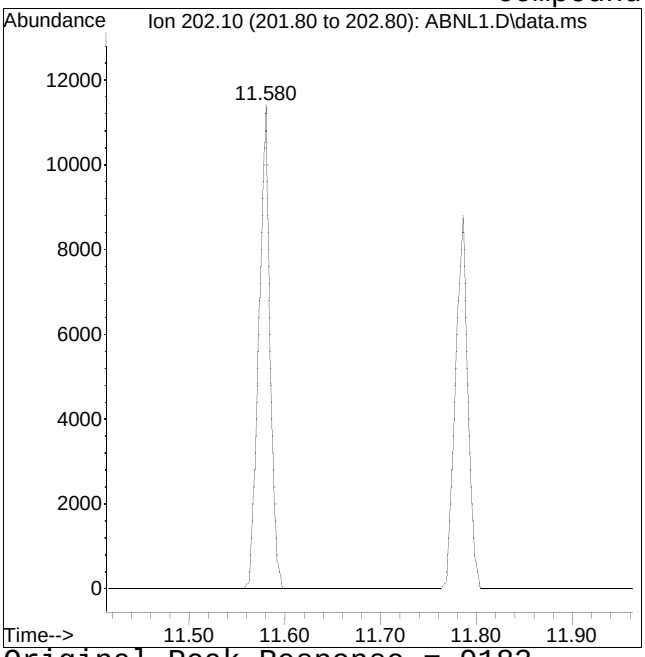


Original Peak Response = 0 Manual Peak Response = 275 M2
M2 = Peak not found by automatic integration algorithm.

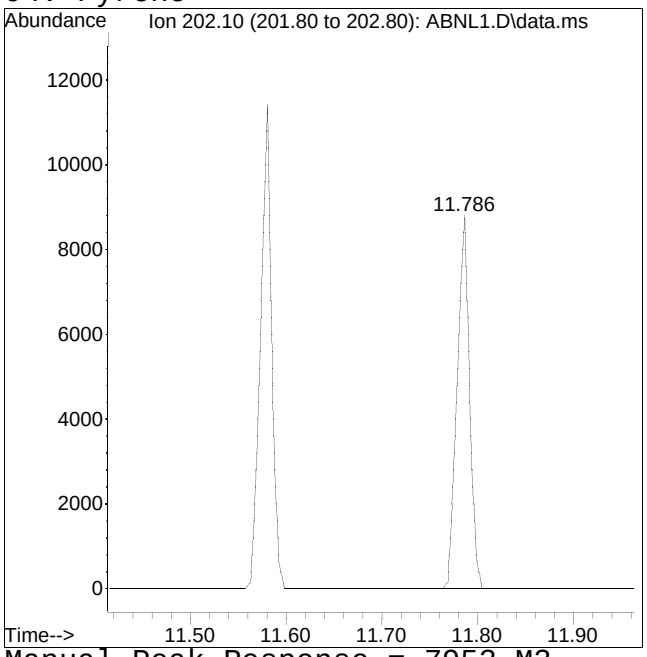
Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #94: Pyrene



Original Peak Response = 9183



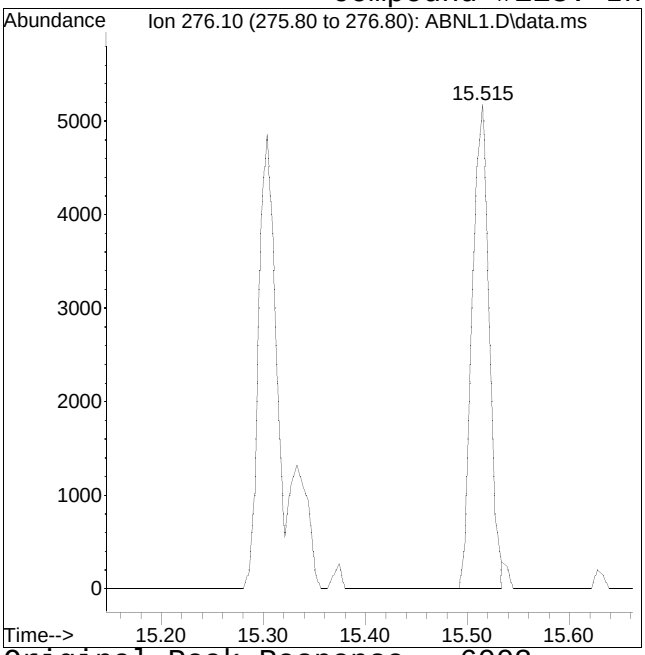
Manual Peak Response = 7953 M3

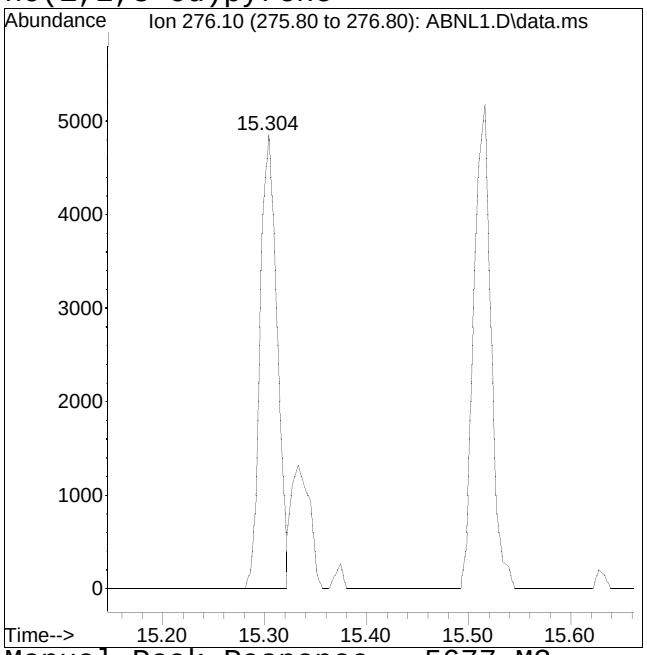
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240418RVTicaQMethod : FS240418SV106.m
Data File : ABNL1.D Operator : SV106:cmm
Date Inj'd : 4/19/2024 12:04 am Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1069Quant Date : 4/19/2024 1:19 pm

Compound #113: Indeno(1,2,3-cd)pyrene





Original Peak Response = 6003 Manual Peak Response = 5677 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L9.D
Acq On : 19 Apr 2024 12:27 am
Operator : SV106:cmm
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1911693,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 19 13:48:08 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	58211	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 95.54%			
54) IS2_Naphthalene-d8	7.239	136	209175	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 95.05%			
82) IS2_Acenaphthene-d10	9.004	164	132916	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 94.44%			
97) IS2_Phenanthrene-d10	10.421	188	296396	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 95.47%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.028	105	798309	57.567	ug/ml	95
29) Acetophenone	6.286	105	1473683	57.324	ug/ml#	84
30) m-Toluidine	6.398	106	1358608	56.905	ug/ml	96
31) 2-Chloroaniline	6.816	127	1225901	56.869	ug/ml	98
55) a-Terpineol	7.345	59	943662	58.290	ug/ml#	81
56) 3-Chloroaniline	7.351	65	522207	55.583	ug/ml#	68
57) 2,6-Dichlorophenol	7.375	162	861474	59.410	ug/ml#	87
58) 1-chloro-2-nitrobenzene	7.639	111	457987	57.861	ug/ml#	1
59) Caprolactam	7.728	55	500922	59.094	ug/ml#	73
60) 1,2,4,5-Tetrachloroben...	8.169	216	1236388	56.488	ug/ml	98
61) Biphenyl	8.475	154	2444961	54.966	ug/ml	99
83) Dichloran	10.145	206	405910	65.894	ug/ml#	76
84) Pentachloronitrobenzene	10.286	237	442335	62.094	ug/ml#	79
98) Diphenamid	11.351	167	1908407	58.334	ug/ml	83

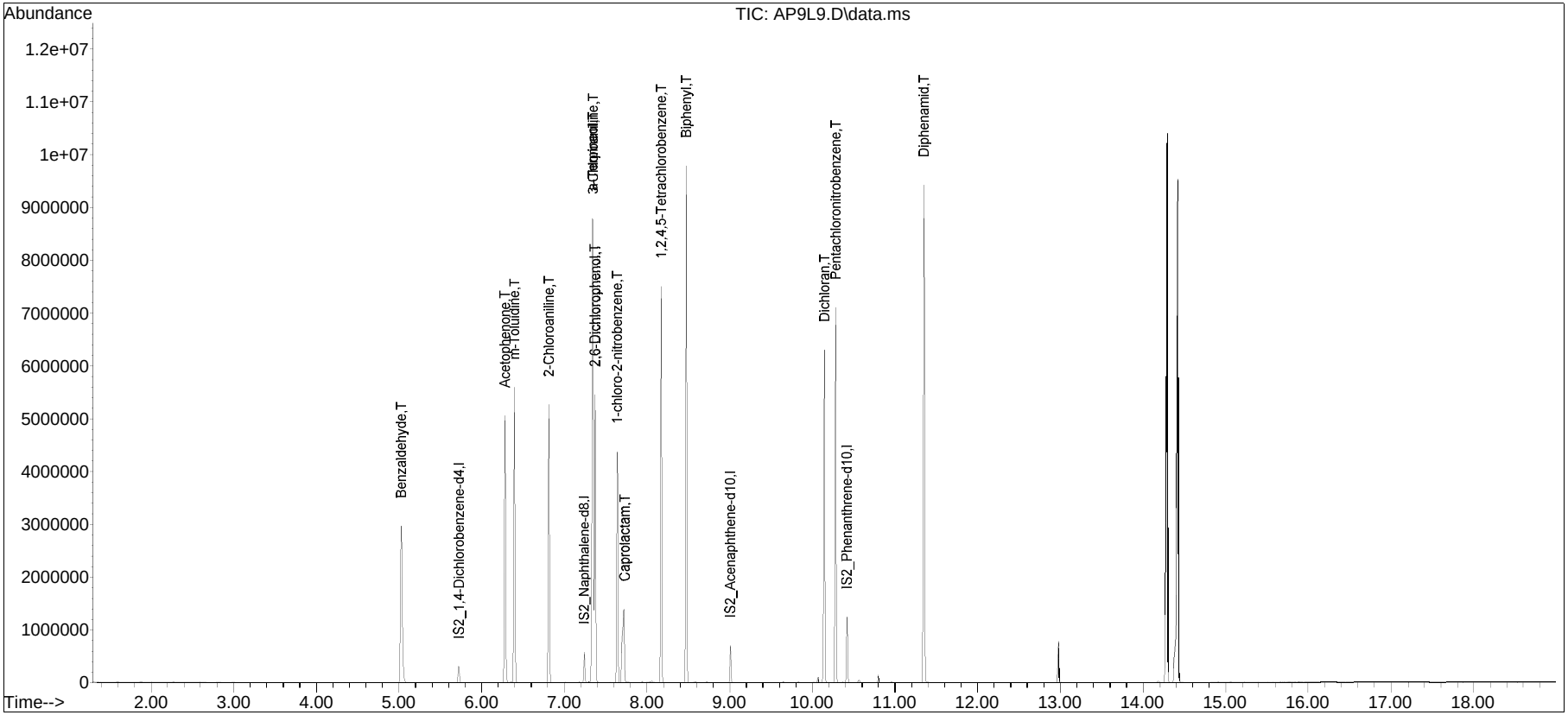
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L9.D
Acq On : 19 Apr 2024 12:27 am
Operator : SV106:cmm
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1911693,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 19 13:48:08 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L9.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 12:27 am	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 10700	Quant Date	: 4/19/2024 1:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L8.D
Acq On : 19 Apr 2024 12:51 am
Operator : SV106:cmm
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1911693,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 19 13:47:42 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	62719	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 102.94%			
54) IS2_Naphthalene-d8	7.239	136	224534	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 102.03%			
82) IS2_Acenaphthene-d10	9.004	164	148016	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 105.17%			
97) IS2_Phenanthrene-d10	10.421	188	330387	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 106.42%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.028	105	413868	27.700	ug/ml	96
29) Acetophenone	6.286	105	767164	27.697	ug/ml#	84
30) m-Toluidine	6.398	106	707760	27.514	ug/ml	96
31) 2-Chloroaniline	6.816	127	634295	27.310	ug/ml	98
55) a-Terpineol	7.339	59	491190	28.265	ug/ml#	82
56) 3-Chloroaniline	7.351	65	269738	26.747	ug/ml#	69
57) 2,6-Dichlorophenol	7.375	162	453217	29.117	ug/ml#	86
58) 1-chloro-2-nitrobenzene	7.639	111	239730	28.215	ug/ml#	1
59) Caprolactam	7.710	55	269607	29.630	ug/ml#	74
60) 1,2,4,5-Tetrachloroben...	8.169	216	642037	27.327	ug/ml	98
61) Biphenyl	8.475	154	1296001	27.143	ug/ml	99
83) Dichloran	10.139	206	208331	30.369	ug/ml#	77
84) Pentachloronitrobenzene	10.280	237	238185	30.025	ug/ml#	78
98) Diphenamid	11.351	167	1031789	28.294	ug/ml	82

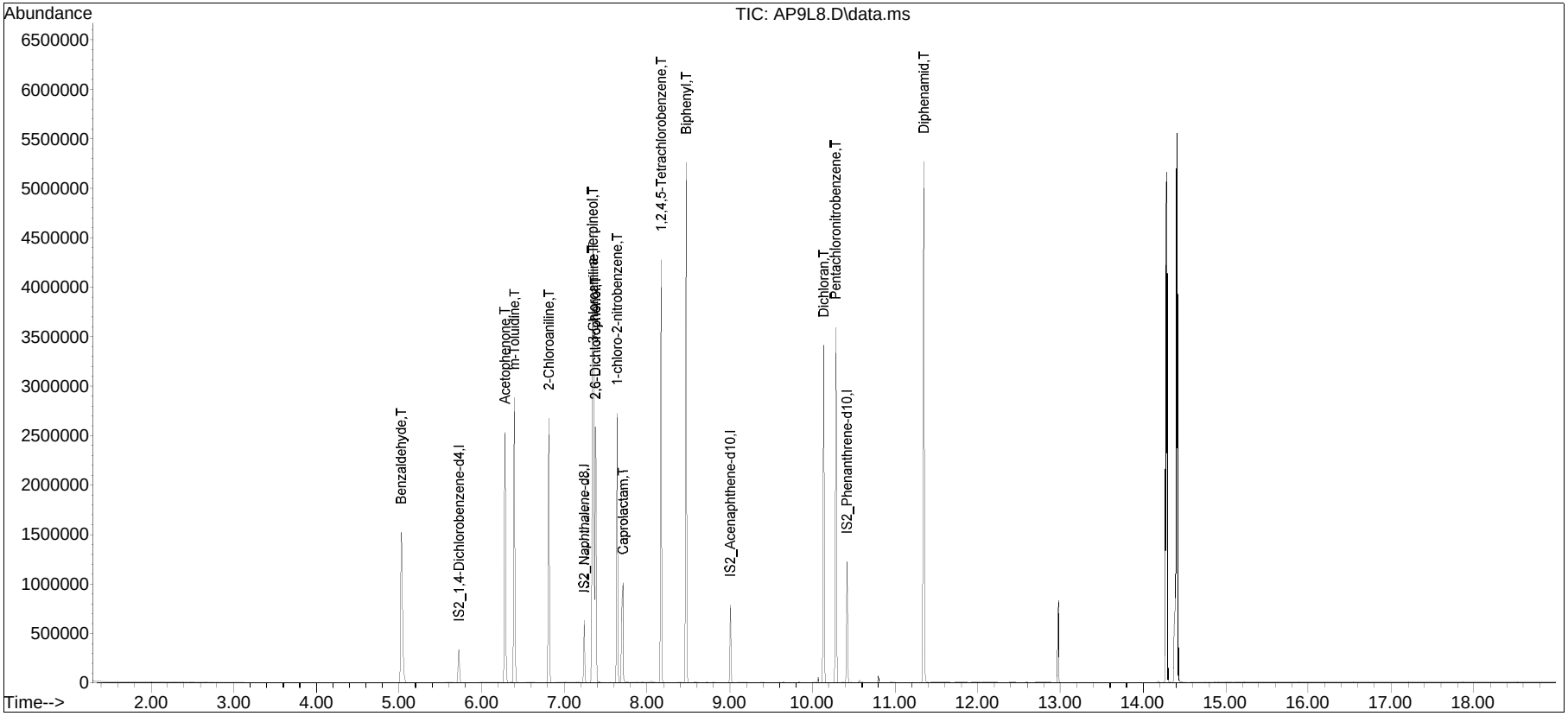
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L8.D
Acq On : 19 Apr 2024 12:51 am
Operator : SV106:cmm
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1911693,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 19 13:47:42 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L8.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 12:51 am	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 4/19/2024 1:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L7.D
Acq On : 19 Apr 2024 1:16 am
Operator : SV106:cmm
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1911693,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 19 13:47:14 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	59667	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 97.93%			
54) IS2_Naphthalene-d8	7.239	136	221841	4.000	ug/ml	0.00
Standard Area 1 = 220065			Recovery = 100.81%			
82) IS2_Acenaphthene-d10	9.004	164	140692	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 99.97%			
97) IS2_Phenanthrene-d10	10.421	188	311224	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.24%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.034	105	163828	11.526	ug/ml	96
29) Acetophenone	6.286	105	301459	11.440	ug/ml#	84
30) m-Toluidine	6.398	106	275847	11.272	ug/ml	94
31) 2-Chloroaniline	6.816	127	245376	11.105	ug/ml	98
55) a-Terpineol	7.339	59	186733	10.876	ug/ml#	80
56) 3-Chloroaniline	7.345	65	106267	10.665	ug/ml#	67
57) 2,6-Dichlorophenol	7.369	162	170890	11.112	ug/ml#	87
58) 1-chloro-2-nitrobenzene	7.639	111	89920	10.712	ug/ml#	1
59) Caprolactam	7.692	55	98701	10.979	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.169	216	247304	10.654	ug/ml	98
61) Biphenyl	8.475	154	492588	10.442	ug/ml	98
83) Dichloran	10.139	206	74885	11.485	ug/ml#	76
84) Pentachloronitrobenzene	10.280	237	85987	11.404	ug/ml#	80
98) Diphenamid	11.345	167	376050	10.947	ug/ml	82

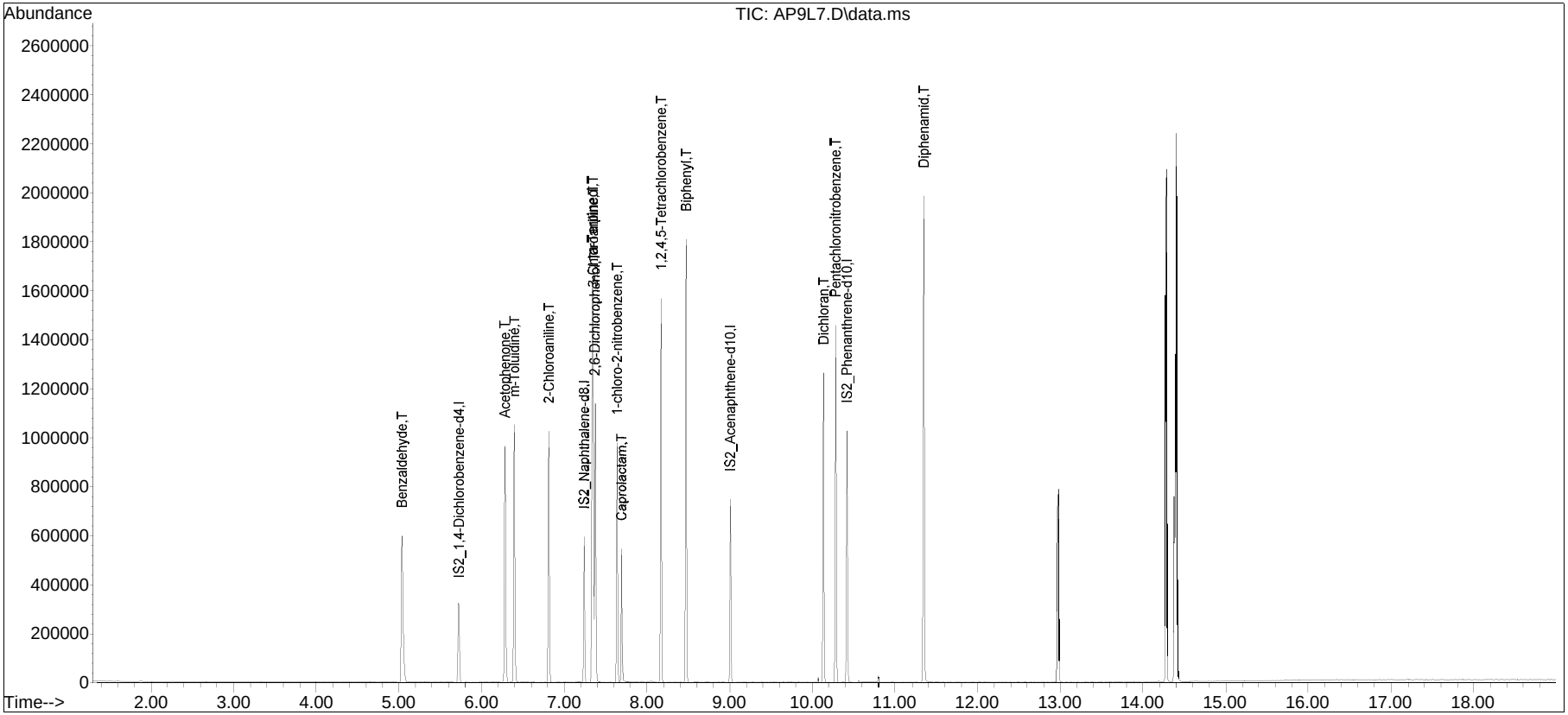
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L7.D
Acq On : 19 Apr 2024 1:16 am
Operator : SV106:cmm
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1911693,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 19 13:47:14 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L7.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 1:16 am	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 4/19/2024 1:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L6.D
Acq On : 19 Apr 2024 1:39 am
Operator : SV106:cmm
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1911693,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 19 13:46:53 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60927	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.239	136	220065	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.004	164	140738	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	10.421	188	310465	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.039	105	72572	5.000	ug/ml	93
29) Acetophenone	6.286	105	134537	5.000	ug/ml#	85
30) m-Toluidine	6.398	106	124944	5.000	ug/ml	95
31) 2-Chloroaniline	6.816	127	112812	5.000	ug/ml	98
55) a-Terpineol	7.333	59	85160	5.000	ug/ml#	79
56) 3-Chloroaniline	7.345	65	49421	5.000	ug/ml#	66
57) 2,6-Dichlorophenol	7.369	162	76277	5.000	ug/ml#	84
58) 1-chloro-2-nitrobenzene	7.639	111	41637	5.000	ug/ml#	1
59) Caprolactam	7.686	55	44590	5.000	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.169	216	115135	5.000	ug/ml	98
61) Biphenyl	8.475	154	233984	5.000	ug/ml	99
83) Dichloran	10.139	206	32613	5.000	ug/ml#	75
84) Pentachloronitrobenzene	10.280	237	37714	5.000	ug/ml#	80
98) Diphenamid	11.345	167	171340	5.000	ug/ml	82

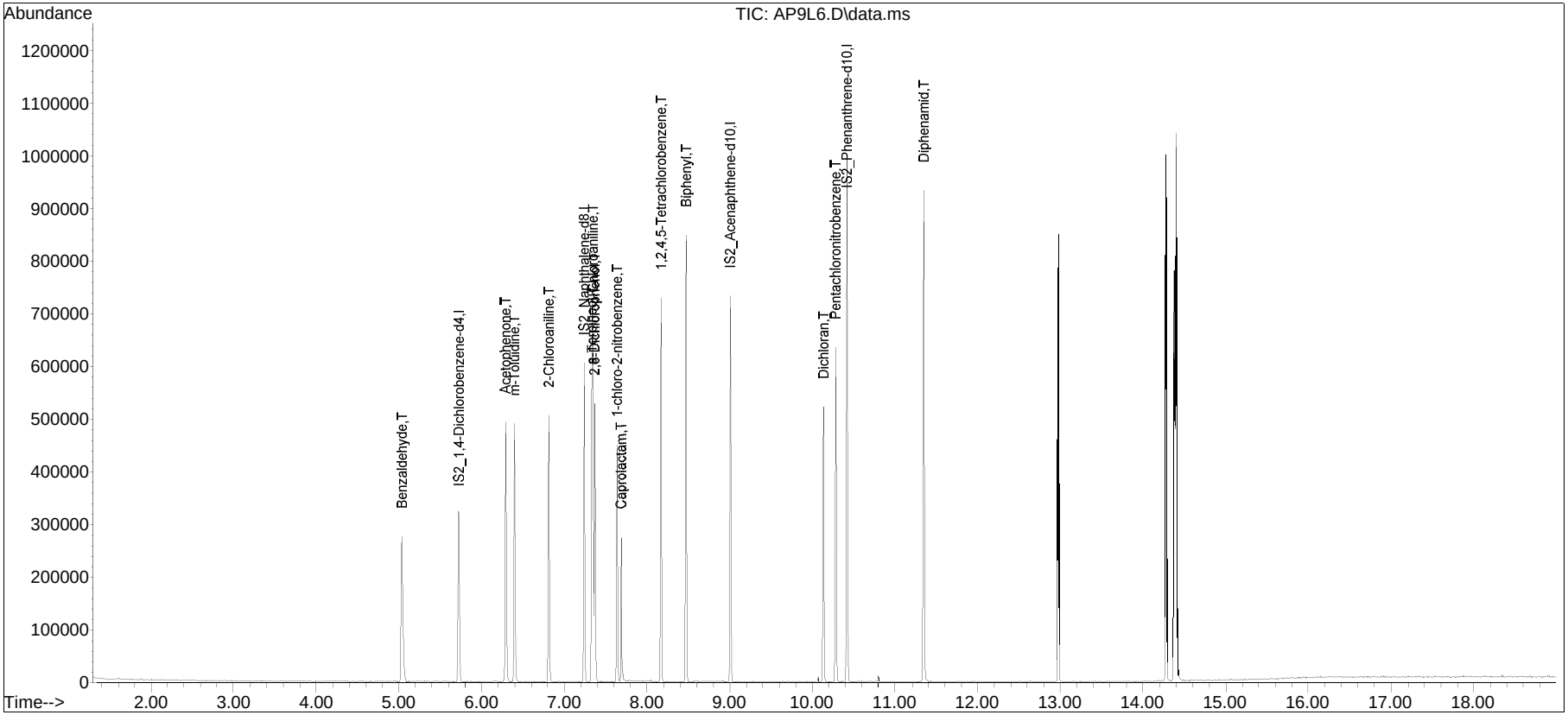
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L6.D
Acq On : 19 Apr 2024 1:39 am
Operator : SV106:cmm
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1911693,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 19 13:46:53 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L6.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 1:39 am	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 4/19/2024 1:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L5.D
Acq On : 19 Apr 2024 2:03 am
Operator : SV106:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1911693,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 19 13:46:31 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	61482	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery =	100.91%		
54) IS2_Naphthalene-d8	7.239	136	215263	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery =	97.82%		
82) IS2_Acenaphthene-d10	9.004	164	143710	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery =	102.11%		
97) IS2_Phenanthrene-d10	10.422	188	314521	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery =	101.31%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.040	105	37918	2.589	ug/ml	92
29) Acetophenone	6.287	105	70093	2.581	ug/ml#	85
30) m-Toluidine	6.398	106	65167	2.584	ug/ml	94
31) 2-Chloroaniline	6.816	127	58030	2.549	ug/ml	98
55) a-Terpineol	7.333	59	42191	2.532	ug/ml#	79
56) 3-Chloroaniline	7.345	65	25063	2.592	ug/ml#	68
57) 2,6-Dichlorophenol	7.369	162	38650	2.590	ug/ml#	89
58) 1-chloro-2-nitrobenzene	7.639	111	21765	2.672	ug/ml#	1
59) Caprolactam	7.686	55	22315	2.558	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.169	216	59819	2.656	ug/ml	97
61) Biphenyl	8.475	154	116509	2.545	ug/ml	97
83) Dichloran	10.139	206	16120	2.420	ug/ml#	73
84) Pentachloronitrobenzene	10.280	237	18197	2.363	ug/ml#	78
98) Diphenamid	11.345	167	83331	2.400	ug/ml	82

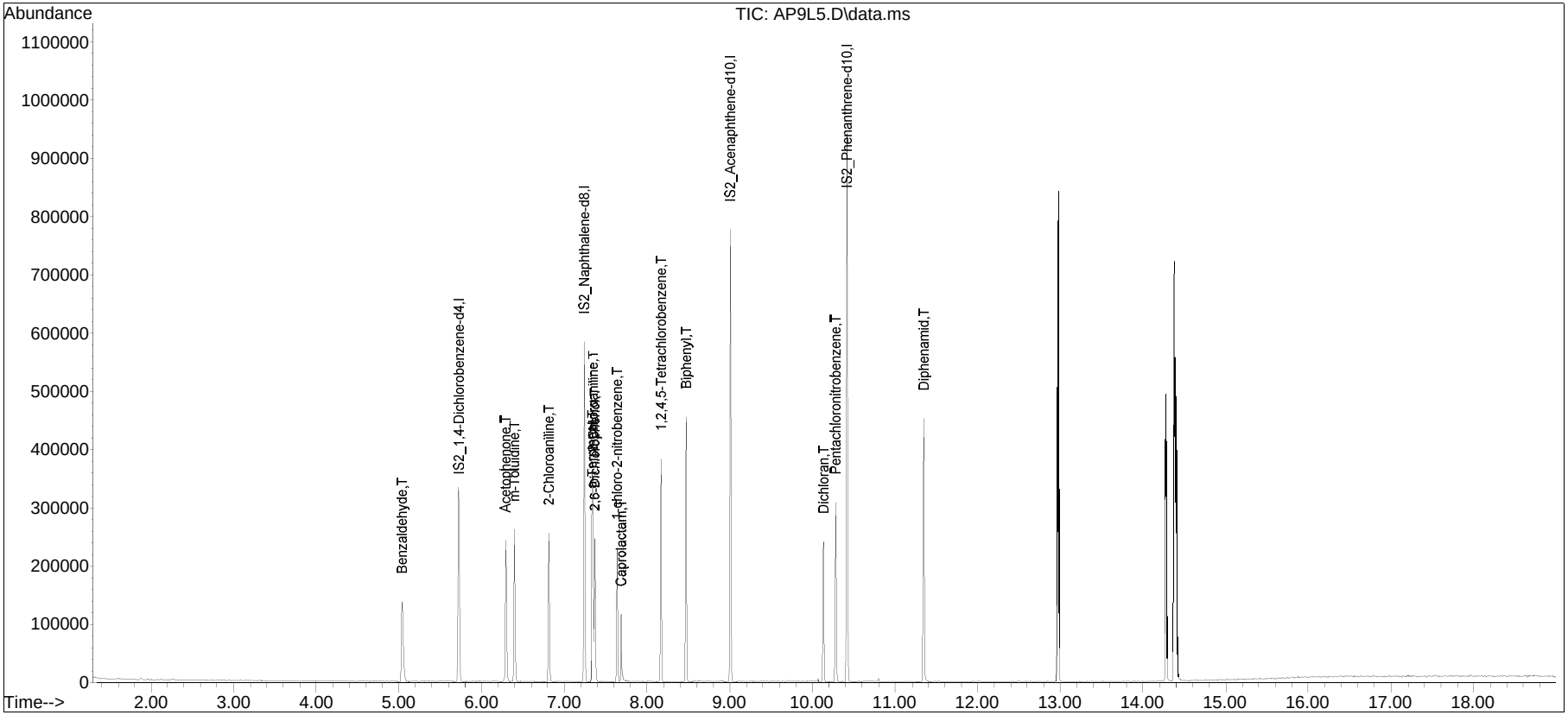
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L5.D
Acq On : 19 Apr 2024 2:03 am
Operator : SV106:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1911693,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 19 13:46:31 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L5.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:03 am	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 4/19/2024 1:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L4.D
Acq On : 19 Apr 2024 2:28 am
Operator : SV106:cmm
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1911693,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 19 13:46:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60660	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 99.56%			
54) IS2_Naphthalene-d8	7.239	136	223251	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 101.45%			
82) IS2_Acenaphthene-d10	9.004	164	147365	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 104.71%			
97) IS2_Phenanthrene-d10	10.422	188	330153	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 106.34%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.045	105	16145	1.117	ug/ml	98
29) Acetophenone	6.292	105	31098	1.161	ug/ml#	84
30) m-Toluidine	6.398	106	25188	1.012	ug/ml#	93
31) 2-Chloroaniline	6.816	127	23966	1.067	ug/ml	99
55) a-Terpineol	7.339	59	17984	1.041	ug/ml#	80
56) 3-Chloroaniline	7.345	65	9640	0.961	ug/ml	79
57) 2,6-Dichlorophenol	7.369	162	16092	1.040	ug/ml#	82
58) 1-chloro-2-nitrobenzene	7.639	111	9427	1.116	ug/ml#	1
59) Caprolactam	7.686	55	9828	1.086	ug/ml#	81
60) 1,2,4,5-Tetrachloroben...	8.169	216	27333	1.170	ug/ml	98
61) Biphenyl	8.475	154	53024	1.117	ug/ml	98
83) Dichloran	10.139	206	6182	0.905	ug/ml#	80
84) Pentachloronitrobenzene	10.280	237	7983	1.011	ug/ml#	77
98) Diphenamid	11.345	167	35887	0.985	ug/ml#	82

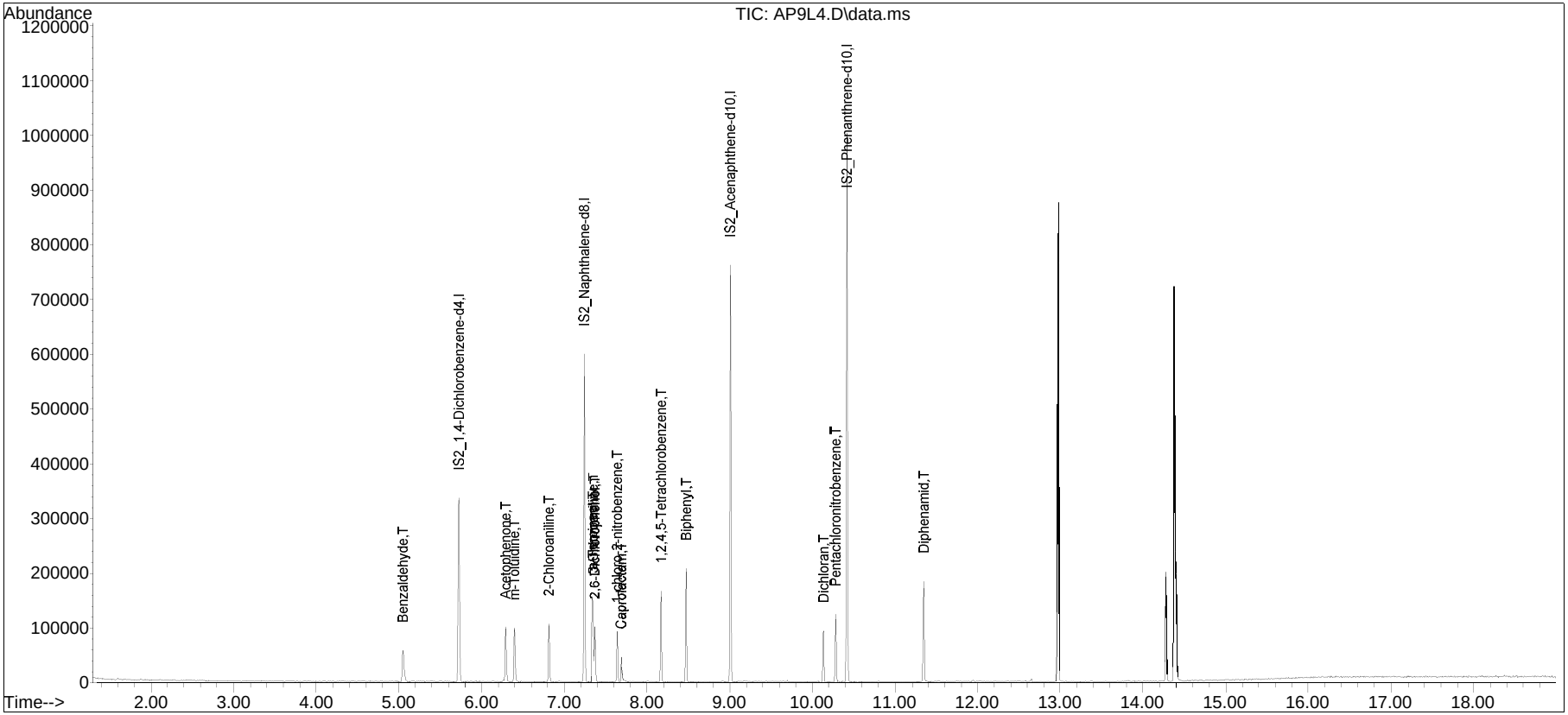
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L4.D
Acq On : 19 Apr 2024 2:28 am
Operator : SV106:cmm
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1911693,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 19 13:46:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L4.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:28 am	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 4/19/2024 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L3.D
Acq On : 19 Apr 2024 2:52 am
Operator : SV106:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1911693,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 19 13:45:46 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	57771	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 94.82%			
54) IS2_Naphthalene-d8	7.239	136	215705	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.02%			
82) IS2_Acenaphthene-d10	9.004	164	140733	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 100.00%			
97) IS2_Phenanthrene-d10	10.422	188	311297	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.27%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.051	105	8601	0.625	ug/ml	100
29) Acetophenone	6.292	105	14861	0.582	ug/ml#	84
30) m-Toluidine	6.404	106	12695	0.536	ug/ml	85
31) 2-Chloroaniline	6.816	127	12449	0.582	ug/ml	98
55) a-Terpineol	7.339	59	9064	0.543	ug/ml#	74
56) 3-Chloroaniline	7.351	65	5101	0.527	ug/ml#	73
57) 2,6-Dichlorophenol	7.369	162	8279	0.554	ug/ml	92
58) 1-chloro-2-nitrobenzene	7.645	111	4693	0.575	ug/ml#	1
59) Caprolactam	7.692	55	4367	0.500	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.169	216	13001	0.576	ug/ml	97
61) Biphenyl	8.475	154	23264	0.507	ug/ml	92
83) Dichloran	10.139	206	2775	0.425	ug/ml#	78
84) Pentachloronitrobenzene	10.280	237	3751	0.497	ug/ml#	73
98) Diphenamid	11.345	167	17090	0.497	ug/ml	84

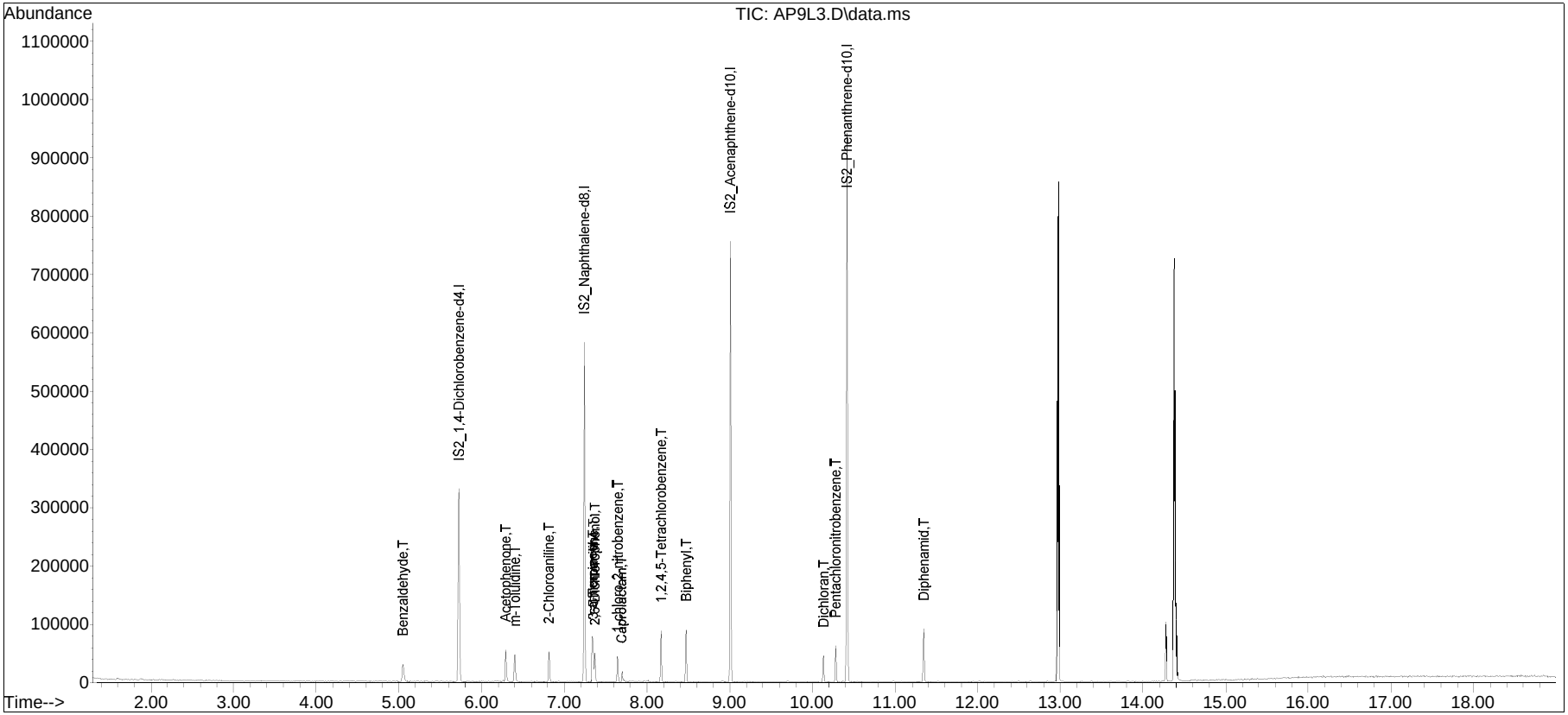
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L3.D
Acq On : 19 Apr 2024 2:52 am
Operator : SV106:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1911693,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 19 13:45:46 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L3.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 2:52 am	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 4/19/2024 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L2.D
Acq On : 19 Apr 2024 3:16 am
Operator : SV106:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1911693,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 19 13:44:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60445	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 99.21%			
54) IS2_Naphthalene-d8	7.239	136	215815	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.07%			
82) IS2_Acenaphthene-d10	9.004	164	137034	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 97.37%			
97) IS2_Phenanthrene-d10	10.422	188	309920	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 99.82%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.051	105	3703	0.257	ug/ml	96
29) Acetophenone	6.298	105	6488	0.243	ug/ml#	89
30) m-Toluidine	6.404	106	4725	0.191	ug/ml	94
31) 2-Chloroaniline	6.816	127	4811	0.215	ug/ml#	91
55) a-Terpineol	7.339	59	3968	0.238	ug/ml#	86
56) 3-Chloroaniline	7.351	65	1768	0.182	ug/ml	96
57) 2,6-Dichlorophenol	7.369	162	3017	0.202	ug/ml	89
58) 1-chloro-2-nitrobenzene	7.645	111	1941	0.238	ug/ml#	1
59) Caprolactam	7.704	55	1870	0.214	ug/ml#	84
60) 1,2,4,5-Tetrachloroben...	8.169	216	5342	0.237	ug/ml	99
61) Biphenyl	8.475	154	9755	0.213	ug/ml#	90
83) Dichloran	10.139	206	1387	0.218	ug/ml#	67
84) Pentachloronitrobenzene	10.280	237	1291	0.176	ug/ml	91
98) Diphenamid	11.345	167	6193	0.181	ug/ml	85

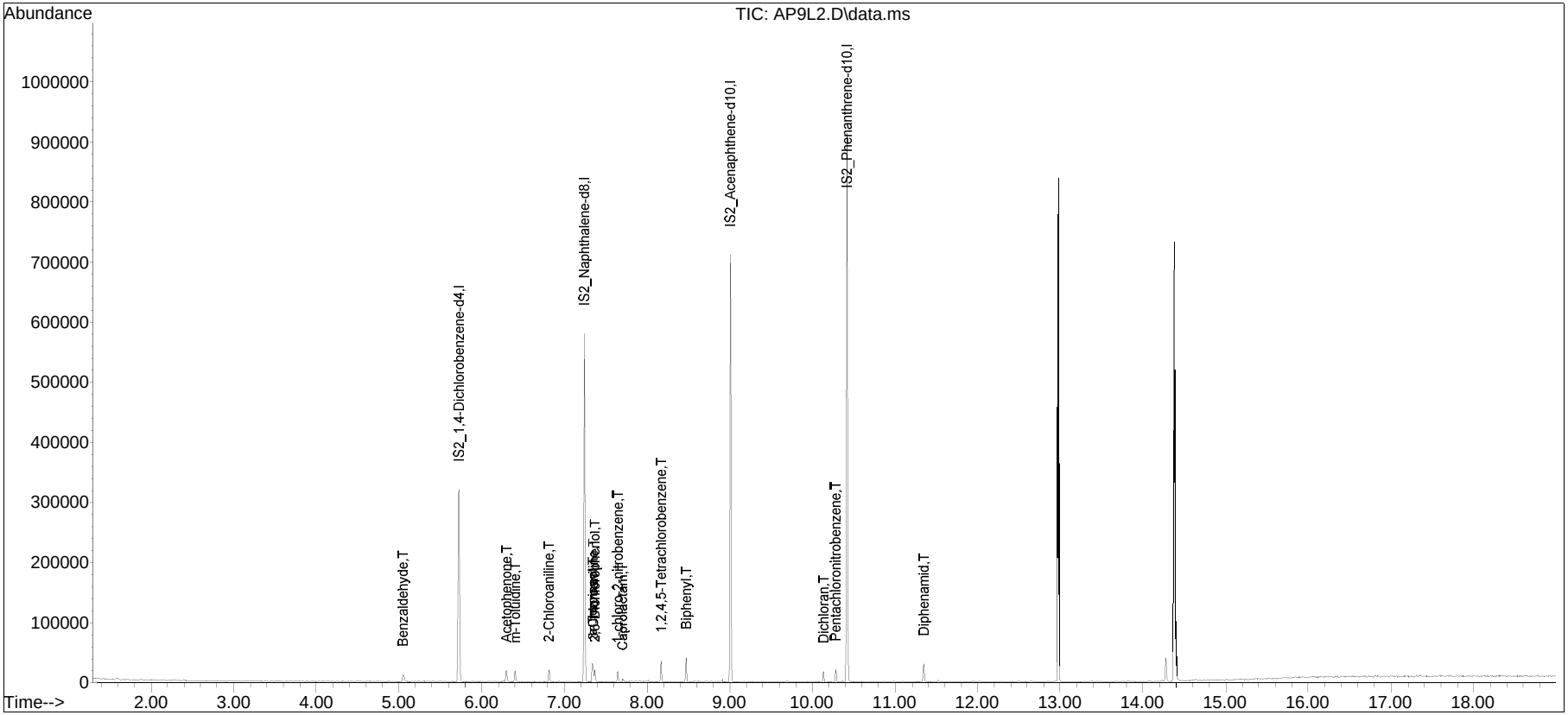
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L2.D
Acq On : 19 Apr 2024 3:16 am
Operator : SV106:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1911693,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 19 13:44:43 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L2.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 3:16 am	Instrument	: SV 106
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 4/19/2024 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L1.D
Acq On : 19 Apr 2024 3:41 am
Operator : SV106:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1911693,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 19 13:44:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	60089	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 98.62%			
54) IS2_Naphthalene-d8	7.239	136	216553	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 98.40%			
82) IS2_Acenaphthene-d10	9.004	164	141473	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 100.52%			
97) IS2_Phenanthrene-d10	10.422	188	312954	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 100.80%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.057	105	1783	0.125	ug/ml	88
29) Acetophenone	6.298	105	2777	0.105	ug/ml#	87
30) m-Toluidine	6.410	106	1988	0.081	ug/ml#	92
31) 2-Chloroaniline	6.822	127	2608	0.117	ug/ml#	86
55) a-Terpineol	7.339	59	1497	0.089	ug/ml#	63
56) 3-Chloroaniline	7.351	65	840	0.086	ug/ml	93
57) 2,6-Dichlorophenol	7.369	162	1610	0.107	ug/ml	94
58) 1-chloro-2-nitrobenzene	7.645	111	1088	0.133	ug/ml#	1
59) Caprolactam	7.710	55	990	0.113	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.169	216	2375	0.105	ug/ml	96
61) Biphenyl	8.475	154	5035	0.109	ug/ml	98
83) Dichloran	10.145	206	521	0.079	ug/ml#	47
84) Pentachloronitrobenzene	10.280	237	1011	0.133	ug/ml#	72
98) Diphenamid	11.345	167	3323	0.096	ug/ml#	76

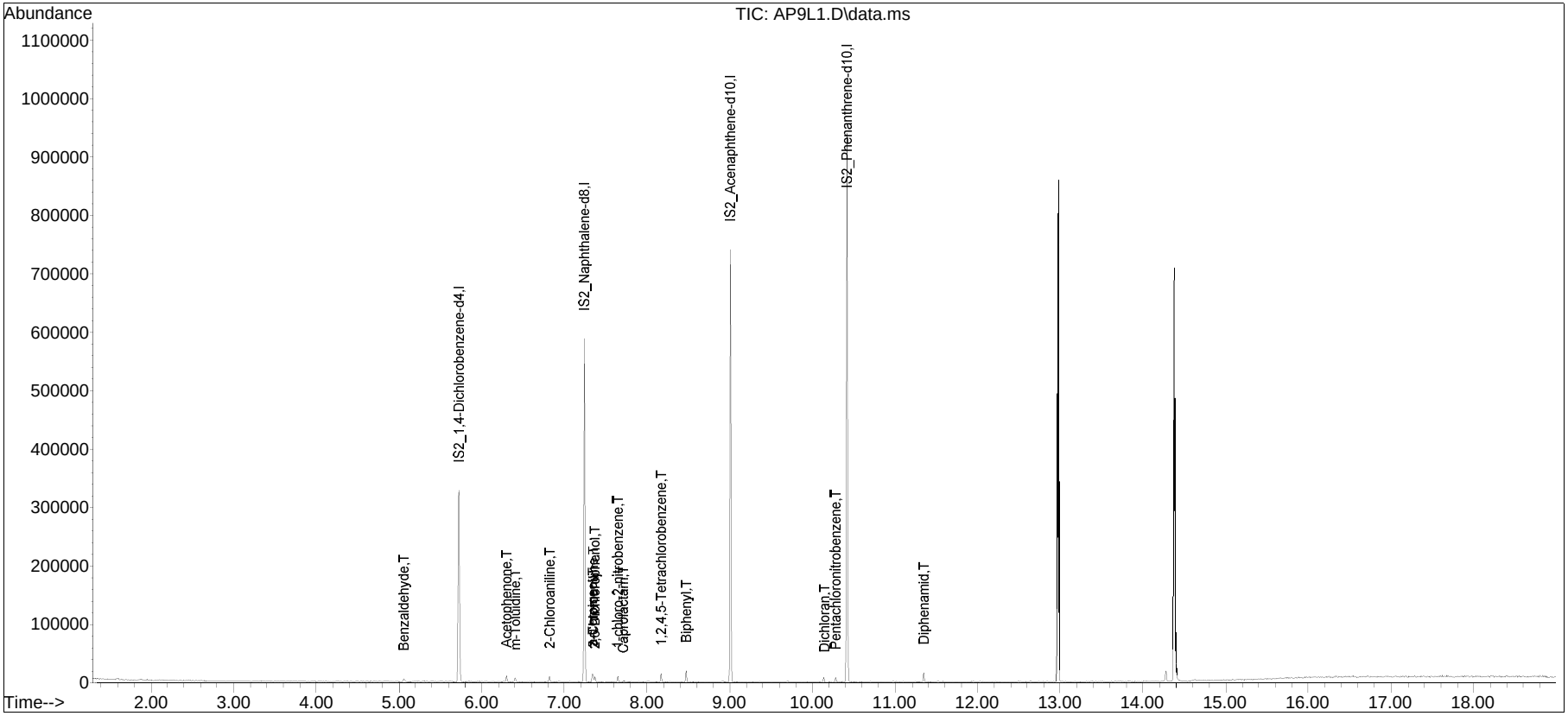
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9L1.D
Acq On : 19 Apr 2024 3:41 am
Operator : SV106:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1911693,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 19 13:44:11 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:18:39 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9L1.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 3:41 am	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.1 Lot# 1070	Quant Date	: 4/19/2024 1:20 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	85	0.00
2	t	n-Nitrosodimethylamine		0.789	0.866	-9.8	102	0.00
3	t	Pyridine		1.181	1.432	-21.3#	101	0.00
4	S	2-Fluorophenol		1.131	1.216	-7.5	99	-0.02
5	T	Aniline		1.890	2.039	-7.9	99	0.00
6	t	2-Chlorophenol		1.230	1.314	-6.8	95	0.00
7	S	Phenol-d6		1.461	1.634	-11.8	100	0.00
8	T	Phenol		1.557	1.735	-11.4	100	0.00
9	T	Bis(2-chloroethyl)ether		1.229	1.344	-9.4	98	0.00
10	T	1,3-Dichlorobenzene		1.423	1.577	-10.8	102	0.00
11	T	1,4-Dichlorobenzene		1.486	1.572	-5.8	101	0.00
12	T	1,2-Dichlorobenzene		1.357	1.469	-8.3	99	0.00
13	t	Benzyl alcohol		1.189	1.302	-9.5	97	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	1.923	-5.8	96	0.00
15	T	2-Methylphenol		1.108	1.188	-7.2	98	0.00
16	T	Hexachloroethane		0.606	0.620	-2.3	91	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	1.065	-3.0	91	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.301	-8.1	98	0.00
19	S	Nitrobenzene-d5		1.564	1.724	-10.2	98	0.00
20	T	Nitrobenzene		1.505	1.600	-6.3	93	0.00
21	T	Isophorone		2.670	2.886	-8.1	95	0.00
22	T	2-Nitrophenol		0.622	0.640	-2.9	94	0.00
23	T	2,4-Dimethylphenol		1.261	1.304	-3.4	92	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.740	-3.9	95	0.00
25	T	2,4-Dichlorophenol		1.149	1.218	-6.0	93	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.498	-6.7	98	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	85	0.00
35	T	Naphthalene		1.066	1.101	-3.3	95	0.00
36	T	Benzoic Acid	*	5.000	4.789	4.2	91	0.00
37	T	4-Chloroaniline		0.160	0.169	-5.6	95	0.00
38	T	Hexachlorobutadiene		0.275	0.281	-2.2	96	0.00
39	T	p-Chloro-m-cresol		0.327	0.358	-9.5	96	0.00
40	T	2-Methylnaphthalene		0.711	0.766	-7.7	97	0.00
41	T	1-Methylnaphthalene		0.297	0.318	-7.1	100	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.308	-12.8	101	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.297	-11.7	95	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.321	-11.1	95	0.00
45	S	2-Fluorobiphenyl		0.928	0.978	-5.4	96	0.00

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.767	-3.2	94	0.00
47	T	2-Nitroaniline		0.215	0.229	-6.5	94	0.00
48	T	1,4-Dinitrobenzene		0.114	0.124	-8.8	93	0.00
49	T	1,3-Dinitrobenzene		0.130	0.135	-3.8	89	0.00
50	T	Dimethyl phthalate		0.982	1.017	-3.6	92	0.00
51	T	Acenaphthylene		1.155	1.251	-8.3	97	0.00
52	T	2,6-Dinitrotoluene		0.197	0.205	-4.1	92	0.00
53	T	1,2-Dinitrobenzene		0.078	0.079	-1.3	87	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
63	T	3-Nitroaniline		0.293	0.329	-12.3	97	0.00
64	T	Acenaphthene		0.991	1.081	-9.1	96	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.702	6.0	88	0.00
66	T	Dibenzofuran		1.734	1.785	-2.9	95	0.00
67	T	2,4-Dinitrotoluene		0.398	0.425	-6.8	88	0.00
68	T	4-Nitrophenol		0.314	0.345	-9.9	89	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.416	-17.8	94	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.396	-14.5	95	0.00
71	T	Diethyl phthalate		1.443	1.548	-7.3	92	0.00
72	T	Fluorene		1.363	1.429	-4.8	94	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.764	-6.6	98	0.00
74	T	4-Nitroaniline		0.287	0.313	-9.1	90	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.245	-9.4	91	0.00
76	T	NDPA/DPA		1.122	1.206	-7.5	94	0.00
77	T	Azobenzene		1.430	1.530	-7.0	95	0.00
78	S	2,4,6-Tribromophenol		0.213	0.232	-8.9	92	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.446	-4.4	93	0.00
80	T	Hexachlorobenzene		0.494	0.522	-5.7	98	0.00
81	T	Pentachlorophenol		0.288	0.288	0.0	85	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
88	T	Phenanthrene		0.988	1.040	-5.3	94	0.00
89	T	Anthracene		0.977	1.055	-8.0	94	0.00
90	T	Carbazole		0.894	0.978	-9.4	92	0.00
91	T	Di-n-butylphthalate		1.089	1.212	-11.3	92	0.00
92	T	Fluoranthene		1.131	1.240	-9.6	94	0.00
93	T	Benzidine		0.648	0.751	-15.9	91	0.00
94	T	Pyrene		1.194	1.341	-12.3	97	0.00
95	S	4-Terphenyl-d14		0.861	0.950	-10.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.503	-8.6	90	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	81	0.00
104	T	Benzo(a)anthracene	1.294	1.432	-10.7	97	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.499	-11.9	94	0.00
106	T	Chrysene	1.277	1.332	-4.3	94	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	0.846	-10.3	93	0.00
108	T	Di-n-octylphthalate	1.257	1.392	-10.7	93	0.00
109	T	Benzo(b)fluoranthene	1.181	1.381	-16.9	96	0.00
110	T	Benzo(k)fluoranthene	1.154	1.306	-13.2	103	0.00
111	T	Benzo(a)pyrene	1.058	1.265	-19.6	103	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	85	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.065	-8.3	101	0.00
114	T	Dibenzo(a,h)anthracene	0.935	1.064	-13.8	103	0.00
115	T	Benzo(ghi)perylene	0.923	1.041	-12.8	104	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.722	152	55403	4.000	ug/ml	0.00
Standard Area 1 = 64818			Recovery = 85.47%			
34) IS1_Naphthalene-d8	7.239	136	200130	4.000	ug/ml #	0.00
Standard Area 1 = 235233			Recovery = 85.08%			
62) IS1_Acenaphthene-d10	9.004	164	132834	4.000	ug/ml	0.00
Standard Area 1 = 162232			Recovery = 81.88%			
87) IS1_Phenanthrene-d10	10.421	188	280810	4.000	ug/ml	0.00
Standard Area 1 = 354854			Recovery = 79.13%			
103) IS1_Chrysene-d12	12.974	240	252444	4.000	ug/ml #	0.00
Standard Area 1 = 311680			Recovery = 80.99%			
112) IS1_Perylene-d12	14.380	264	277166	4.000	ug/ml	0.00
Standard Area 1 = 327460			Recovery = 84.64%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.110	112	84185	5.375	ug/ml	-0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 107.50%			
7) Phenol-d6	5.351	99	113147	5.592	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 111.84%#			
19) Nitrobenzene-d5	6.445	82	119426	5.512	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 220.48%#			
45) 2-Fluorobiphenyl	8.386	172	244541	5.270	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 210.80%#			
78) 2,4,6-Tribromophenol	9.769	330	38602	5.462	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 109.24%			
95) 4-Terphenyl-d14	11.998	244	333456	5.514	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 220.56%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.387	74	59999	5.492	ug/ml	83
3) Pyridine	1.416	79	99204	6.066	ug/ml#	64
5) Aniline	5.257	93	141221	5.395	ug/ml	100
6) 2-Chlorophenol	5.416	128	91025	5.345	ug/ml	98
8) Phenol	5.369	94	120165	5.574	ug/ml	92
9) Bis(2-chloroethyl)ether	5.434	93	93061	5.466	ug/ml#	80
10) 1,3-Dichlorobenzene	5.628	146	109198	5.541	ug/ml	98
11) 1,4-Dichlorobenzene	5.739	146	108839	5.287	ug/ml	95
12) 1,2-Dichlorobenzene	5.939	146	101739	5.414	ug/ml	94
13) Benzyl alcohol	5.986	79	90140	5.474	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.181	45	133201	5.293	ug/ml#	44

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.186	108	82305	5.365	ug/ml	97
16) Hexachloroethane	6.357	117	42924	5.114	ug/ml#	51
17) n-Nitrosodi-n-propylamine	6.339	70	73780	5.150	ug/ml#	90
18) 3-Methylphenol/4-Methy...	6.392	108	90130	5.405	ug/ml	95
20) Nitrobenzene	6.469	77	110784	5.315	ug/ml	94
21) Isophorone	6.775	82	199881	5.405	ug/ml#	92
22) 2-Nitrophenol	6.845	139	44317	5.141	ug/ml#	94
23) 2,4-Dimethylphenol	6.986	107	90318	5.172	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.075	93	120495	5.193	ug/ml#	96
25) 2,4-Dichlorophenol	7.128	162	84379	5.301	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.198	180	103737	5.336	ug/ml	98
35) Naphthalene	7.257	128	275355	5.161	ug/ml	99
36) Benzoic Acid	7.104	105	62908	4.789	ug/ml	94
37) 4-Chloroaniline	7.369	65	42321	5.290	ug/ml	93
38) Hexachlorobutadiene	7.445	225	70394	5.116	ug/ml	98
39) p-Chloro-m-cresol	7.922	107	89489	5.472	ug/ml	93
40) 2-Methylnaphthalene	7.992	142	191594	5.390	ug/ml#	93
41) 1-Methylnaphthalene	8.086	115	79496M3	5.349	ug/ml	
42) Hexachlorocyclopentadiene	8.175	237	77101	5.645	ug/ml	97
43) 2,4,6-Trichlorophenol	8.304	196	74268	5.589	ug/ml	96
44) 2,4,5-Trichlorophenol	8.327	196	80319	5.549	ug/ml	96
46) 2-Chloronaphthalene	8.469	162	191892	5.162	ug/ml	97
47) 2-Nitroaniline	8.592	138	57318	5.325	ug/ml	97
48) 1,4-Dinitrobenzene	8.733	168	31021	5.441	ug/ml	91
49) 1,3-Dinitrobenzene	8.804	168	33761	5.179	ug/ml#	1
50) Dimethyl phthalate	8.816	163	254529	5.181	ug/ml#	98
51) Acenaphthylene	8.863	152	312930	5.413	ug/ml	100
52) 2,6-Dinitrotoluene	8.845	165	51382	5.208	ug/ml#	80
53) 1,2-Dinitrobenzene	8.880	168	19683	5.073	ug/ml#	1
63) 3-Nitroaniline	8.998	138	54675	5.623	ug/ml#	87
64) Acenaphthene	9.039	154	179537	5.458	ug/ml	91
65) 2,4-Dinitrophenol	9.098	184	28601	4.702	ug/ml	92
66) Dibenzofuran	9.210	168	296371	5.146	ug/ml#	72
67) 2,4-Dinitrotoluene	9.227	165	70591	5.336	ug/ml	89
68) 4-Nitrophenol	9.204	65	57342	5.496	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.304	232	69156	5.906	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.345	232	65816	5.725	ug/ml	96
71) Diethyl phthalate	9.504	149	257035	5.363	ug/ml	99
72) Fluorene	9.539	166	237323	5.245	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.569	204	126901	5.331	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.580	138	51943	5.454	ug/ml#	72
75) 4,6-Dinitro-o-cresol	9.616	198	40670	5.457	ug/ml#	66
76) NDPA/DPA	9.686	169	200321	5.376	ug/ml	96
77) Azobenzene	9.716	77	253969	5.349	ug/ml	99
79) 4-Bromophenyl phenyl e...	10.033	248	74105	5.225	ug/ml#	89
80) Hexachlorobenzene	10.069	284	86665	5.278	ug/ml#	86
81) Pentachlorophenol	10.269	266	47842	5.000	ug/ml	93
88) Phenanthrene	10.445	178	364896	5.263	ug/ml	99
89) Anthracene	10.492	178	370163	5.397	ug/ml	98
90) Carbazole	10.669	167	343325	5.471	ug/ml	98
91) Di-n-butylphthalate	11.086	149	425422	5.563	ug/ml	99
92) Fluoranthene	11.580	202	435270	5.484	ug/ml#	90
93) Benzidine	11.751	184	263663	5.794	ug/ml#	95
94) Pyrene	11.786	202	470653	5.615	ug/ml	99
96) Butyl benzyl phthalate	12.515	149	176719	5.433	ug/ml	92
104) Benzo(a)anthracene	12.968	228	451936	5.534	ug/ml	99
105) 3,3'-Dichlorobenzidine	12.986	252	157325	5.593	ug/ml#	96
106) Chrysene	13.004	228	420177	5.213	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.145	149	267105	5.517	ug/ml#	92
108) Di-n-octylphthalate	13.798	149	439310	5.539	ug/ml#	75
109) Benzo(b)fluoranthene	14.027	252	435829	5.845	ug/ml#	93
110) Benzo(k)fluoranthene	14.051	252	412234	5.660	ug/ml#	92
111) Benzo(a)pyrene	14.321	252	399059	5.976	ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	15.309	276	368948	5.417	ug/mL#	88
114) Dibenzo(a,h)anthracene	15.339	278	368679	5.693	ug/ml#	88
115) Benzo(ghi)perylene	15.521	276	360504	5.639	ug/ml#	82

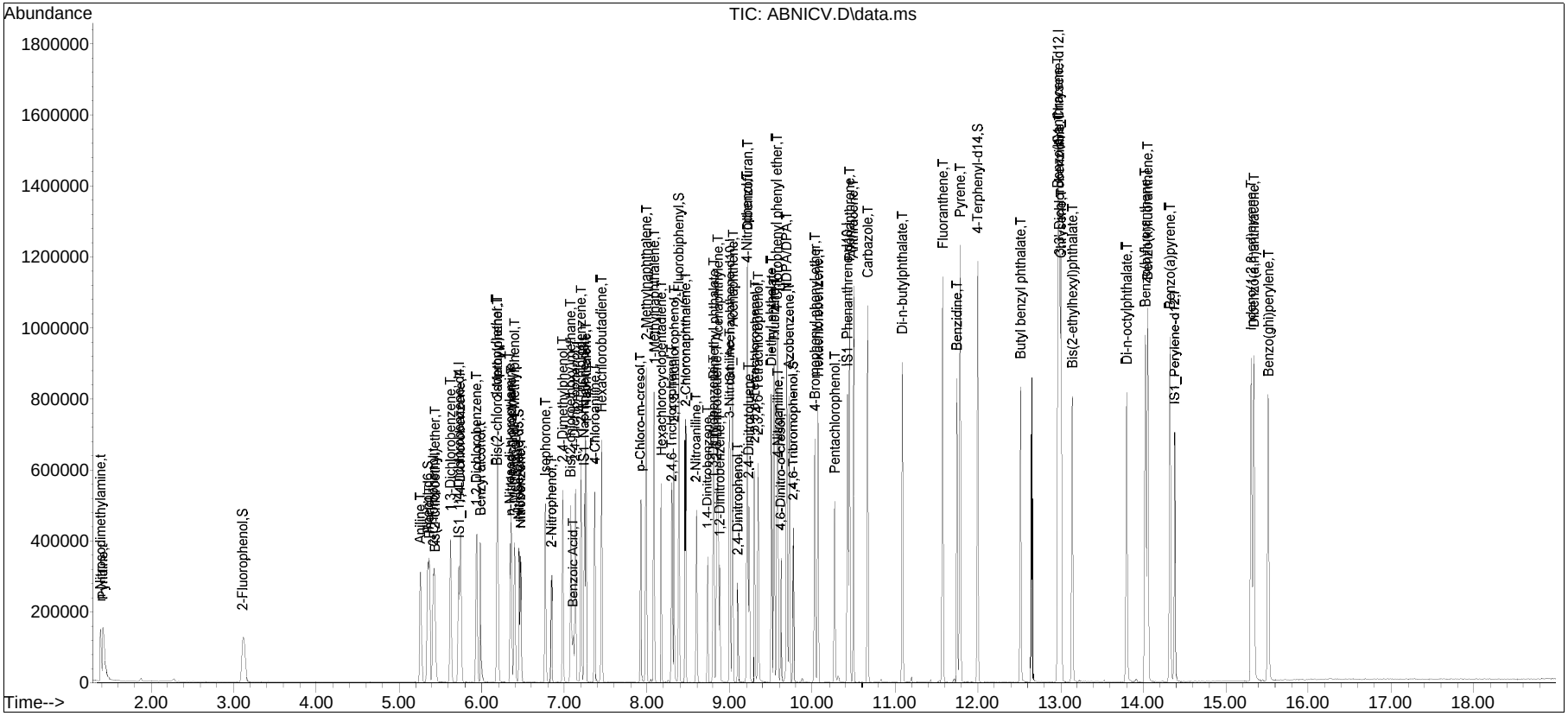
(#) = qualifier out of range (m) = manual integration (+) = signals summed

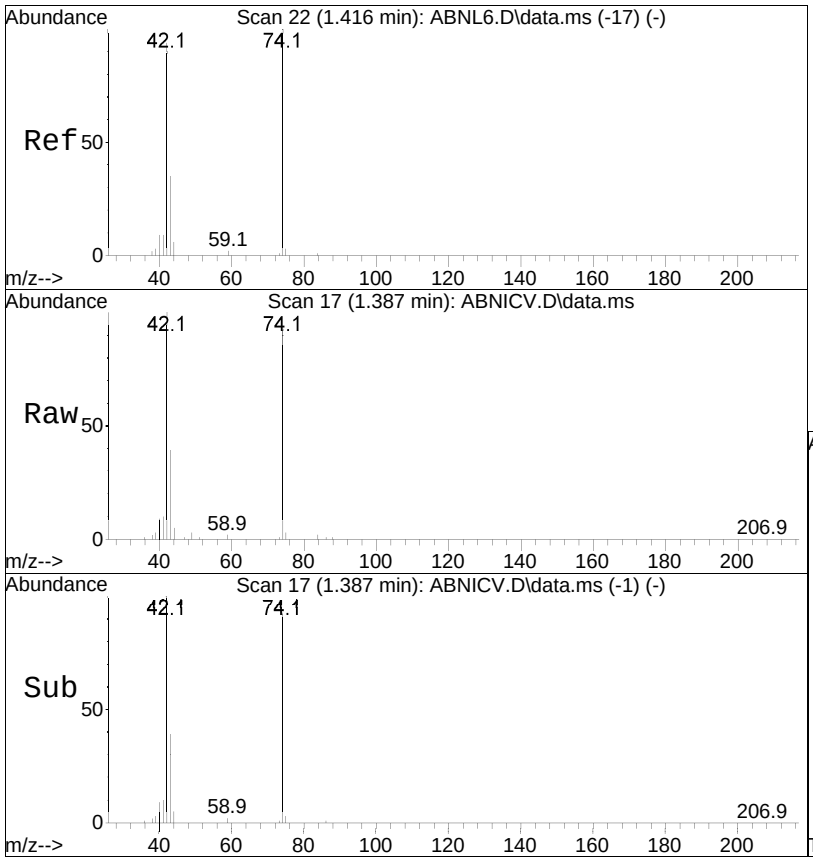
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ABNICV.D
Acq On : 19 Apr 2024 4:04 am
Operator : SV106:cmm
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1911693,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 19 13:36:13 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:34:34 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

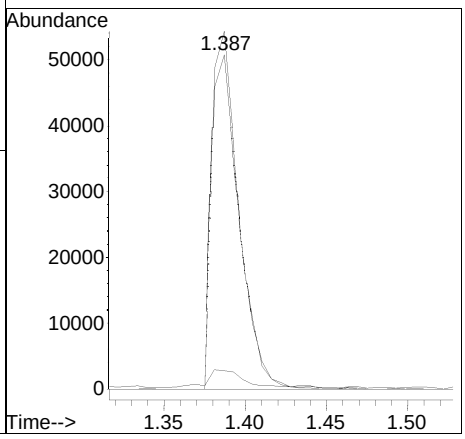


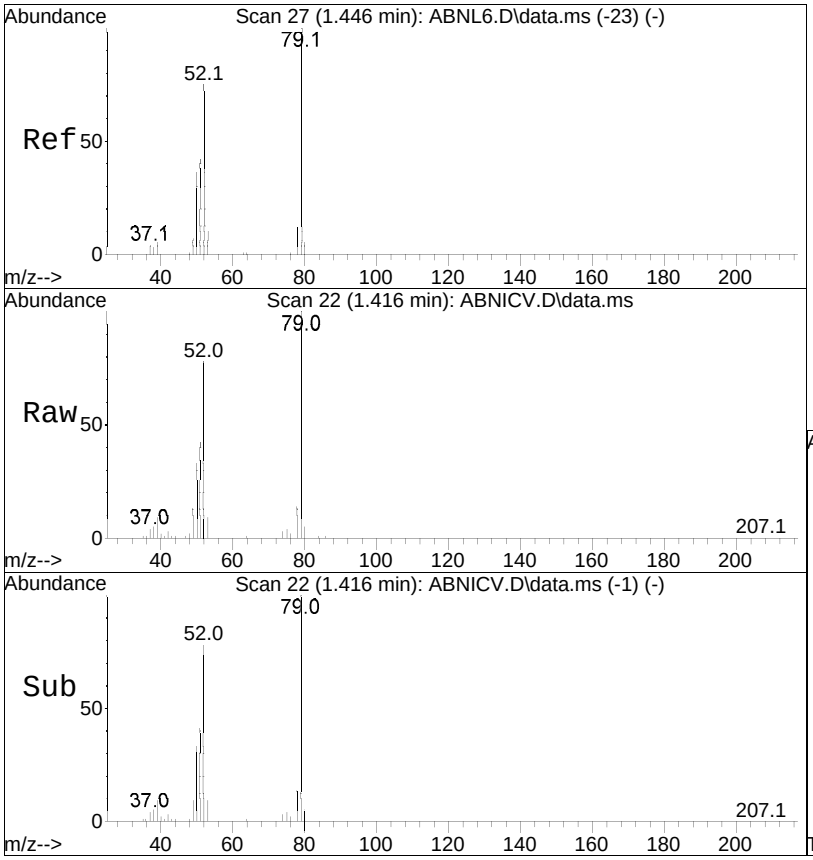


#2
n-Nitrosodimethylamine
Concen: 5.49 ug/ml
RT: 1.387 min Scan# 17
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 74 Resp: 59999

Ion	Ratio	Lower	Upper
74	100		
42	103.9	100.0	150.0
44	7.9	6.7	10.1

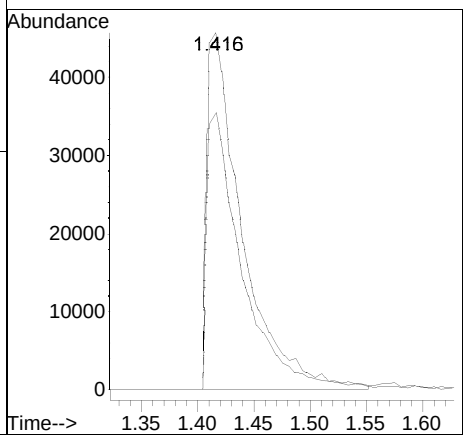


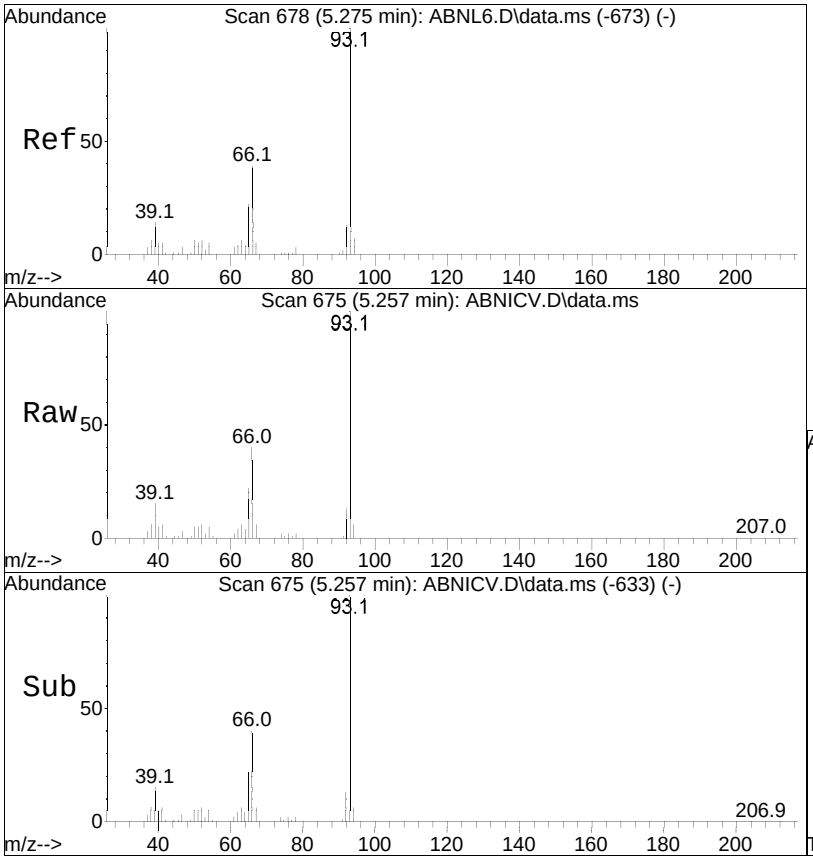


#3
Pyridine
Concen: 6.07 ug/ml
RT: 1.416 min Scan# 22
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 79 Resp: 99204

Ion	Ratio	Lower	Upper
79	100		
52	77.2	93.1	139.7#

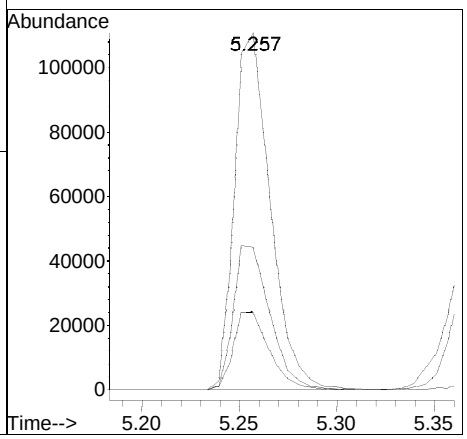


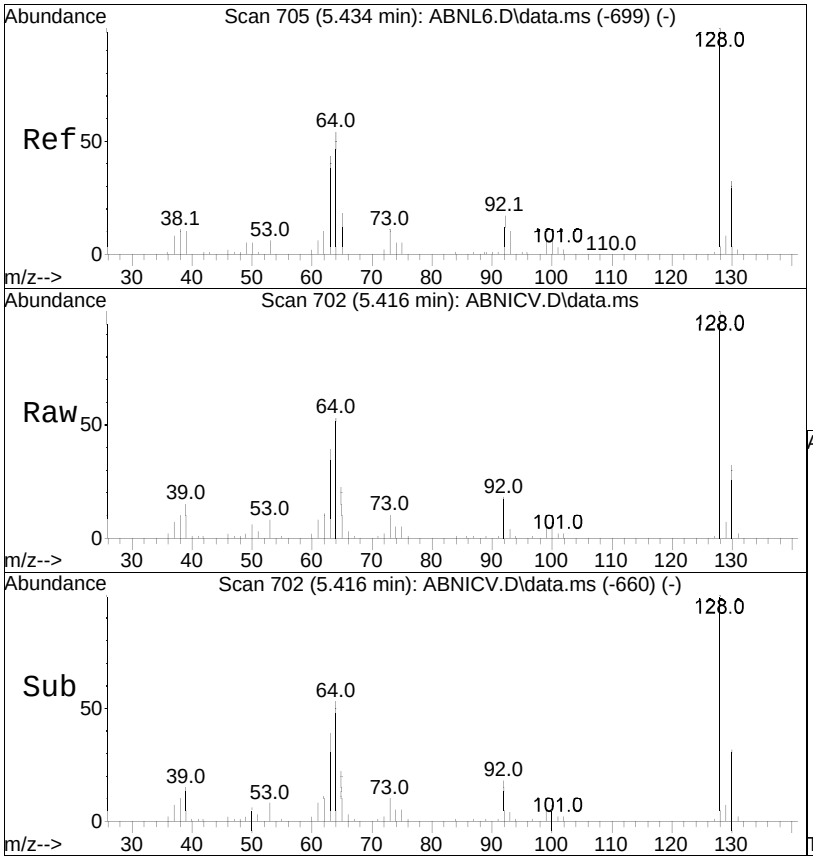


#5
Aniline
Concen: 5.39 ug/ml
RT: 5.257 min Scan# 675
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 141221

Ion	Ratio	Lower	Upper
93	100		
66	41.1	32.6	49.0
65	22.0	17.6	26.4

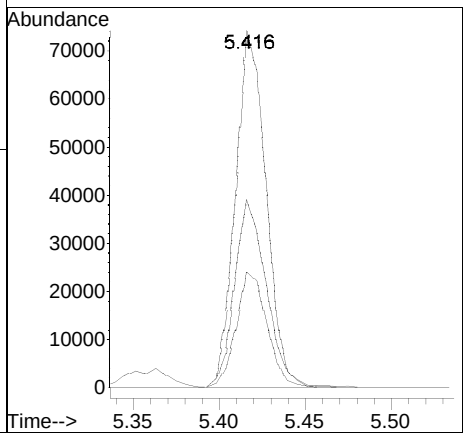


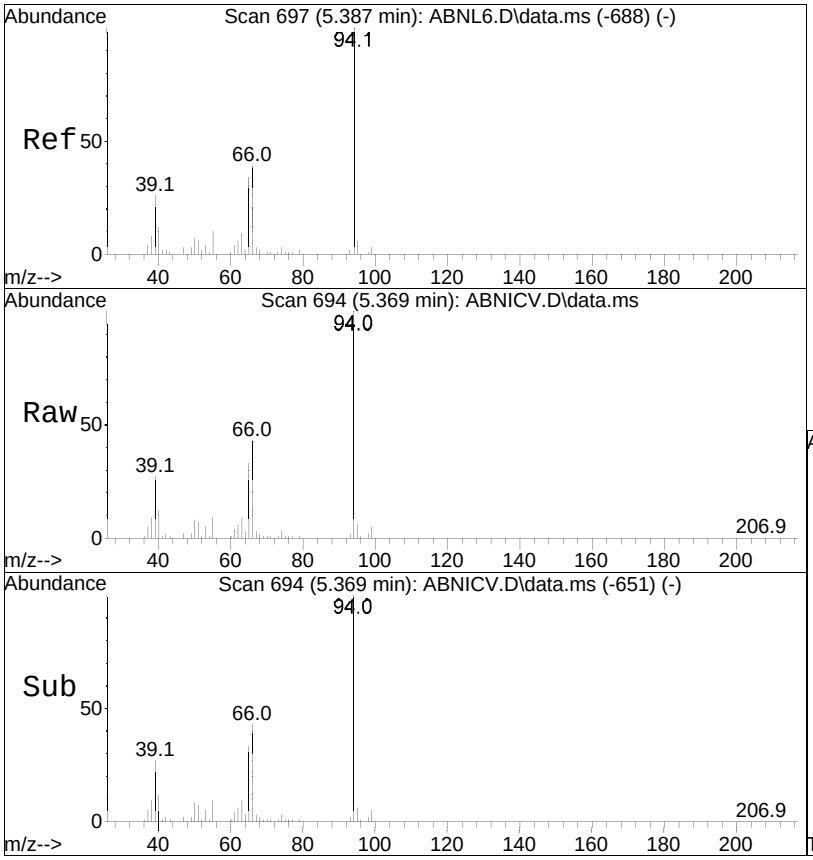


#6
2-Chlorophenol
Concen: 5.35 ug/ml
RT: 5.416 min Scan# 702
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:128 Resp: 91025

Ion	Ratio	Lower	Upper
128	100		
64	54.7	45.1	67.7
130	32.8	26.2	39.4

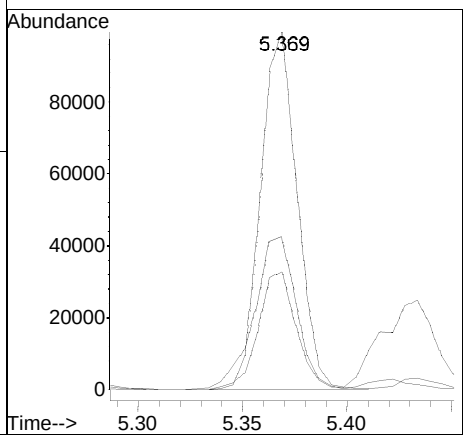


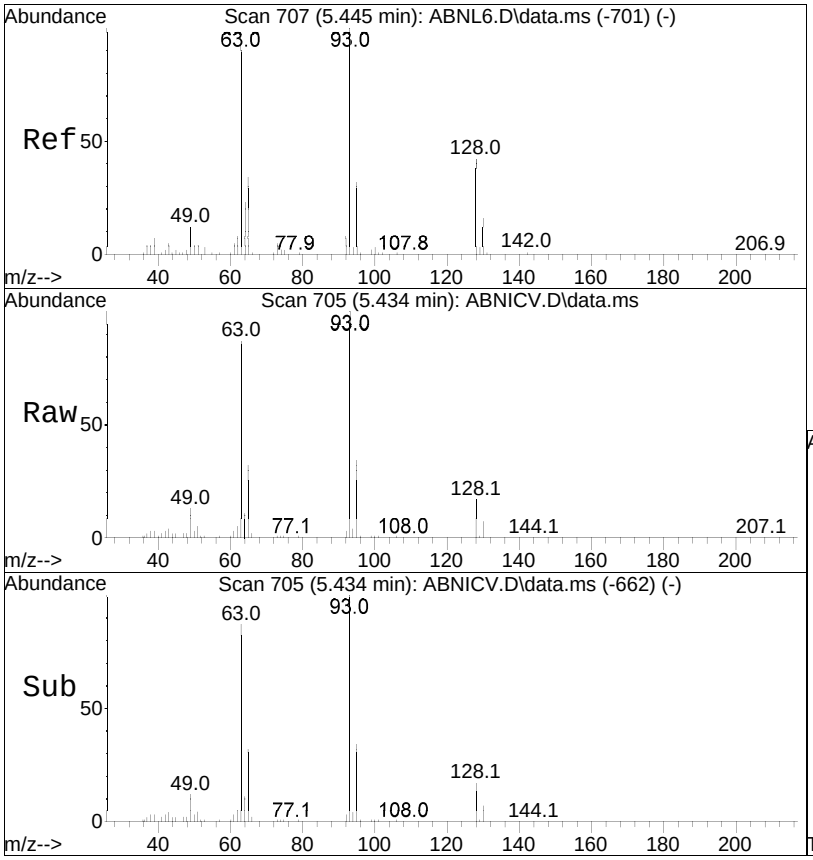


#8
Phenol
Concen: 5.57 ug/ml
RT: 5.369 min Scan# 694
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 94 Resp: 120165

Ion	Ratio	Lower	Upper
94	100		
65	34.7	26.0	39.0
66	49.7	33.8	50.8

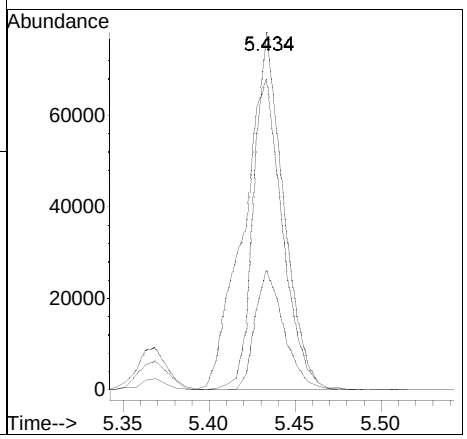


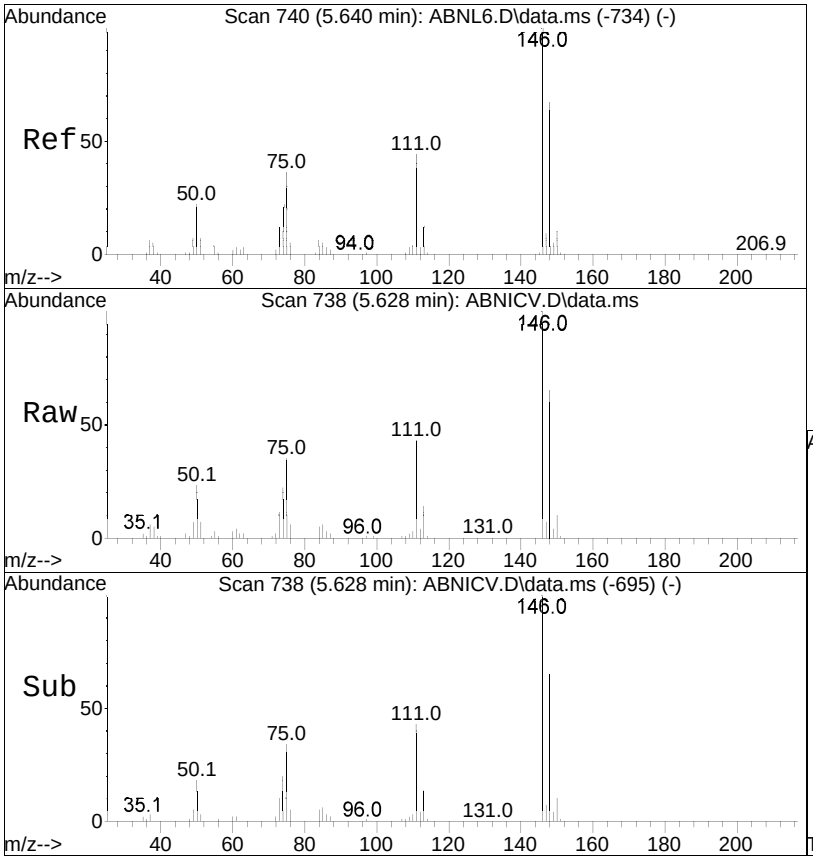


#9
Bis(2-chloroethyl)ether
Concen: 5.47 ug/ml
RT: 5.434 min Scan# 705
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 93061

Ion	Ratio	Lower	Upper
93	100		
63	118.6	74.6	111.8#
95	32.7	25.9	38.9

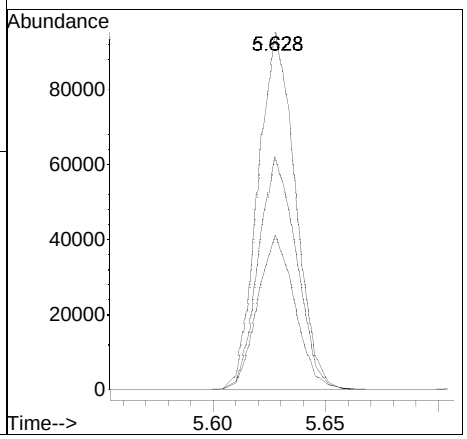


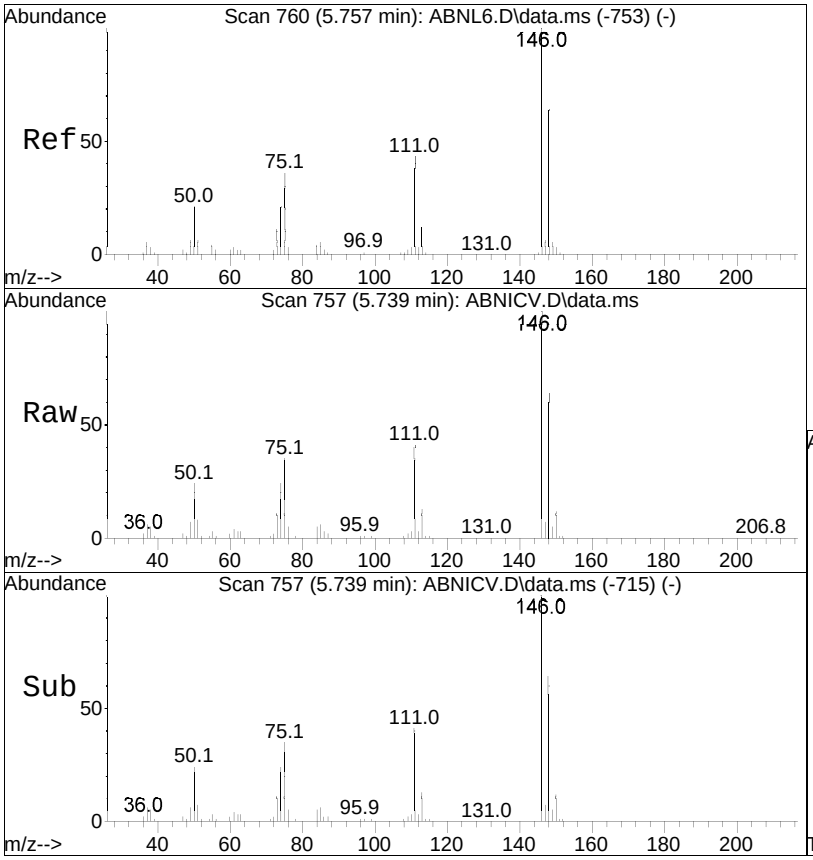


#10
1,3-Dichlorobenzene
Concen: 5.54 ug/ml
RT: 5.628 min Scan# 738
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 109198

Ion	Ratio	Lower	Upper
146	100		
111	43.3	34.3	51.5
148	66.2	50.8	76.2

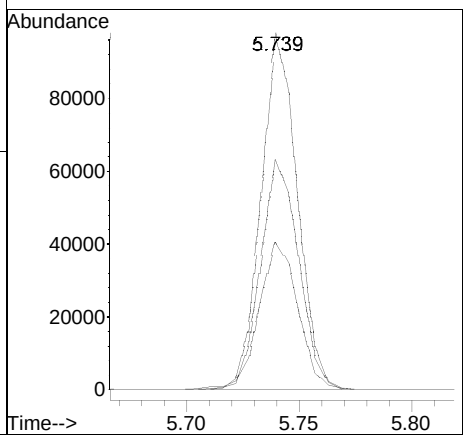


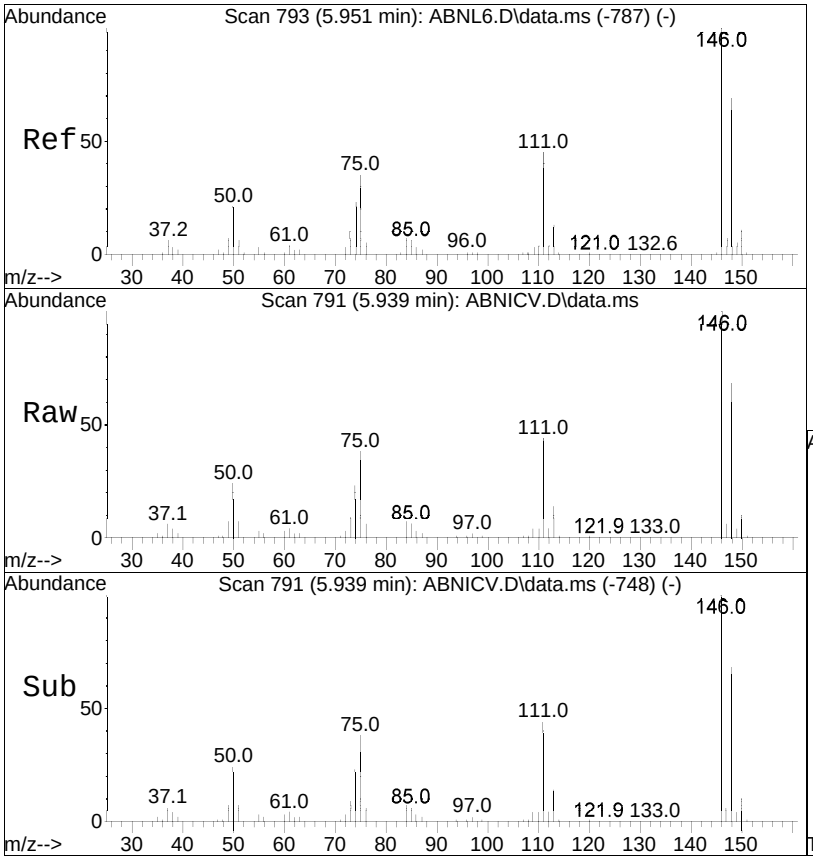


#11
1,4-Dichlorobenzene
Concen: 5.29 ug/ml
RT: 5.739 min Scan# 757
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 108839

Ion	Ratio	Lower	Upper
146	100		
148	67.9	50.7	76.1
111	44.7	33.4	50.0

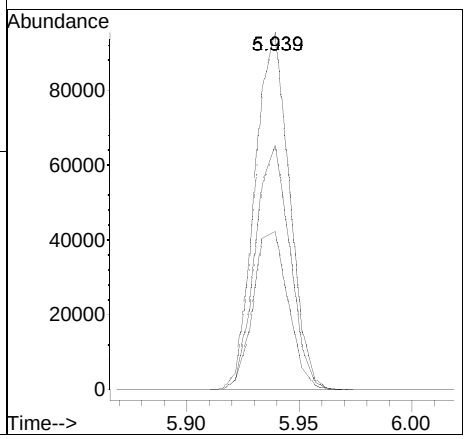


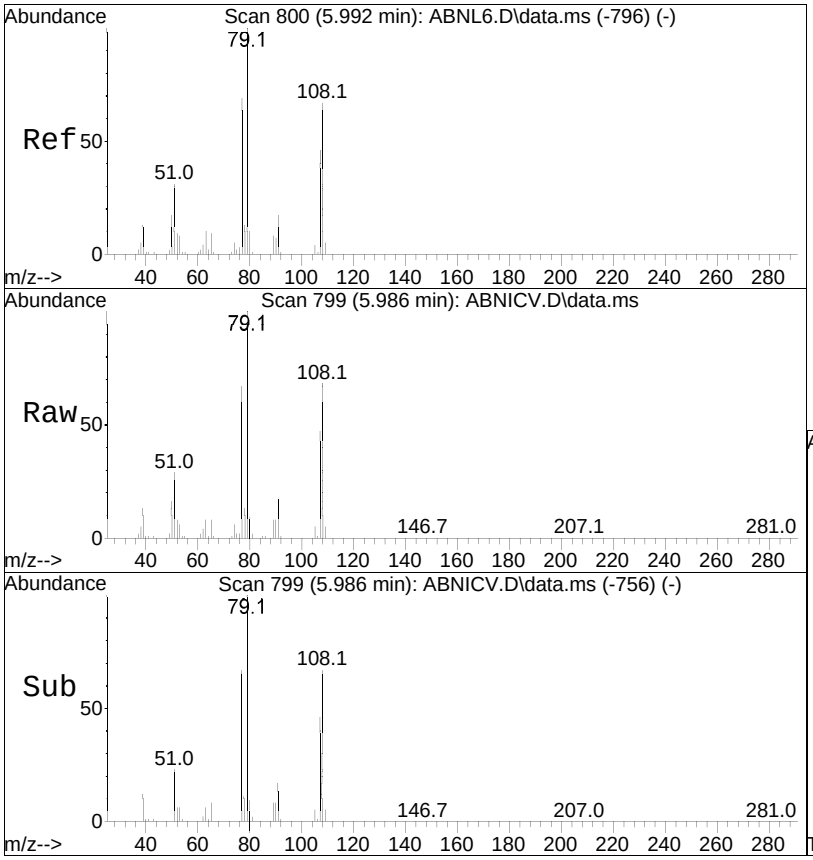


#12
1,2-Dichlorobenzene
Concen: 5.41 ug/ml
RT: 5.939 min Scan# 791
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:146 Resp: 101739

Ion	Ratio	Lower	Upper
146	100		
111	45.2	34.6	52.0
148	68.6	50.2	75.4

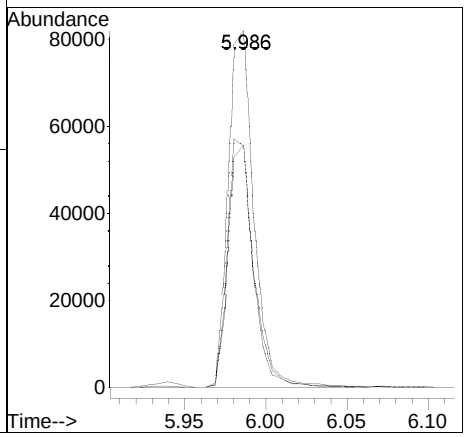


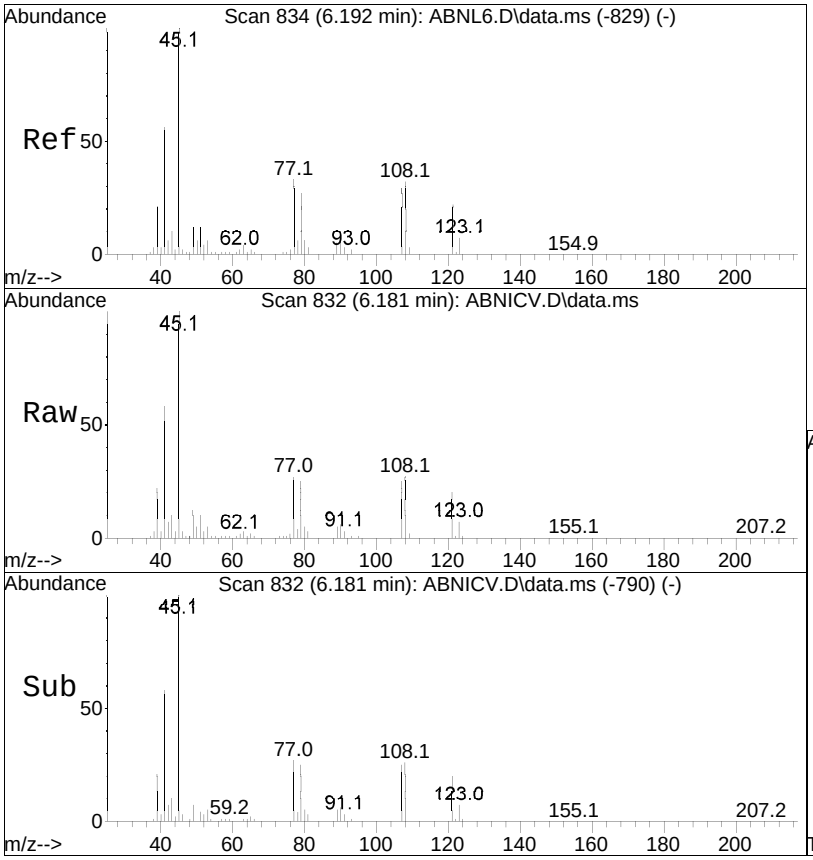


#13
Benzyl alcohol
Concen: 5.47 ug/ml
RT: 5.986 min Scan# 799
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 79 Resp: 90140

Ion	Ratio	Lower	Upper
79	100		
77	68.8	54.9	82.3
108	68.1	63.1	94.7

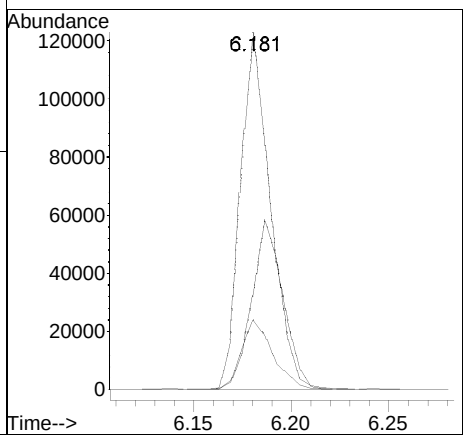


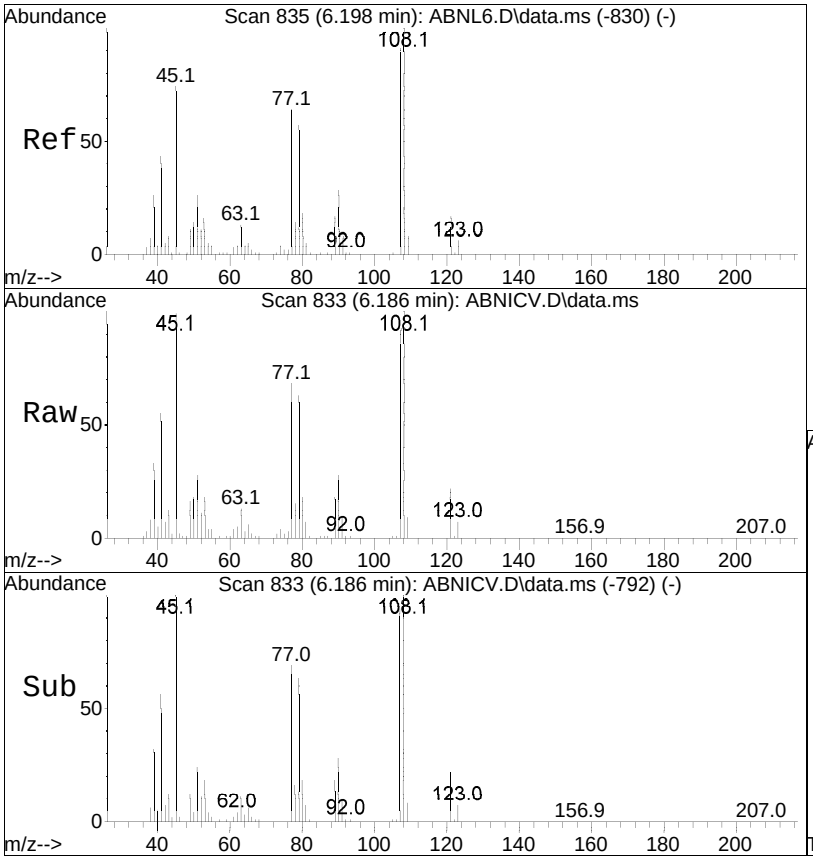


#14
Bis(2-chloroisopropyl)ether
Concen: 5.29 ug/ml
RT: 6.181 min Scan# 832
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 45 Resp: 133201

Ion	Ratio	Lower	Upper
45	100		
121	20.3	9.8	14.6#
77	46.6	6.1	9.1#

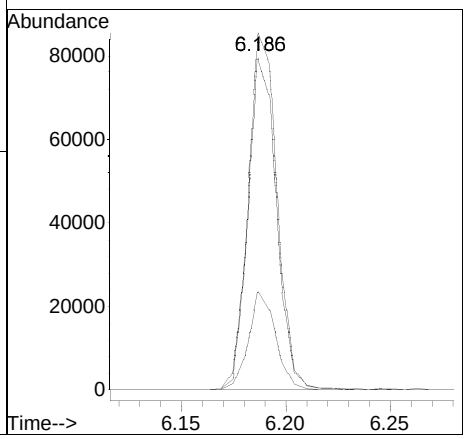


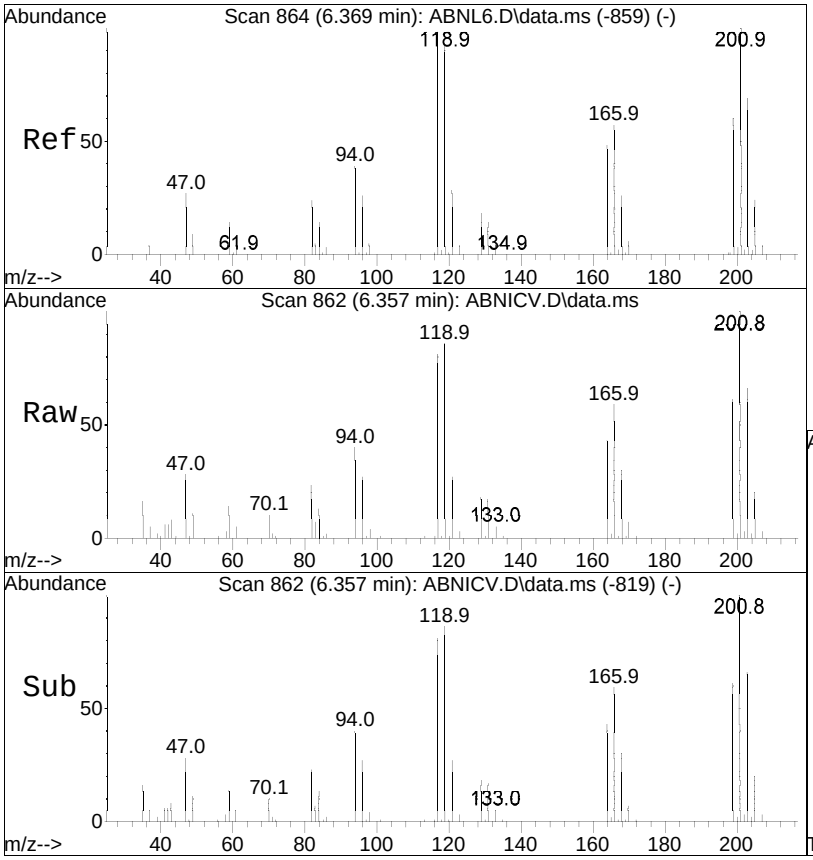


#15
2-Methylphenol
Concen: 5.37 ug/ml
RT: 6.186 min Scan# 833
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:108 Resp: 82305

Ion	Ratio	Lower	Upper
108	100		
107	91.0	70.7	106.1
90	25.6	18.7	28.1

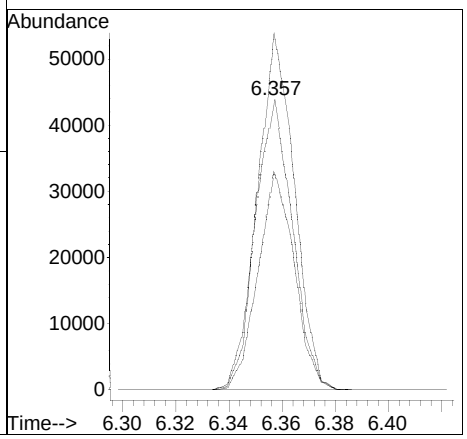


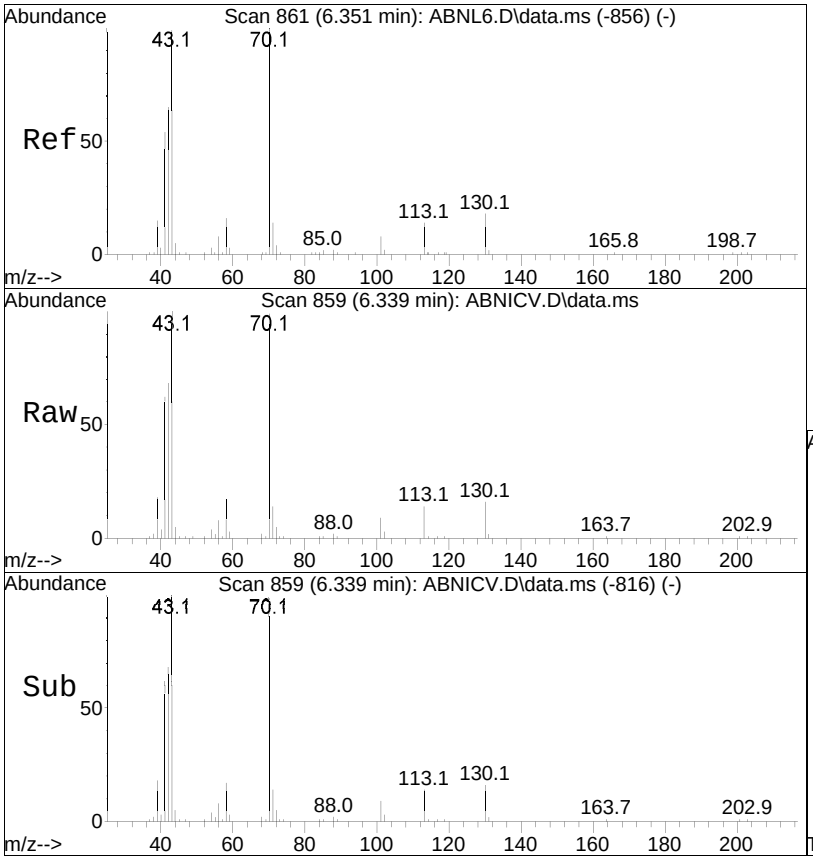


#16
Hexachloroethane
Concen: 5.11 ug/ml
RT: 6.357 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:117 Resp: 42924

Ion	Ratio	Lower	Upper
117	100		
201	119.7	58.6	87.8#
199	72.7	36.9	55.3#

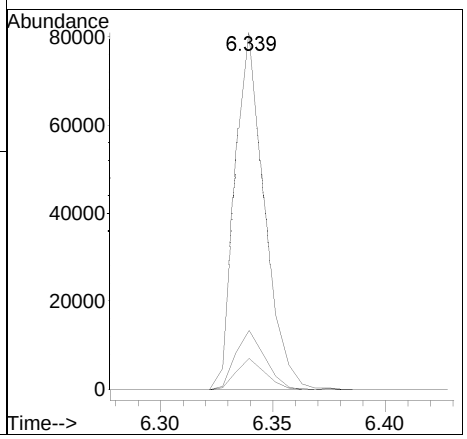


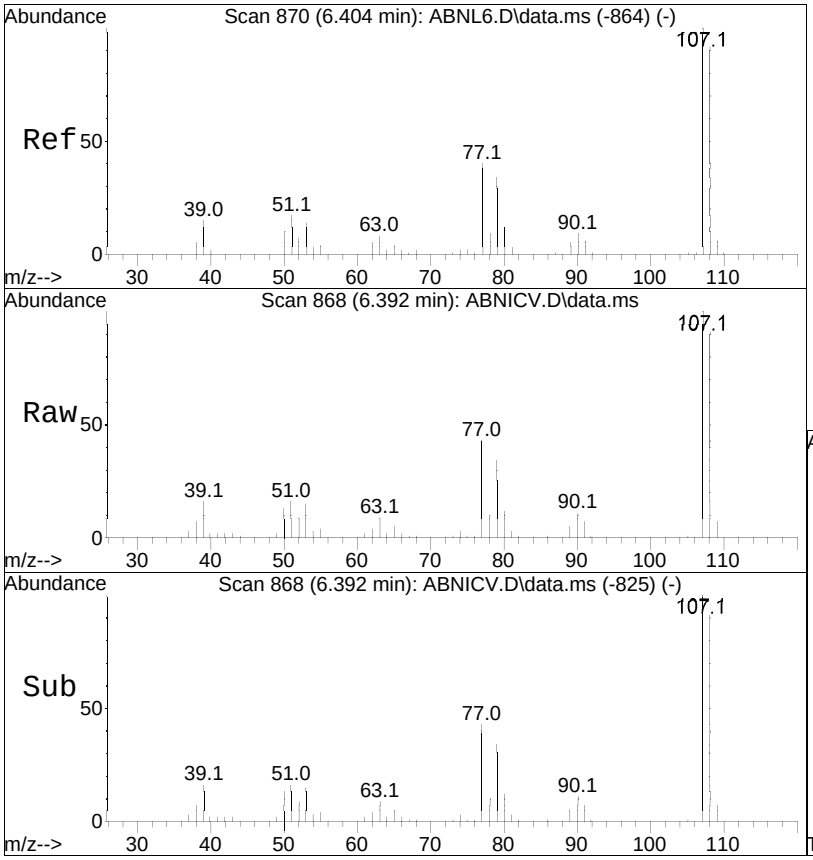


#17
n-Nitrosodi-n-propylamine
Concen: 5.15 ug/ml
RT: 6.339 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 70 Resp: 73780

Ion	Ratio	Lower	Upper
70	100		
130	16.5	18.2	27.4#
101	8.7	7.8	11.8

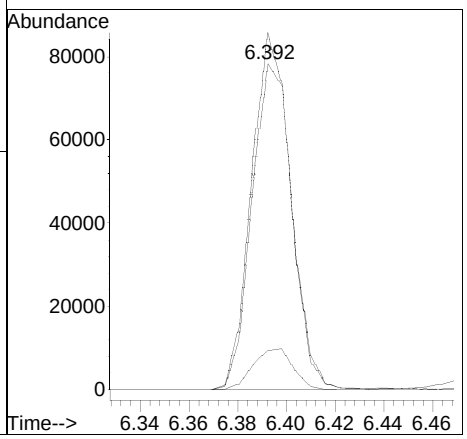


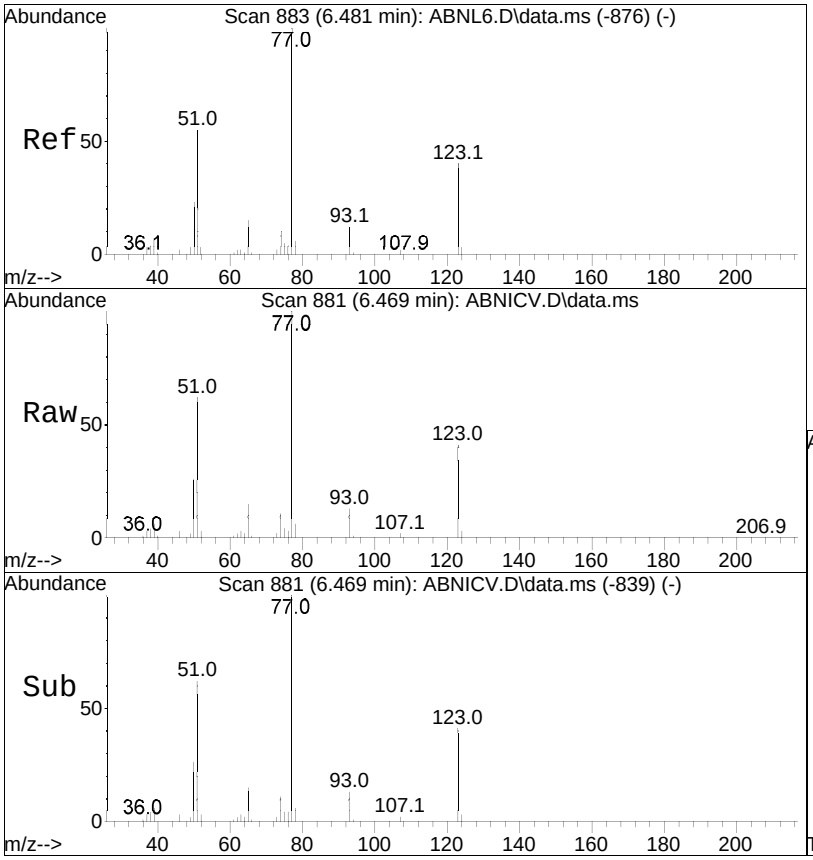


#18
3-Methylphenol/4-Methylphenol
Concen: 5.40 ug/ml
RT: 6.392 min Scan# 868
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:108 Resp: 90130

Ion	Ratio	Lower	Upper
108	100		
107	105.5	88.6	132.8
90	12.6	8.8	13.2

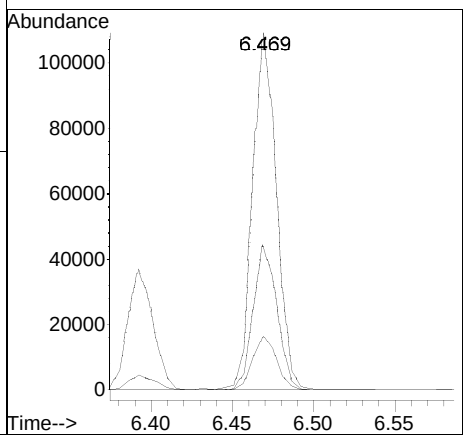


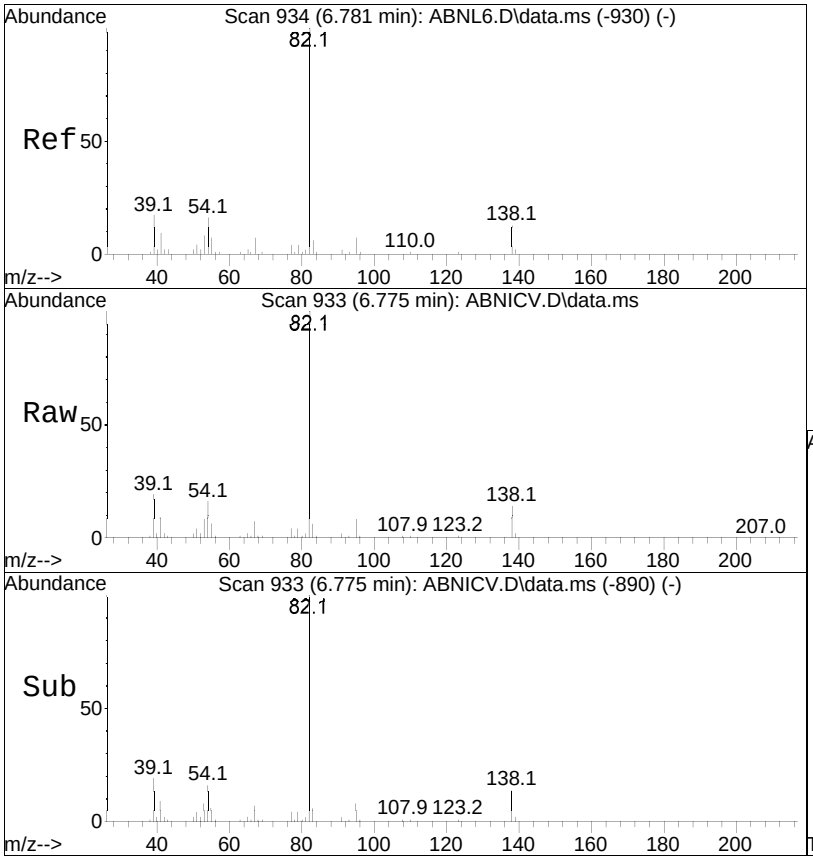


#20
Nitrobenzene
Concen: 5.31 ug/ml
RT: 6.469 min Scan# 881
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 77 Resp: 110784

Ion	Ratio	Lower	Upper
77	100		
123	40.6	36.3	54.5
65	15.1	11.6	17.4

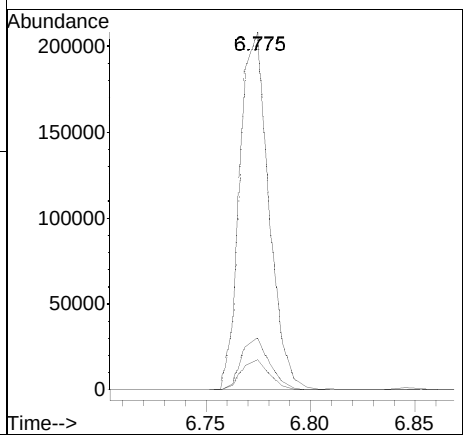


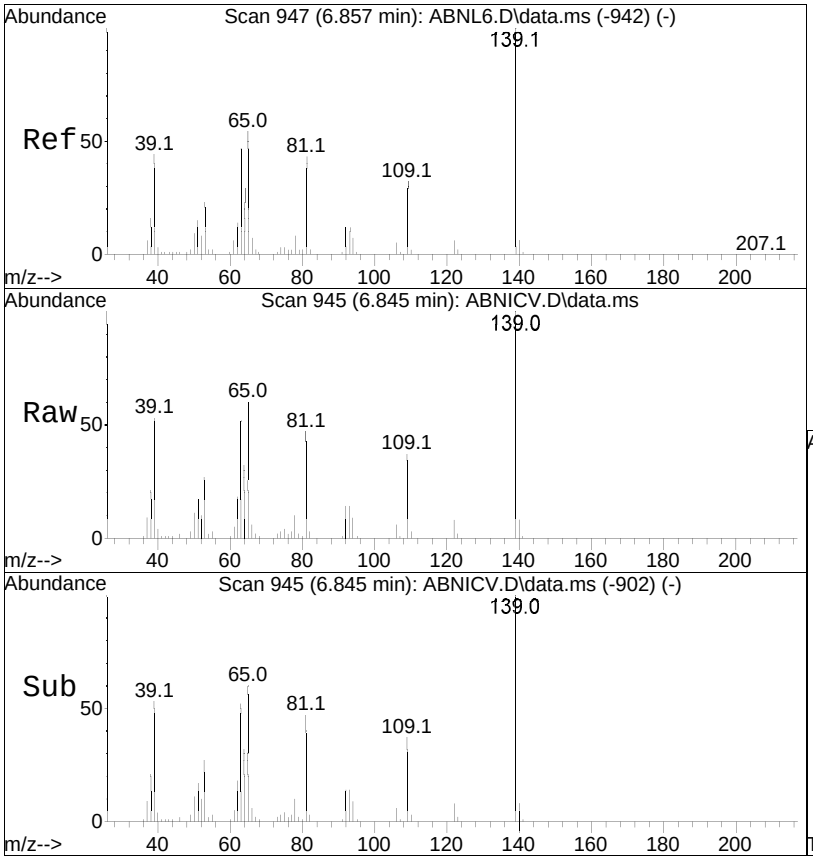


#21
Isophorone
Concen: 5.40 ug/ml
RT: 6.775 min Scan# 933
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 82 Resp: 199881

Ion	Ratio	Lower	Upper
82	100		
138	14.2	14.7	22.1#
95	8.3	5.2	7.8#

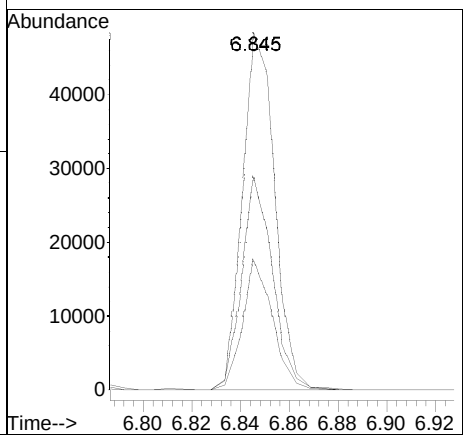


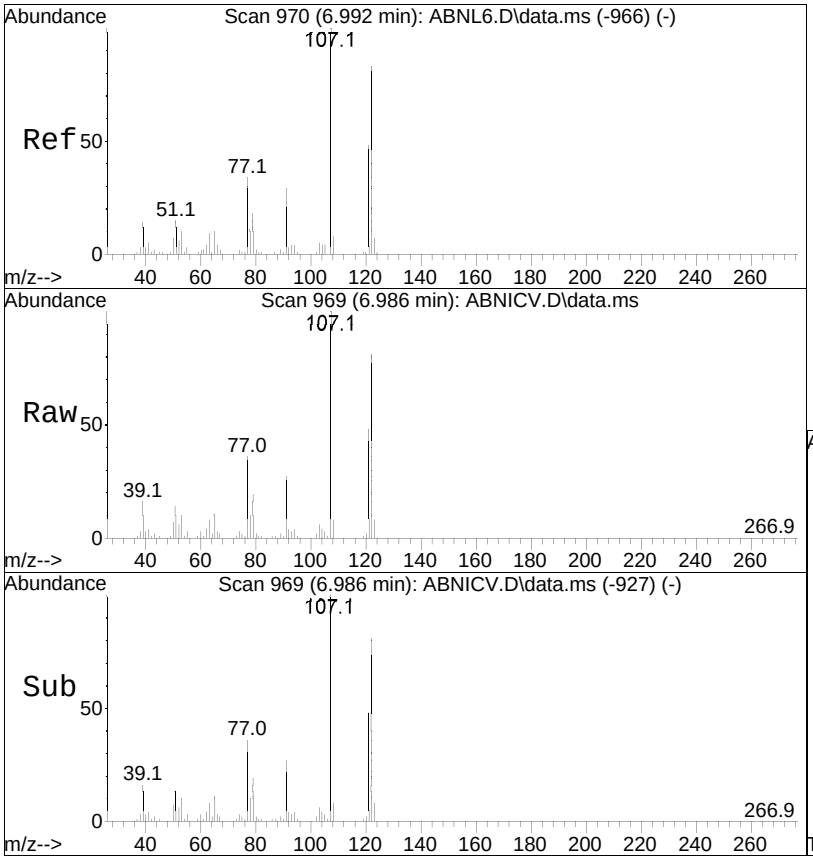


#22
2-Nitrophenol
Concen: 5.14 ug/ml
RT: 6.845 min Scan# 945
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:139 Resp: 44317

Ion	Ratio	Lower	Upper
139	100		
109	34.0	19.4	29.0#
65	57.0	46.1	69.1

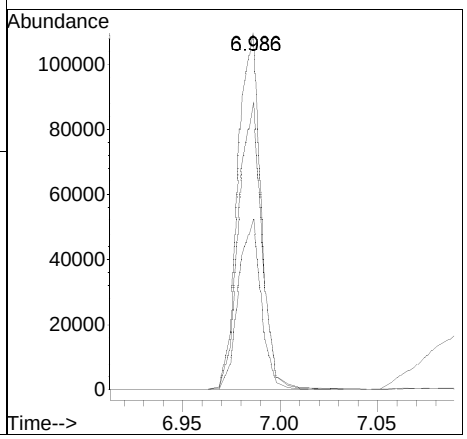


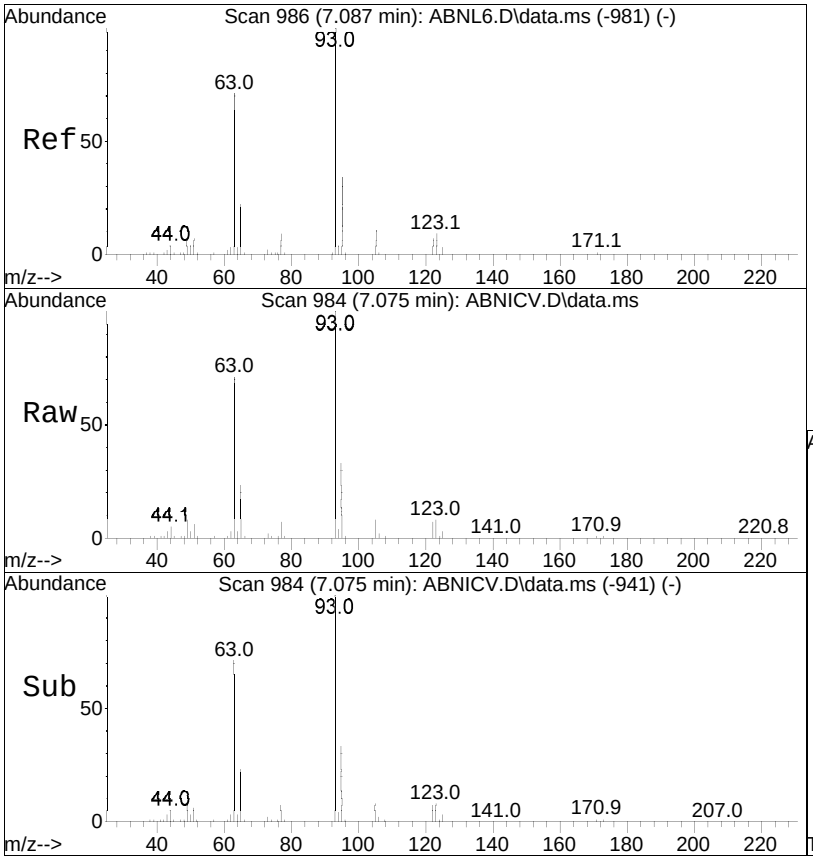


#23
2,4-Dimethylphenol
Concen: 5.17 ug/ml
RT: 6.986 min Scan# 969
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:107 Resp: 90318

Ion	Ratio	Lower	Upper
107	100		
121	46.7	40.0	60.0
122	80.4	70.2	105.4

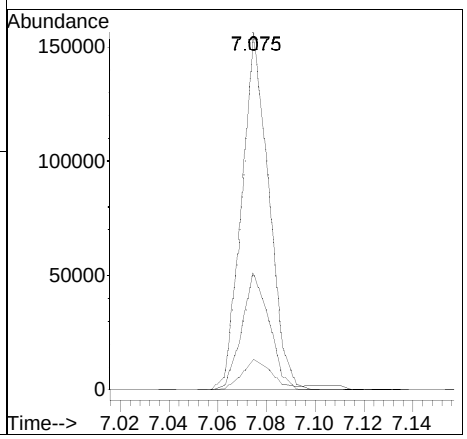


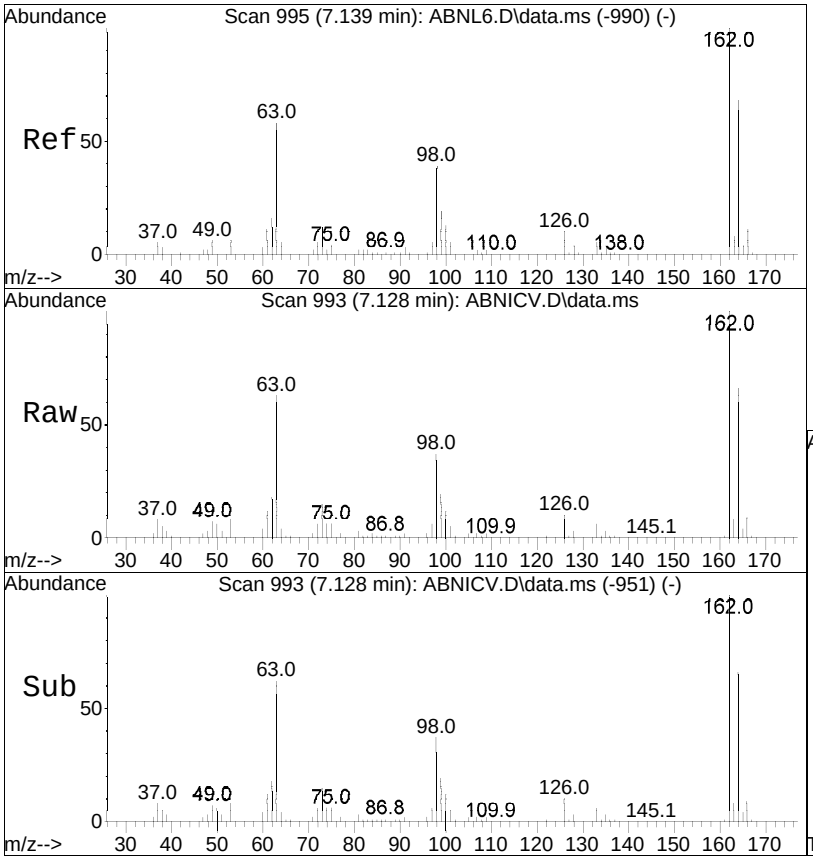


#24
Bis(2-chloroethoxy)methane
Concen: 5.19 ug/ml
RT: 7.075 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 93 Resp: 120495

Ion	Ratio	Lower	Upper
93	100		
95	33.4	25.8	38.8
123	9.6	10.1	15.1#

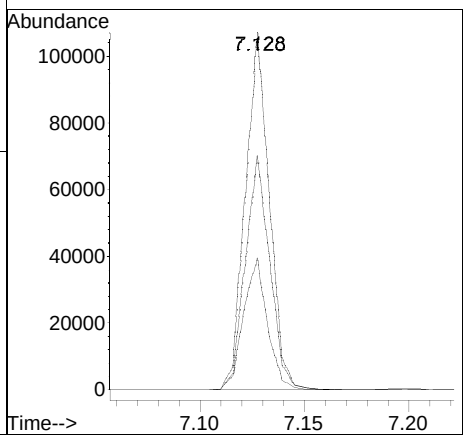


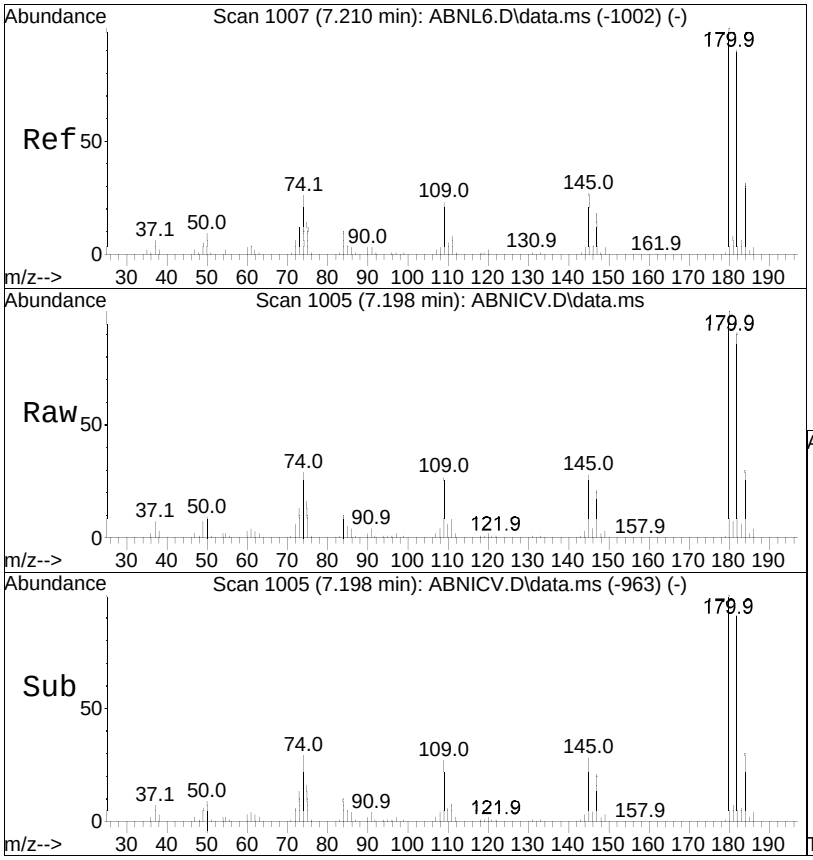


#25
2,4-Dichlorophenol
Concen: 5.30 ug/ml
RT: 7.128 min Scan# 993
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:162 Resp: 84379

Ion	Ratio	Lower	Upper
162	100		
164	67.1	51.0	76.4
98	37.2	32.2	48.2

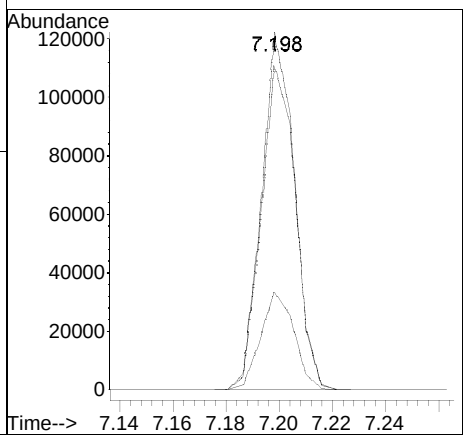


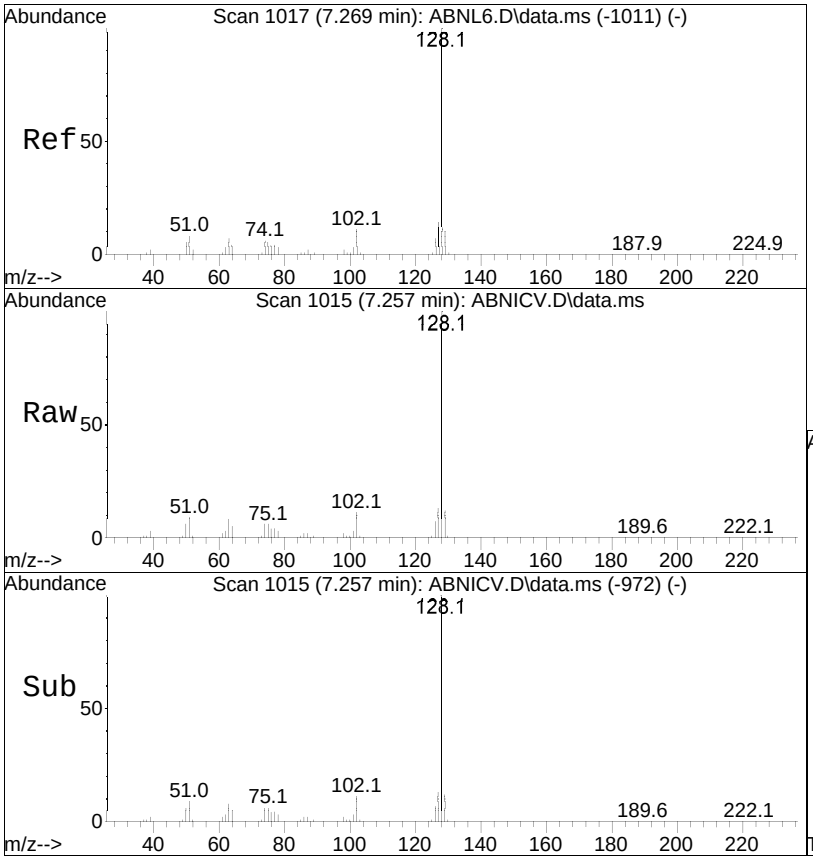


#26
1,2,4-Trichlorobenzene
Concen: 5.34 ug/ml
RT: 7.198 min Scan# 1005
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:180 Resp: 103737

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.0	114.0
145	27.9	25.7	38.5

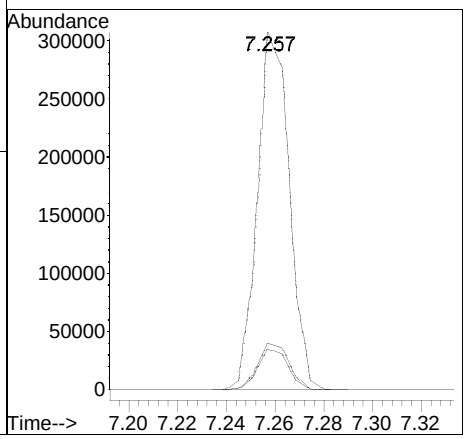


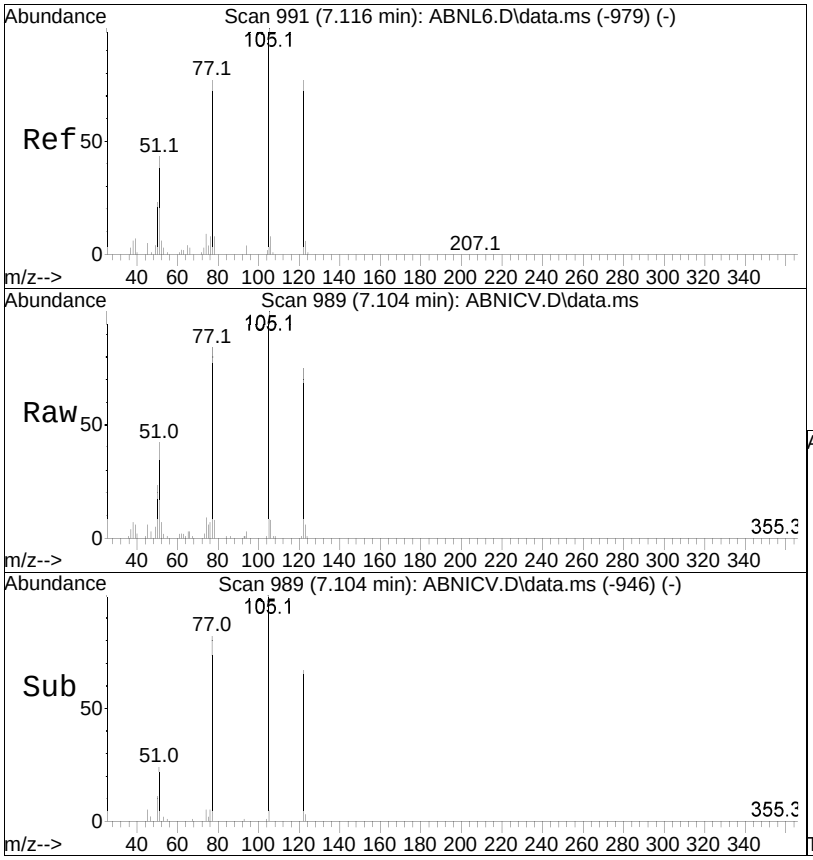


#35
Naphthalene
Concen: 5.16 ug/ml
RT: 7.257 min Scan# 1015
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:128 Resp: 275355

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.7	13.1
127	13.2	10.3	15.5

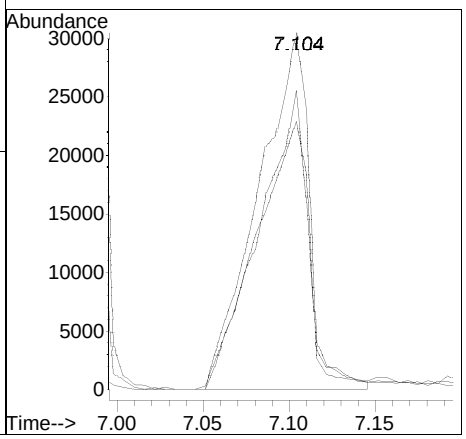


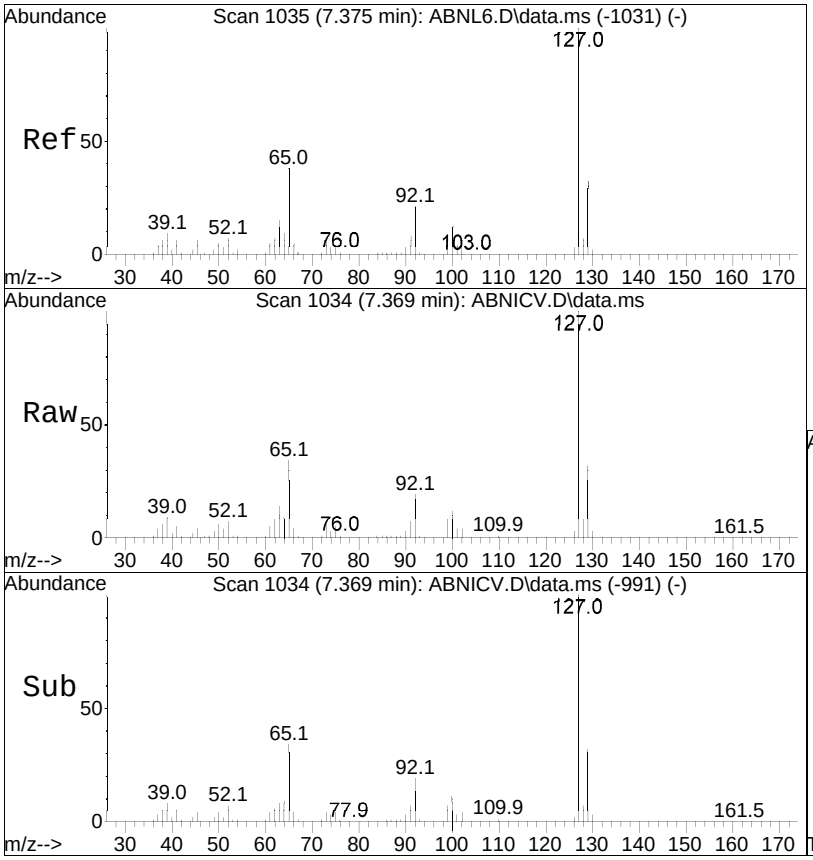


#36
Benzoic Acid
Concen: 4.79 ug/ml
RT: 7.104 min Scan# 989
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:105 Resp: 62908

Ion	Ratio	Lower	Upper
105	100		
122	79.1	59.9	89.9
77	80.8	60.1	90.1

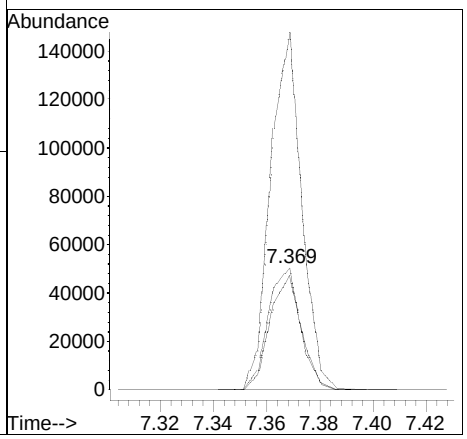


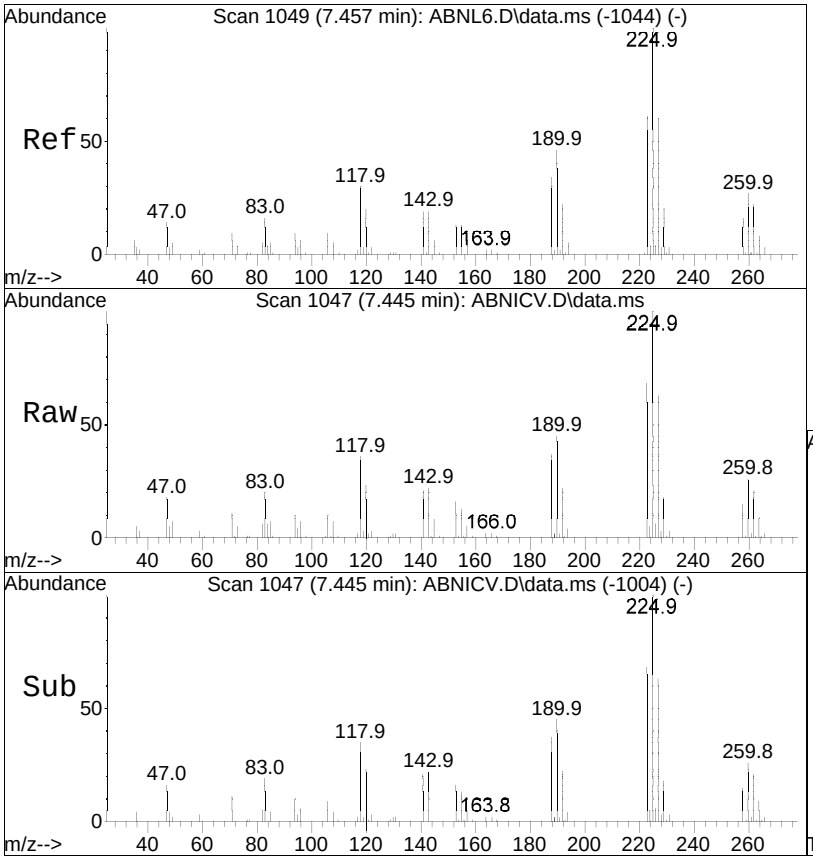


#37
4-Chloroaniline
Concen: 5.29 ug/ml
RT: 7.369 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 65 Resp: 42321

Ion	Ratio	Lower	Upper
65	100		
127	282.4	237.6	356.4
129	91.5	76.3	114.5

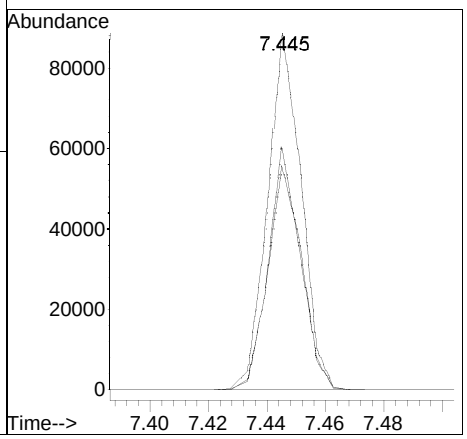


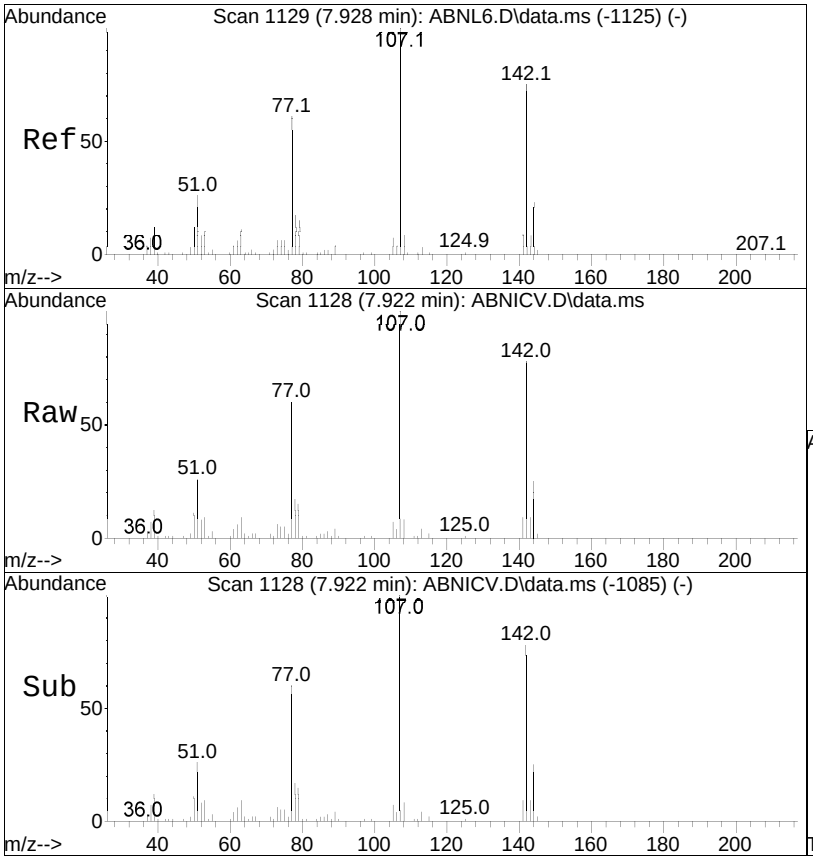


#38
Hexachlorobutadiene
Concen: 5.12 ug/ml
RT: 7.445 min Scan# 1047
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:225 Resp: 70394

Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.3	75.5
227	63.8	52.2	78.2

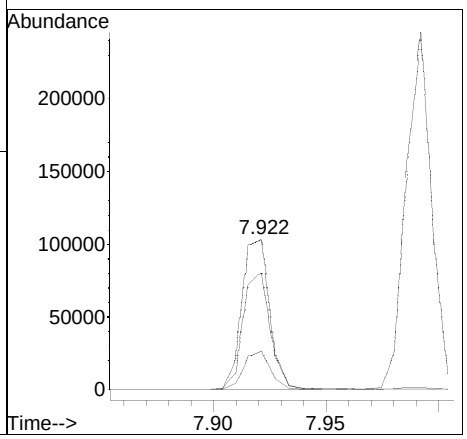


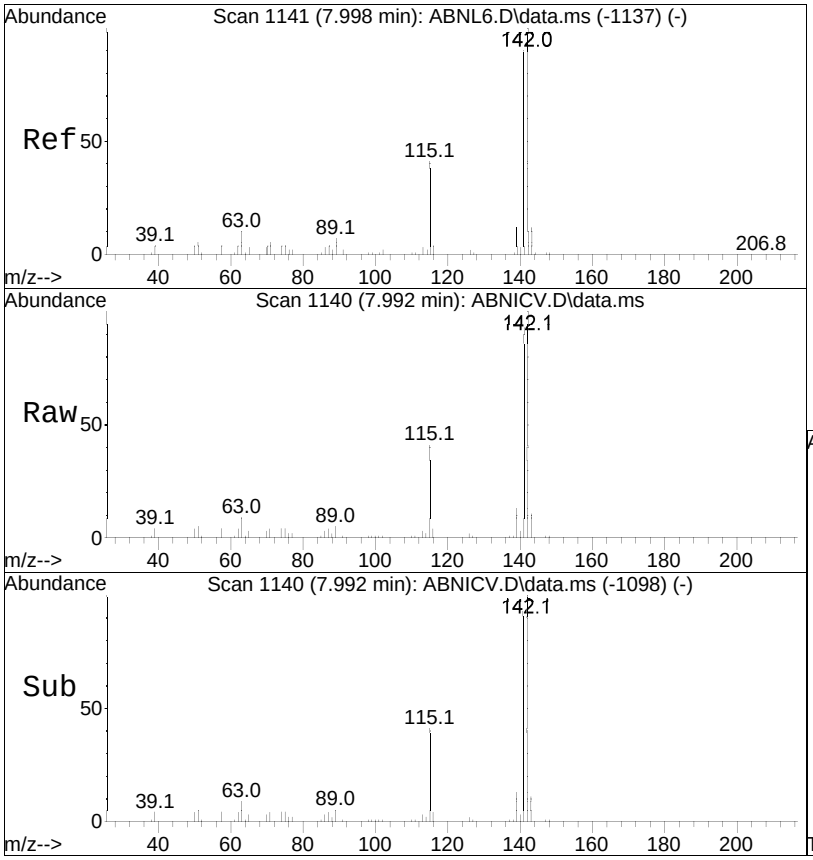


#39
p-Chloro-m-cresol
Concen: 5.47 ug/ml
RT: 7.922 min Scan# 1128
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:107 Resp: 89489

Ion	Ratio	Lower	Upper
107	100		
144	24.3	20.9	31.3
142	75.9	66.1	99.1

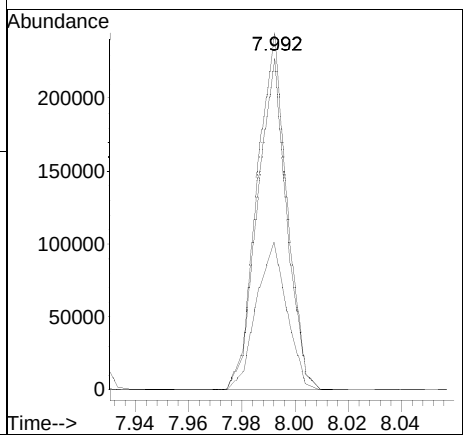


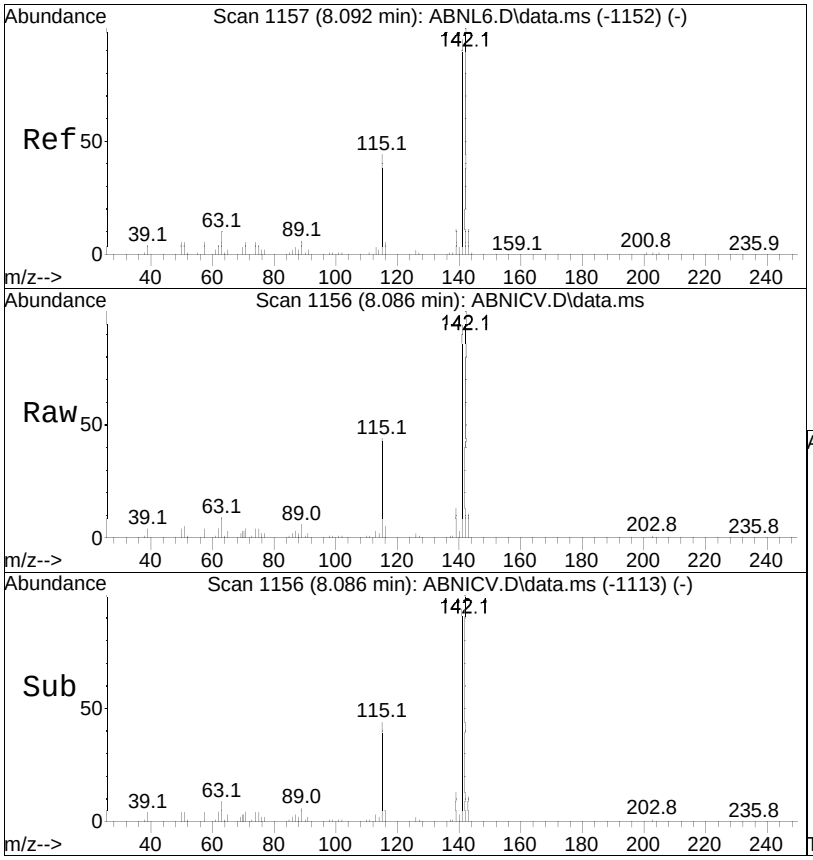


#40
2-Methylnaphthalene
Concen: 5.39 ug/ml
RT: 7.992 min Scan# 1140
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:142 Resp: 191594

Ion	Ratio	Lower	Upper
142	100		
141	90.8	69.6	104.4
115	42.5	26.6	40.0#

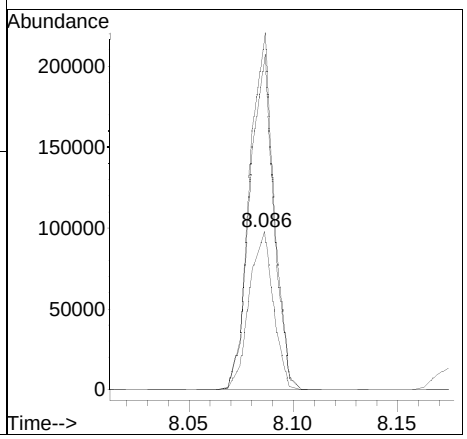


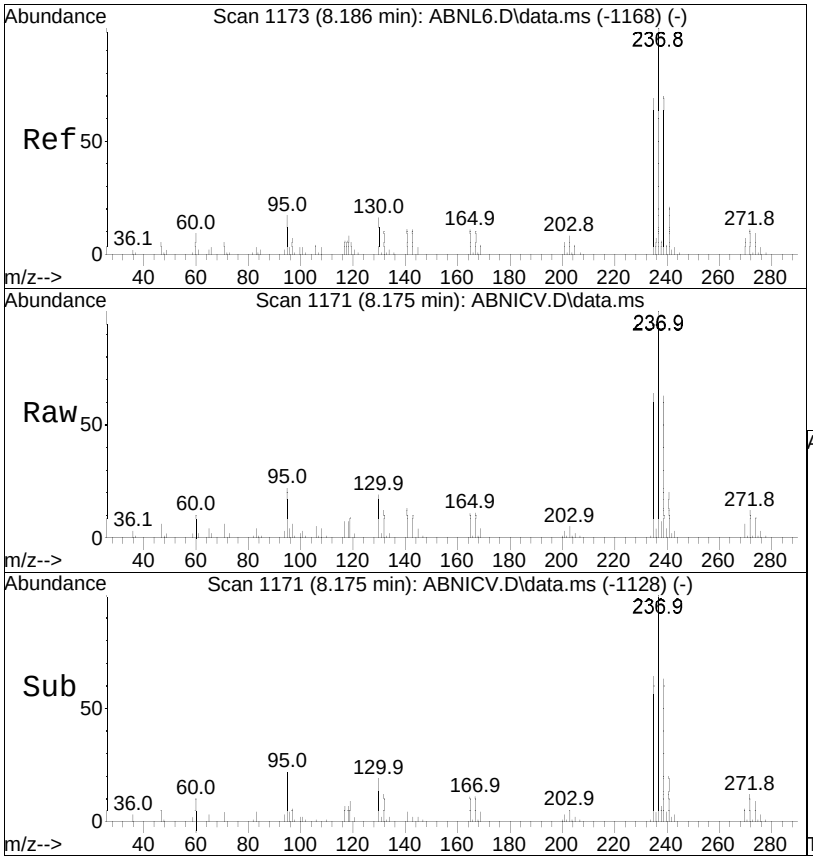


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml M3
RT: 8.086 min Scan# 1156
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:115 Resp: 79496

Ion	Ratio	Lower	Upper
115	100		
141	218.8	207.8	311.6
142	241.0	226.8	340.2

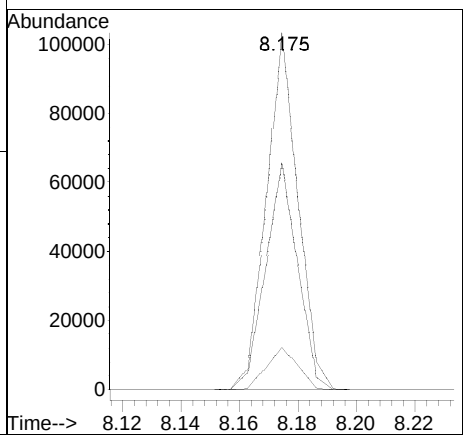


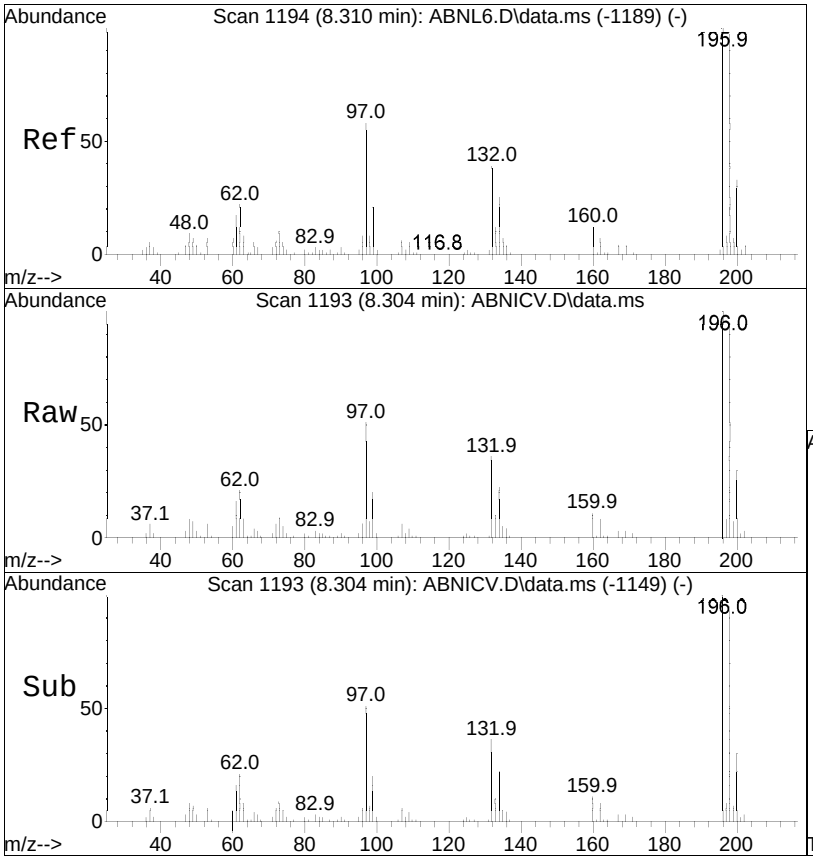


#42
Hexachlorocyclopentadiene
Concen: 5.64 ug/ml
RT: 8.175 min Scan# 1171
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:237 Resp: 77101

Ion	Ratio	Lower	Upper
237	100		
235	64.7	49.7	74.5
272	12.1	9.8	14.6

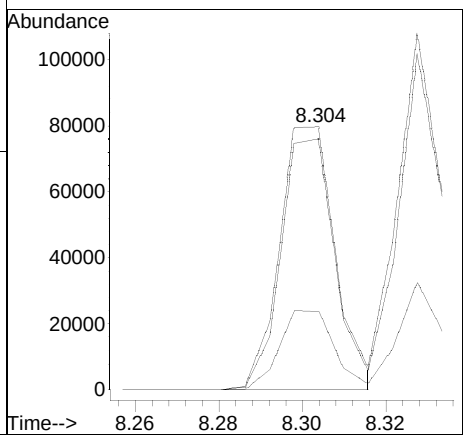


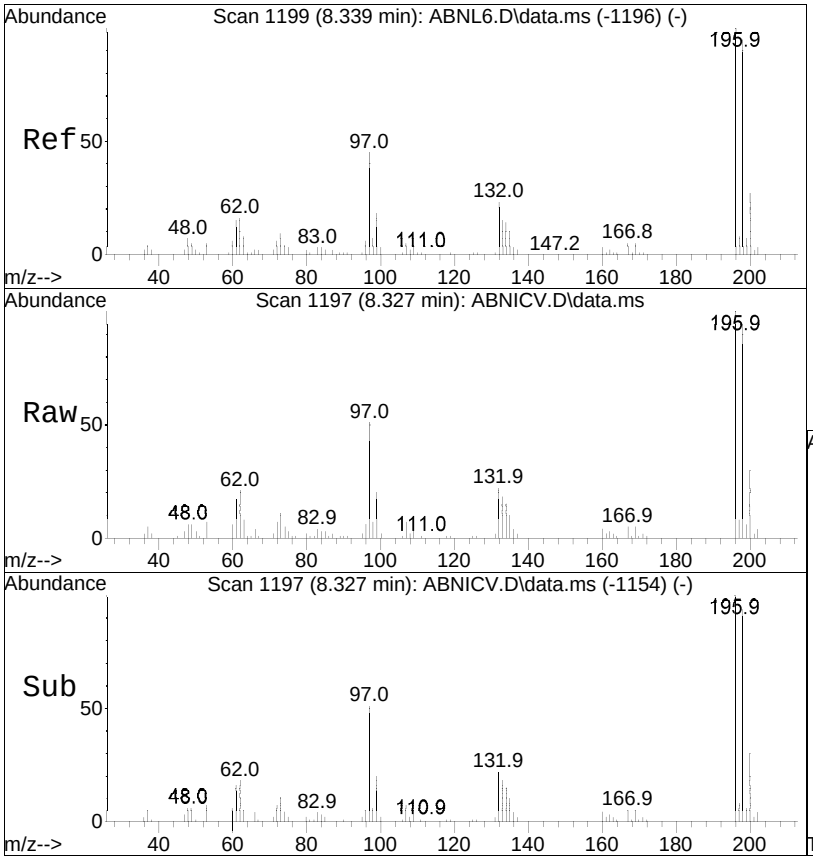


#43
2,4,6-Trichlorophenol
Concen: 5.59 ug/ml
RT: 8.304 min Scan# 1193
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:196 Resp: 74268

Ion	Ratio	Lower	Upper
196	100		
198	92.4	77.5	116.3
200	29.7	23.8	35.6

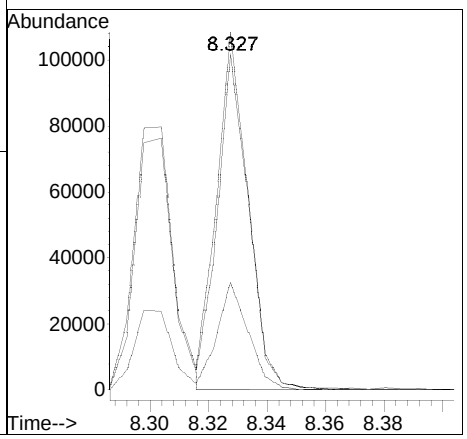


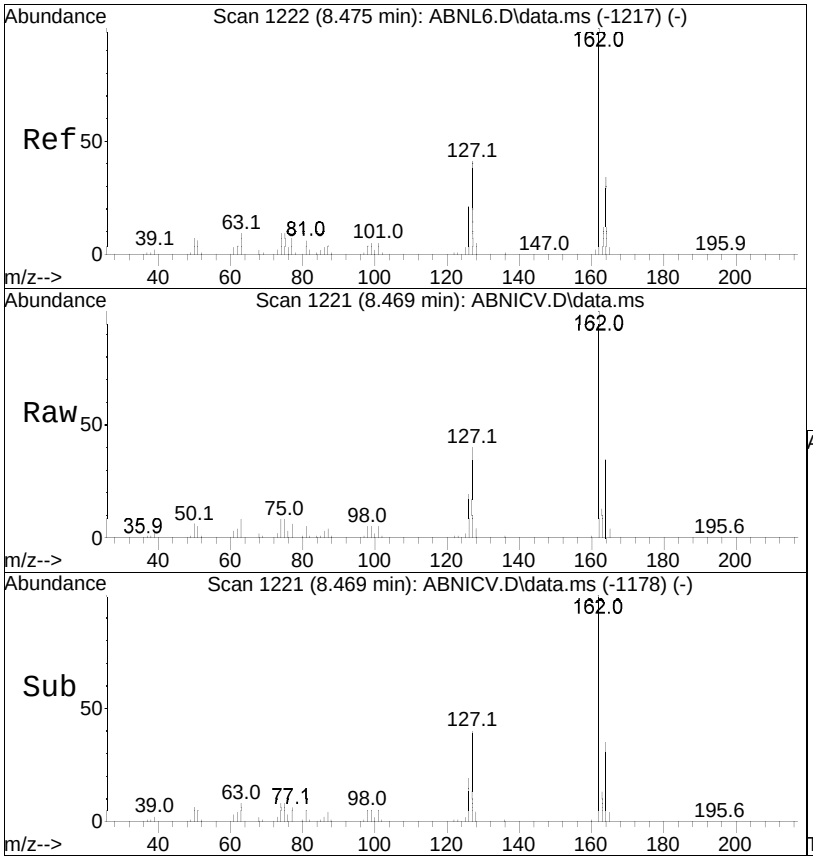


#44
2,4,5-Trichlorophenol
Concen: 5.55 ug/ml
RT: 8.327 min Scan# 1197
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:196 Resp: 80319

Ion	Ratio	Lower	Upper
196	100		
200	30.4	25.4	38.0
198	92.5	78.0	117.0

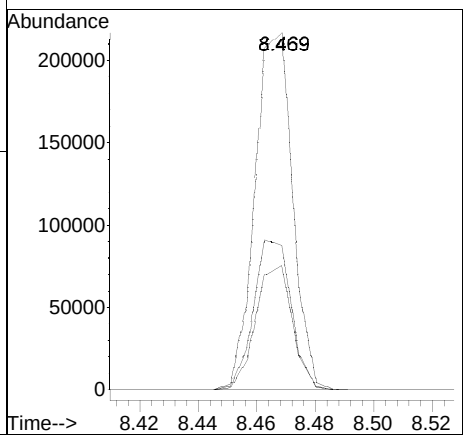


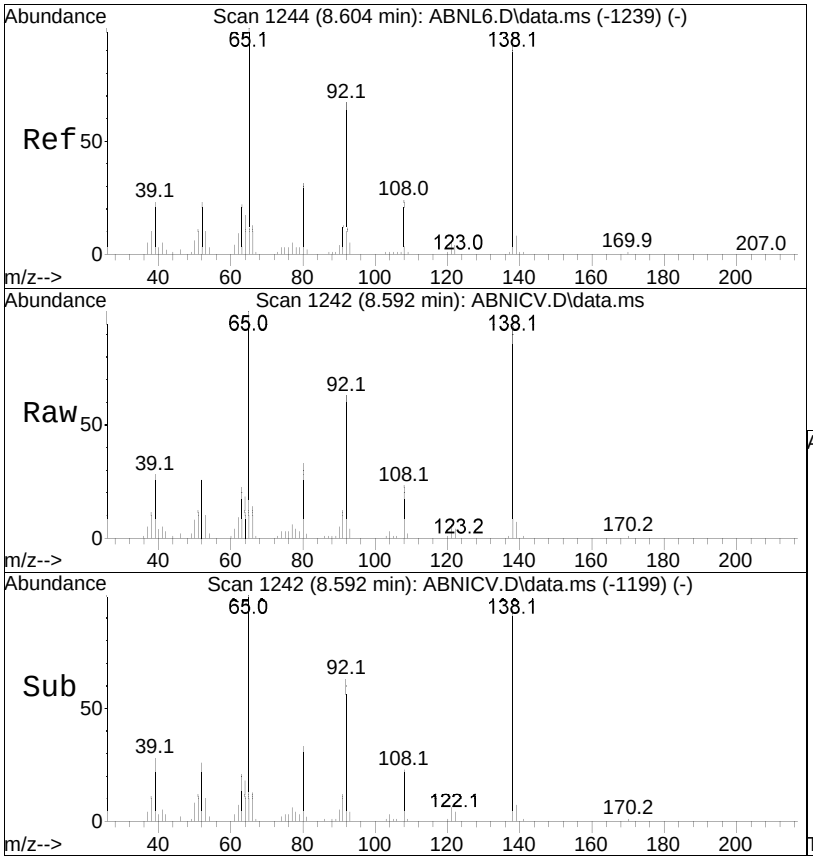


#46
2-Chloronaphthalene
Concen: 5.16 ug/ml
RT: 8.469 min Scan# 1221
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:162 Resp: 191892

Ion	Ratio	Lower	Upper
162	100		
127	42.1	32.2	48.4
164	34.2	25.7	38.5

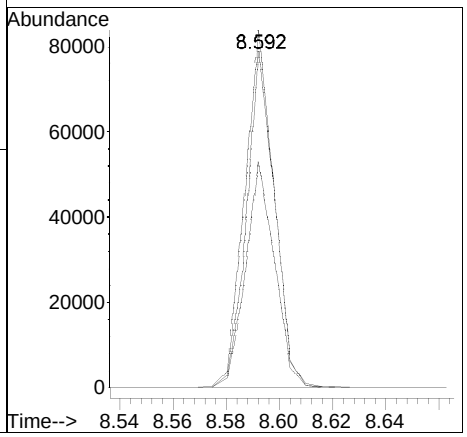


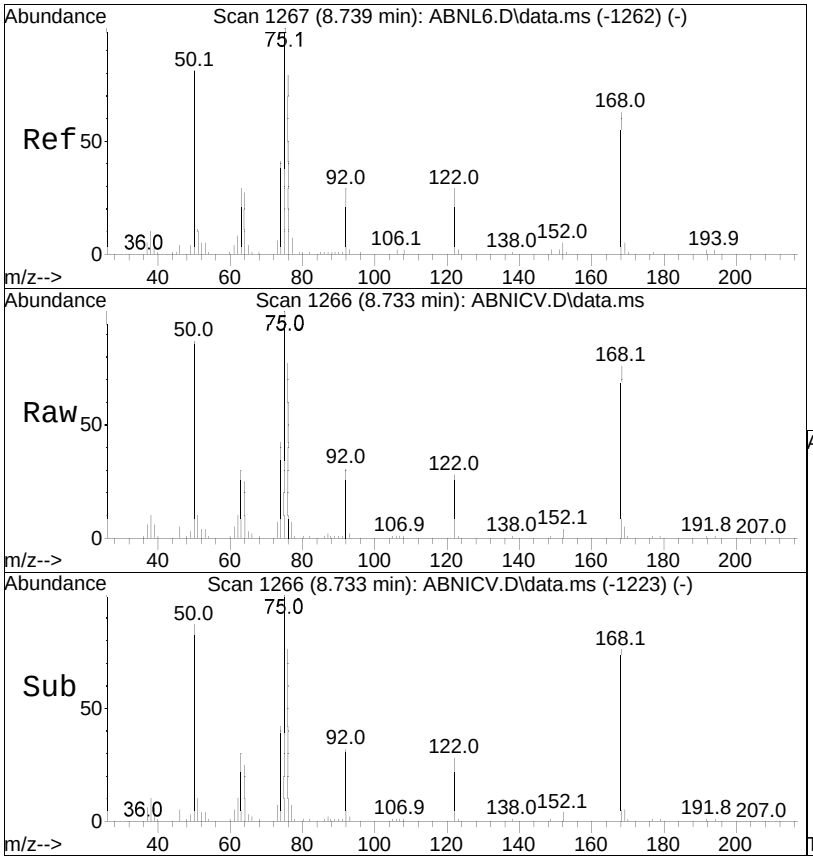


#47
2-Nitroaniline
Concen: 5.32 ug/ml
RT: 8.592 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 57318

Ion	Ratio	Lower	Upper
138	100		
92	69.6	53.5	80.3
65	111.2	86.3	129.5

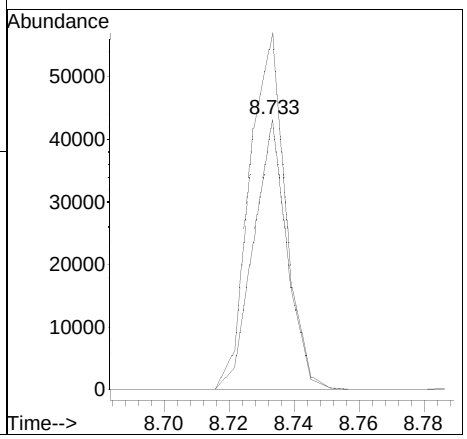


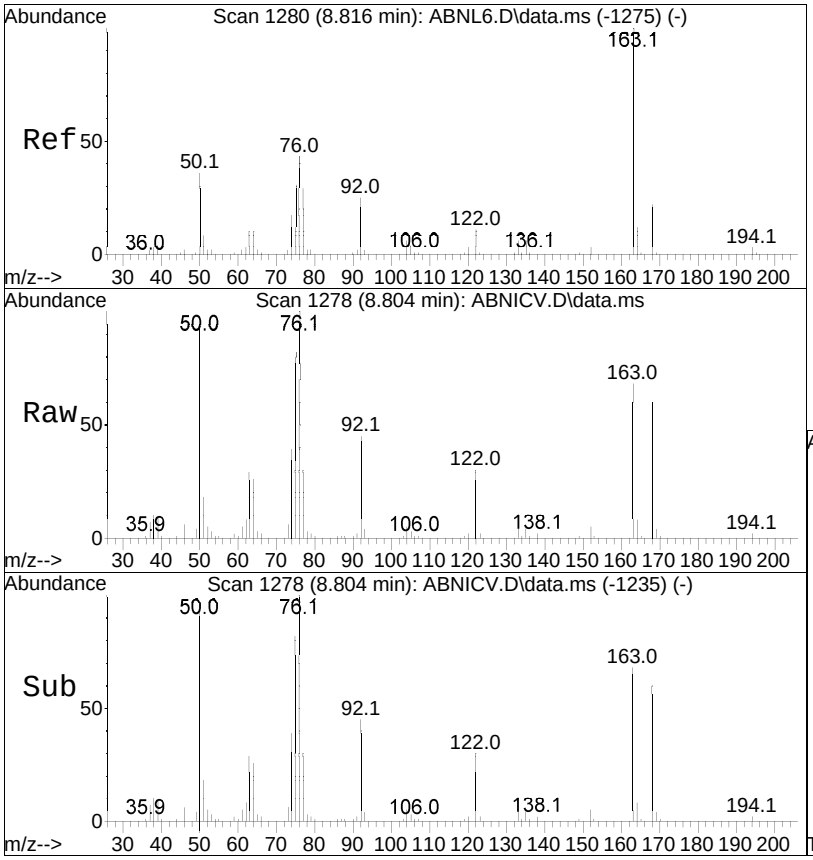


#48
1,4-Dinitrobenzene
Concen: 5.44 ug/ml
RT: 8.733 min Scan# 1266
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 31021

Ion	Ratio	Lower	Upper
168	100		
75	140.8	121.8	182.8

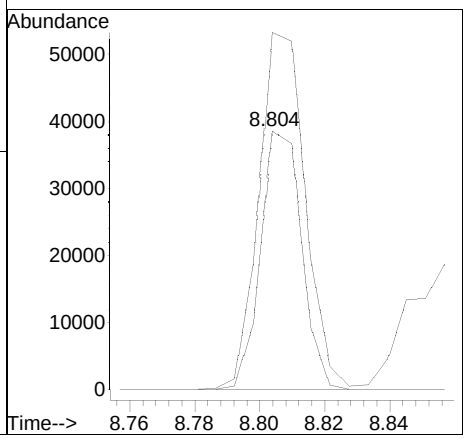


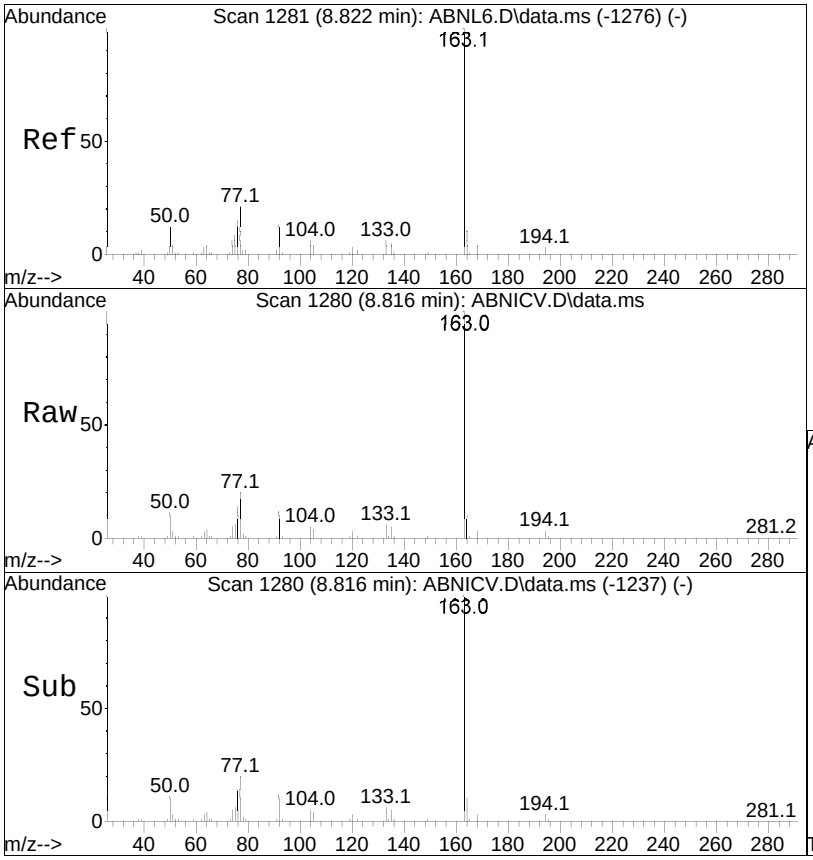


#49
1,3-Dinitrobenzene
Concen: 5.18 ug/ml
RT: 8.804 min Scan# 1278
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 33761

Ion	Ratio	Lower	Upper
168	100		
75	156.0	22.7	34.1#

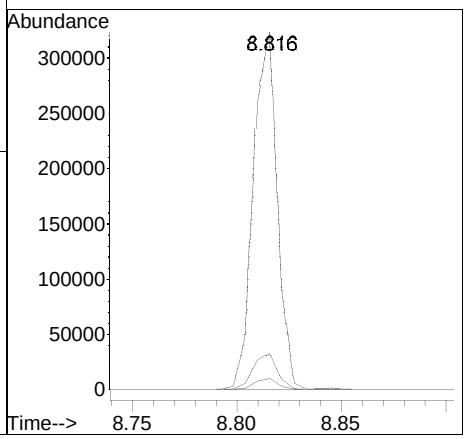


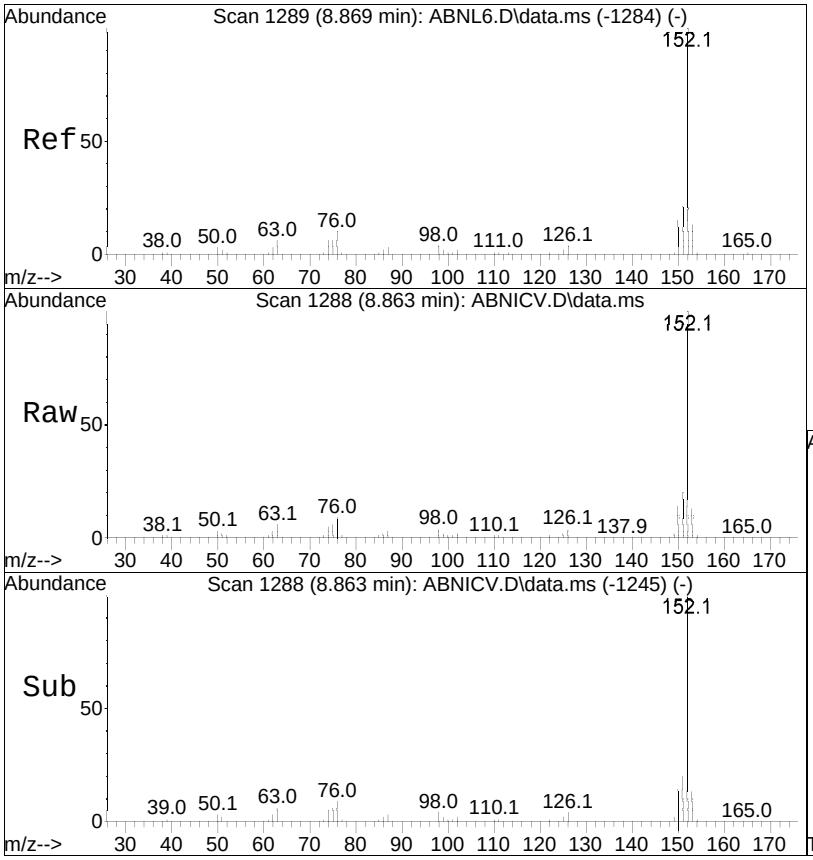


#50
Dimethyl phthalate
Concen: 5.18 ug/ml
RT: 8.816 min Scan# 1280
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:163 Resp: 254529

Ion	Ratio	Lower	Upper
163	100		
194	2.8	3.5	5.3#
164	10.3	7.9	11.9

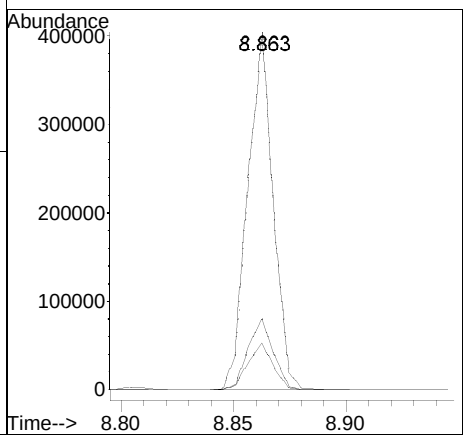


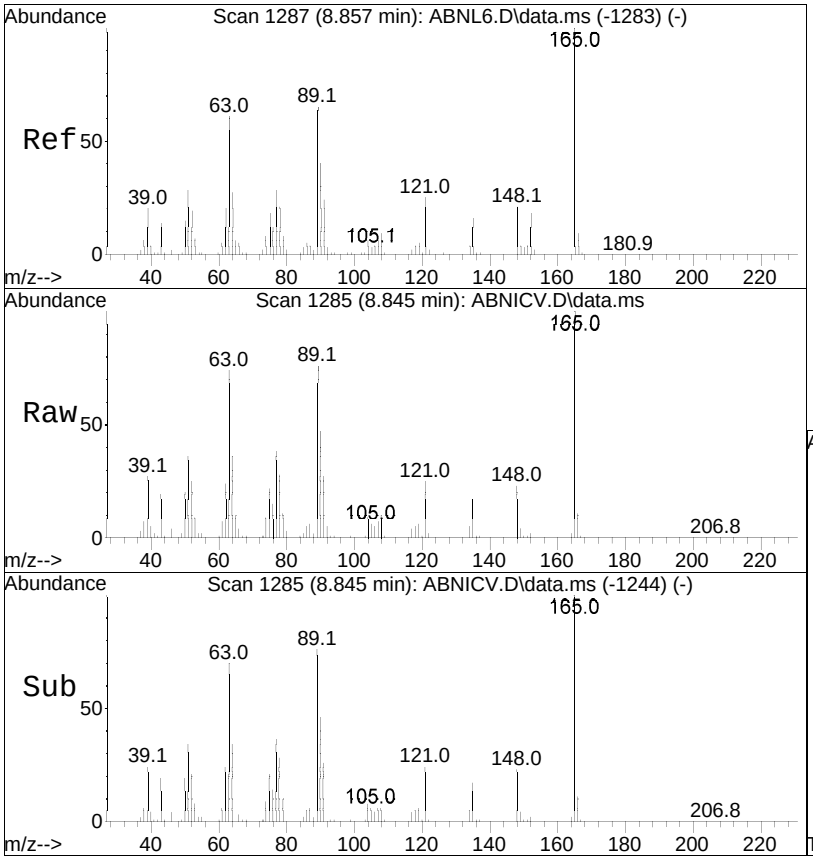


#51
Acenaphthylene
Concen: 5.41 ug/ml
RT: 8.863 min Scan# 1288
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:152 Resp: 312930

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.5	15.7

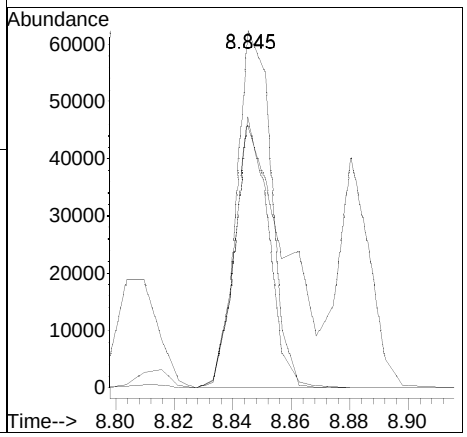


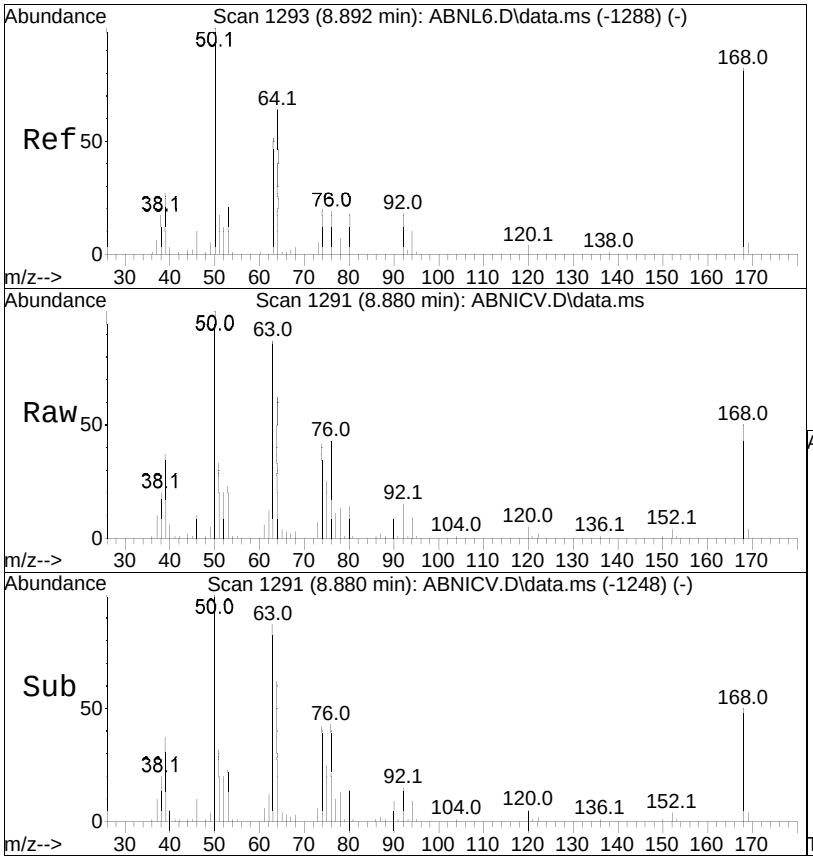


#52
2,6-Dinitrotoluene
Concen: 5.21 ug/ml
RT: 8.845 min Scan# 1285
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:165 Resp: 51382

Ion	Ratio	Lower	Upper
165	100		
89	73.0	54.2	81.2
63	107.2	64.2	96.2#

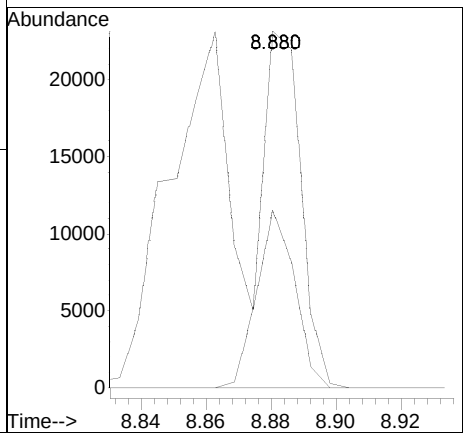


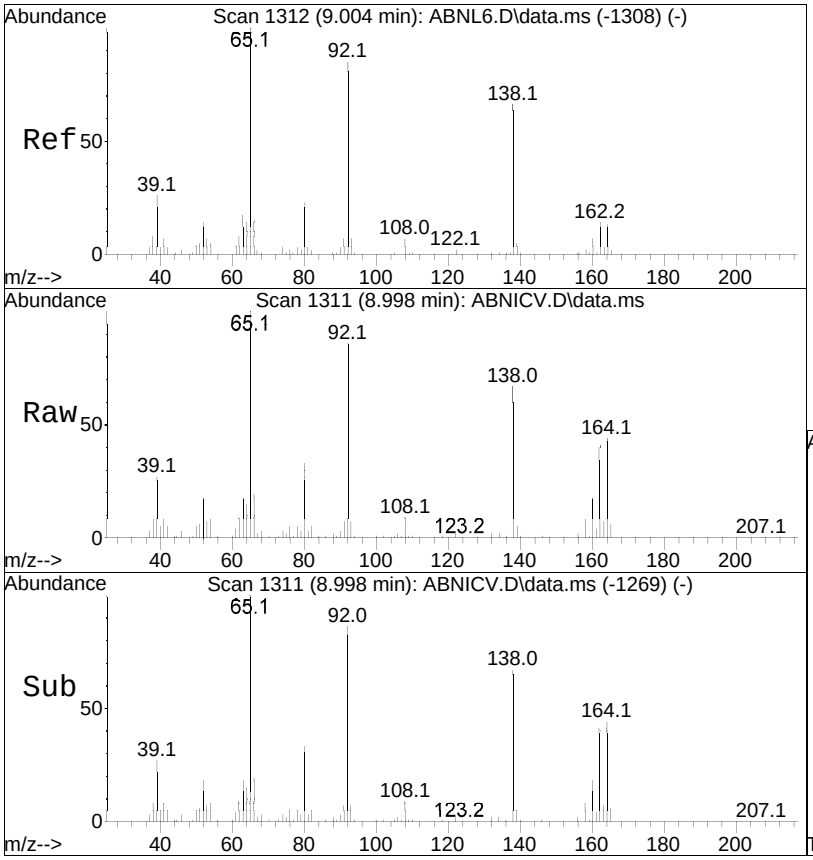


#53
1,2-Dinitrobenzene
Concen: 5.07 ug/ml
RT: 8.880 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 19683

Ion	Ratio	Lower	Upper
168	100		
75	151.7	30.9	46.3#

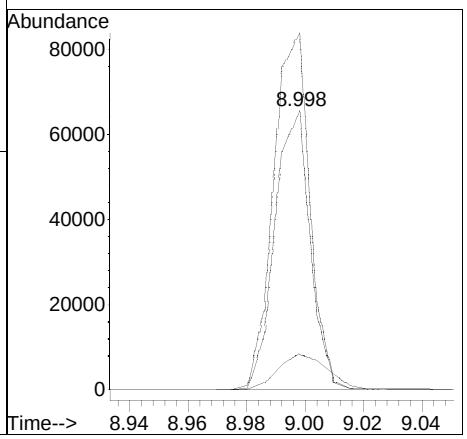


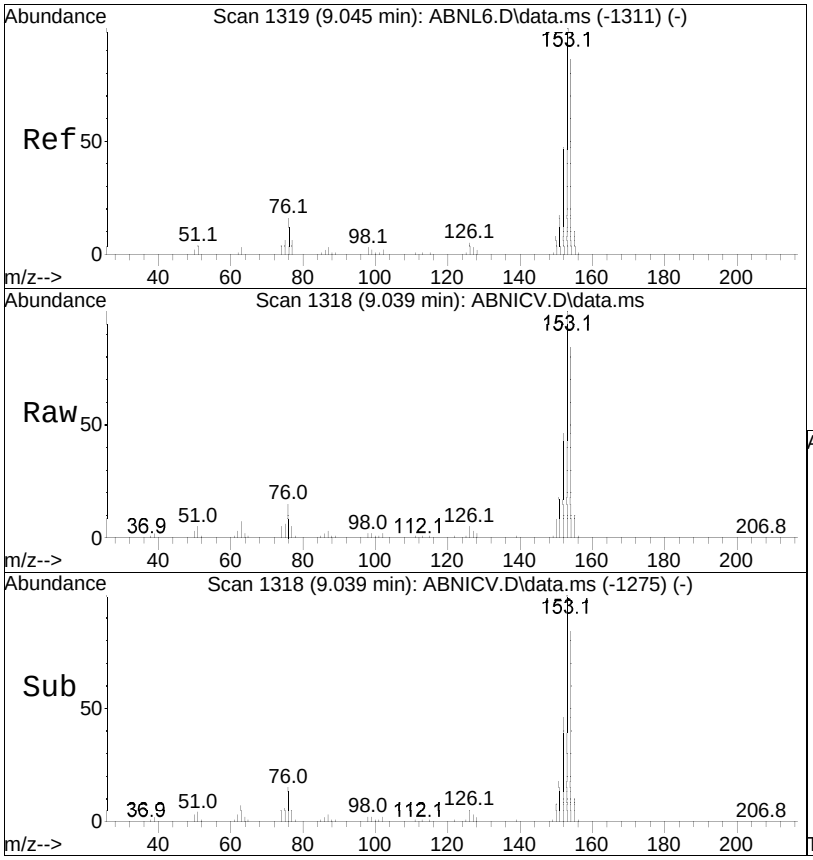


#63
3-Nitroaniline
Concen: 5.62 ug/ml
RT: 8.998 min Scan# 1311
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 54675

Ion	Ratio	Lower	Upper
138	100		
92	131.0	93.4	140.2
108	18.0	9.5	14.3#

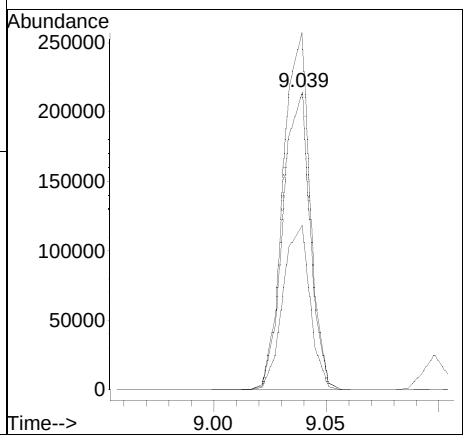


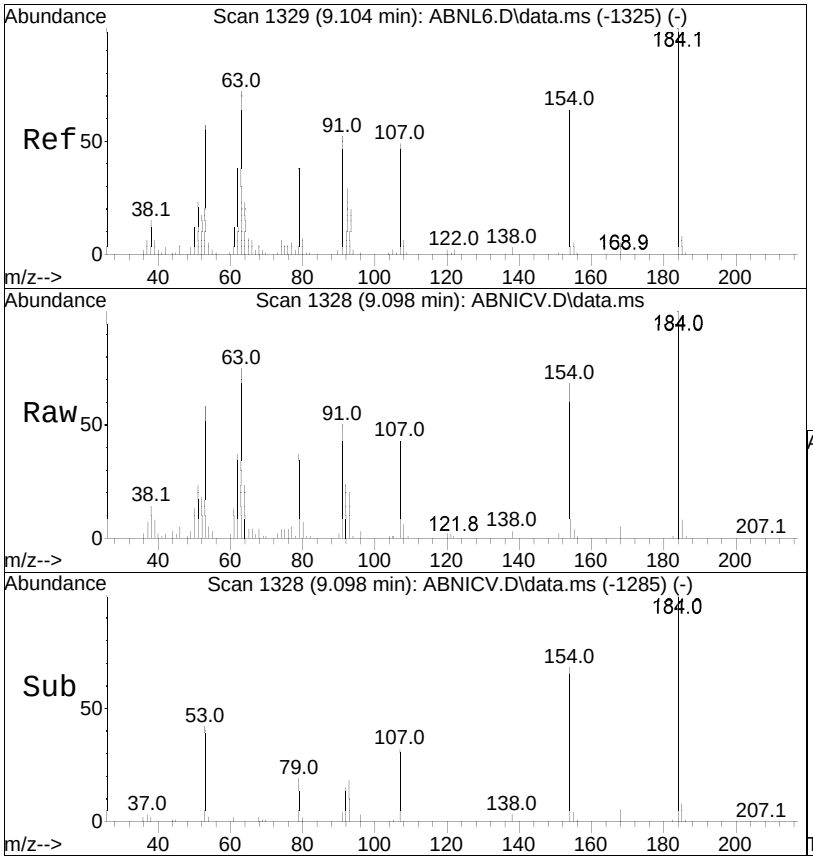


#64
Acenaphthene
Concen: 5.46 ug/ml
RT: 9.039 min Scan# 1318
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:154 Resp: 179537

Ion	Ratio	Lower	Upper
154	100		
153	118.3	85.3	127.9
152	55.4	41.4	62.0

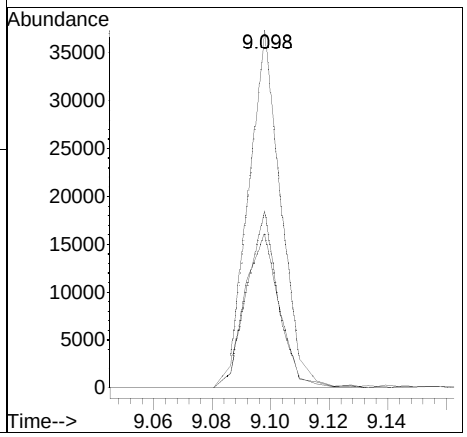


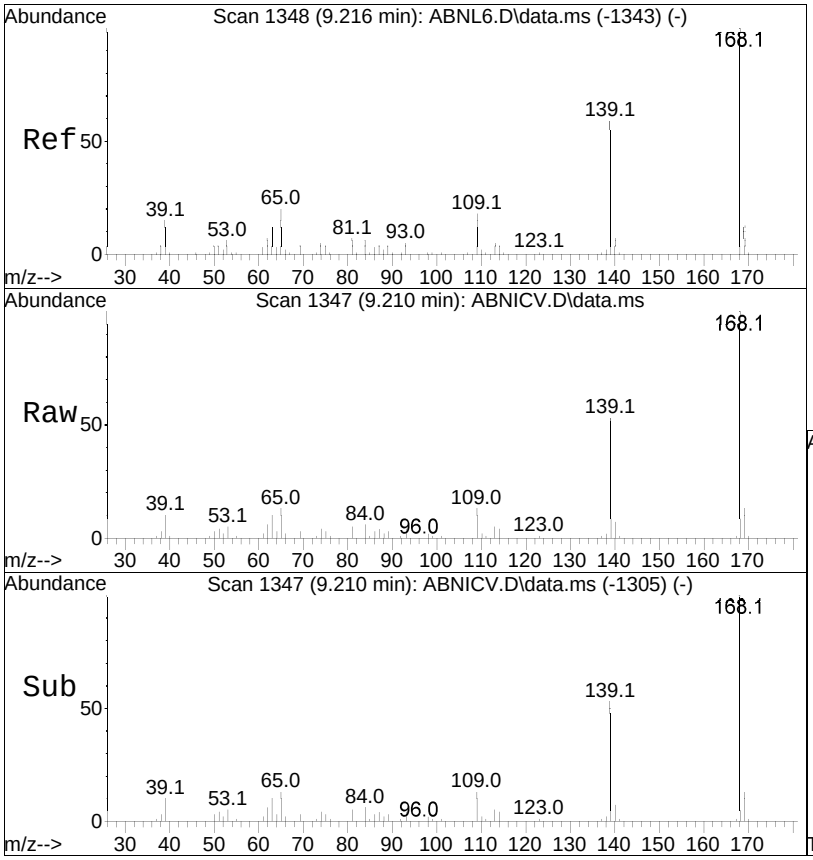


#65
2,4-Dinitrophenol
Concen: 4.70 ug/ml
RT: 9.098 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:184 Resp: 28601

Ion	Ratio	Lower	Upper
184	100		
107	47.0	37.7	56.5
91	47.8	46.3	69.5

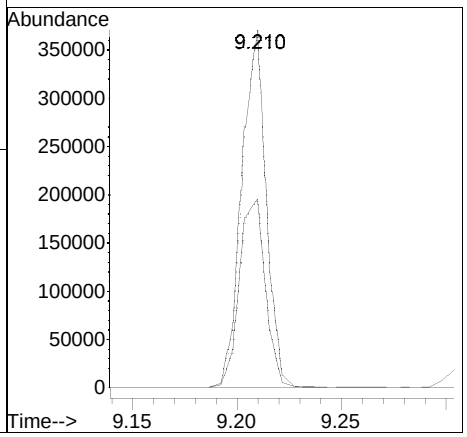


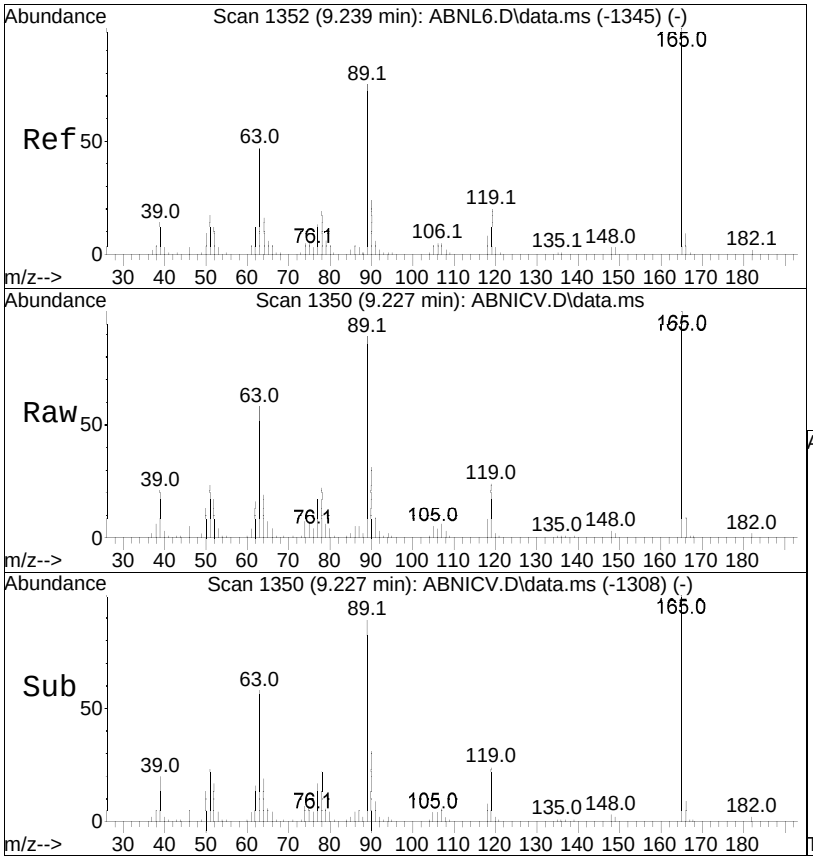


#66
Dibenzofuran
Concen: 5.15 ug/ml
RT: 9.210 min Scan# 1347
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:168 Resp: 296371

Ion	Ratio	Lower	Upper
168	100		
139	56.6	31.4	47.2#

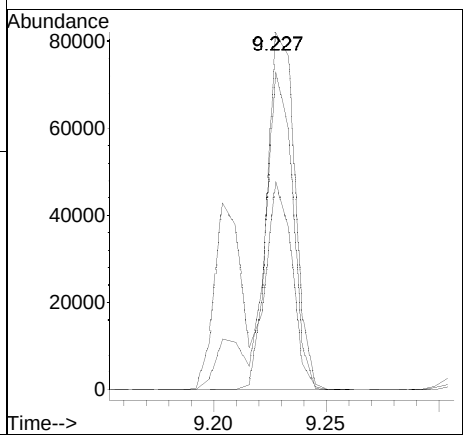


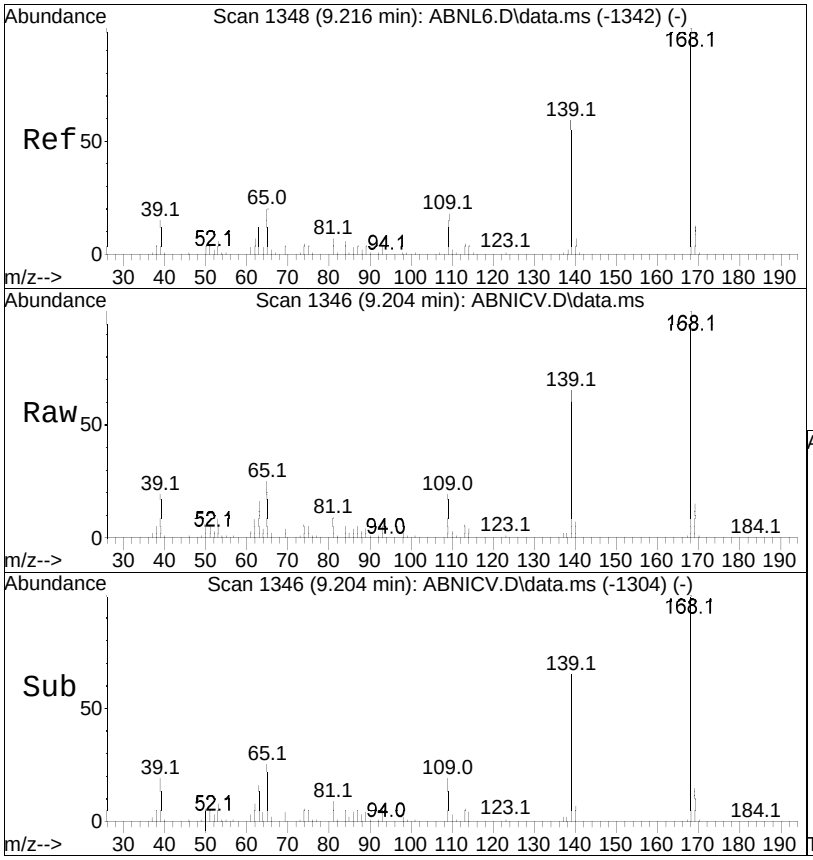


#67
2,4-Dinitrotoluene
Concen: 5.34 ug/ml
RT: 9.227 min Scan# 1350
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:165 Resp: 70591

Ion	Ratio	Lower	Upper
165	100		
89	99.0	72.0	108.0
63	54.9	52.7	79.1

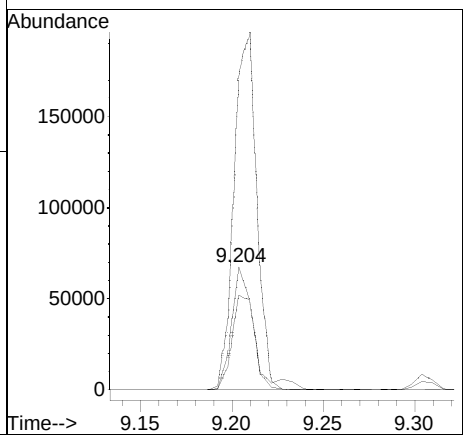


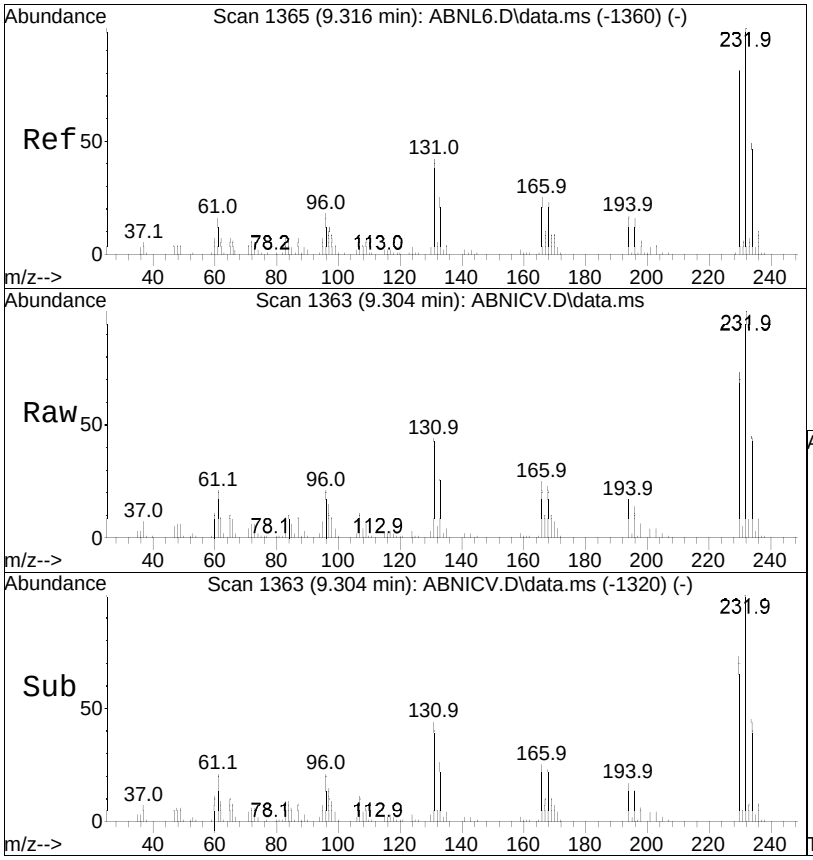


#68
4-Nitrophenol
Concen: 5.50 ug/ml
RT: 9.204 min Scan# 1346
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 65 Resp: 57342

Ion	Ratio	Lower	Upper
65	100		
109	78.0	47.4	71.2#
139	292.4	76.6	115.0#

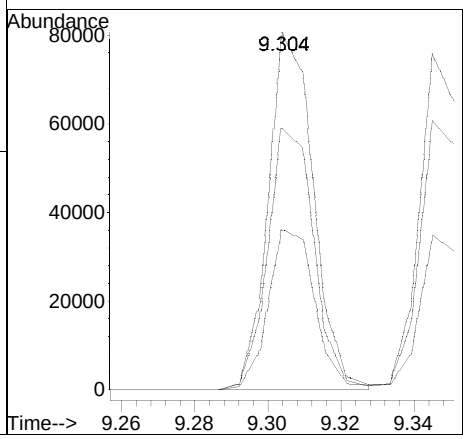


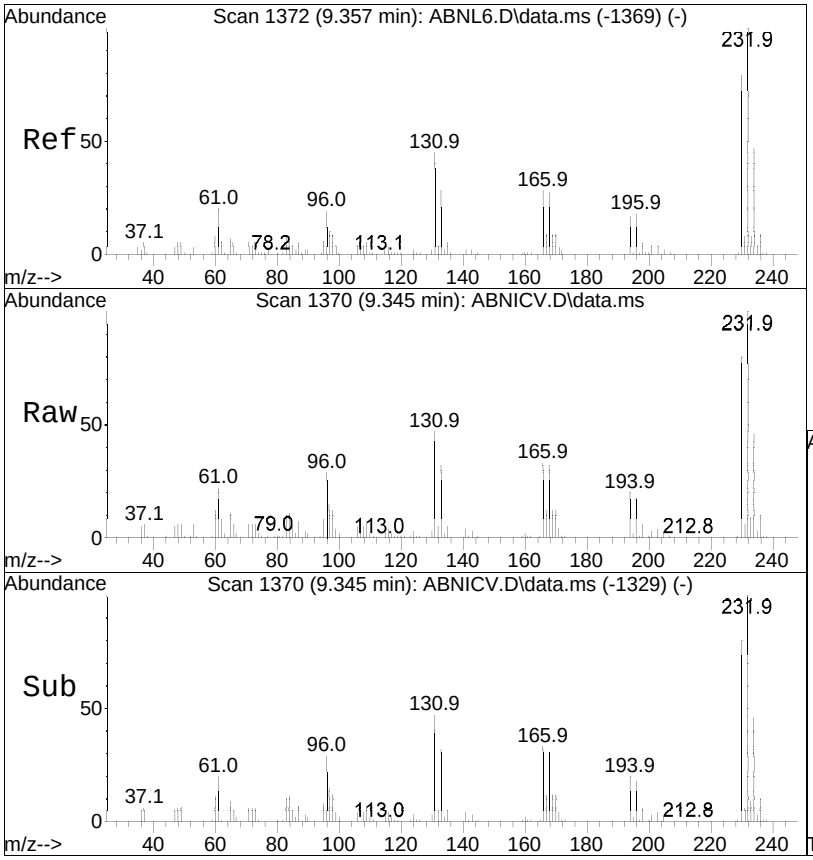


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.91 ug/ml
RT: 9.304 min Scan# 1363
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:232 Resp: 69156

Ion	Ratio	Lower	Upper
232	100		
230	75.2	64.2	96.4
234	46.5	38.1	57.1

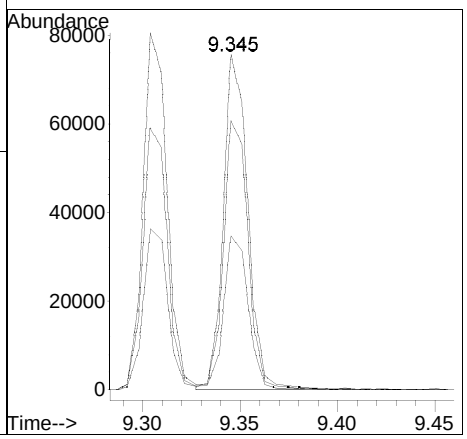


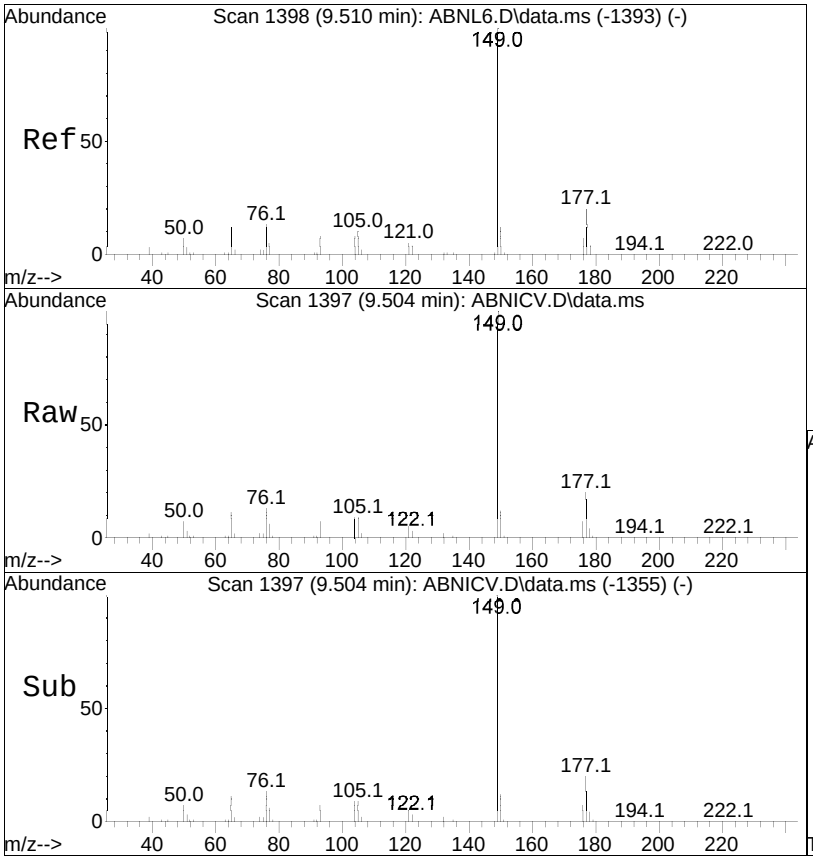


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.73 ug/ml
RT: 9.345 min Scan# 1370
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:232 Resp: 65816

Ion	Ratio	Lower	Upper
232	100		
230	82.0	61.8	92.8
234	47.1	36.2	54.2

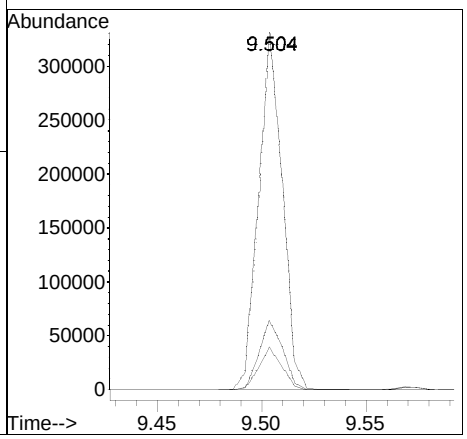


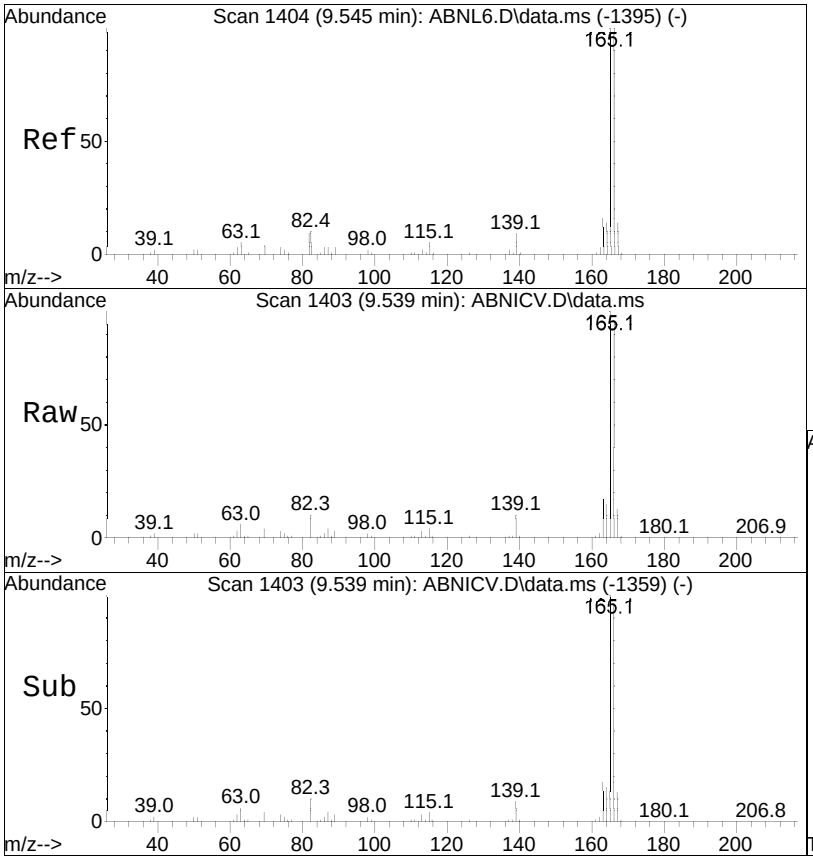


#71
Diethyl phthalate
Concen: 5.36 ug/ml
RT: 9.504 min Scan# 1397
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 257035

Ion	Ratio	Lower	Upper
149	100		
177	19.7	16.1	24.1
150	11.7	9.4	14.2

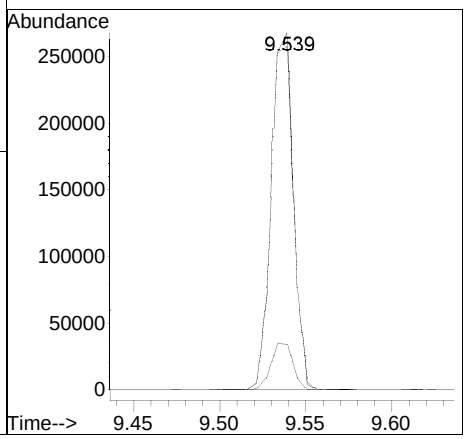


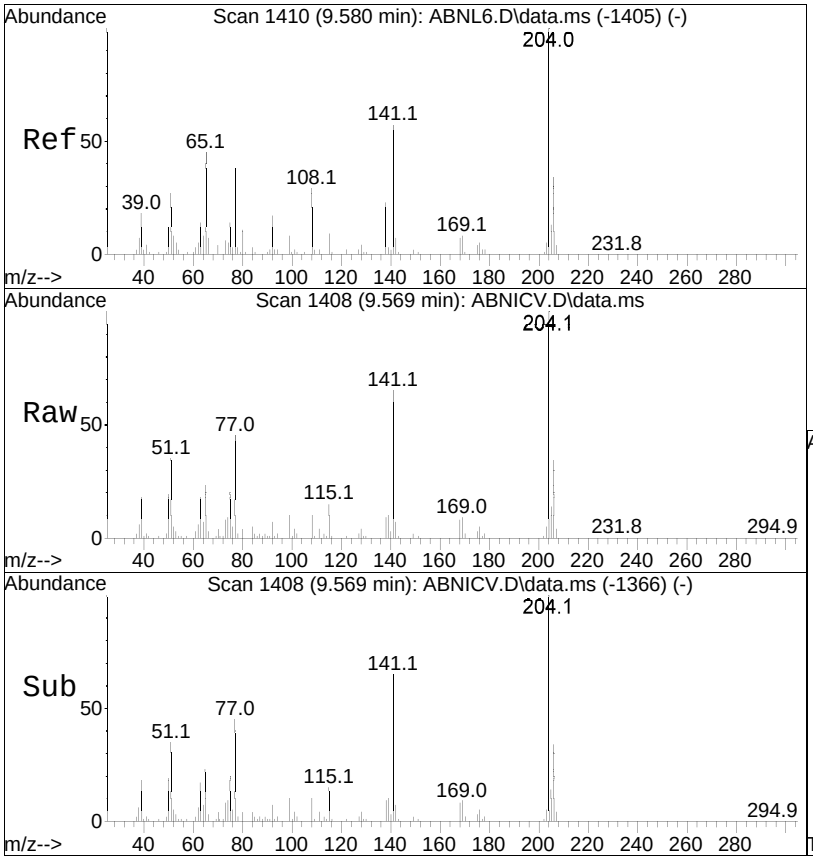


#72
Fluorene
Concen: 5.24 ug/ml
RT: 9.539 min Scan# 1403
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:166 Resp: 237323

Ion	Ratio	Lower	Upper
166	100		
165	101.2	76.2	114.2
167	13.2	10.6	15.8

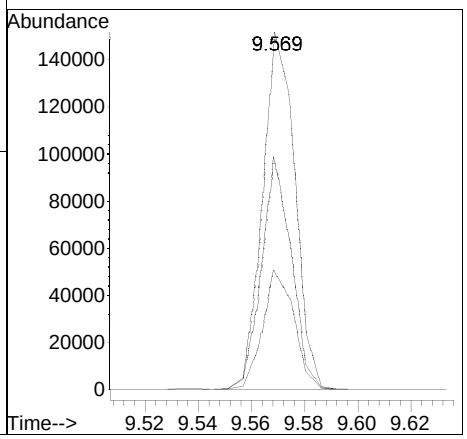


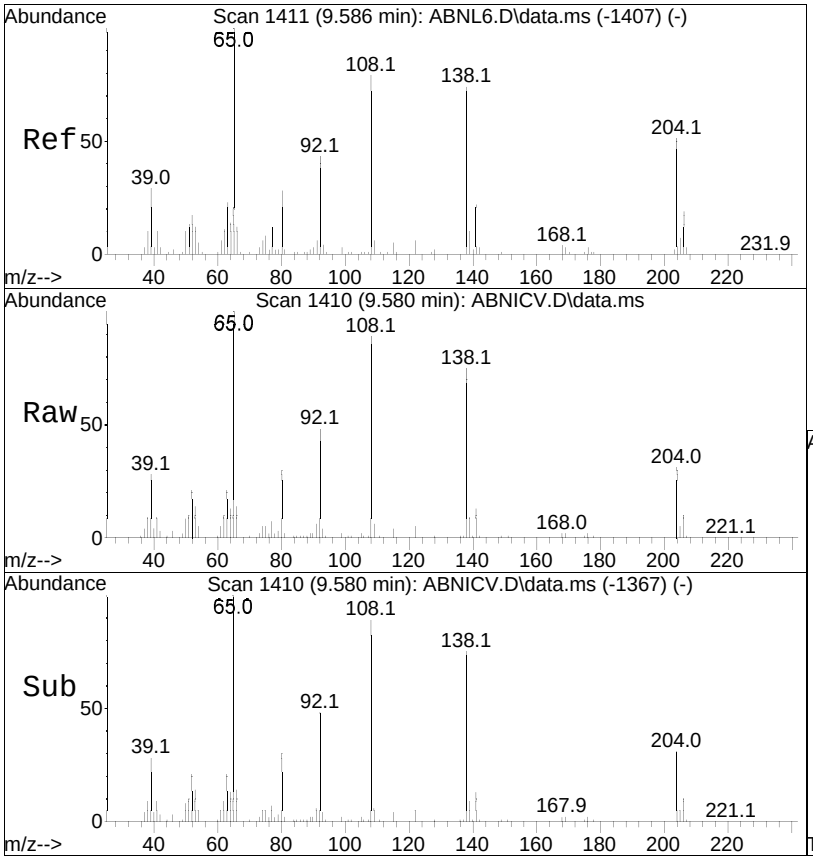


#73
4-Chlorophenyl phenyl ether
Concen: 5.33 ug/ml
RT: 9.569 min Scan# 1408
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:204 Resp: 126901

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	60.1	53.6	80.4

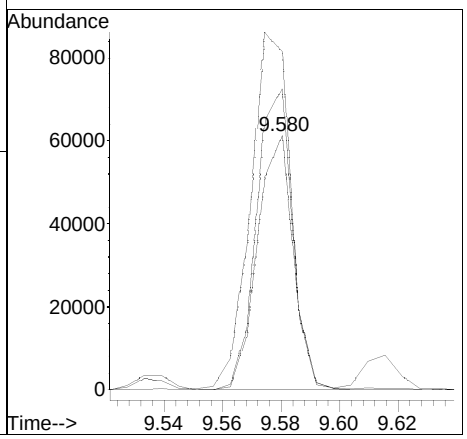


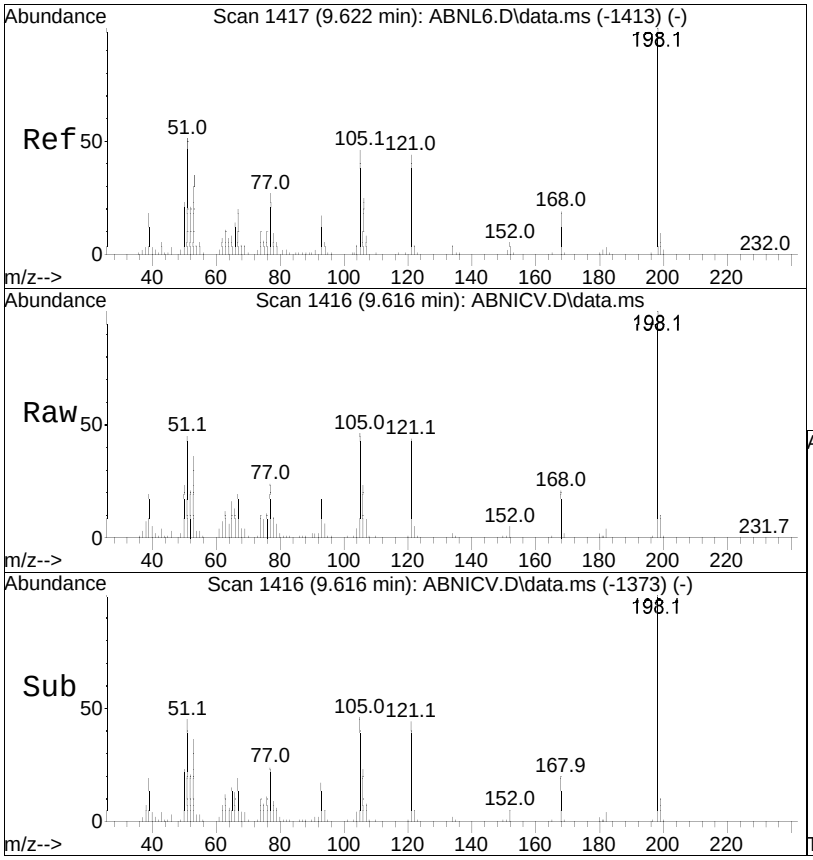


#74
4-Nitroaniline
Concen: 5.45 ug/ml
RT: 9.580 min Scan# 1410
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:138 Resp: 51943

Ion	Ratio	Lower	Upper
138	100		
108	118.8	52.1	78.1#
65	156.1	115.0	172.6

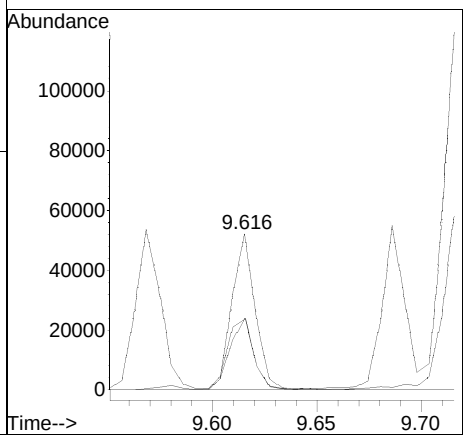


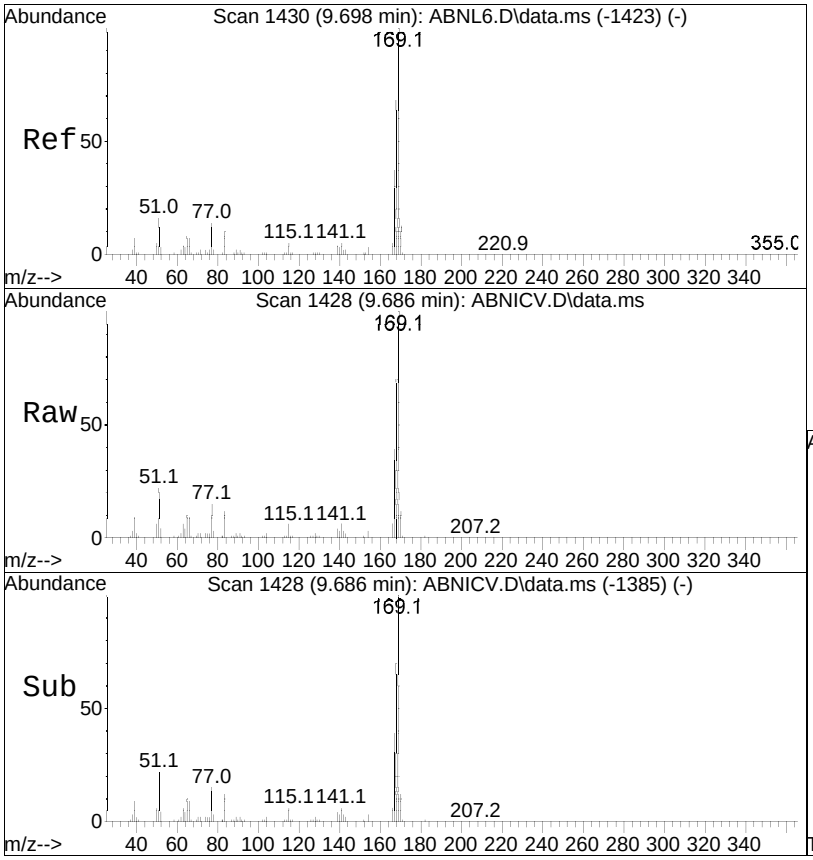


#75
4,6-Dinitro-o-cresol
Concen: 5.46 ug/ml
RT: 9.616 min Scan# 1416
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:198 Resp: 40670

Ion	Ratio	Lower	Upper
198	100		
51	50.4	76.0	114.0#
105	47.1	45.6	68.4

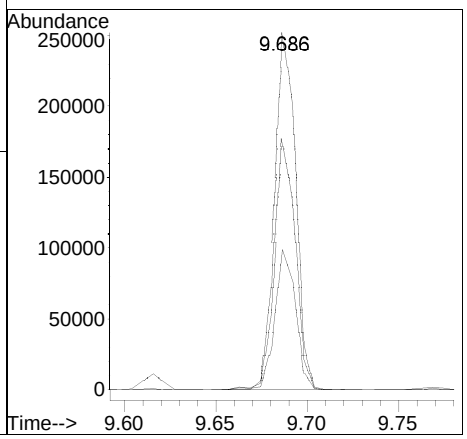


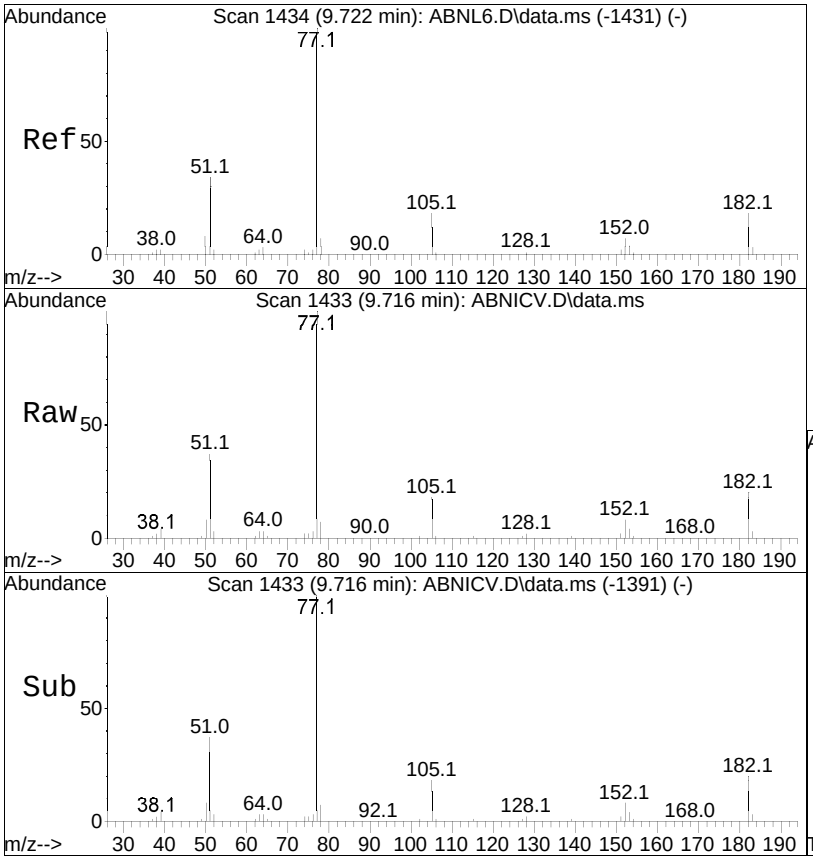


#76
NDPA/DPA
Concen: 5.38 ug/ml
RT: 9.686 min Scan# 1428
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:169 Resp: 200321

Ion	Ratio	Lower	Upper
169	100		
168	69.9	54.0	81.0
167	39.4	28.6	42.8

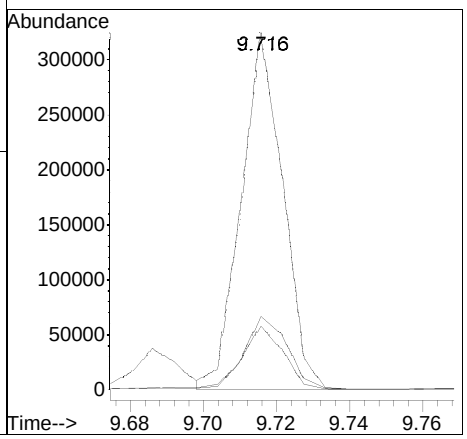


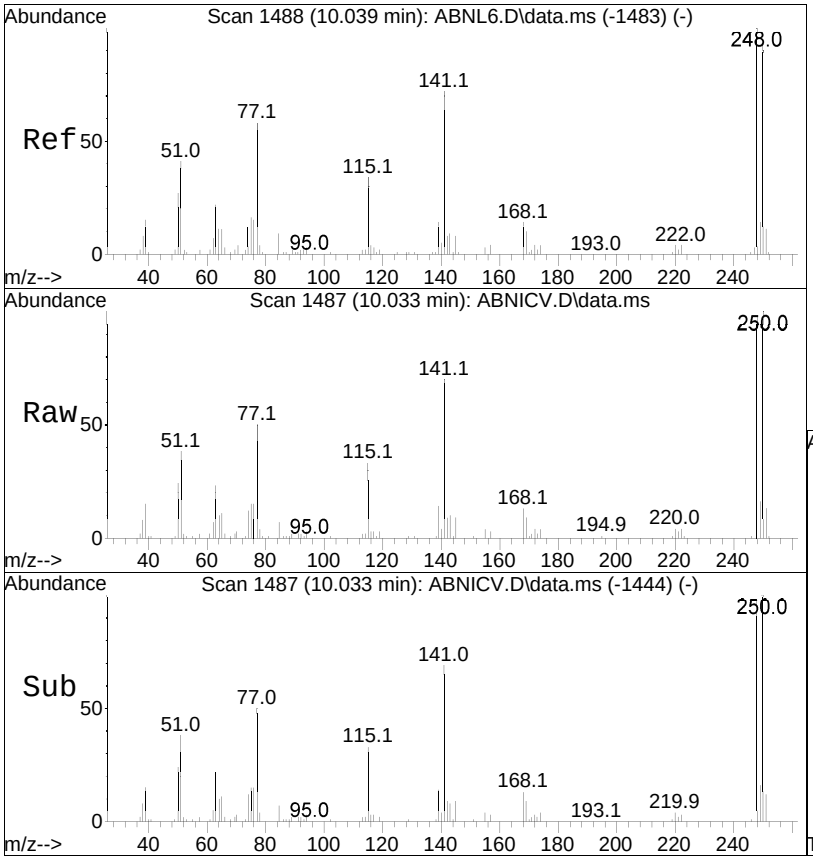


#77
Azobenzene
Concen: 5.35 ug/ml
RT: 9.716 min Scan# 1433
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion: 77 Resp: 253969

Ion	Ratio	Lower	Upper
77	100		
182	22.1	17.4	26.2
105	18.8	15.4	23.2

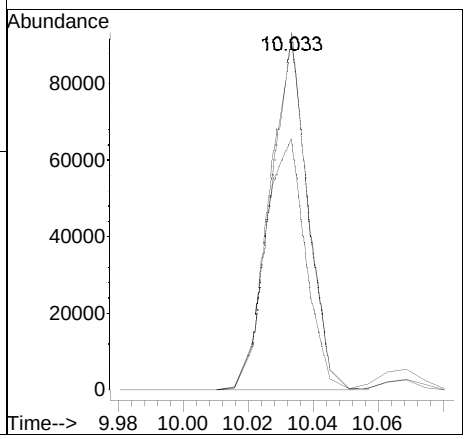


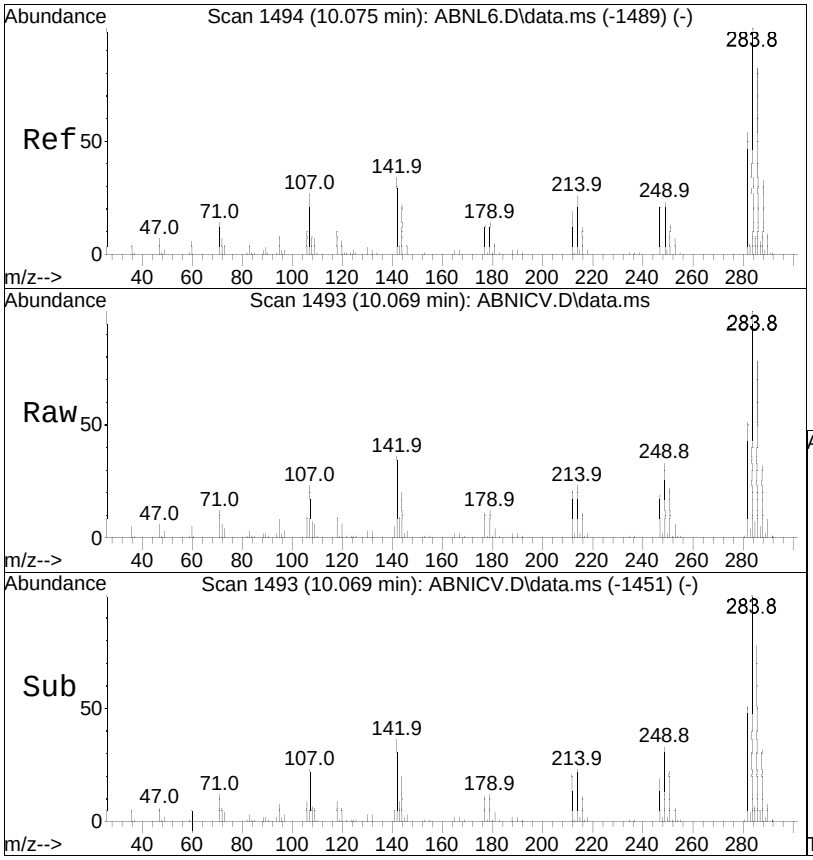


#79
4-Bromophenyl phenyl ether
Concen: 5.23 ug/ml
RT: 10.033 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:248 Resp: 74105

Ion	Ratio	Lower	Upper
248	100		
141	76.2	76.6	114.8#
250	97.7	77.3	115.9

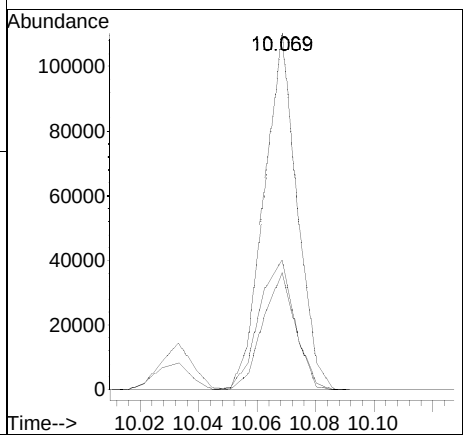


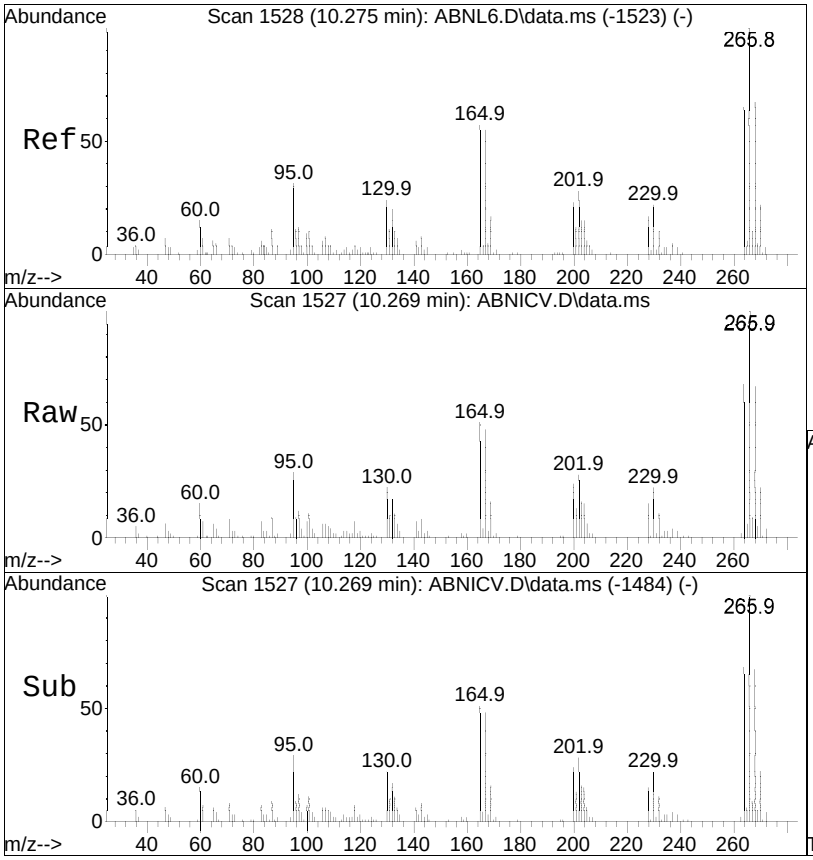


#80
Hexachlorobenzene
Concen: 5.28 ug/ml
RT: 10.069 min Scan# 1493
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:284 Resp: 86665

Ion	Ratio	Lower	Upper
284	100		
142	39.4	41.9	62.9#
249	33.1	24.1	36.1

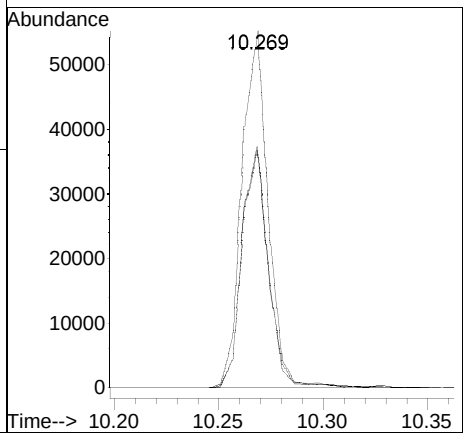


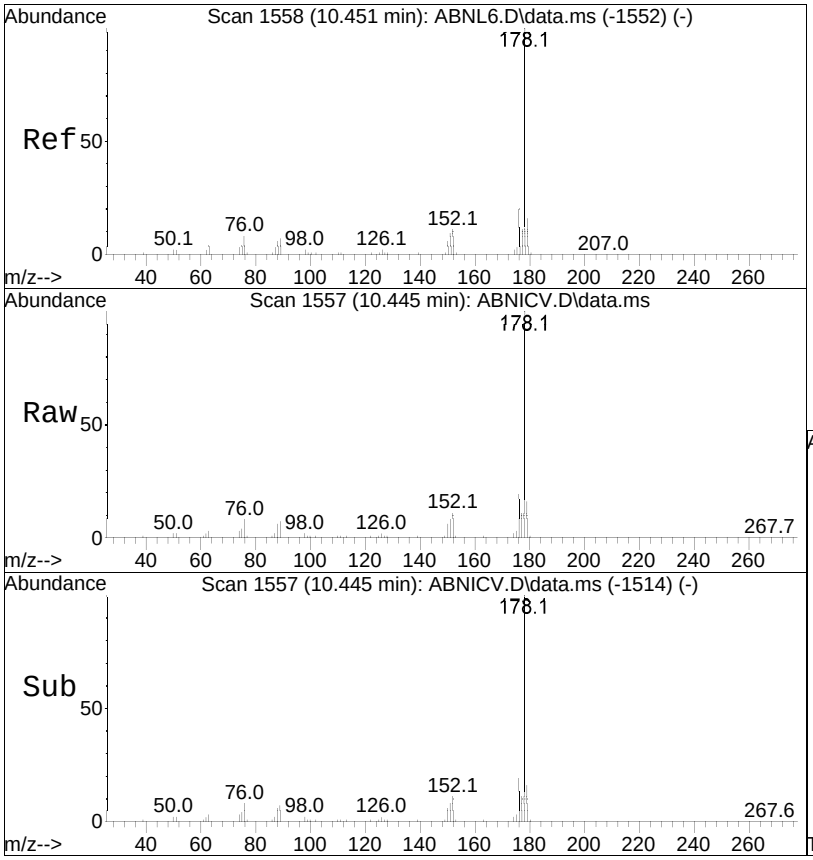


#81
Pentachlorophenol
Concen: 5.00 ug/ml
RT: 10.269 min Scan# 1527
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:266 Resp: 47842

Ion	Ratio	Lower	Upper
266	100		
264	68.7	49.7	74.5
268	67.6	50.5	75.7

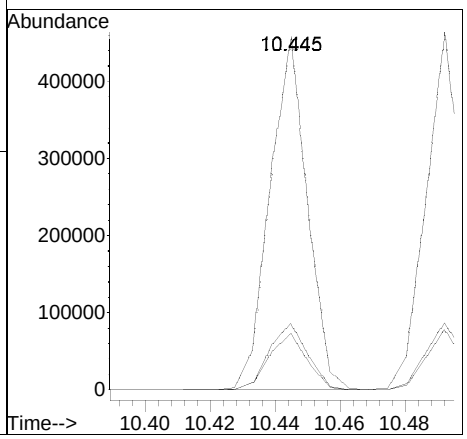


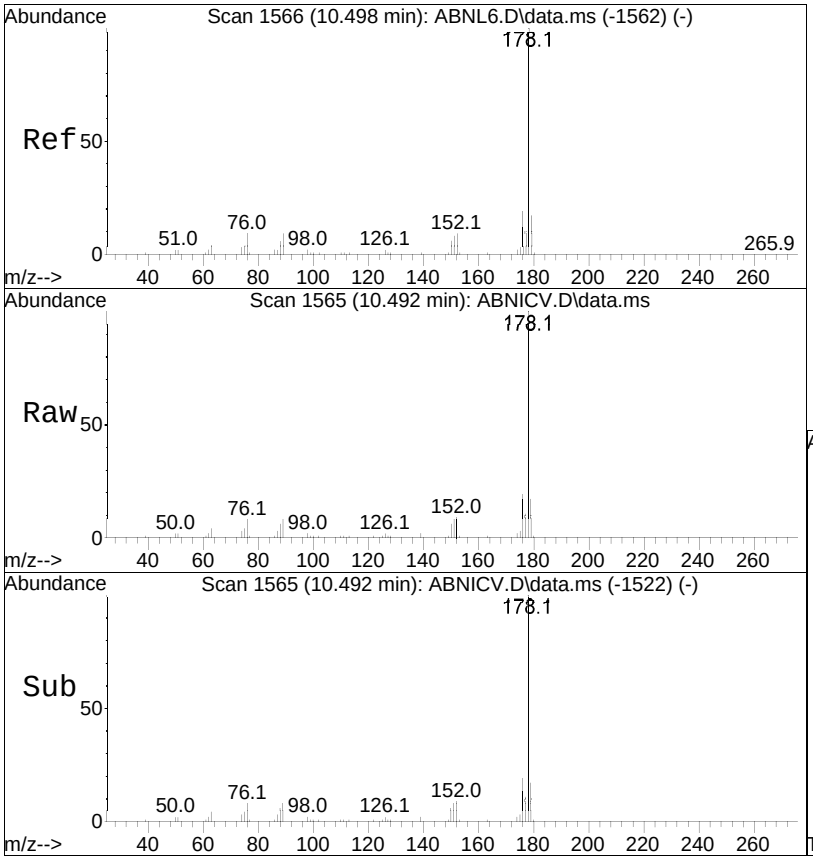


#88
Phenanthrene
Concen: 5.26 ug/ml
RT: 10.445 min Scan# 1557
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:178 Resp: 364896

Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.2	18.2
176	19.3	15.4	23.2

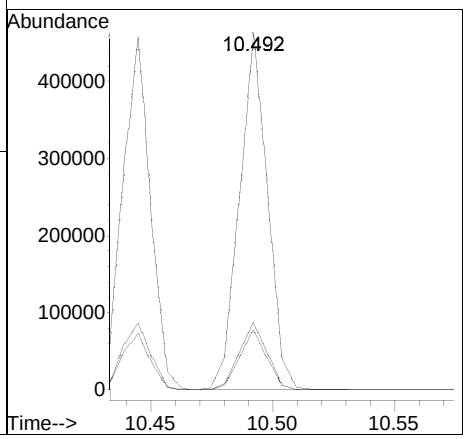


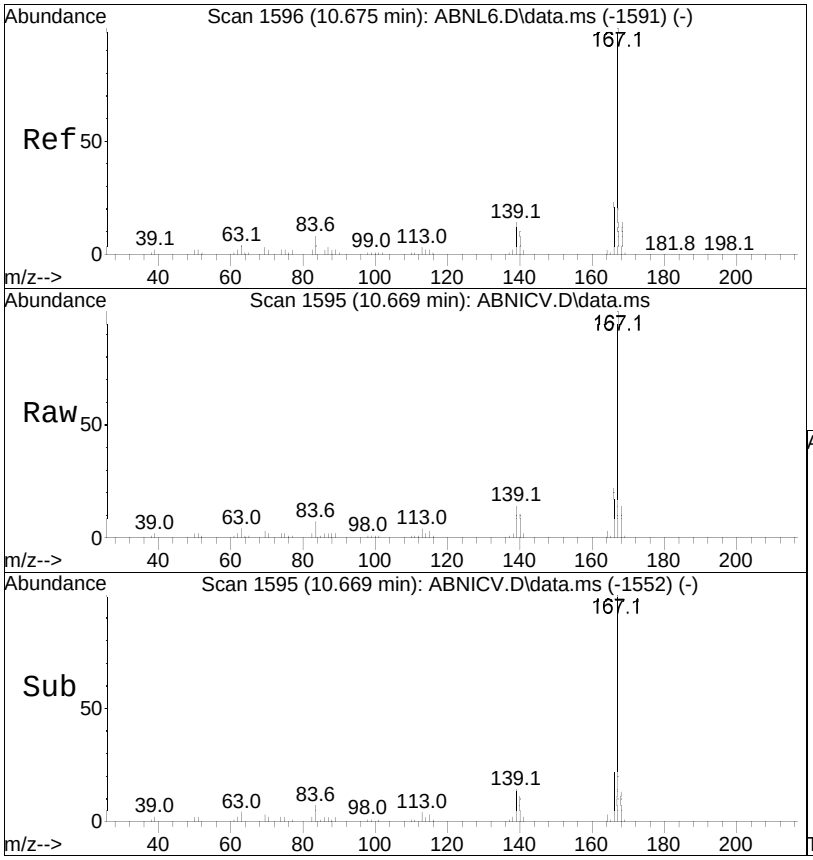


#89
Anthracene
Concen: 5.40 ug/ml
RT: 10.492 min Scan# 1565
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:178 Resp: 370163

Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.0	18.0
176	18.8	14.6	22.0

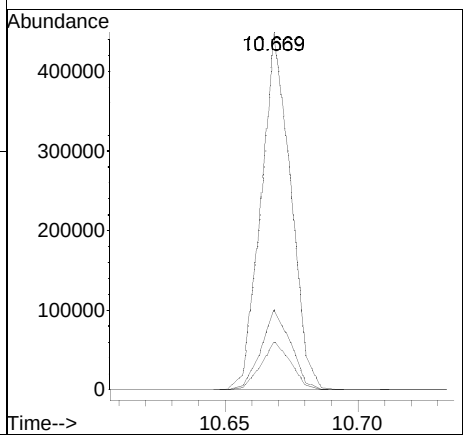


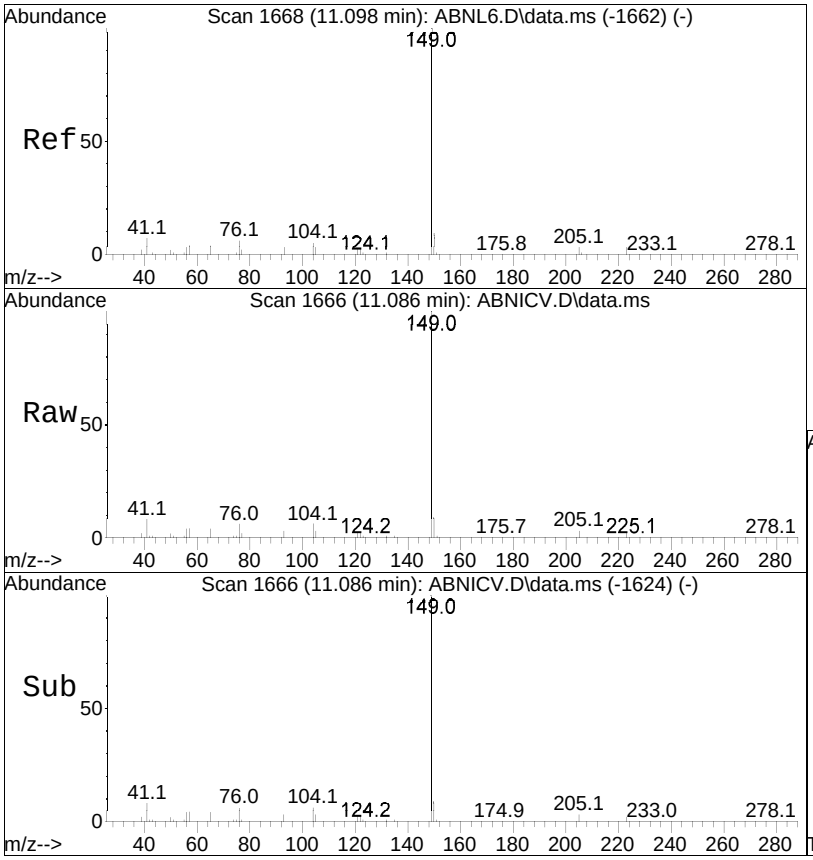


#90
Carbazole
Concen: 5.47 ug/ml
RT: 10.669 min Scan# 1595
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:167 Resp: 343325

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.6	17.4	26.0

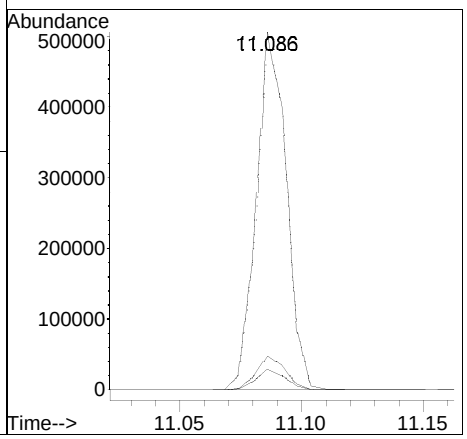


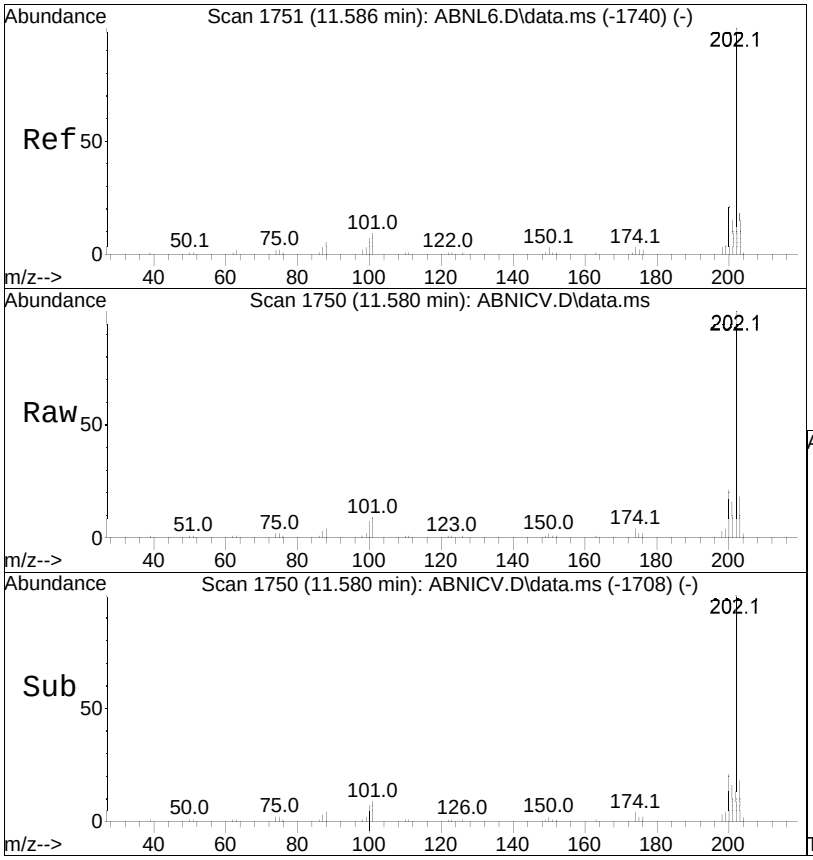


#91
Di-n-butylphthalate
Concen: 5.56 ug/ml
RT: 11.086 min Scan# 1666
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 425422

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.8	4.5	6.7

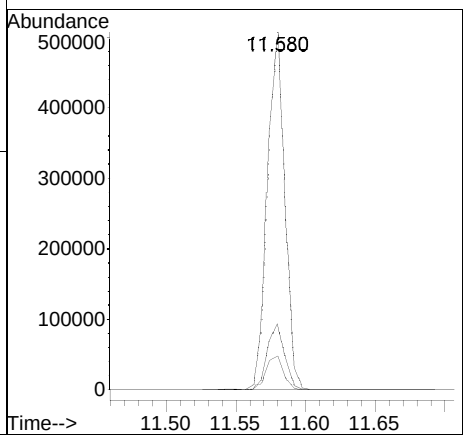


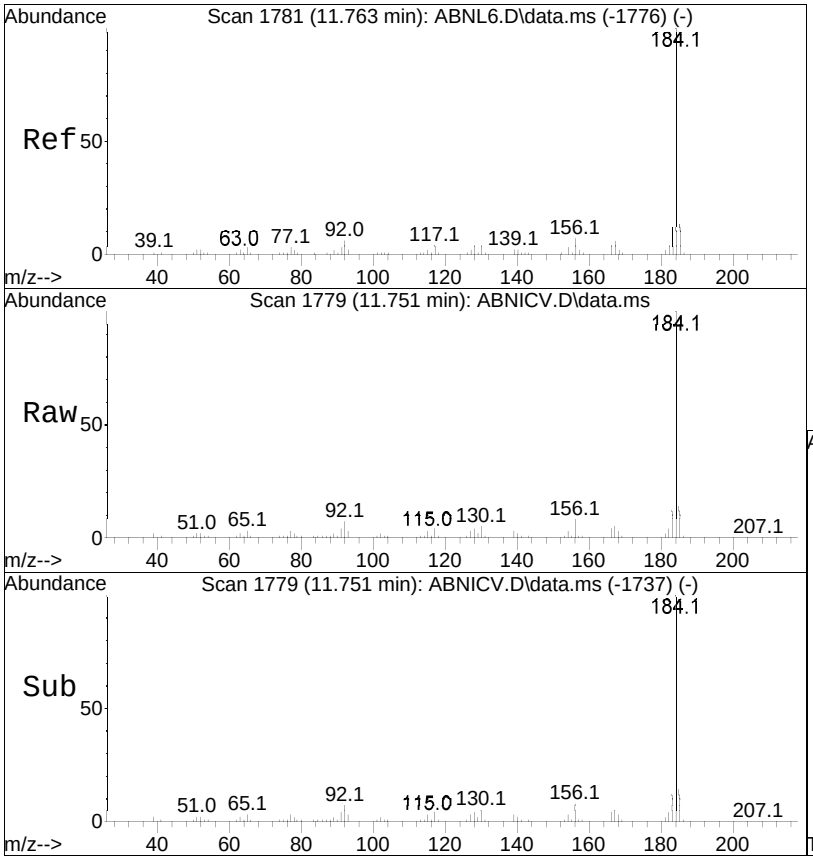


#92
Fluoranthene
Concen: 5.48 ug/ml
RT: 11.580 min Scan# 1750
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:202 Resp: 435270

Ion	Ratio	Lower	Upper
202	100		
101	9.7	13.5	20.3#
203	18.5	13.6	20.4

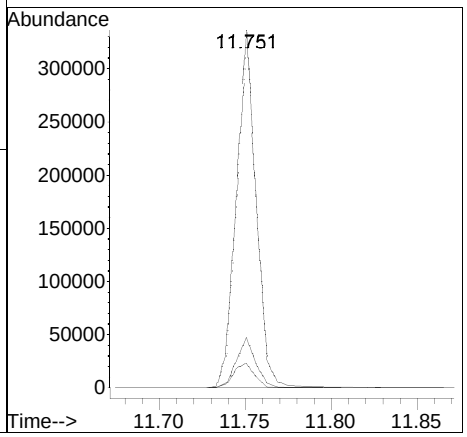


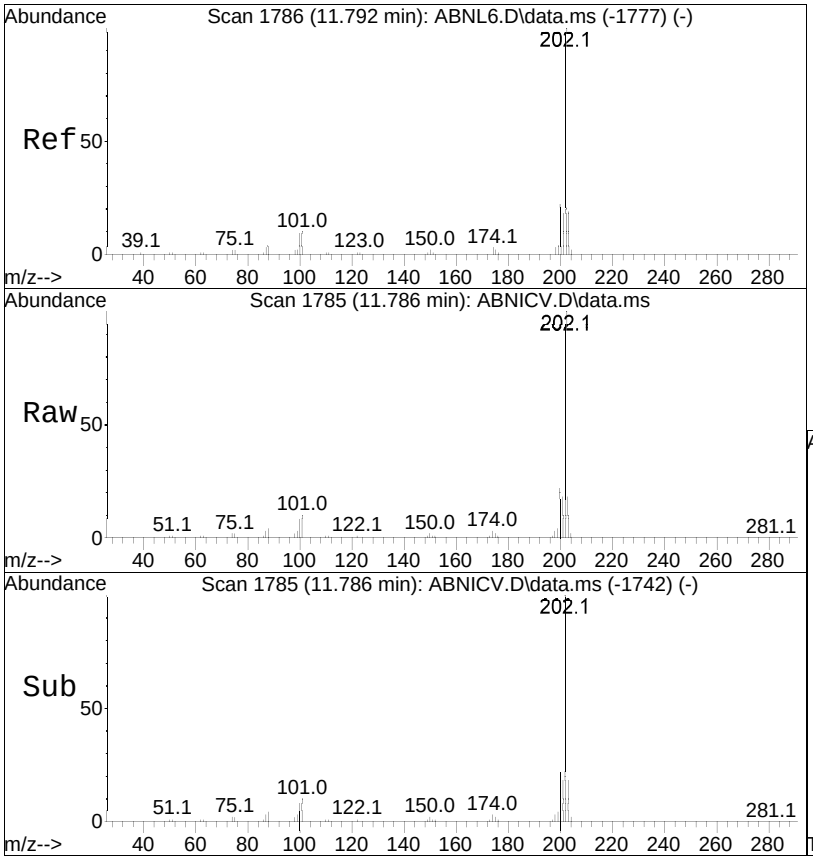


#93
Benzidine
Concen: 5.79 ug/ml
RT: 11.751 min Scan# 1779
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:184 Resp: 263663

Ion	Ratio	Lower	Upper
184	100		
92	7.6	9.1	13.7#
185	14.2	11.1	16.7

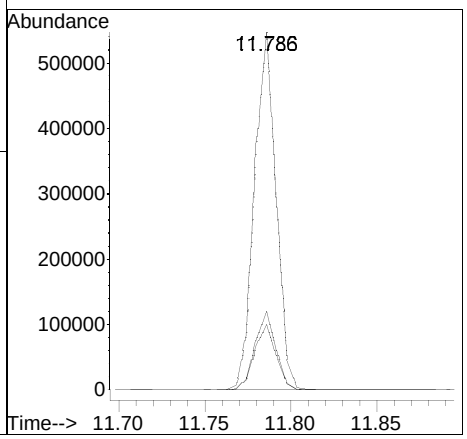


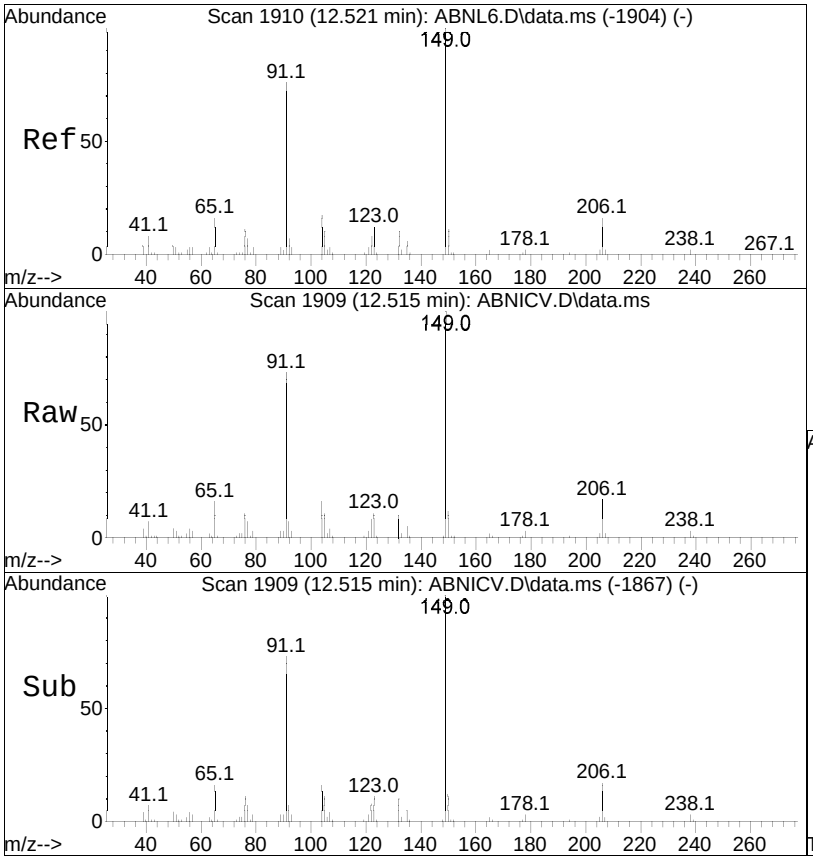


#94
Pyrene
Concen: 5.62 ug/ml
RT: 11.786 min Scan# 1785
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:202 Resp: 470653

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	18.3	14.2	21.4

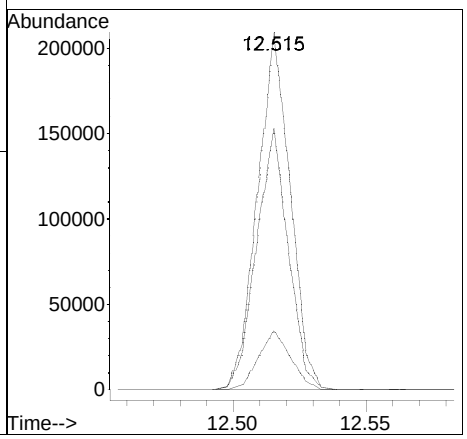


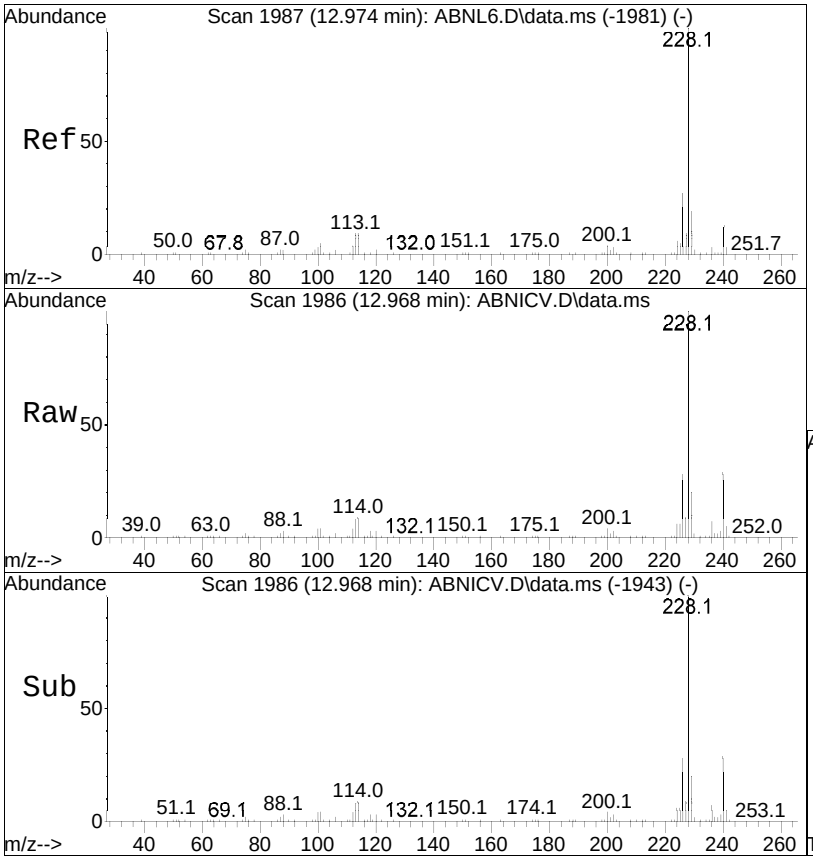


#96
Butyl benzyl phthalate
Concen: 5.43 ug/ml
RT: 12.515 min Scan# 1909
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 176719

Ion	Ratio	Lower	Upper
149	100		
91	71.3	63.3	94.9
206	16.3	13.9	20.9

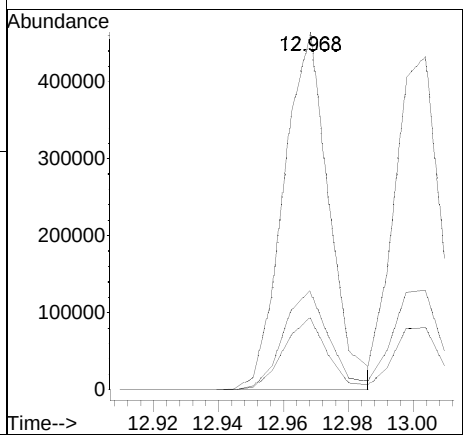


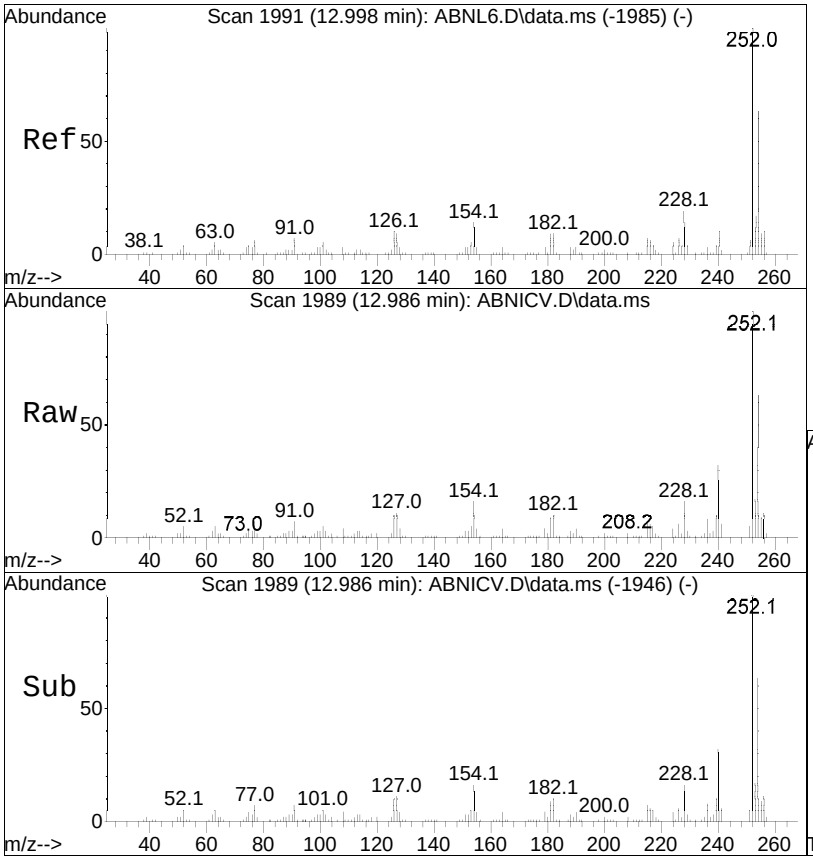


#104
Benzo(a)anthracene
Concen: 5.53 ug/ml
RT: 12.968 min Scan# 1986
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:228 Resp: 451936

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	19.5	15.6	23.4

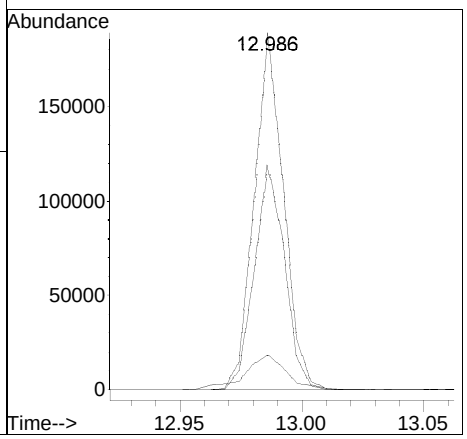


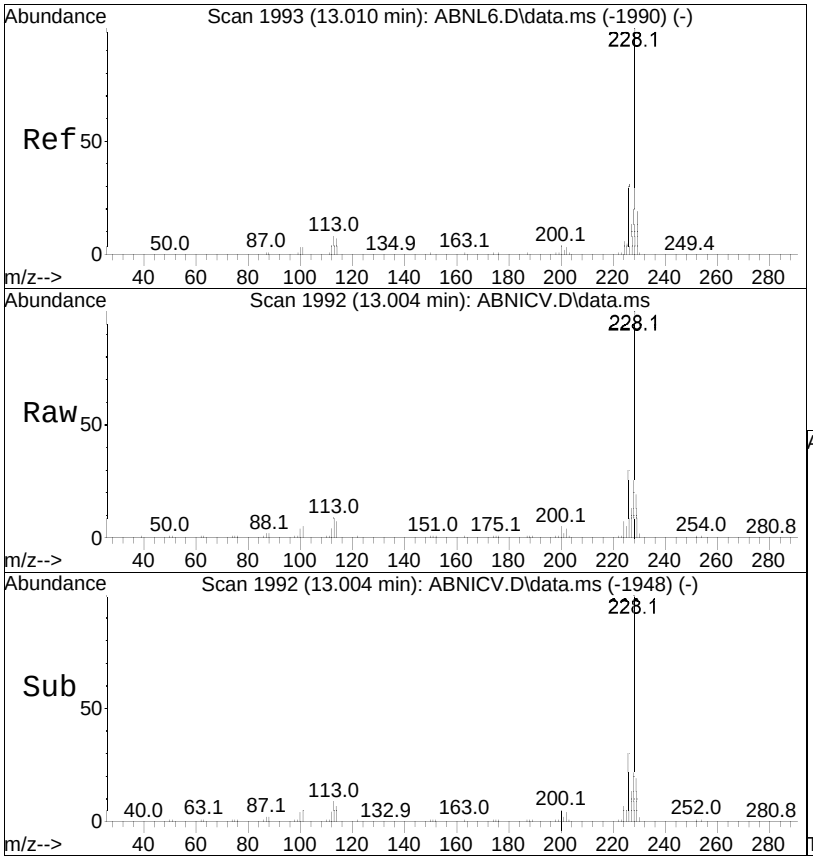


#105
3,3'-Dichlorobenzidine
Concen: 5.59 ug/ml
RT: 12.986 min Scan# 1989
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 157325

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	65.6	51.2	76.8

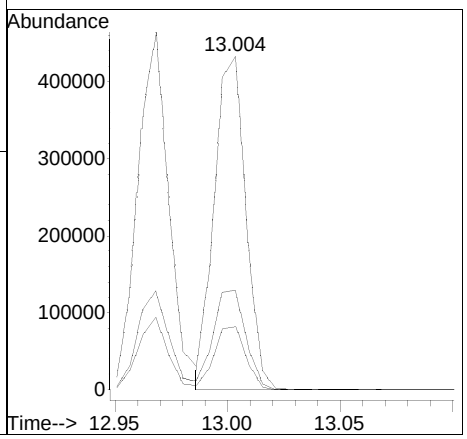


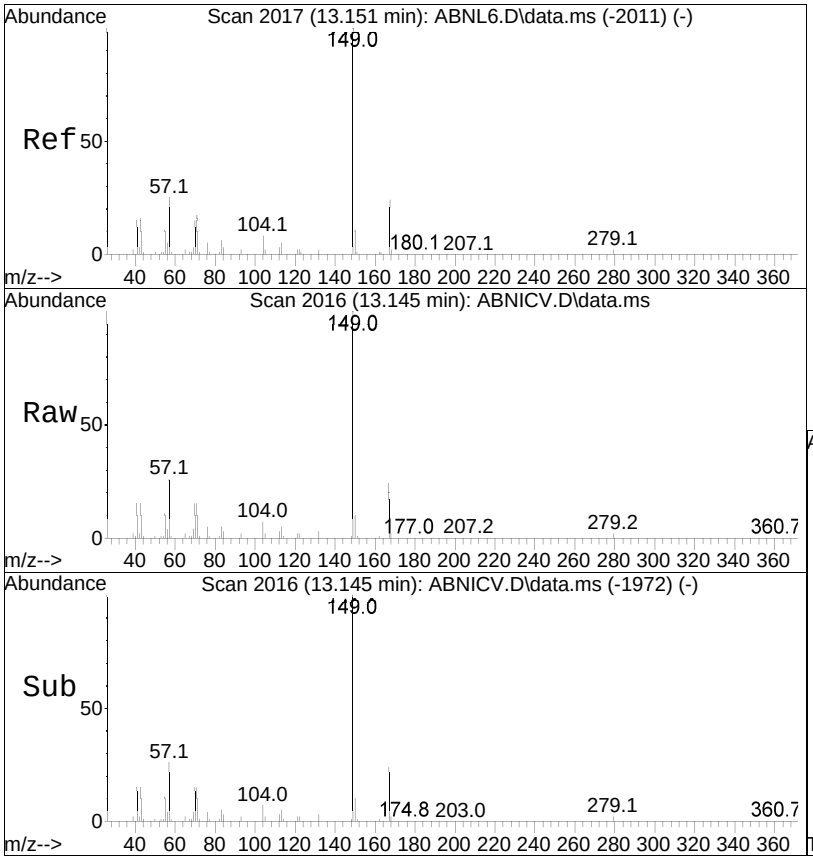


#106
Chrysene
Concen: 5.21 ug/ml
RT: 13.004 min Scan# 1992
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:228 Resp: 420177

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.0	36.0
229	19.0	15.8	23.8

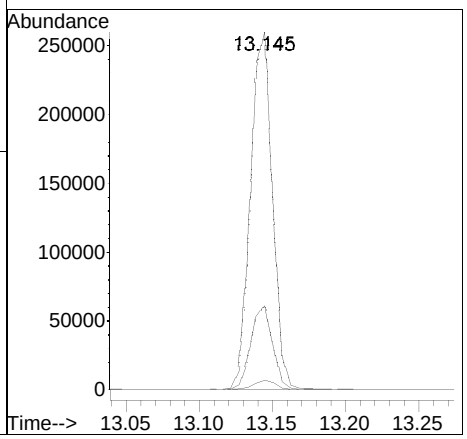


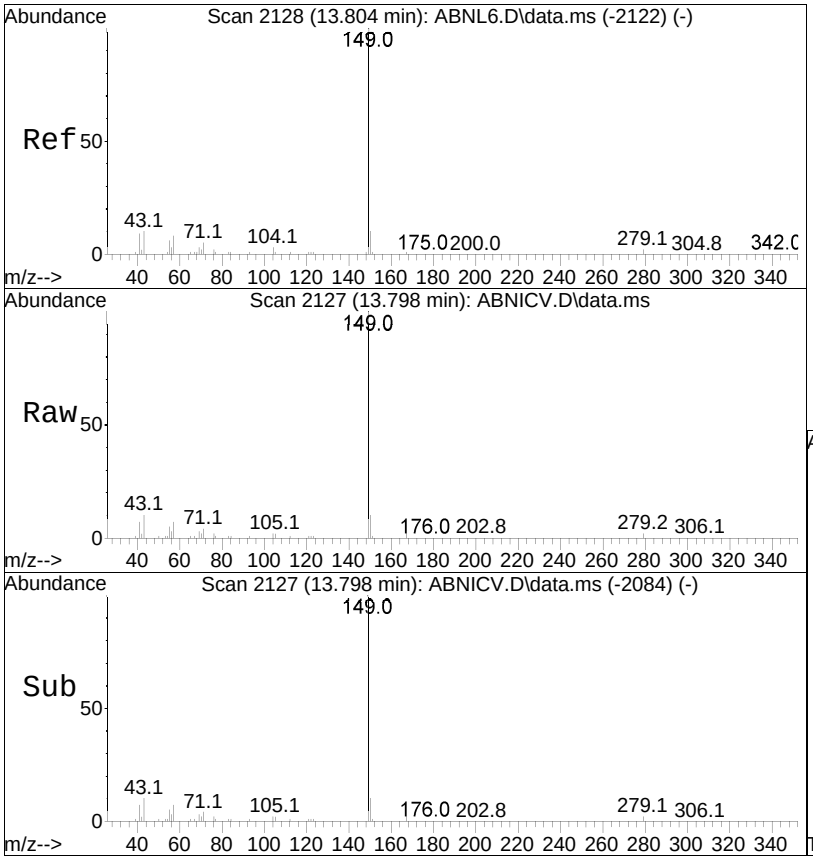


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.52 ug/ml
RT: 13.145 min Scan# 2016
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 267105

Ion	Ratio	Lower	Upper
149	100		
167	23.3	22.1	33.1
279	2.4	3.0	4.4#

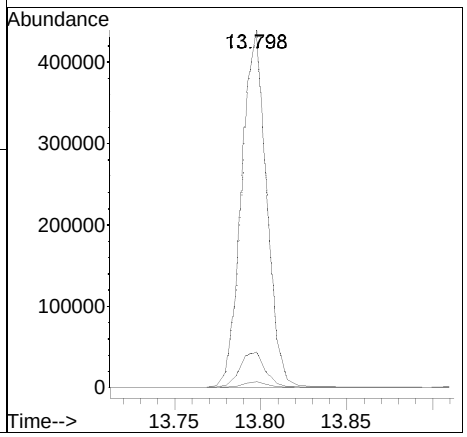


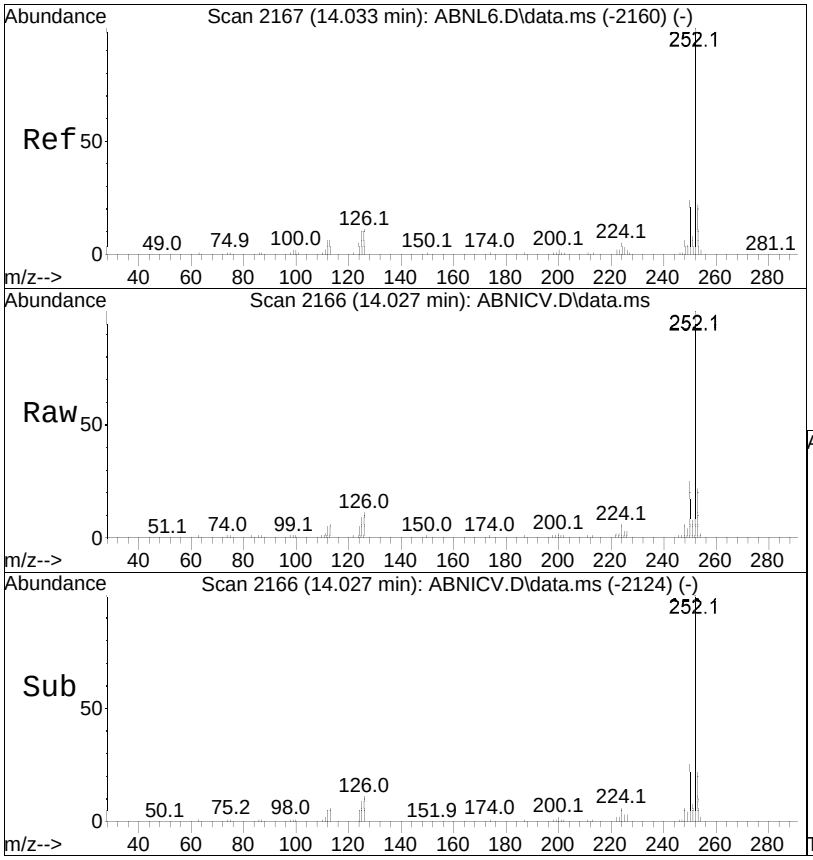


#108
Di-n-octylphthalate
Concen: 5.54 ug/ml
RT: 13.798 min Scan# 2127
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:149 Resp: 439310

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.4	1.3	1.9

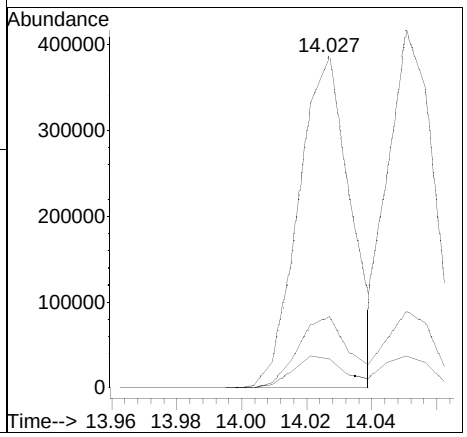


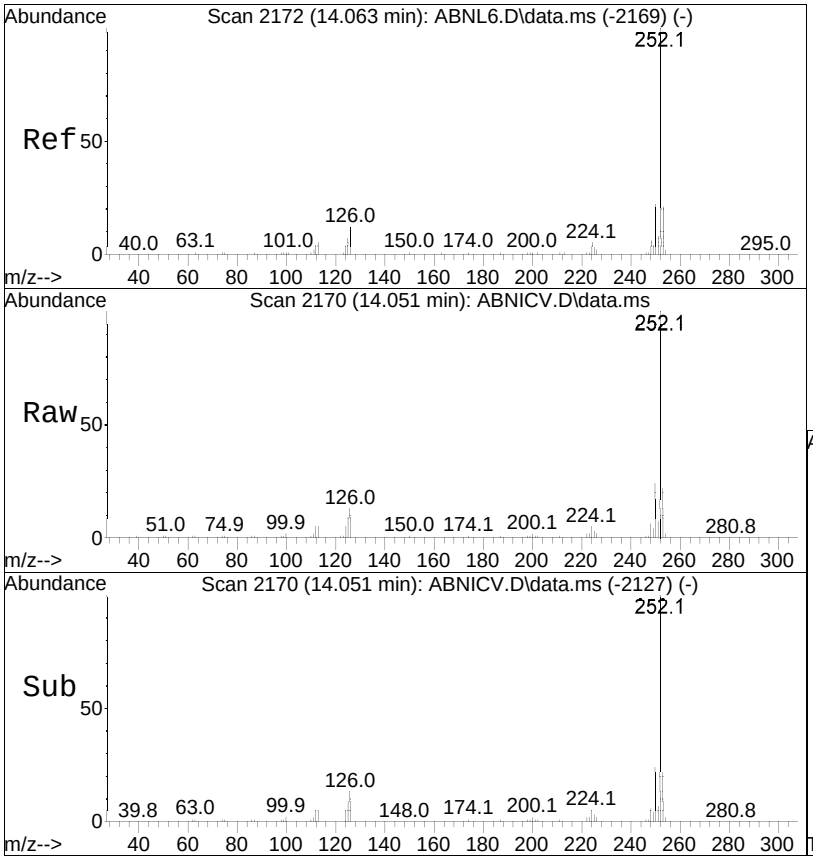


#109
Benzo(b)fluoranthene
Concen: 5.85 ug/ml
RT: 14.027 min Scan# 2166
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 435829

Ion	Ratio	Lower	Upper
252	100		
125	9.8	13.3	19.9#
253	21.4	17.1	25.7

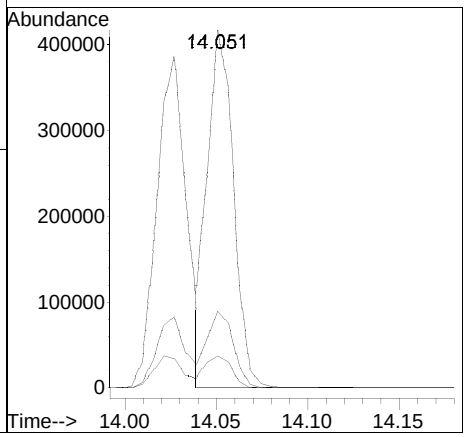


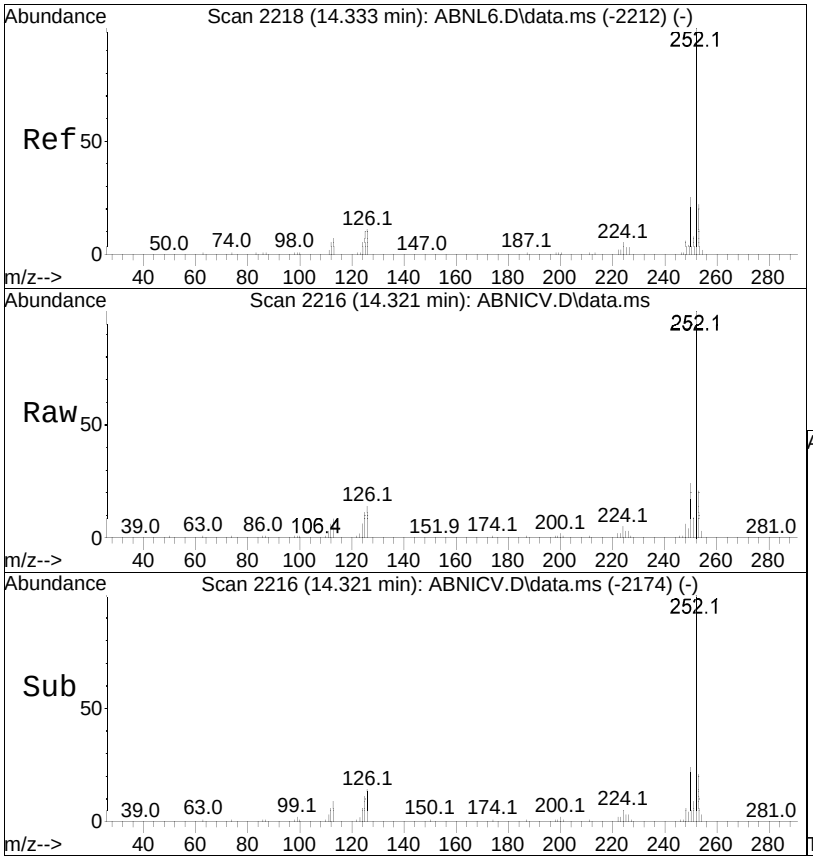


#110
Benzo(k)fluoranthene
Concen: 5.66 ug/ml
RT: 14.051 min Scan# 2170
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 412234

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.0	19.6#
253	21.6	16.8	25.2

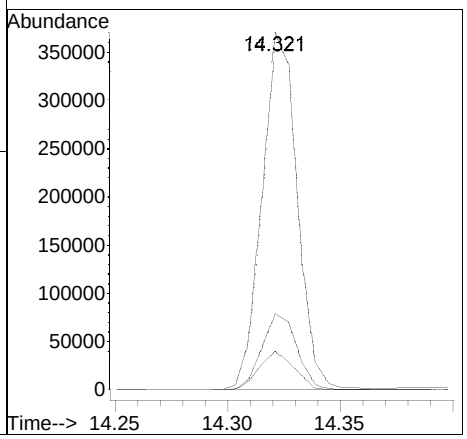


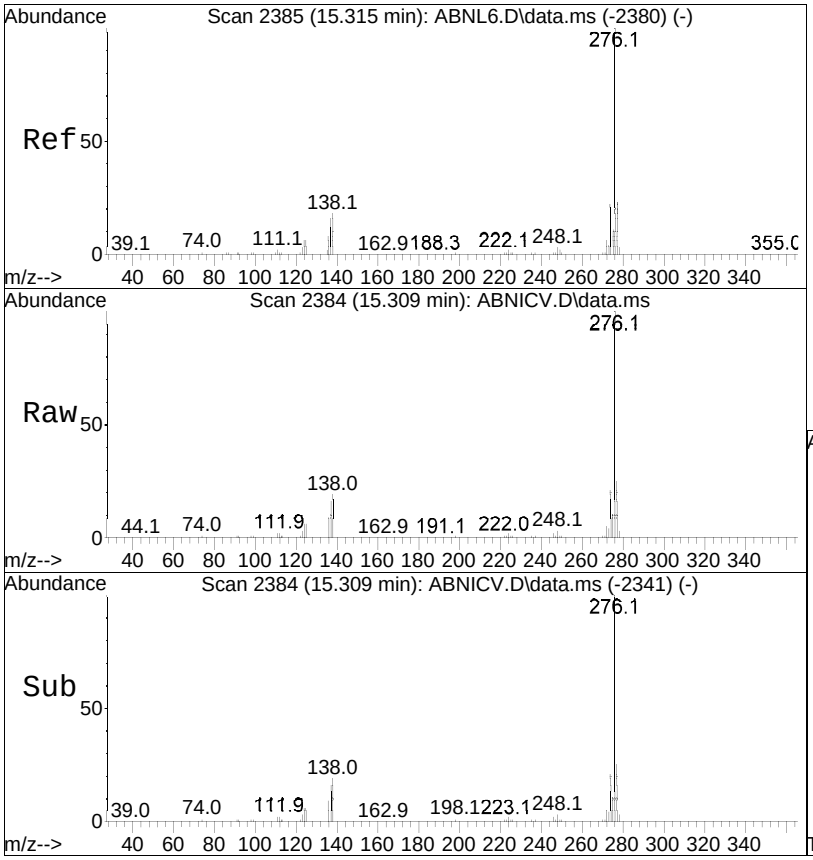


#111
Benzo(a)pyrene
Concen: 5.98 ug/ml
RT: 14.321 min Scan# 2216
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:252 Resp: 399059

Ion	Ratio	Lower	Upper
252	100		
125	10.9	14.2	21.2#
253	21.6	16.9	25.3

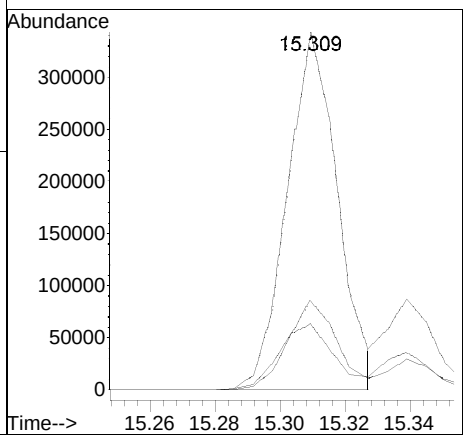


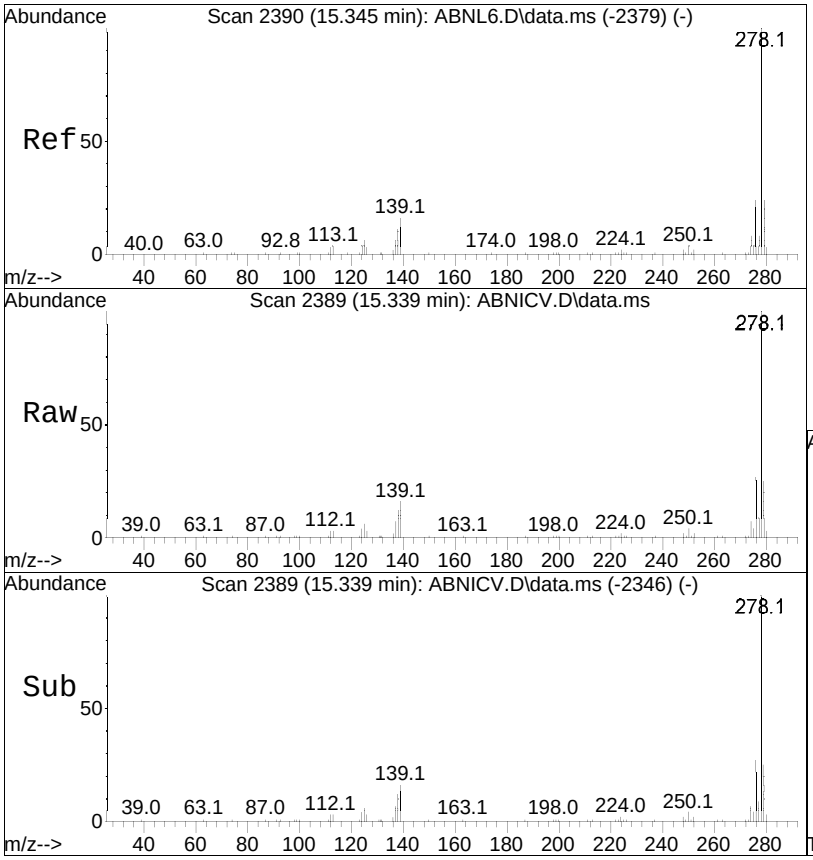


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.42 ug/mL
RT: 15.309 min Scan# 2384
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:276 Resp: 368948

Ion	Ratio	Lower	Upper
276	100		
138	20.7	25.1	37.7#
277	24.7	18.6	28.0

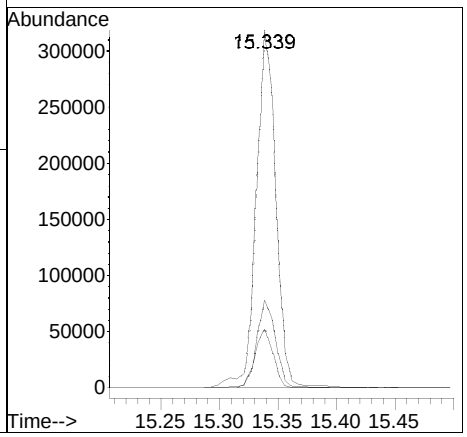


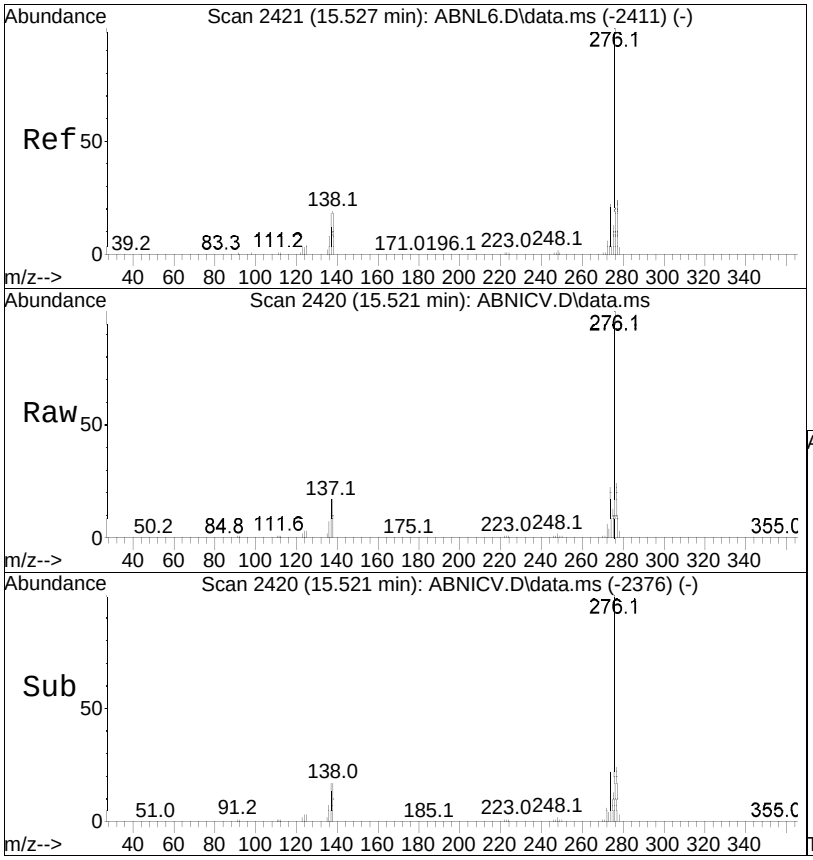


#114
Dibenzo(a,h)anthracene
Concen: 5.69 ug/ml
RT: 15.339 min Scan# 2389
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:278 Resp: 368679

Ion	Ratio	Lower	Upper
278	100		
139	15.5	20.8	31.2#
279	23.9	18.3	27.5

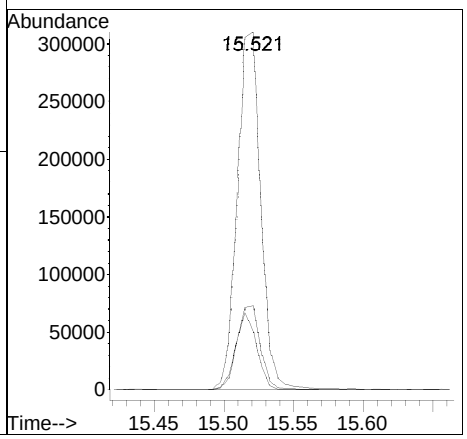




#115
Benzo(ghi)perylene
Concen: 5.64 ug/ml
RT: 15.521 min Scan# 2420
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 19 Apr 2024 4:04 am

Tgt Ion:276 Resp: 360504

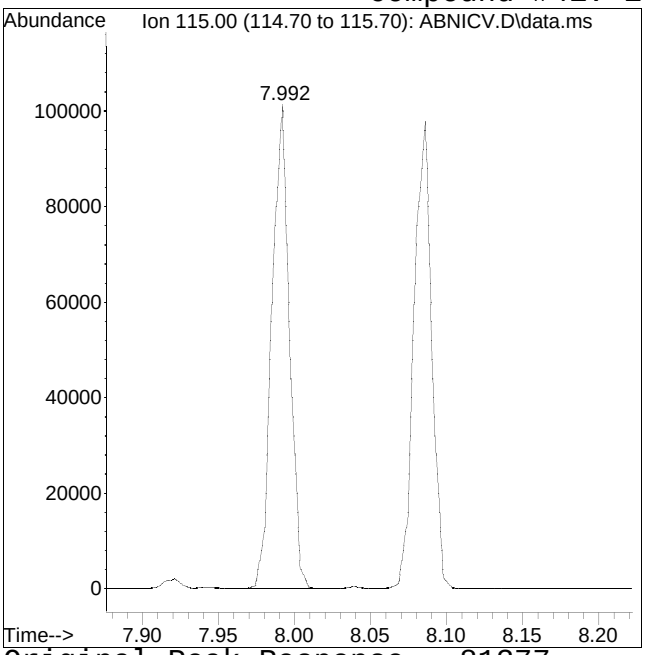
Ion	Ratio	Lower	Upper
276	100		
138	19.7	29.2	43.8#
277	23.9	18.8	28.2

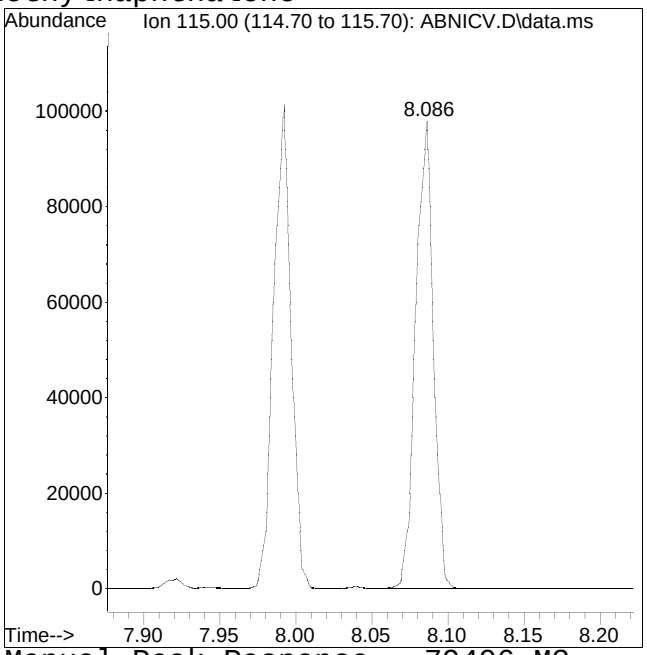


Manual Integration Report

Data Path : I:\8270\SV106\240418RV
Data File : ABNICV.D
Date Inj'd : 4/19/2024 4:04 am
Sample : CQICV1,32,,ABNICV Lot# 106
TicaQMethod : FS240418SV106.m
Operator : SV106:cmm
Instrument : SV 106
Quant Date : 4/19/2024 1:35 pm

Compound #41: 1-Methylnaphthalene





Original Peak Response = 81377 Manual Peak Response = 79496 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
28	T	Benzaldehyde	1.095	1.033	5.7	102	0.00
29	T	Acetophenone	1.981	1.914	3.4	102	0.00
30	T	m-Toluidine	1.685	1.741	-3.3	100	0.00
31	T	2-Chloroaniline	1.619	1.562	3.5	99	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	92	0.00
55	T	a-Terpineol	0.330	0.331	-0.3	98	0.00
56	T	3-Chloroaniline	0.181	0.190	-5.0	97	0.00
57	T	2,6-Dichlorophenol	0.300	0.299	0.3	99	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.165	4.1	100	0.00
59	T	Caprolactam	0.176	0.169	4.0	95	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.454	1.5	100	0.00
61	T	Biphenyl	0.901	0.895	0.7	97	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	92	0.00
83	T	Dichloran	0.191	0.193	-1.0	96	0.00
84	T	Pentachloronitrobenzene	0.232	0.225	3.0	97	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	93	0.00
98	T	Diphenamid	0.451	0.463	-2.7	97	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.722	152	57397	4.000	ug/ml	0.00
Standard Area 1 = 60927			Recovery = 94.21%			
54) IS2_Naphthalene-d8	7.239	136	201893	4.000	ug/ml	# 0.00
Standard Area 1 = 220065			Recovery = 91.74%			
82) IS2_Acenaphthene-d10	9.004	164	129534	4.000	ug/ml	0.00
Standard Area 1 = 140738			Recovery = 92.04%			
97) IS2_Phenanthrene-d10	10.422	188	288179	4.000	ug/ml	0.00
Standard Area 1 = 310465			Recovery = 92.82%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.040	105	74088	4.713	ug/ml	94
29) Acetophenone	6.287	105	137309	4.830	ug/ml#	84
30) m-Toluidine	6.398	106	124919	5.167	ug/ml	96
31) 2-Chloroaniline	6.816	127	112103	4.825	ug/ml	97
55) a-Terpineol	7.334	59	83487	5.007	ug/ml#	79
56) 3-Chloroaniline	7.345	65	48016	5.251	ug/ml#	68
57) 2,6-Dichlorophenol	7.369	162	75437	4.987	ug/ml#	86
58) 1-chloro-2-nitrobenzene	7.639	111	41559	4.796	ug/ml#	1
59) Caprolactam	7.687	55	42552	4.791	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.169	216	114602	4.930	ug/ml	98
61) Biphenyl	8.475	154	225797	4.964	ug/ml	98
83) Dichloran	10.139	206	31296	5.049	ug/ml#	79
84) Pentachloronitrobenzene	10.280	237	36455	4.849	ug/ml#	79
98) Diphenamid	11.345	167	166892	5.133	ug/ml	82

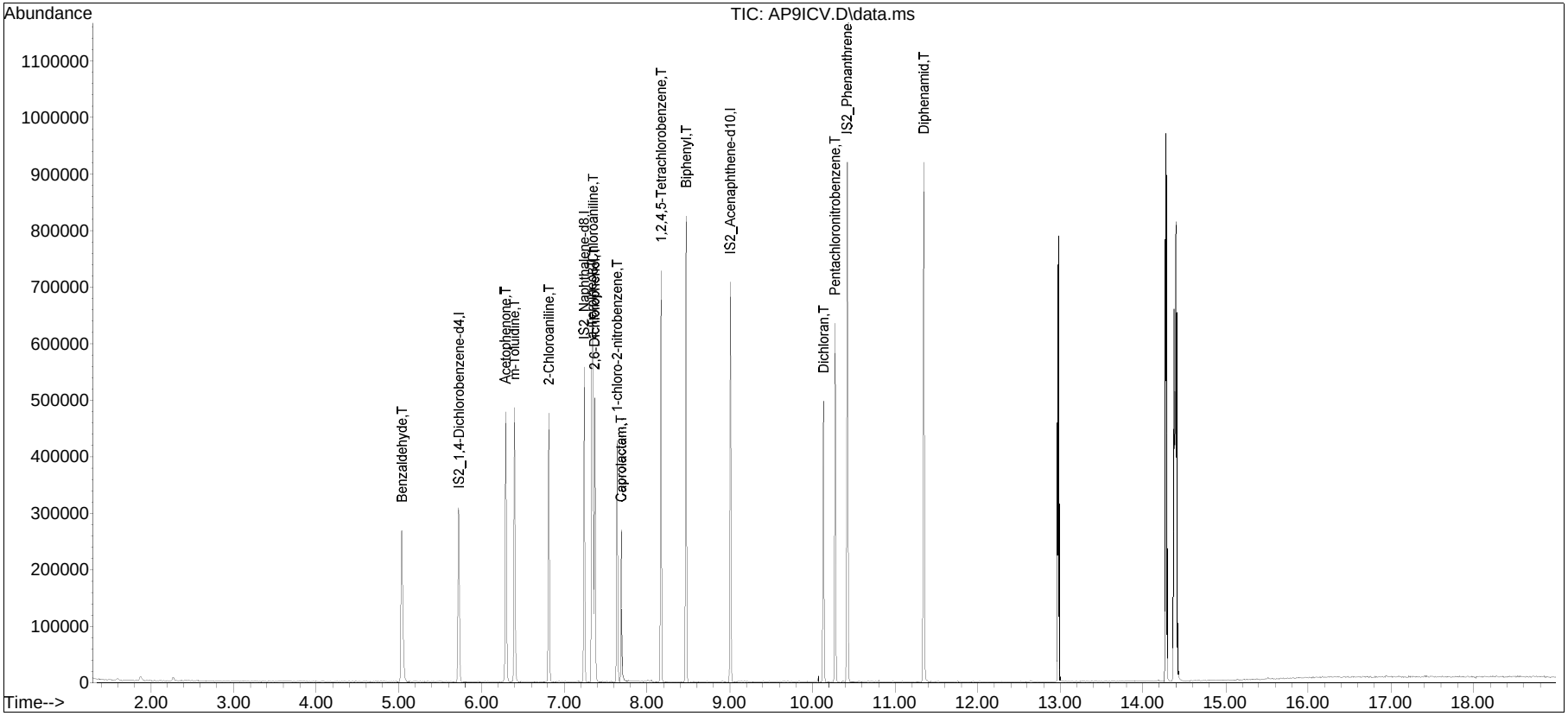
(#) = qualifier out of range (m) = manual integration (+) = signals summed

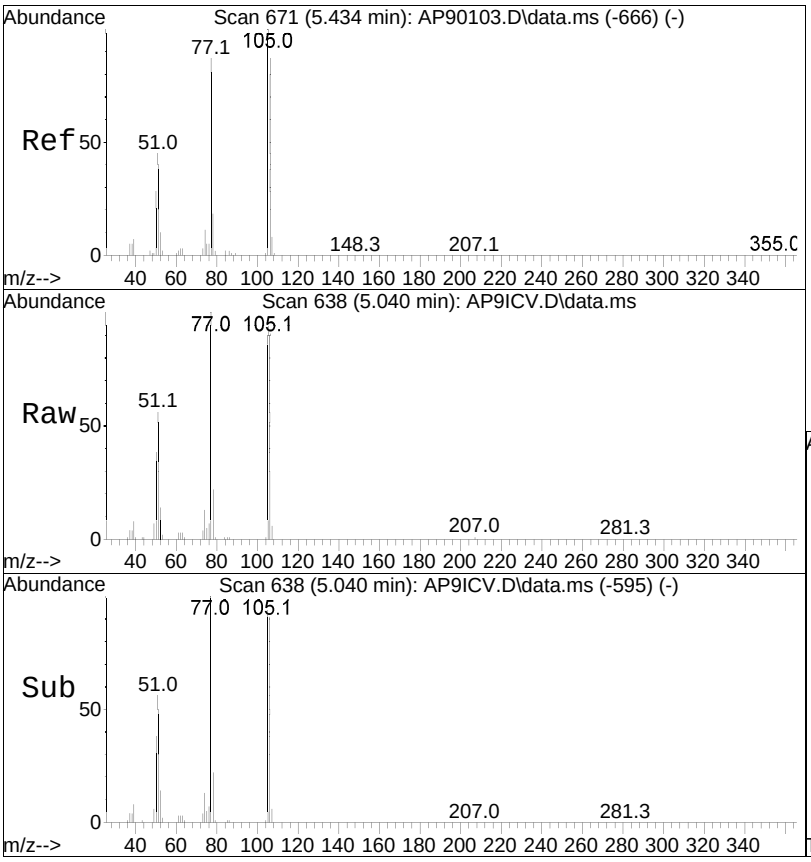
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : AP9ICV.D
Acq On : 19 Apr 2024 4:29 am
Operator : SV106:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1911693,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 19 13:49:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 19 13:48:18 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

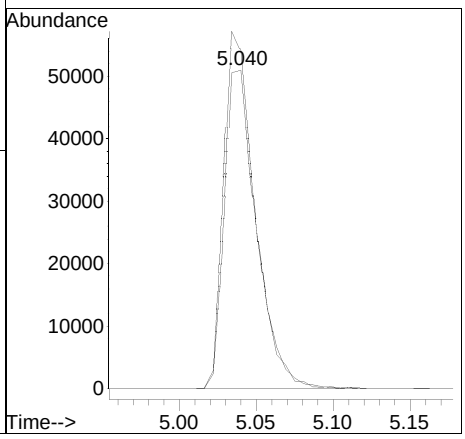


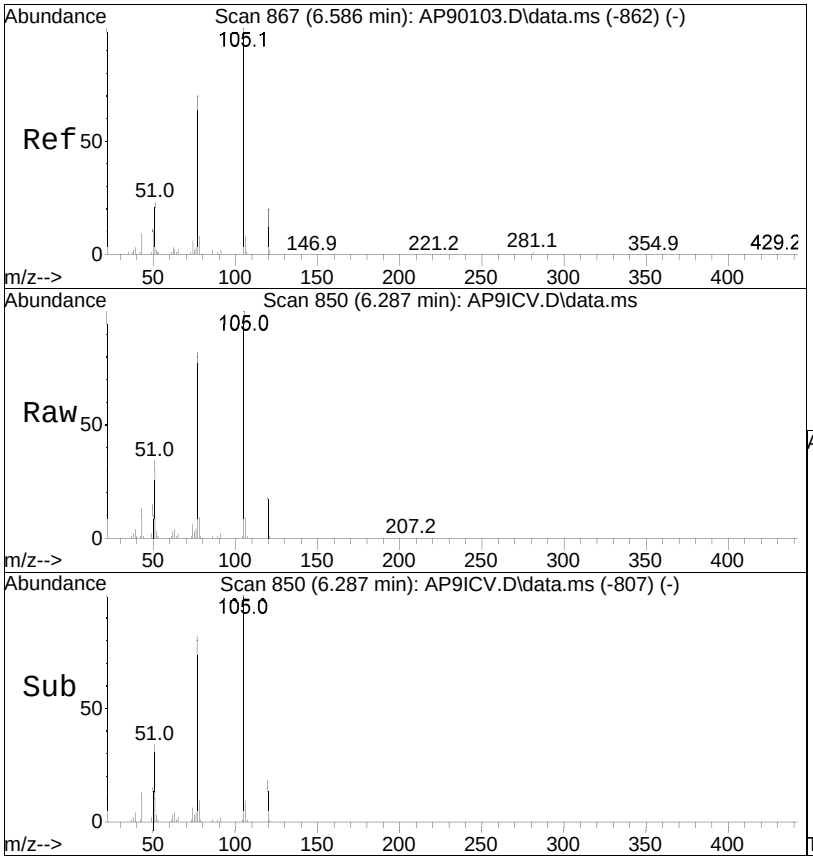


#28
Benzaldehyde
Concen: 4.71 ug/ml
RT: 5.040 min Scan# 638
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:105 Resp: 74088

Ion	Ratio	Lower	Upper
105	100		
77	109.3	82.2	123.4

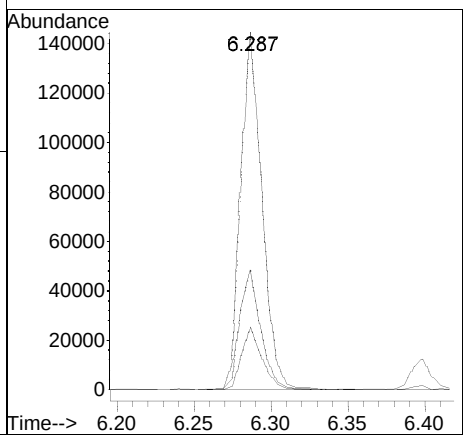


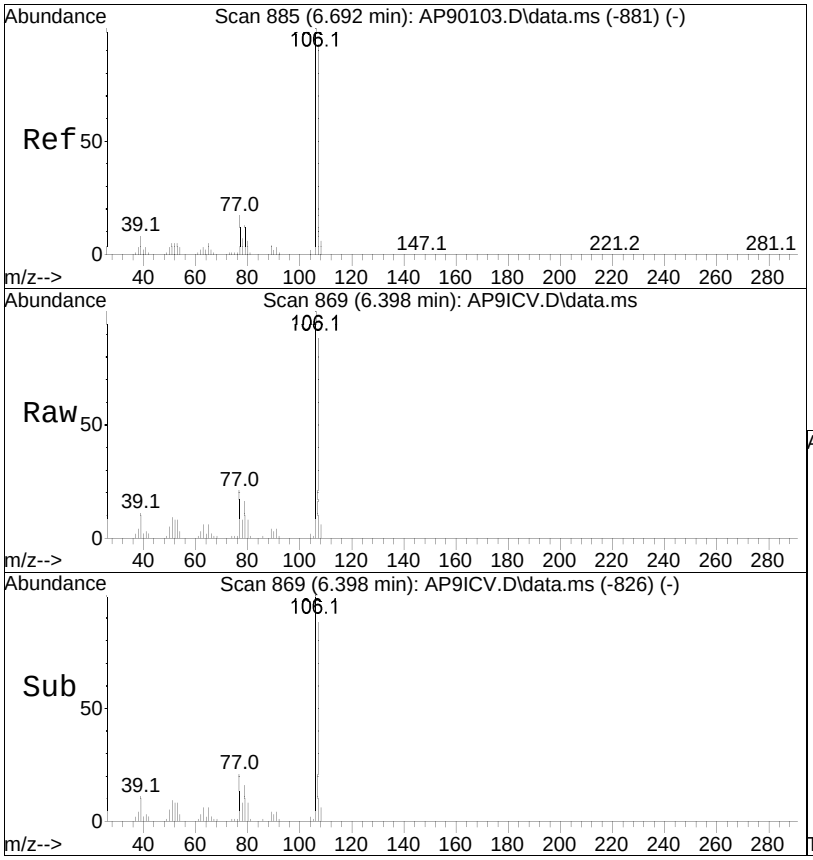


#29
Acetophenone
Concen: 4.83 ug/ml
RT: 6.287 min Scan# 850
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:105 Resp: 137309

Ion	Ratio	Lower	Upper
105	100		
120	16.8	20.5	30.7#
51	33.5	34.9	52.3#

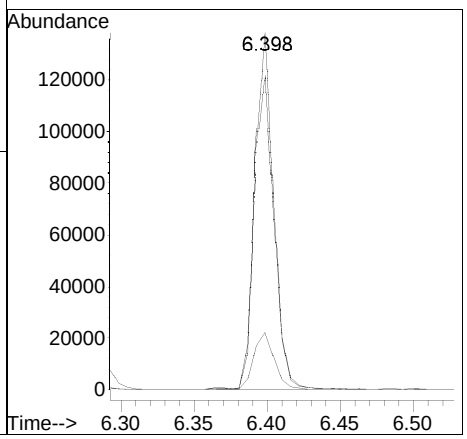


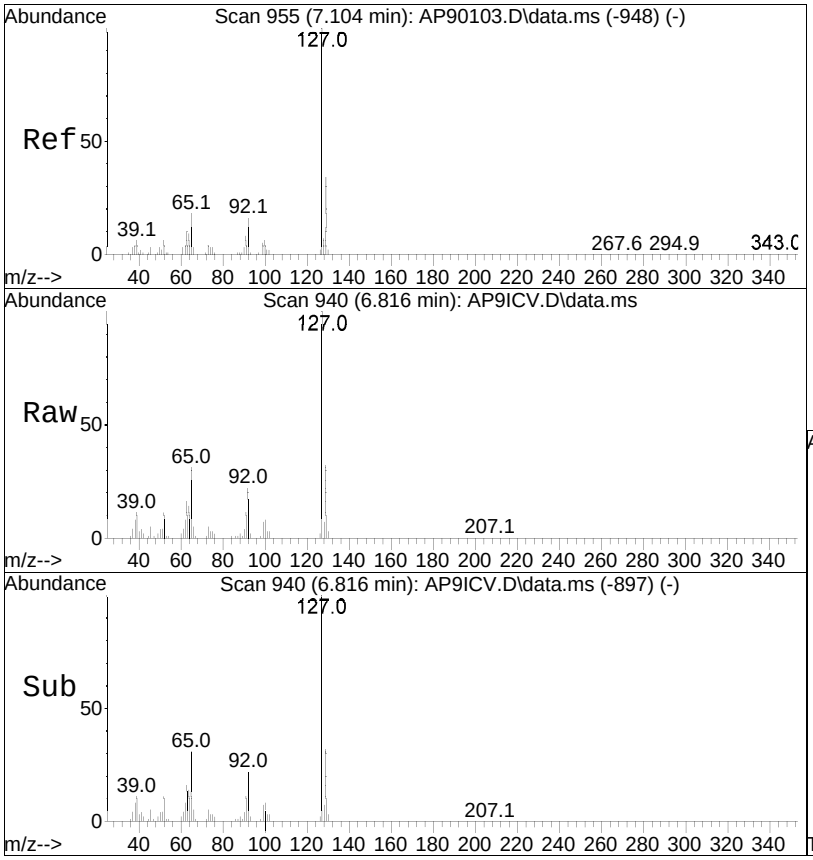


#30
m-Toluidine
Concen: 5.17 ug/ml
RT: 6.398 min Scan# 869
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:106 Resp: 124919

Ion	Ratio	Lower	Upper
106	100		
107	91.3	75.7	113.5
79	17.2	11.8	17.8

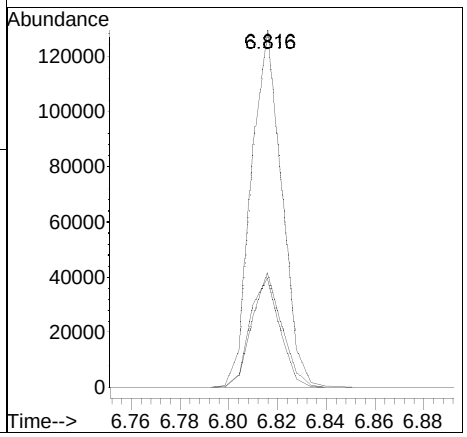


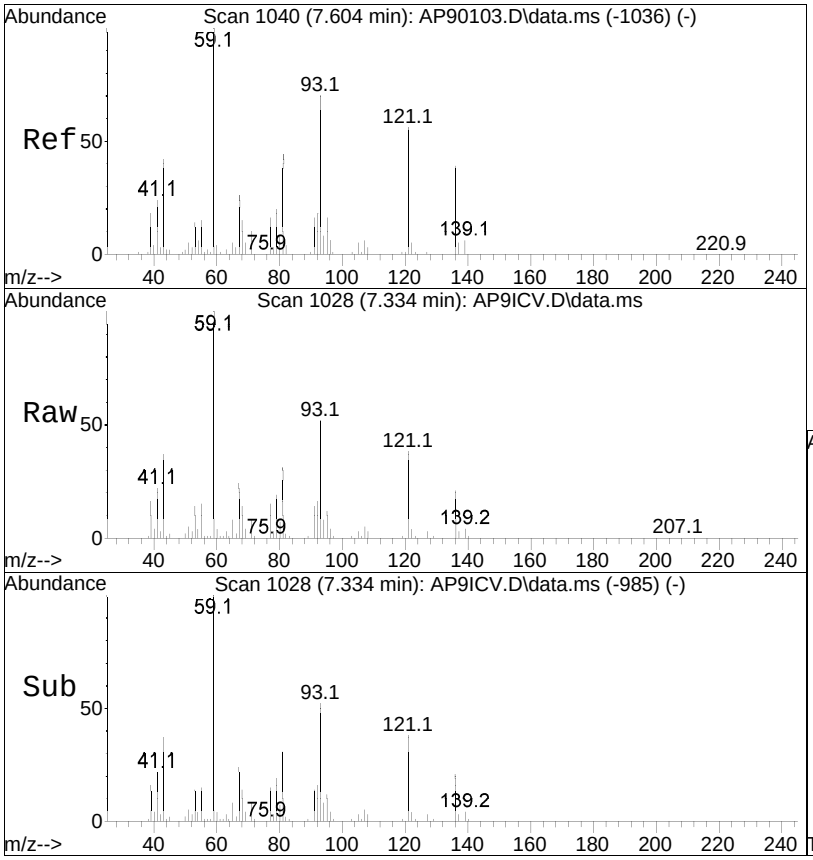


#31
2-Chloroaniline
Concen: 4.83 ug/ml
RT: 6.816 min Scan# 940
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:127 Resp: 112103

Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.9	38.9
65	30.3	26.3	39.5

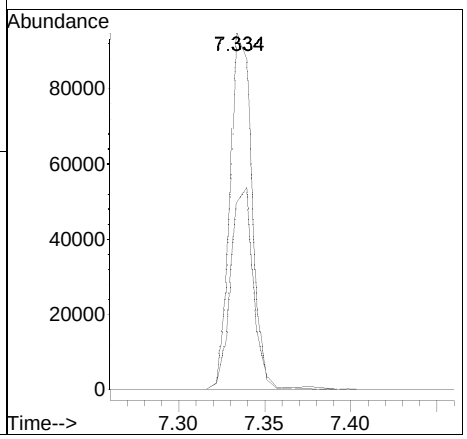


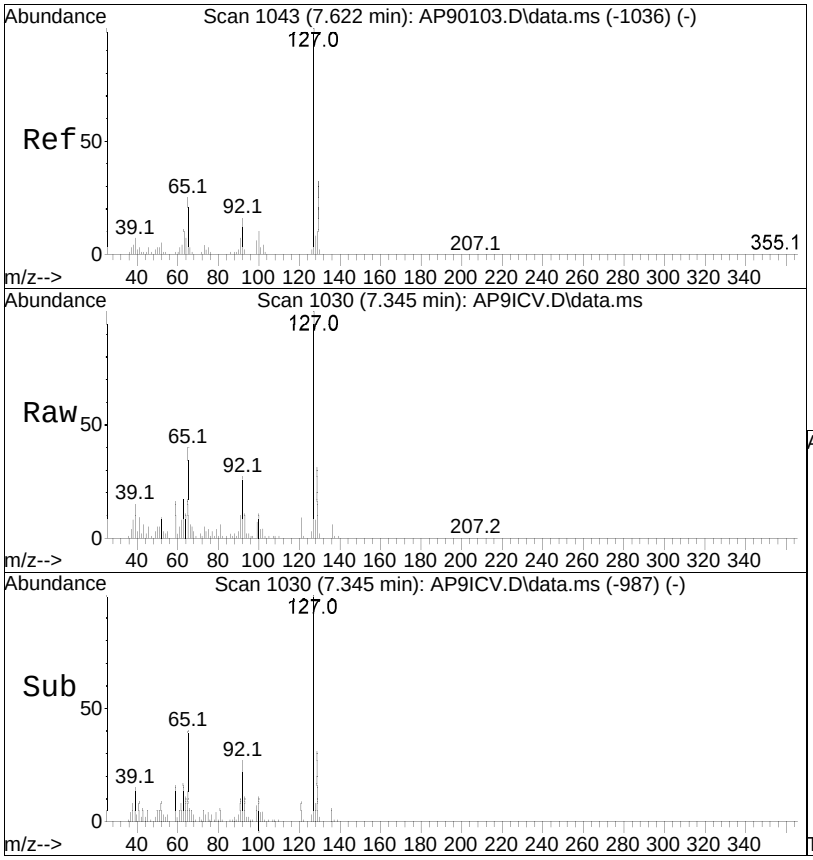


#55
a-Terpineol
Concen: 5.01 ug/ml
RT: 7.334 min Scan# 1028
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 59 Resp: 83487

Ion	Ratio	Lower	Upper
59	100		
93	58.5	35.6	53.4#

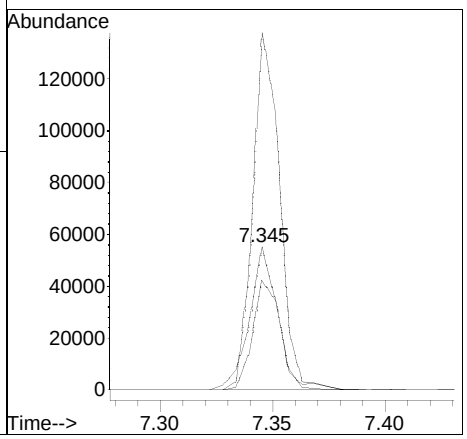


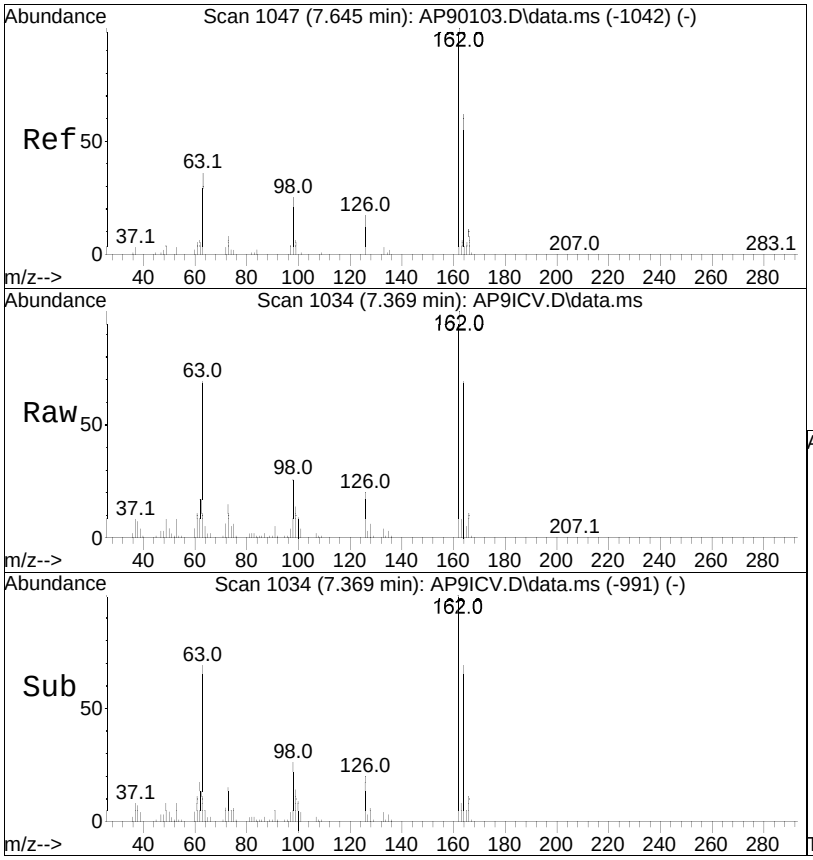


#56
3-Chloroaniline
Concen: 5.25 ug/ml
RT: 7.345 min Scan# 1030
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 65 Resp: 48016

Ion	Ratio	Lower	Upper
65	100		
127	236.0	243.2	364.8#
129	74.9	78.8	118.2#

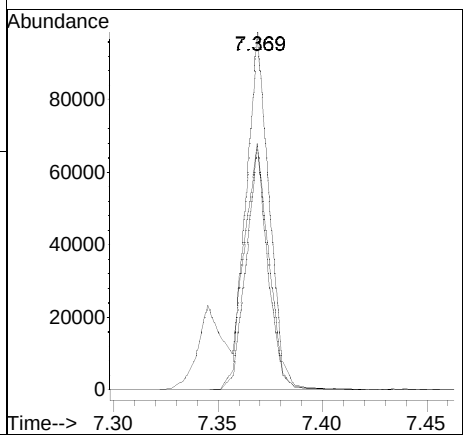


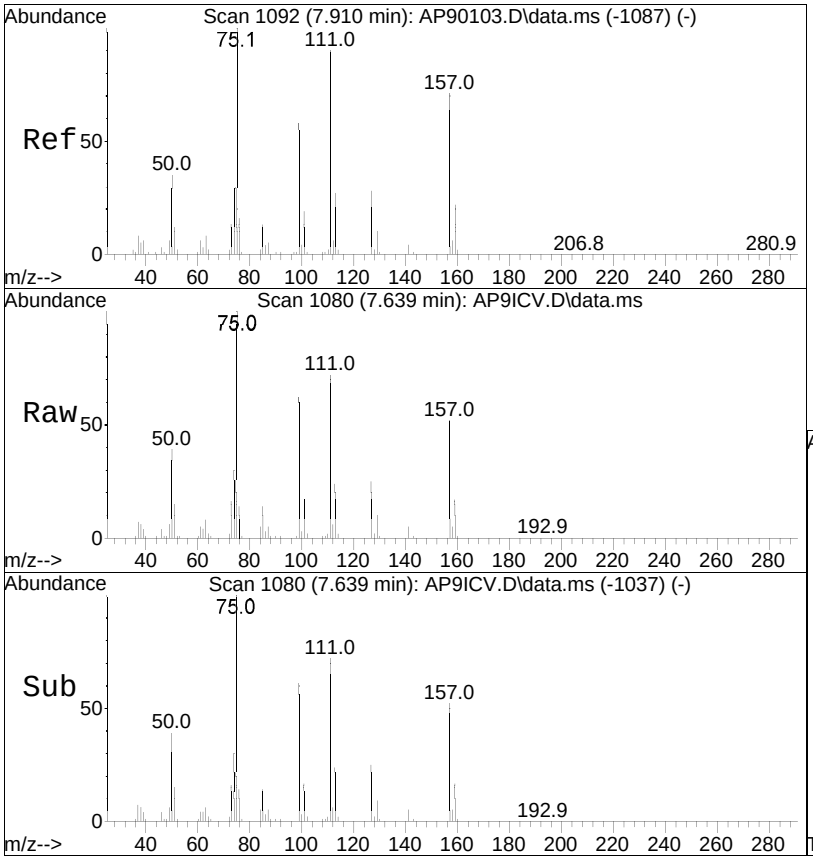


#57
2,6-Dichlorophenol
Concen: 4.99 ug/ml
RT: 7.369 min Scan# 1034
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:162 Resp: 75437

Ion	Ratio	Lower	Upper
162	100		
164	67.0	51.1	76.7
63	95.1	60.8	91.2#

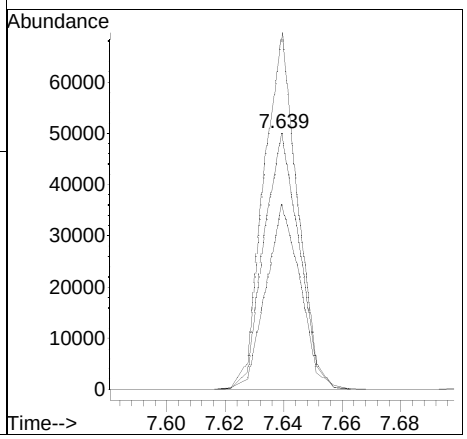


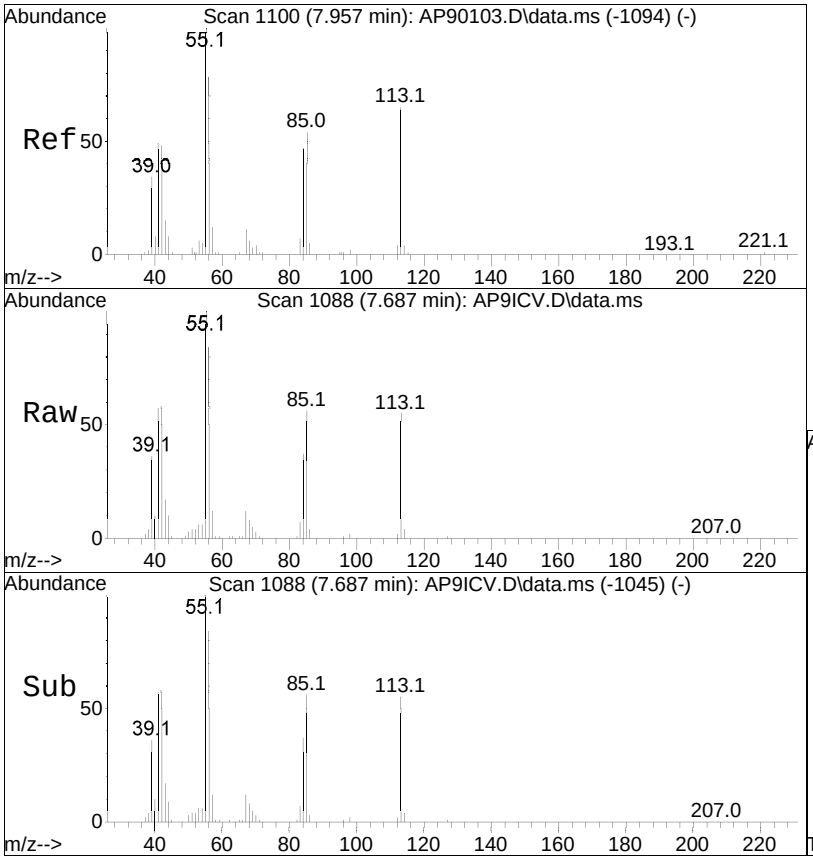


#58
1-chloro-2-nitrobenzene
Concen: 4.80 ug/ml
RT: 7.639 min Scan# 1080
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:111 Resp: 41559

Ion	Ratio	Lower	Upper
111	100		
157	70.9	0.0	0.0#
75	134.1	28.2	42.2#

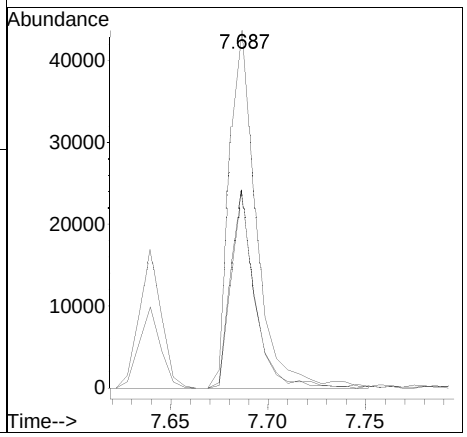


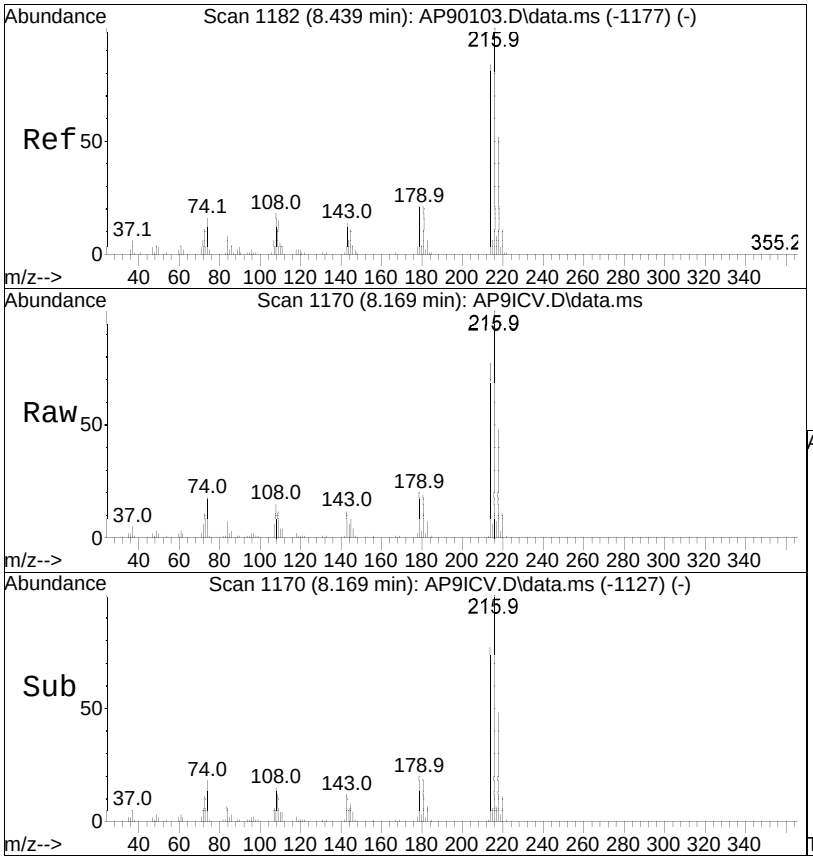


#59
Caprolactam
Concen: 4.79 ug/ml
RT: 7.687 min Scan# 1088
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion: 55 Resp: 42552

Ion	Ratio	Lower	Upper
55	100		
85	49.3	19.8	29.6#
113	48.1	29.6	44.4#

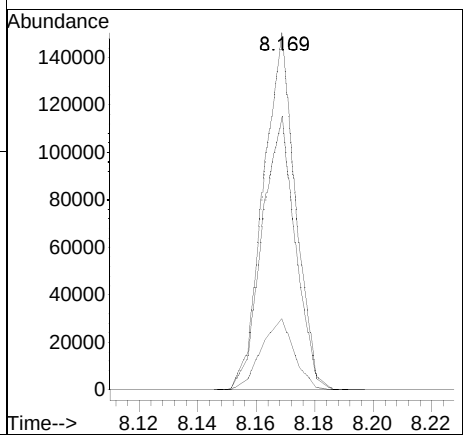


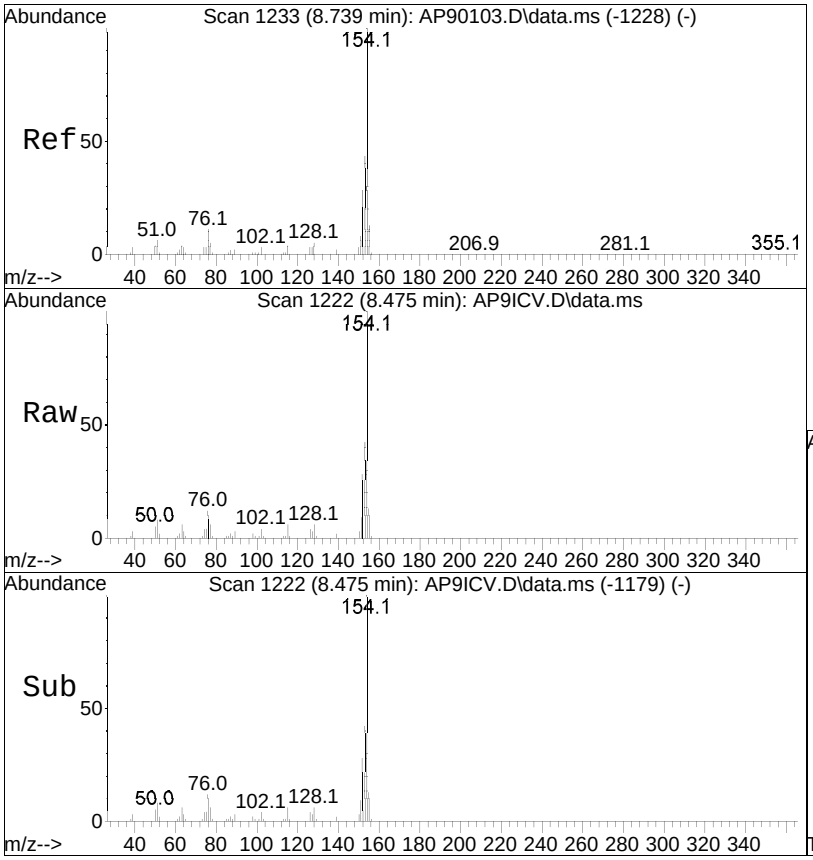


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.93 ug/ml
RT: 8.169 min Scan# 1170
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:216 Resp: 114602

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	20.6	19.0	28.6

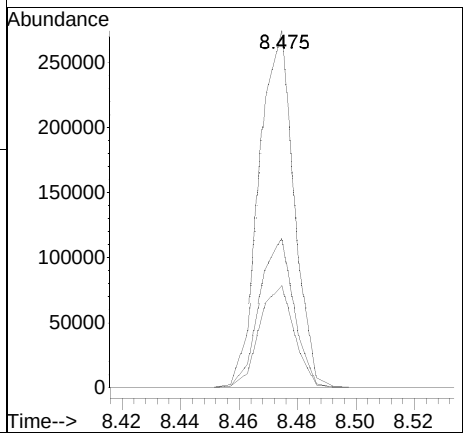


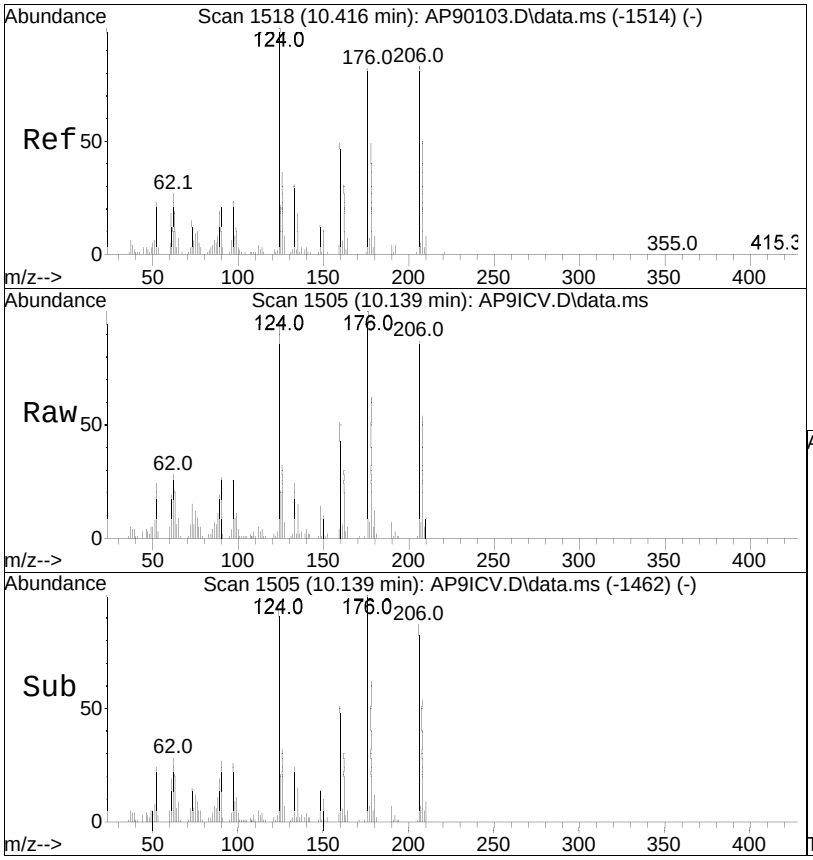


#61
Biphenyl
Concen: 4.96 ug/ml
RT: 8.475 min Scan# 1222
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:154 Resp: 225797

Ion	Ratio	Lower	Upper
154	100		
153	41.4	32.3	48.5
152	28.9	22.5	33.7

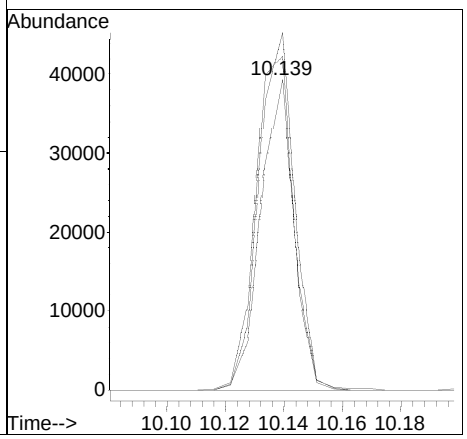


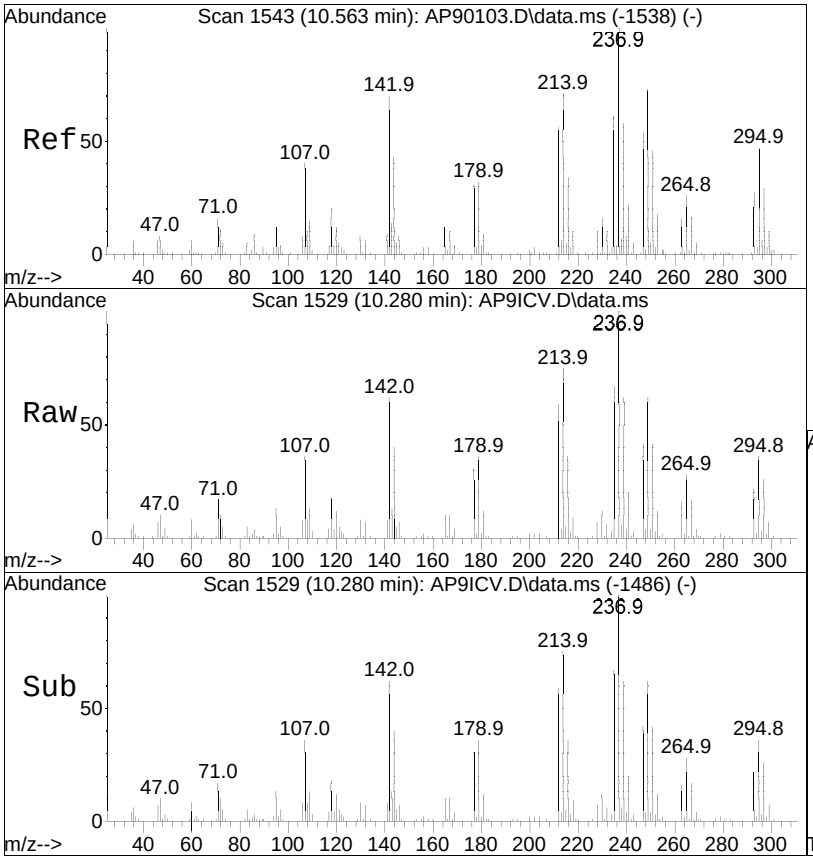


#83
Dichloran
Concen: 5.05 ug/ml
RT: 10.139 min Scan# 1505
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:206 Resp: 31296

Ion	Ratio	Lower	Upper
206	100		
176	123.1	104.6	157.0
124	120.6	130.5	195.7#

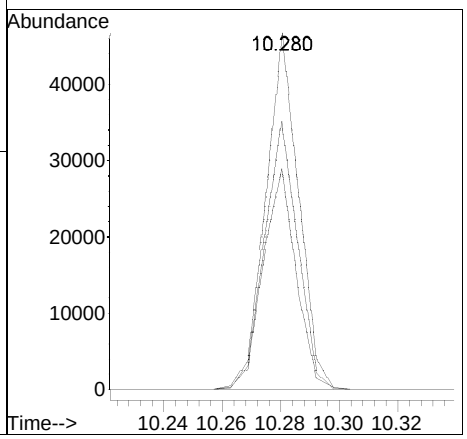


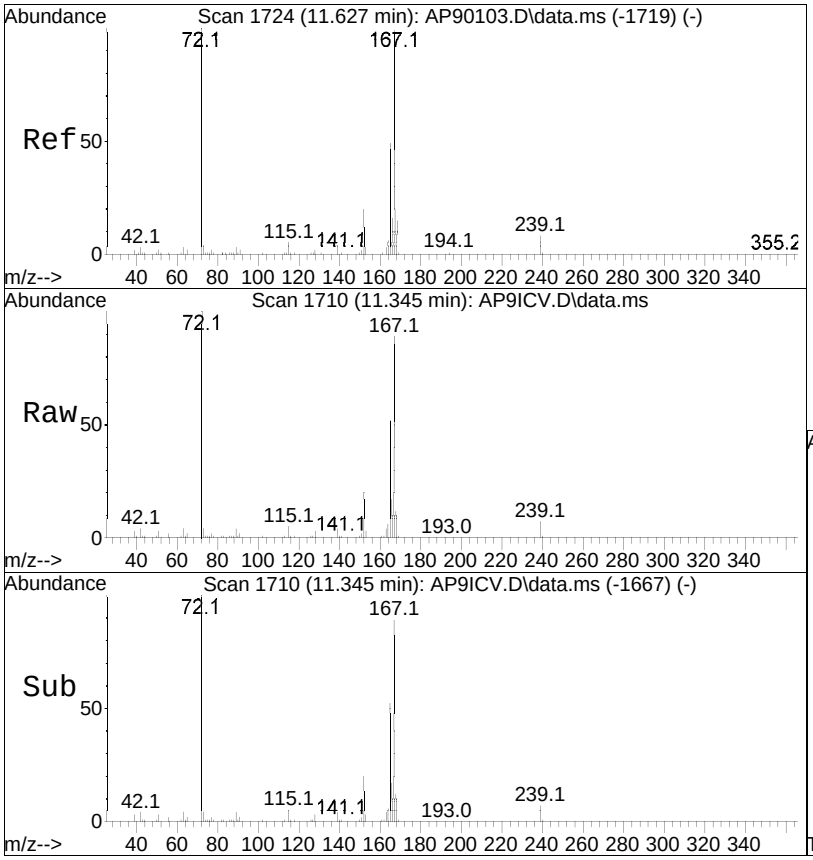


#84
Pentachloronitrobenzene
Concen: 4.85 ug/ml
RT: 10.280 min Scan# 1529
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:237 Resp: 36455

Ion	Ratio	Lower	Upper
237	100		
142	62.0	77.0	115.4#
214	75.6	58.2	87.4

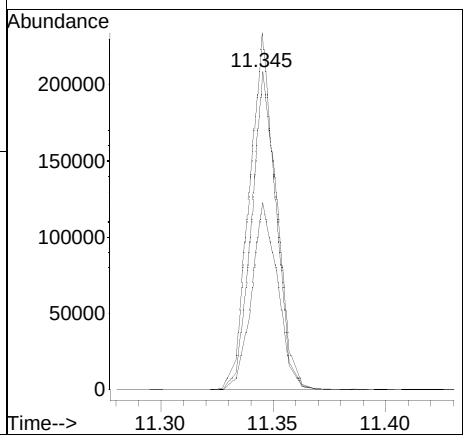




#98
Diphenamid
Concen: 5.13 ug/ml
RT: 11.345 min Scan# 1710
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 19 Apr 2024 4:29 am

Tgt Ion:167 Resp: 166892

Ion	Ratio	Lower	Upper
167	100		
72	111.9	109.7	164.5
165	59.8	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: AP9ICV.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 4:29 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 4/19/2024 1:48 pm

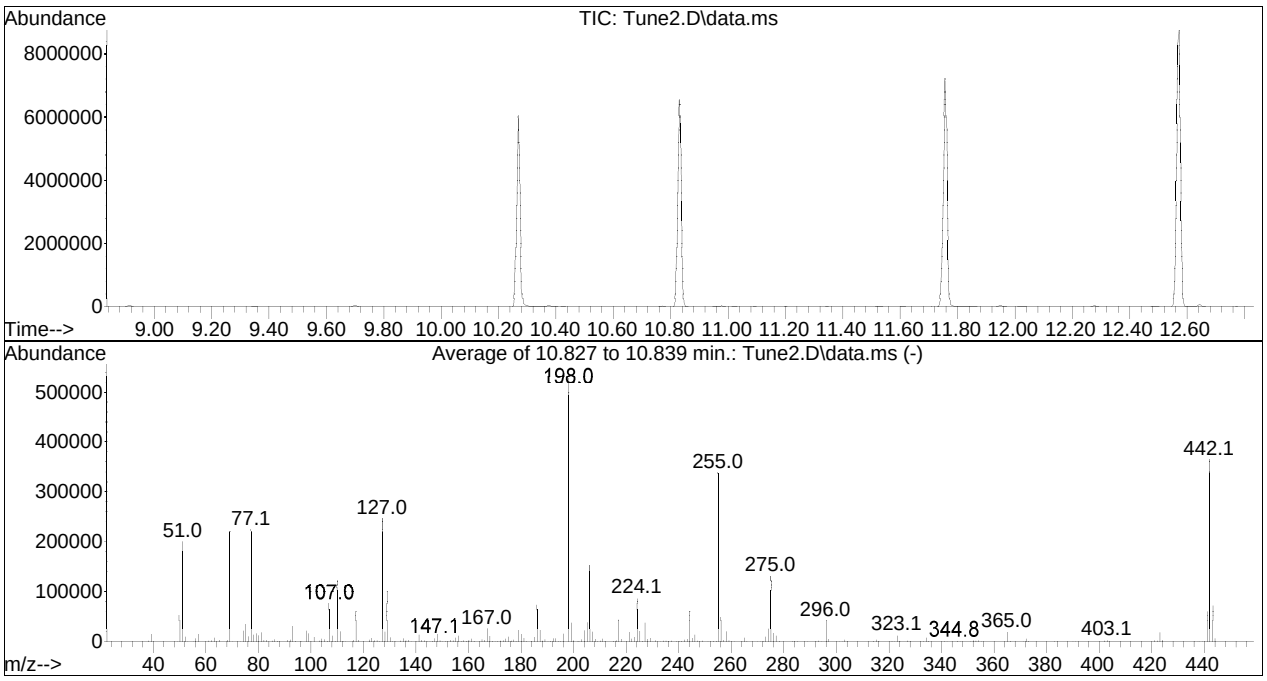
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024



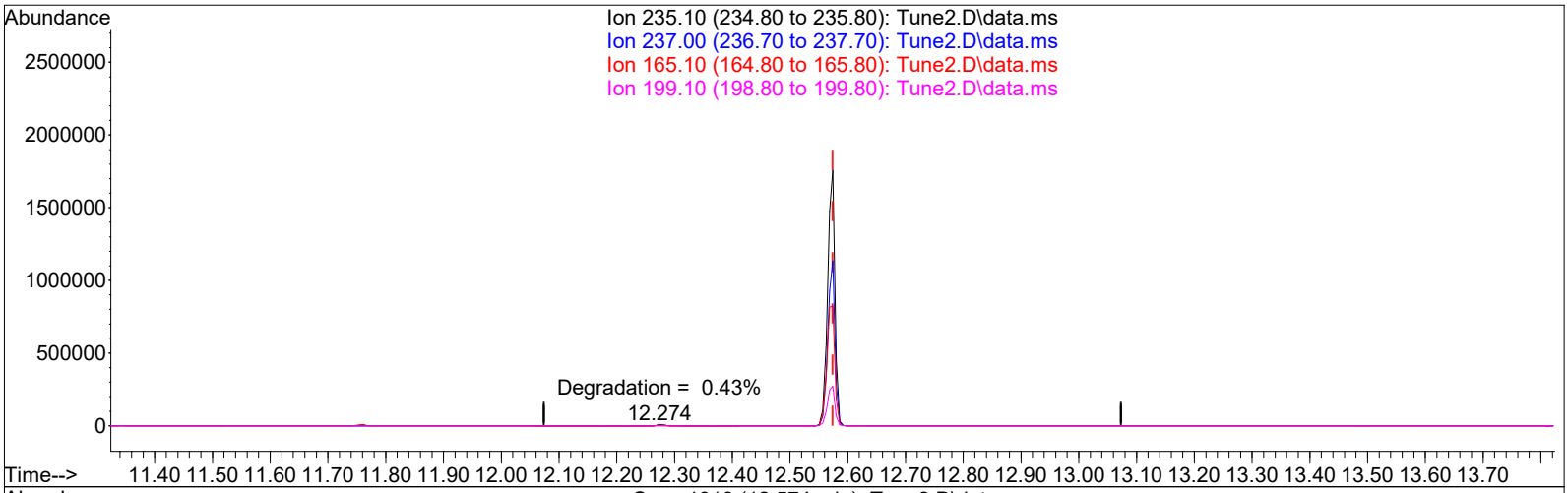
Spectrum Information: Average of 10.827 to 10.839 min.

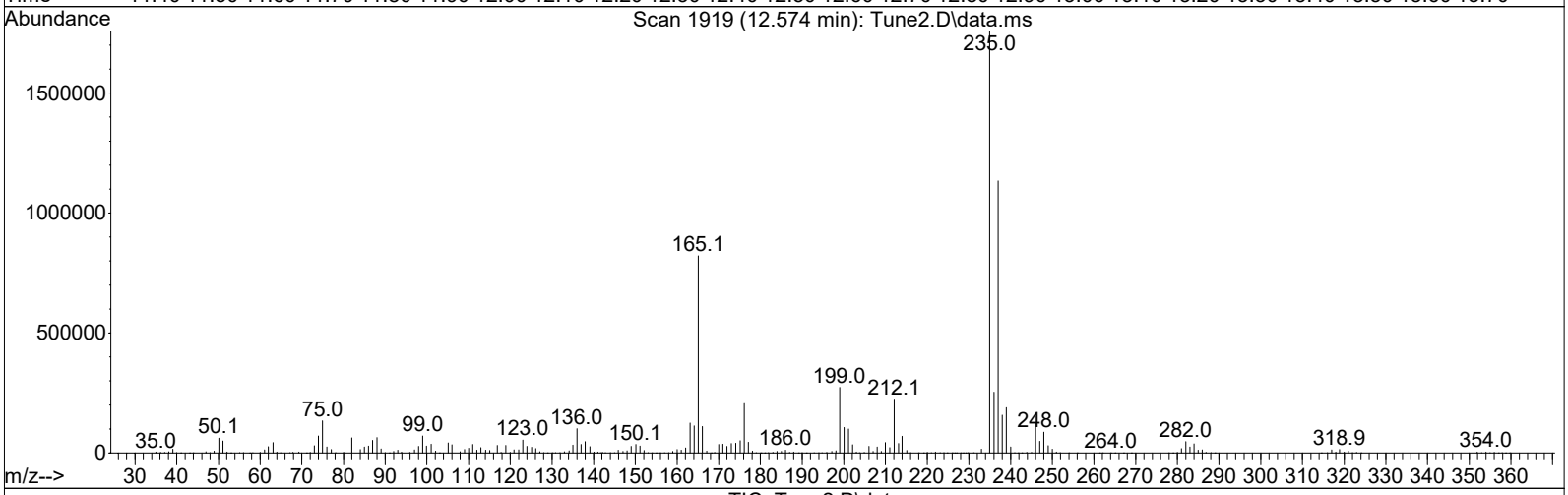
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.7	199415	PASS
68	69	0.00	2	1.6	3533	PASS
69	69	100	100	100.0	220931	PASS
70	69	0.00	2	0.5	1068	PASS
127	198	10	80	46.4	245512	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	528875	PASS
199	198	5	9	6.7	35349	PASS
275	198	10	60	24.7	130384	PASS
365	198	1	100	3.5	18374	PASS
441	442	0.01	24	16.1	58576	PASS
442	198	50	100	68.8	363989	PASS
443	442	15	24	19.5	70851	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(6) DDT (T)

12.574min (+ 0.000) 254.83

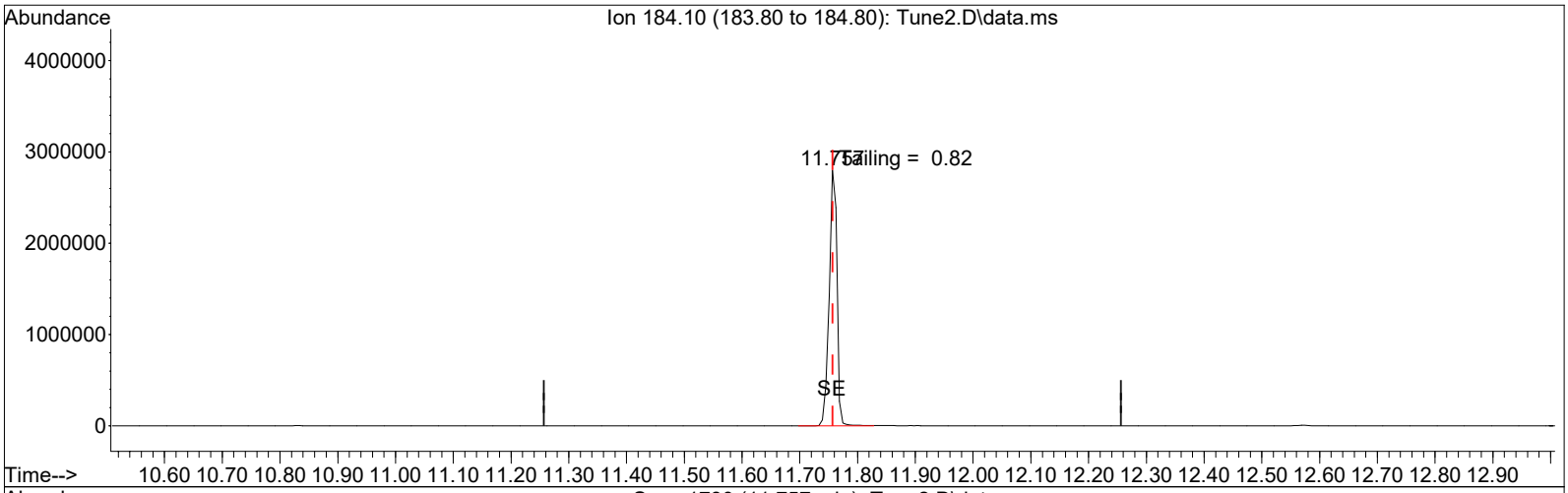
response 1553404

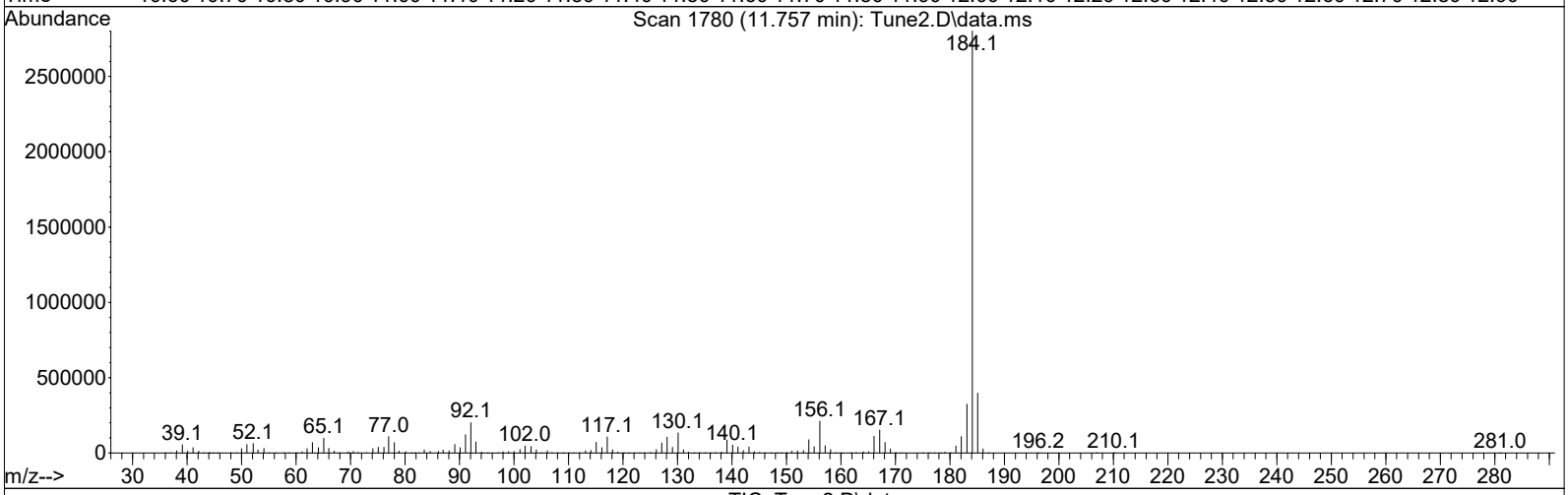
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.70
165.10	44.50	50.95
199.10	14.80	16.29

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(3) Benzidine (T)

11.757min (-0.000) 260.34

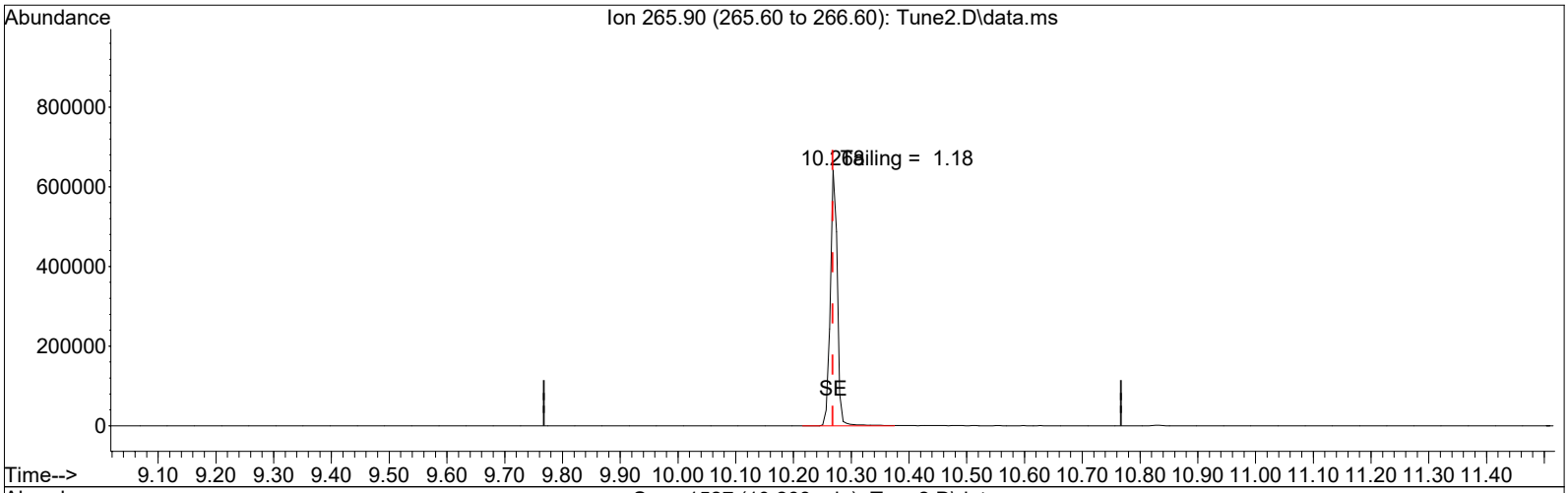
response 2650247

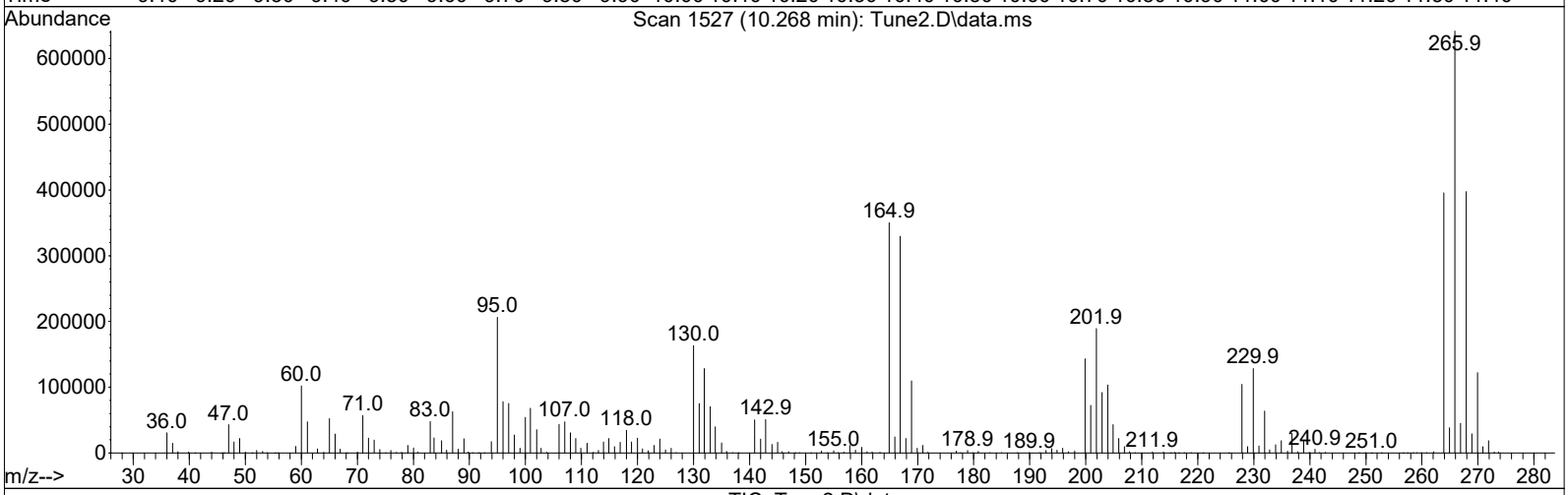
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240418RVTical\
Data File : Tune2.D
Acq On : 19 Apr 2024 4:53 am
Operator : SV106:cmm
Sample : Tune2
Misc : WG1911693,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Apr 22 13:26:57 2024
Quant Method : I:\8270\SV106\240418RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:26:55 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(1) Pentachlorophenol (T)

10.268min (+ 0.000) 257.59

response 541026

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL9.D
Acq On : 19 Apr 2024 5:17 am
Operator : SV106:cmm
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1911693,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 22 14:01:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	57527	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 94.59%			
85) IS3_Acenaphthene-d10	9.004	164	137803	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 97.66%			
99) IS3_Phenanthrene-d10	10.422	188	302664	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 94.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	1108246	50.124	ug/ml#	39
86) Atrazine	10.251	200	786578	56.670	ug/ml	94
100) n-Octadecane	10.457	57	1824251	54.816	ug/ml#	1
101) Parathion	11.239	109	569420	62.422	ug/ml	94
102) 3,3'-Dimethylbenzidine	12.474	212	3431822	53.068	ug/ml	99

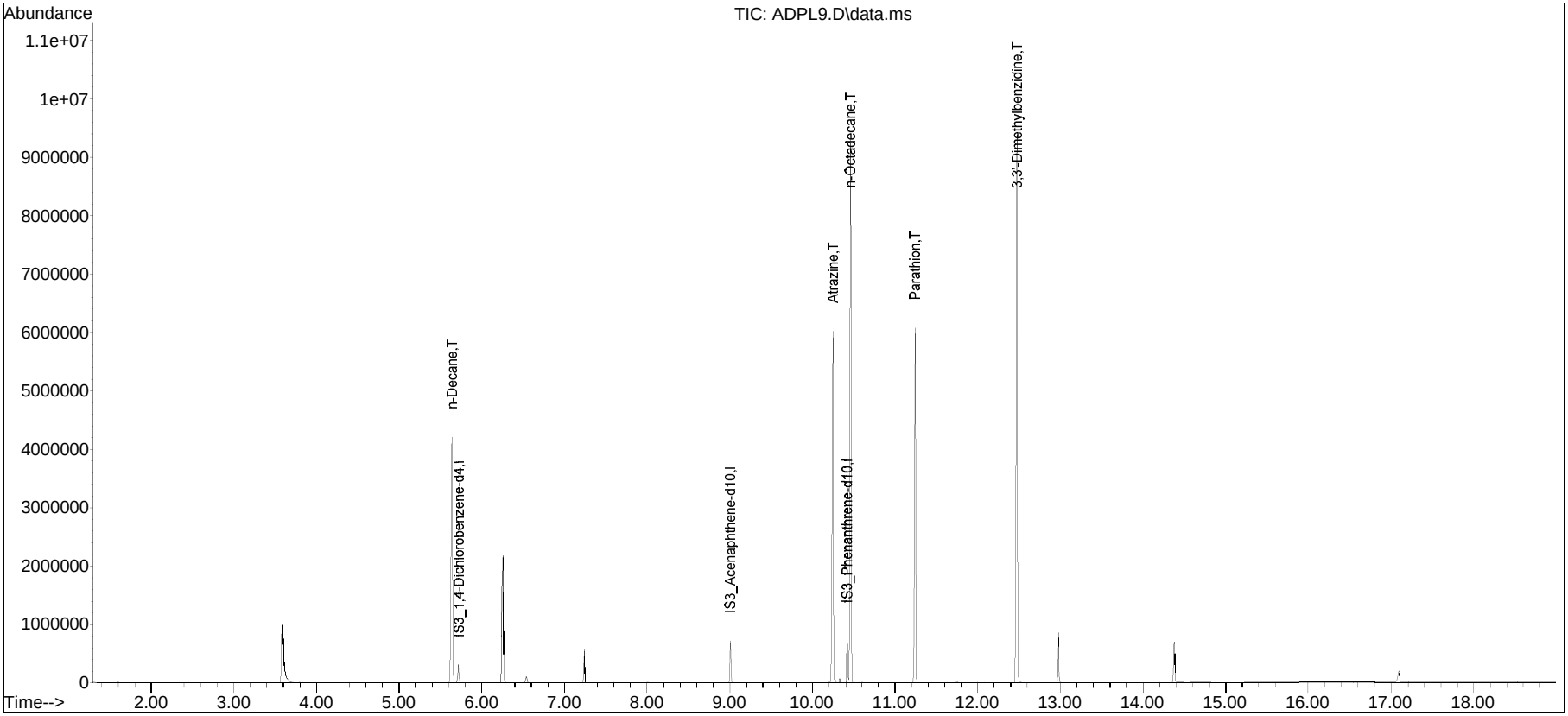
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL9.D
Acq On : 19 Apr 2024 5:17 am
Operator : SV106:cmm
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1911693,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 22 14:01:24 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL9.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 5:17 am	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 4/22/2024 2:01 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL8.D
Acq On : 19 Apr 2024 5:41 am
Operator : SV106:cmm
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1911693,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 22 14:01:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	61971	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	101.90%		
85) IS3_Acenaphthene-d10	9.004	164	152721	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	108.23%		
99) IS3_Phenanthrene-d10	10.422	188	341854	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	106.88%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	577196	24.233	ug/ml#	38
86) Atrazine	10.245	200	417234	27.124	ug/ml	93
100) n-Octadecane	10.457	57	970659	25.823	ug/ml#	1
101) Parathion	11.233	109	284779	27.640	ug/ml	93
102) 3,3'-Dimethylbenzidine	12.469	212	1729166	23.882	ug/ml	99

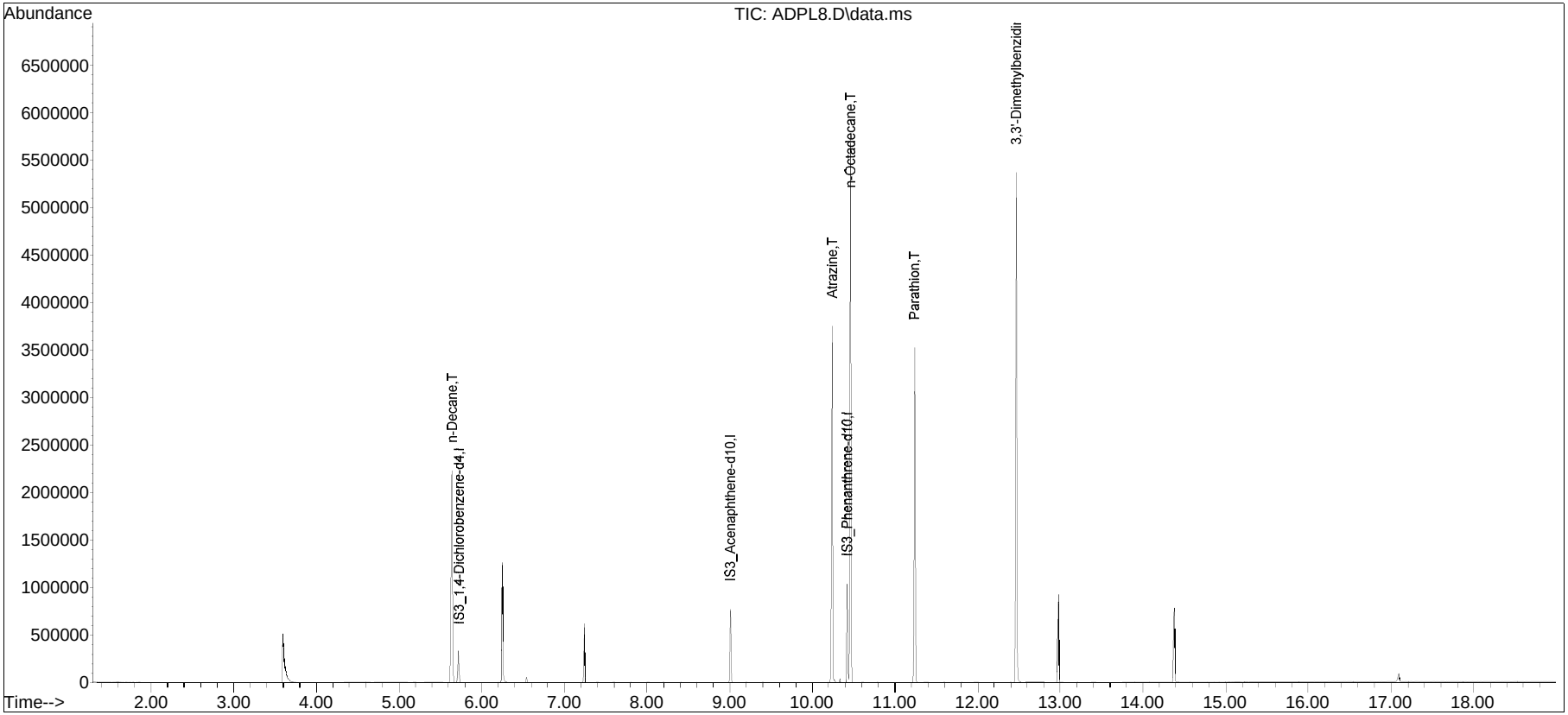
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL8.D
Acq On : 19 Apr 2024 5:41 am
Operator : SV106:cmm
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1911693,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 22 14:01:12 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL8.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 5:41 am	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 4/22/2024 2:01 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL7.D
Acq On : 19 Apr 2024 6:05 am
Operator : SV106:cmm
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1911693,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 22 14:01:00 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	62281	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	102.41%		
85) IS3_Acenaphthene-d10	9.004	164	151078	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	107.07%		
99) IS3_Phenanthrene-d10	10.421	188	345180	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	107.92%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.639	57	226249	9.452	ug/ml#	38
86) Atrazine	10.239	200	163112	10.719	ug/ml	93
100) n-Octadecane	10.457	57	381258	10.045	ug/ml#	1
101) Parathion	11.233	109	106248	10.213	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.462	212	637673	8.961	ug/ml	99

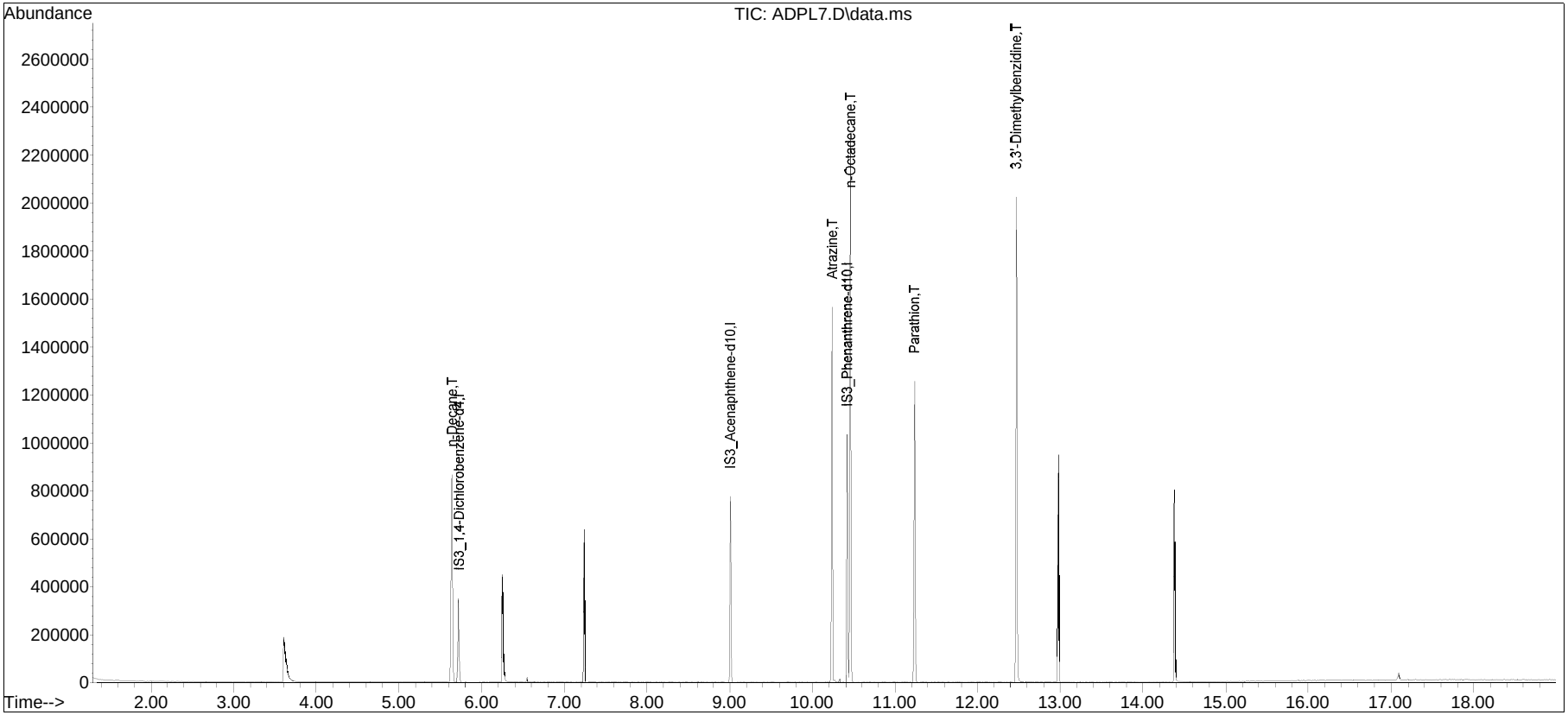
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL7.D
Acq On : 19 Apr 2024 6:05 am
Operator : SV106:cmm
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1911693,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 22 14:01:00 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL7.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:05 am	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL6.D
Acq On : 19 Apr 2024 6:29 am
Operator : SV106:cmm
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1911693,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 22 14:00:49 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	60814	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.004	164	141108	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	10.422	188	319847	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	107924	4.617	ug/ml#	39
86) Atrazine	10.233	200	69241	4.872	ug/ml	94
100) n-Octadecane	10.457	57	173056	4.921	ug/ml#	1
101) Parathion	11.227	109	43290	4.491	ug/ml	91
102) 3,3'-Dimethylbenzidine	12.463	212	264245	4.215	ug/ml	99

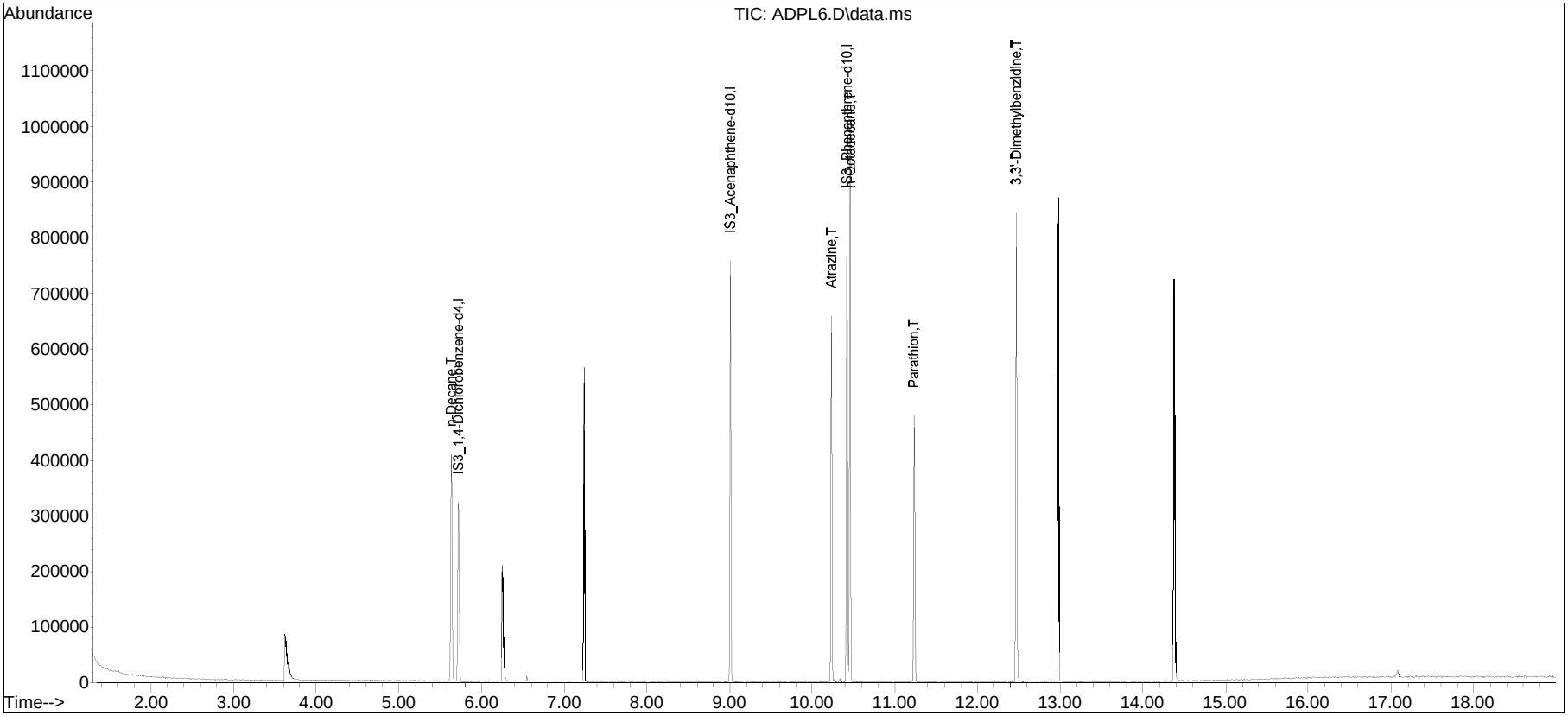
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL6.D
Acq On : 19 Apr 2024 6:29 am
Operator : SV106:cmm
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1911693,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 22 14:00:49 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL6.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:29 am	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL5.D
Acq On : 19 Apr 2024 6:52 am
Operator : SV106:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1911693,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 22 14:00:38 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	60499	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 99.48%			
85) IS3_Acenaphthene-d10	9.004	164	138965	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 98.48%			
99) IS3_Phenanthrene-d10	10.422	188	303909	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 95.02%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	52669	2.265	ug/ml#	39
86) Atrazine	10.233	200	33651	2.404	ug/ml	91
100) n-Octadecane	10.457	57	82445	2.467	ug/ml#	1
101) Parathion	11.227	109	19678	2.148	ug/ml	92
102) 3,3'-Dimethylbenzidine	12.463	212	114181	2.122	ug/ml	99

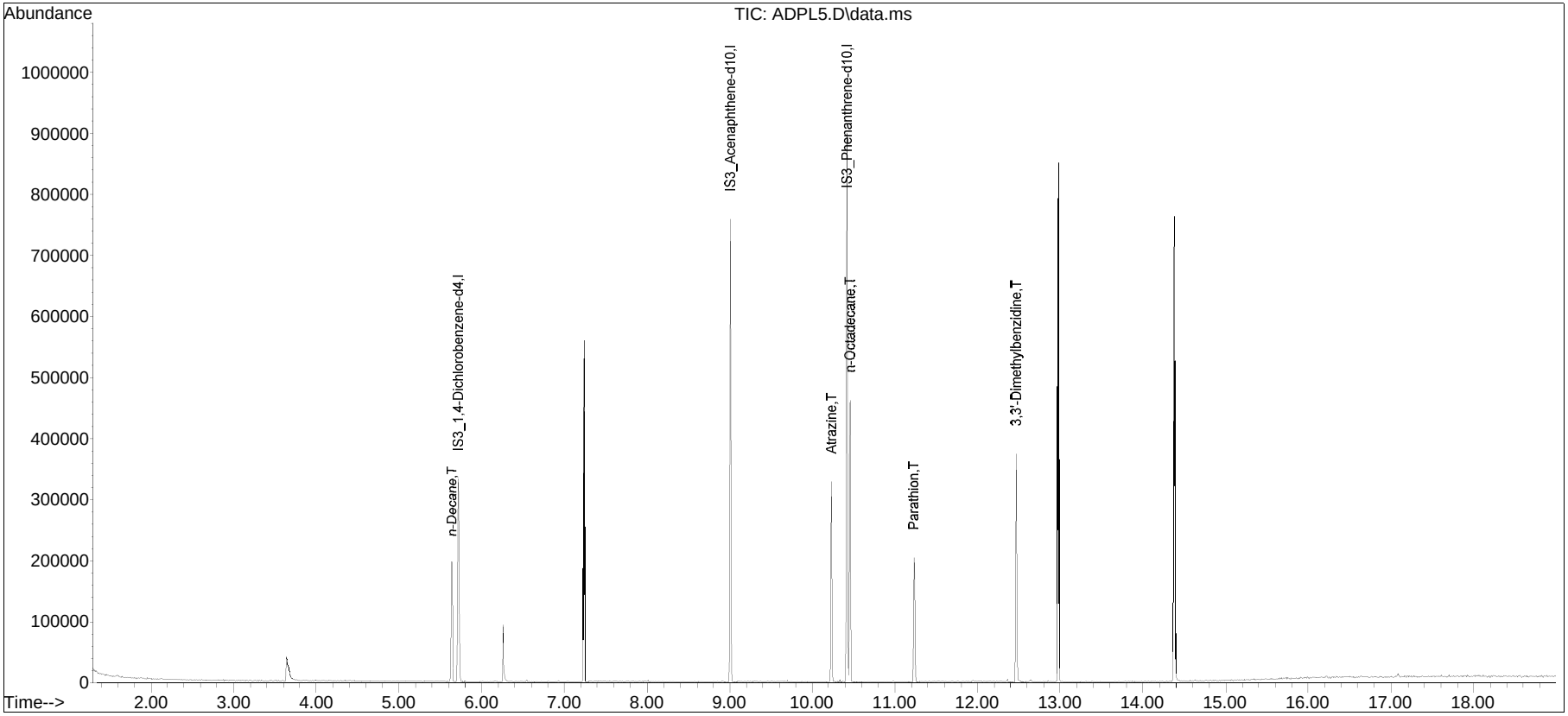
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL5.D
Acq On : 19 Apr 2024 6:52 am
Operator : SV106:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1911693,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 22 14:00:38 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL5.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 6:52 am	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL4.D
Acq On : 19 Apr 2024 7:16 am
Operator : SV106:cmm
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1911693,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 22 14:00:26 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.722	152	61116	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery =	100.50%		
85) IS3_Acenaphthene-d10	9.004	164	140850	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery =	99.82%		
99) IS3_Phenanthrene-d10	10.422	188	316520	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery =	98.96%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.640	57	24838	1.057	ug/ml#	39
86) Atrazine	10.233	200	15433	1.088	ug/ml	98
100) n-Octadecane	10.457	57	39542	1.136	ug/ml#	1
101) Parathion	11.227	109	9823	1.030	ug/ml#	93
102) 3,3'-Dimethylbenzidine	12.463	212	49877	1.108	ug/ml	99

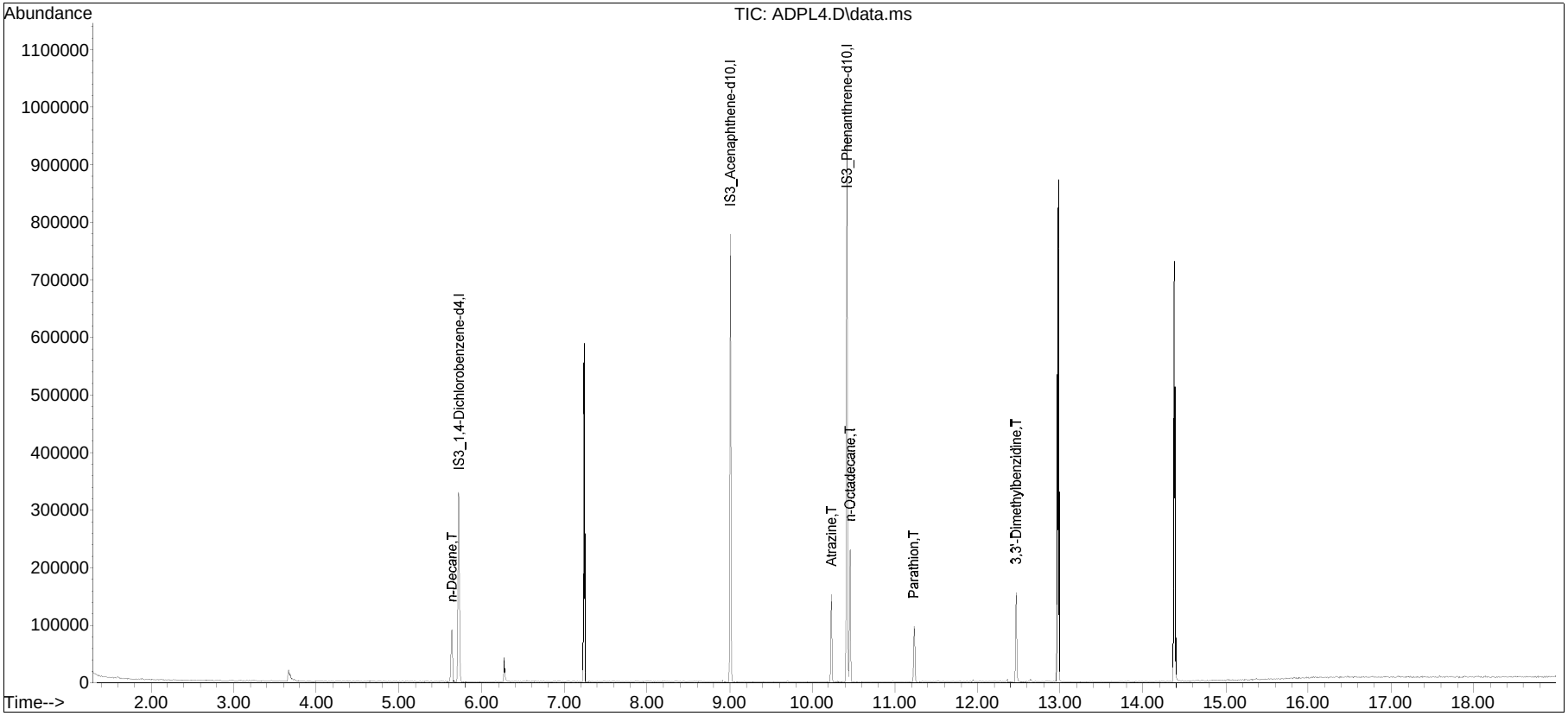
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL4.D
Acq On : 19 Apr 2024 7:16 am
Operator : SV106:cmm
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1911693,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 22 14:00:26 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL4.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 7:16 am	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL3.D
Acq On : 19 Apr 2024 7:40 am
Operator : SV106:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1911693,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 22 14:00:16 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	55261	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 90.87%			
85) IS3_Acenaphthene-d10	9.004	164	123031	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 87.19%			
99) IS3_Phenanthrene-d10	10.422	188	282776	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 88.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	11358	0.535	ug/ml#	45
86) Atrazine	10.233	200	5728	0.462	ug/ml#	88
100) n-Octadecane	10.457	57	12920	0.416	ug/ml#	1
101) Parathion	11.227	109	3569	0.419	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.463	212	16282	0.644	ug/ml	95

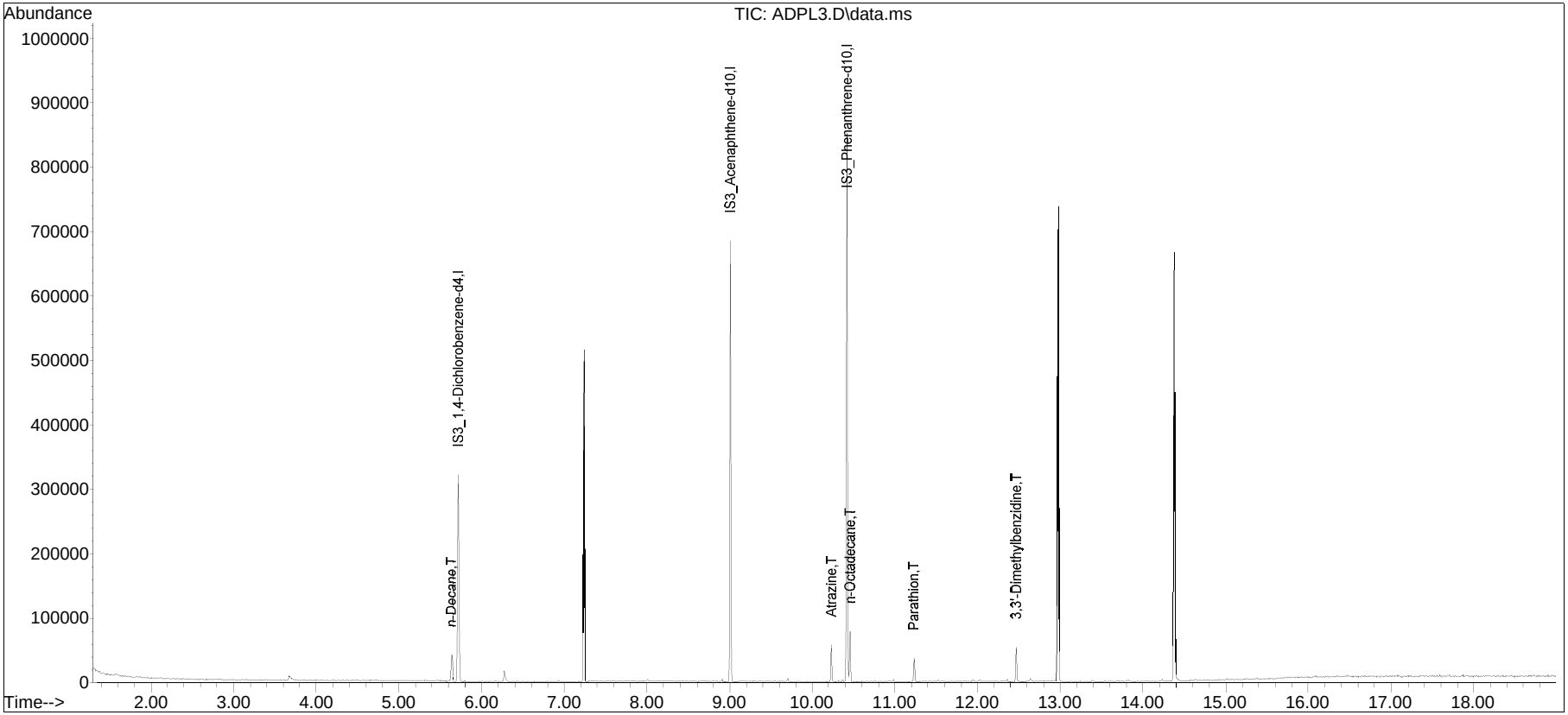
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL3.D
Acq On : 19 Apr 2024 7:40 am
Operator : SV106:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1911693,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 22 14:00:16 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL3.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 7:40 am	Instrument	: SV 106
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL2.D
Acq On : 19 Apr 2024 8:04 am
Operator : SV106:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1911693,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 22 14:00:05 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	59214	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 97.37%			
85) IS3_Acenaphthene-d10	9.004	164	140157	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 99.33%			
99) IS3_Phenanthrene-d10	10.421	188	310785	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 97.17%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.639	57	4813	0.211	ug/ml#	45
86) Atrazine	10.233	200	2398	0.170	ug/ml	96
100) n-Octadecane	10.457	57	6732	0.197	ug/ml#	1
101) Parathion	11.227	109	1510	0.161	ug/ml#	68
102) 3,3'-Dimethylbenzidine	12.463	212	5843	0.463	ug/ml#	93

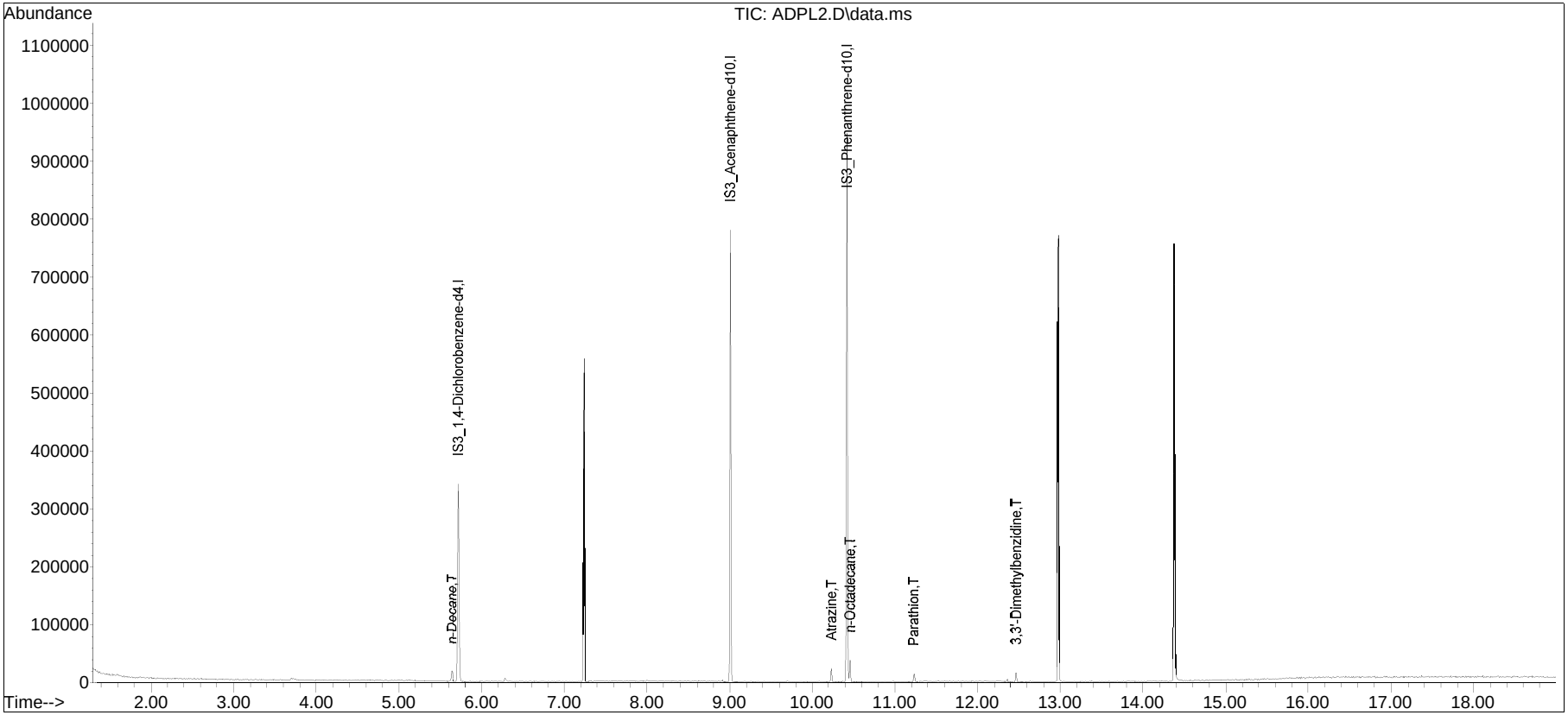
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL2.D
Acq On : 19 Apr 2024 8:04 am
Operator : SV106:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1911693,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 22 14:00:05 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL2.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:04 am	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 4/22/2024 2:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL1.D
Acq On : 19 Apr 2024 8:27 am
Operator : SV106:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1911693,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 22 13:59:54 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	57358	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 94.32%			
85) IS3_Acenaphthene-d10	9.004	164	130946	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 92.80%			
99) IS3_Phenanthrene-d10	10.422	188	297260	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 92.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	2357	0.107	ug/ml#	38
86) Atrazine	10.233	200	1203	0.091	ug/ml#	33
100) n-Octadecane	10.451	57	3082	0.094	ug/ml#	1
101) Parathion	11.227	109	790	0.088	ug/ml#	65
102) 3,3'-Dimethylbenzidine	12.463	212	2344	0.413	ug/ml#	62

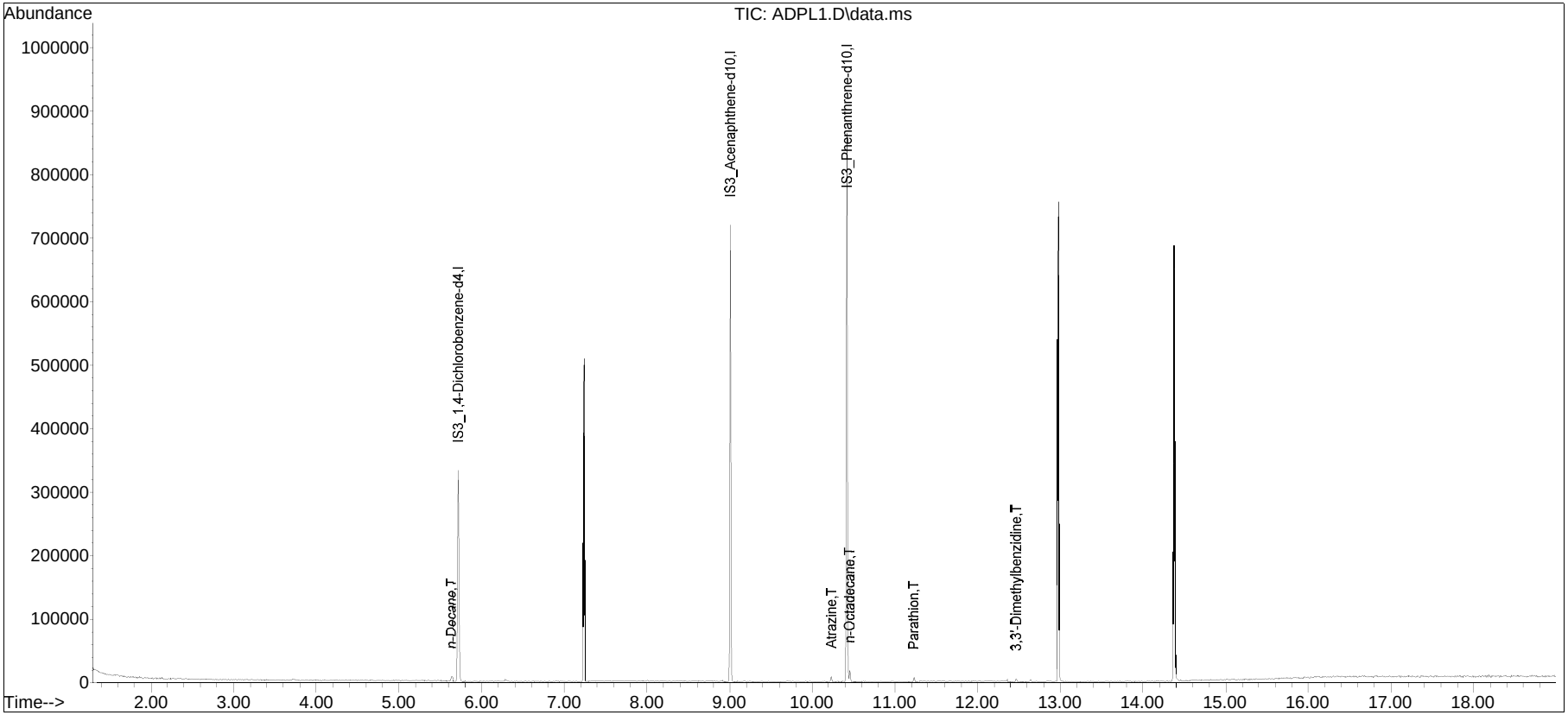
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPL1.D
Acq On : 19 Apr 2024 8:27 am
Operator : SV106:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1911693,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 22 13:59:54 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPL1.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:27 am	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.1 Lot# 1071	Quant Date	: 4/22/2024 1:59 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
33	T	n-Decane		1.537	1.472	4.2	96	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
86	T	Atrazine		0.403	0.352	12.7	87	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	94	0.00
100	T	n-Octadecane		0.440	0.425	3.4	93	0.00
101	T	Parathion		0.121	0.103	14.9	90	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	3.860	22.8#	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240418RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.716	152	56052	4.000	ug/ml	0.00
Standard Area 1 = 60814			Recovery = 92.17%			
85) IS3_Acenaphthene-d10	9.004	164	136265	4.000	ug/ml	0.00
Standard Area 1 = 141108			Recovery = 96.57%			
99) IS3_Phenanthrene-d10	10.422	188	301444	4.000	ug/ml	0.00
Standard Area 1 = 319847			Recovery = 94.25%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.634	57	103130	4.787	ug/ml#	40
86) Atrazine	10.233	200	59991	4.371	ug/ml	93
100) n-Octadecane	10.457	57	160135	4.831	ug/ml#	1
101) Parathion	11.227	109	38821	4.273	ug/ml	95
102) 3,3'-Dimethylbenzidine	12.463	212	226005	3.860	ug/ml	99

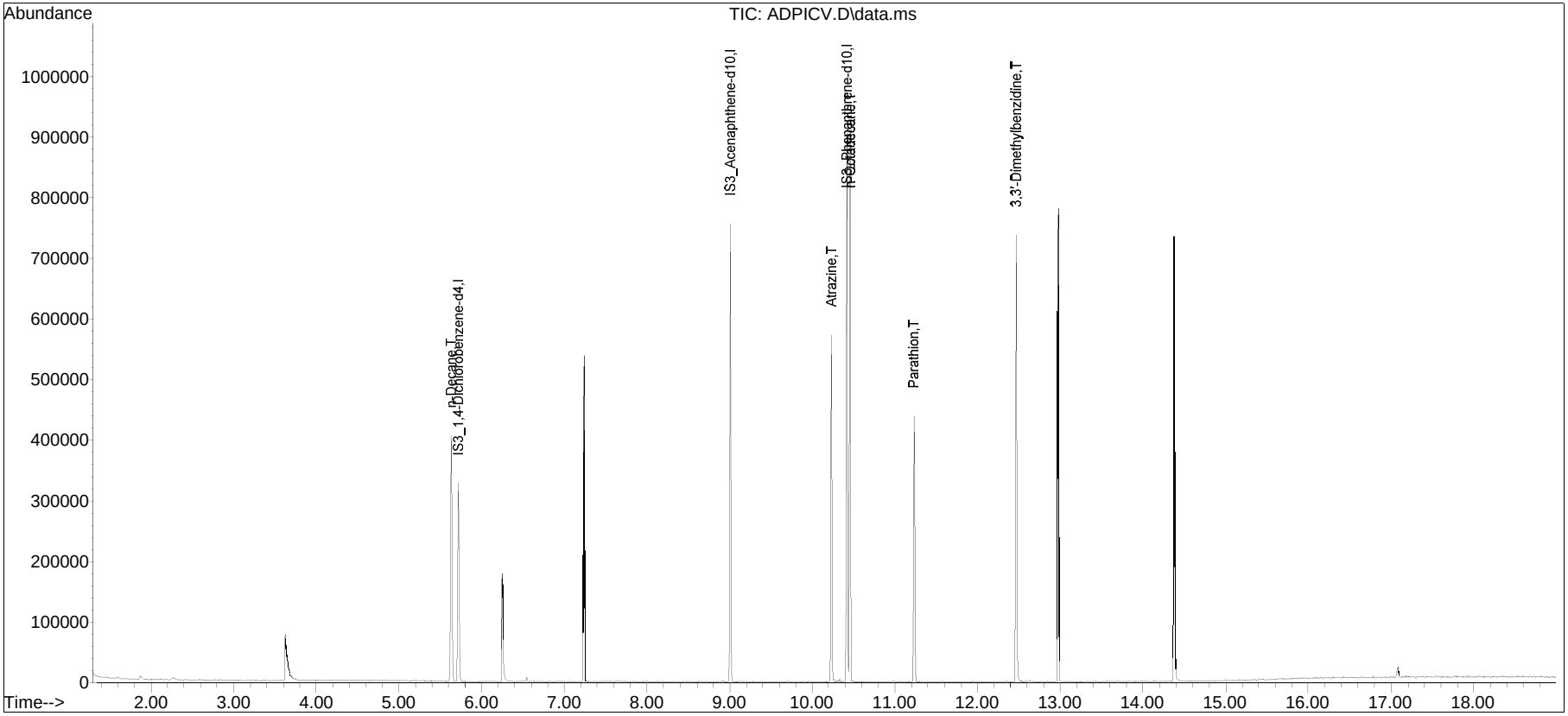
(#) = qualifier out of range (m) = manual integration (+) = signals summed

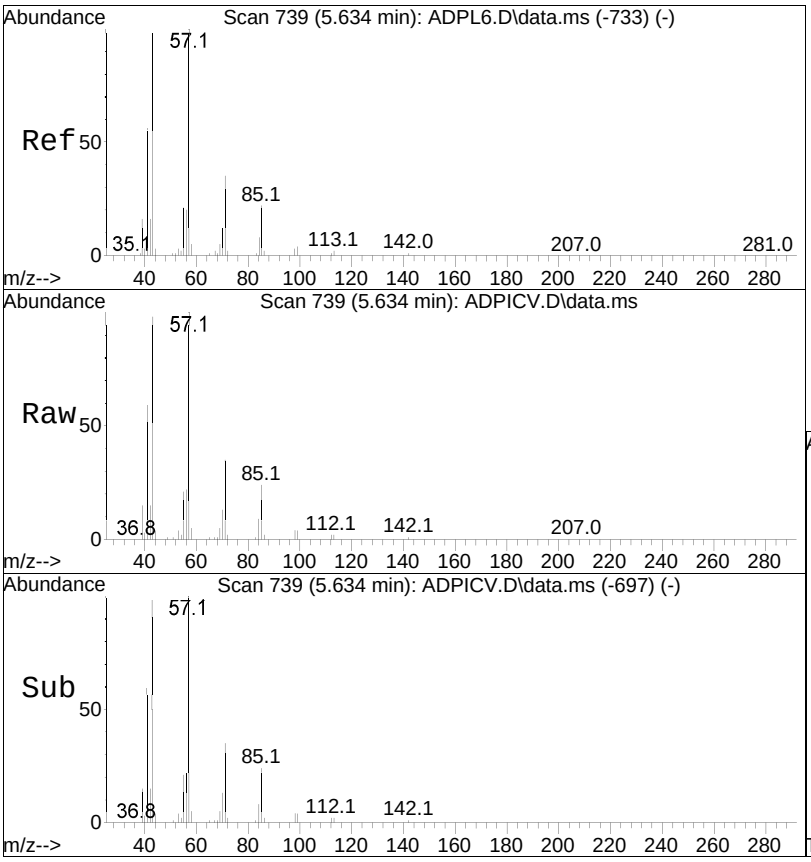
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240418RVTical\
Data File : ADPICV.D
Acq On : 19 Apr 2024 8:51 am
Operator : SV106:cmm
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1911693,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 22 13:59:44 2024
Quant Method : I:\8270\SV106\240418RVTical\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Apr 22 13:44:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

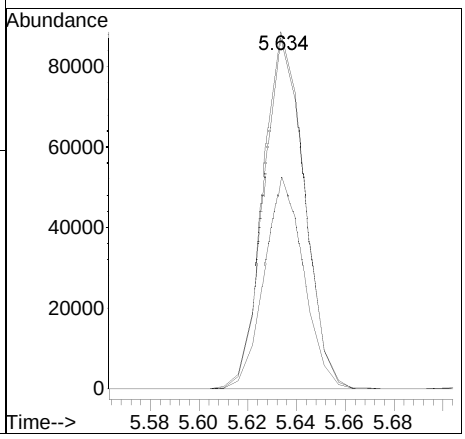


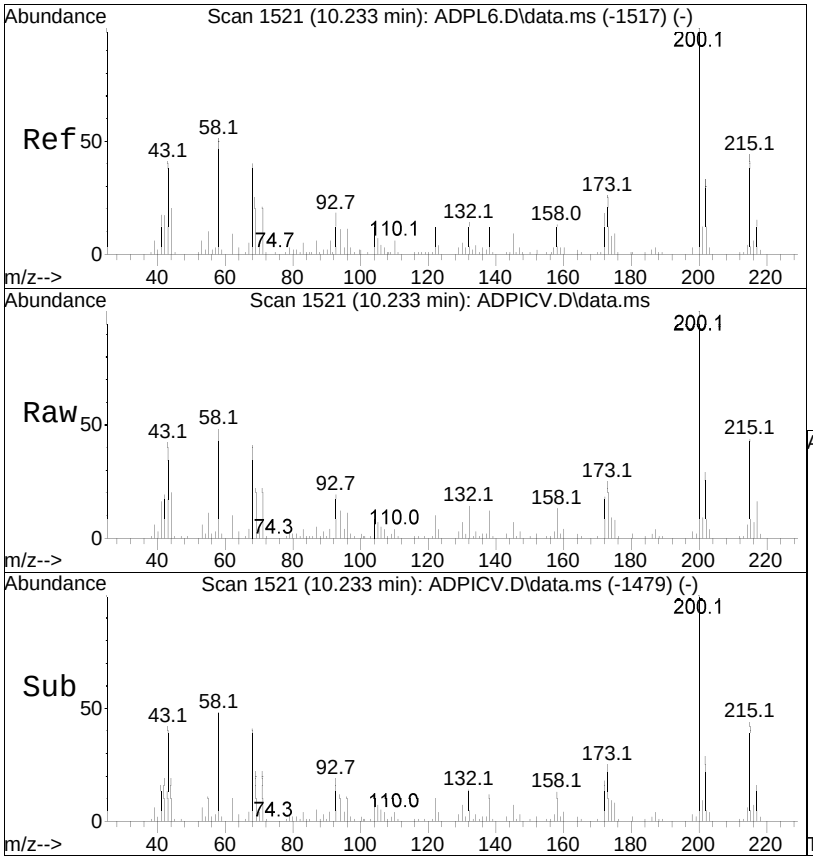


#33
n-Decane
Concen: 4.79 ug/ml
RT: 5.634 min Scan# 739
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion: 57 Resp: 103130

Ion	Ratio	Lower	Upper
57	100		
43	97.7	0.2	0.2#
41	57.1	0.2	0.2#

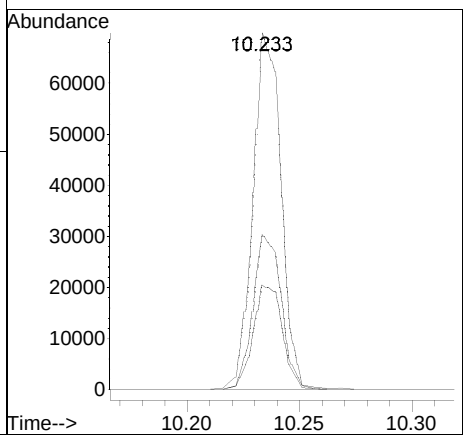


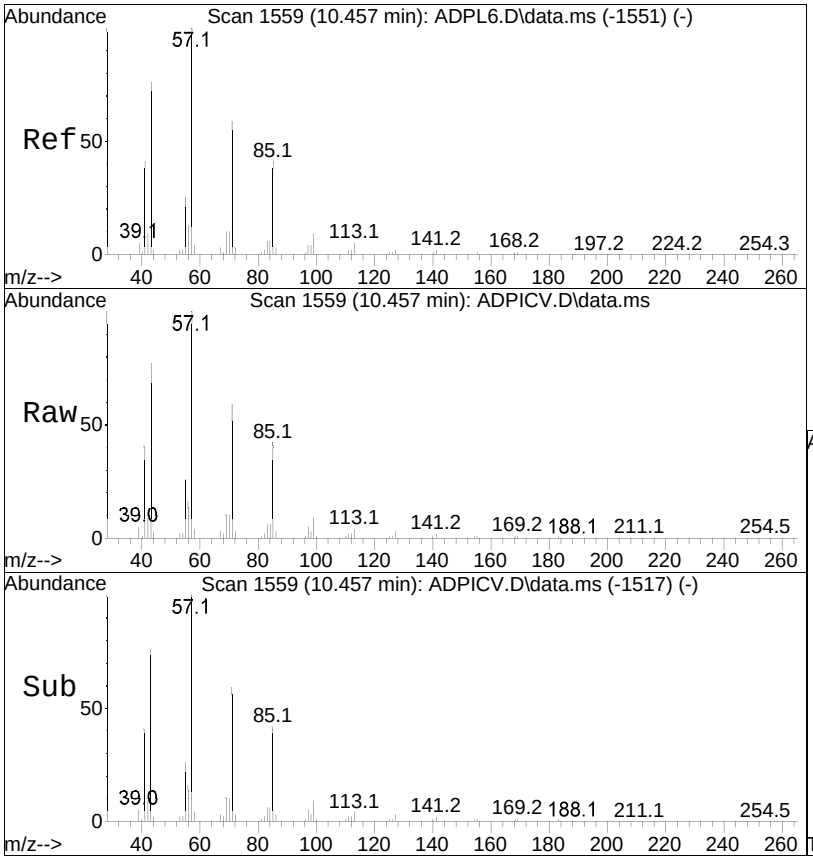


#86
Atrazine
Concen: 4.37 ug/ml
RT: 10.233 min Scan# 1521
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:200 Resp: 59991

Ion	Ratio	Lower	Upper
200	100		
202	30.7	25.8	38.6
215	43.8	40.2	60.4

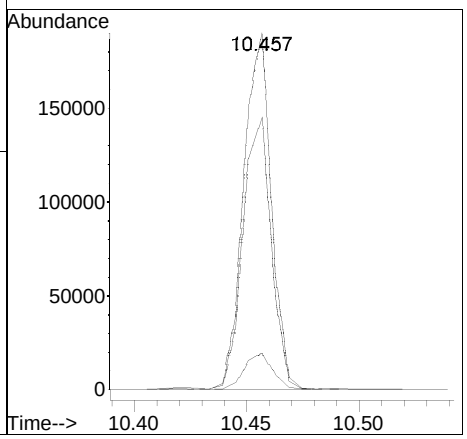


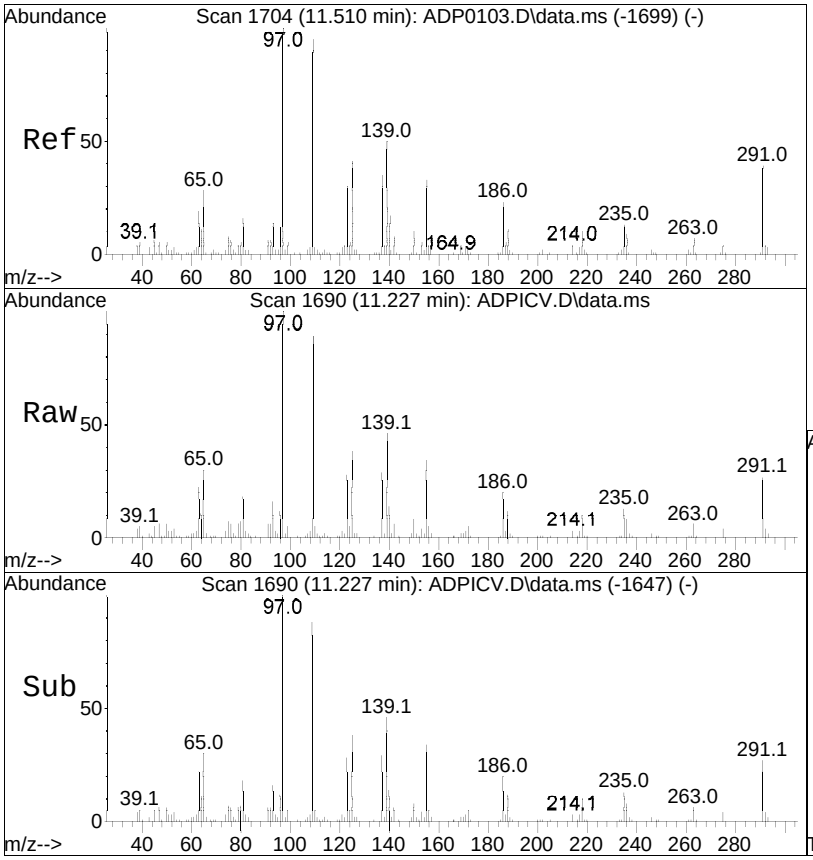


#100
n-Octadecane
Concen: 4.83 ug/ml
RT: 10.457 min Scan# 1559
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion: 57 Resp: 160135

Ion	Ratio	Lower	Upper
57	100		
43	78.6	9.0	13.6#
70	10.5	0.2	0.2#

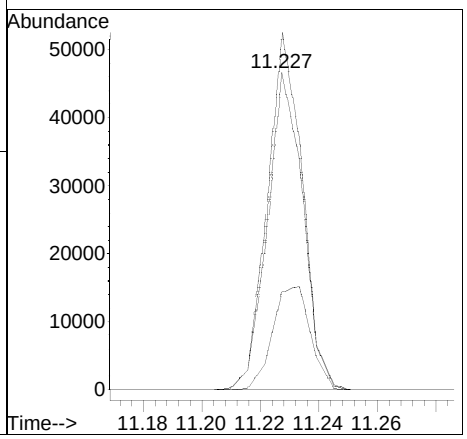


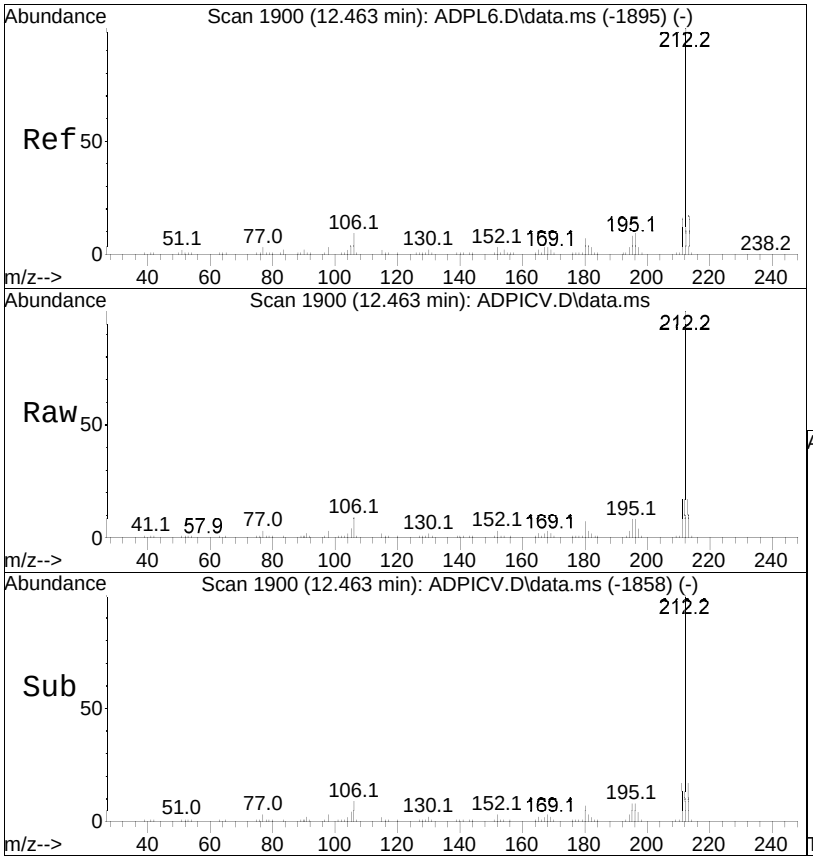


#101
Parathion
Concen: 4.27 ug/ml
RT: 11.227 min Scan# 1690
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:109 Resp: 38821

Ion	Ratio	Lower	Upper
109	100		
97	111.5	87.4	131.2
291	35.2	34.2	51.2

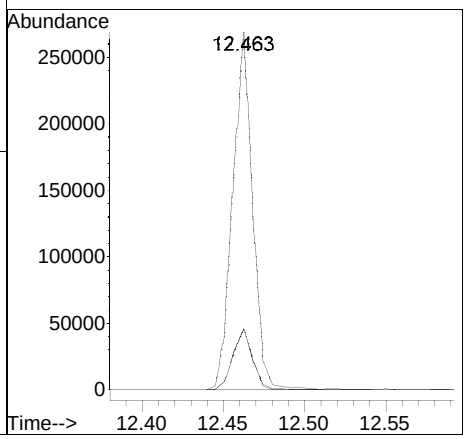




#102
3,3'-Dimethylbenzidine
Concen: 3.86 ug/ml
RT: 12.463 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Apr 2024 8:51 am

Tgt Ion:212 Resp: 226005

Ion	Ratio	Lower	Upper
212	100		
211	16.8	12.9	19.3
213	17.0	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\240418RVTica	QMethod	: FS240418SV106.m
Data File	: ADPICV.D	Operator	: SV106:cmm
Date Inj'd	: 4/19/2024 8:51 am	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 4/22/2024 1:59 pm

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\240418RVTical\
Method File : FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Apr 19 13:48:18 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	Q	ug/ml	5.0	4.500	-10.0	0.20	0.262	31.0
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.398	-12.0	0.50	0.588	17.6
102	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.215	-15.7	0.50	0.644	28.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Quadratic	0.998390	0.002617	0.272206	-0.0153336
65	T 2,4-Dinitrophenol	Linear	0.998311	0.000000	0.197224	-0.0165379
102	T 3,3'-Dimethylbenzidine	Linear	0.992893	0.000000	0.860753	-0.080911

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

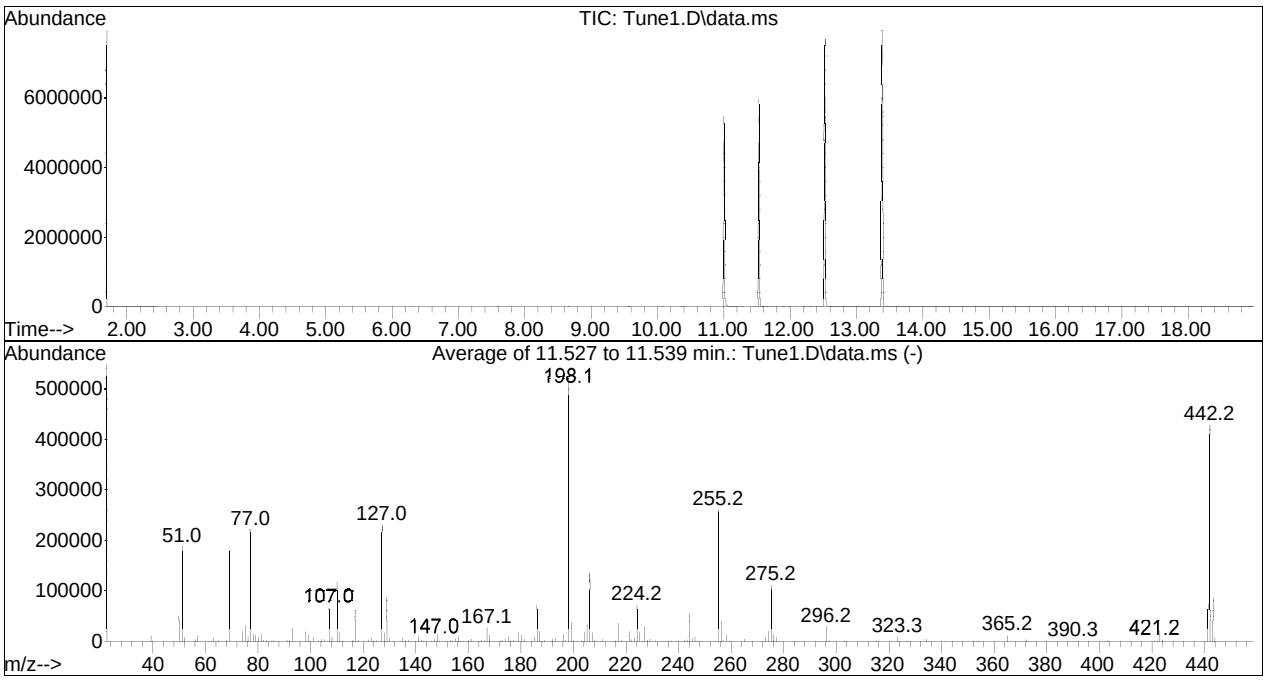
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



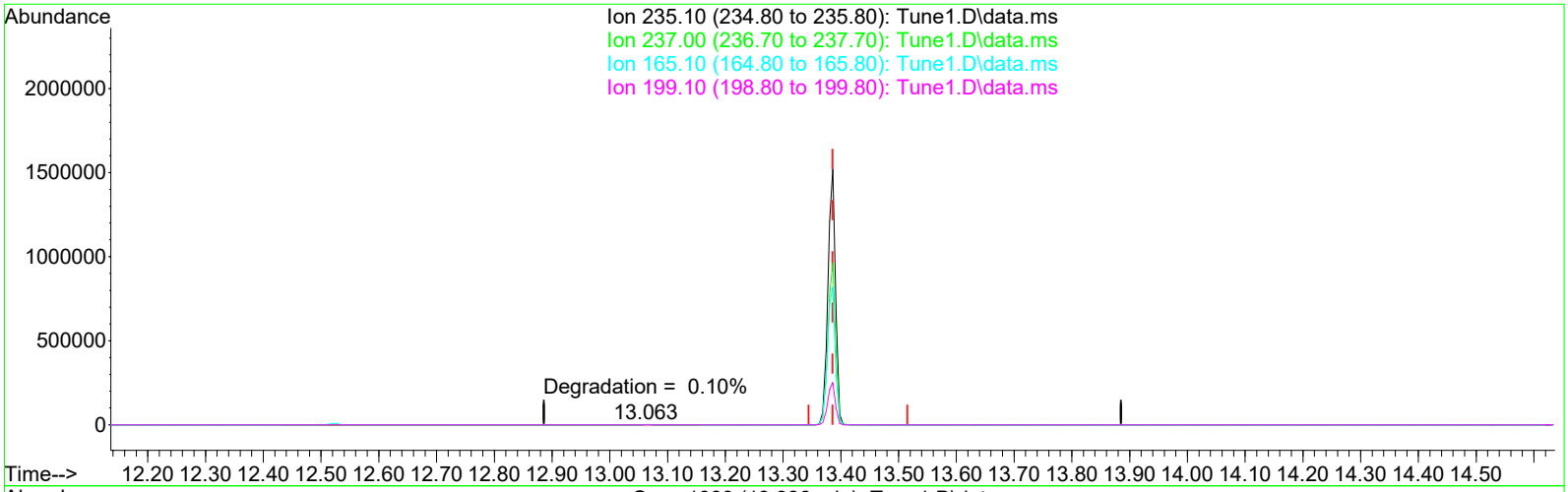
Spectrum Information: Average of 11.527 to 11.539 min.

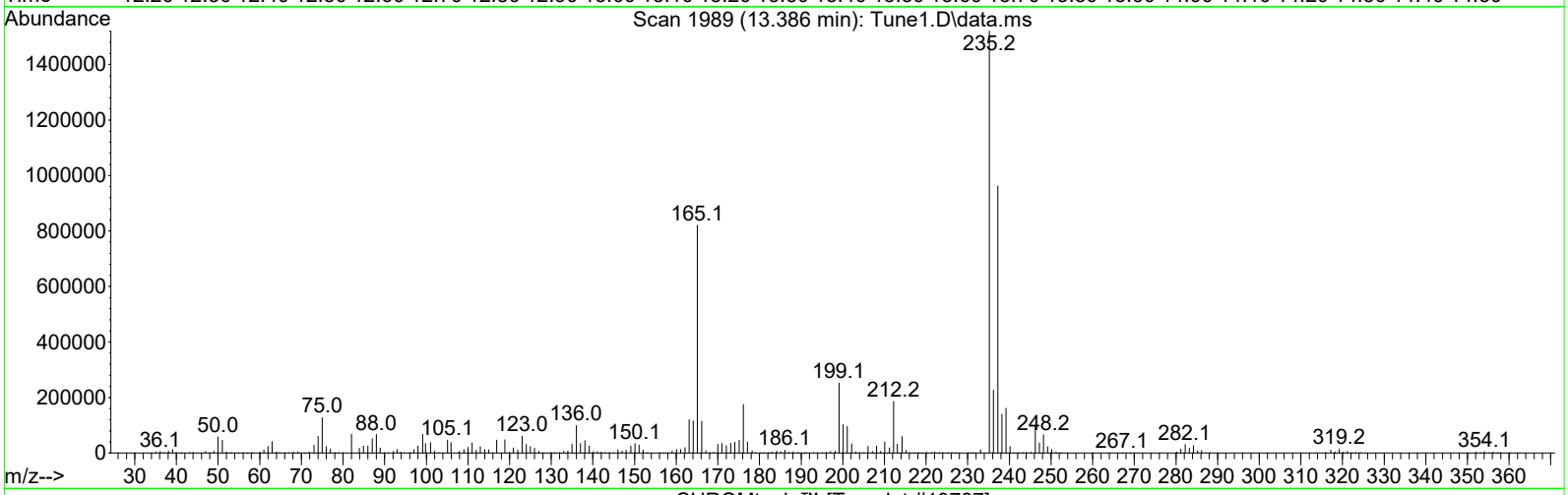
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

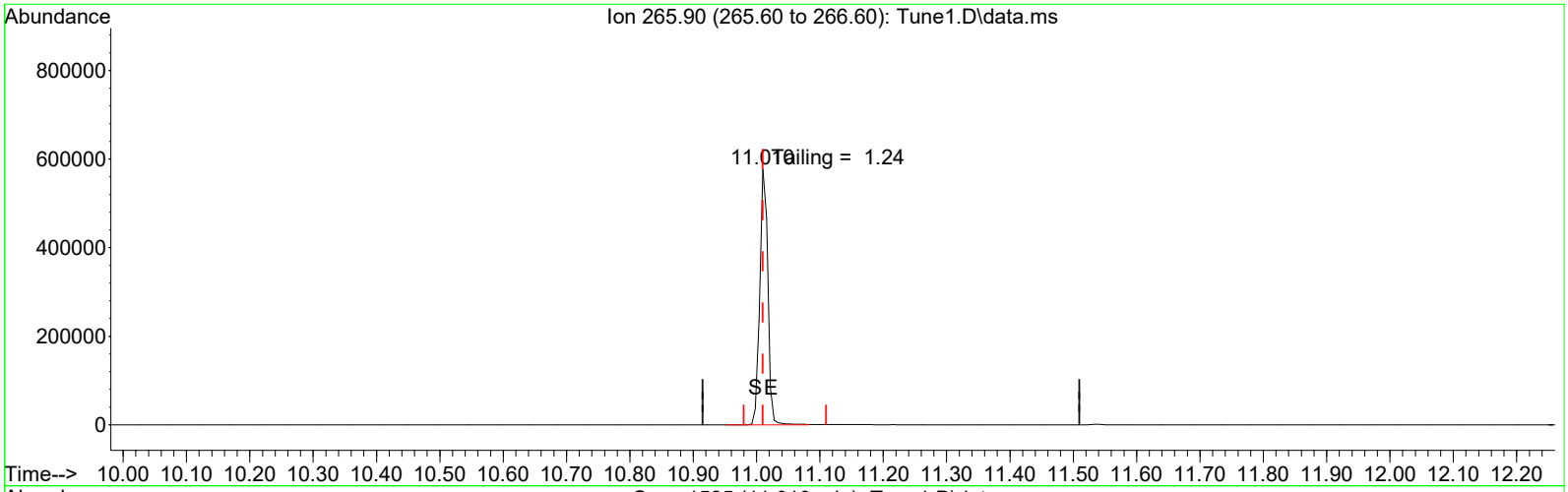
response 1395788

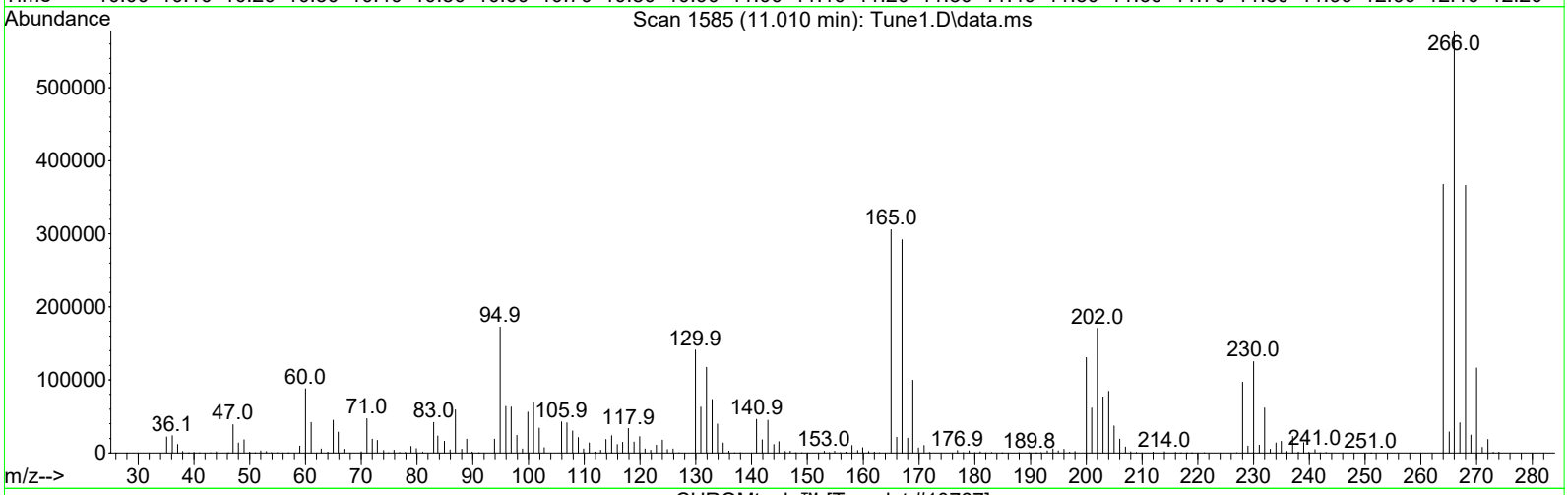
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

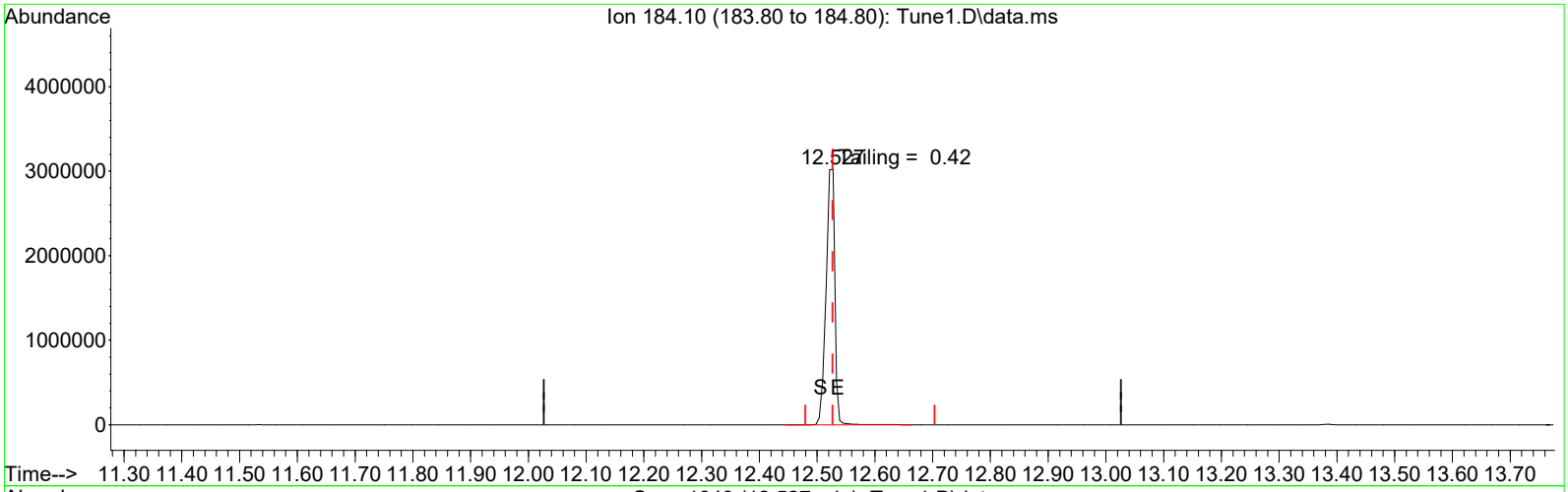
Duplicate Retention Times

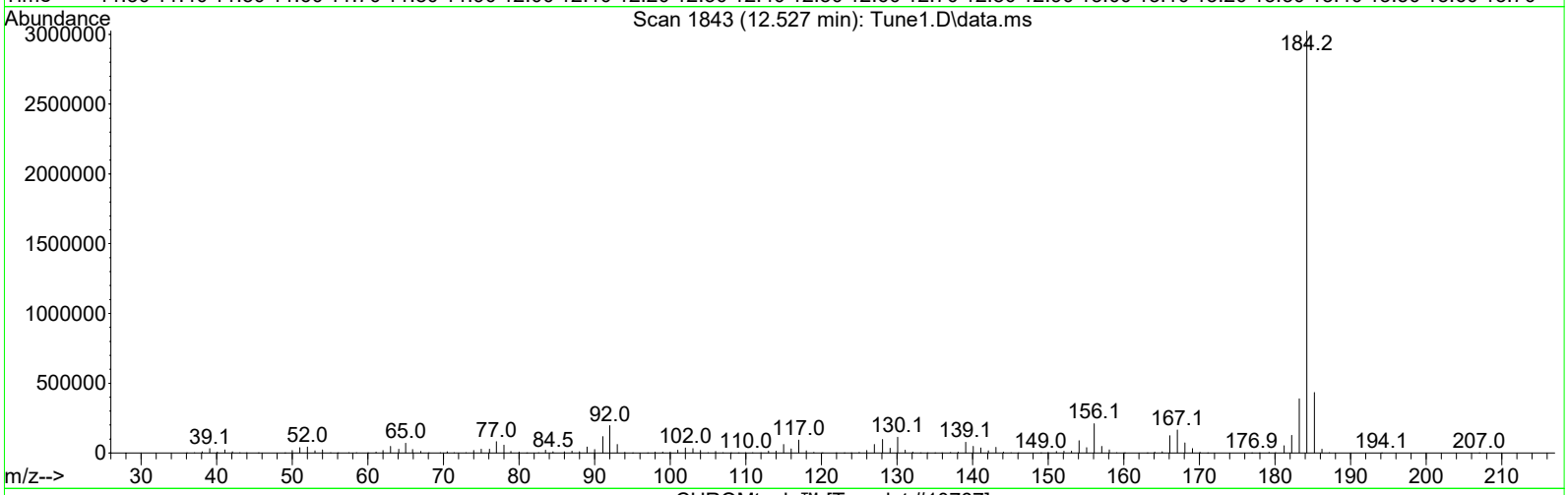
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

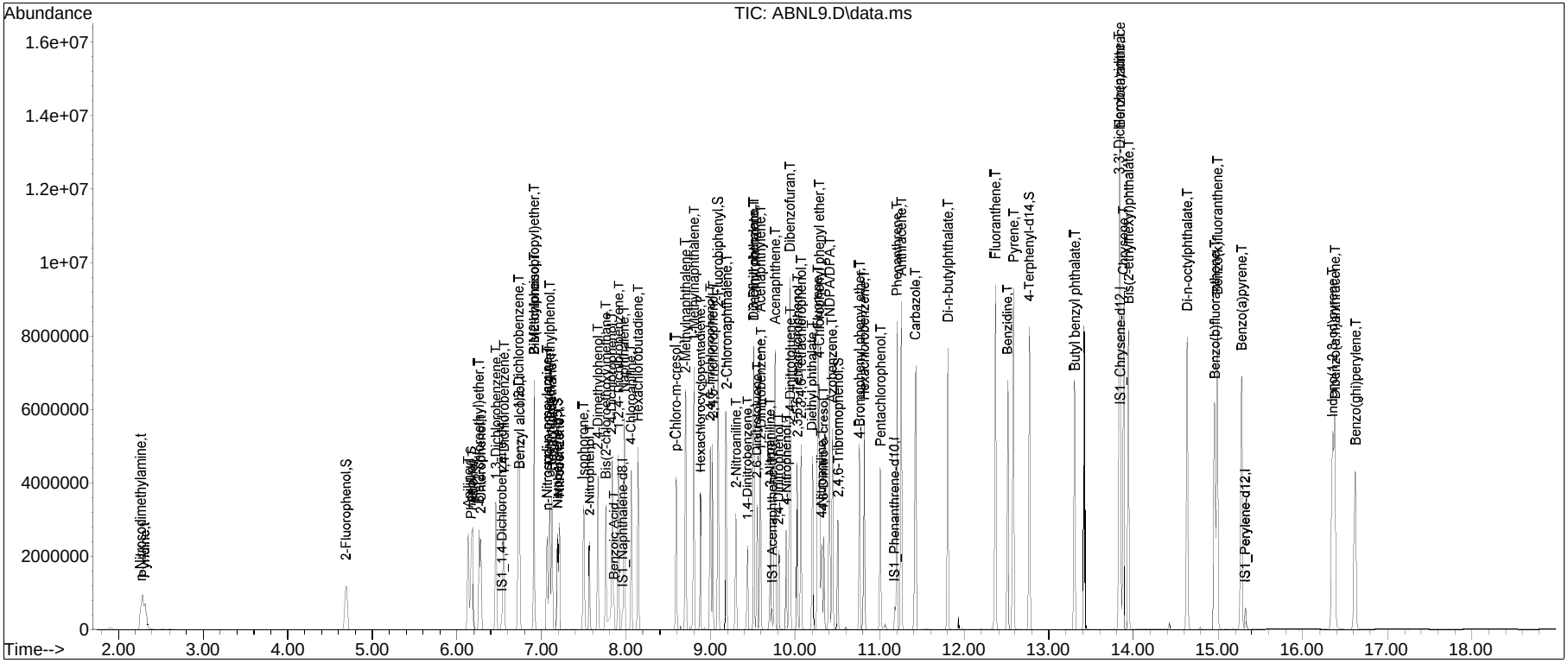
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

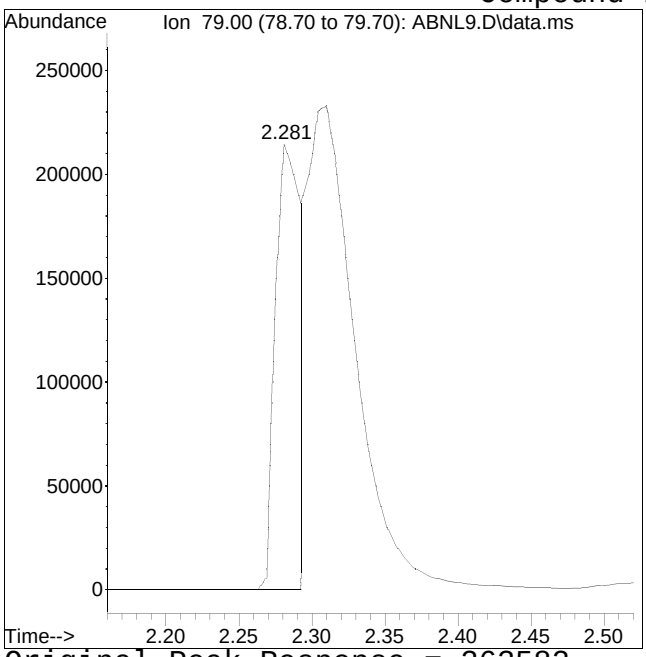
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

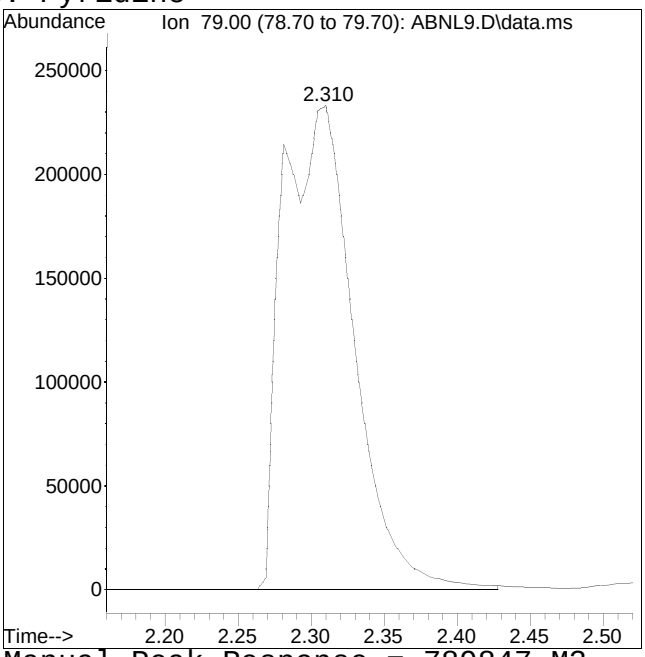


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



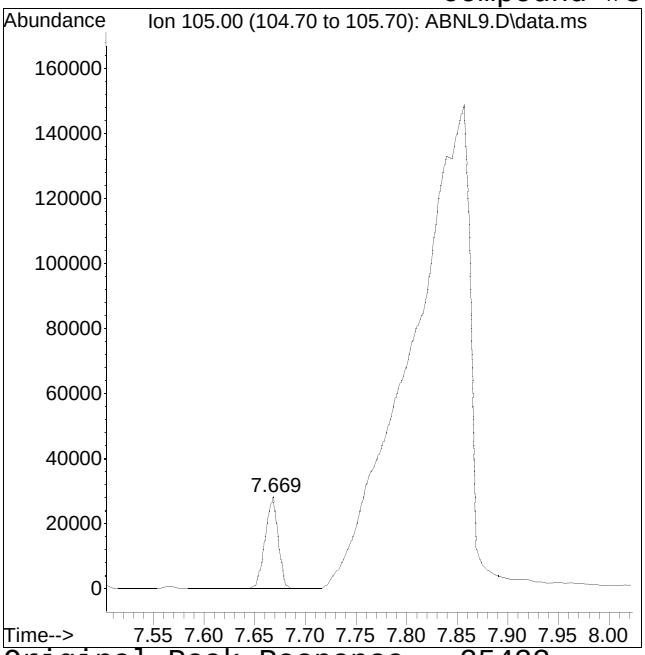


Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

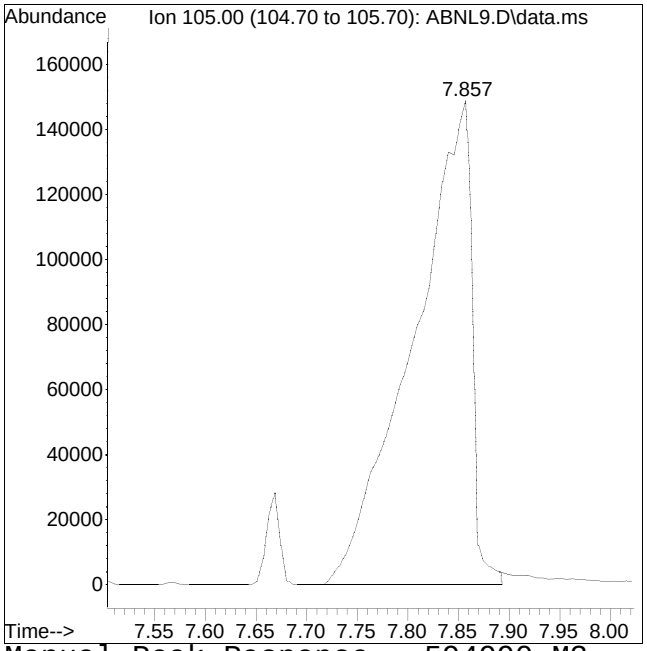
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid



Original Peak Response = 25433



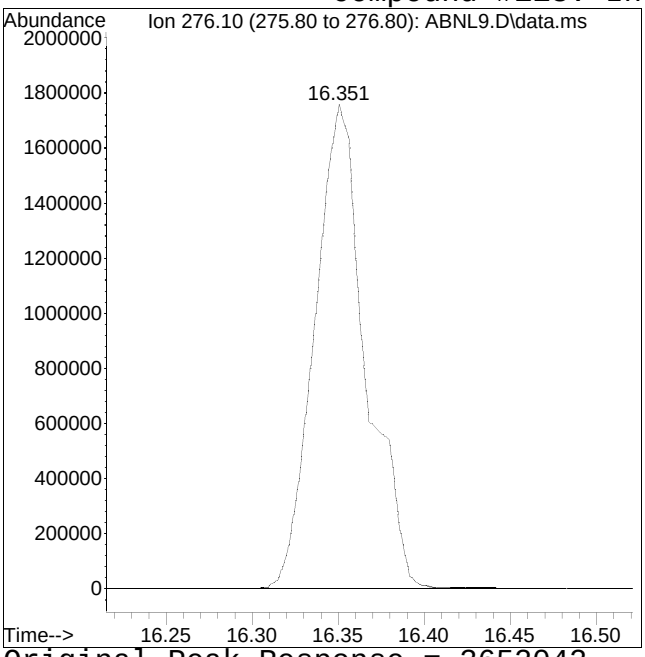
Manual Peak Response = 594990 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

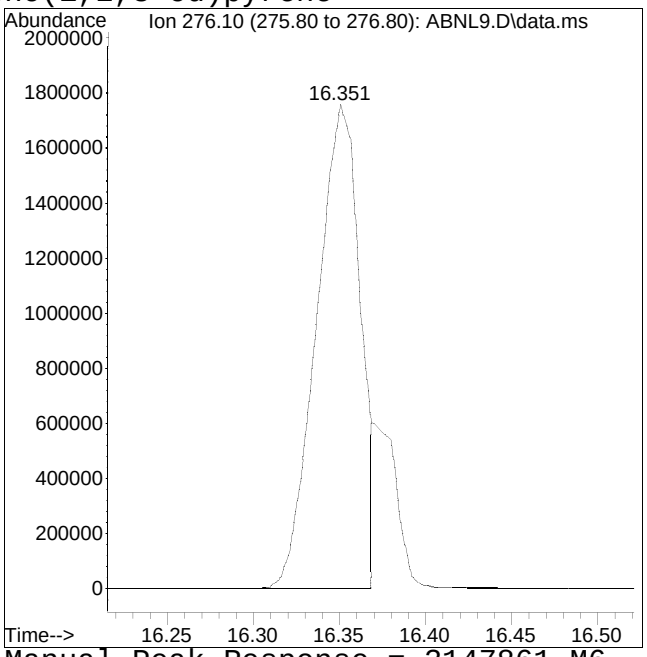
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml	97
71) Diethyl phthalate	10.198	149	990417	24.518	ug/ml	97
72) Fluorene	10.269	166	987372	22.865	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml	90
74) 4-Nitroaniline	10.298	138	227044	23.991	ug/ml	85
75) 4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml#	61
76) NDPA/DPA	10.404	169	848079	24.477	ug/ml	94
77) Azobenzene	10.433	77	953697	23.421	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml#	89
80) Hexachlorobenzene	10.810	284	306799	23.810	ug/ml#	87
81) Pentachlorophenol	11.004	266	210091	25.965	ug/ml	99
88) Phenanthrene	11.198	178	1516863	22.574	ug/ml	98
89) Anthracene	11.245	178	1559998	24.573	ug/ml	98
90) Carbazole	11.416	167	1455059	25.268	ug/ml	97
91) Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml	98
92) Fluoranthene	12.357	202	1819916	25.179	ug/ml#	92
93) Benzidine	12.510	184	1205192	30.881	ug/ml#	95
94) Pyrene	12.580	202	1934804	24.736	ug/ml	98
96) Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml	93
104) Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml#	96
106) Chrysene	13.868	228	1707374	22.372	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml#	97
108) Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml#	73
109) Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml#	93
110) Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml#	95
111) Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml#	91
115) Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml#	89

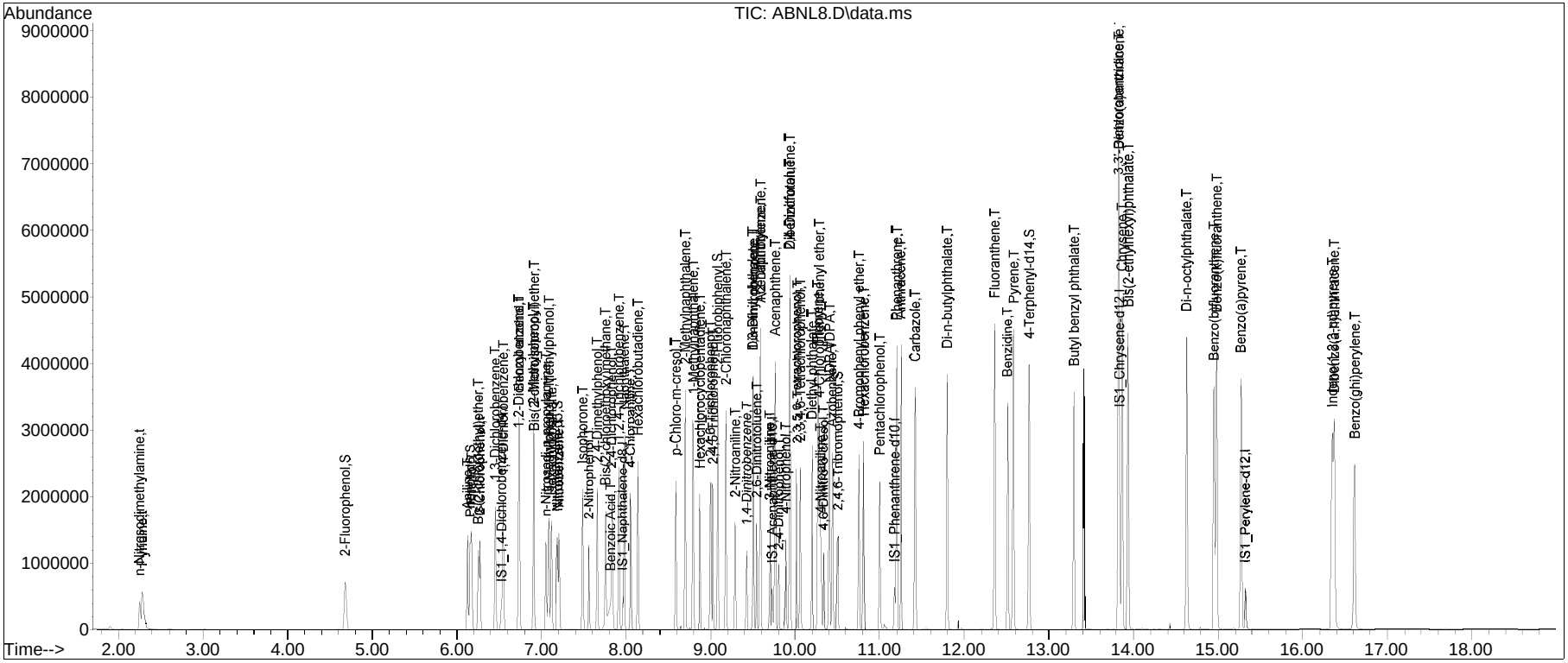
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

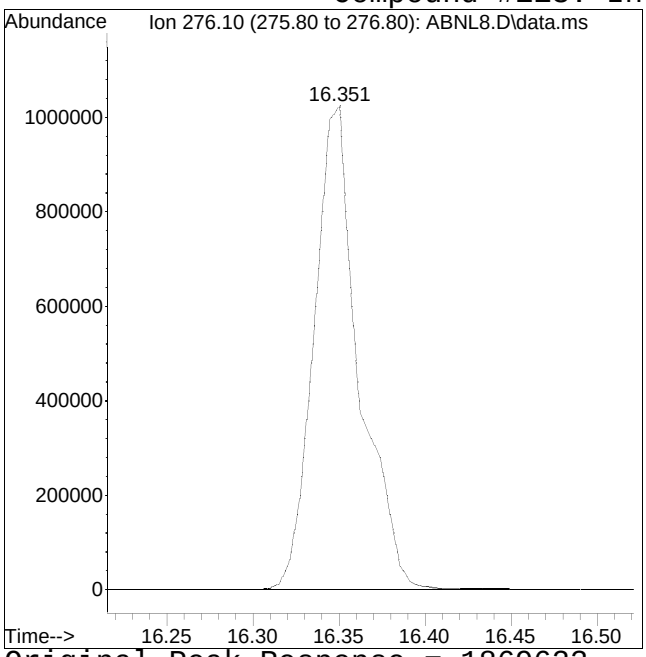
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



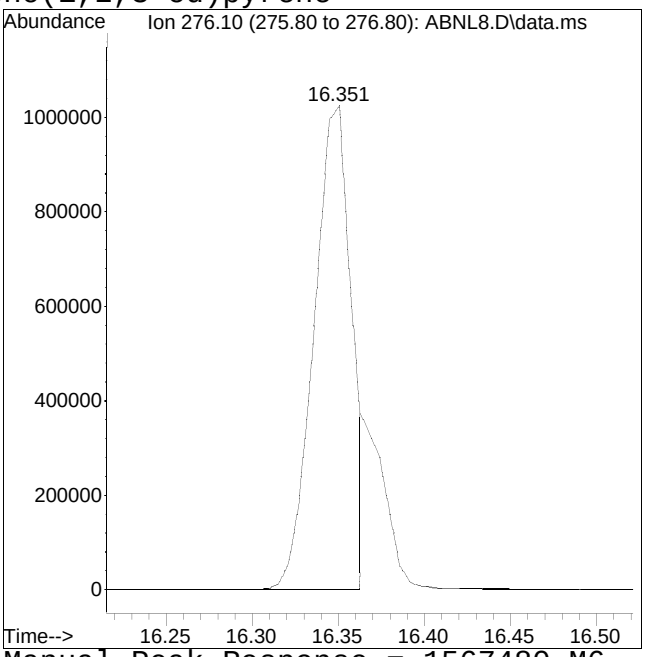
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml	97
71)	Diethyl phthalate	10.192	149	399950	10.217	ug/ml	97
72)	Fluorene	10.263	166	400866	9.580	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml	89
74)	4-Nitroaniline	10.292	138	90166	9.832	ug/ml	84
75)	4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml#	61
76)	NDPA/DPA	10.398	169	346541	10.322	ug/ml	96
77)	Azobenzene	10.433	77	391138	9.913	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml#	88
80)	Hexachlorobenzene	10.810	284	126399	10.123	ug/ml#	87
81)	Pentachlorophenol	11.004	266	82964	10.741	ug/ml	99
88)	Phenanthrene	11.192	178	617237	9.156	ug/ml	99
89)	Anthracene	11.245	178	640850	10.062	ug/ml	99
90)	Carbazole	11.410	167	585984	10.143	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml	99
92)	Fluoranthene	12.357	202	737284	10.168	ug/ml#	92
93)	Benzidine	12.510	184	483670	12.353	ug/ml#	95
94)	Pyrene	12.574	202	780477	9.946	ug/ml	99
96)	Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml	92
104)	Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml#	97
106)	Chrysene	13.868	228	707807	9.240	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml#	95
108)	Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml#	93
111)	Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml#	91
115)	Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml#	88

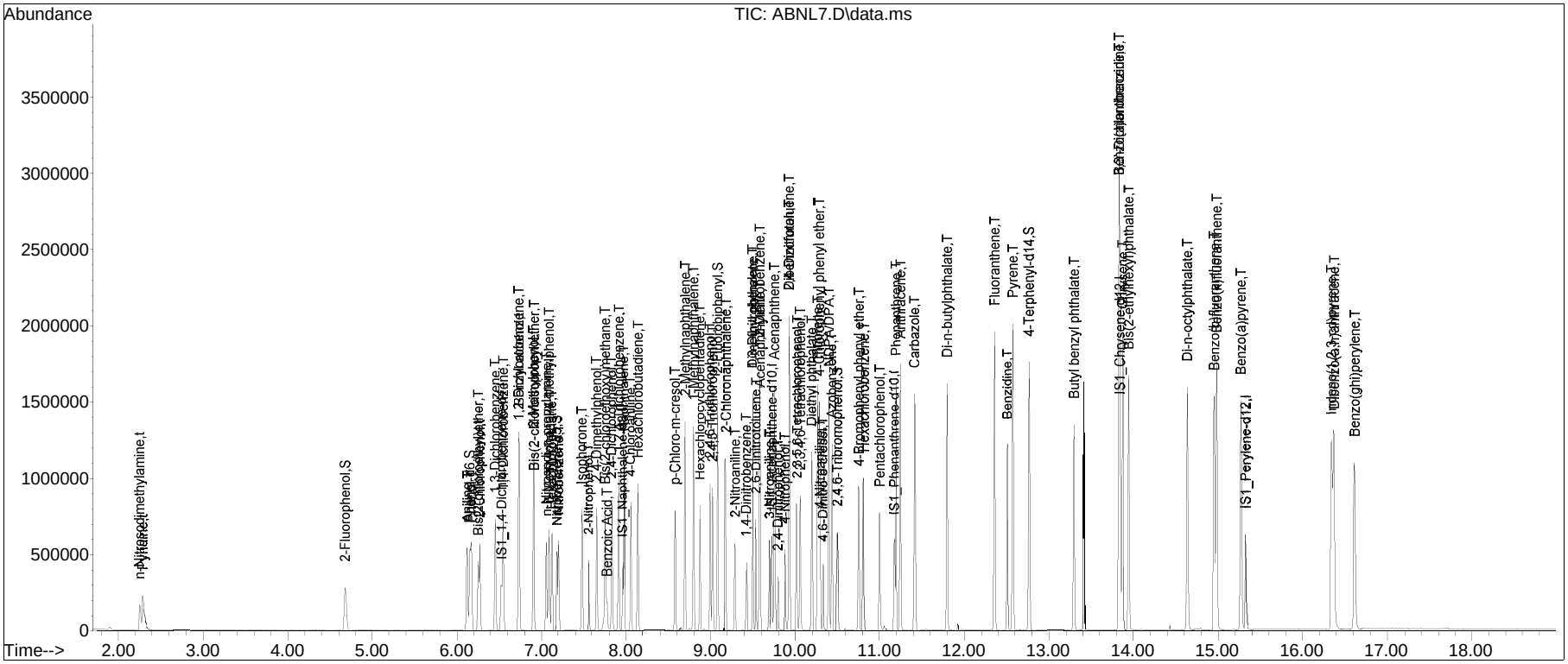
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

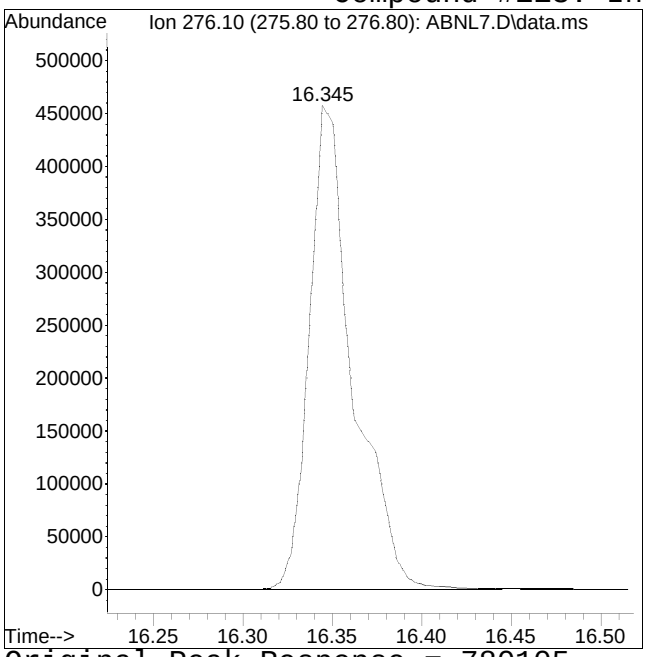
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



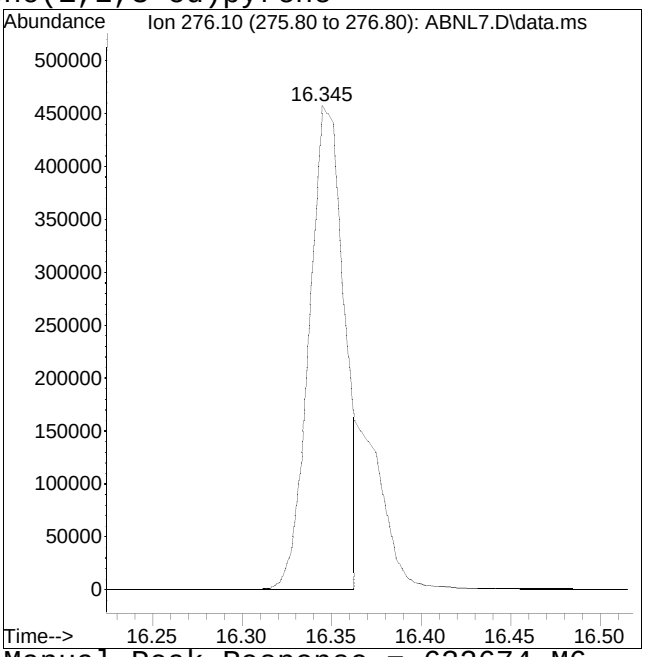
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml		99
71)	Diethyl phthalate	10.192	149	185259	4.592	ug/ml		97
72)	Fluorene	10.263	166	191054	4.430	ug/ml		93
73)	4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml		89
74)	4-Nitroaniline	10.286	138	38840	4.109	ug/ml	#	87
75)	4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml	#	63
76)	NDPA/DPA	10.398	169	163792	4.734	ug/ml		95
77)	Azobenzene	10.433	77	185513	4.562	ug/ml		97
79)	4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml	#	87
80)	Hexachlorobenzene	10.810	284	60424	4.696	ug/ml	#	86
81)	Pentachlorophenol	11.004	266	36681	4.762	ug/ml		98
88)	Phenanthrene	11.192	178	298395	4.256	ug/ml		99
89)	Anthracene	11.245	178	297441	4.490	ug/ml		98
90)	Carbazole	11.410	167	277150	4.612	ug/ml		98
91)	Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml		99
92)	Fluoranthene	12.357	202	344549	4.568	ug/ml	#	91
93)	Benzidine	12.504	184	212574	5.220	ug/ml	#	95
94)	Pyrene	12.574	202	366283	4.488	ug/ml		99
96)	Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml		93
104)	Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml		99
105)	3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml	#	96
106)	Chrysene	13.863	228	340032	4.284	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml	#	95
108)	Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml	#	74
109)	Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml	#	94
110)	Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml	#	93
111)	Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml	#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL		
114)	Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml	#	90
115)	Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml	#	88

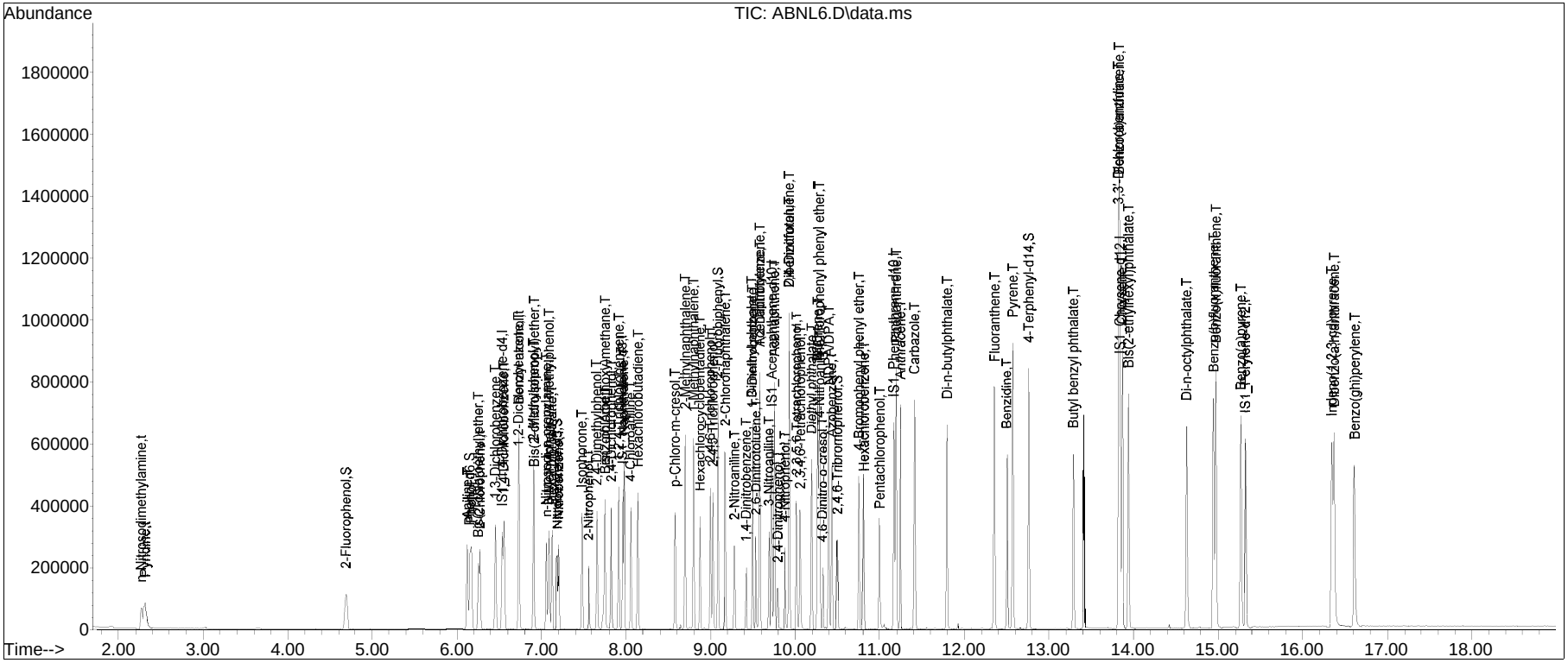
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

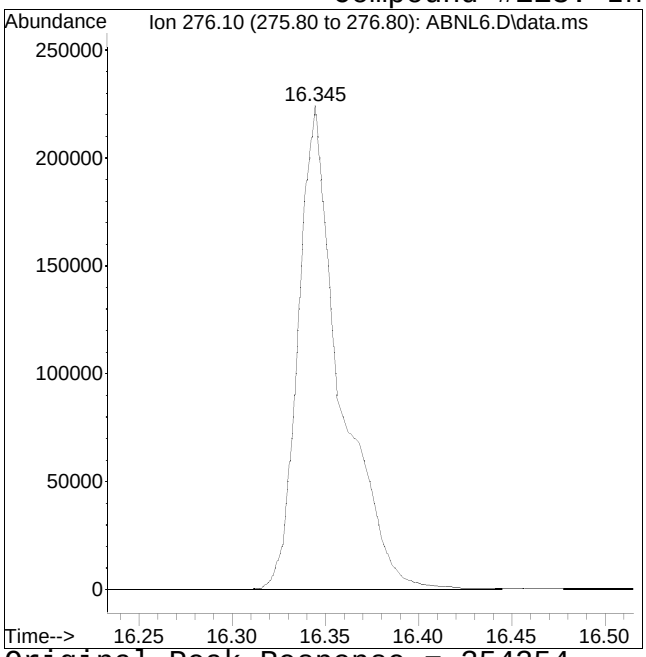
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



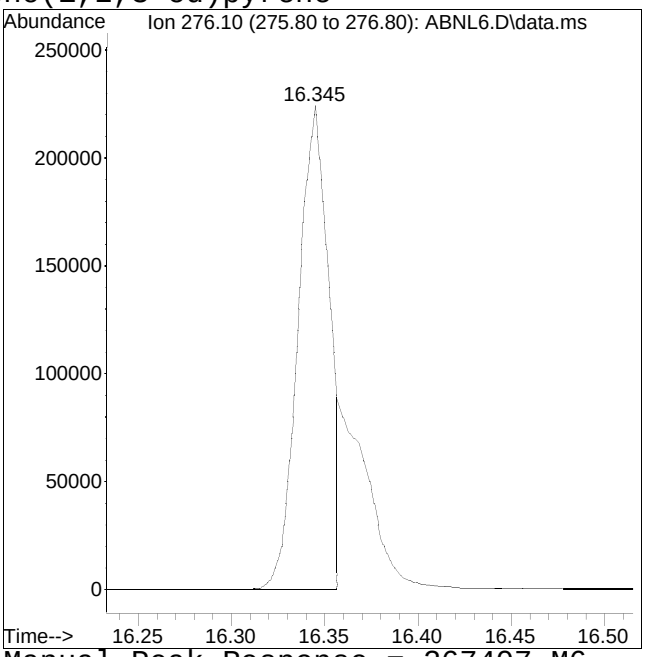
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

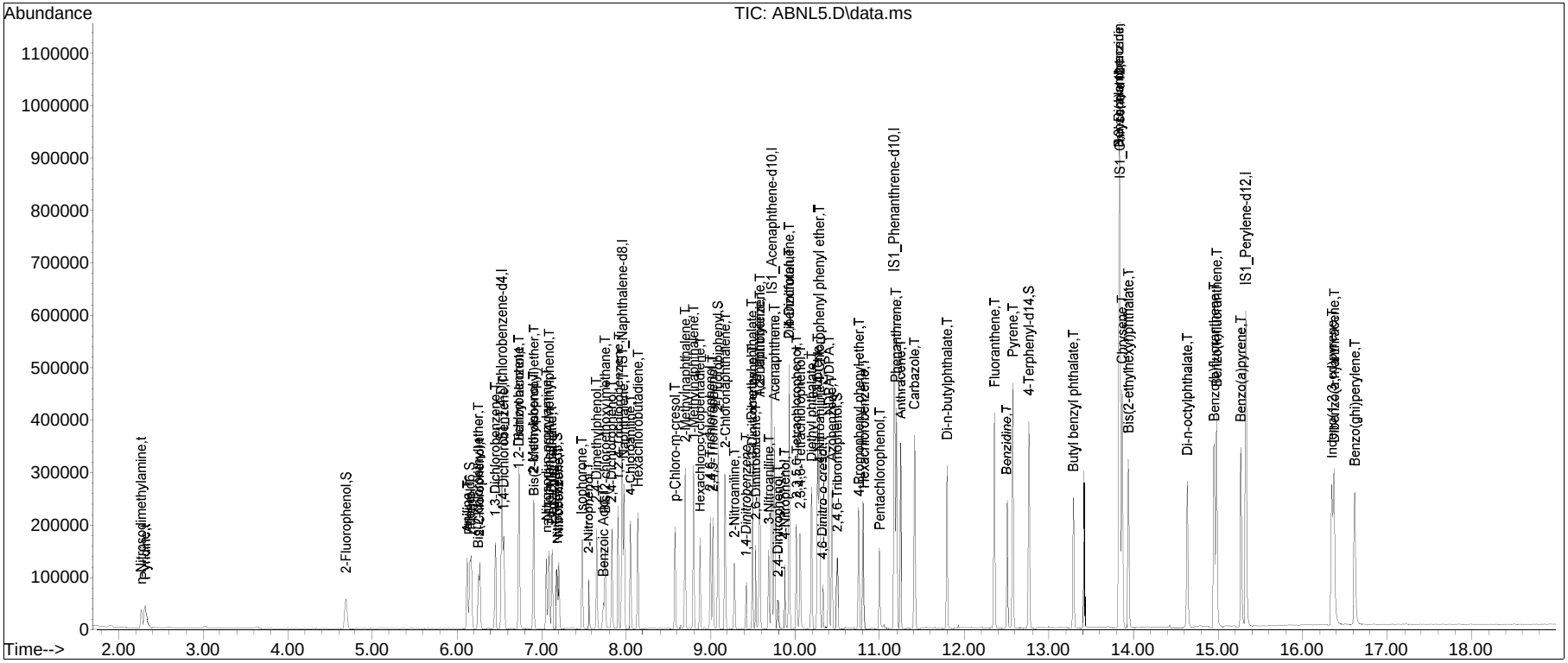
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

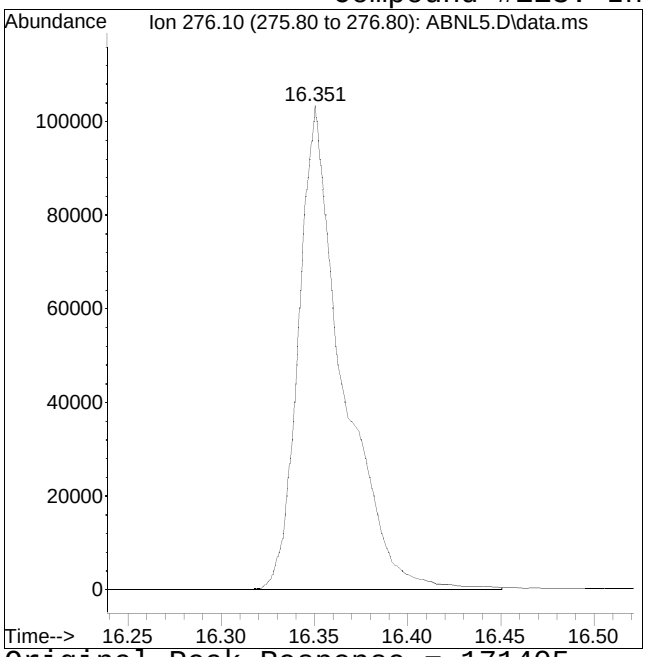
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



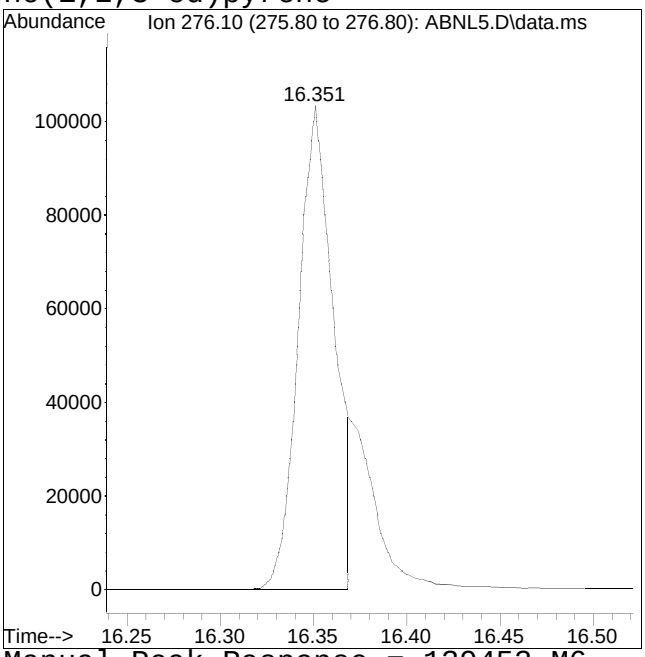
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

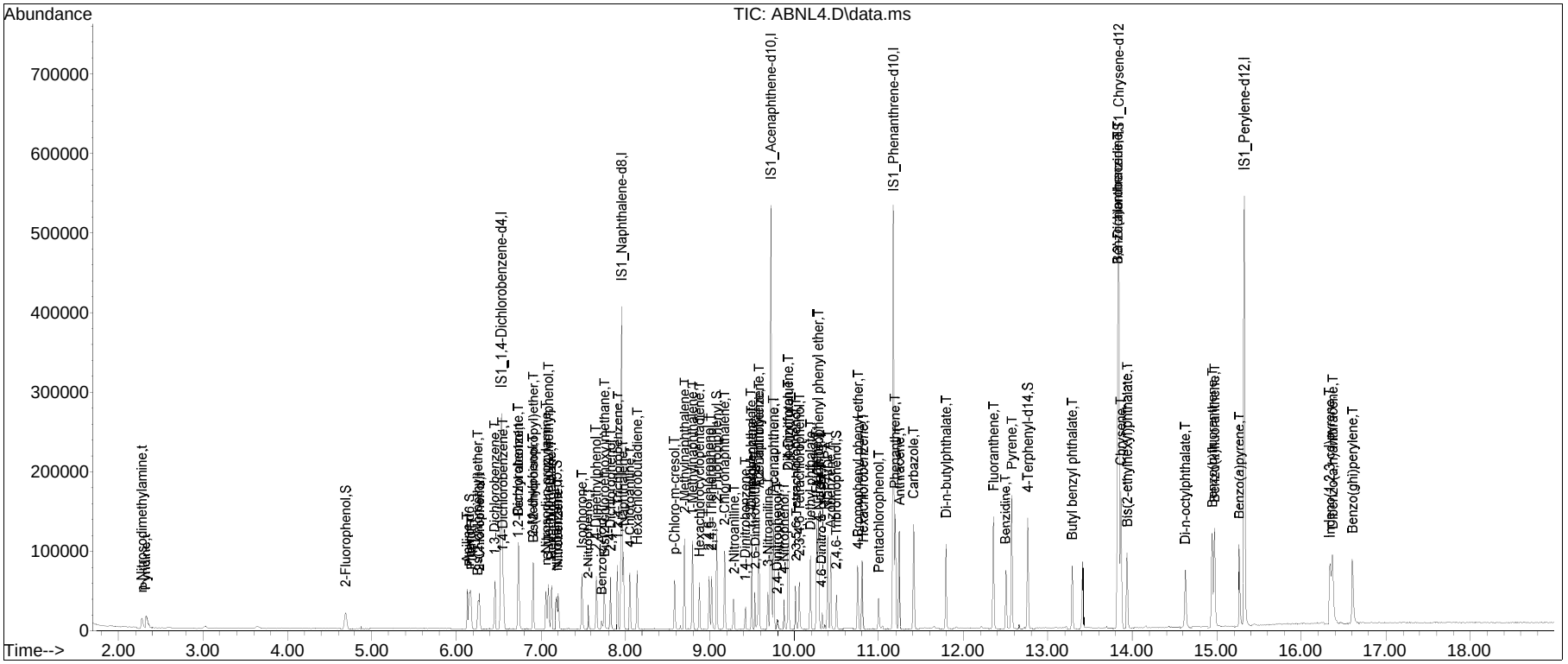
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

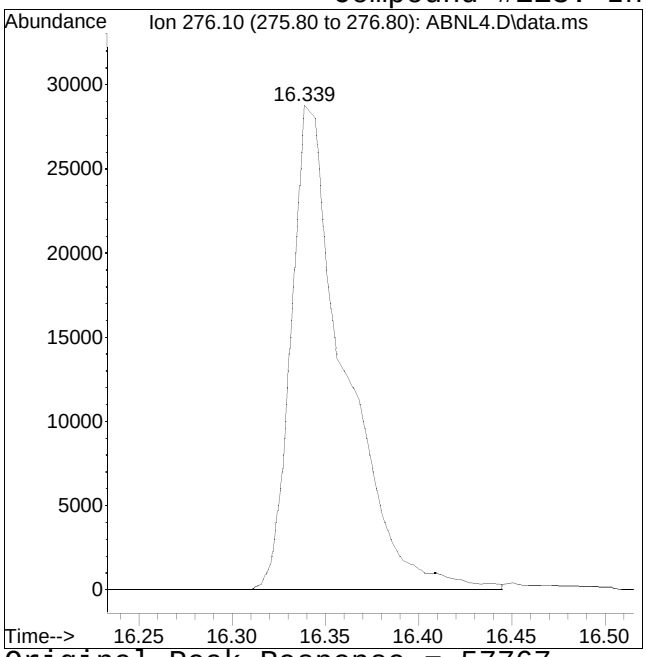
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



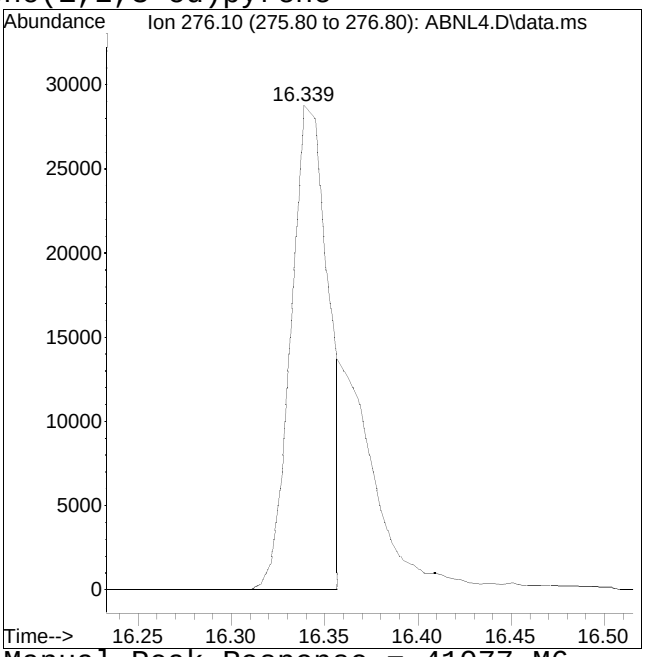
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

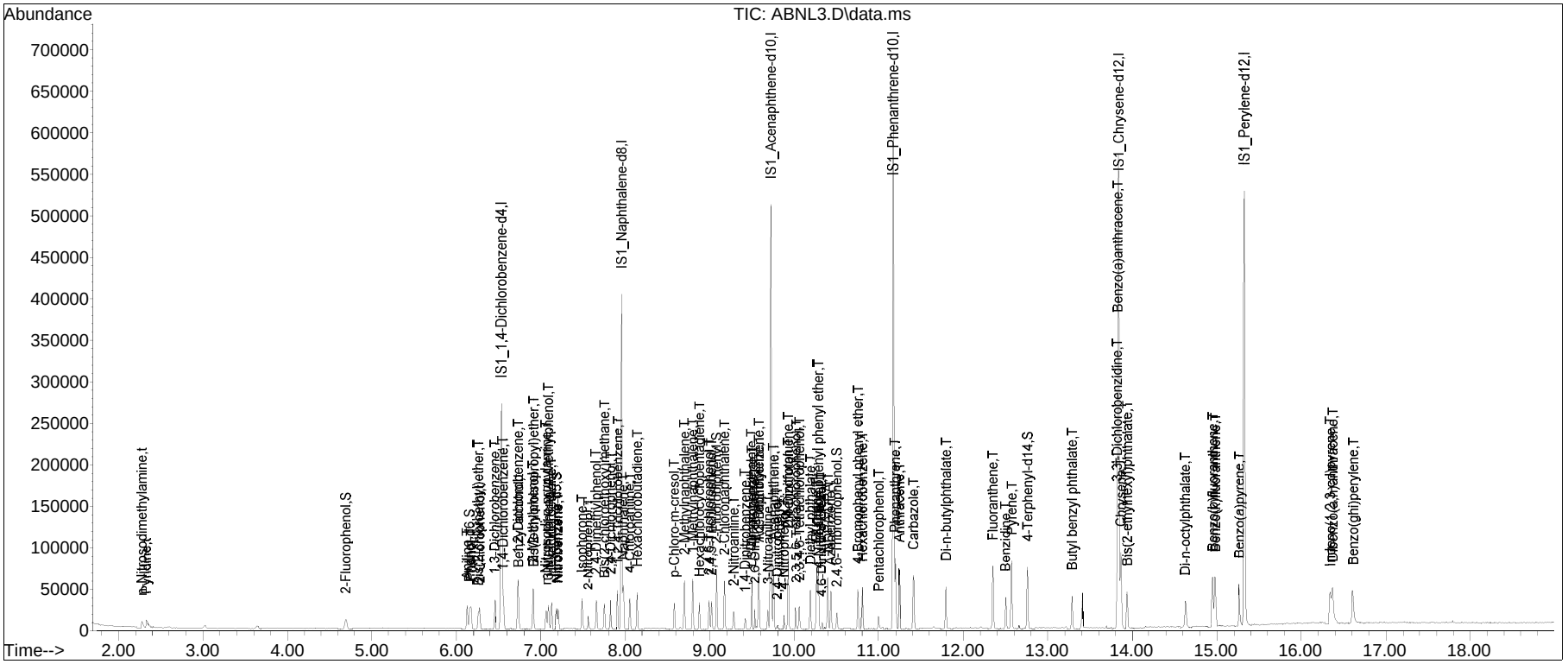
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

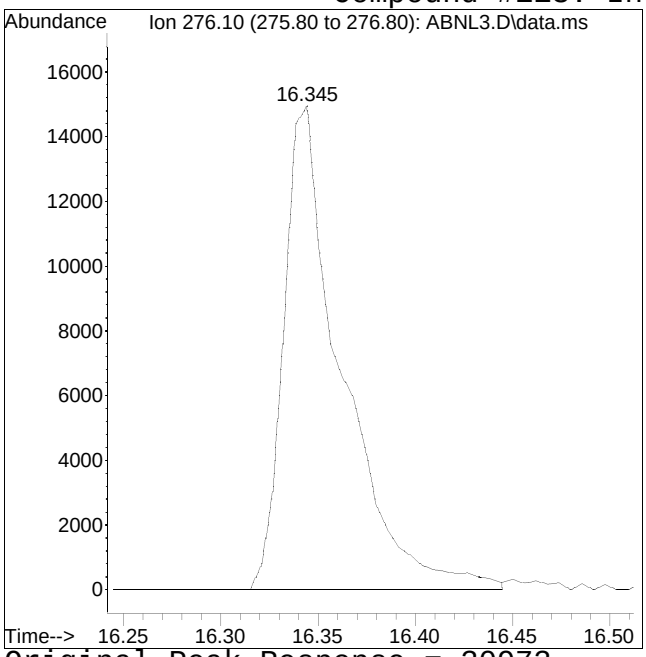
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



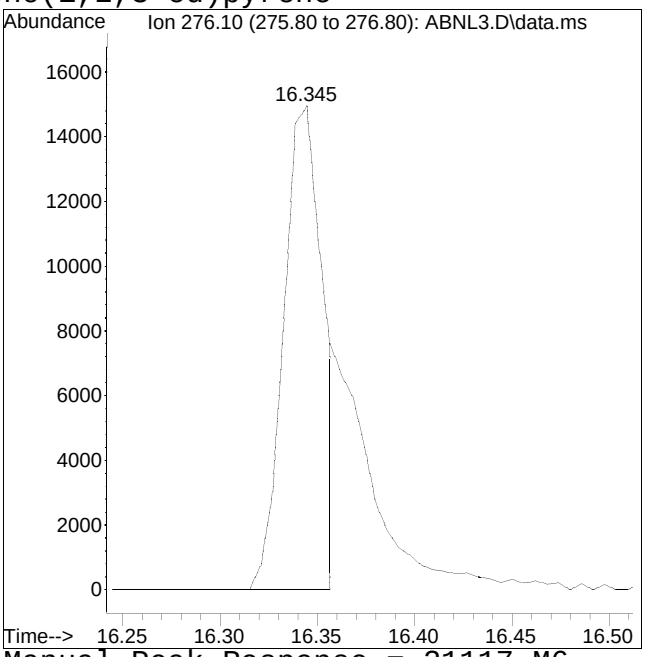
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 94.27%			
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 93.57%			
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 88.20%			
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 91.77%			
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	# 0.00
Standard Area 1 = 233929			Recovery = 87.57%			
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 90.91%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#			
7) Phenol-d6	6.157	99	3276	0.180	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#			
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#			
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#			
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#			
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml#	54
5) Aniline	6.134	93	4255	0.196	ug/ml	99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml	92
8) Phenol	6.175	94	3744	0.188	ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml	89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml	95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml		98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml		96
72)	Fluorene	10.263	166	7825	0.206	ug/ml		92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml		90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml	#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml		
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml		97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml	#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml	#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml		92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml		97
89)	Anthracene	11.239	178	12757	0.210	ug/ml		99
90)	Carbazole	11.410	167	10959	0.199	ug/ml		99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml		99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml	#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml	#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml		99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml		95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml		96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml	#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml		98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml	#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml	#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml	#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml	#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml	#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL		
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml	#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml	#	86

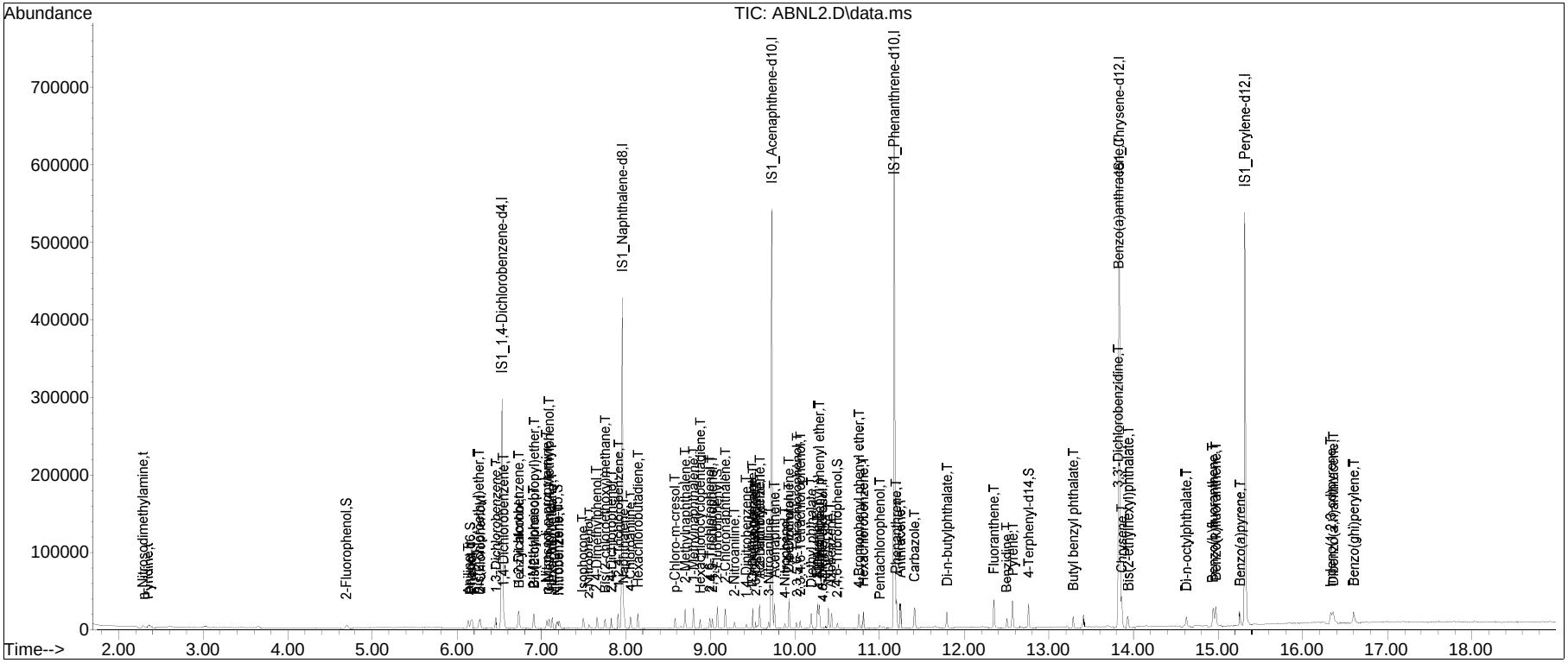
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

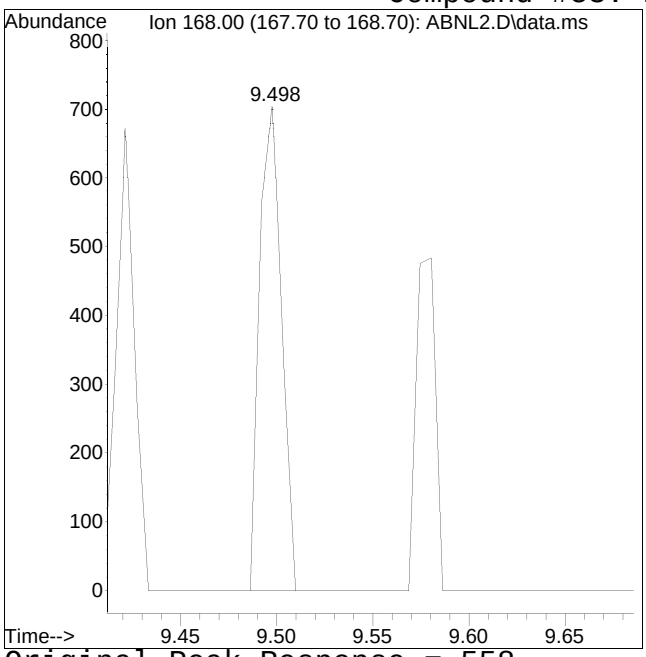
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

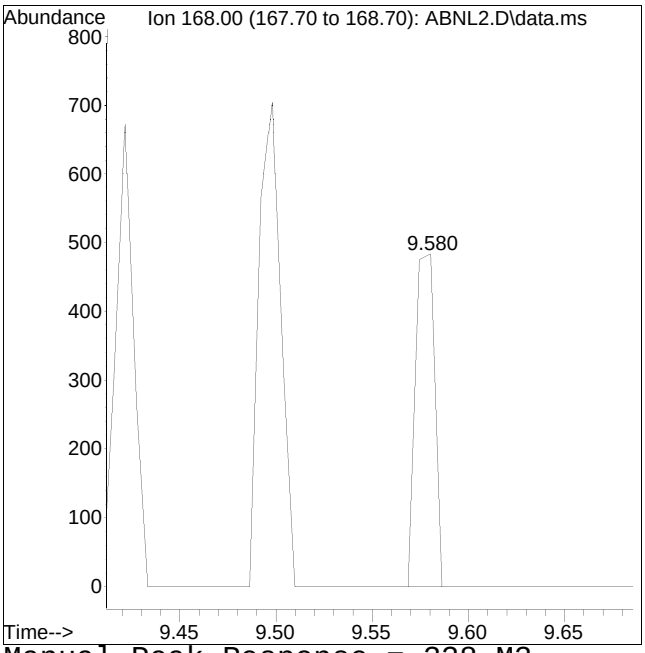


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





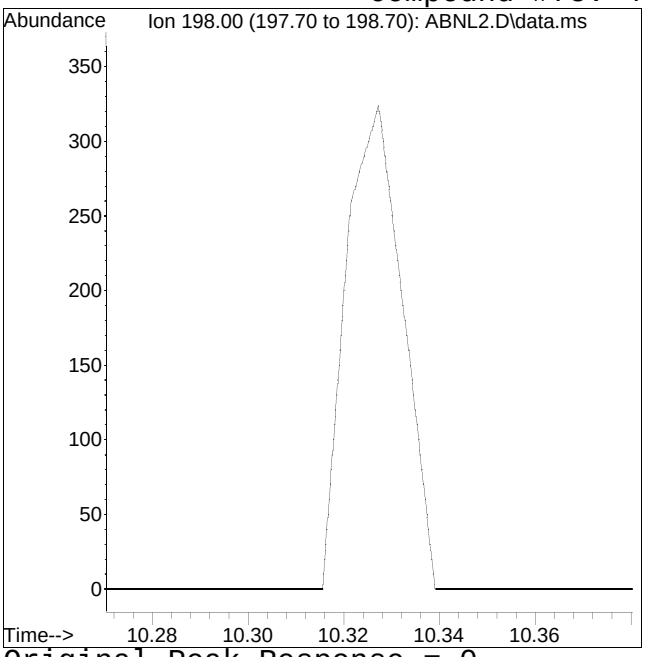
Original Peak Response = 558 Manual Peak Response = 338 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

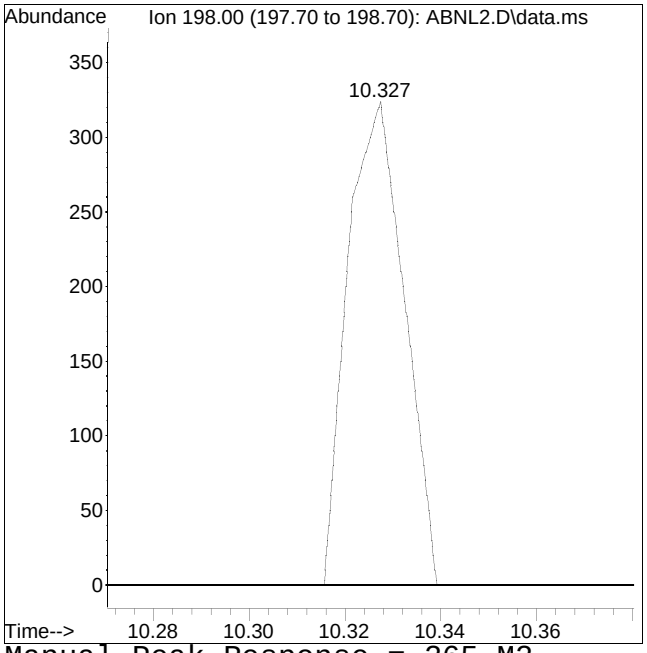
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



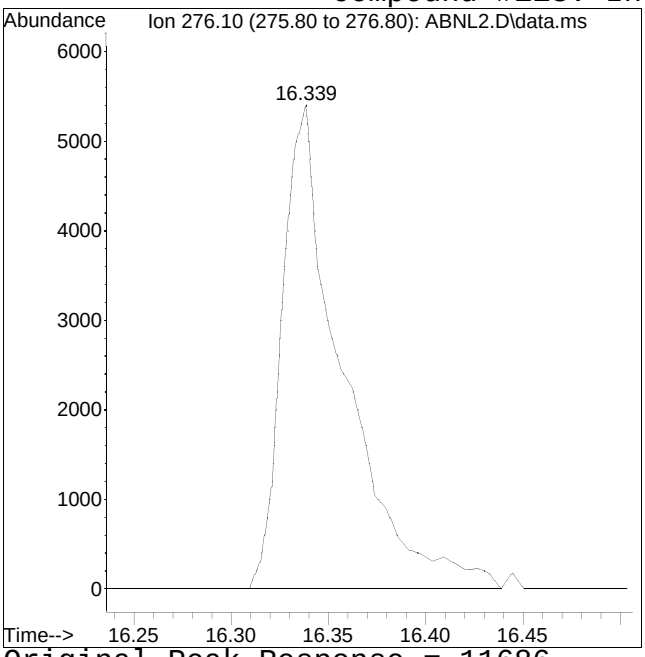
Manual Peak Response = 265 M2

M2 = Peak not found by automatic integration algorithm.

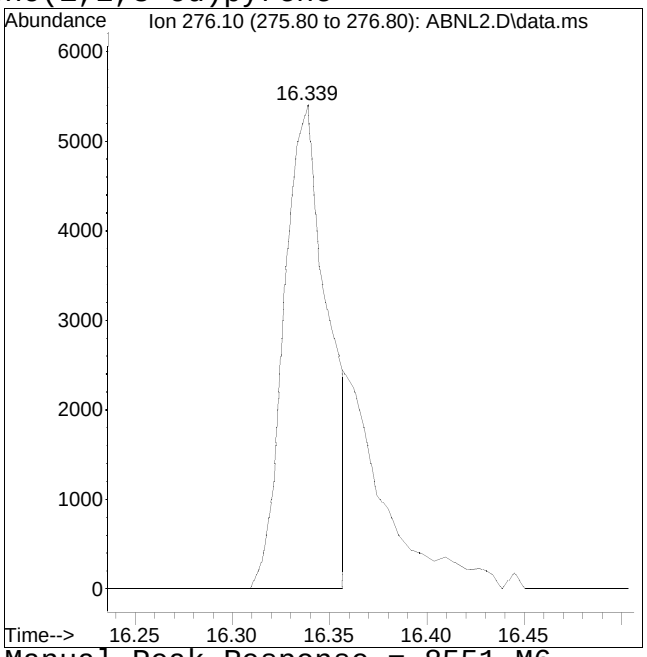
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 96.80%				
34) IS1_Naphthalene-d8	7.957	136	184640	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 97.00%				
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 90.61%				
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 93.29%				
103) IS1_Chrysene-d12	13.833	240	210802	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 90.11%				
112) IS1_Perylene-d12	15.315	264	224865	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 93.28%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	1303	0.088	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#				
7) Phenol-d6	6.157	99	1610	0.086	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#				
19) Nitrobenzene-d5	7.186	82	1368	0.080	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#				
45) 2-Fluorobiphenyl	9.081	172	4156	0.098	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#				
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#				
95) 4-Terphenyl-d14	12.763	244	5373	0.104	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080	ug/ml#		68
3) Pyridine	2.357	79	1275	0.084	ug/ml#		49
5) Aniline	6.128	93	2125	0.095	ug/ml		96
6) 2-Chlorophenol	6.275	128	1485	0.092	ug/ml#		72
8) Phenol	6.175	94	1771	0.087	ug/ml		96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093	ug/ml#		82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095	ug/ml		99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093	ug/ml#		73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098	ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094	ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089	ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097	ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077	ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081	ug/ml#	79
21) Isophorone	7.492	82	2720	0.090	ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052	ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095	ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086	ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095	ug/ml	95
35) Naphthalene	7.975	128	5001	0.097	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	594	0.094	ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087	ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110	ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084	ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090	ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095	ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367	ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053	ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100	ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172	ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051	ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101	ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.928	168	5287	0.102	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178	ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044	ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) 2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70) 2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71) Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72) Fluorene	10.263	166	3853	0.099 ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74) 4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.	
76) NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77) Azobenzene	10.433	77	3541	0.096 ug/ml	99
79) 4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80) Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81) Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88) Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89) Anthracene	11.245	178	6079	0.098 ug/ml	99
90) Carbazole	11.410	167	5031	0.090 ug/ml	98
91) Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92) Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93) Benzidine	12.504	184	2270	0.060 ug/ml#	68
94) Pyrene	12.574	202	7718	0.101 ug/ml	98
96) Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104) Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105) 3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106) Chrysene	13.863	228	7226	0.101 ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108) Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109) Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110) Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111) Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114) Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115) Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

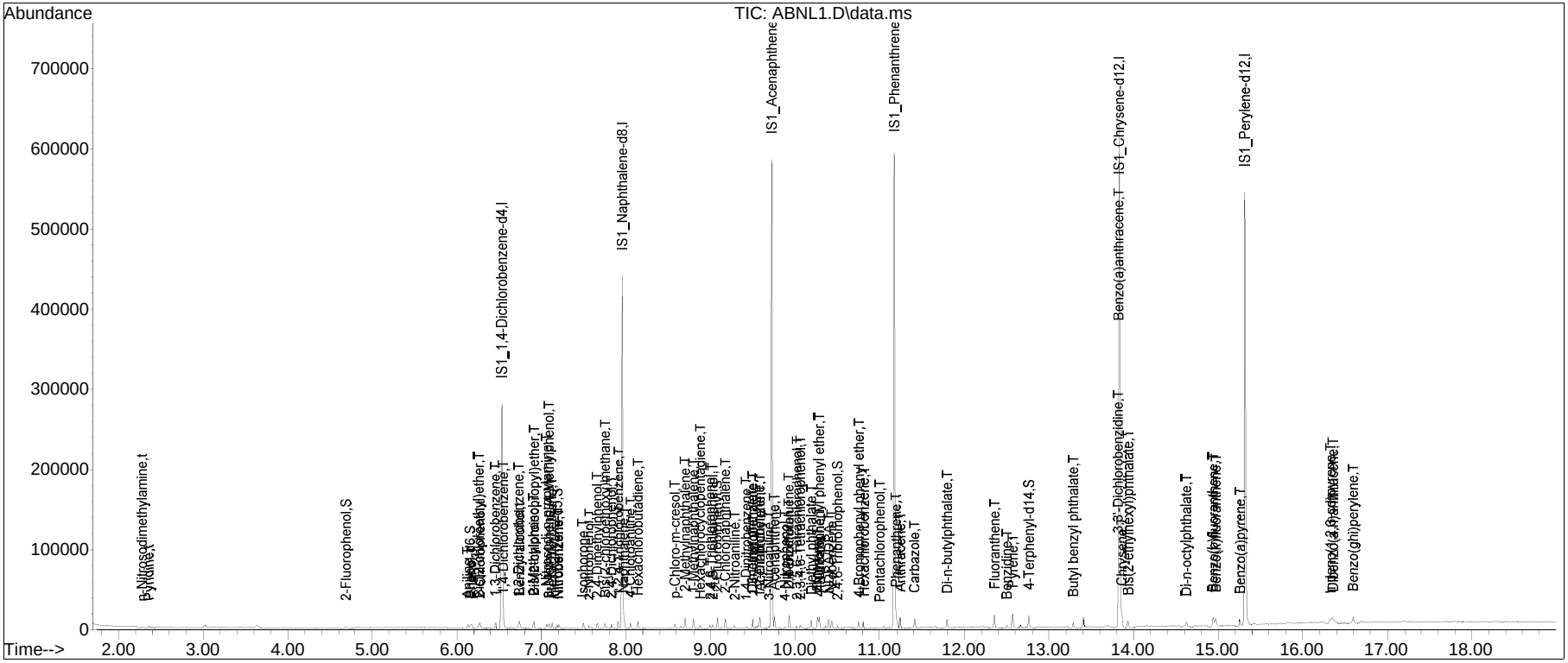
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

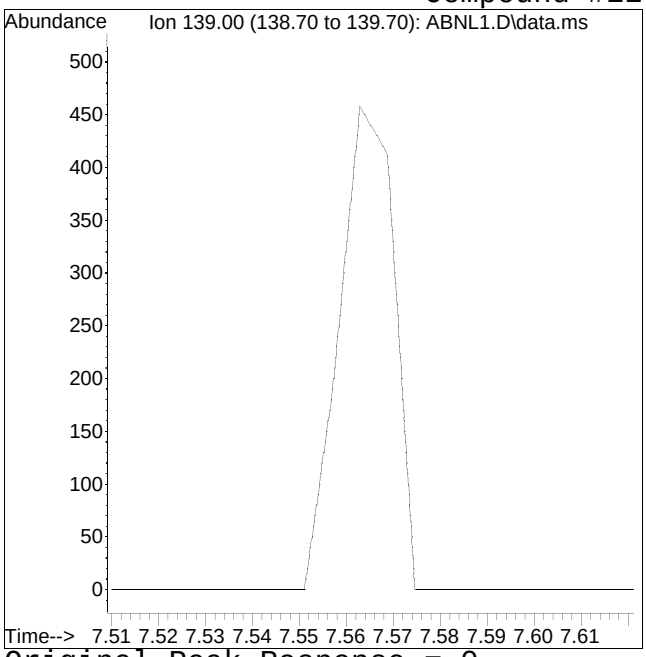
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



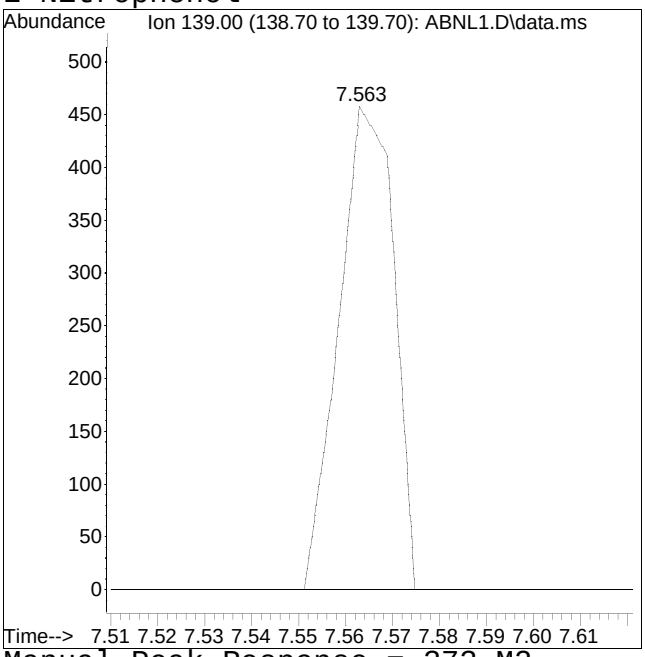
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



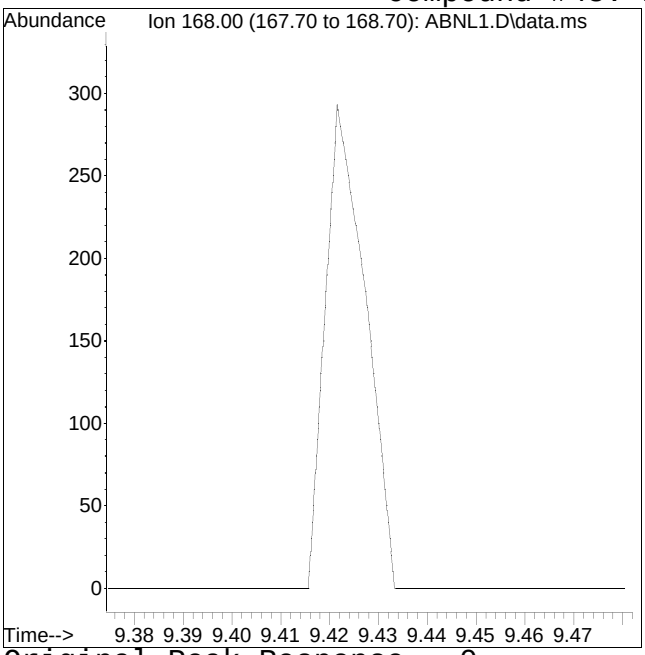
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

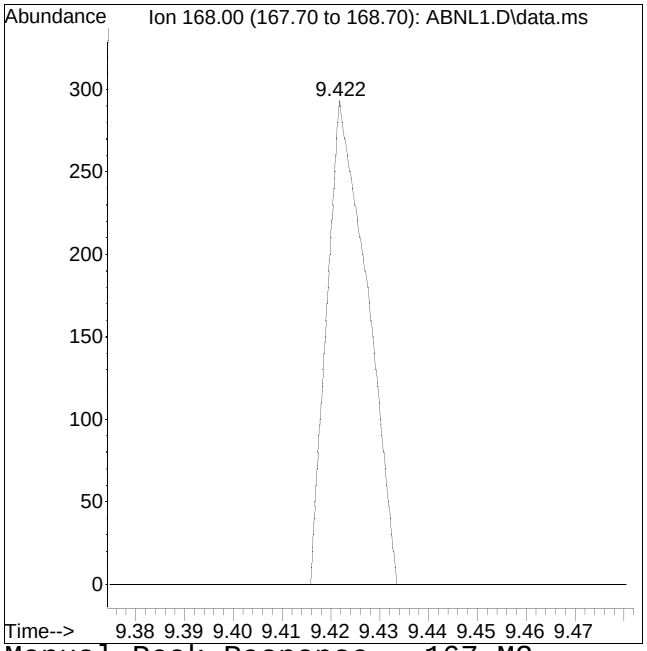
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



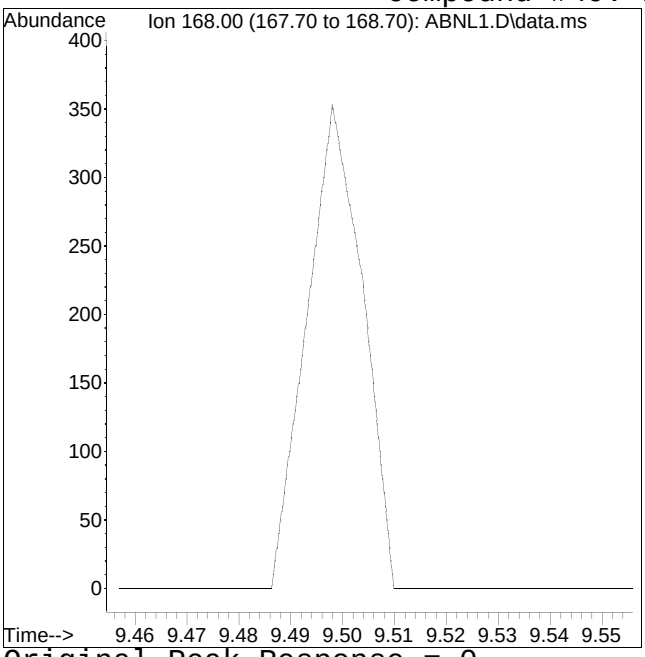
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

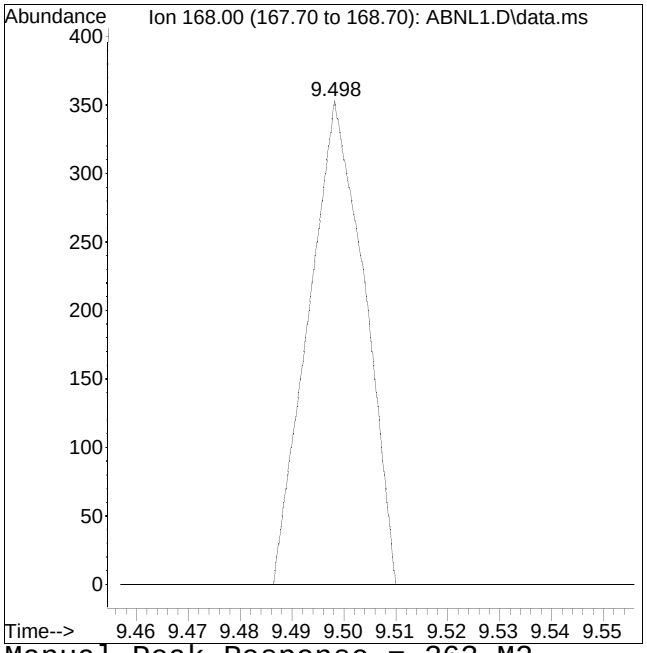
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



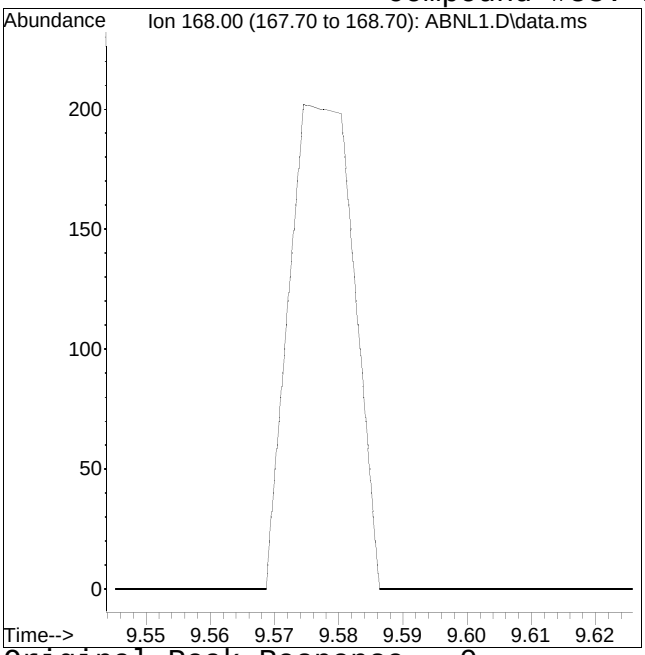
Manual Peak Response = 263 M2

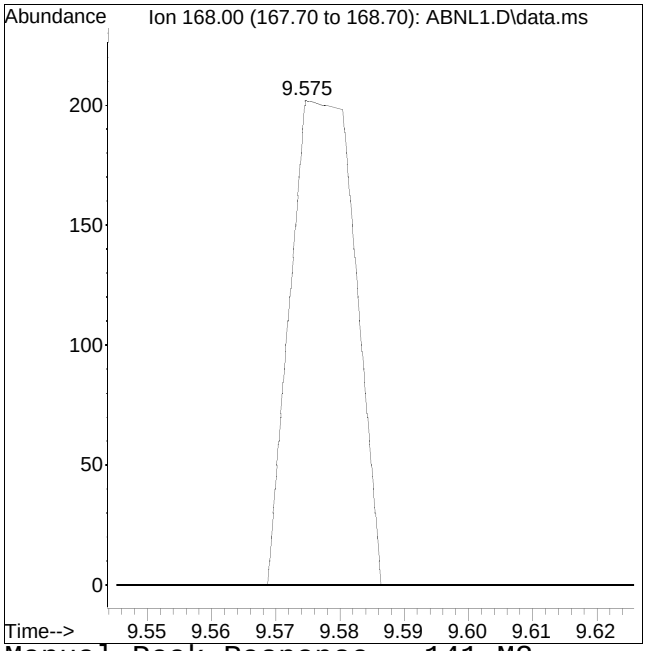
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



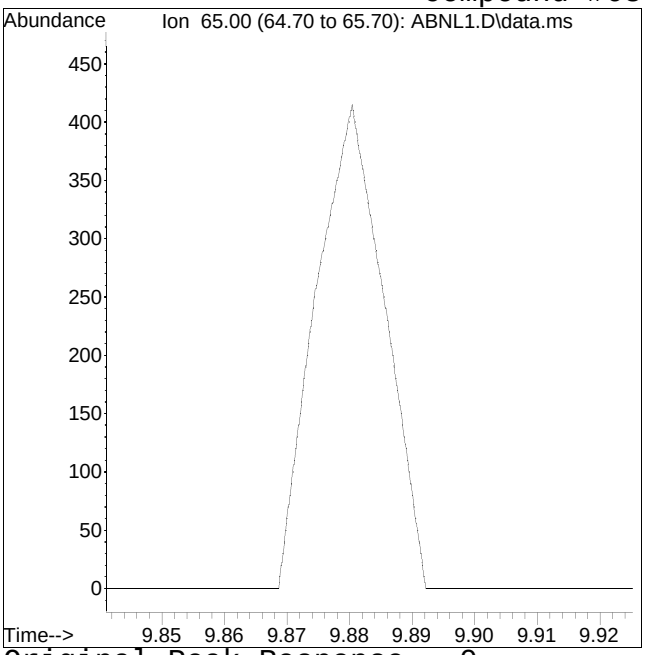


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

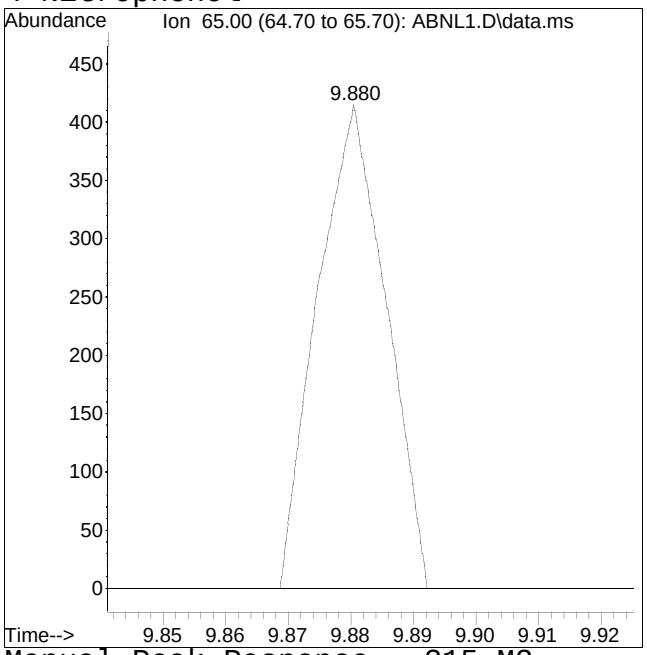
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



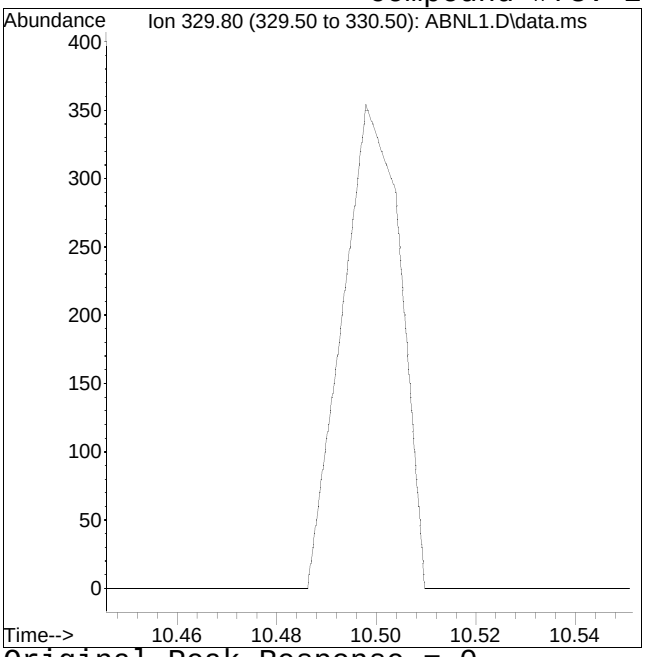
Manual Peak Response = 315 M2

M2 = Peak not found by automatic integration algorithm.

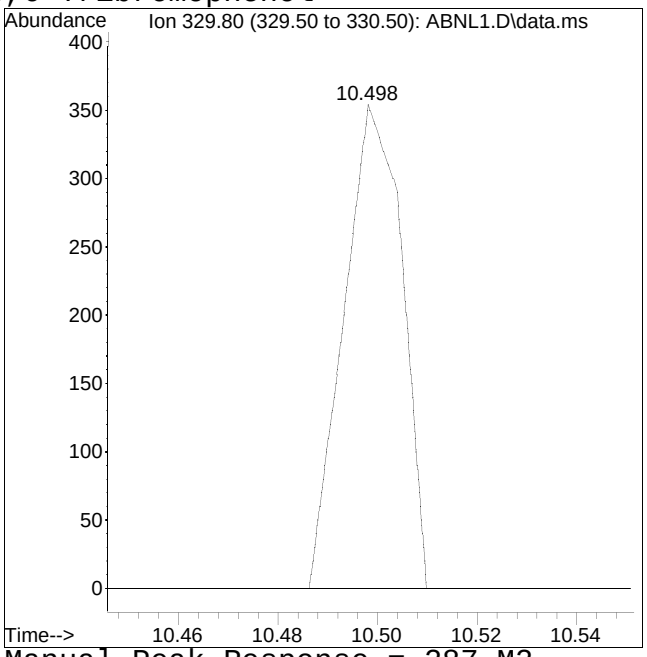
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



Original Peak Response = 0



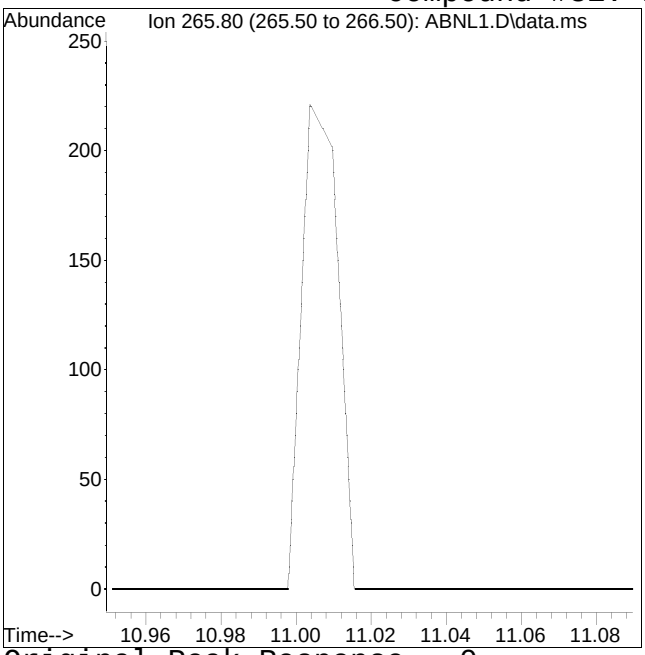
Manual Peak Response = 287 M2

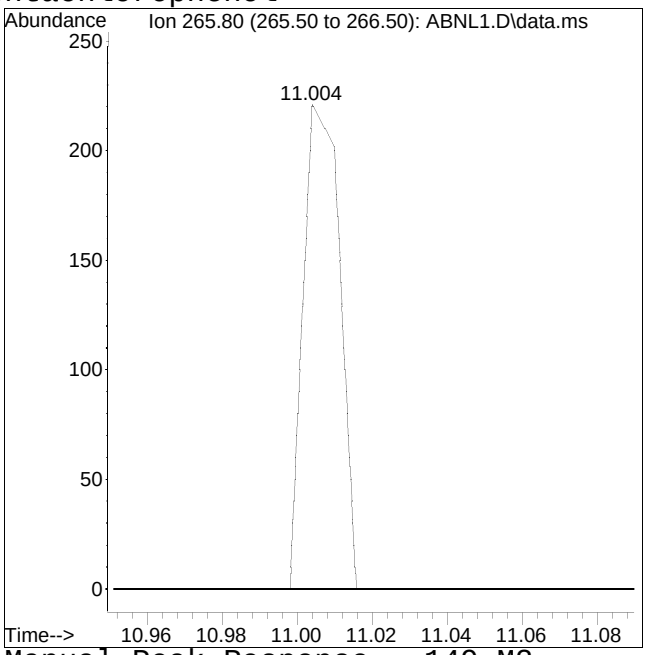
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



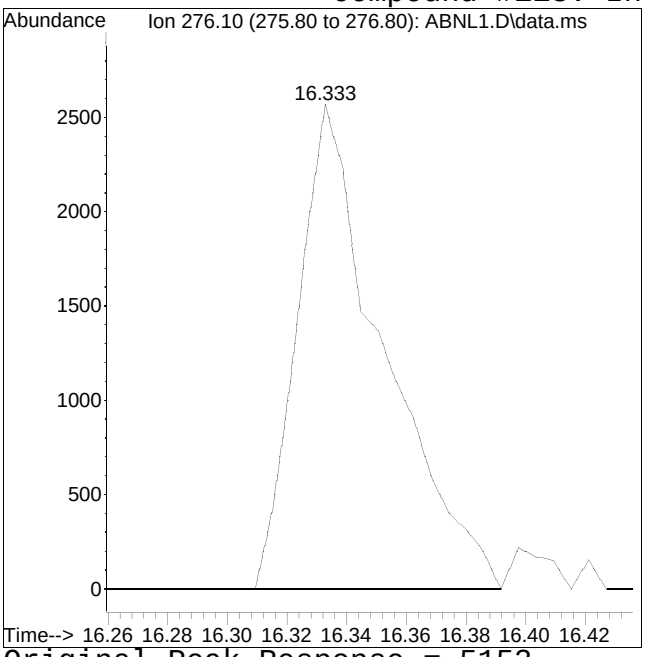


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

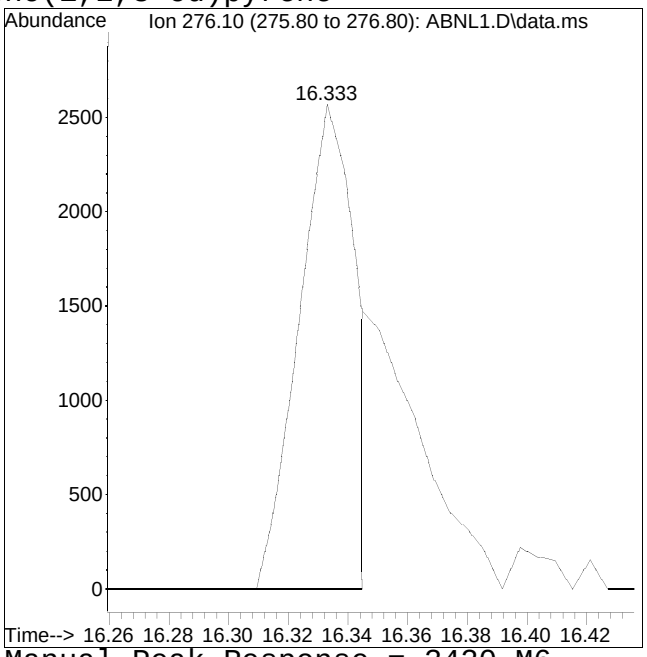
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	103.27%		
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.00%		
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.98%		
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml	98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml	95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml	93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml	
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml	97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml	98
83) Dichloran	10.869	206	258446	52.858	ug/ml#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml#	81

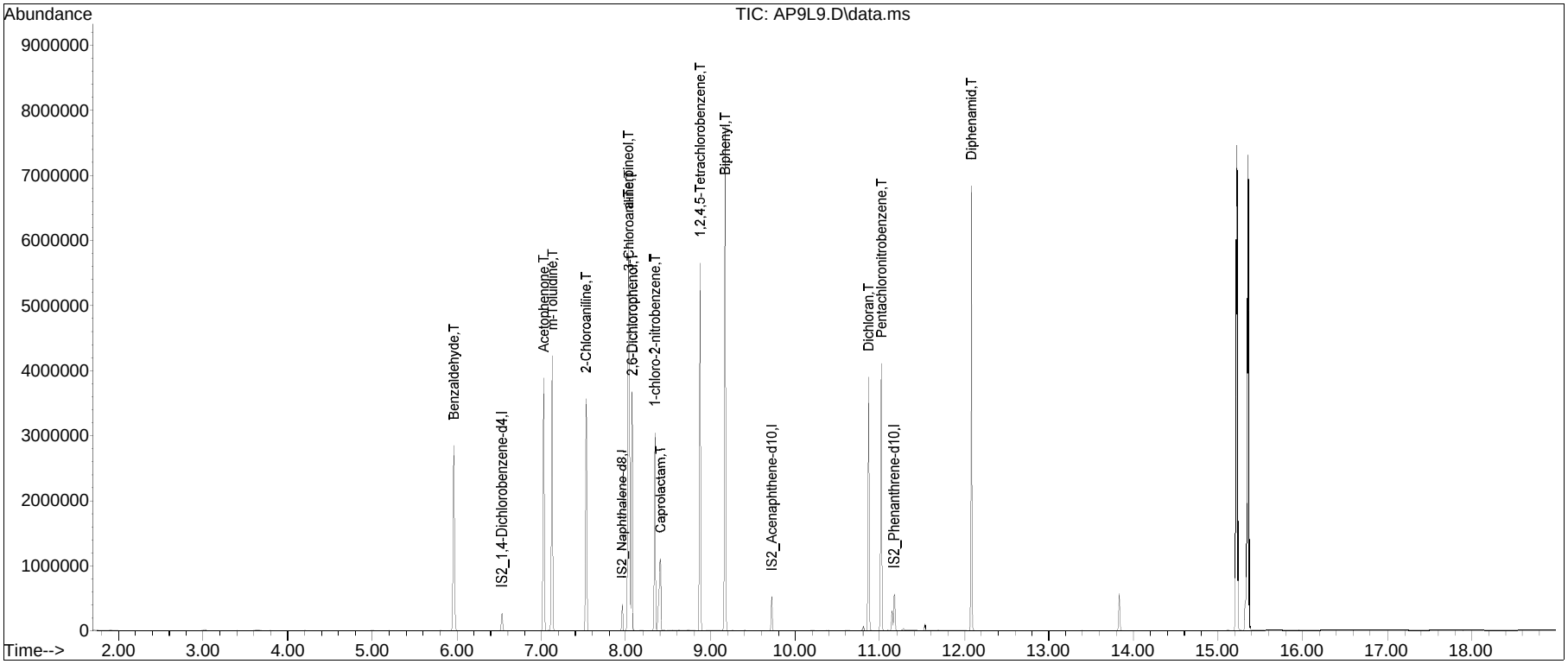
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

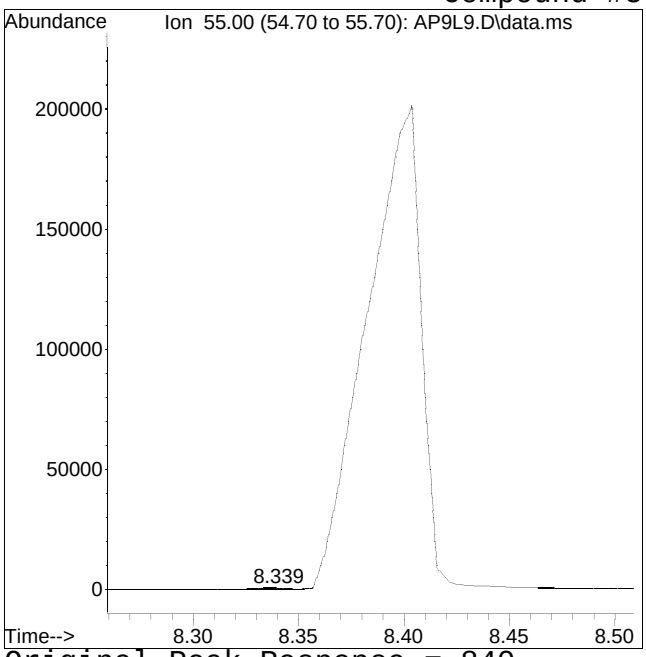
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

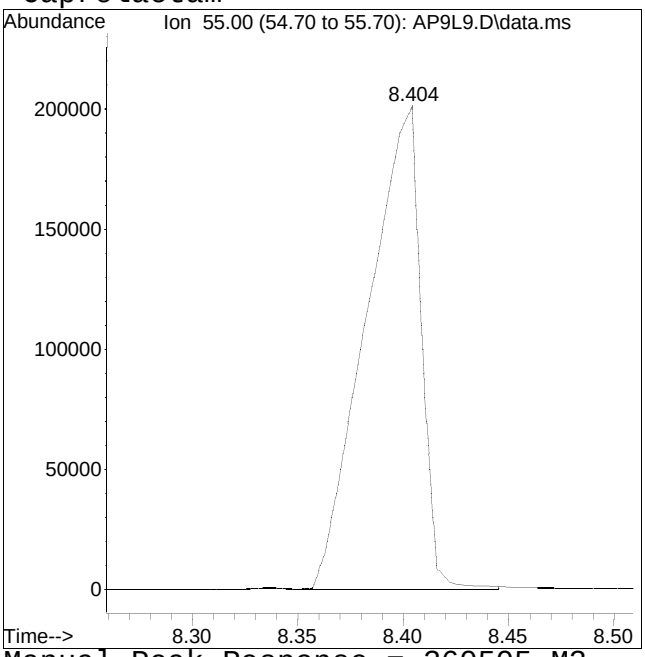


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery =	116.43%			
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery =	113.62%			
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery =	119.21%			
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery =	116.75%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml		98
29) Acetophenone	7.028	105	594302	27.435	ug/ml	#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml		95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml		94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml	#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml		91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml	#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml		97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml		99
83) Dichloran	10.869	206	134106	27.858	ug/ml	#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml	#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml	#	81

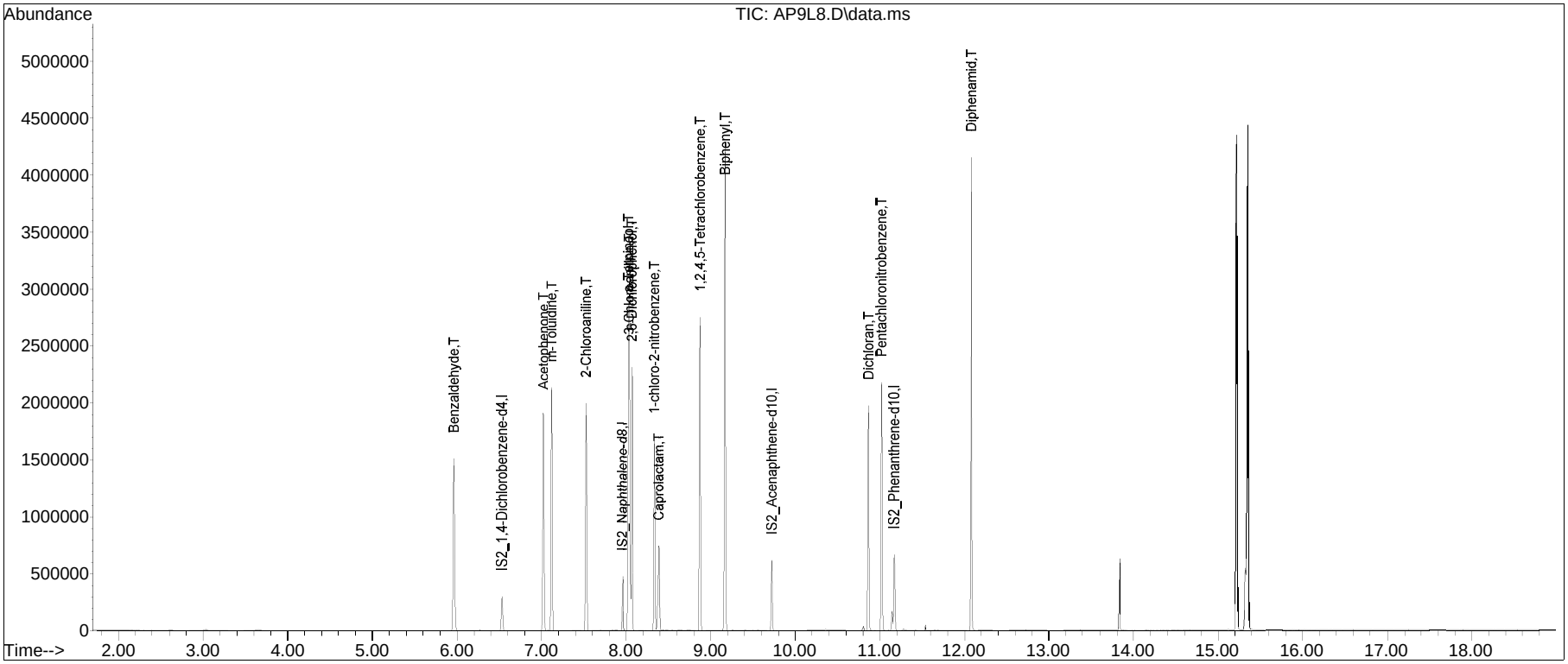
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	108.31%		
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.13%		
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	110.37%		
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	107.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml	99
29) Acetophenone	7.022	105	219138	10.875	ug/ml#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml	95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml	97
61) Biphenyl	9.174	154	412907	10.217	ug/ml	99
83) Dichloran	10.863	206	40375	10.432	ug/ml#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml	82

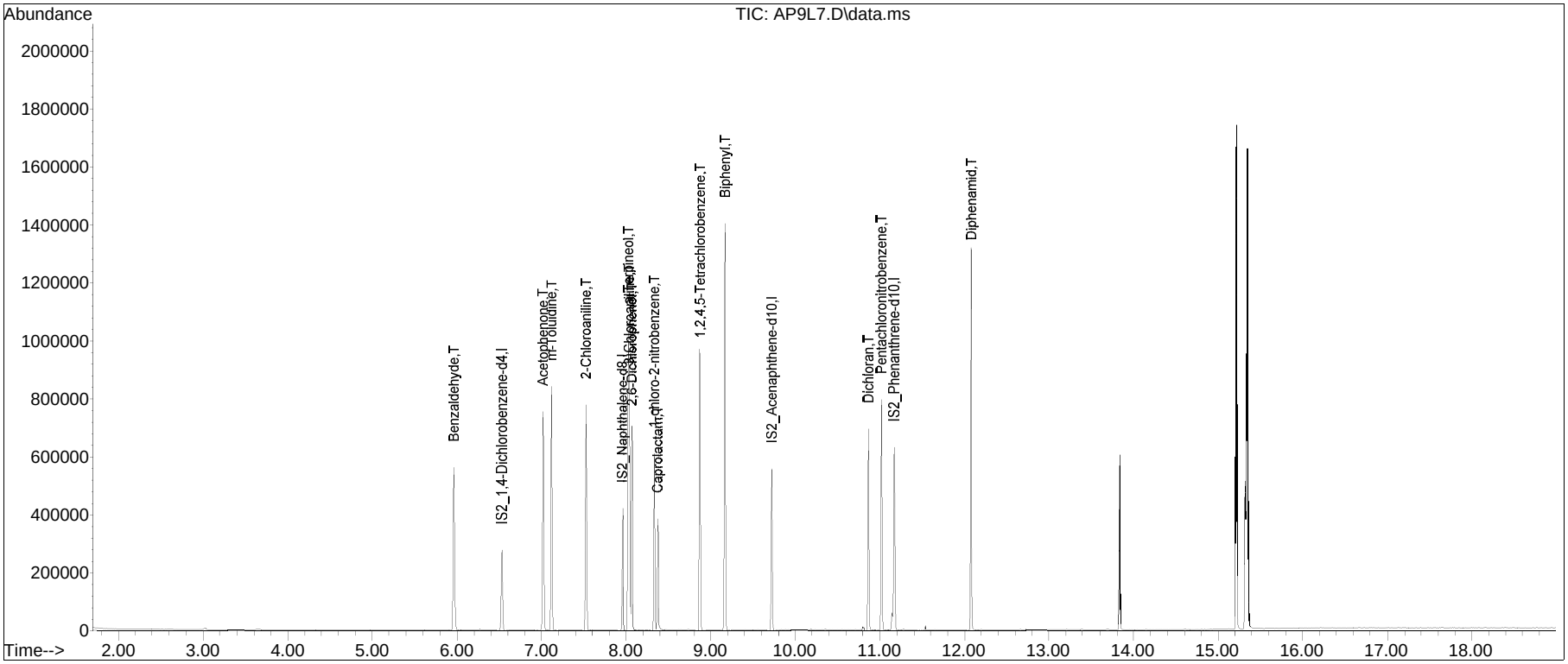
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml	98
29) Acetophenone	7.022	105	94421	5.075	ug/ml#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml	94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml	89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml	97
61) Biphenyl	9.175	154	181083	4.756	ug/ml	99
83) Dichloran	10.863	206	14102	4.535	ug/ml#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml#	81

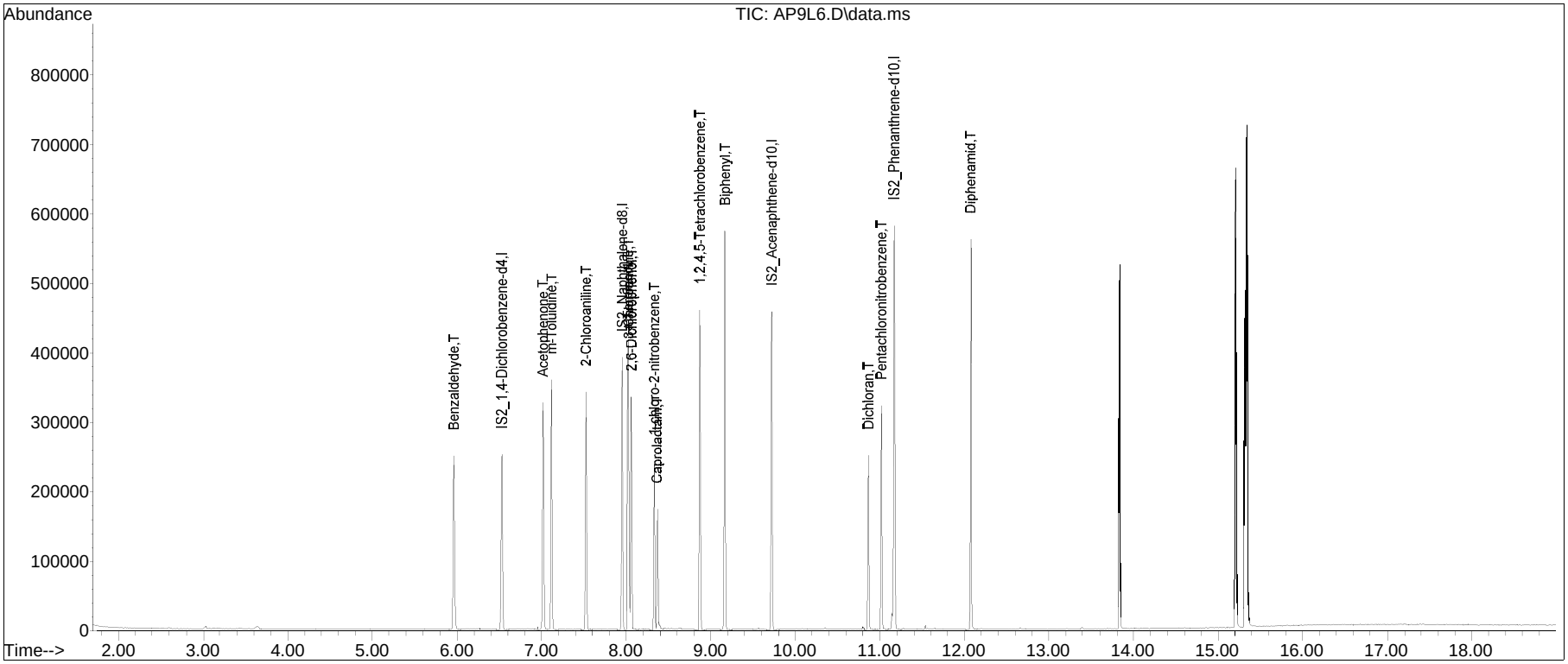
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 105.59%			
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 100.79%			
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 103.63%			
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery = 102.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml	98
29) Acetophenone	7.028	105	49113	2.500	ug/ml#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml	95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml	86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml	97
61) Biphenyl	9.175	154	95343	2.484	ug/ml	99
83) Dichloran	10.869	206	6586	2.397	ug/ml#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml#	82

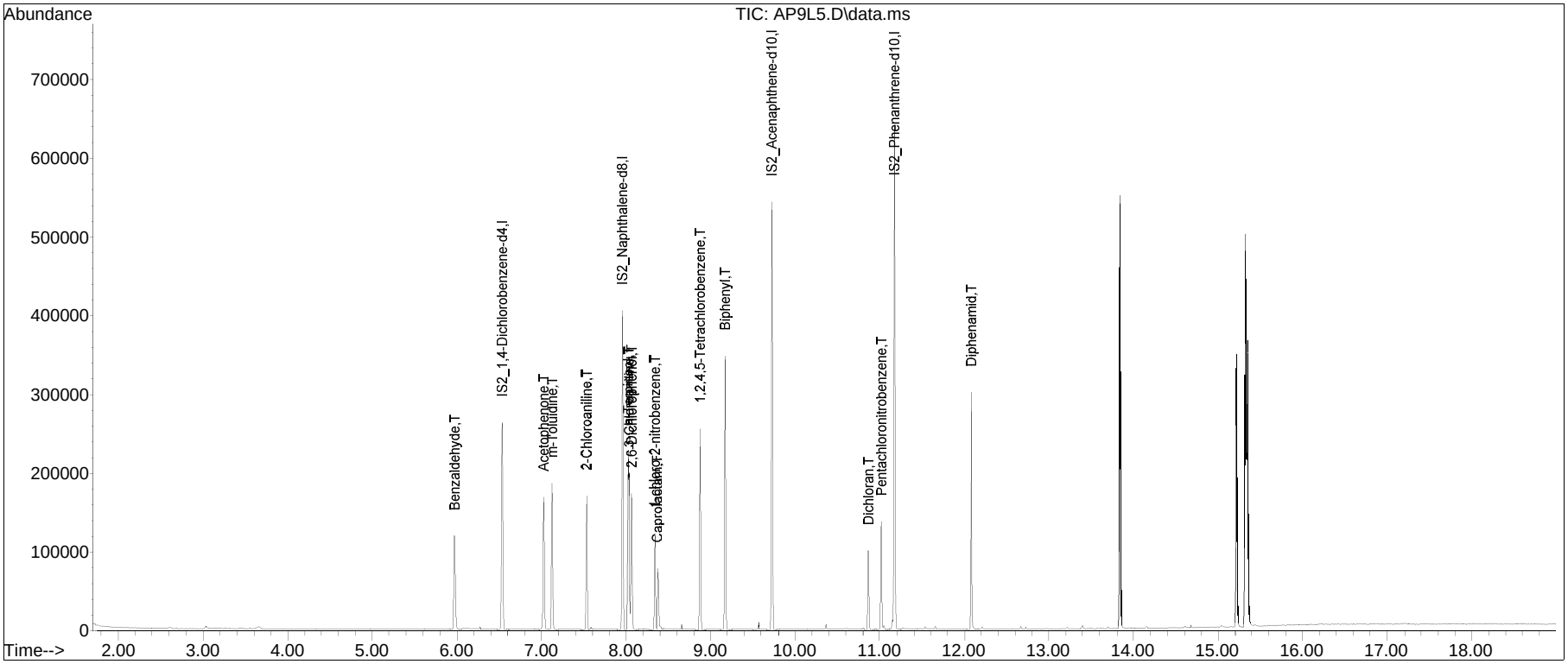
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

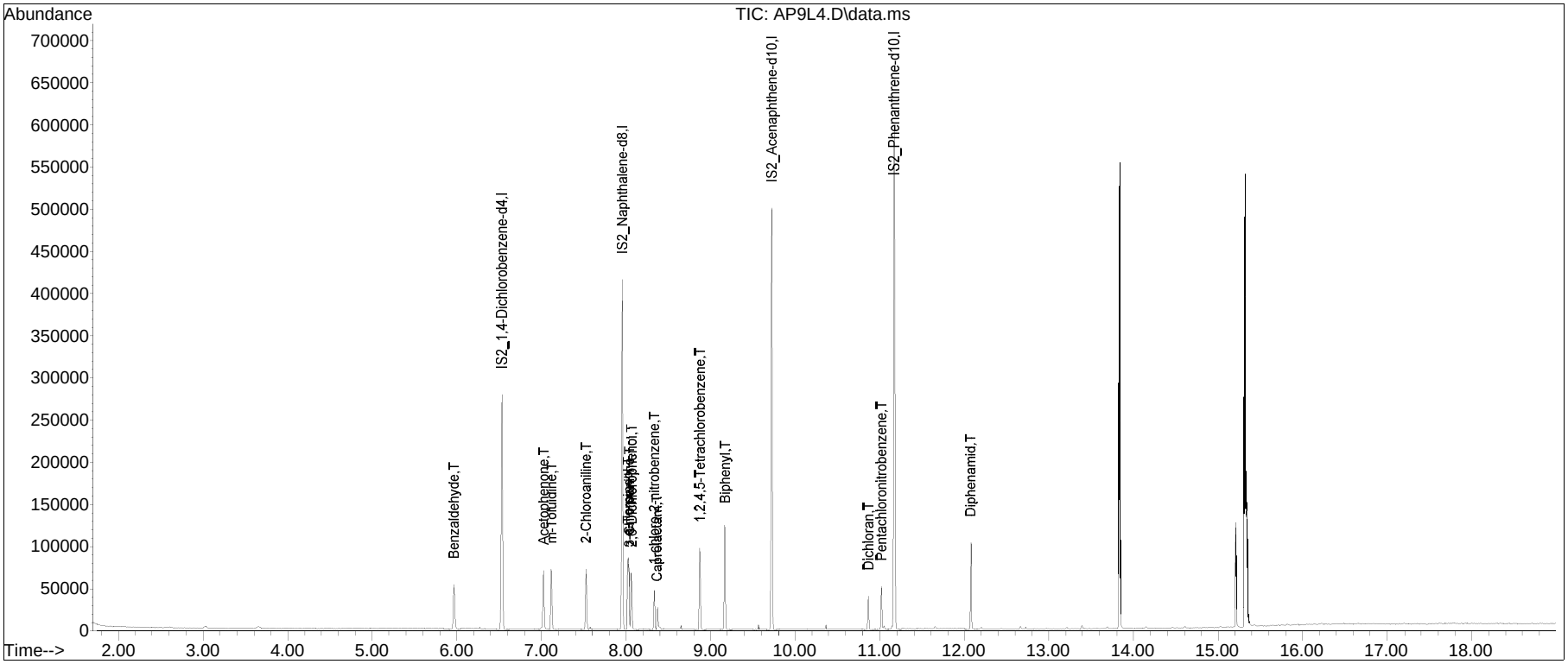
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

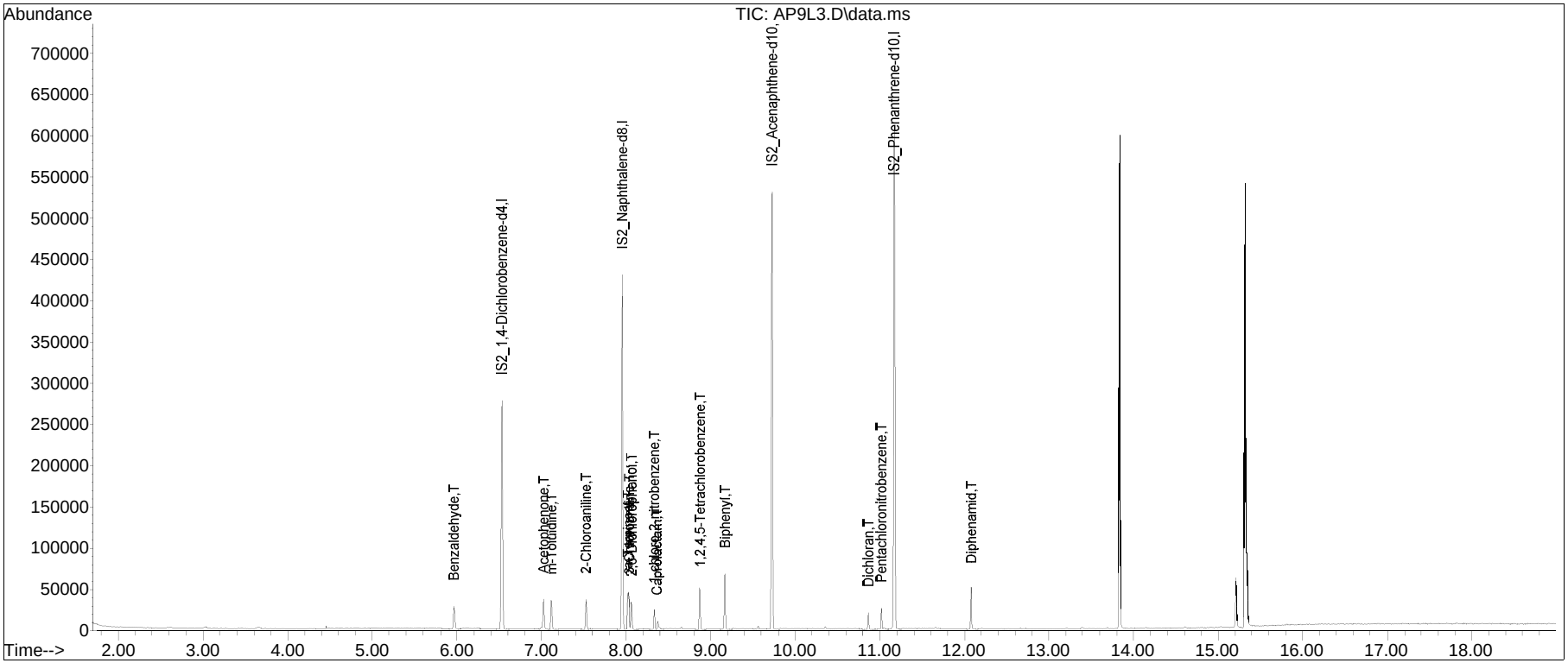
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	111.39%		
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.10%		
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	109.46%		
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	106.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml	93
29) Acetophenone	7.028	105	4186	0.202	ug/ml#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml	95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml	94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml	94
61) Biphenyl	9.175	154	8671	0.215	ug/ml	100
83) Dichloran	10.863	206	506	0.731	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml	83

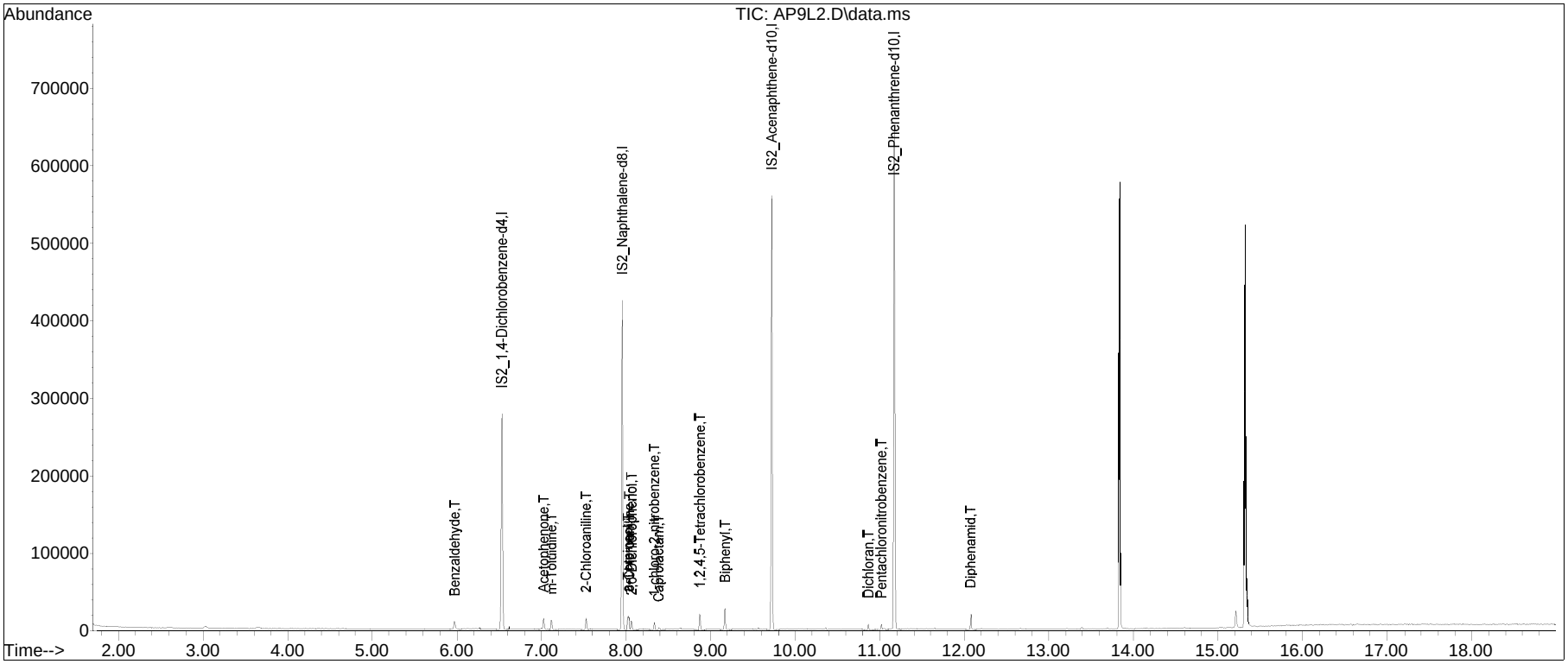
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

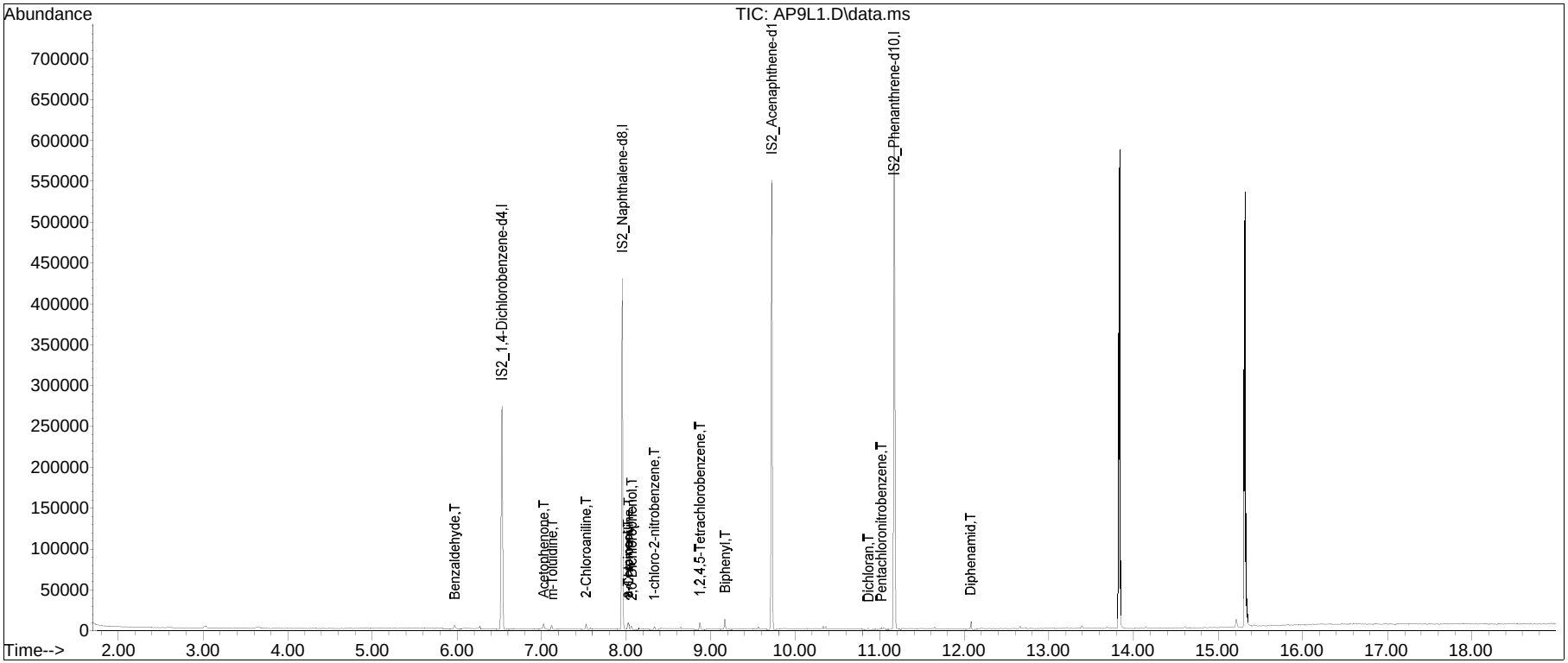
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

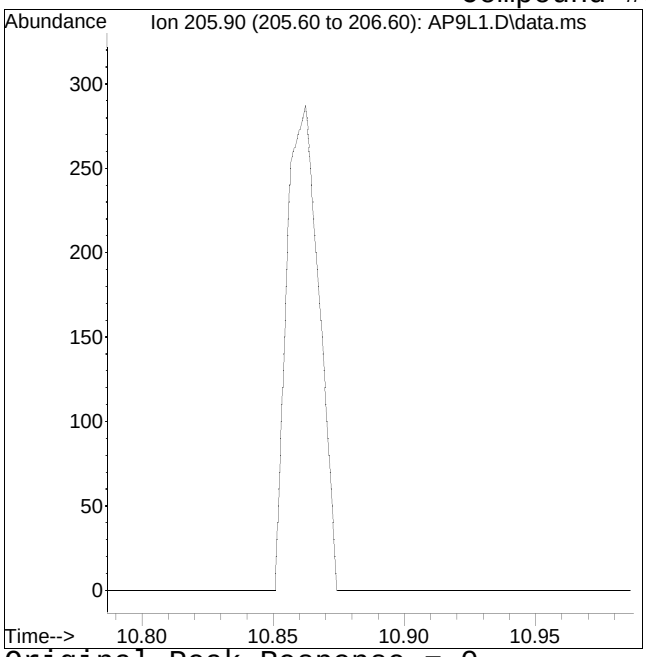
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



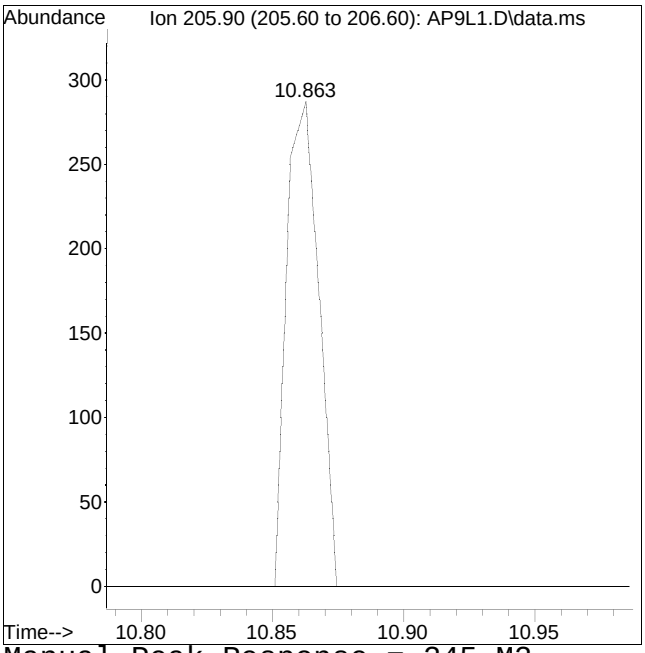
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



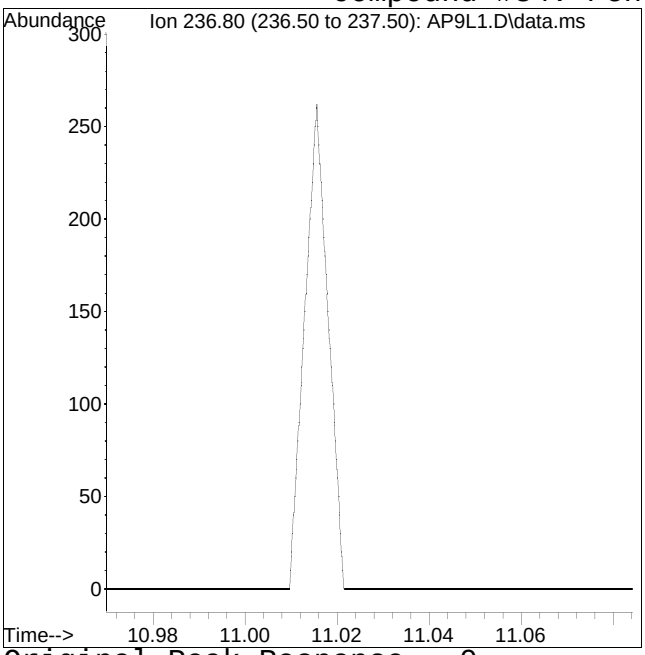
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

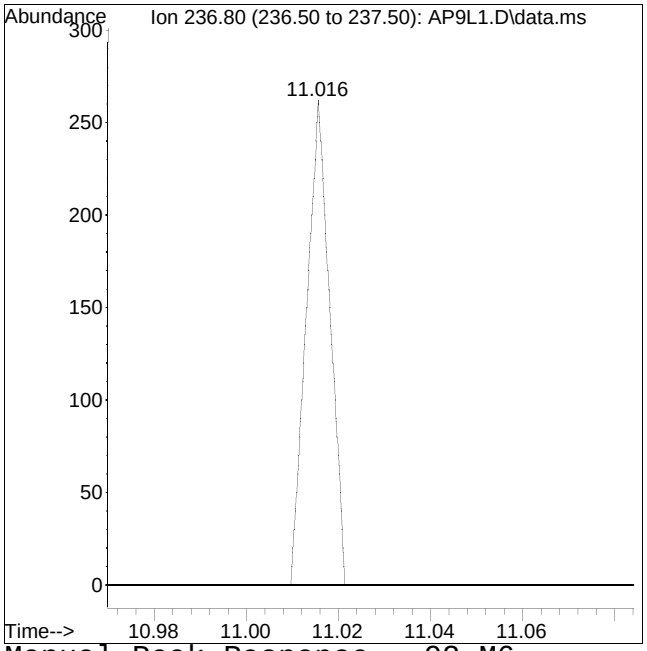
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71)	Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72)	Fluorene	10.263	166	201378	5.468	ug/ml	94
73)	4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74)	4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76)	NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77)	Azobenzene	10.433	77	199756	5.722	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81)	Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88)	Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89)	Anthracene	11.245	178	323617	5.520	ug/ml	98
90)	Carbazole	11.410	167	287846	5.448	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92)	Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93)	Benzidine	12.504	184	214564	5.230	ug/ml#	94
94)	Pyrene	12.574	202	396732	5.493	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104)	Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106)	Chrysene	13.862	228	347792	5.420	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108)	Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109)	Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111)	Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115)	Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

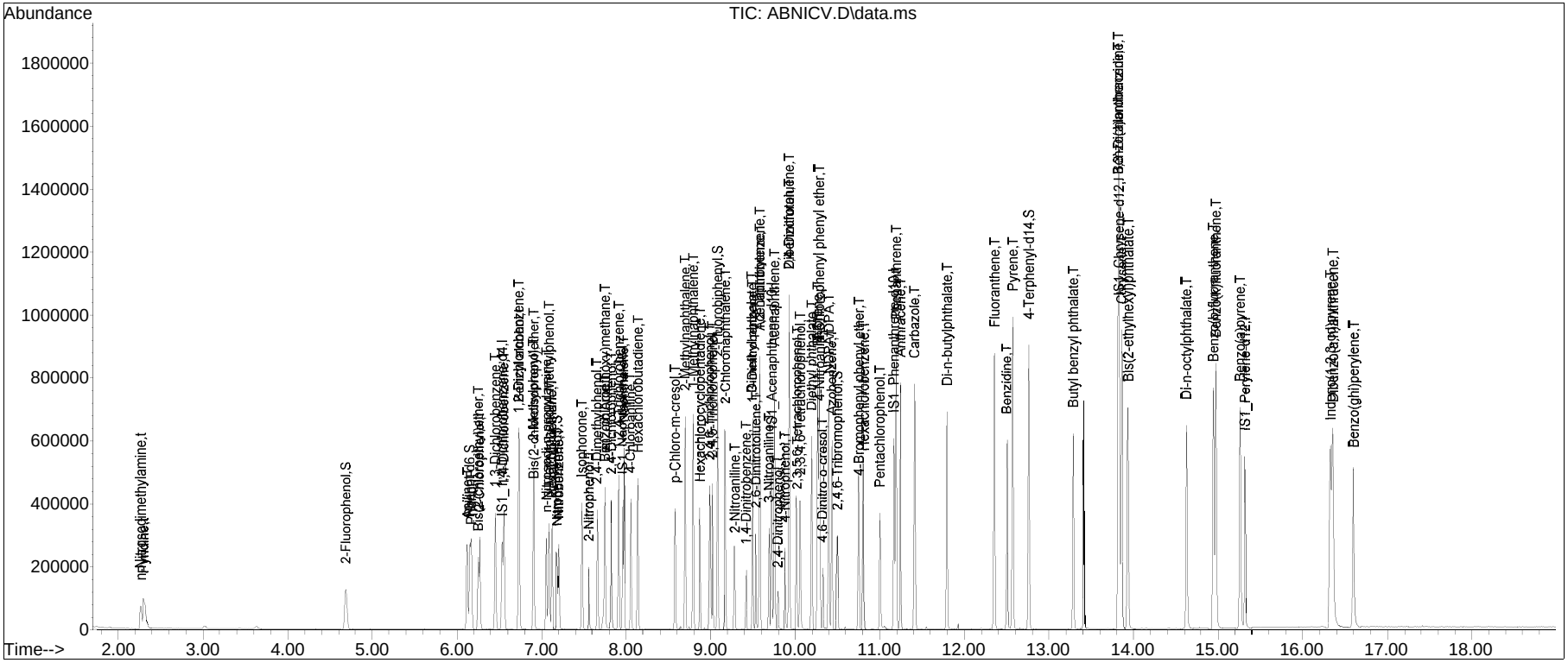
(#) = qualifier out of range (m) = manual integration (+) = signals summed

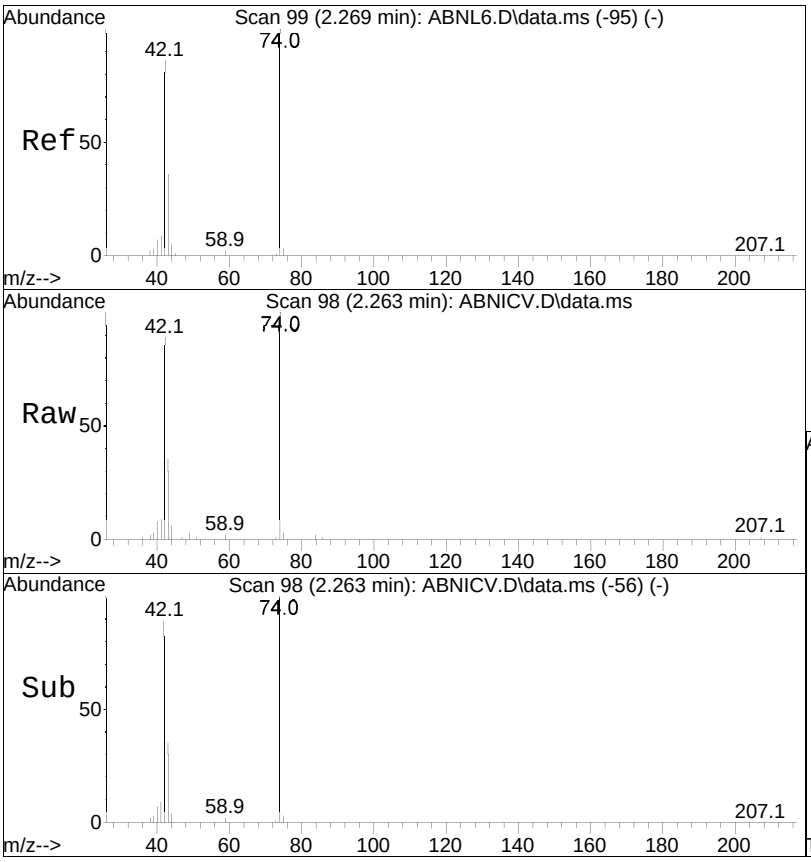
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\AP9L6.D•

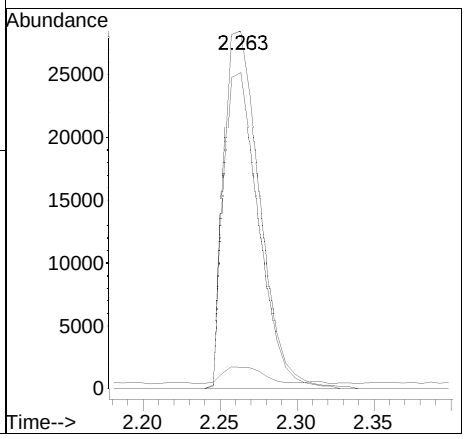


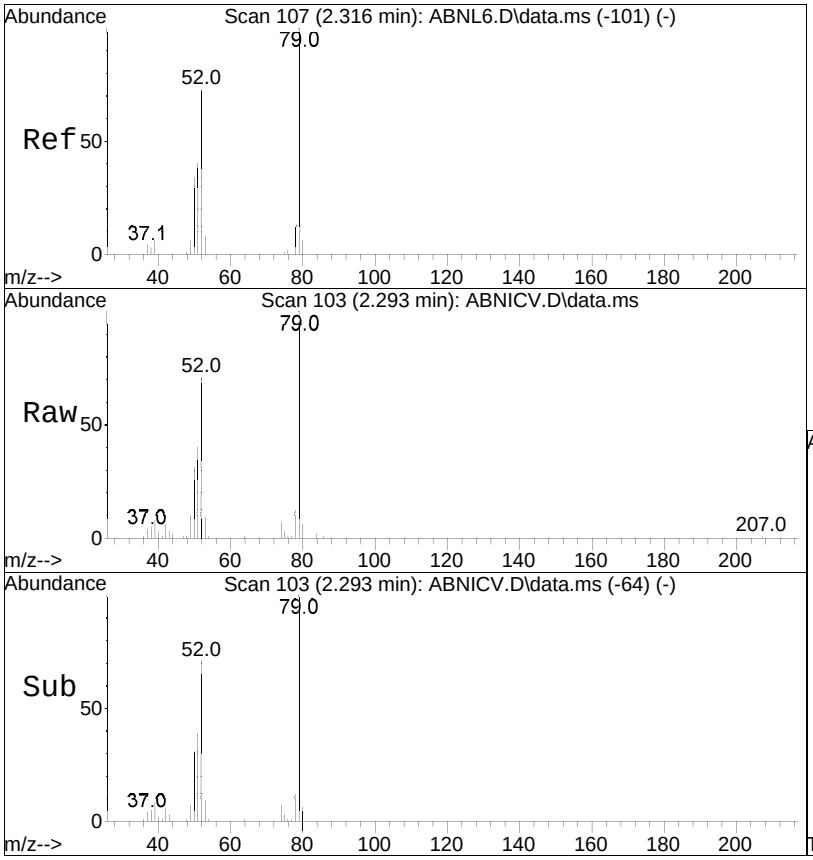


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

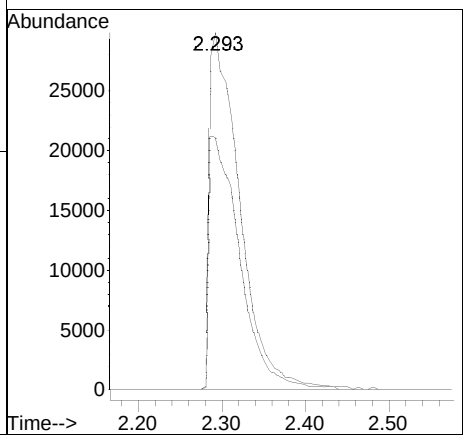


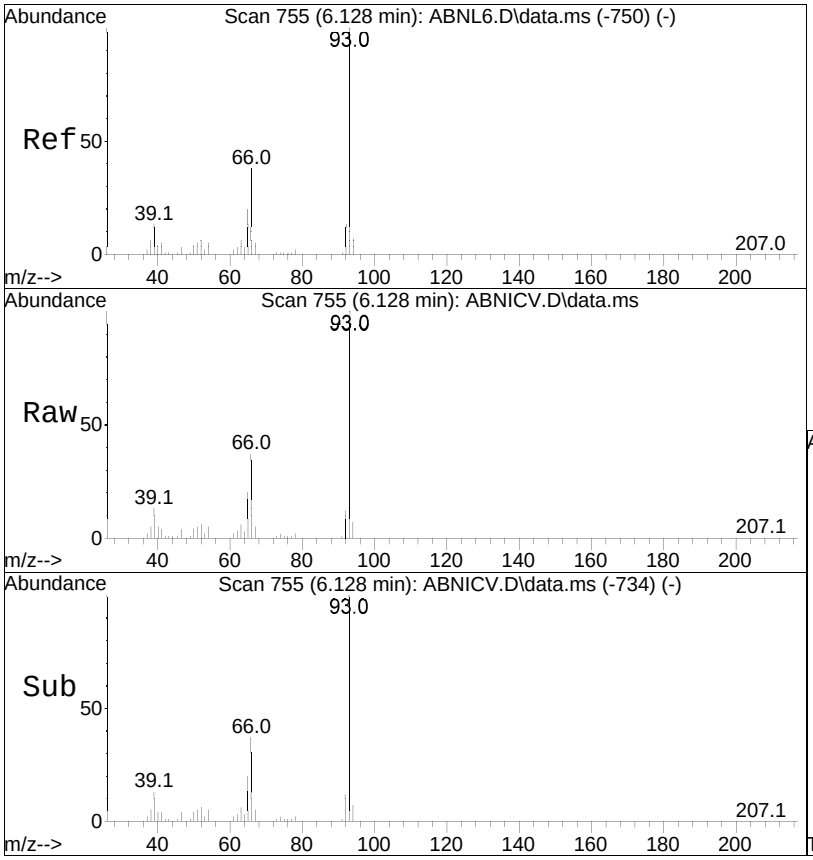


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

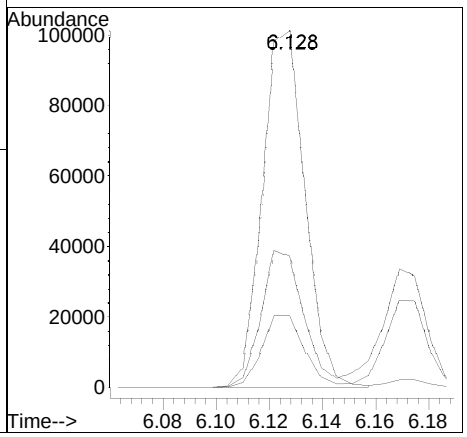


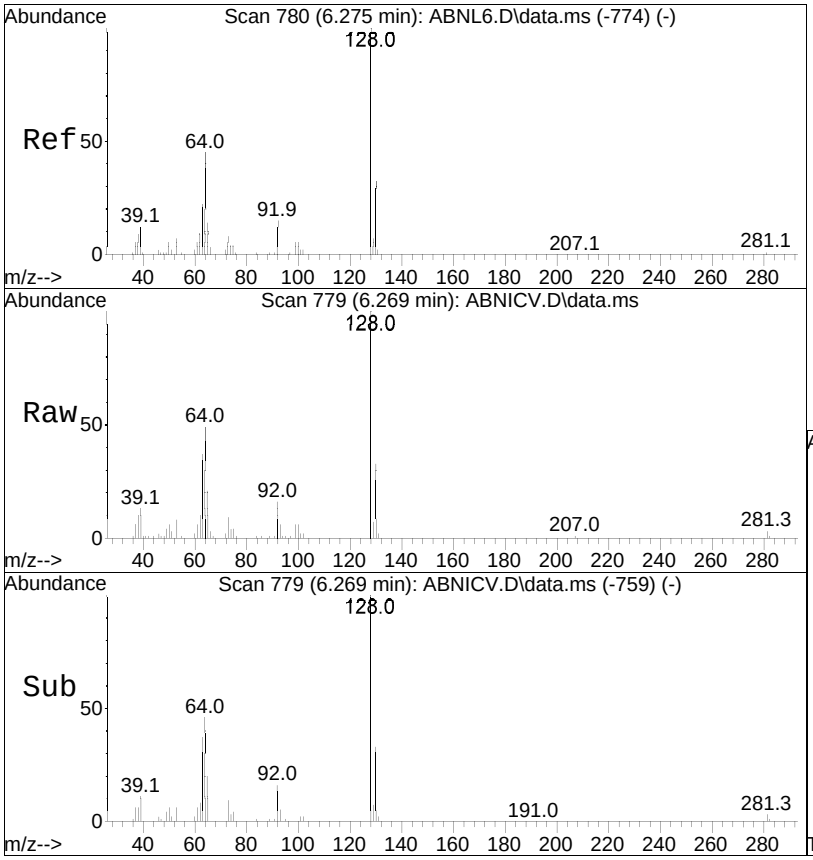


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

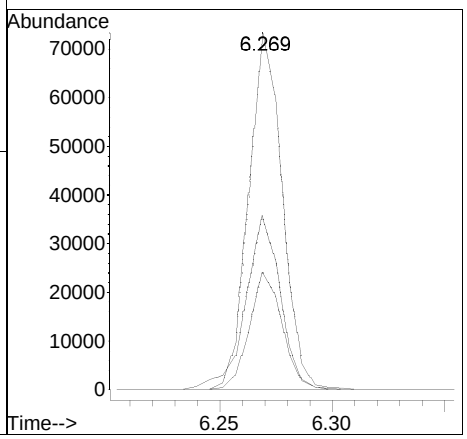


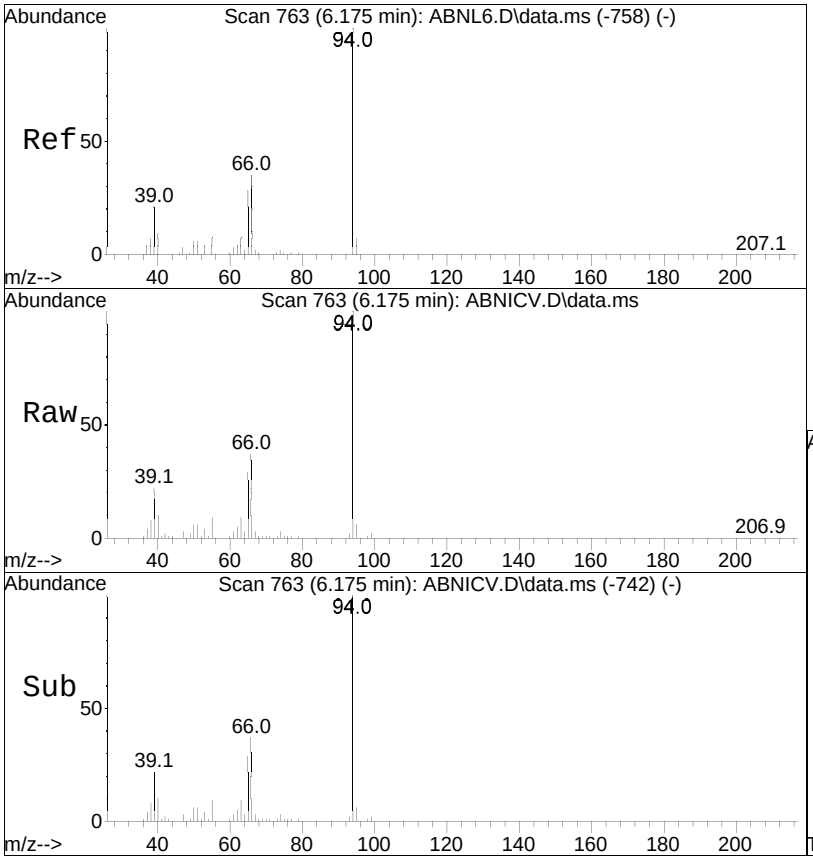


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

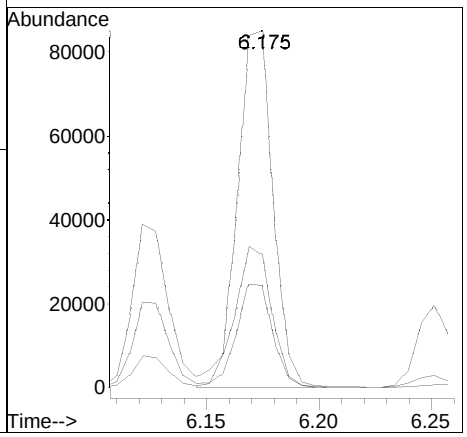


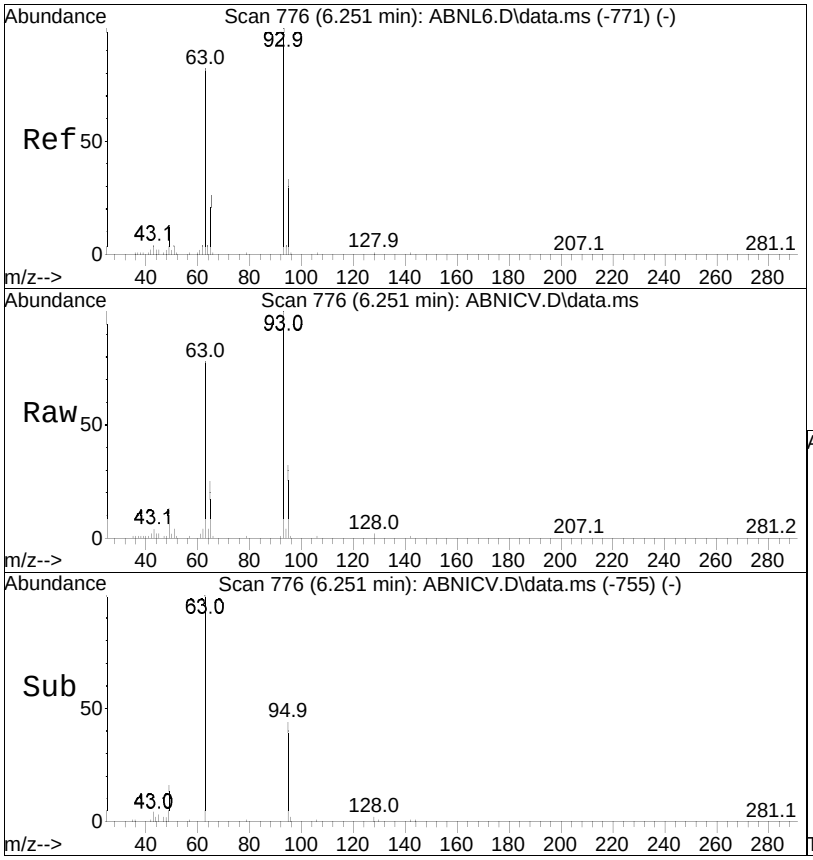


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

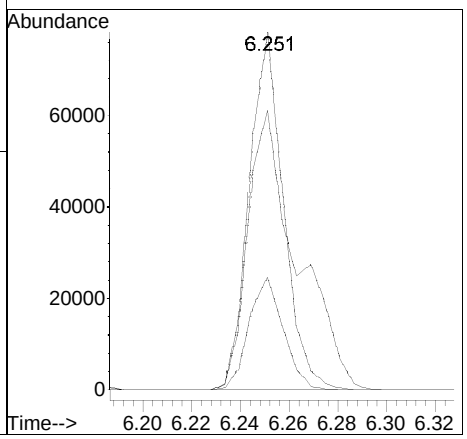


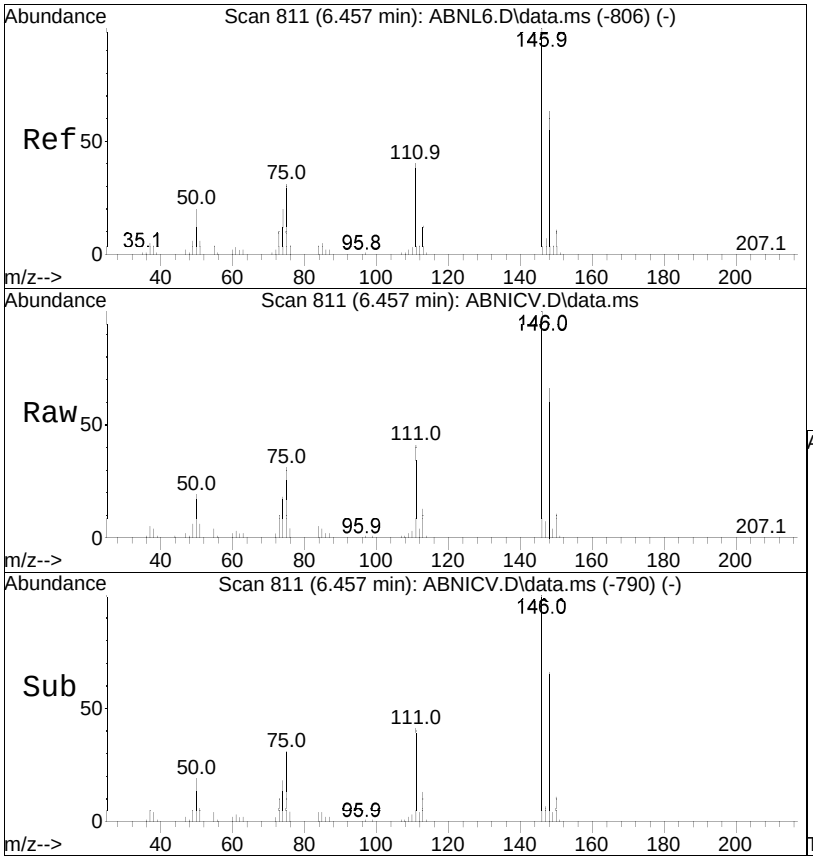


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

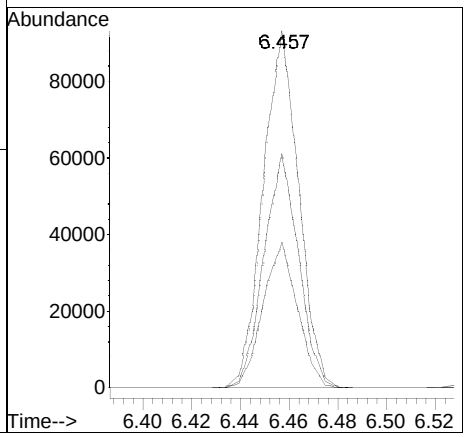


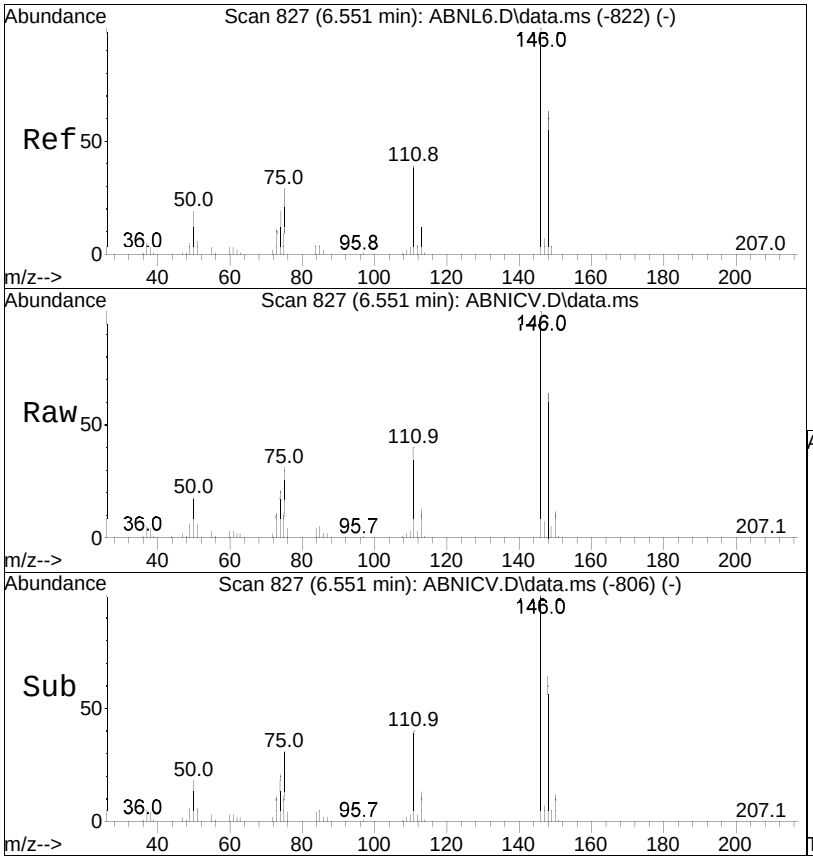


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

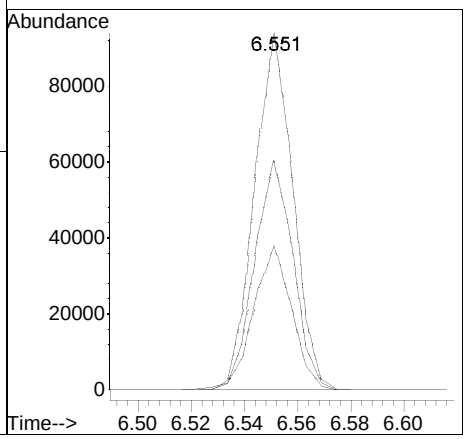


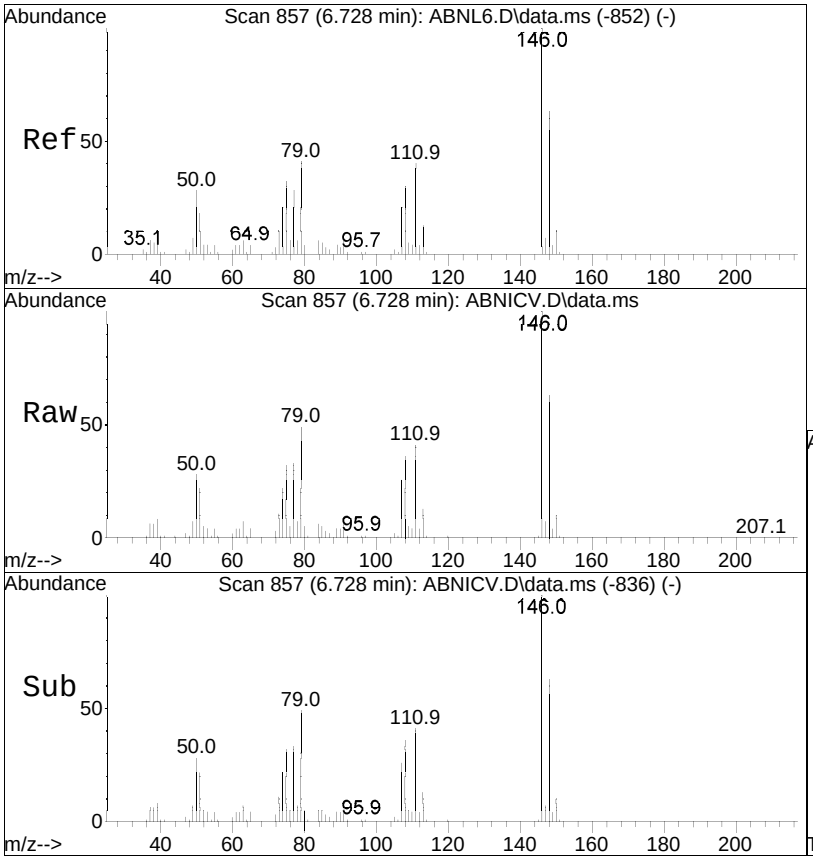


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

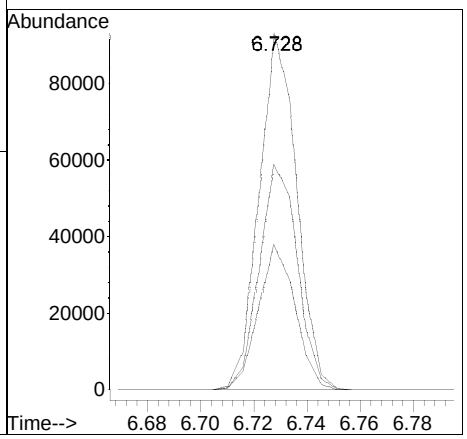


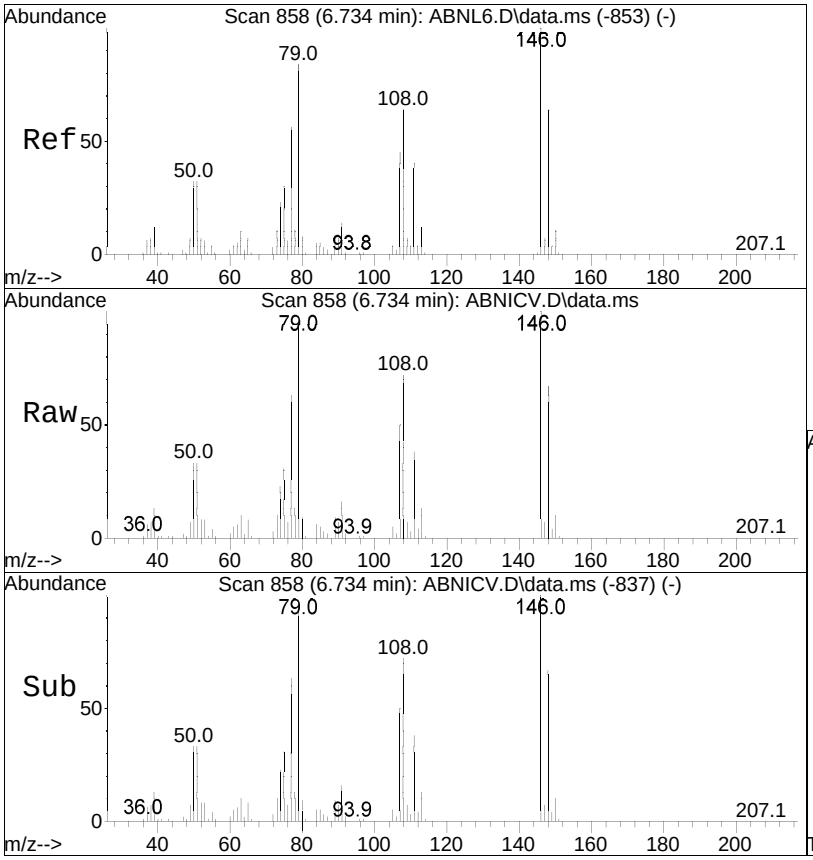


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

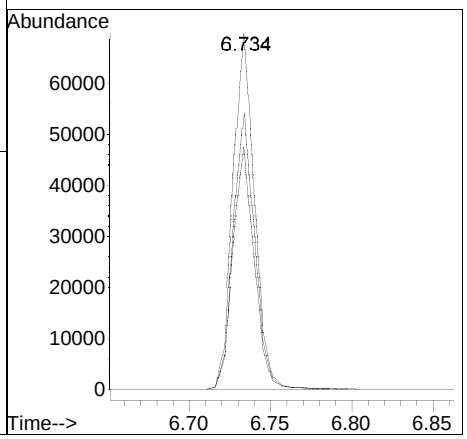


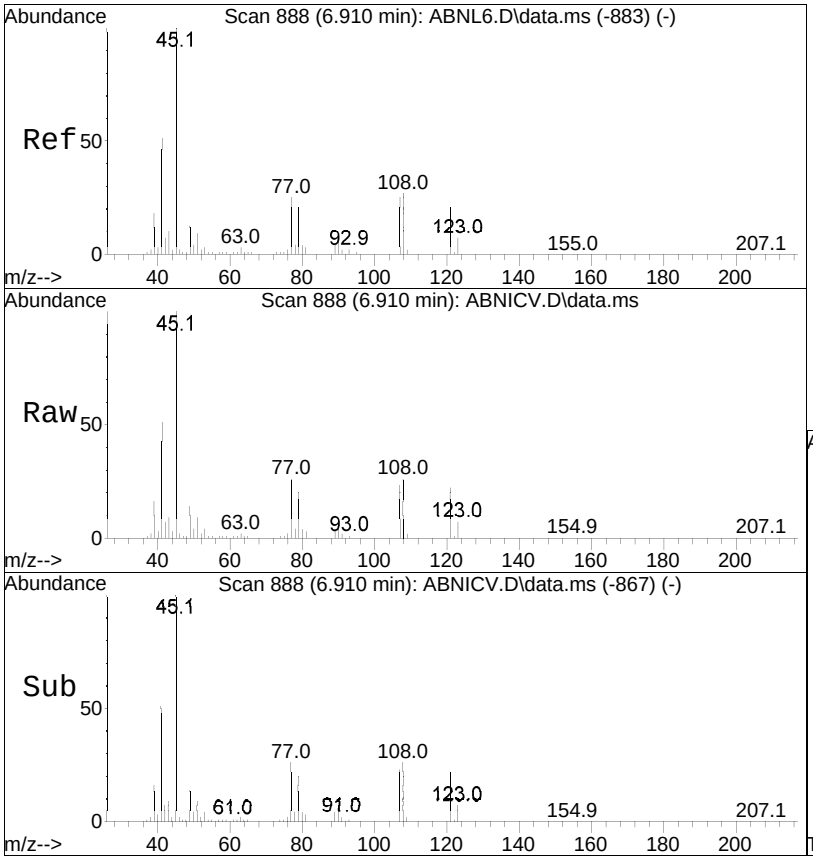


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

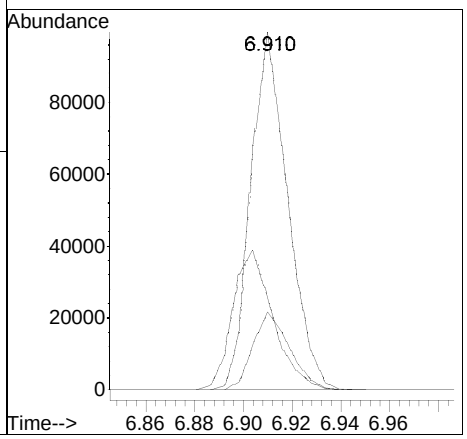


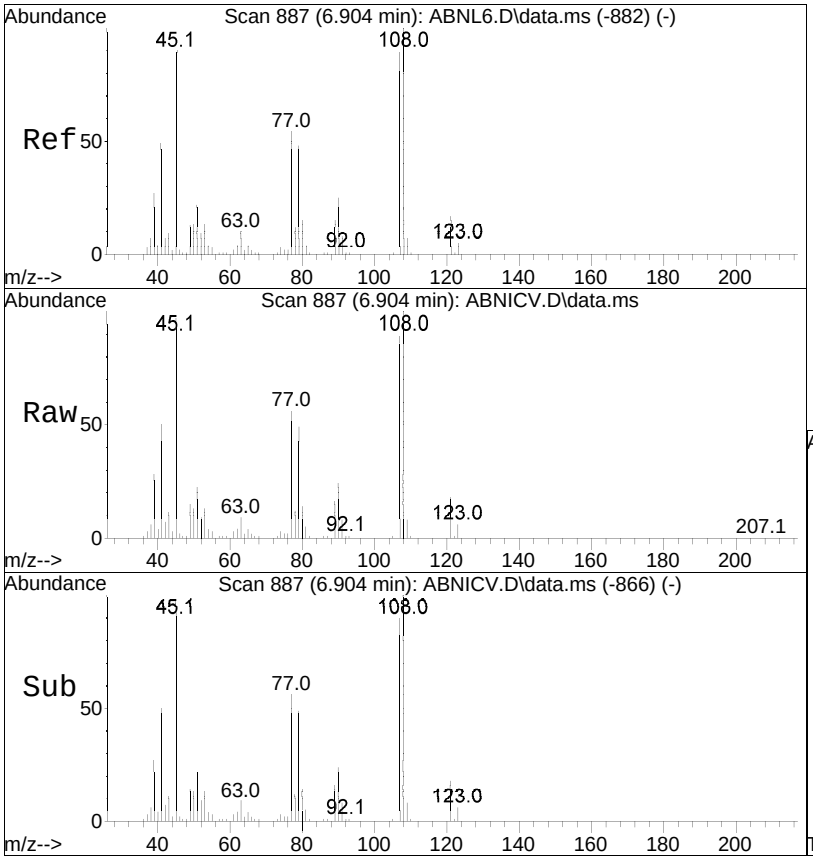


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

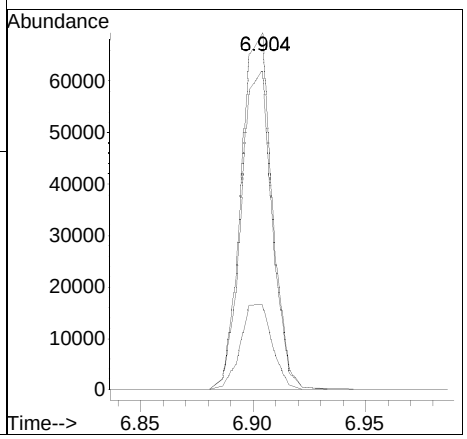


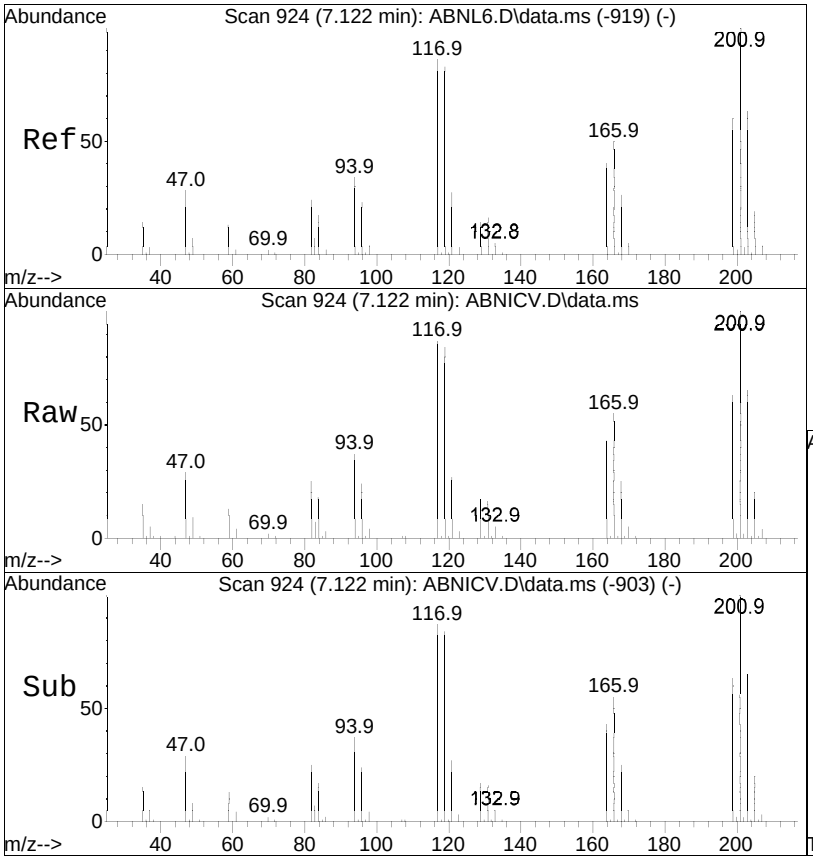


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

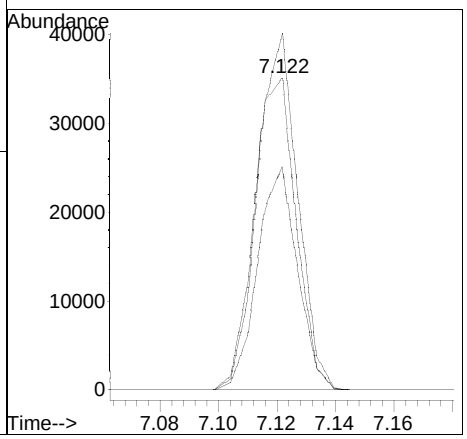


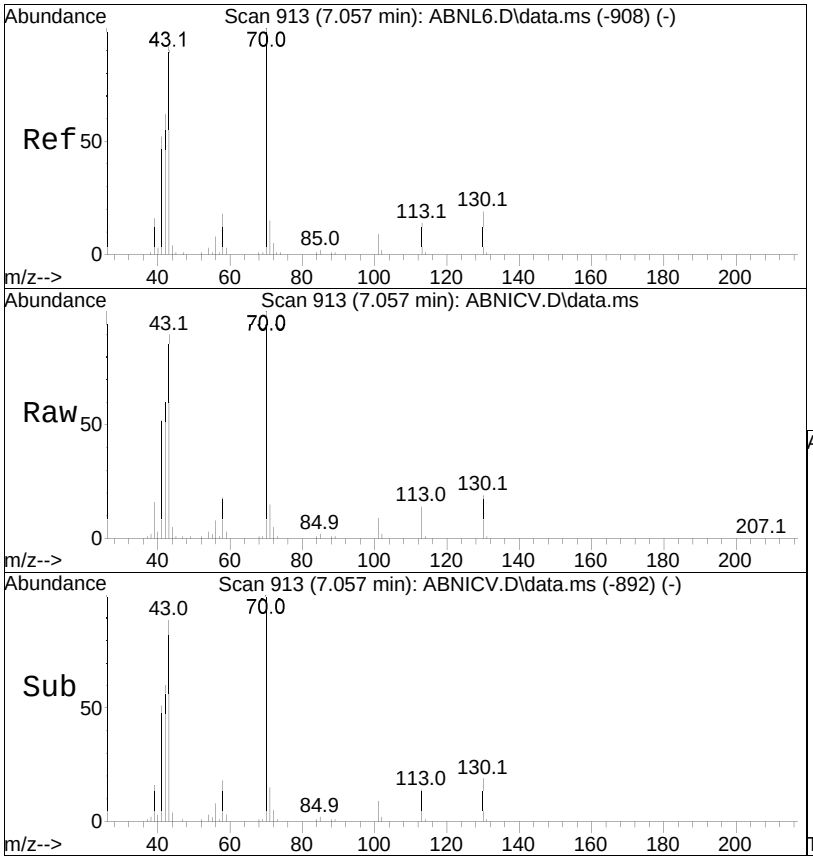


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

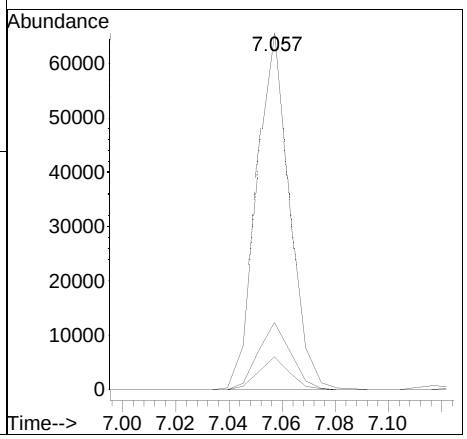


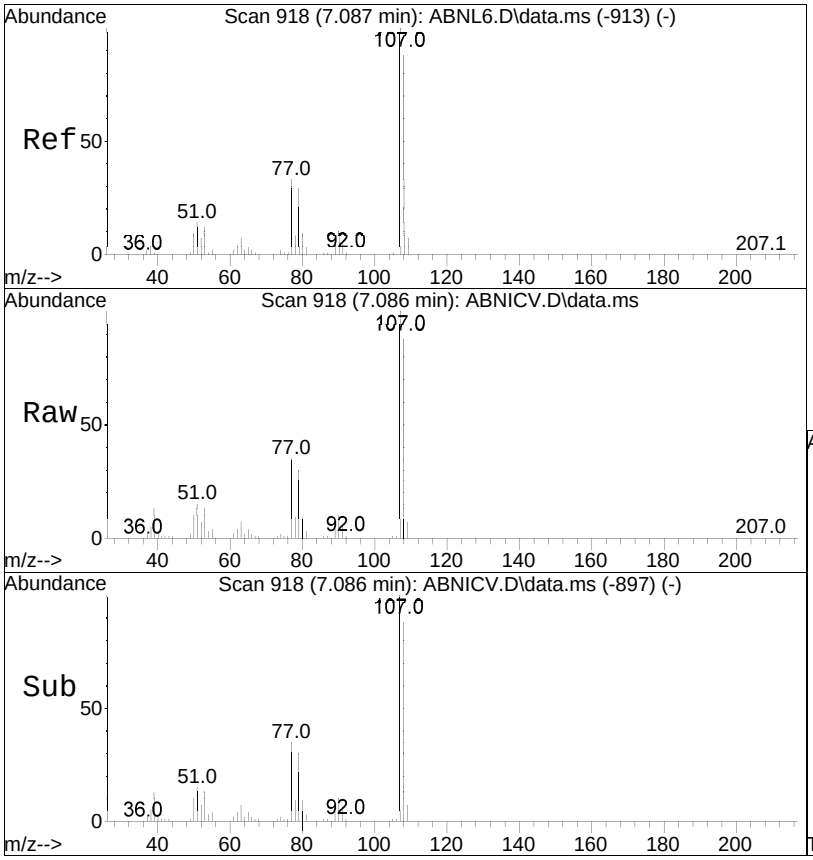


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

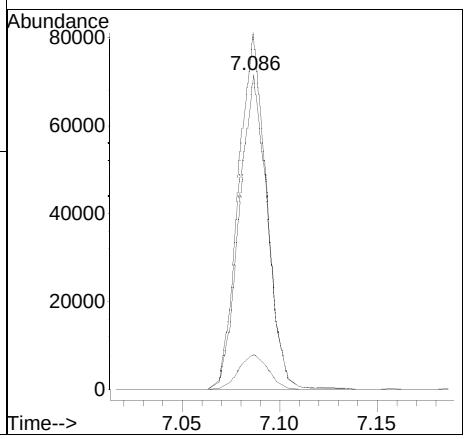


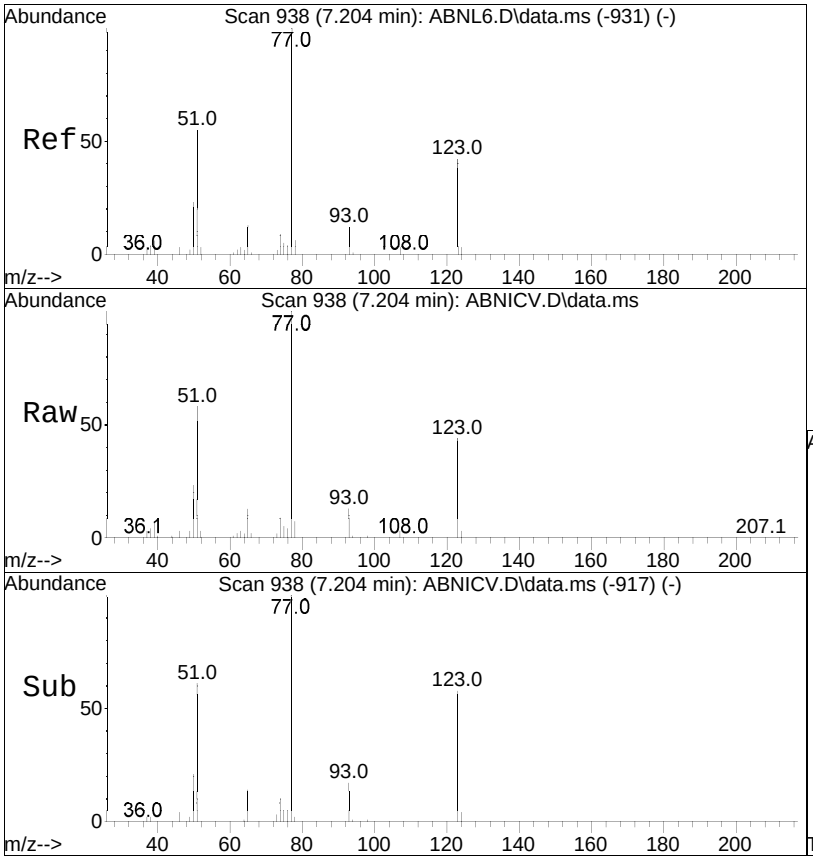


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

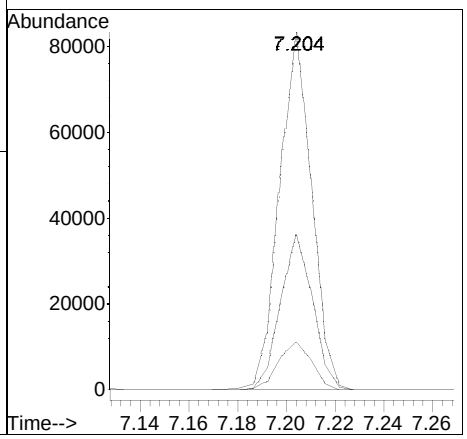


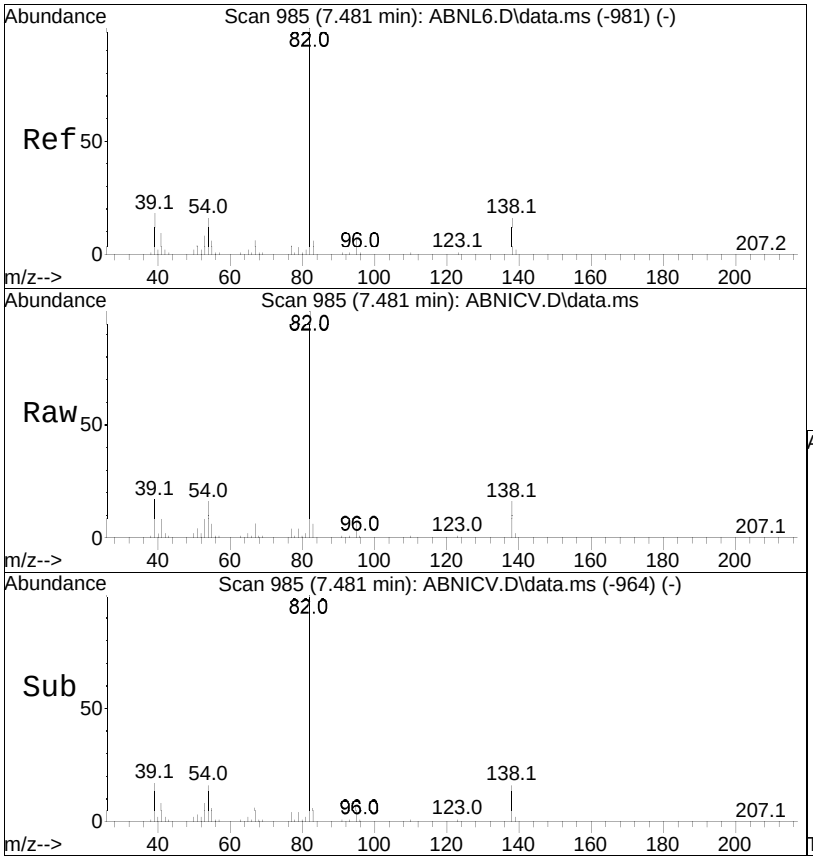


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

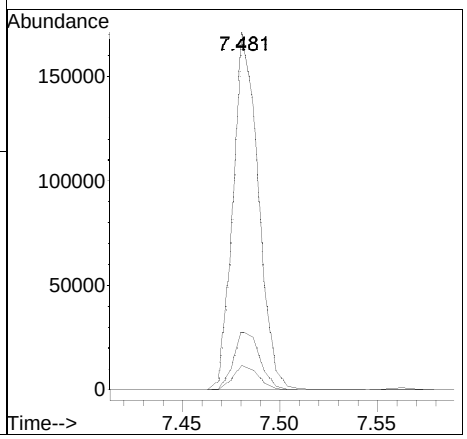


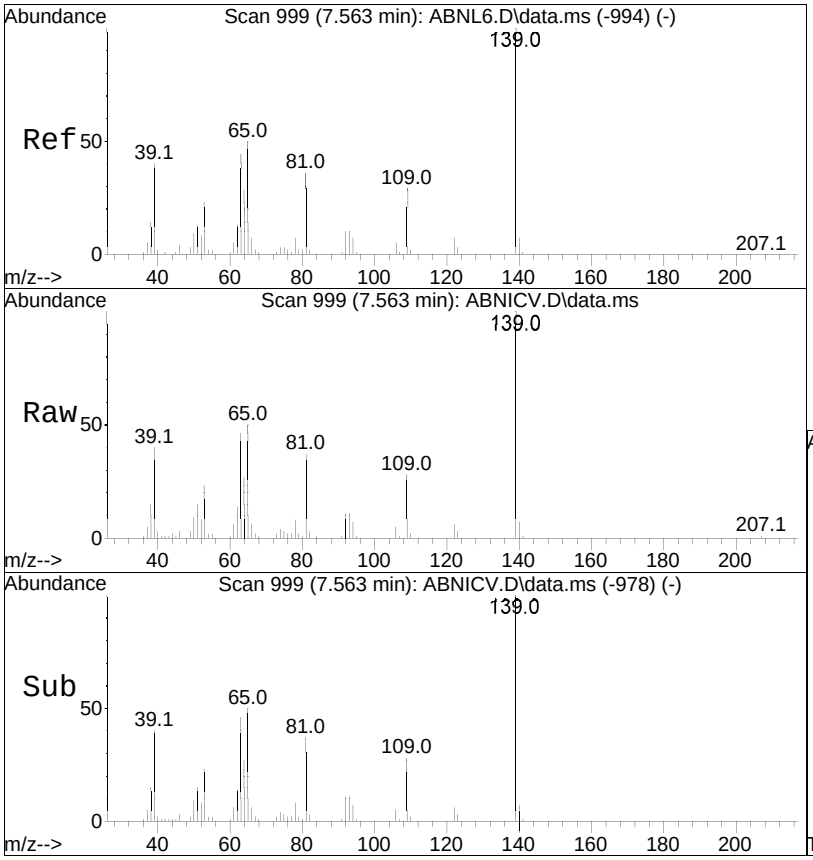


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

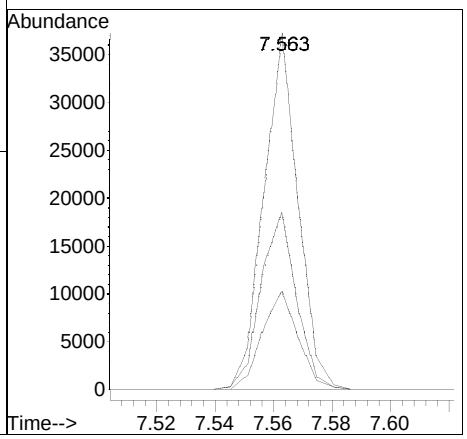


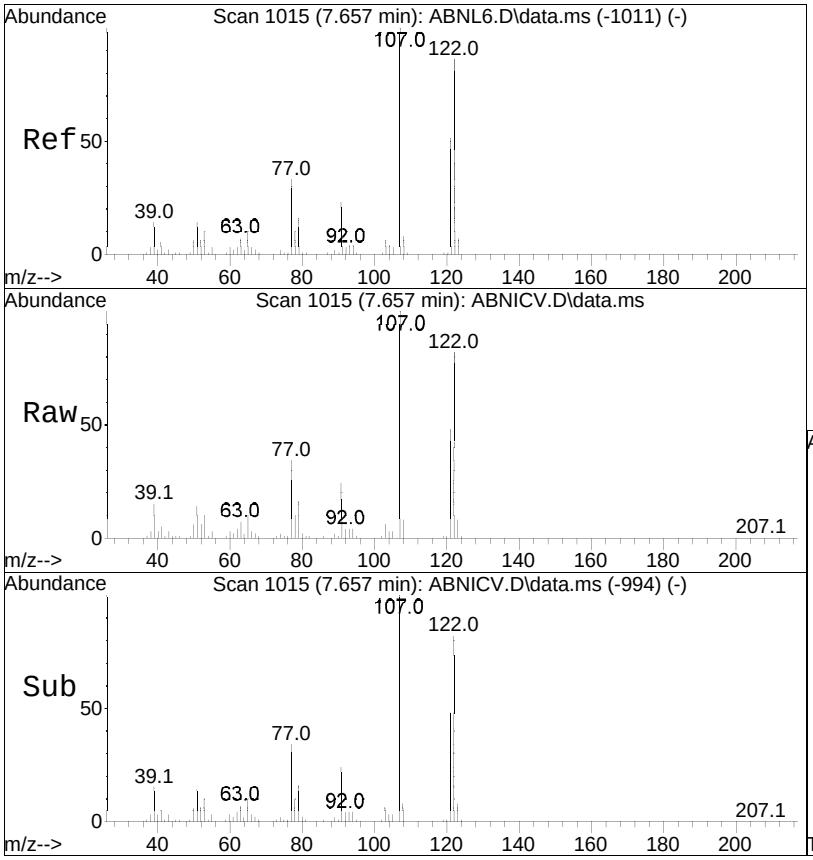


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

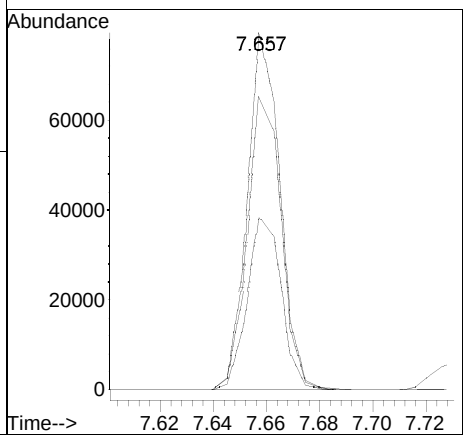


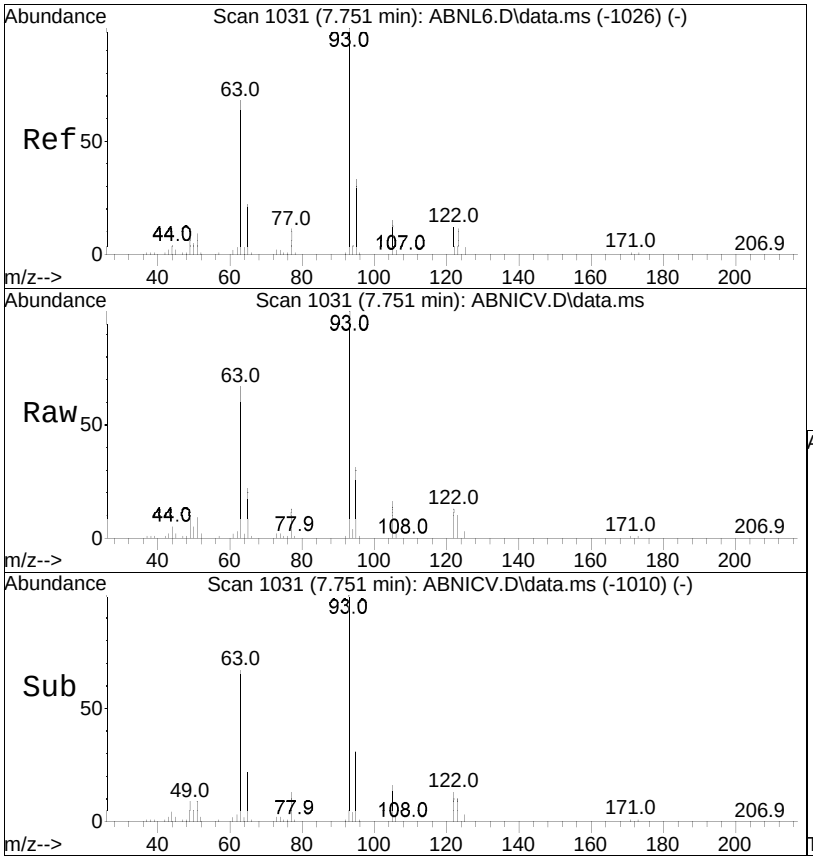


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

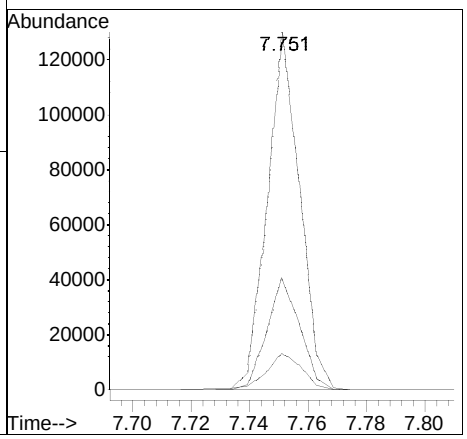


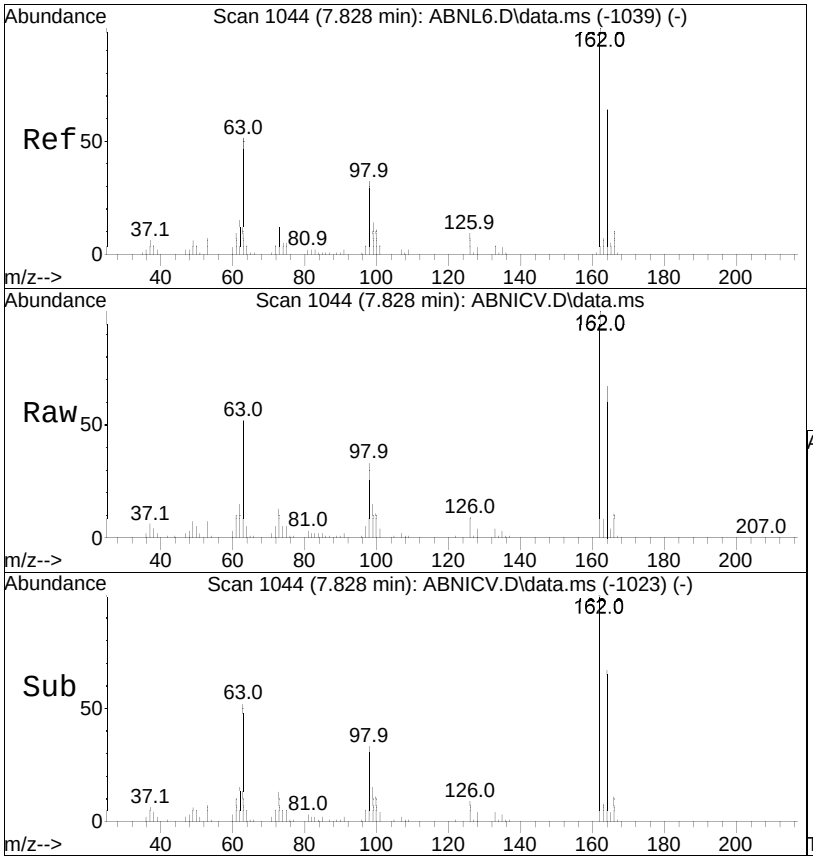


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

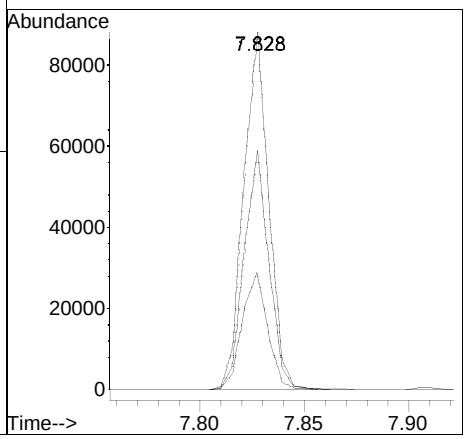


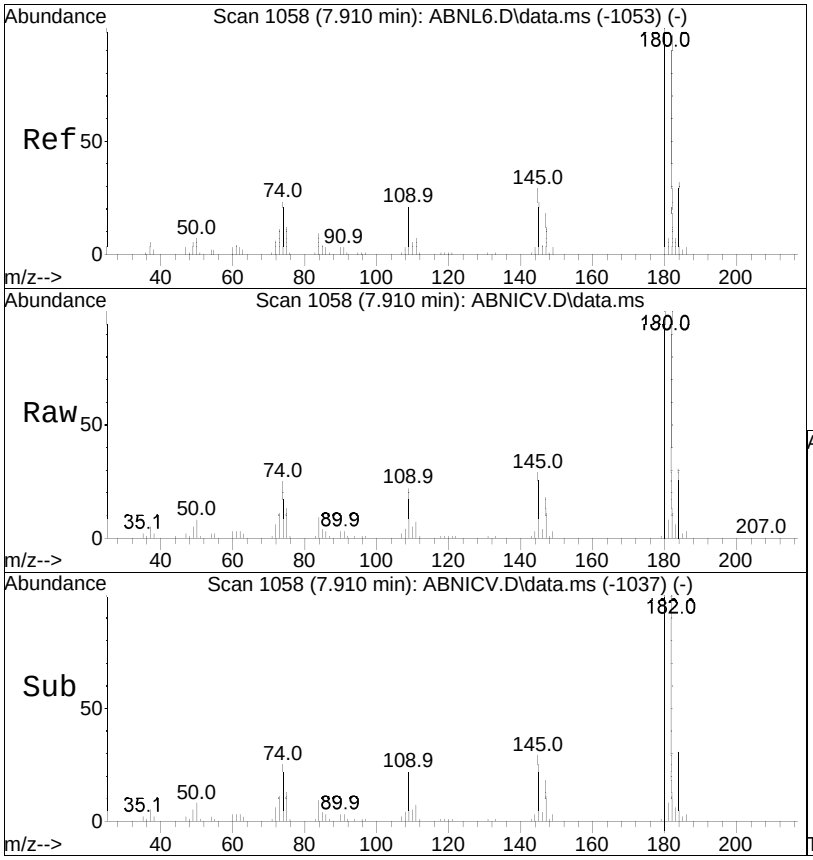


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

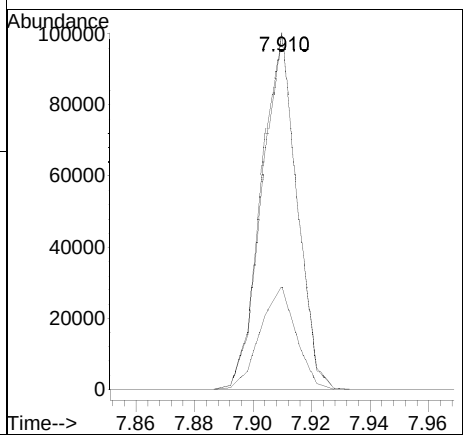


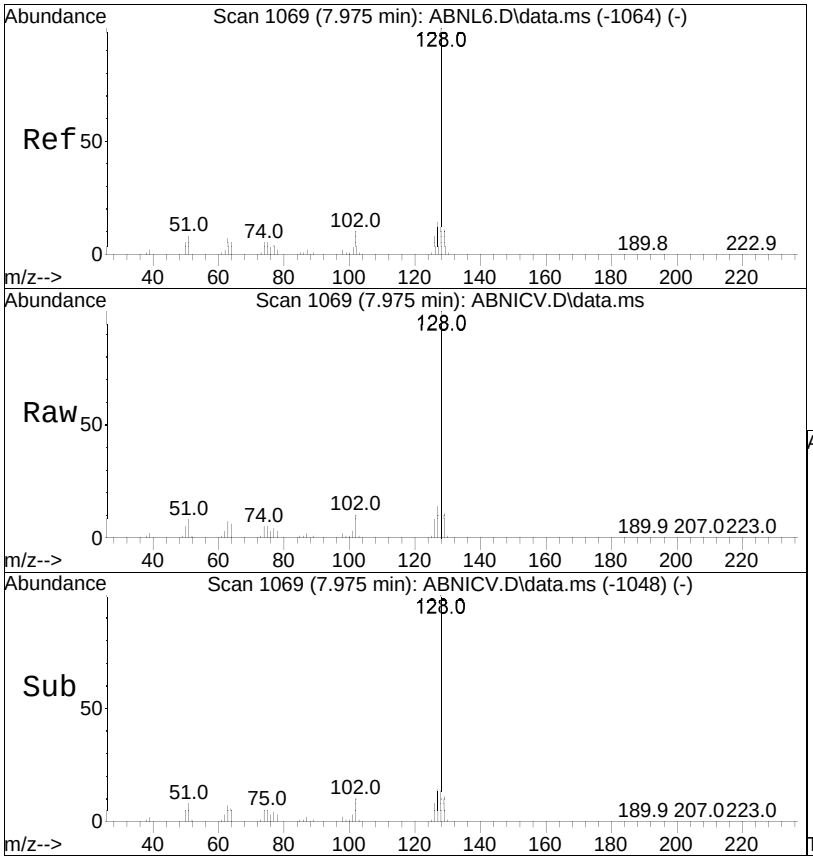


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

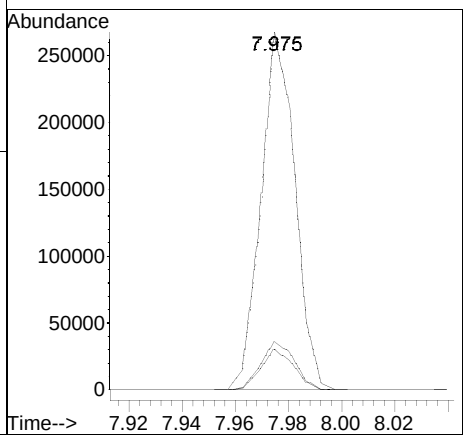


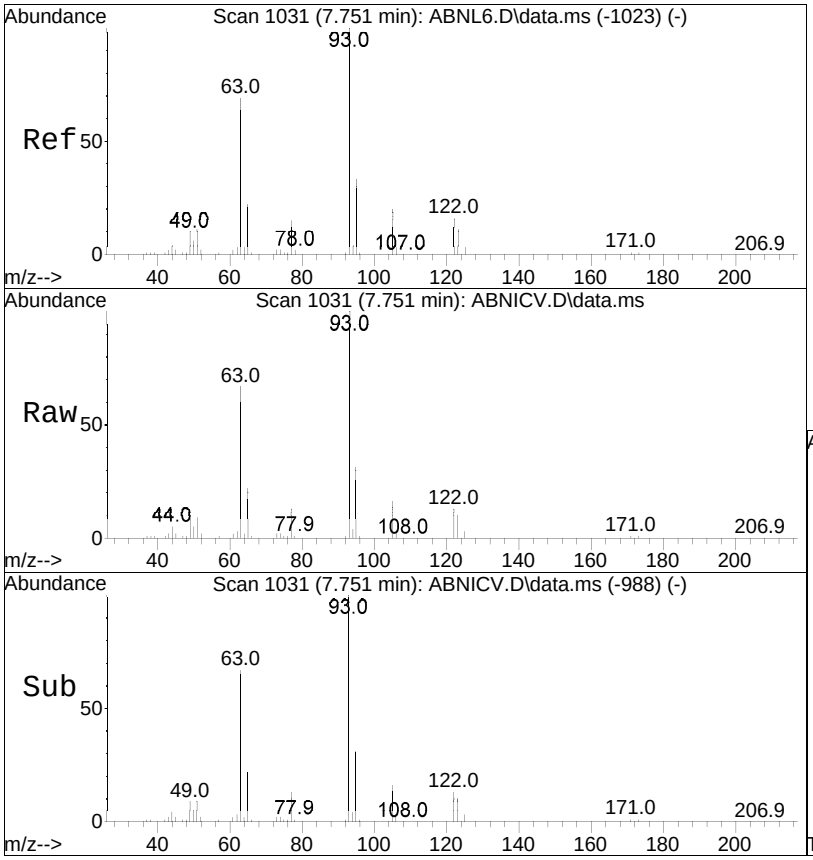


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

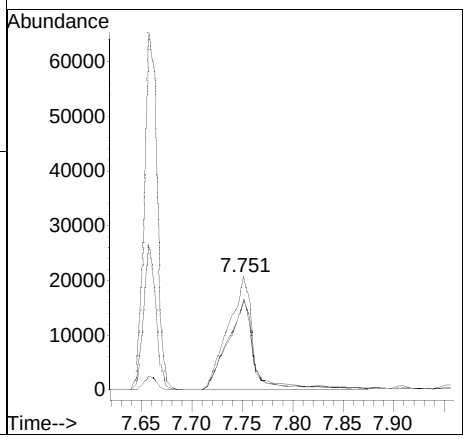


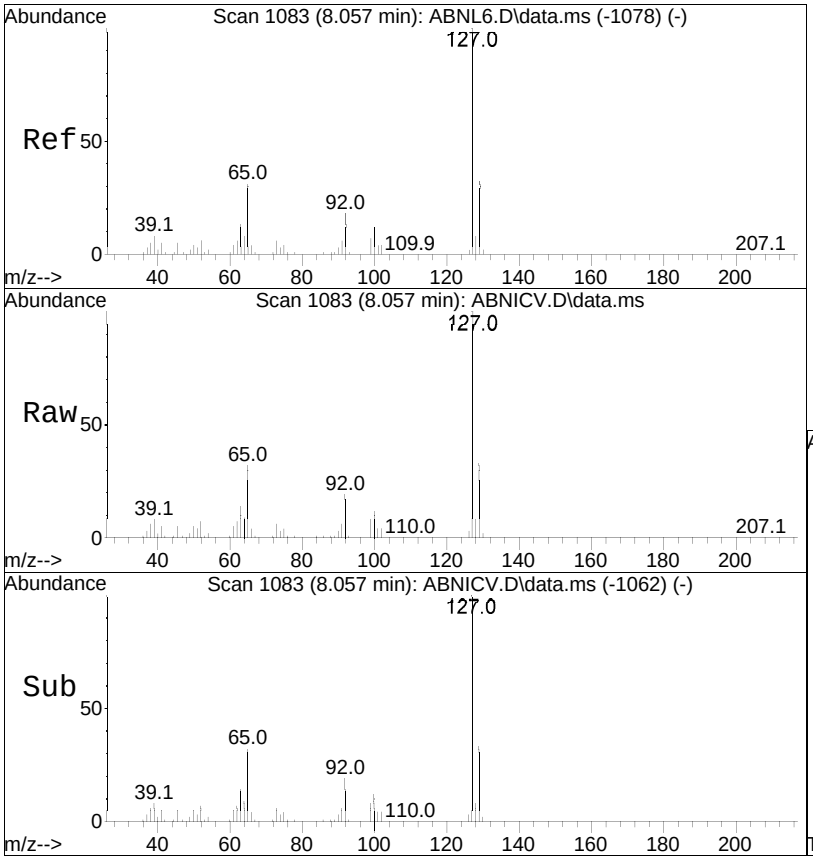


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

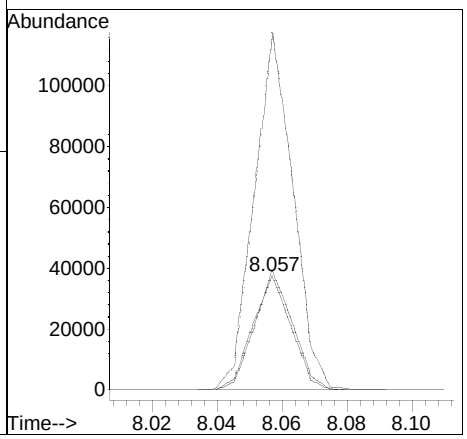


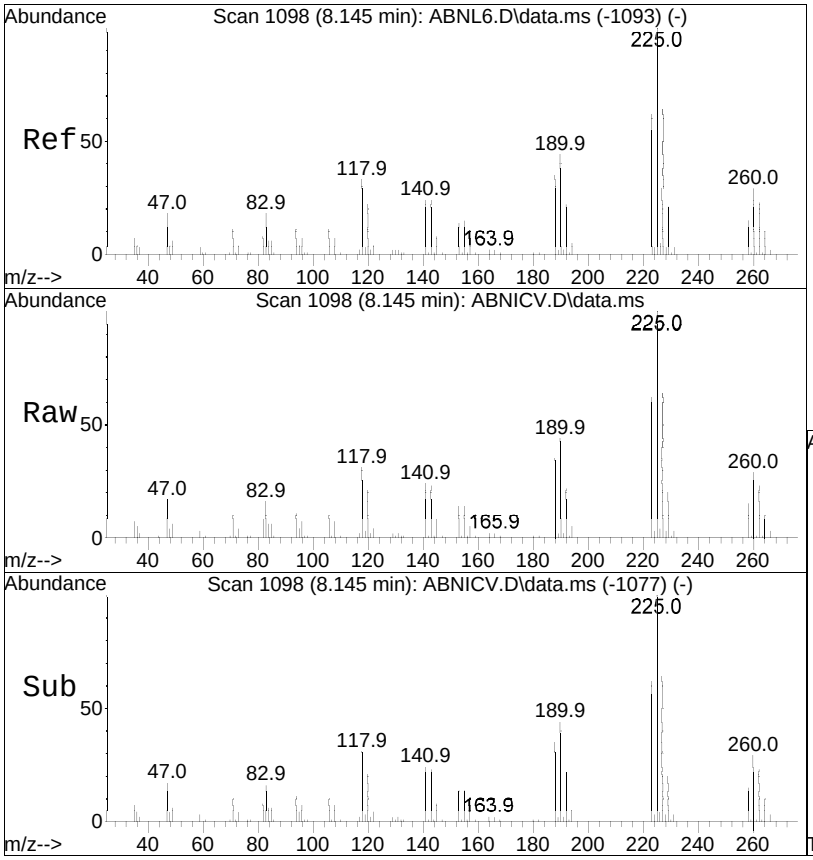


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

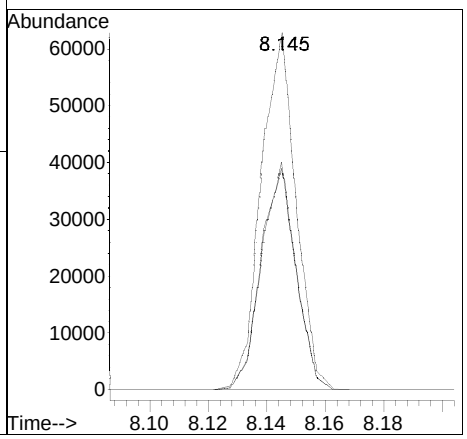


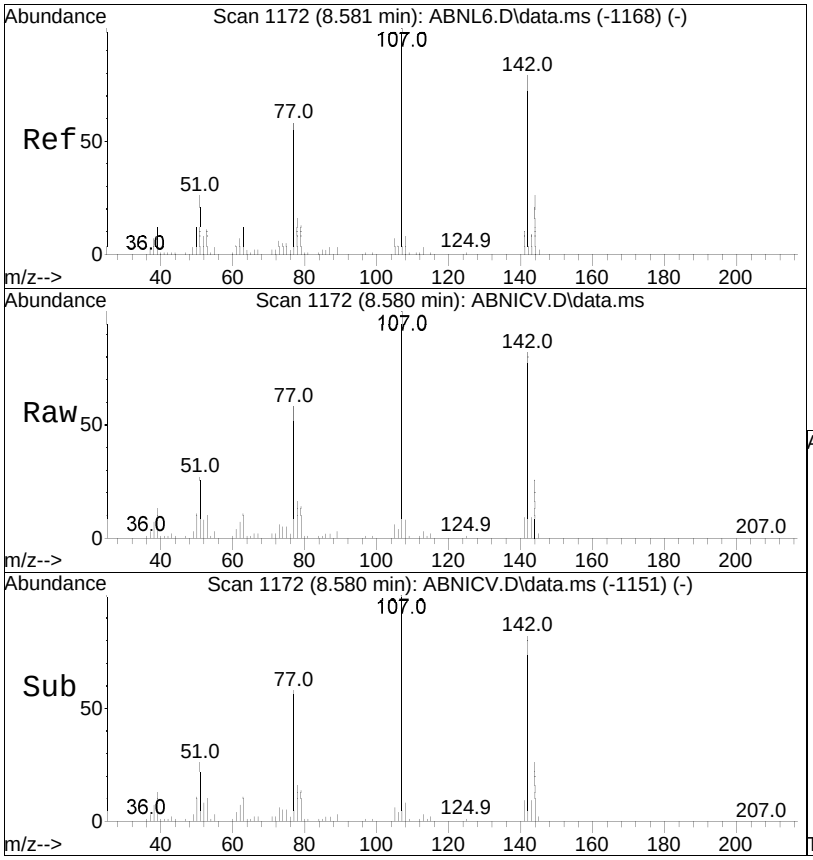


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

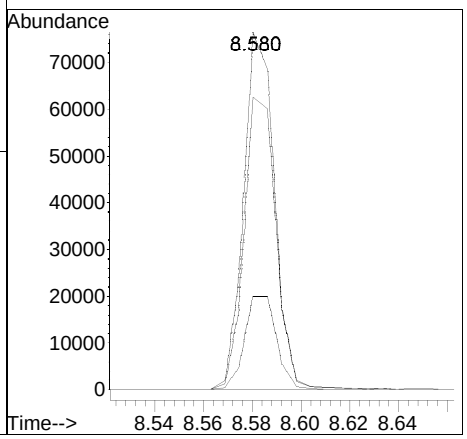


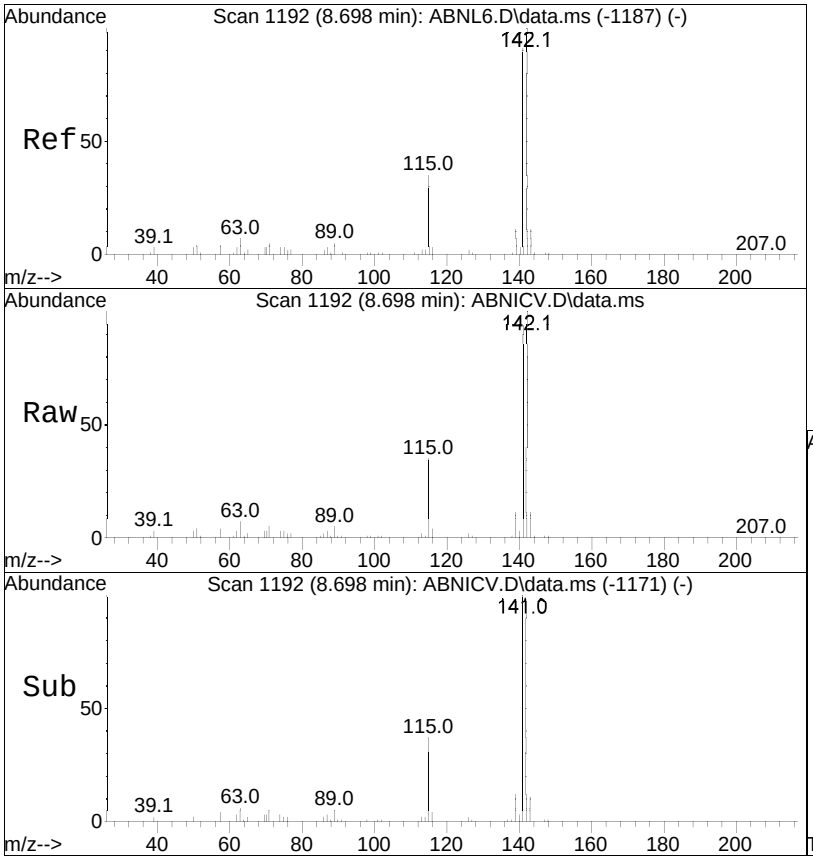


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

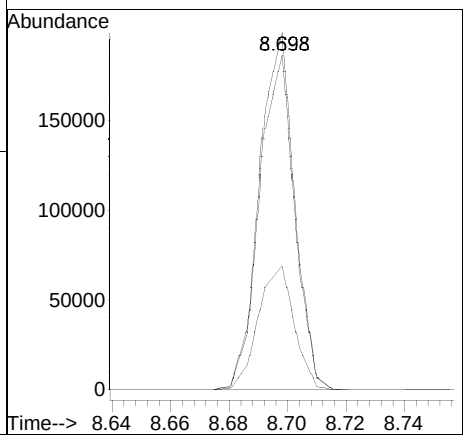


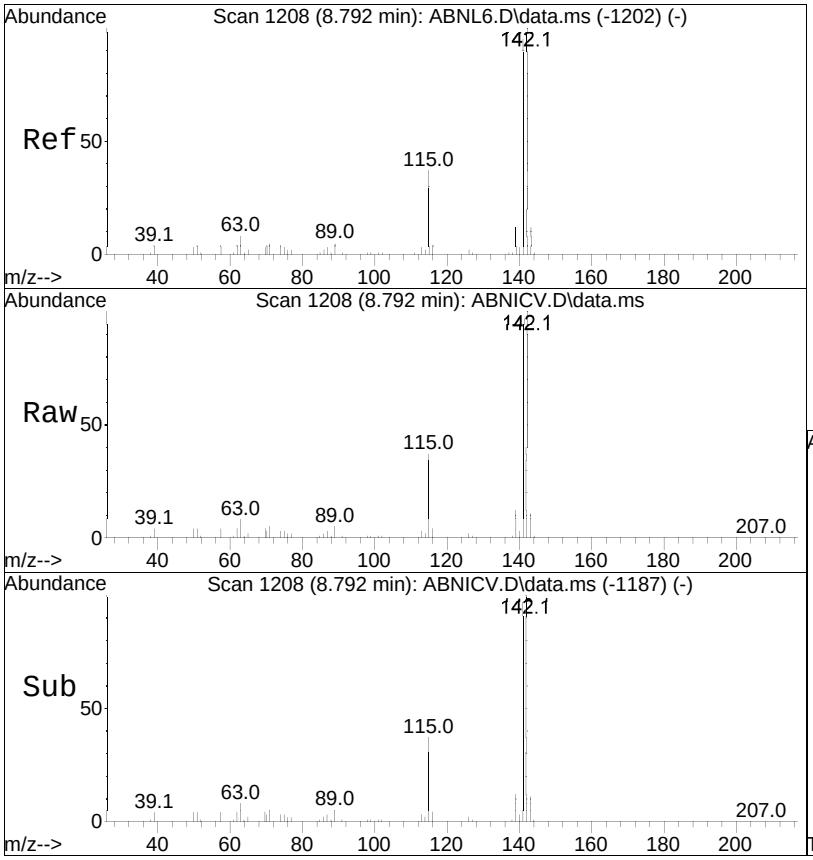


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

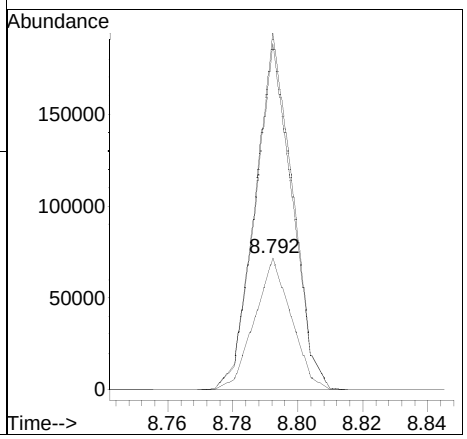


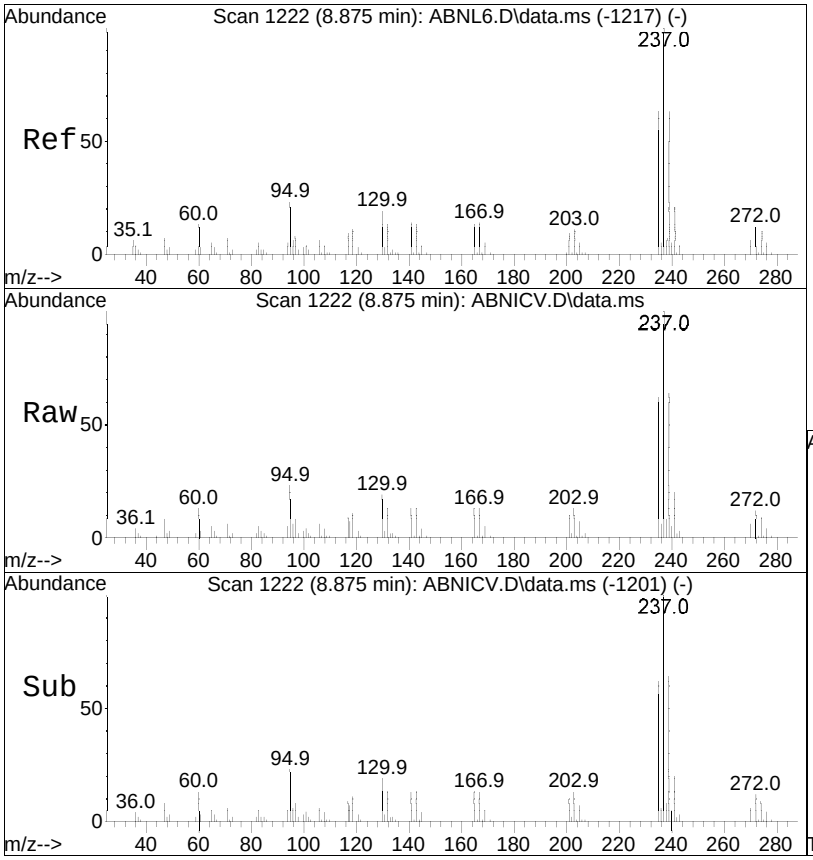


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

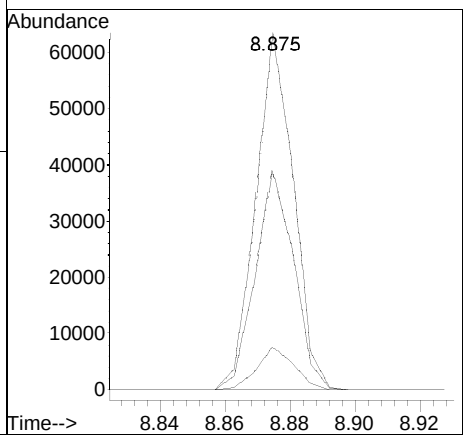


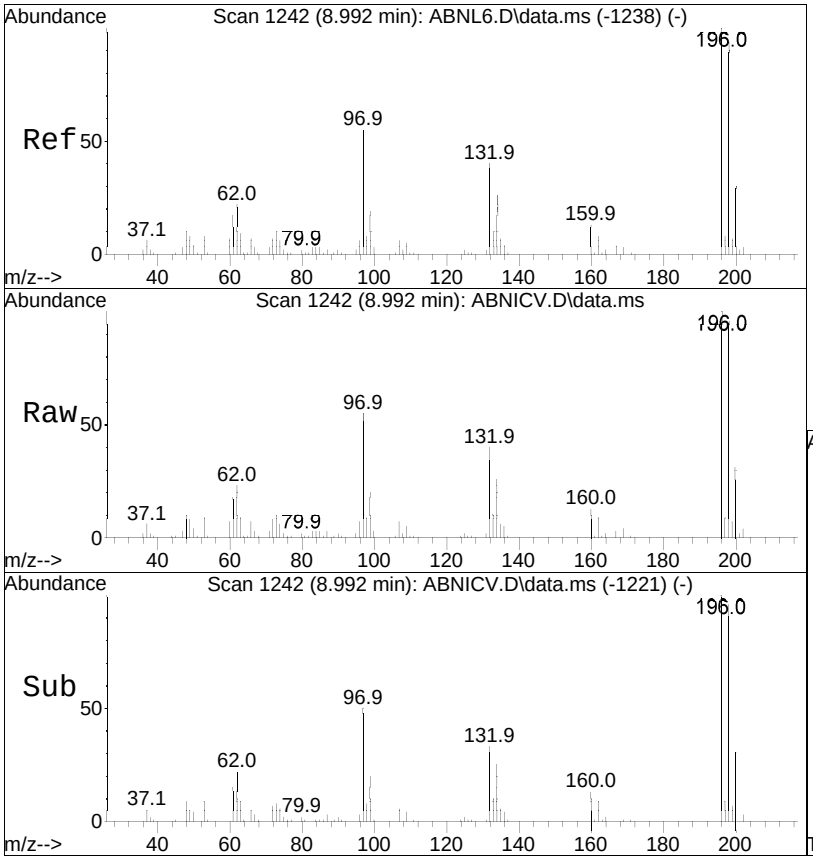


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

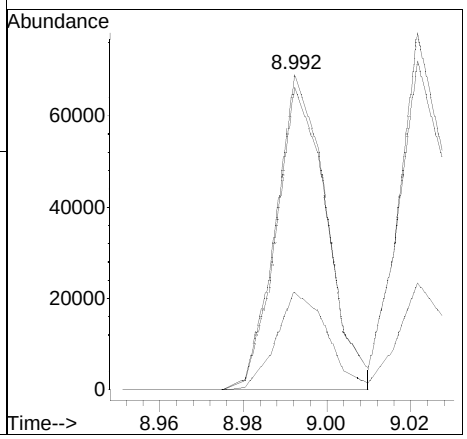


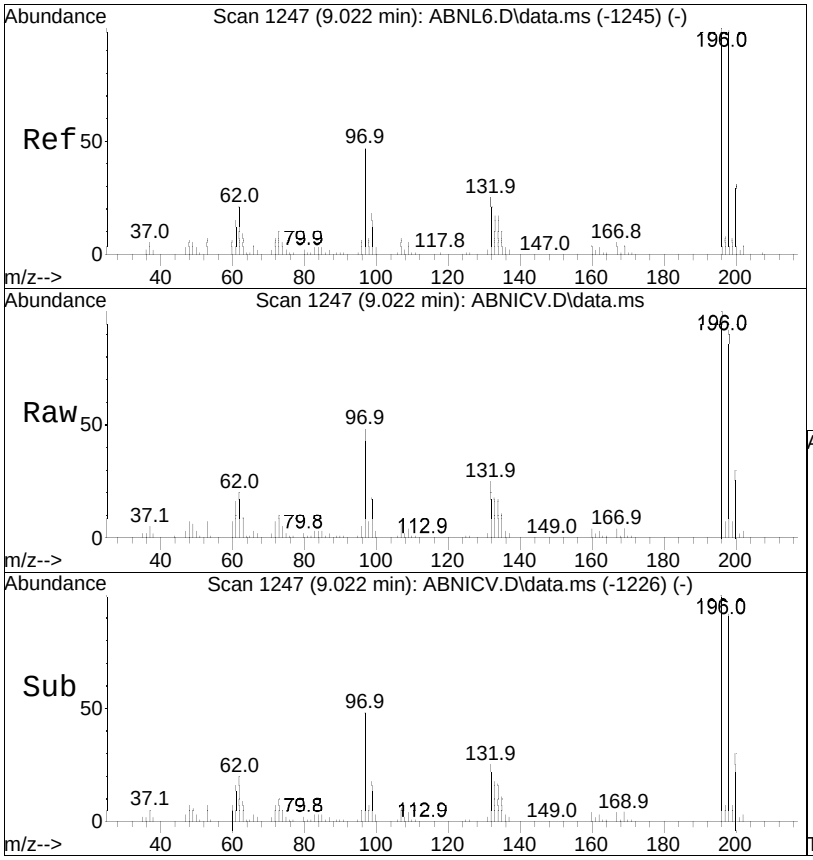


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

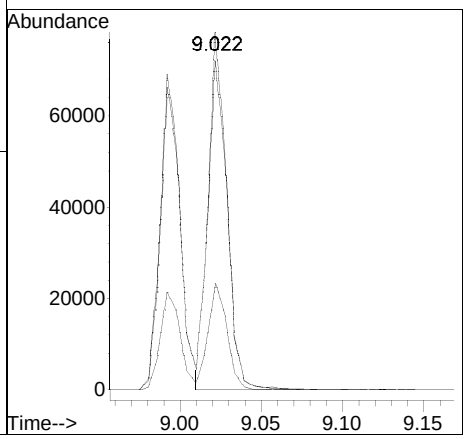


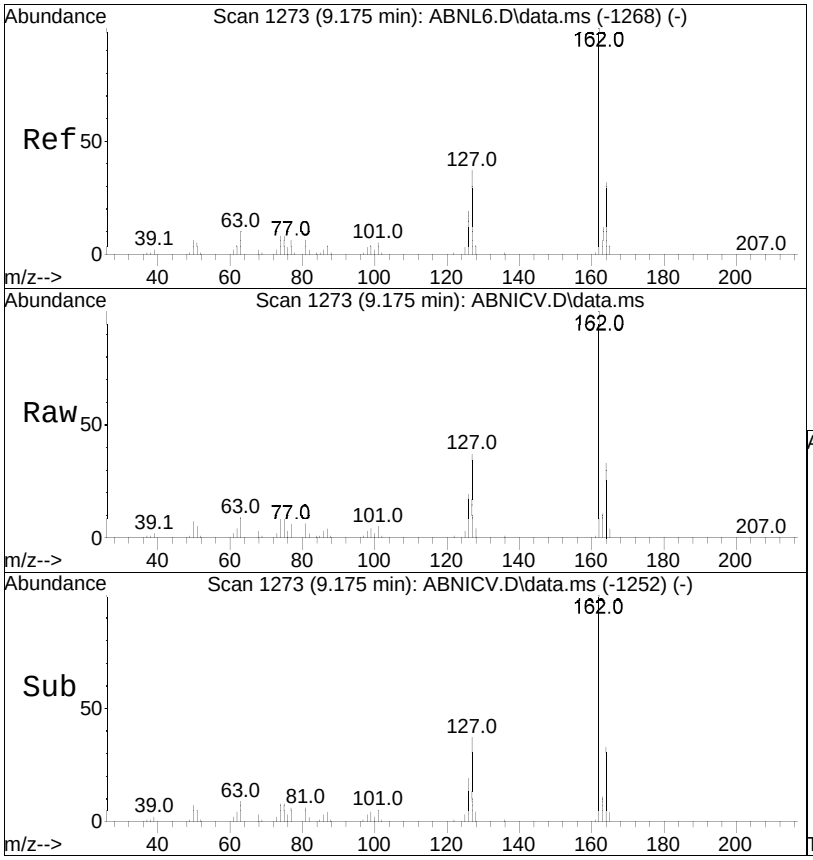


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

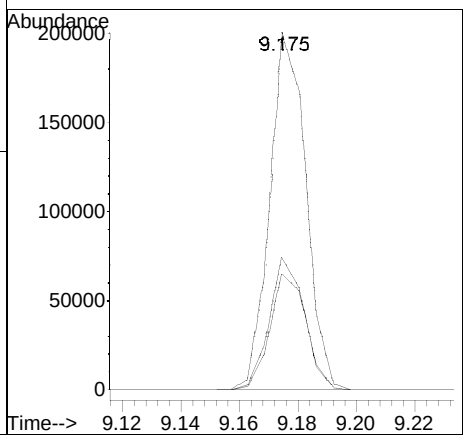


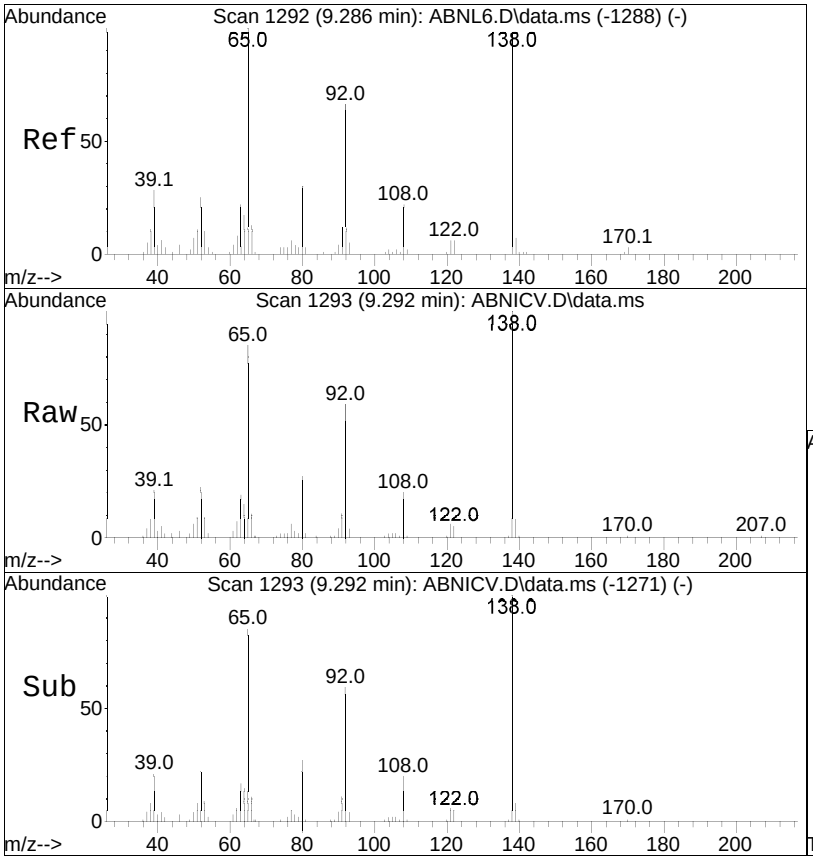


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

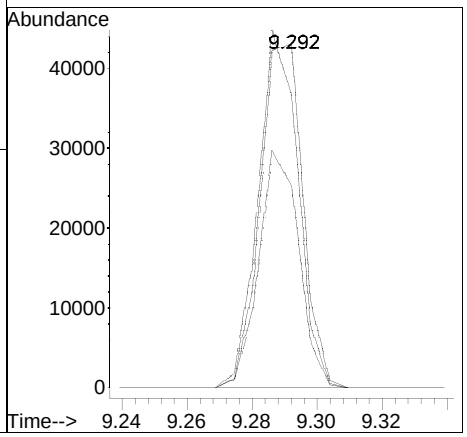


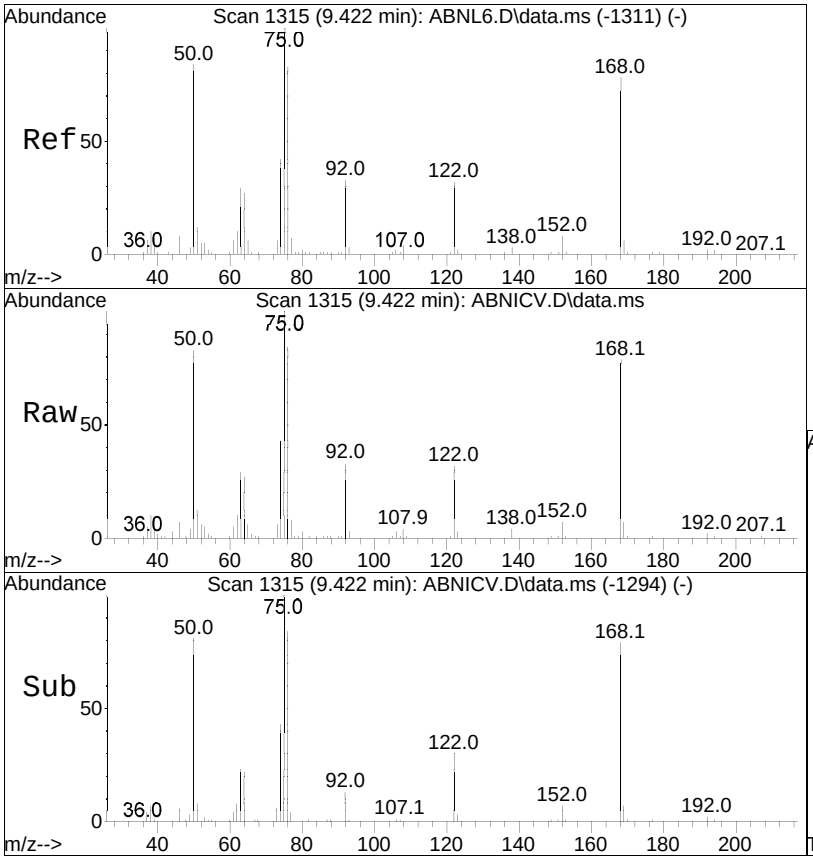


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

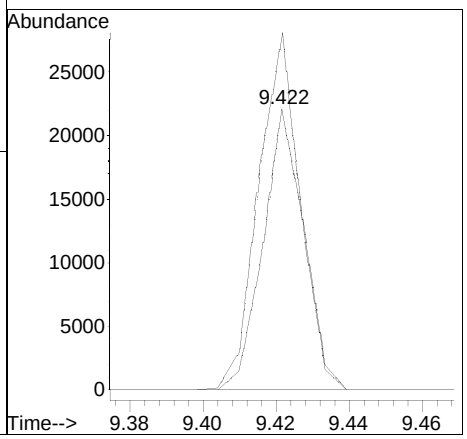


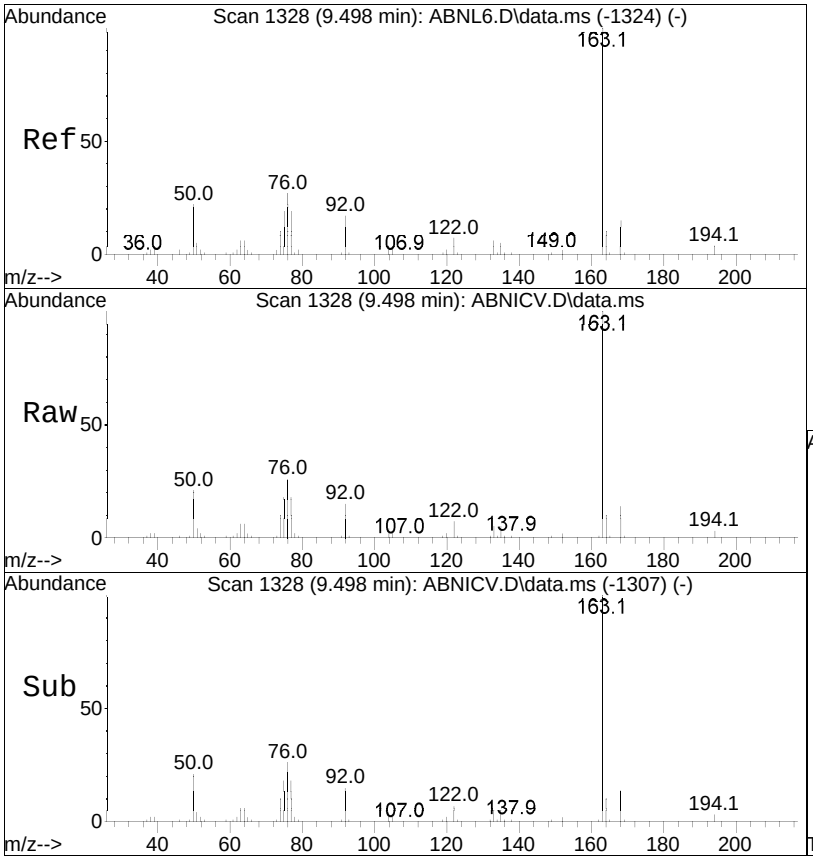


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

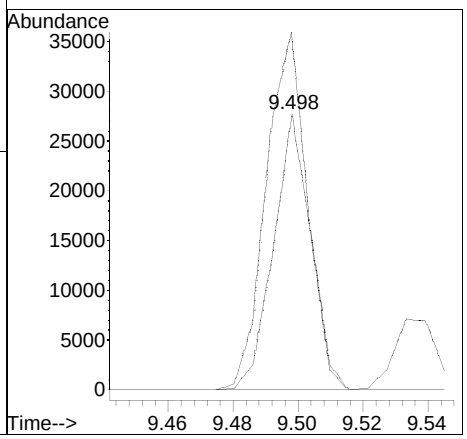


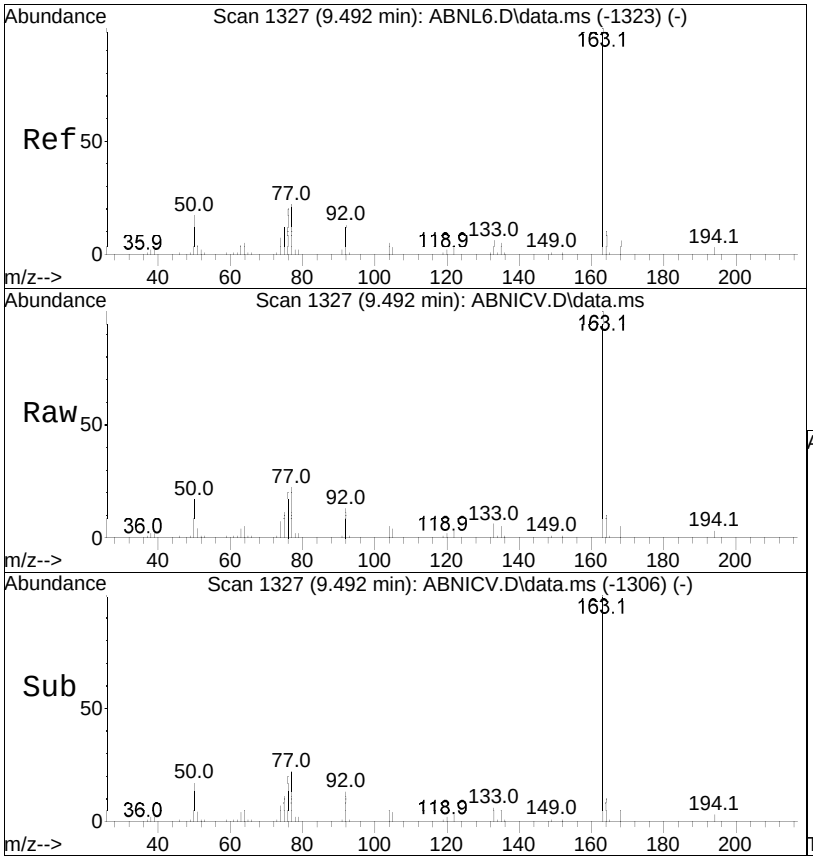


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

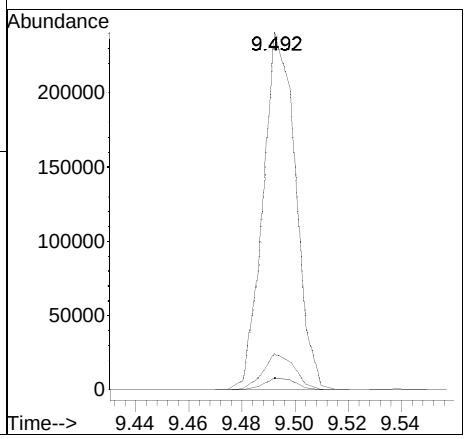


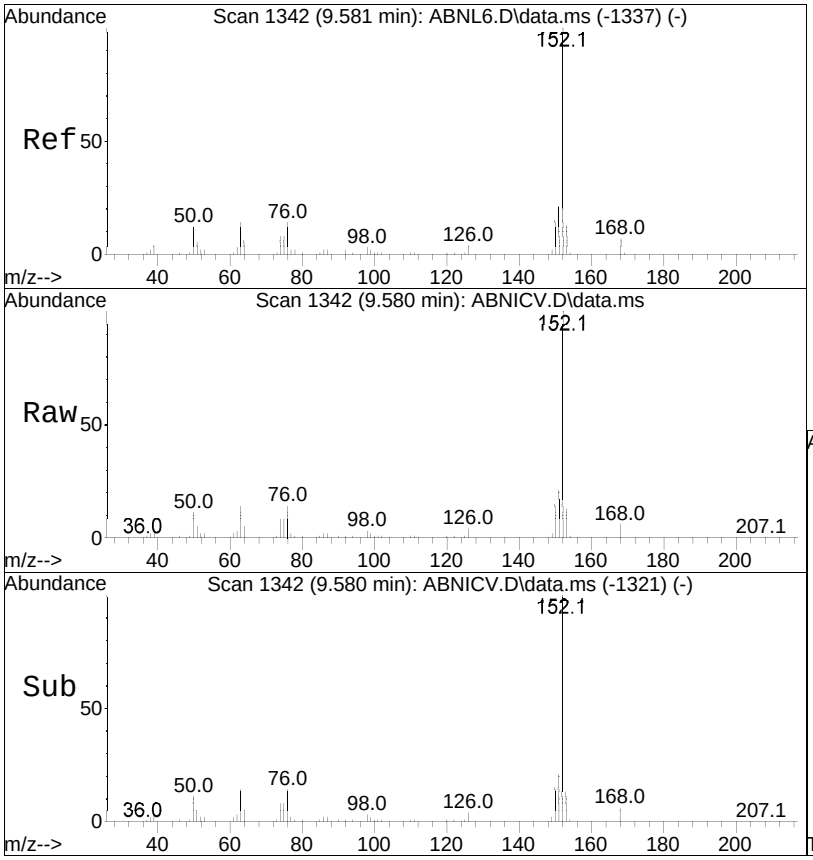


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

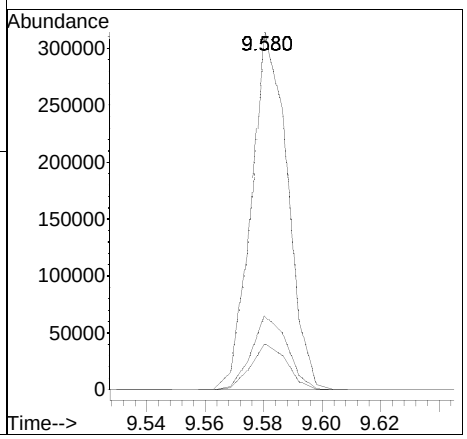


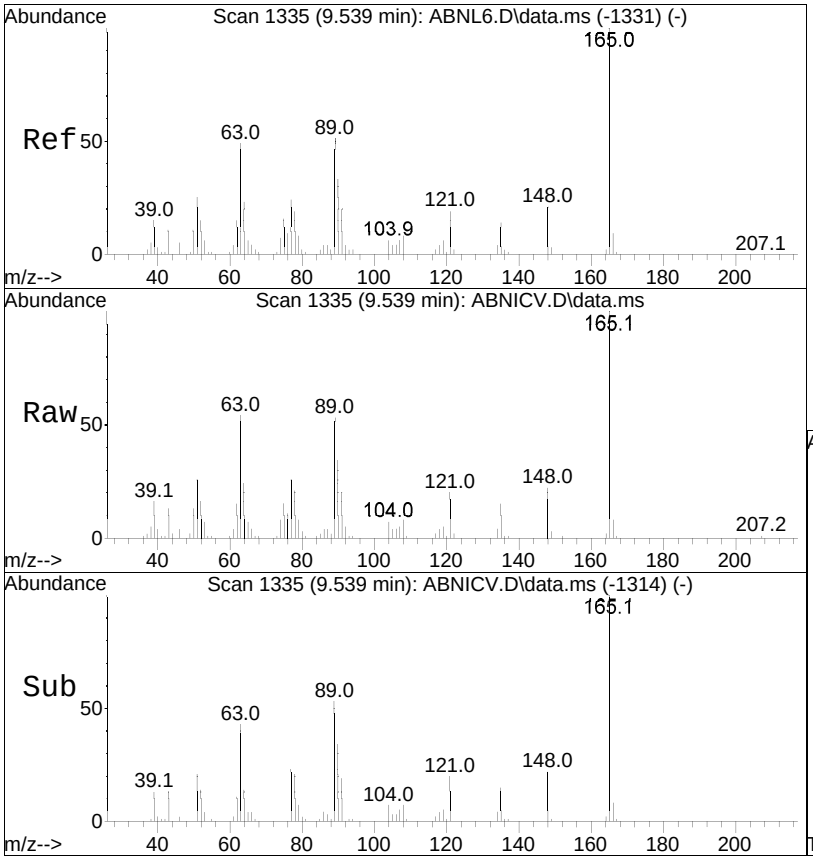


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

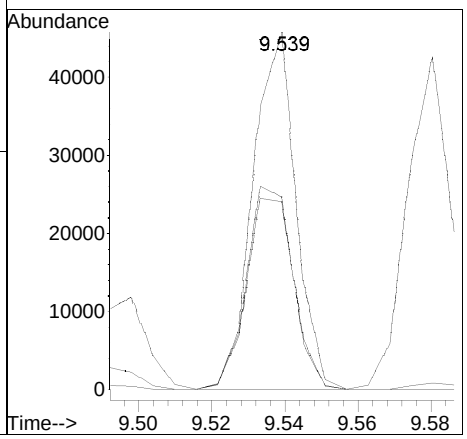


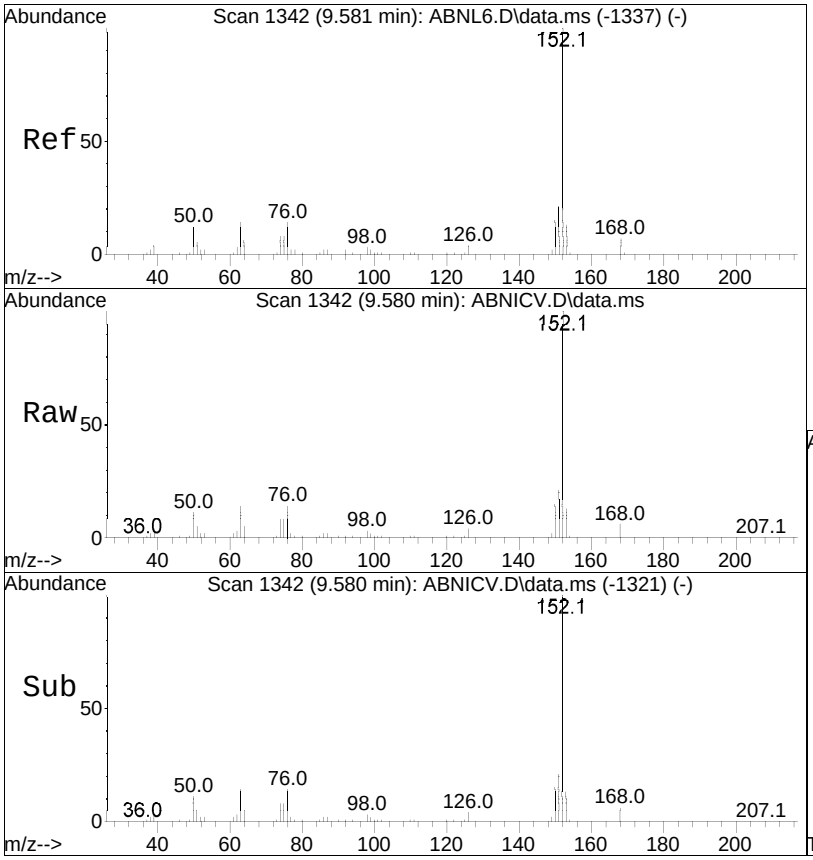


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

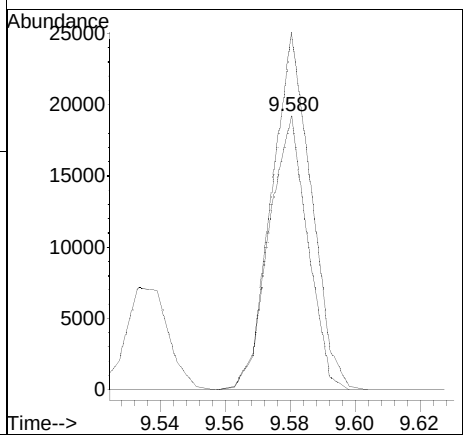


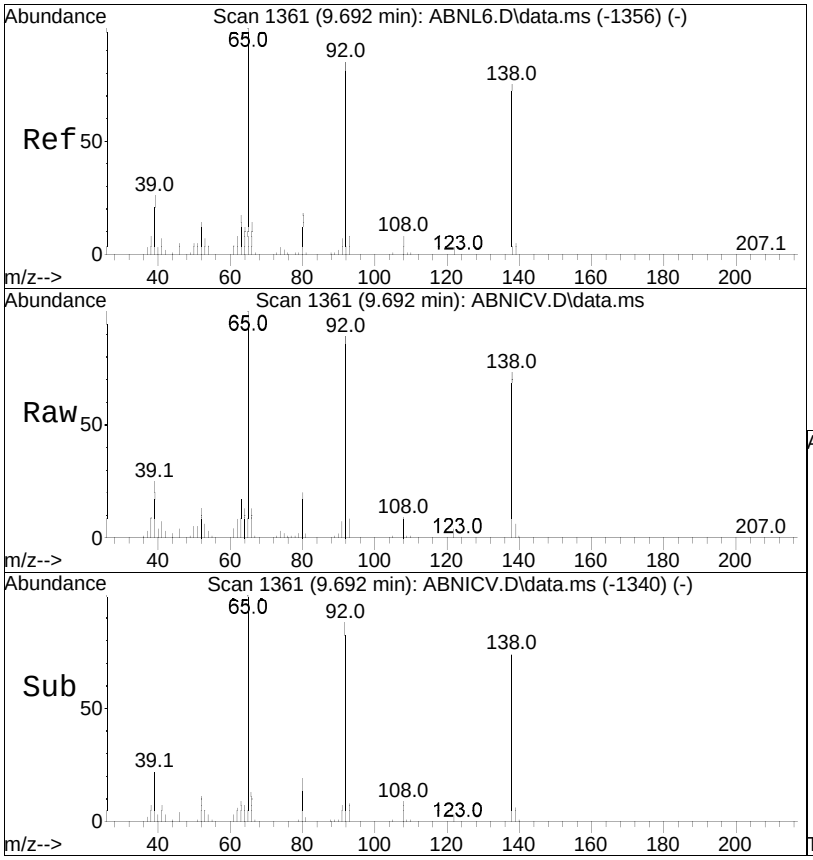


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

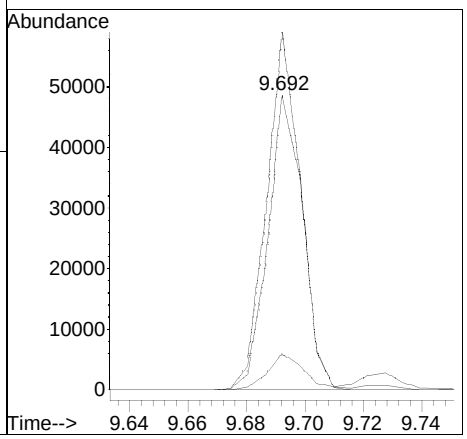


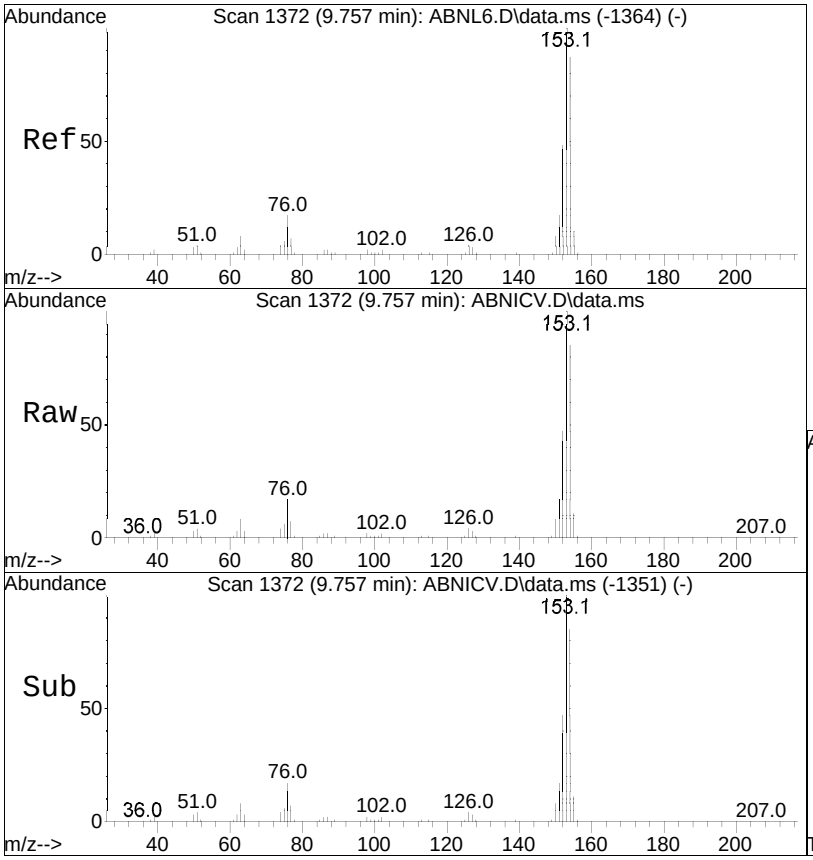


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

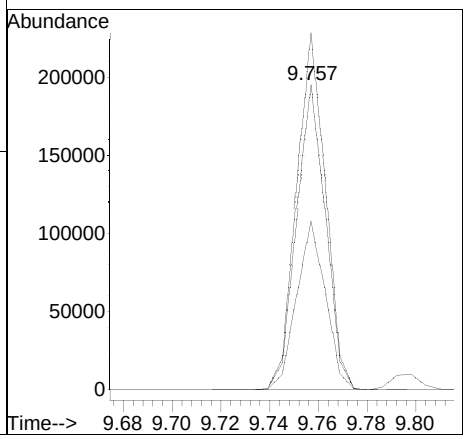


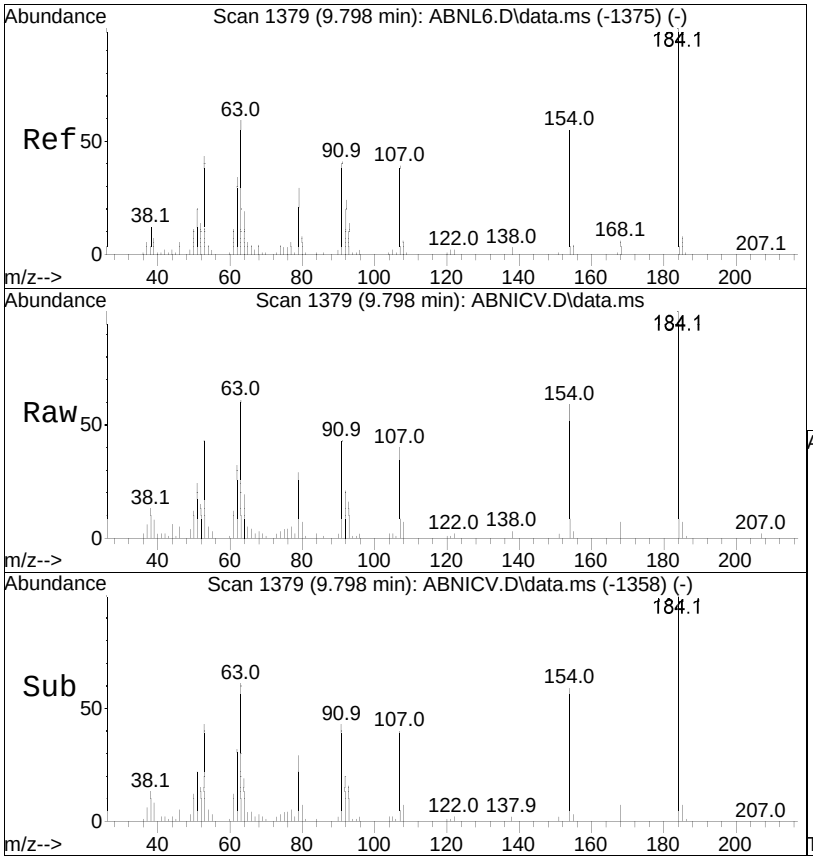


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

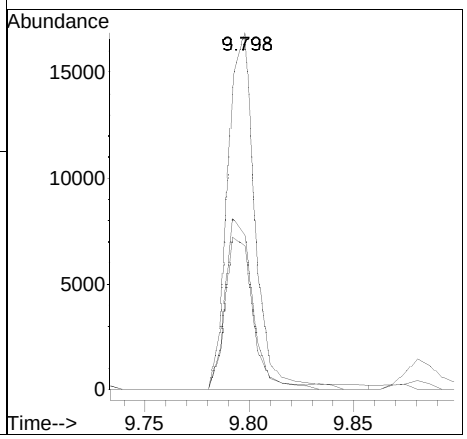


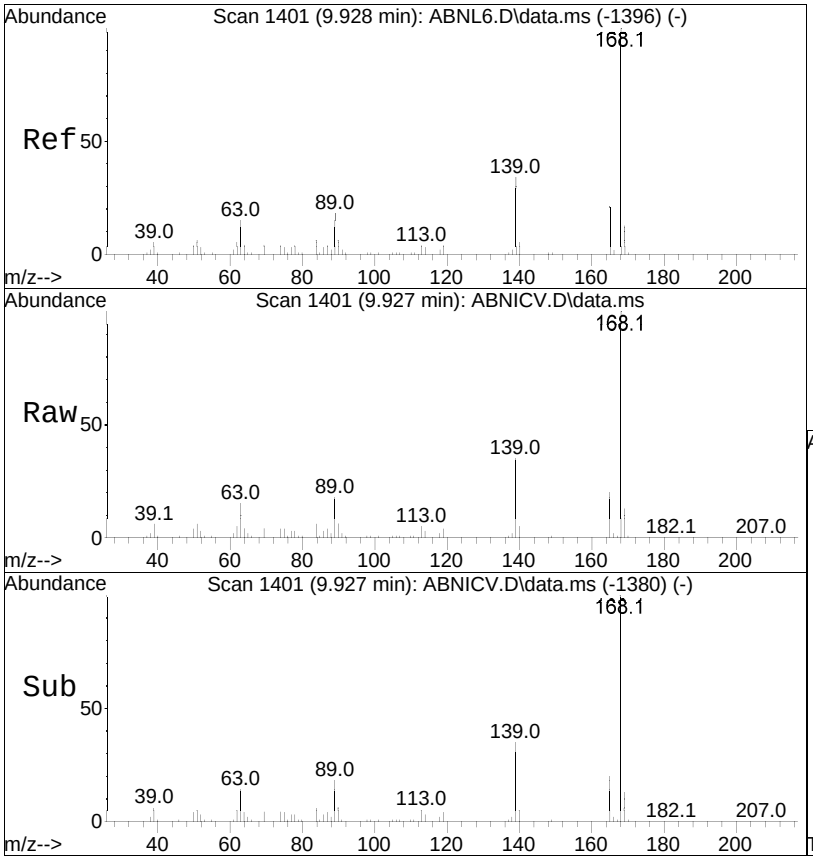


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

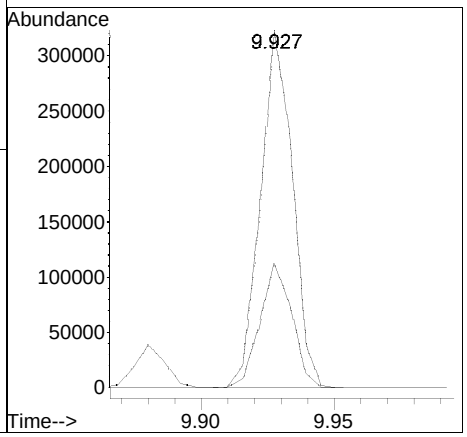


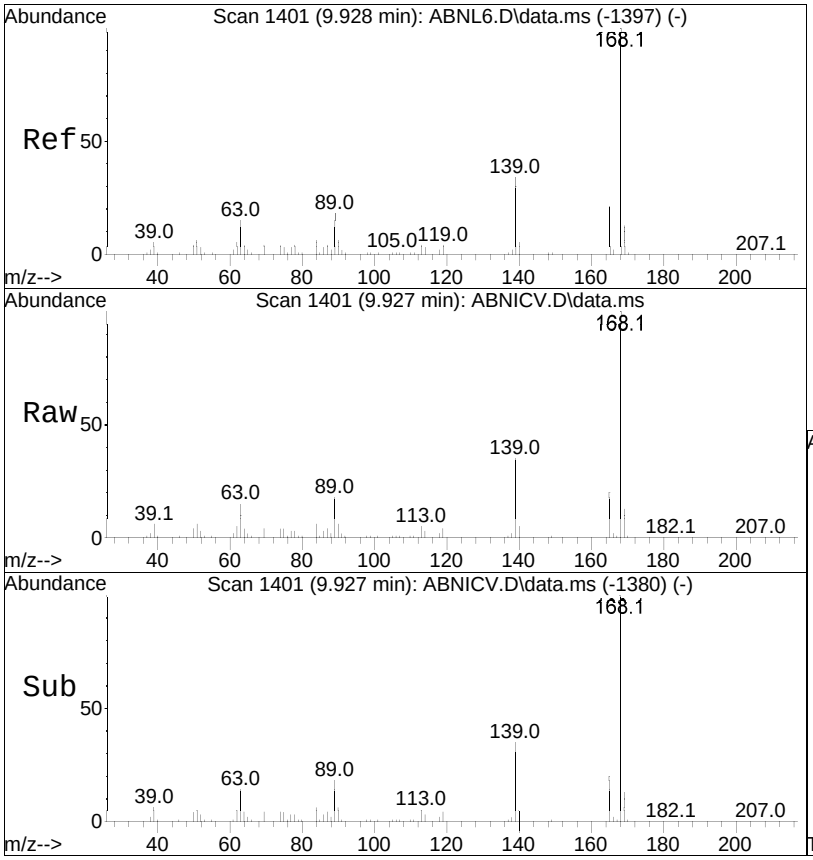


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

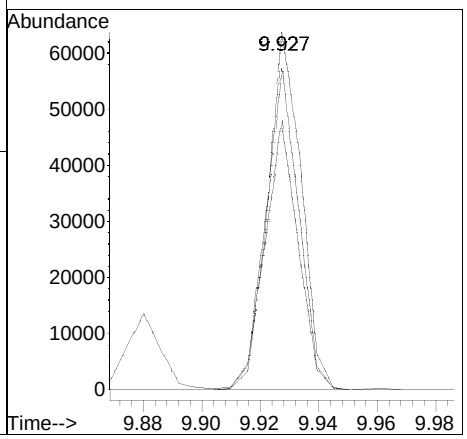


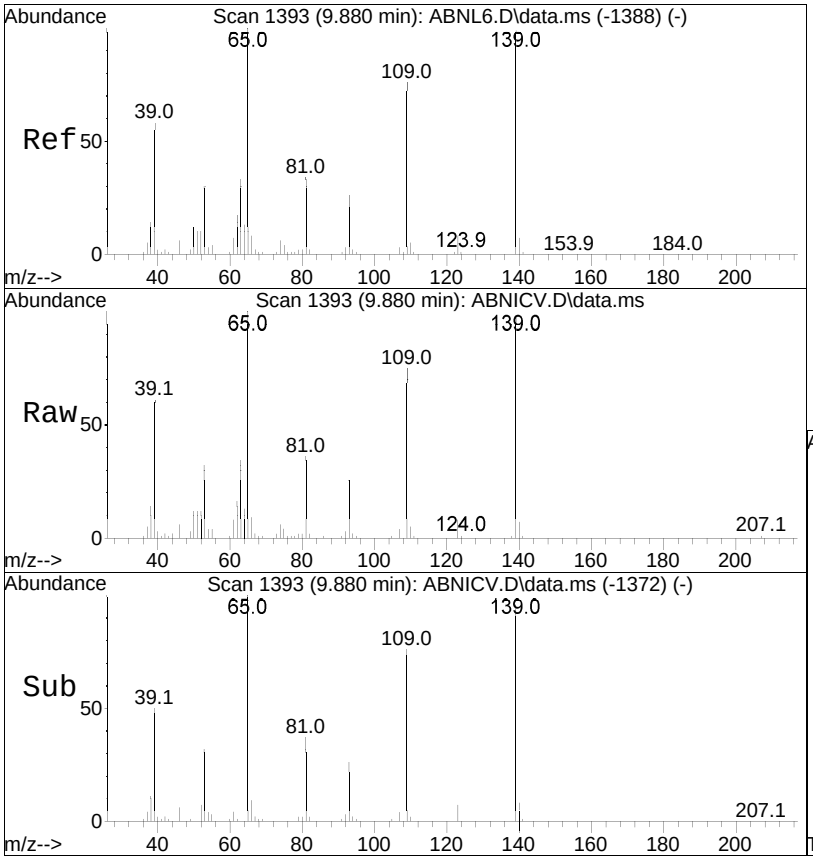


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

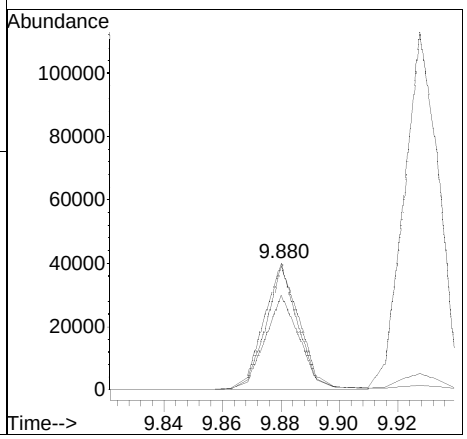


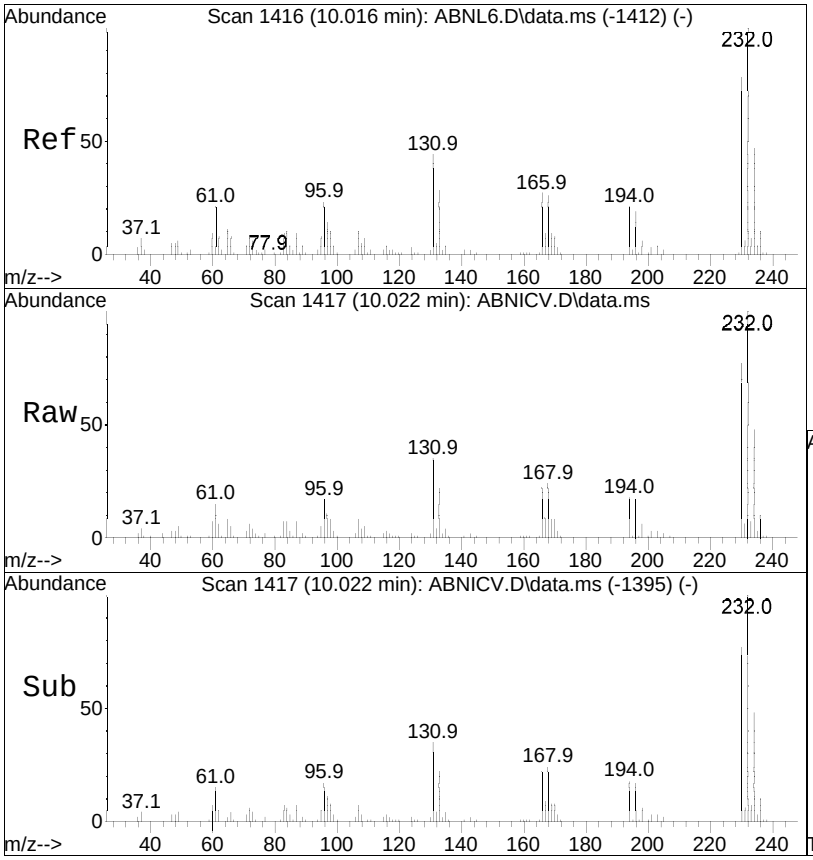


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

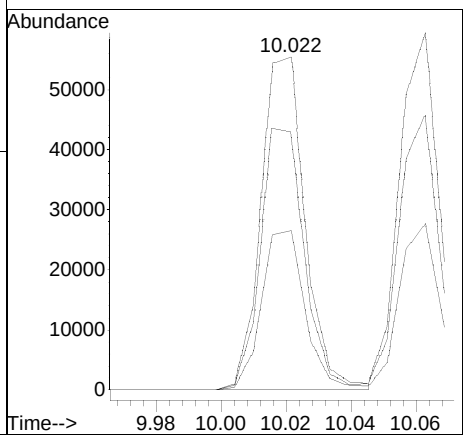


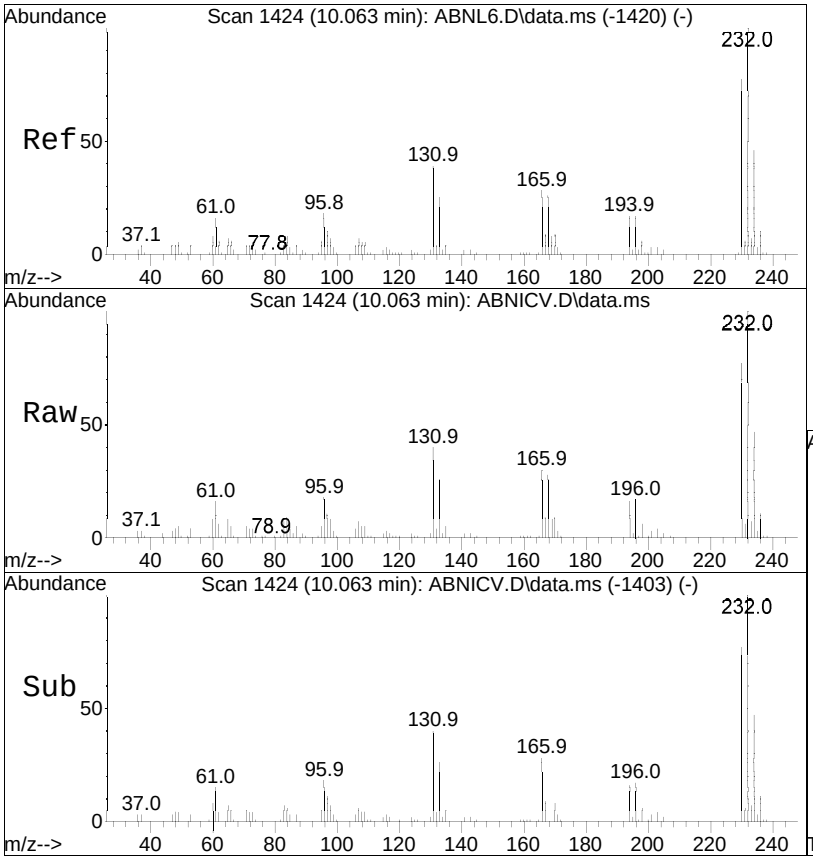


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

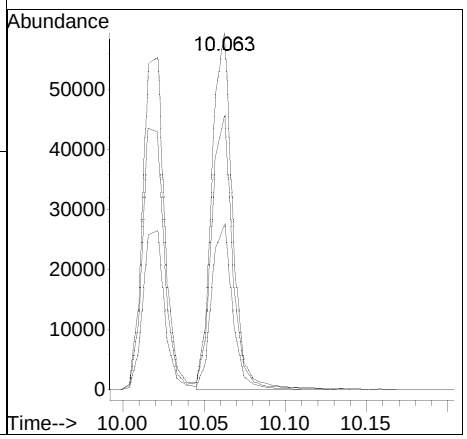


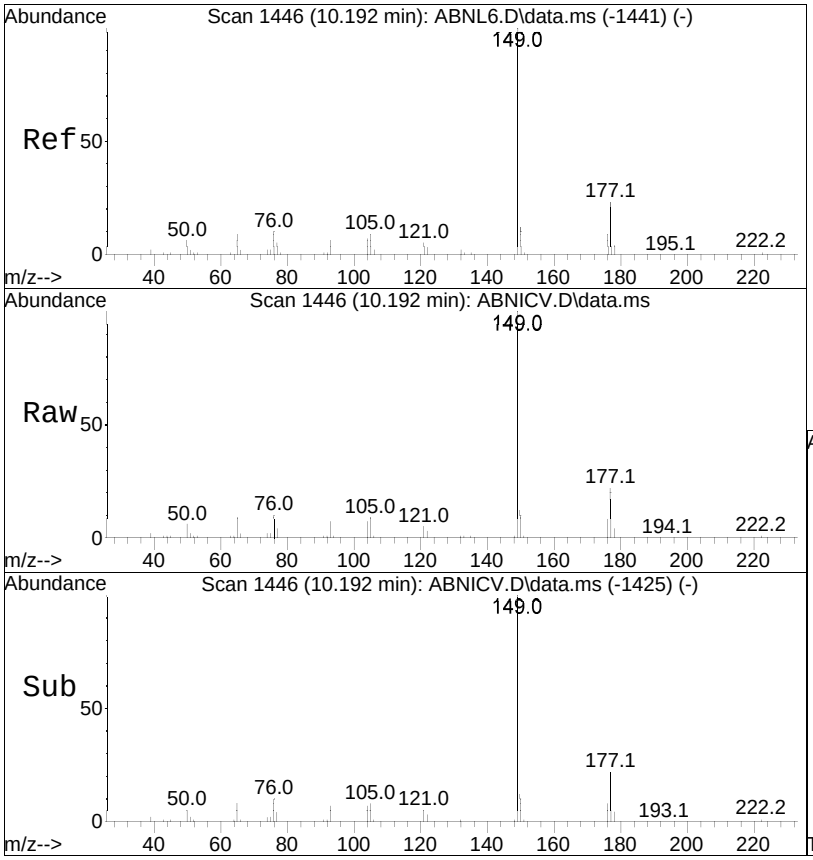


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

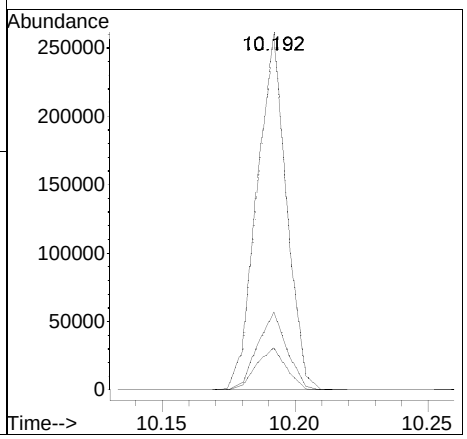


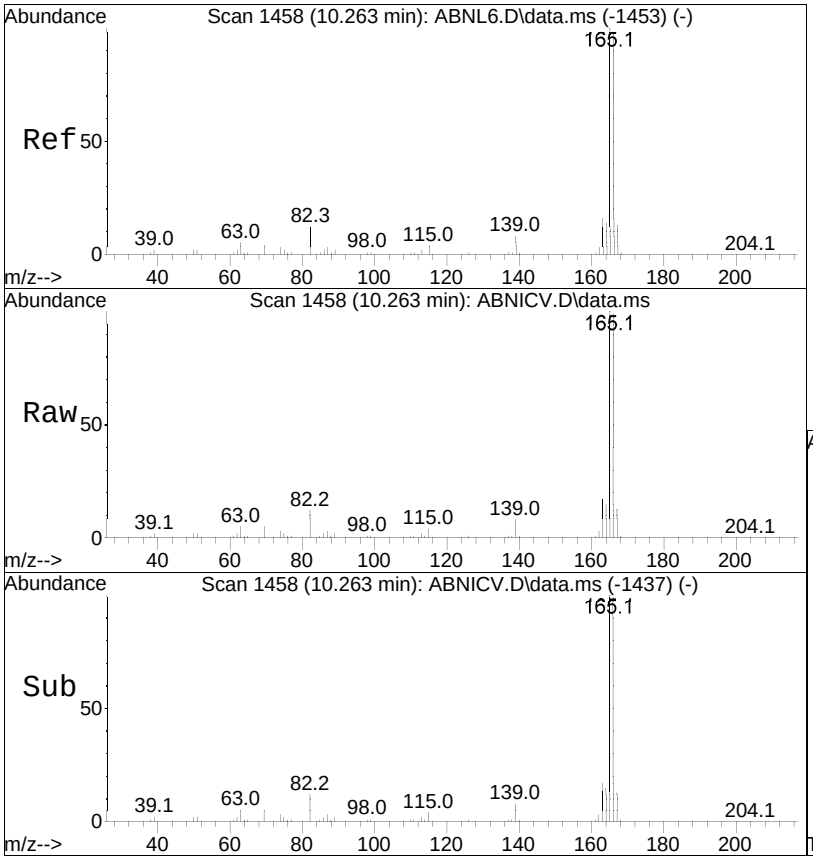


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

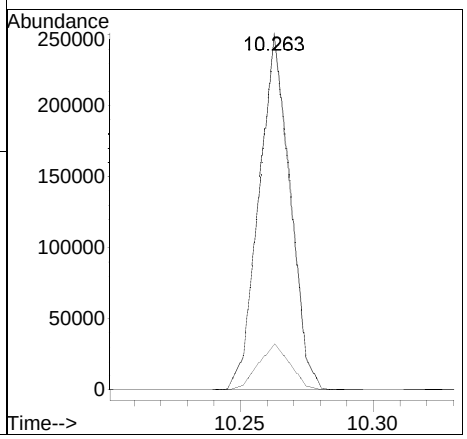


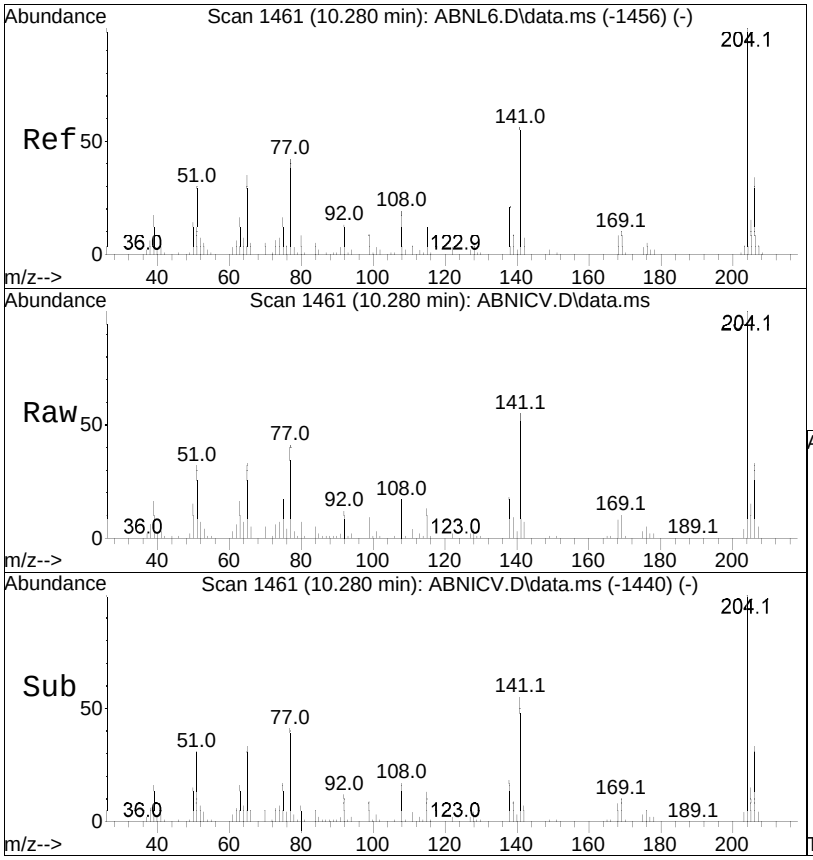


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

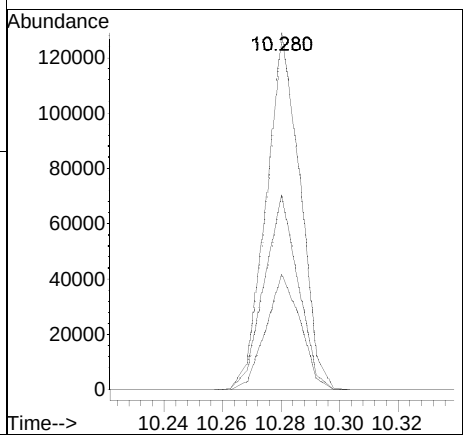


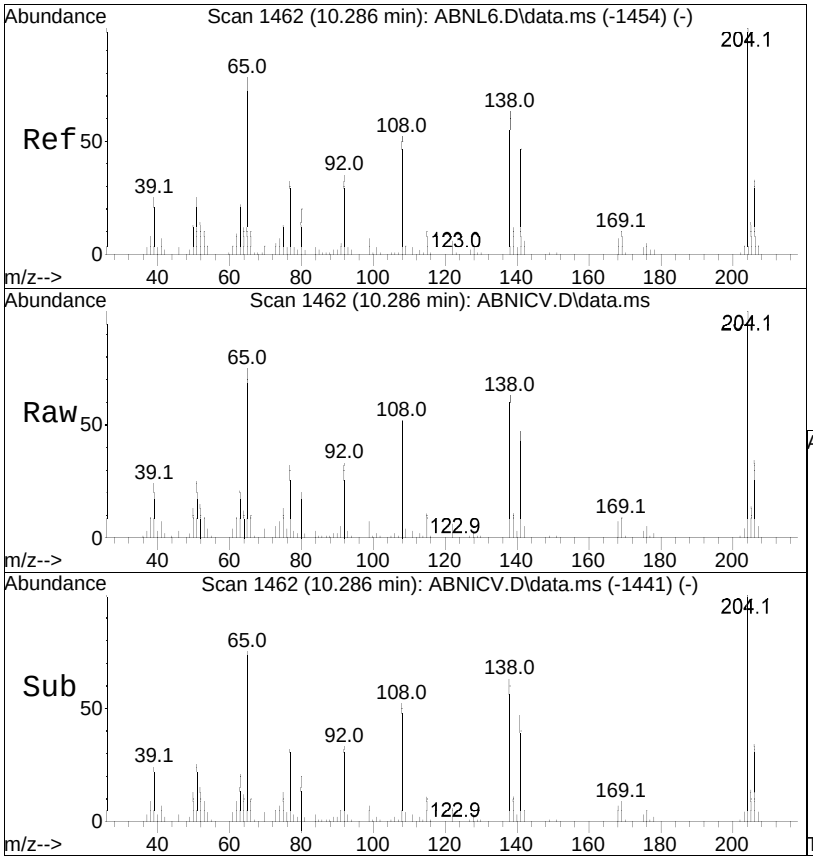


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

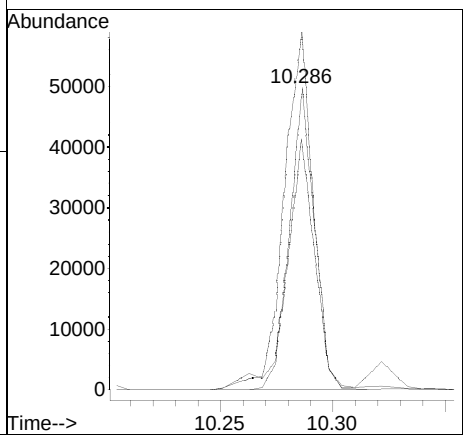


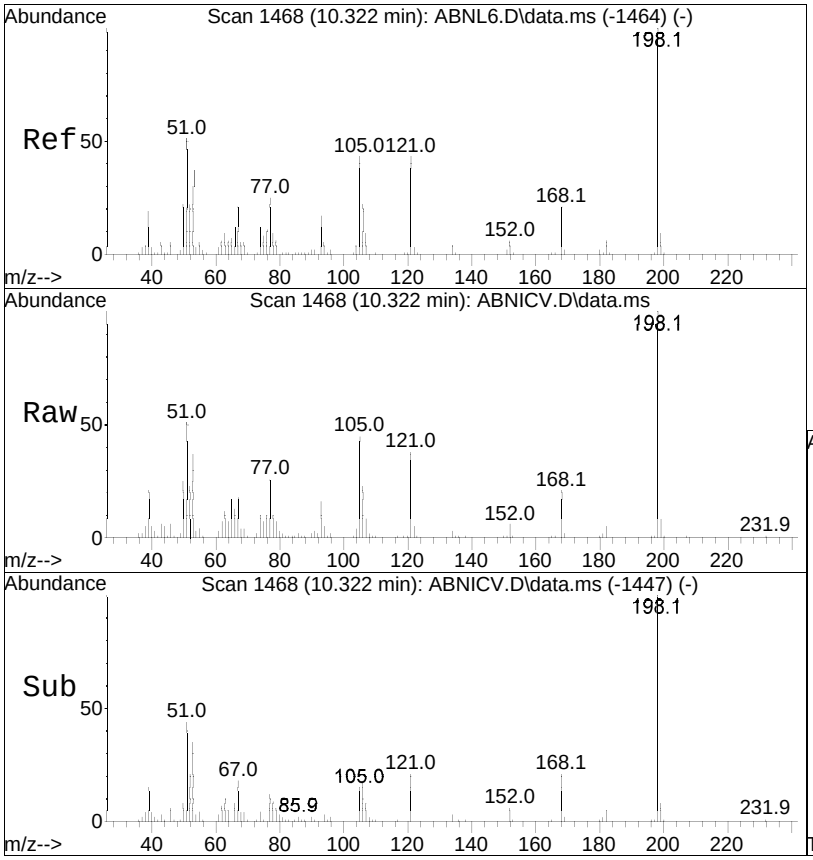


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

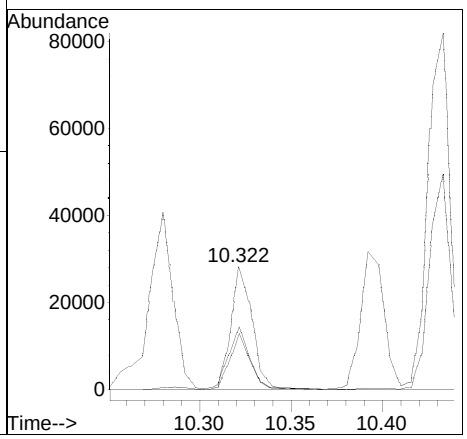


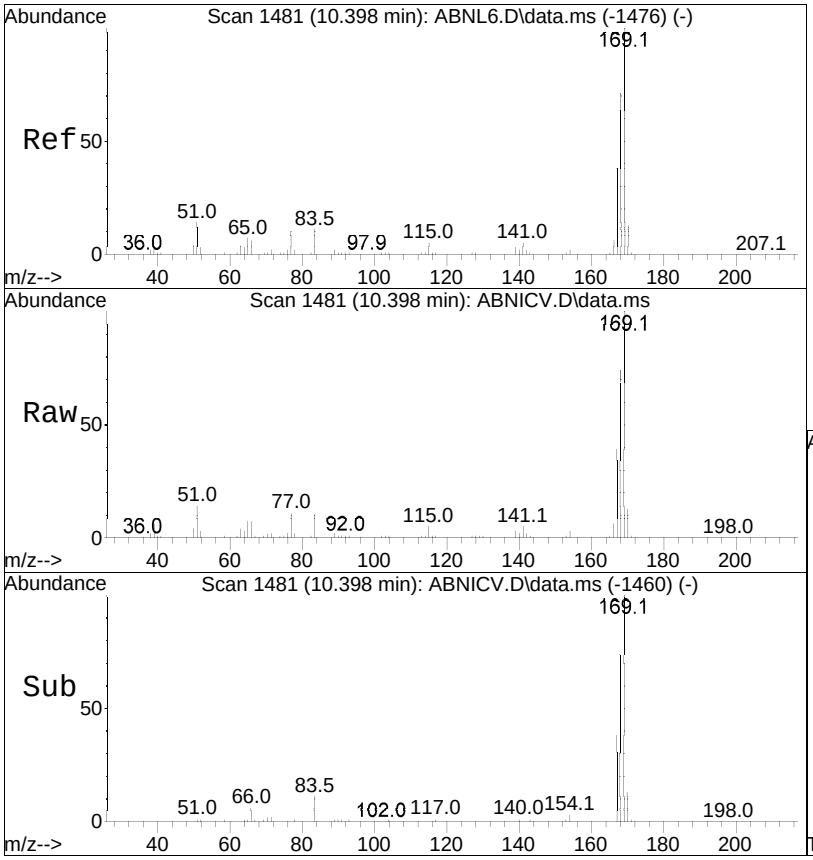


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

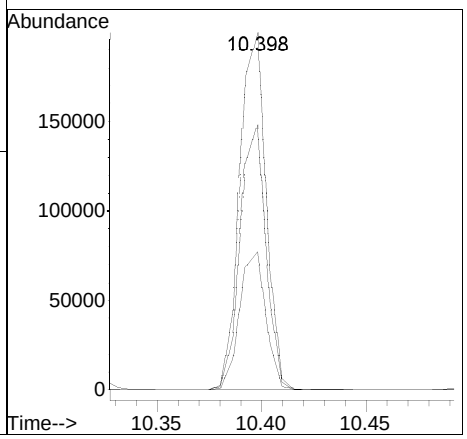


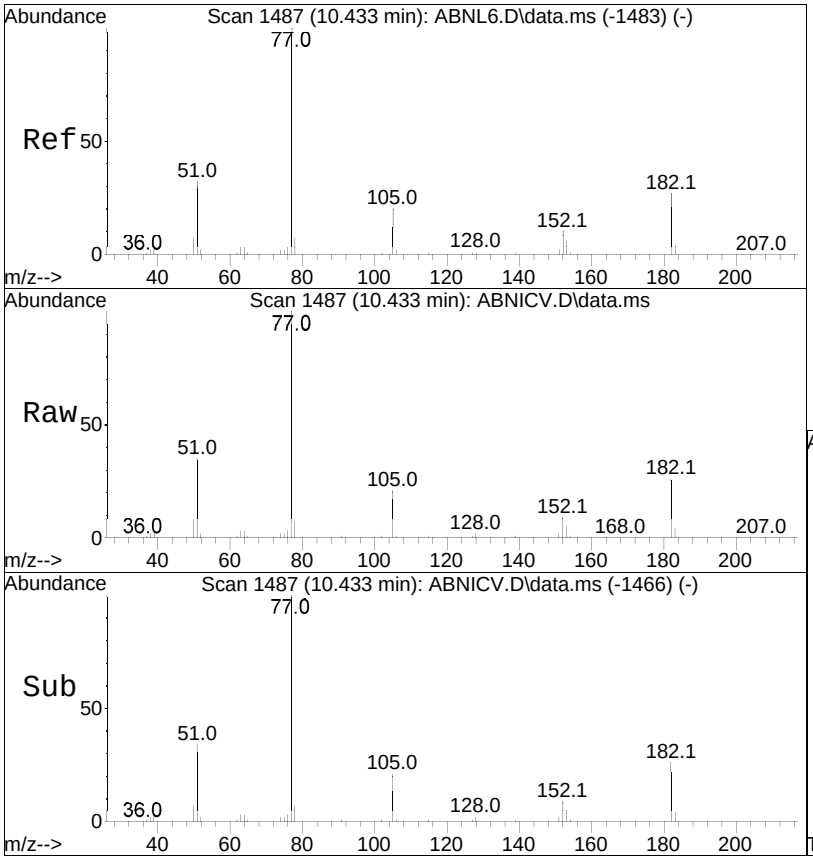


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

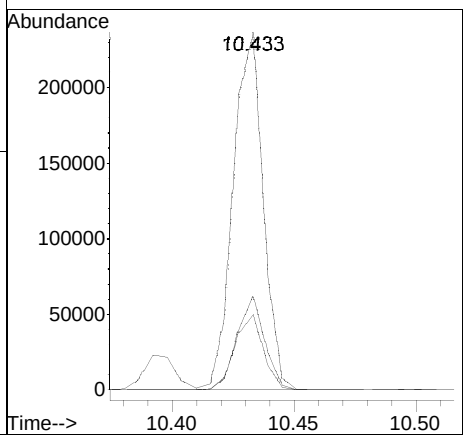


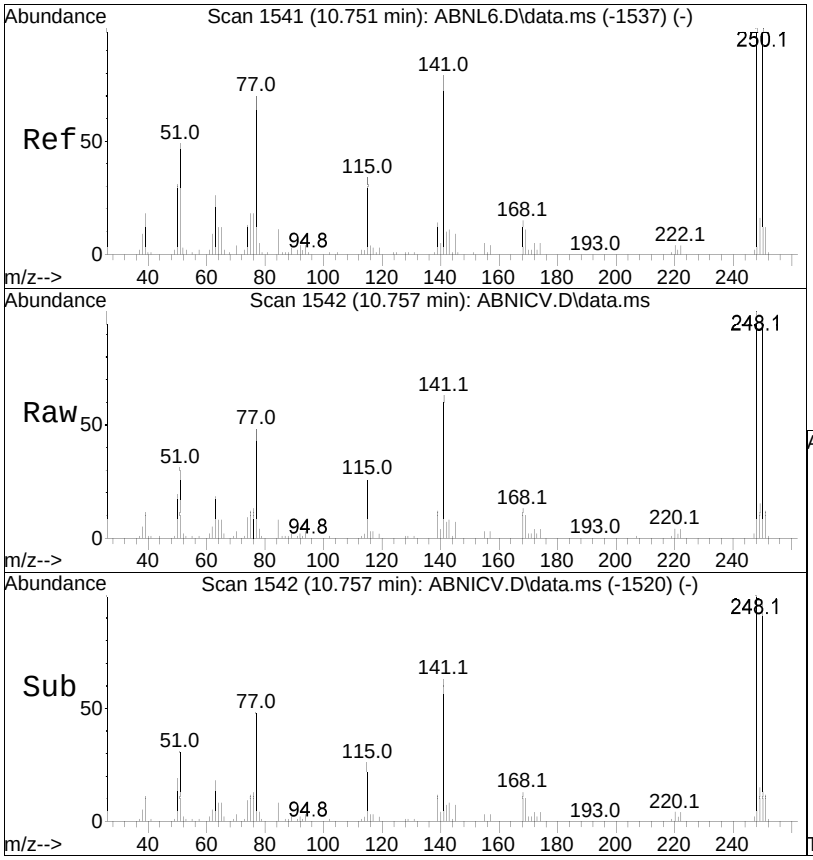


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

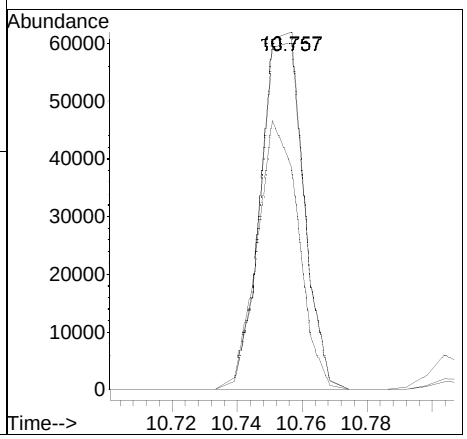


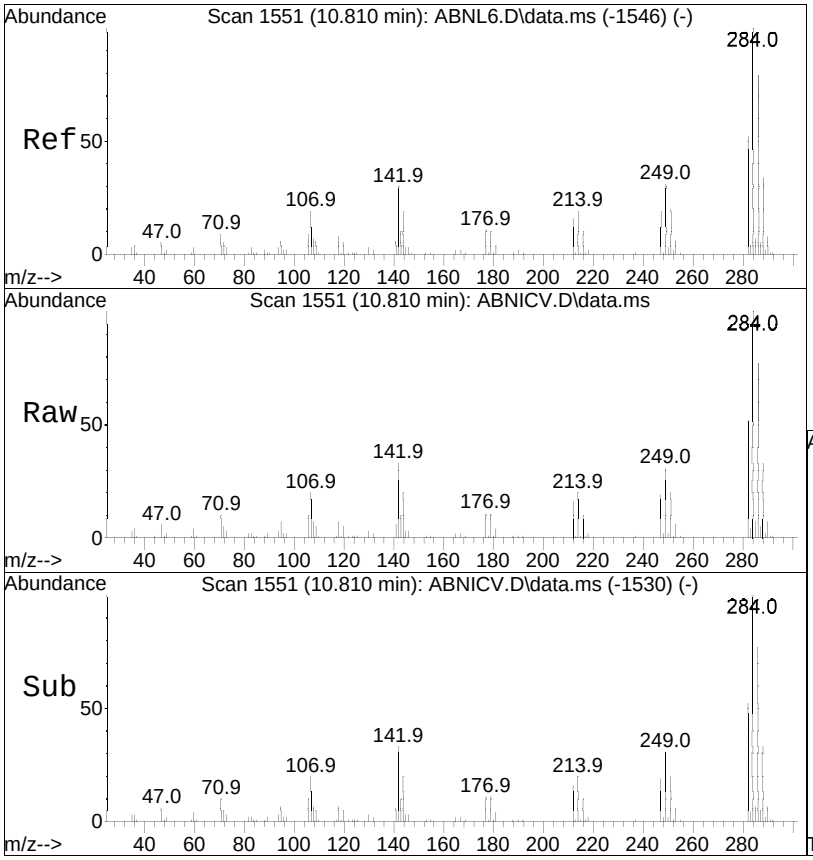


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

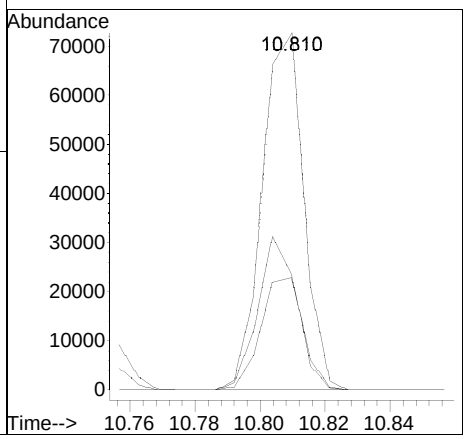


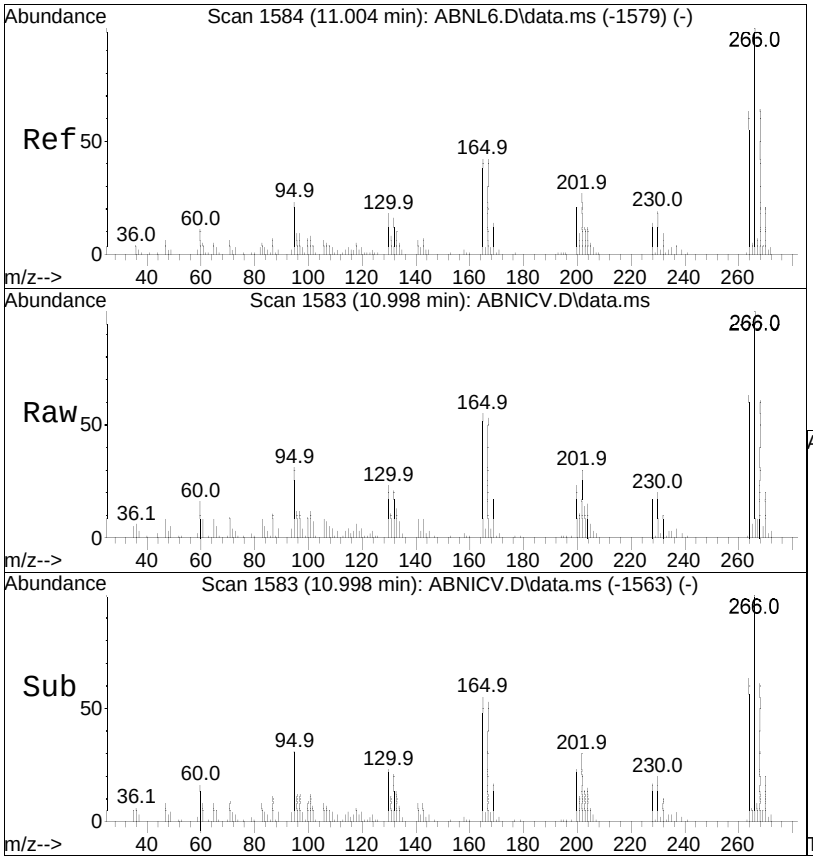


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

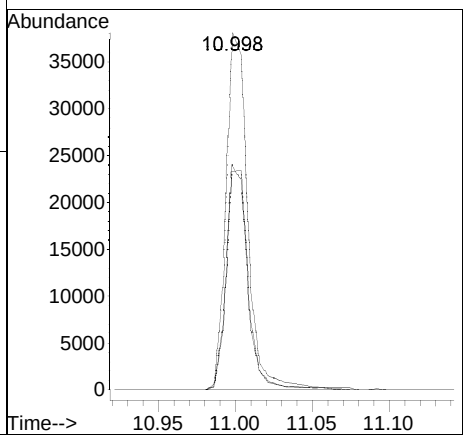


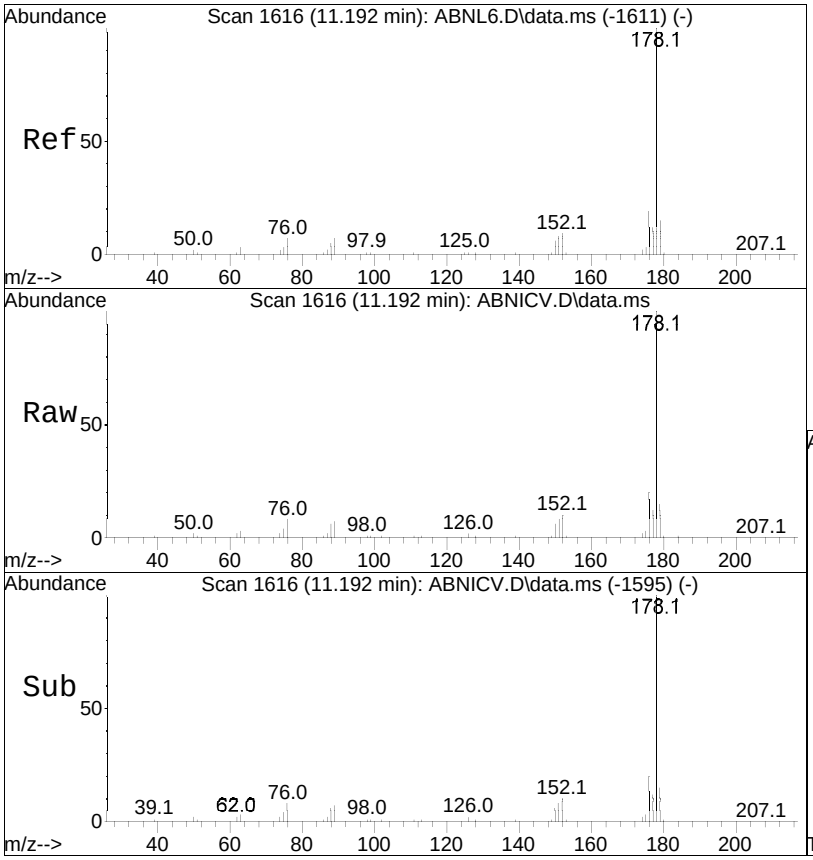


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

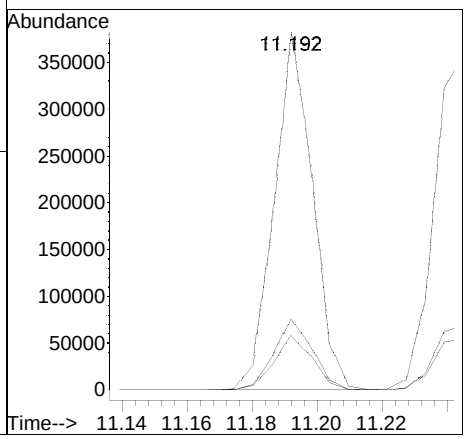


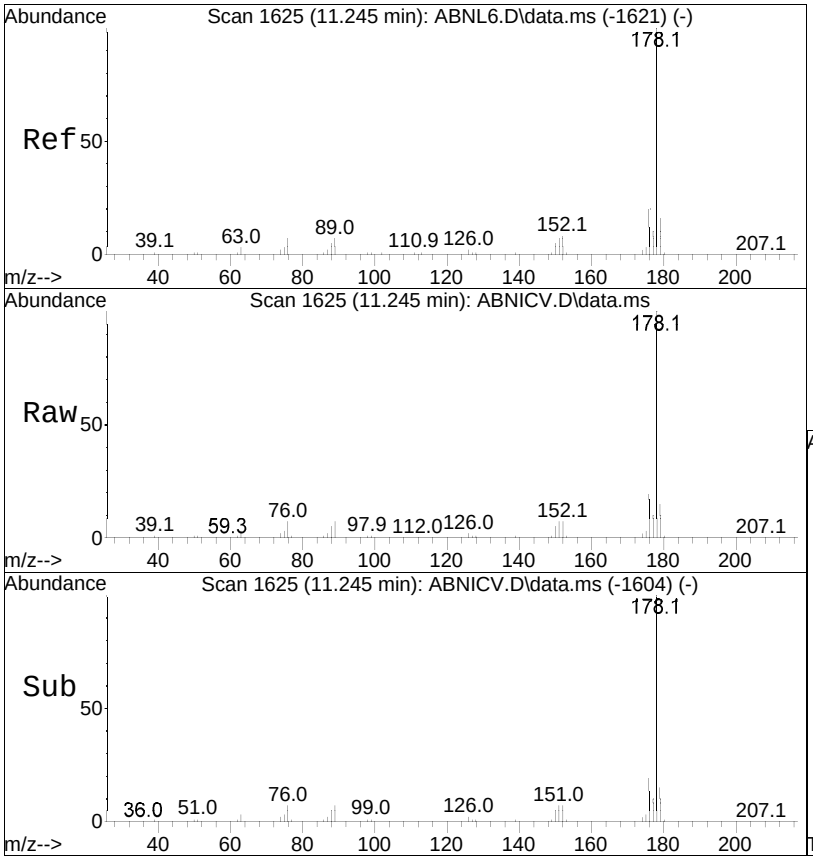


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

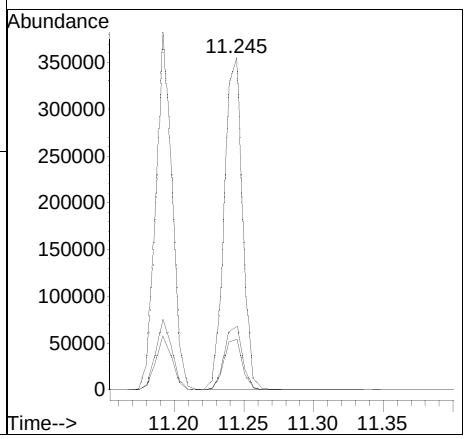


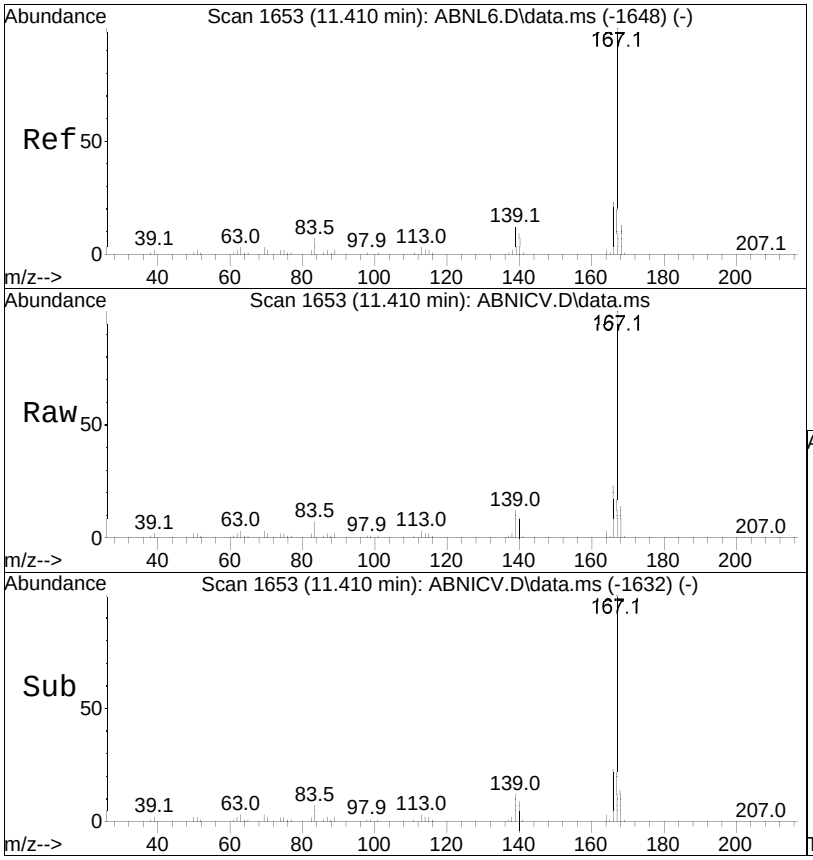


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

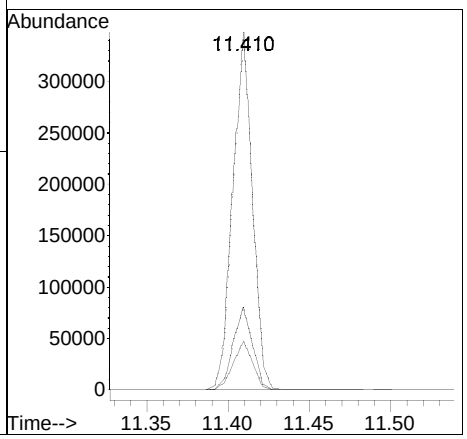


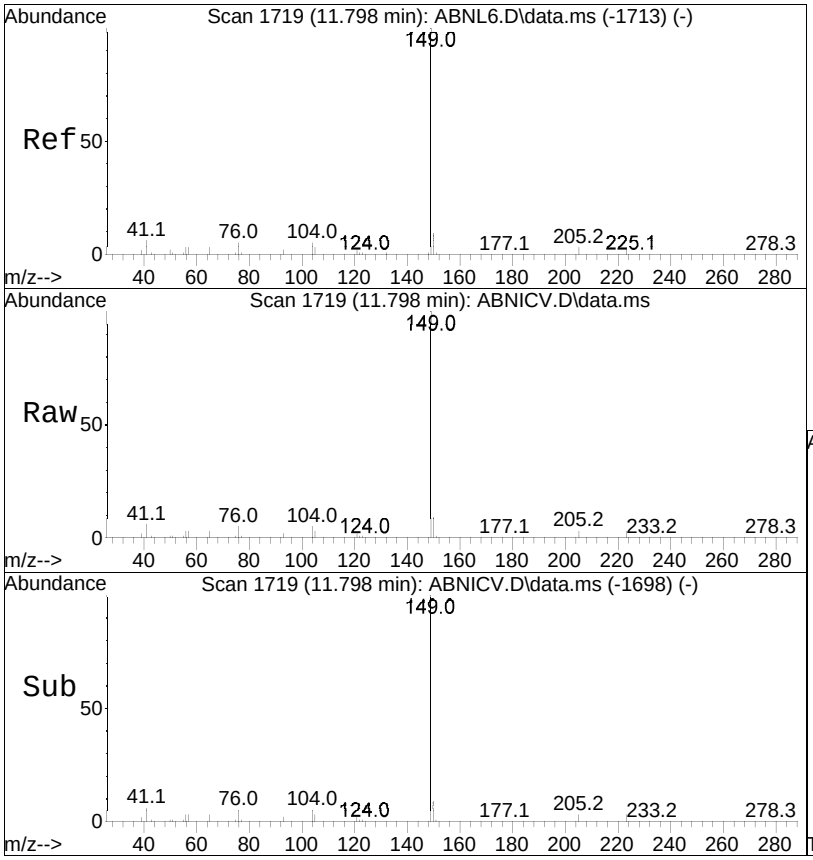


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

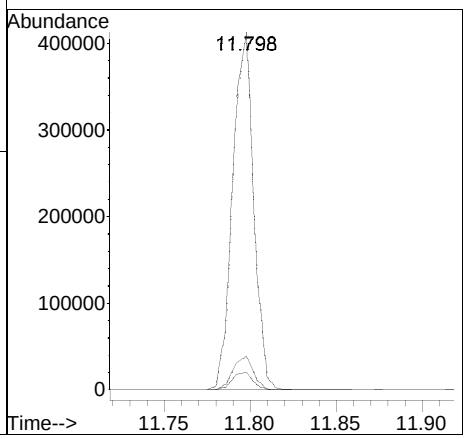


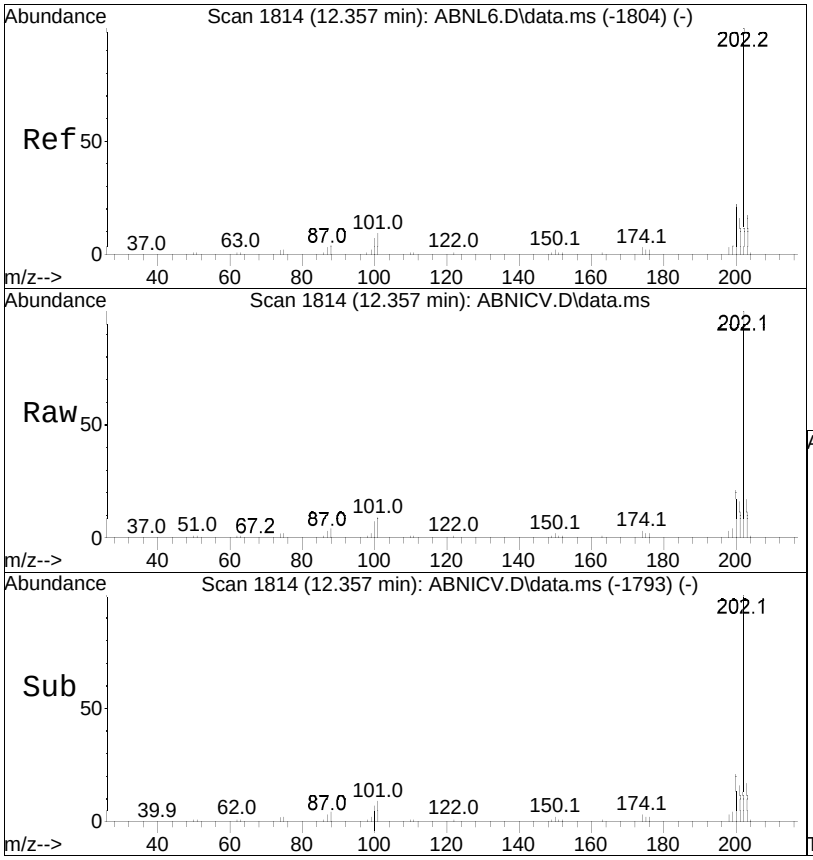


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

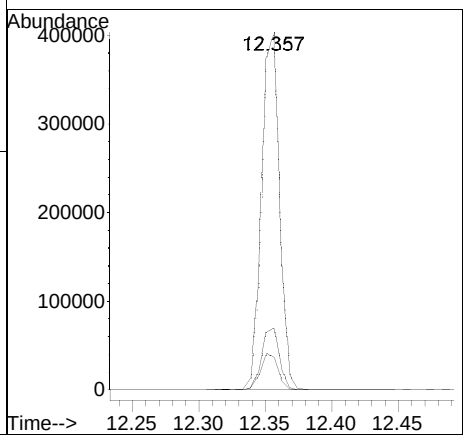


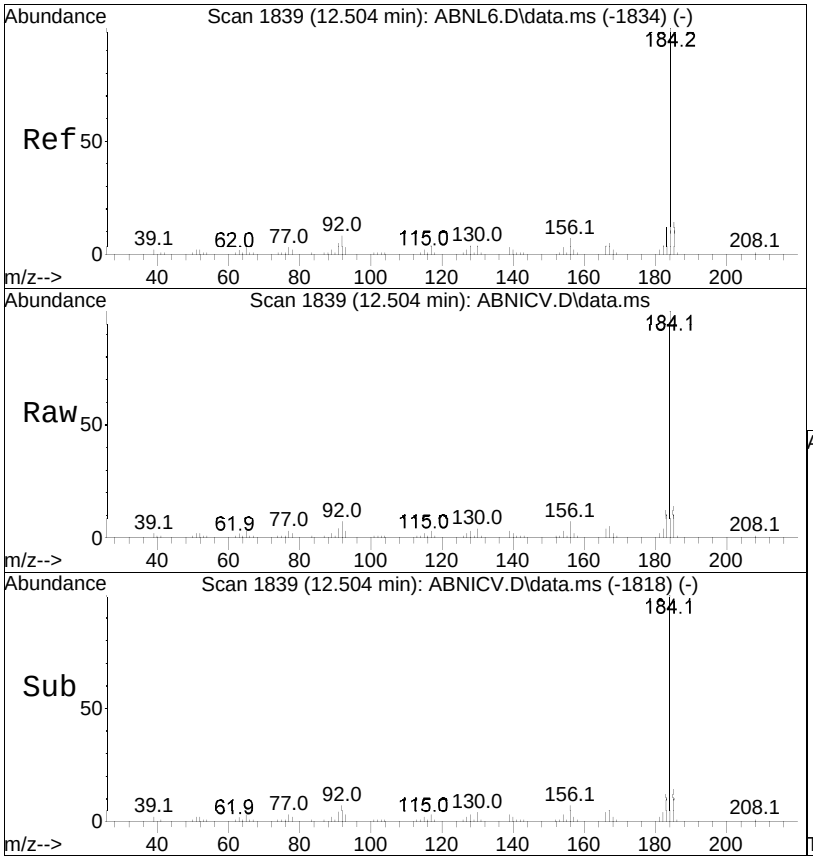


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

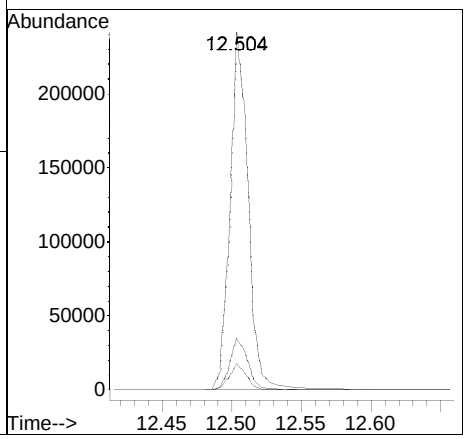


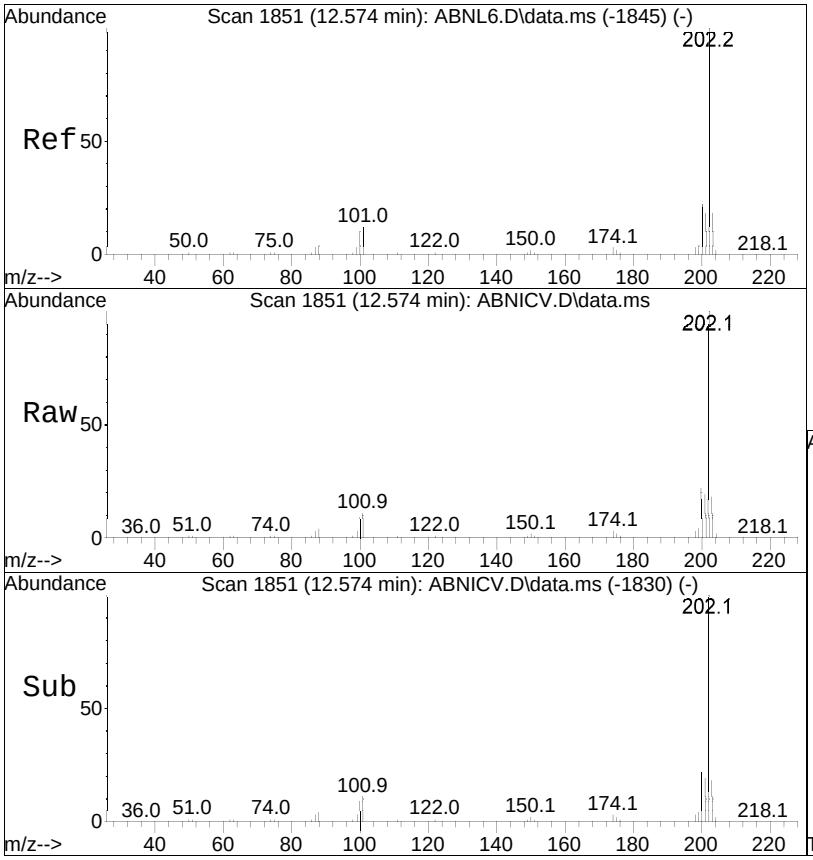


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

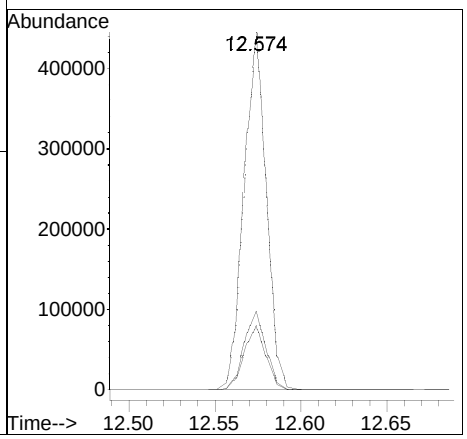


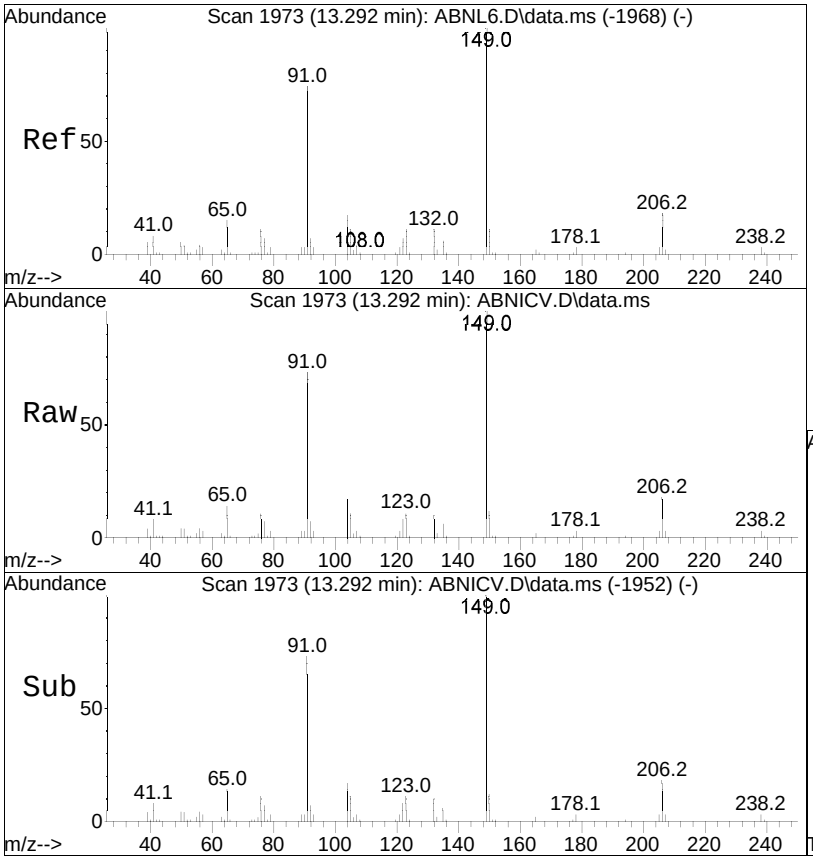


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

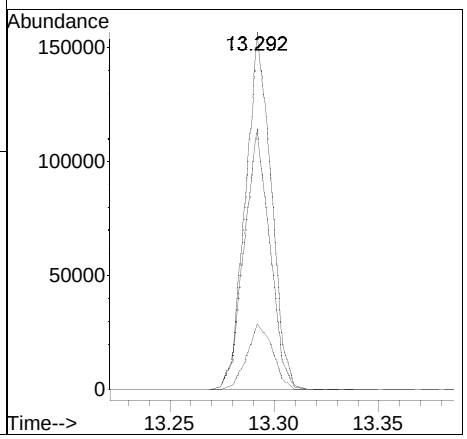


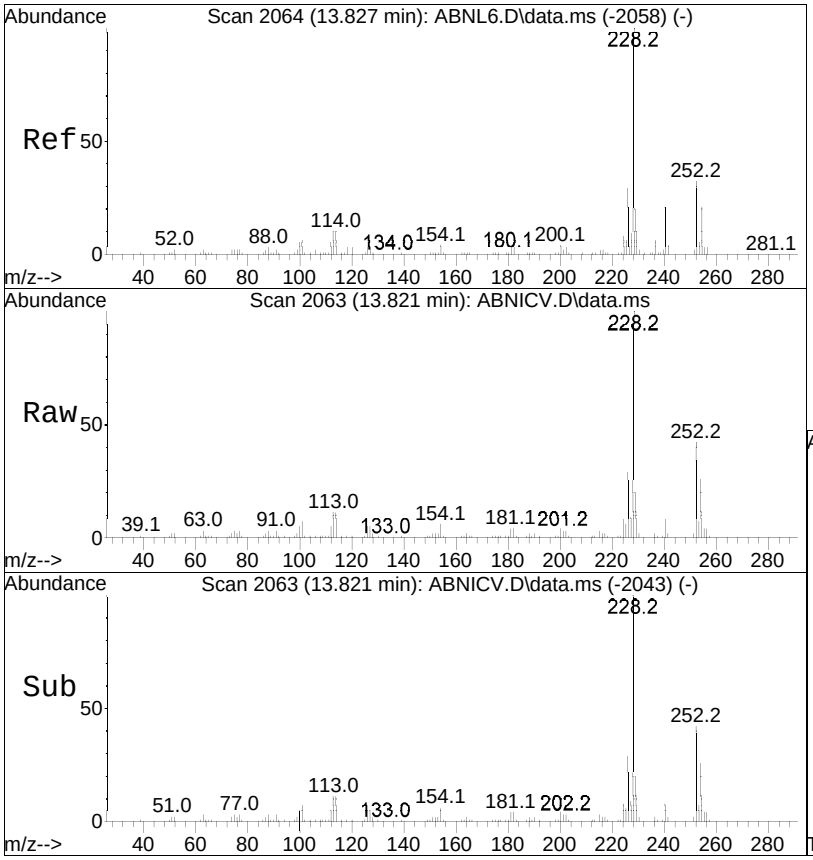


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

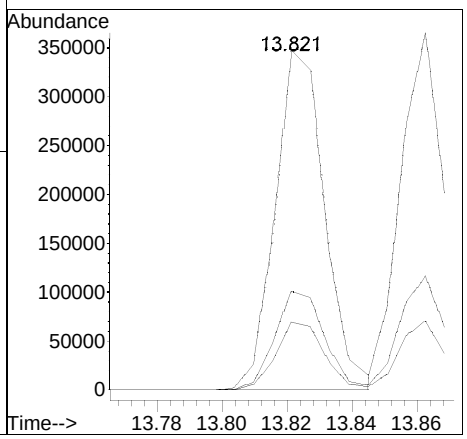


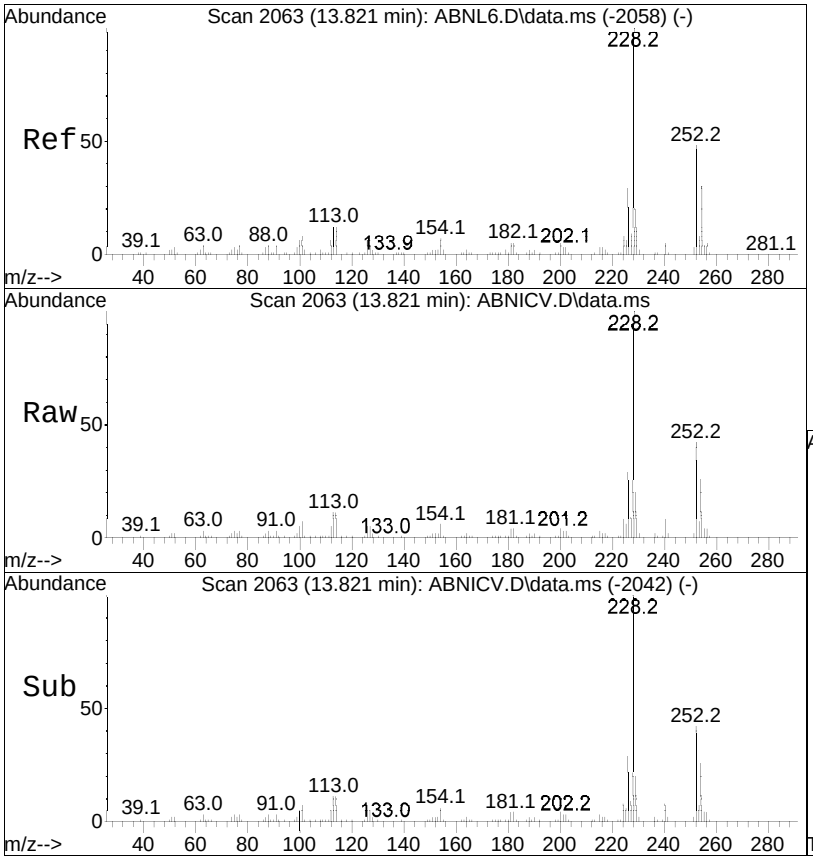


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

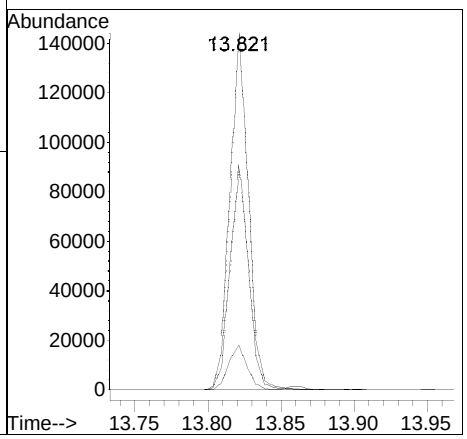


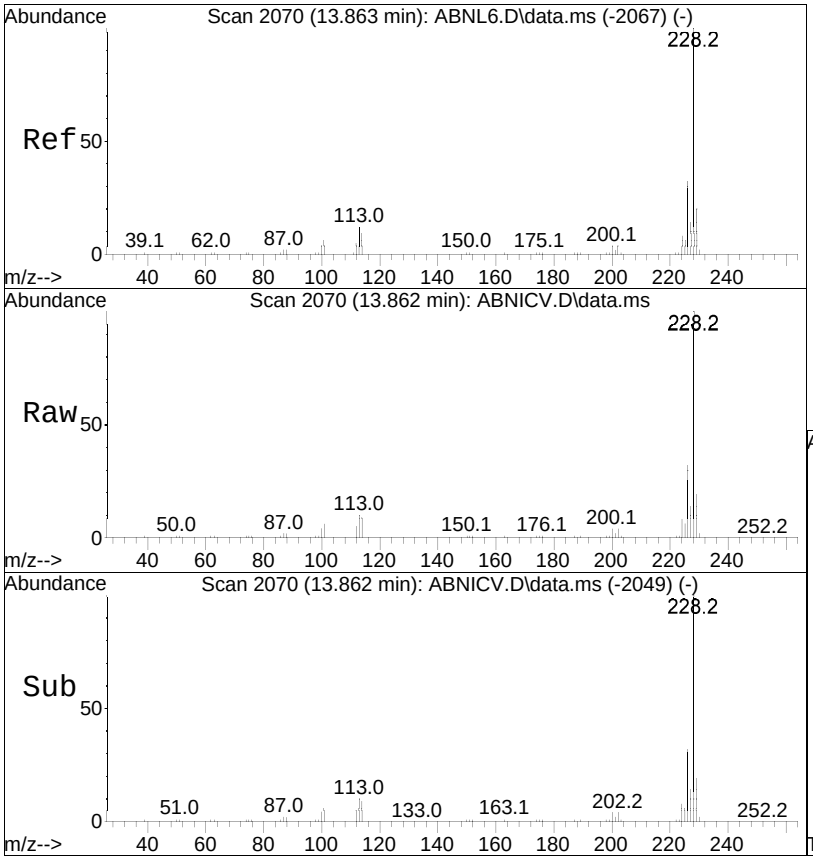


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

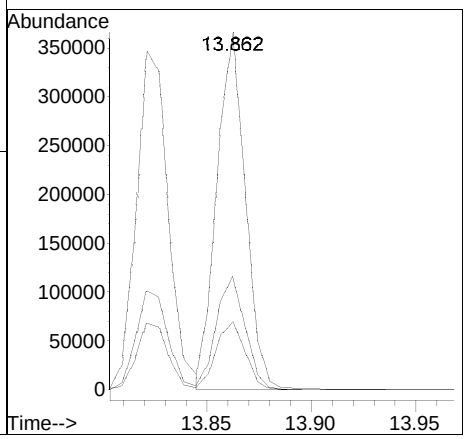


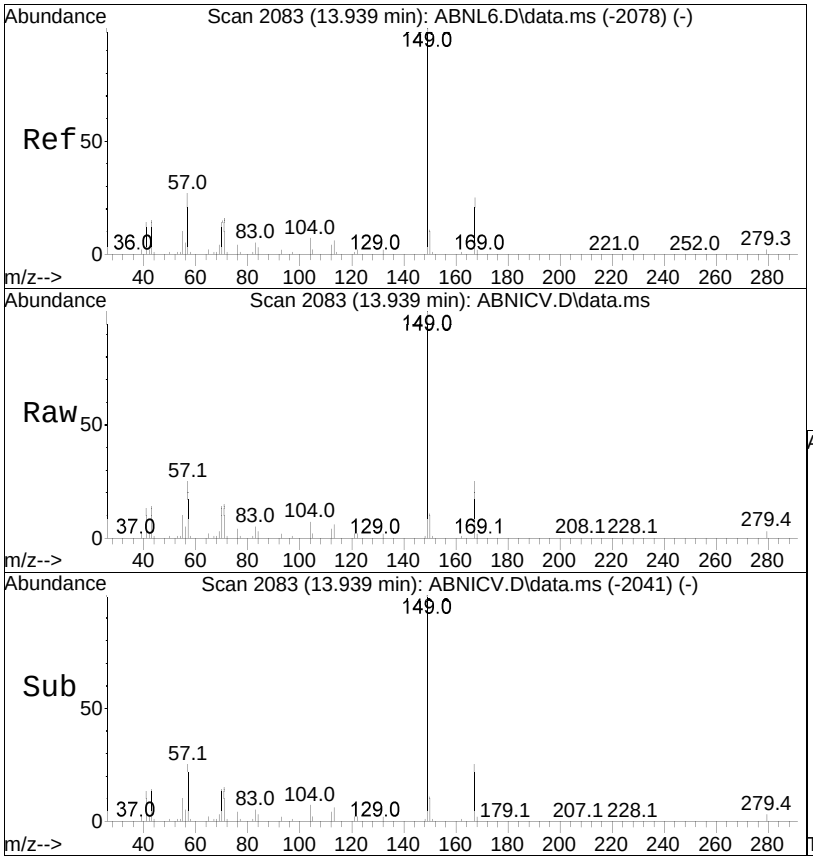


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

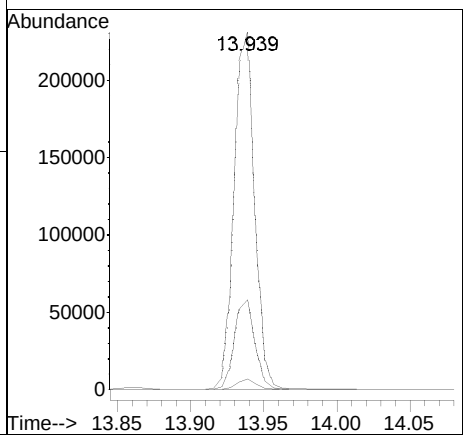


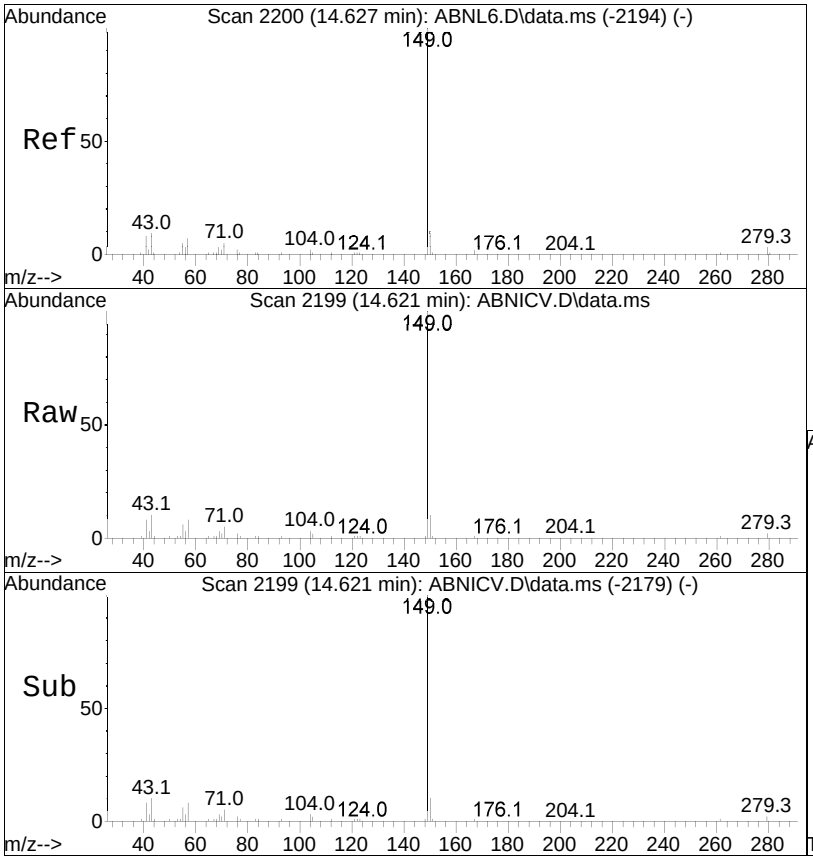


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

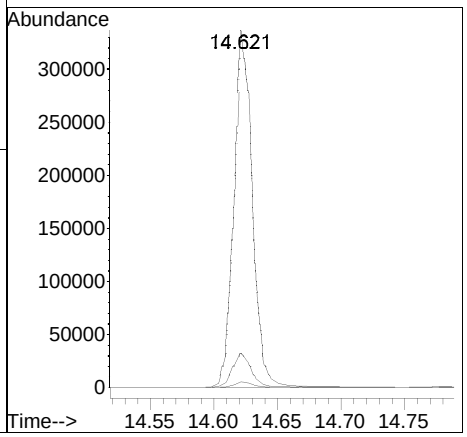


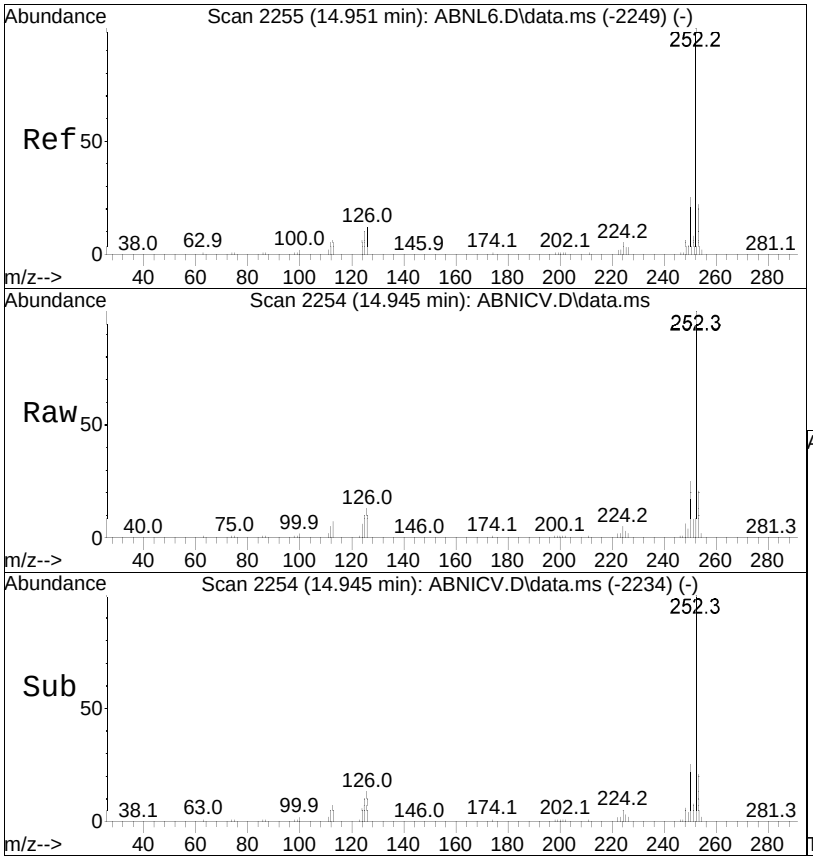


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

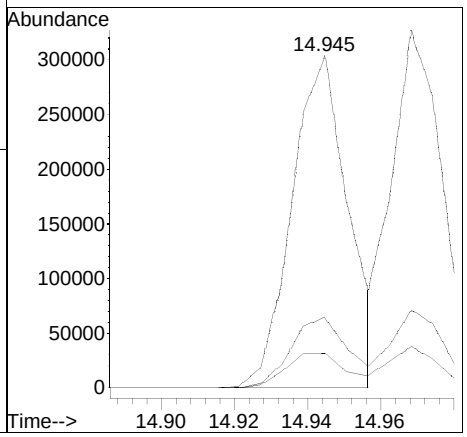


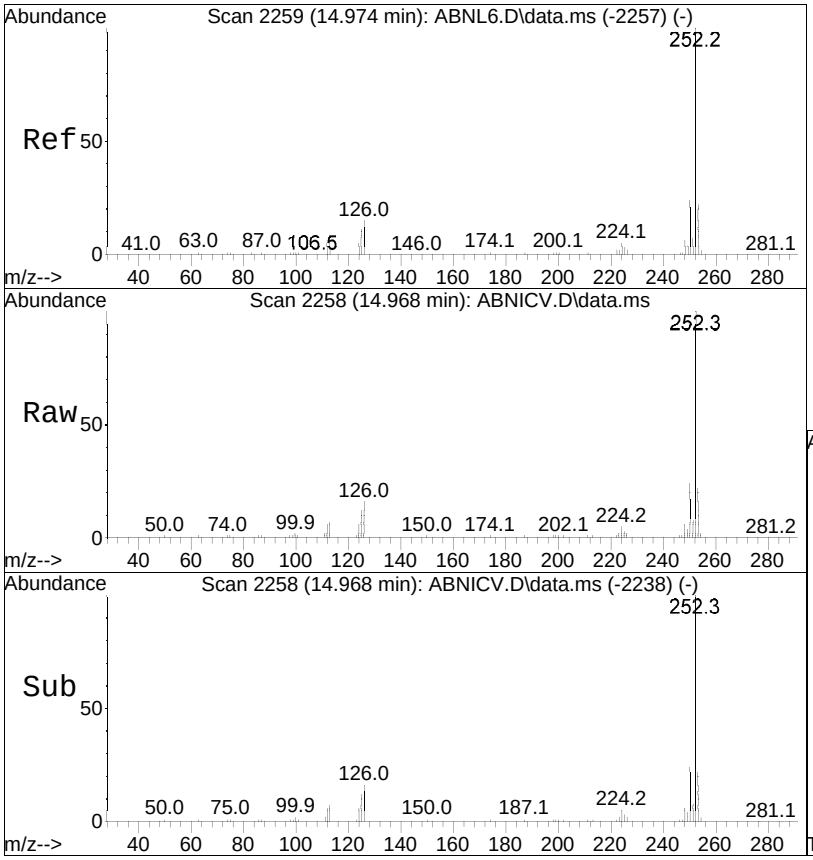


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

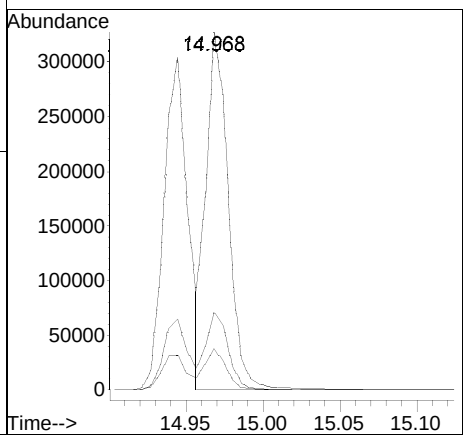


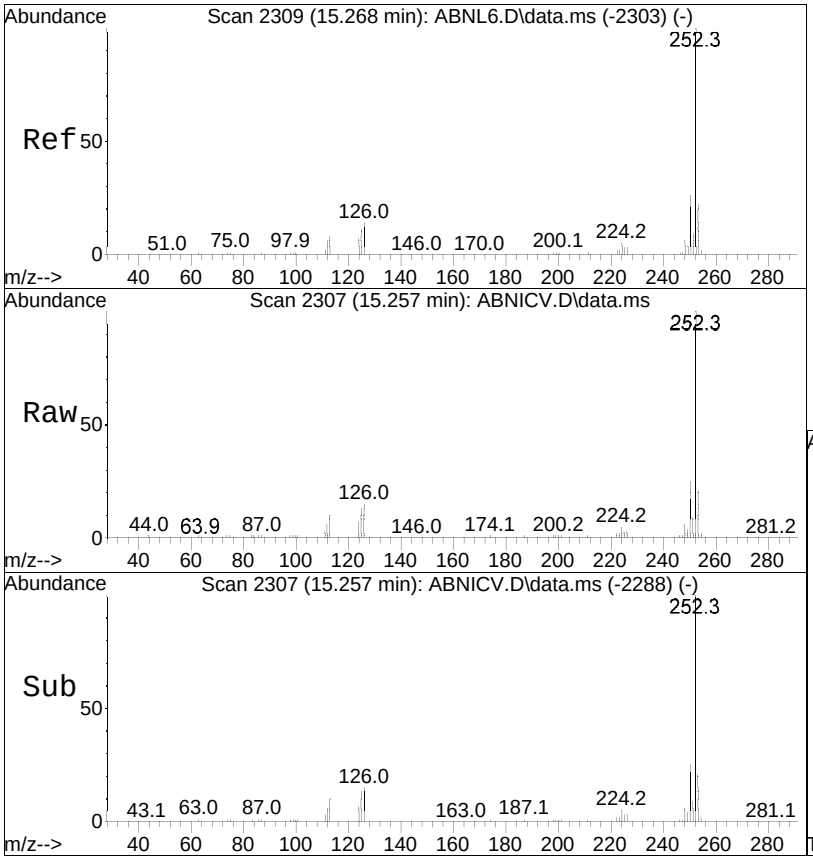


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

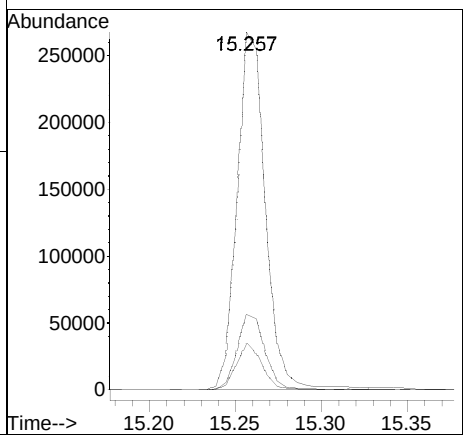


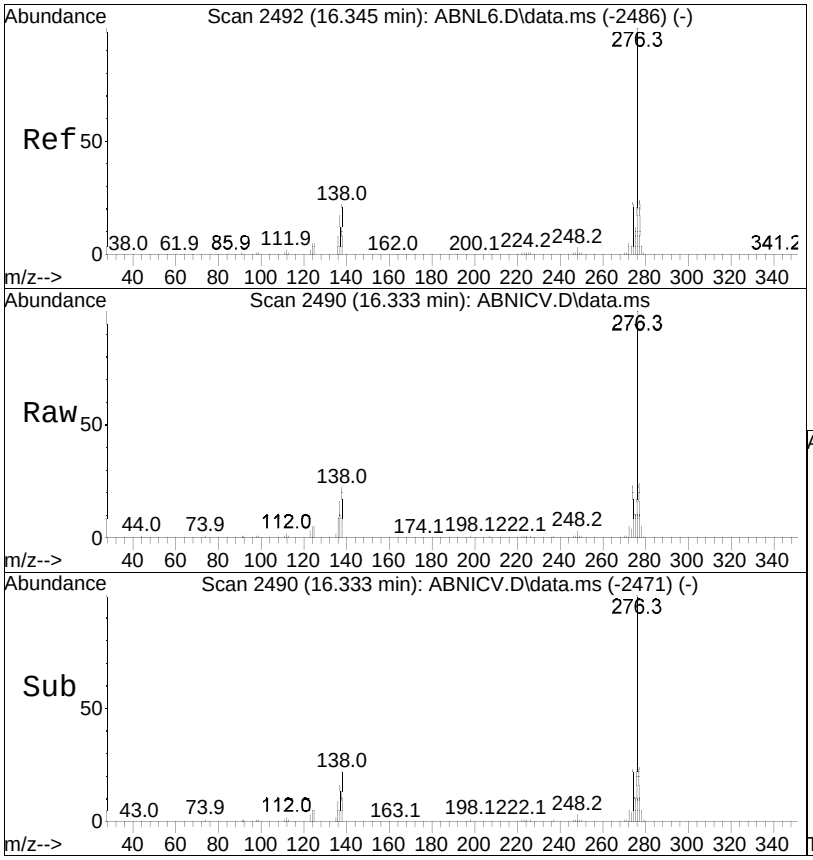


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

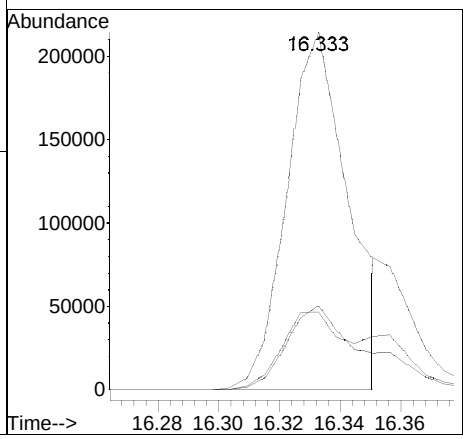


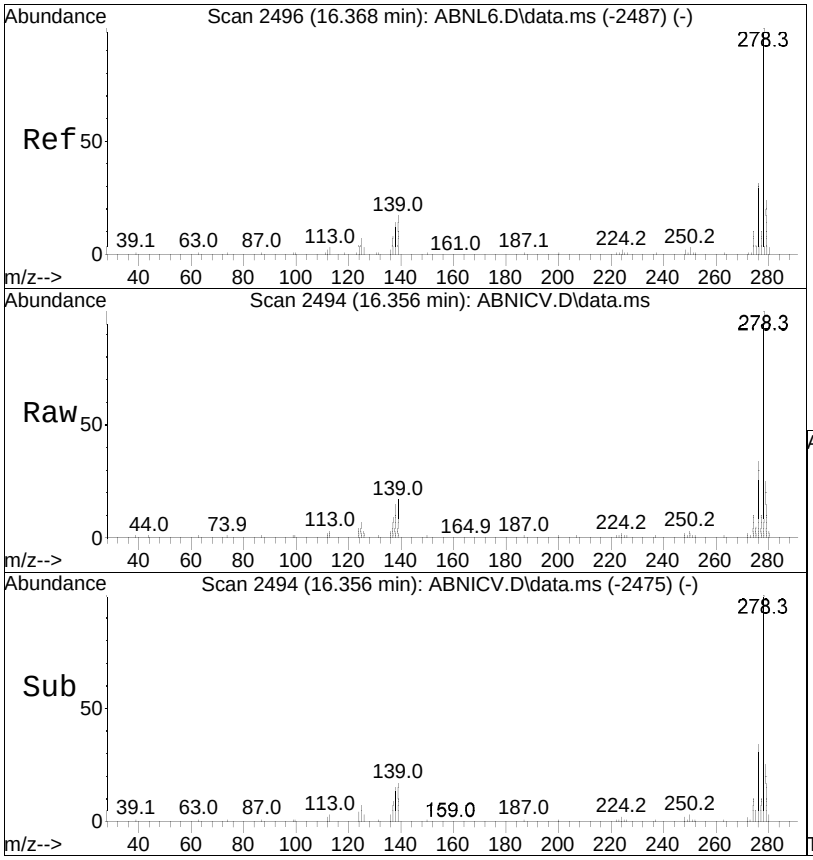


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

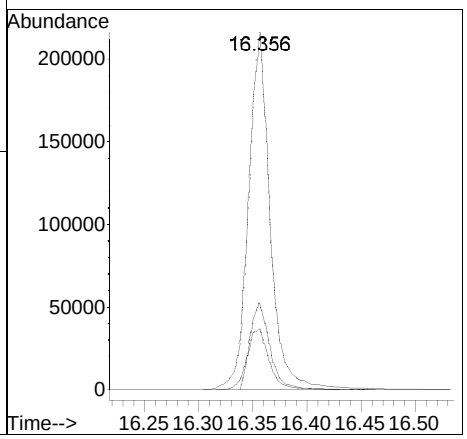


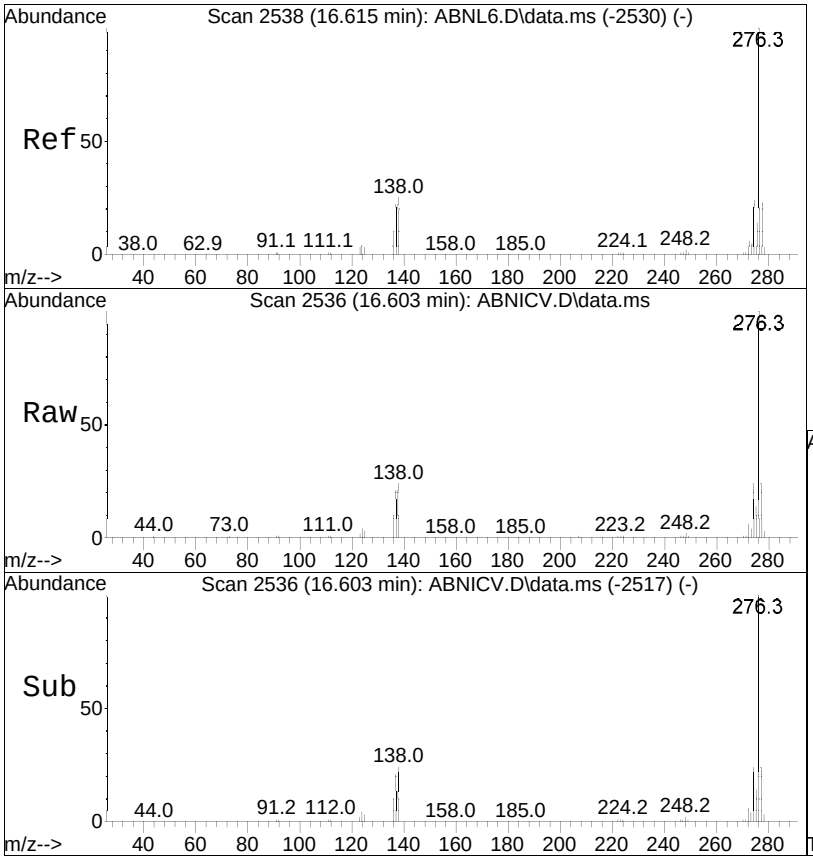


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

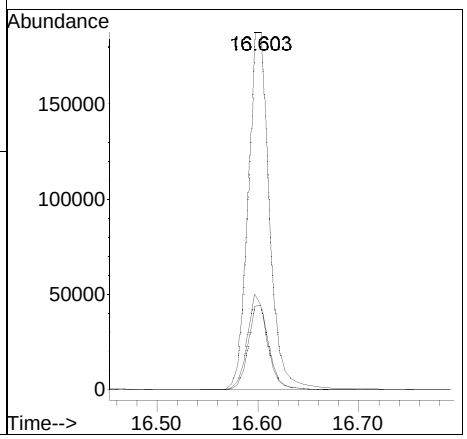




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

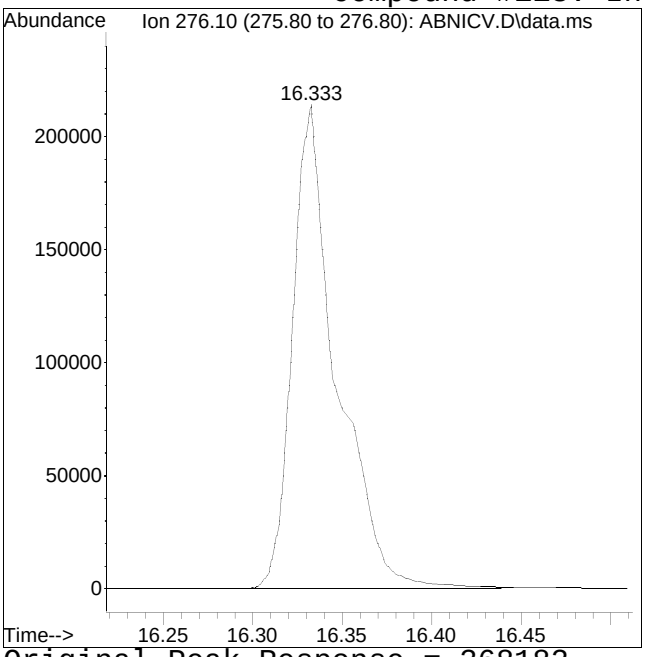
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



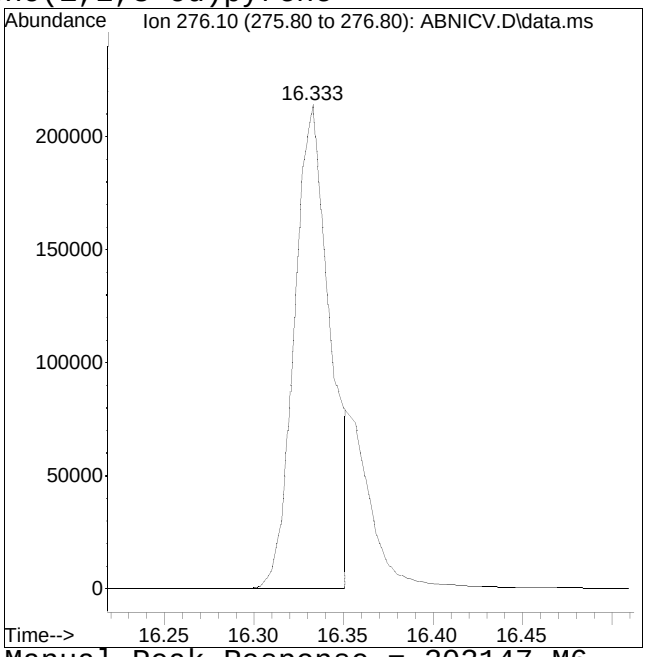
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106 Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

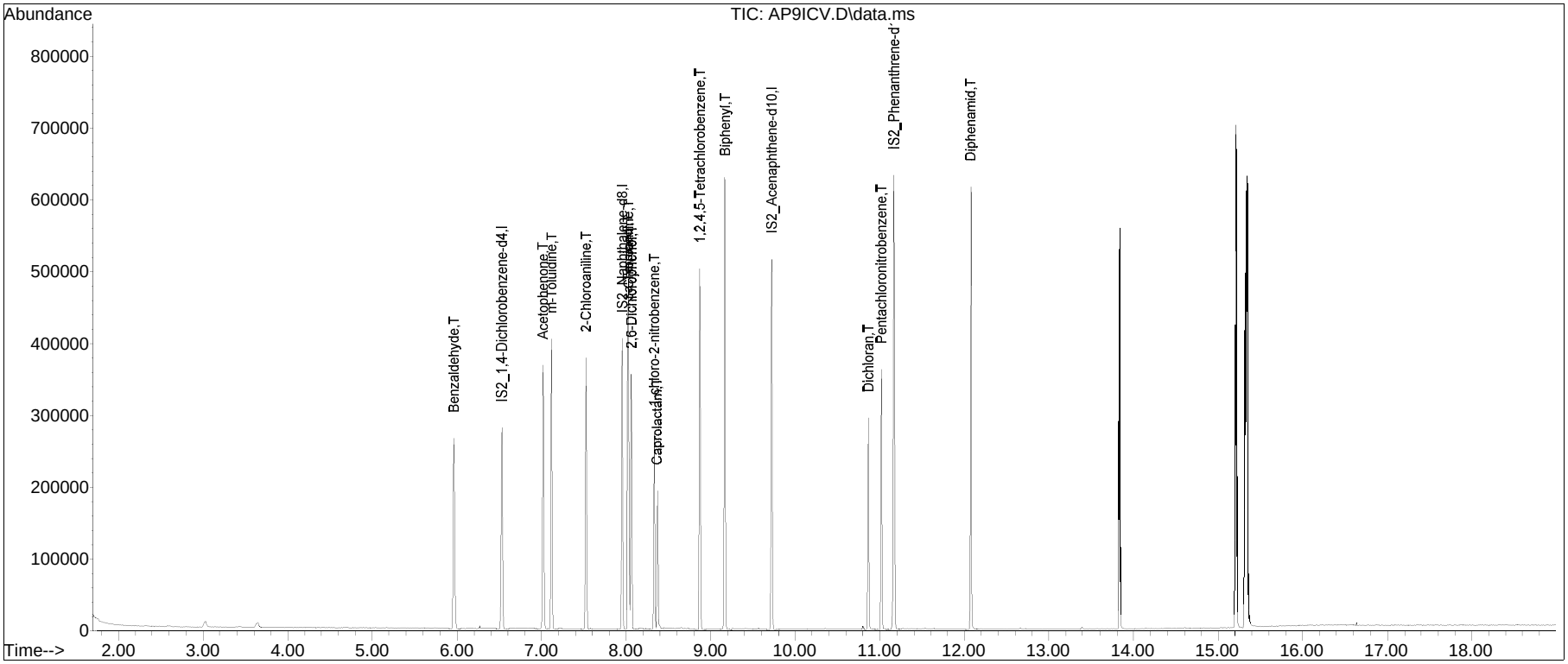
(#) = qualifier out of range (m) = manual integration (+) = signals summed

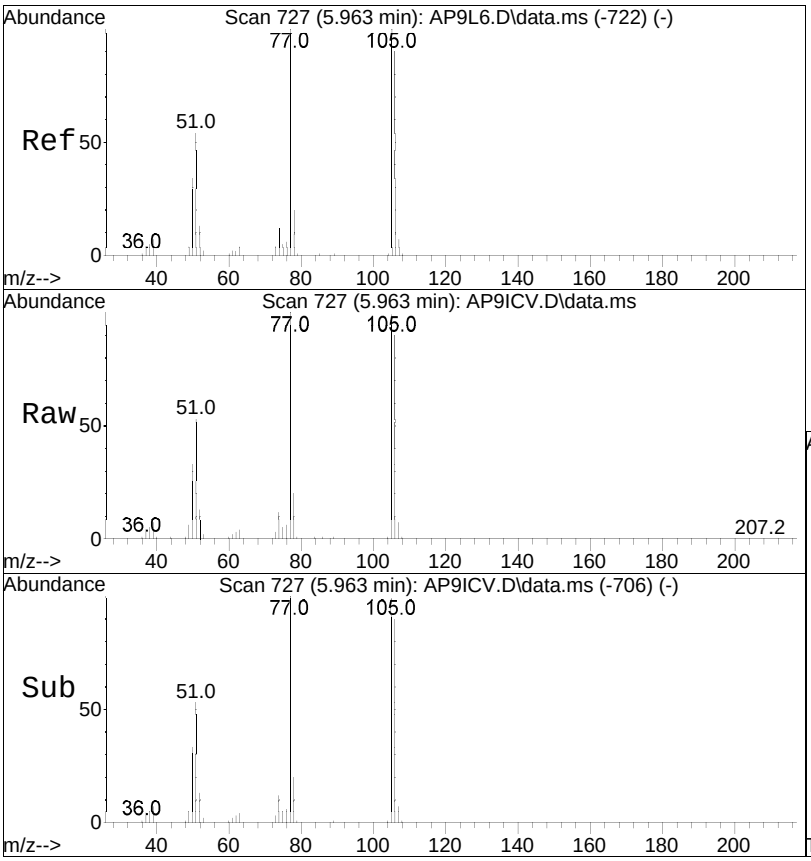
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

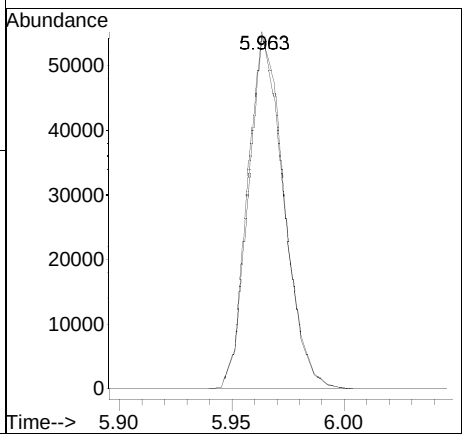


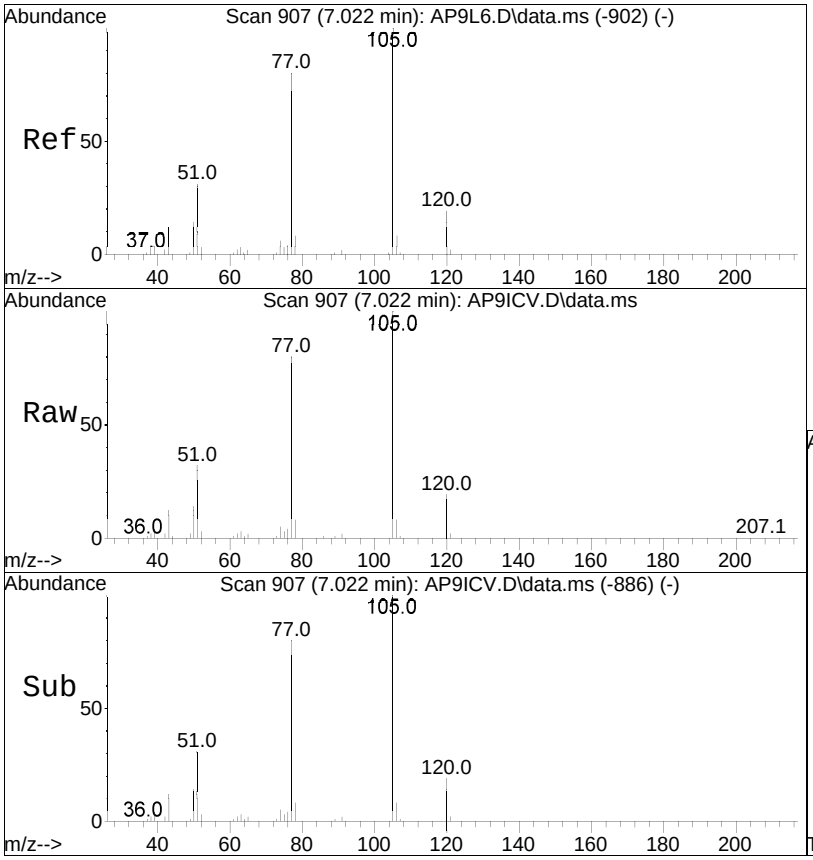


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

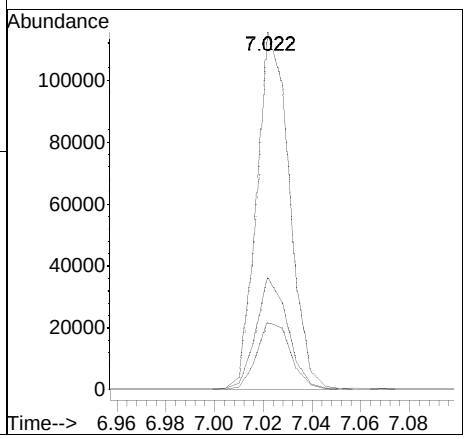


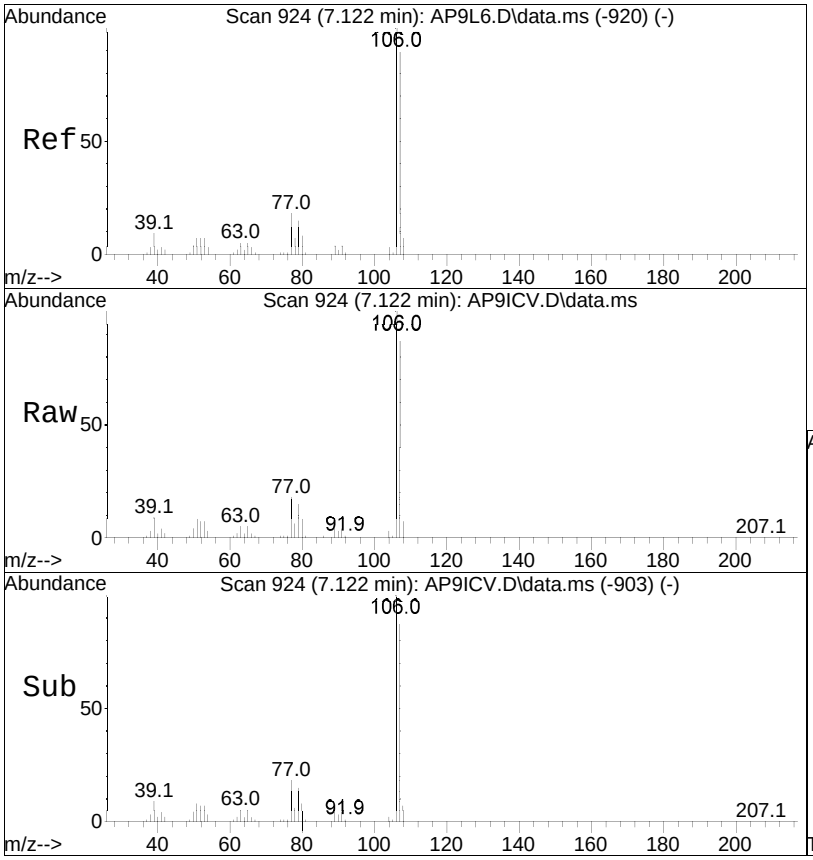


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

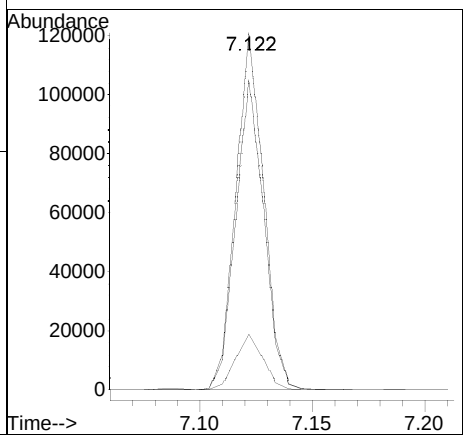


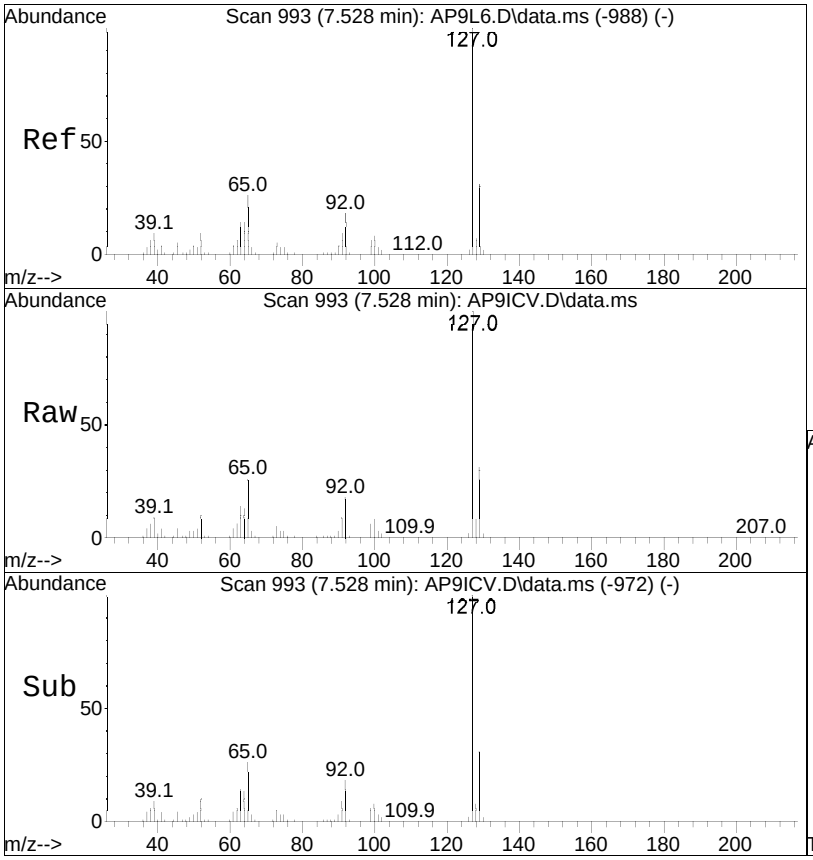


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

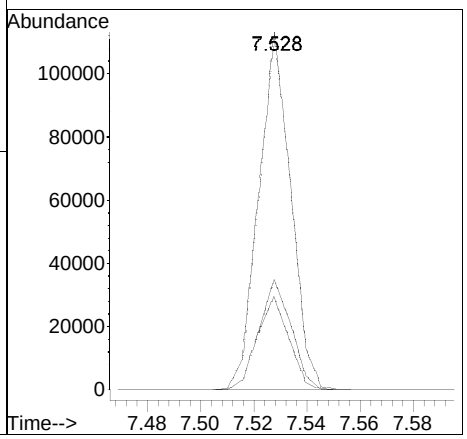


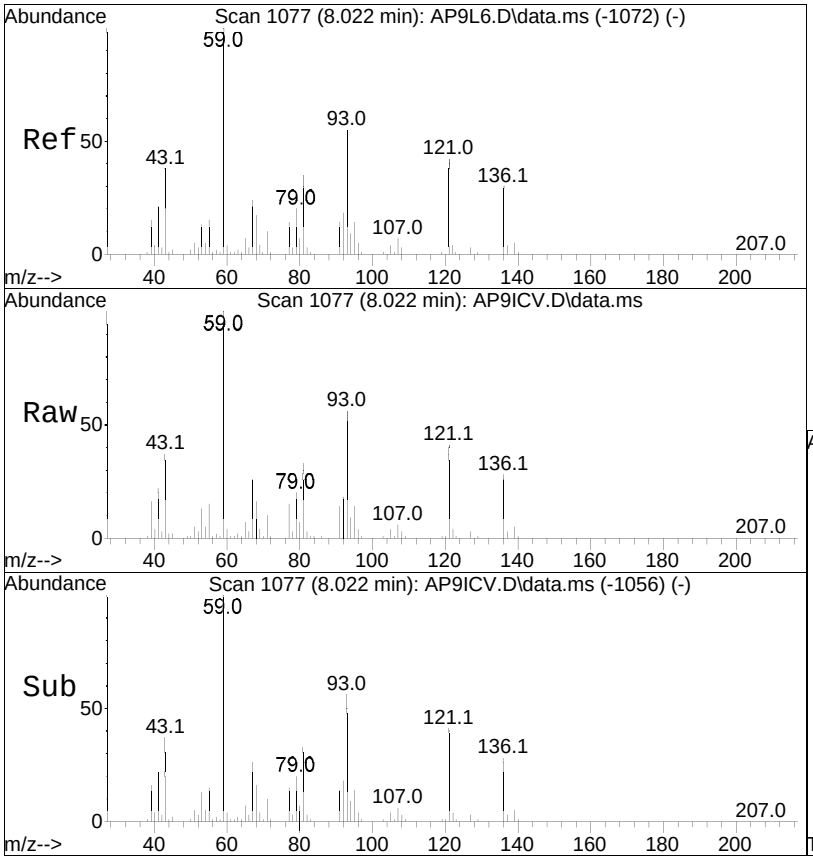


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

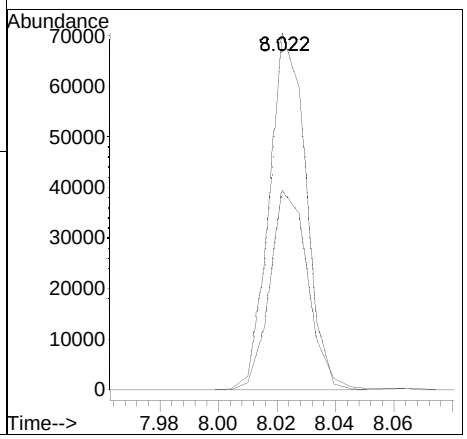


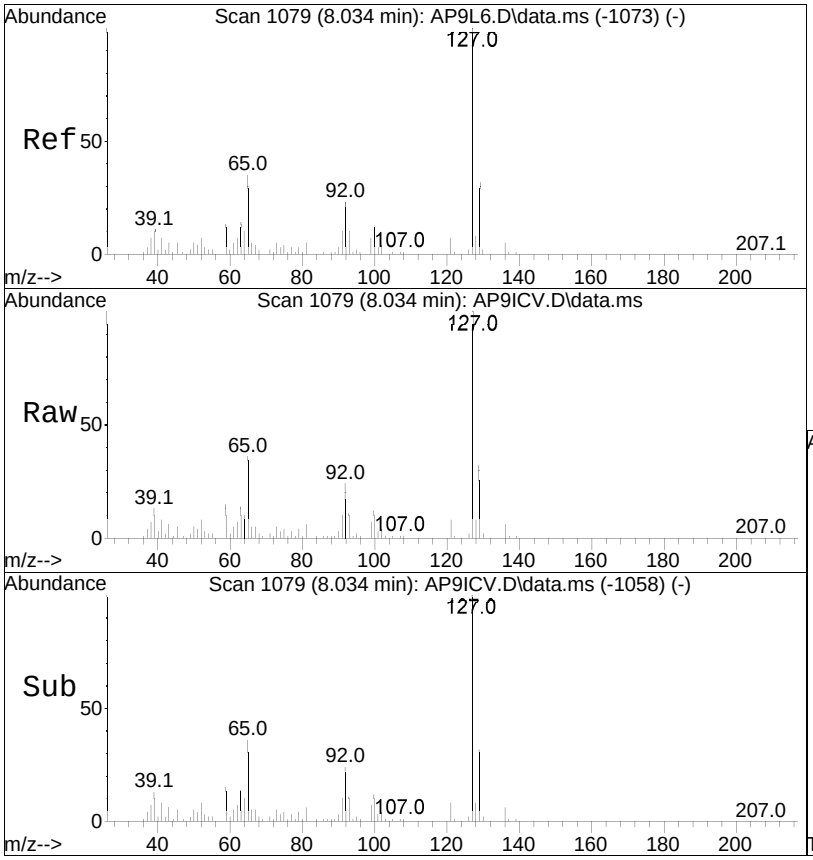


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

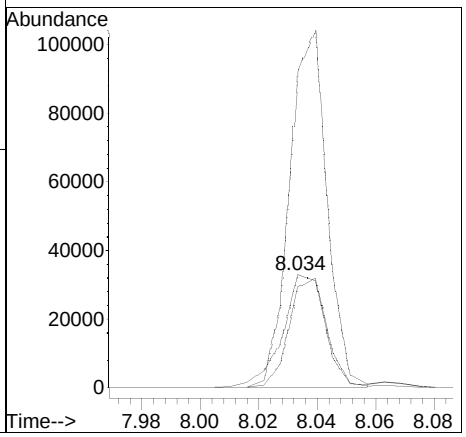


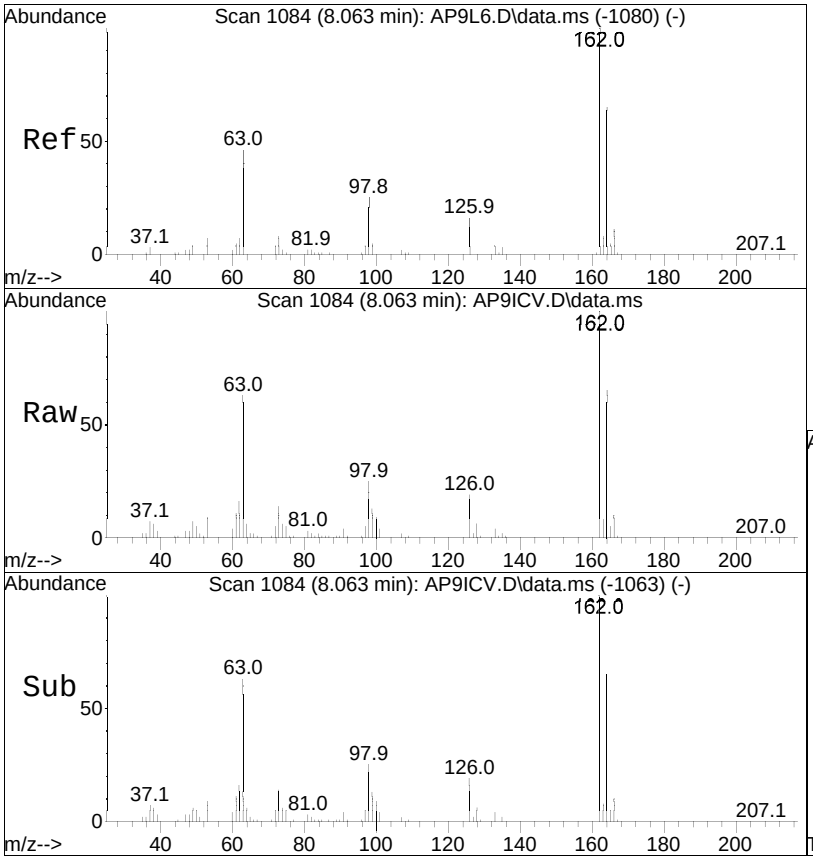


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

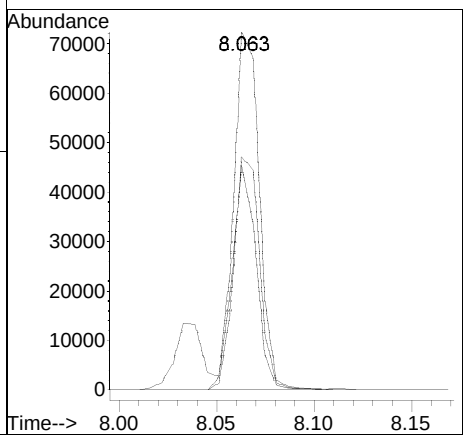


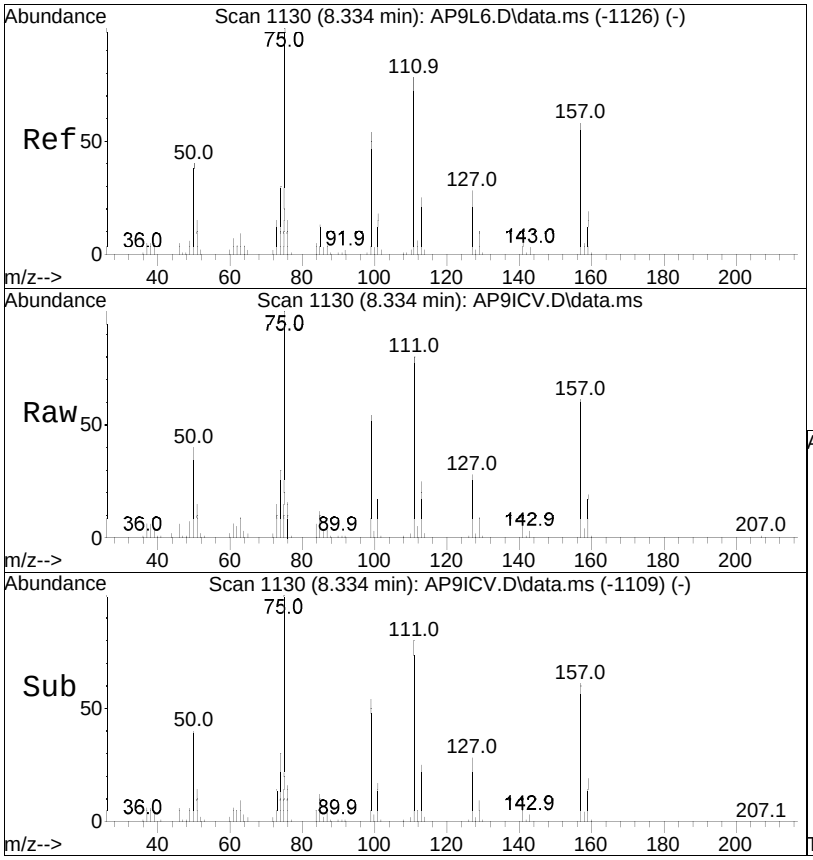


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

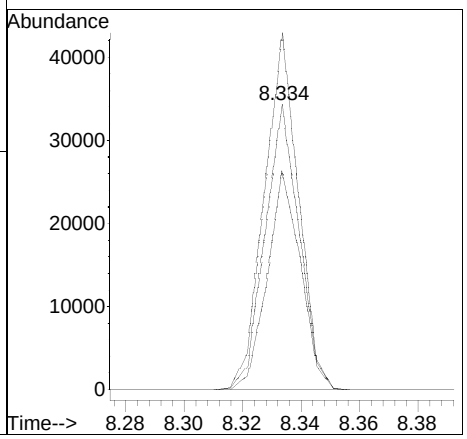


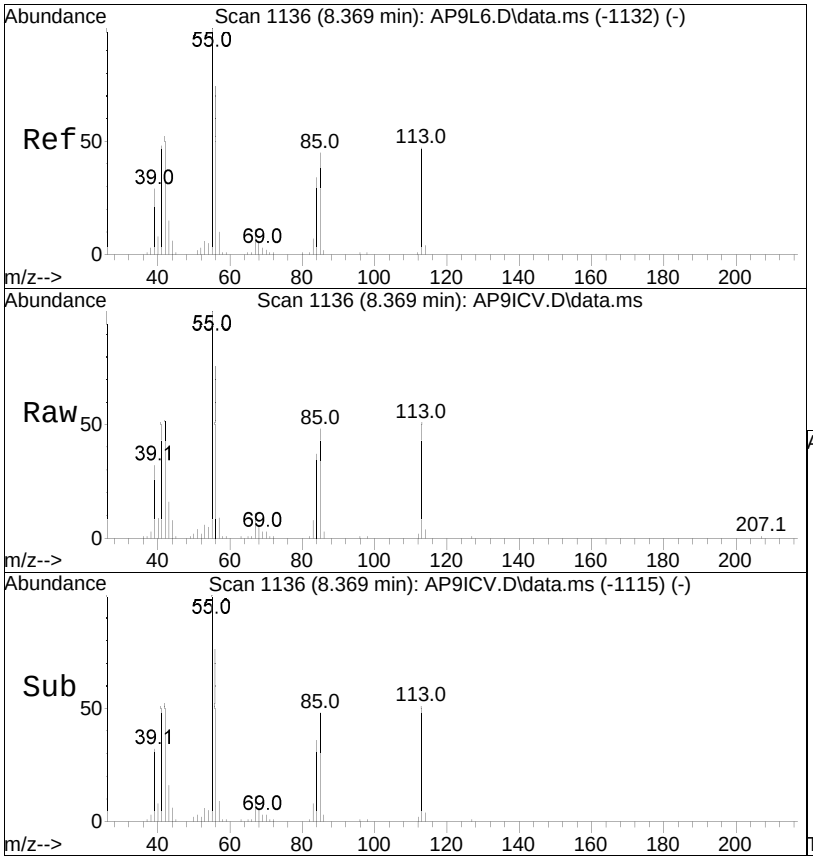


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

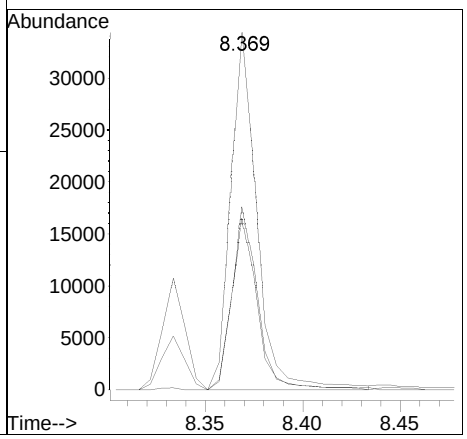


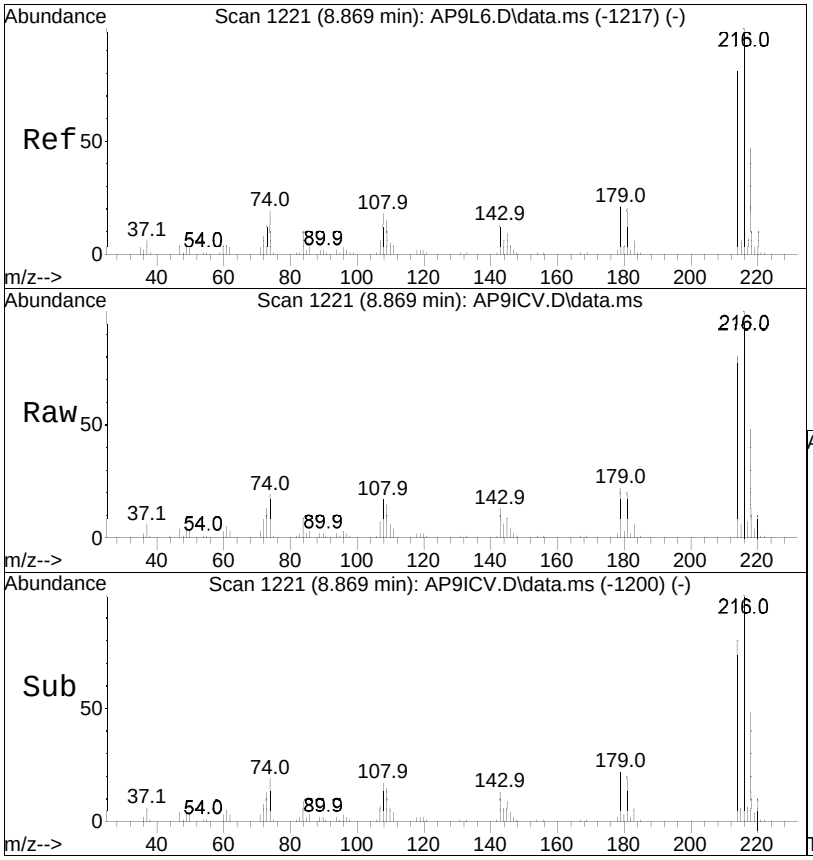


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

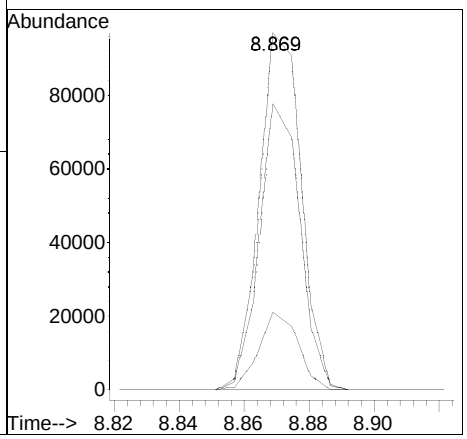


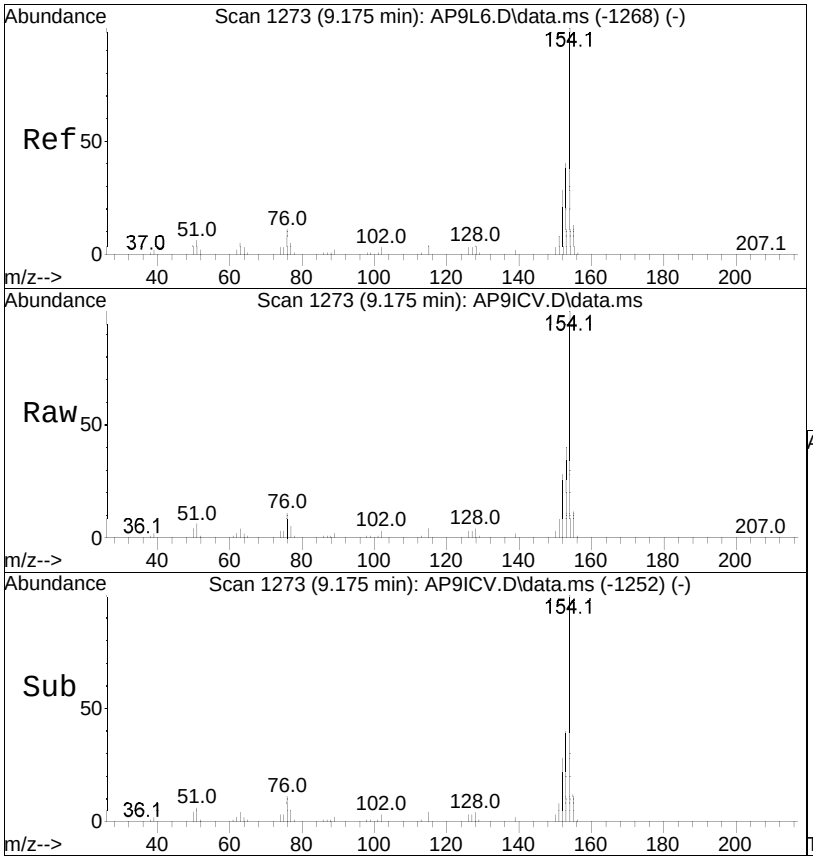


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

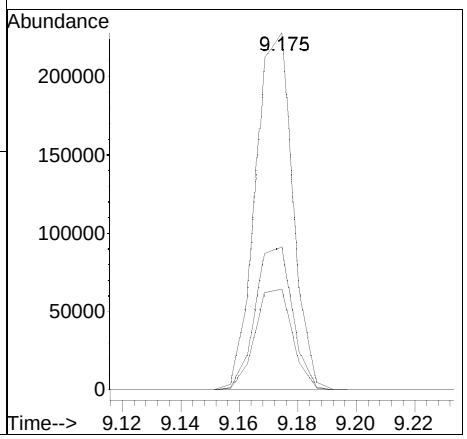


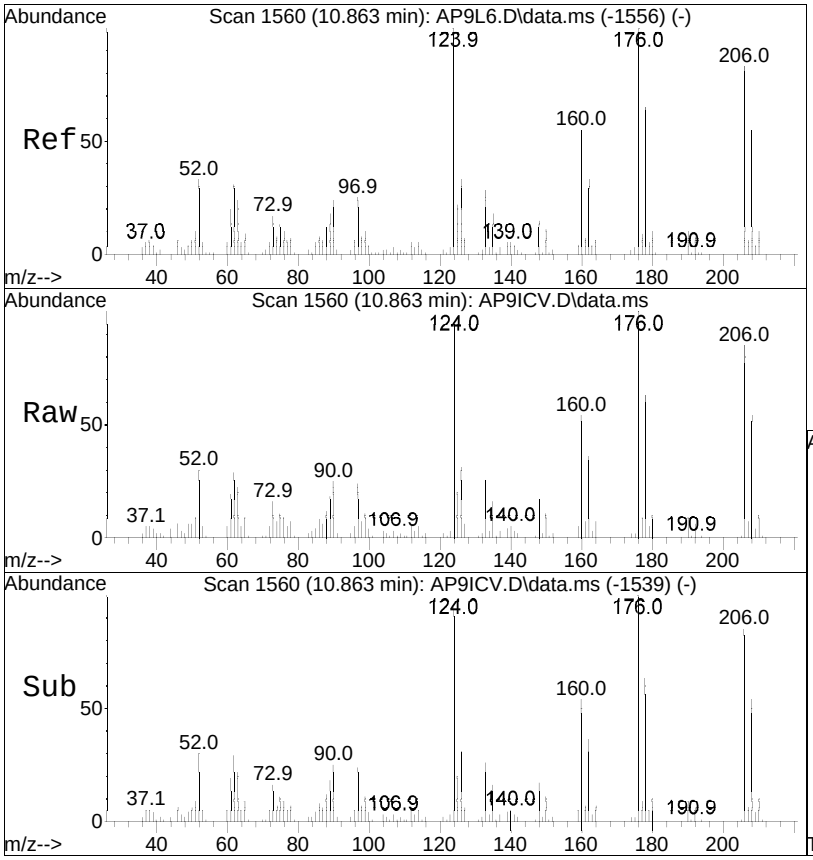


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

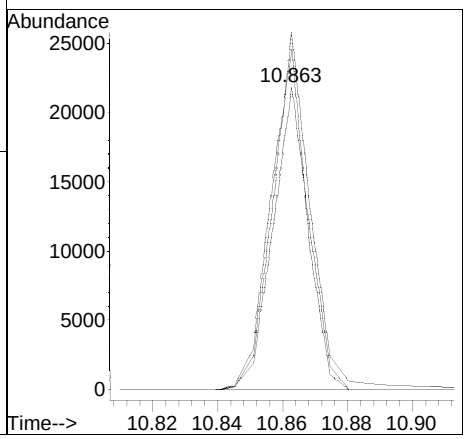


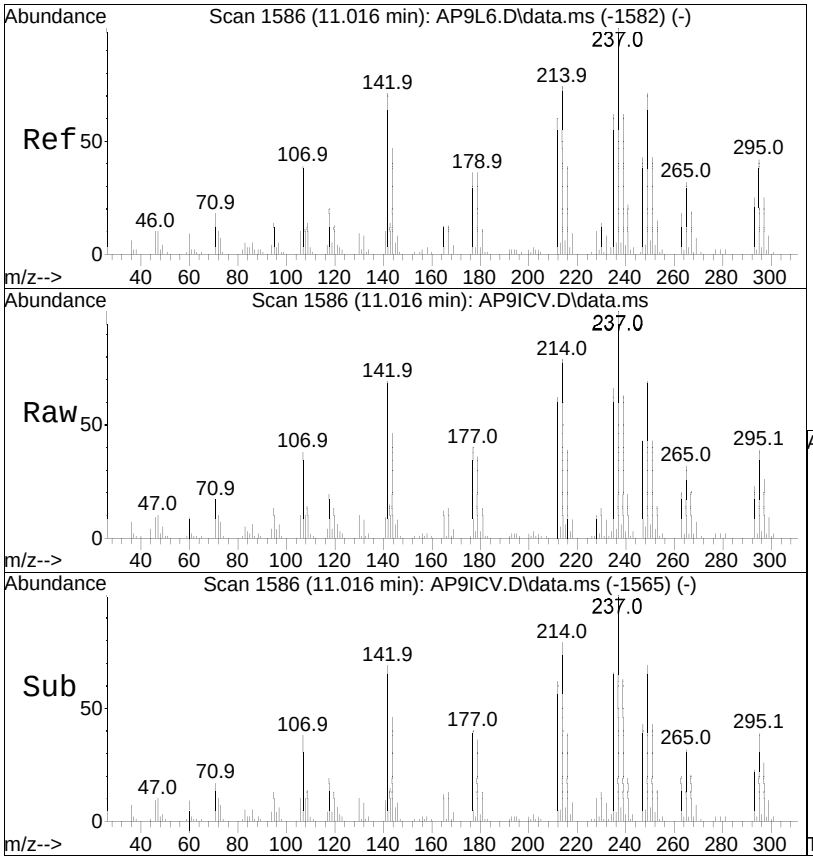


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

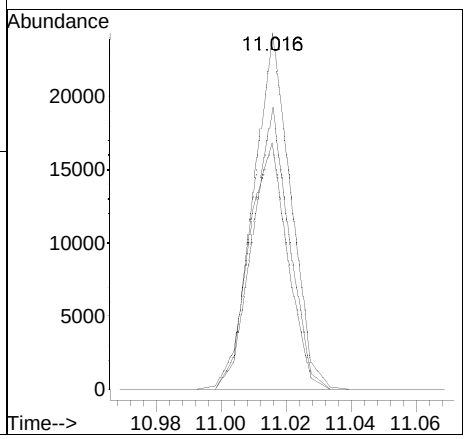


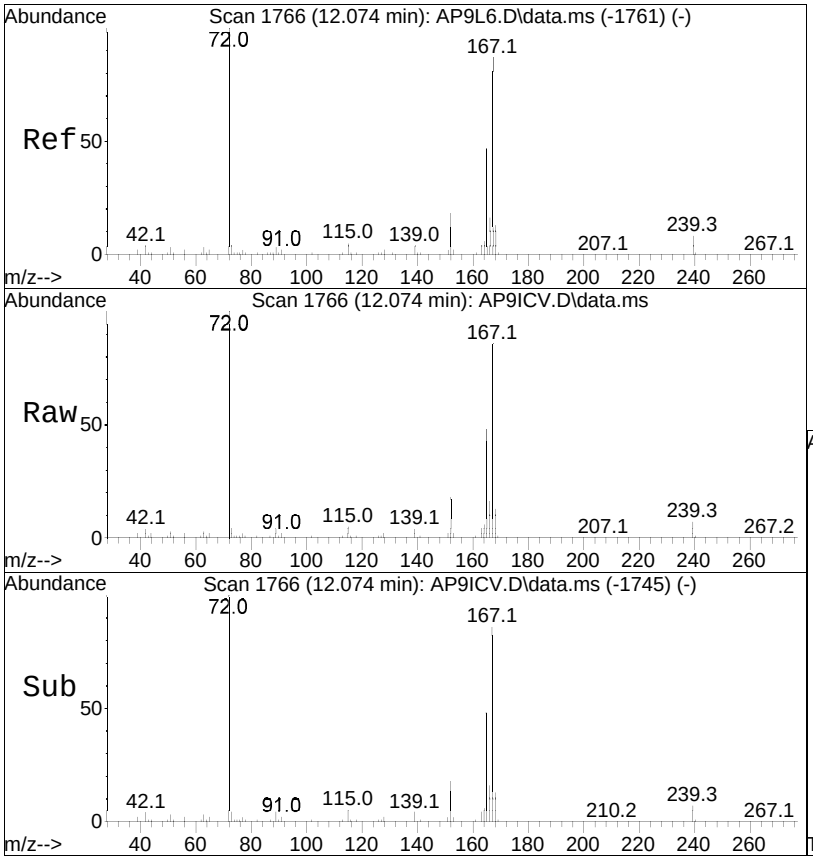


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

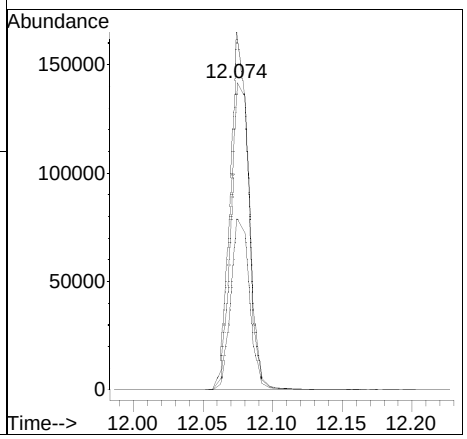




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

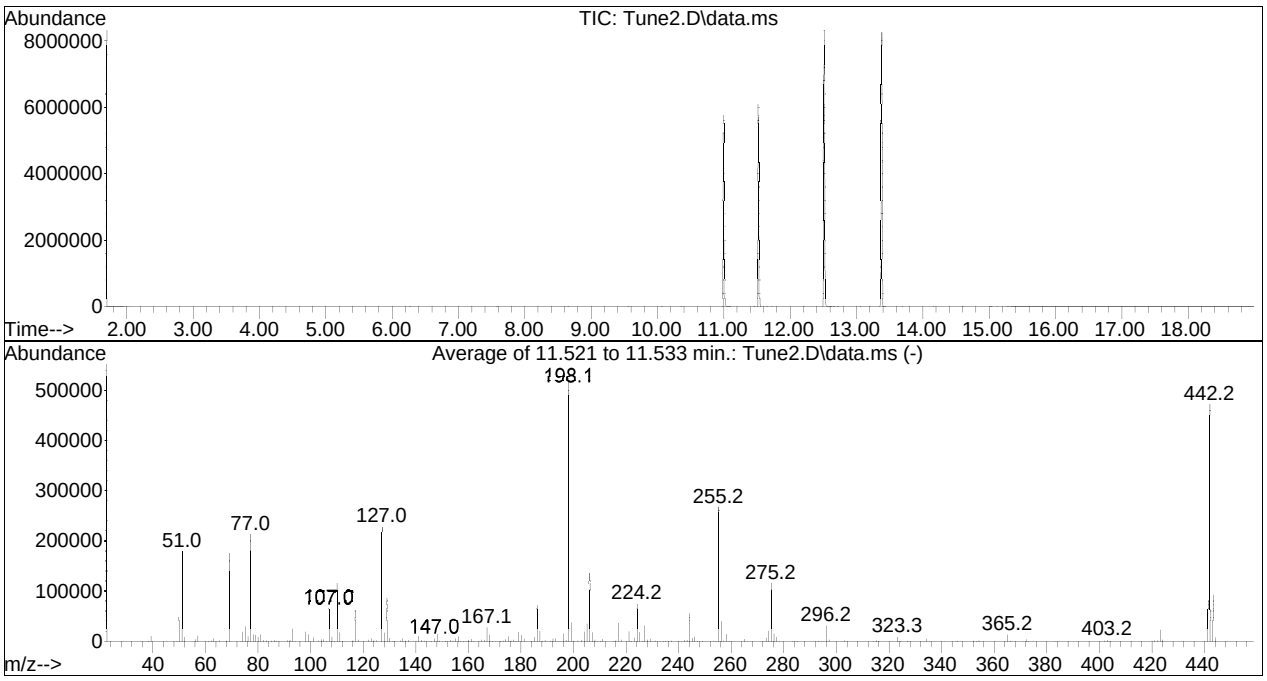
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



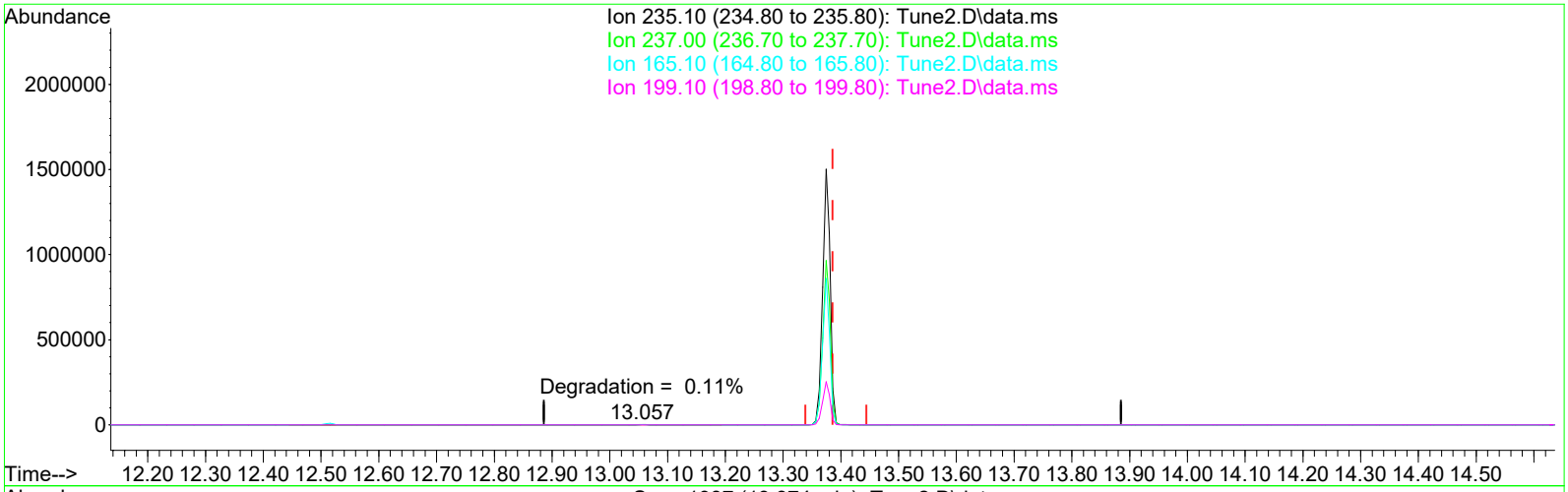
Spectrum Information: Average of 11.521 to 11.533 min.

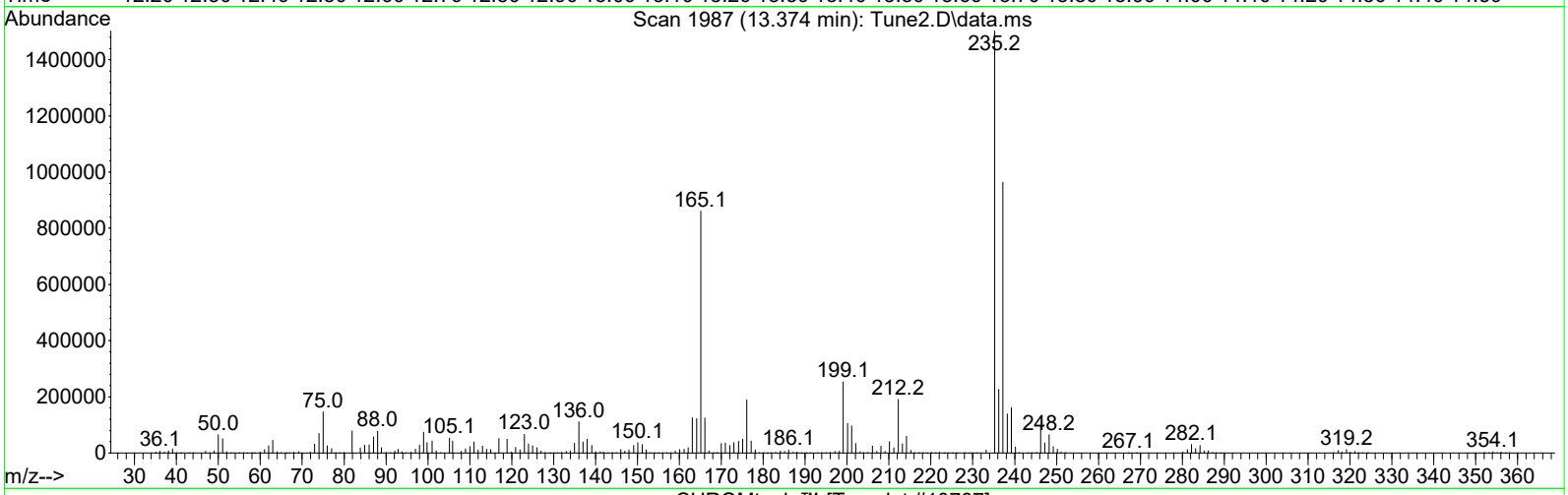
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

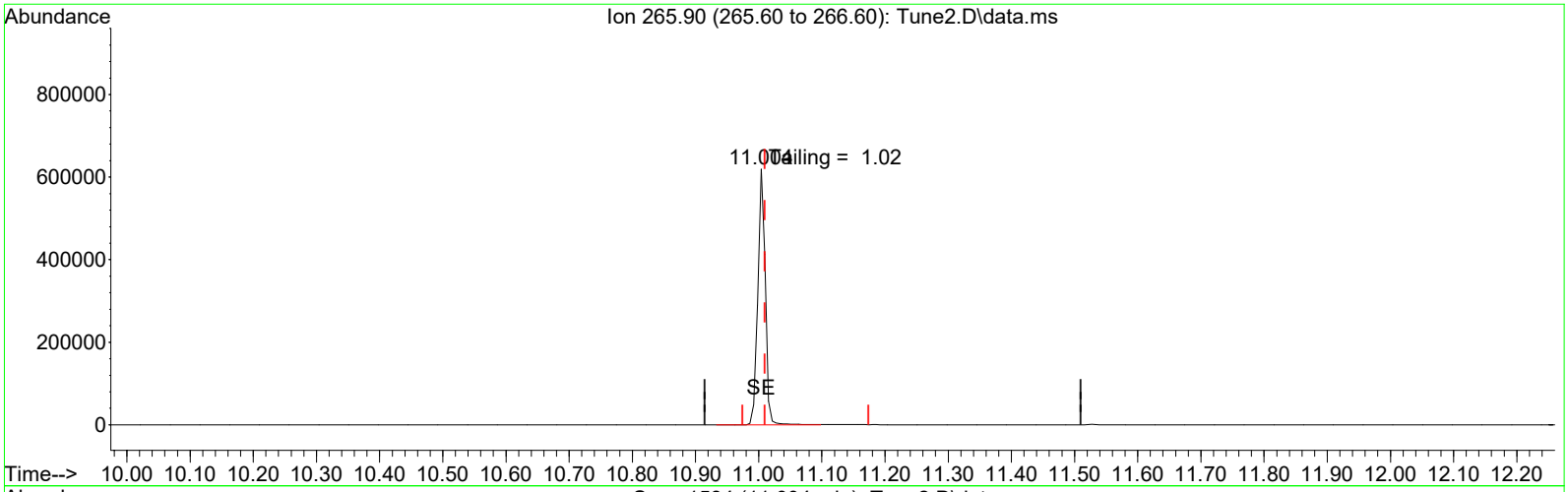
response 1373258

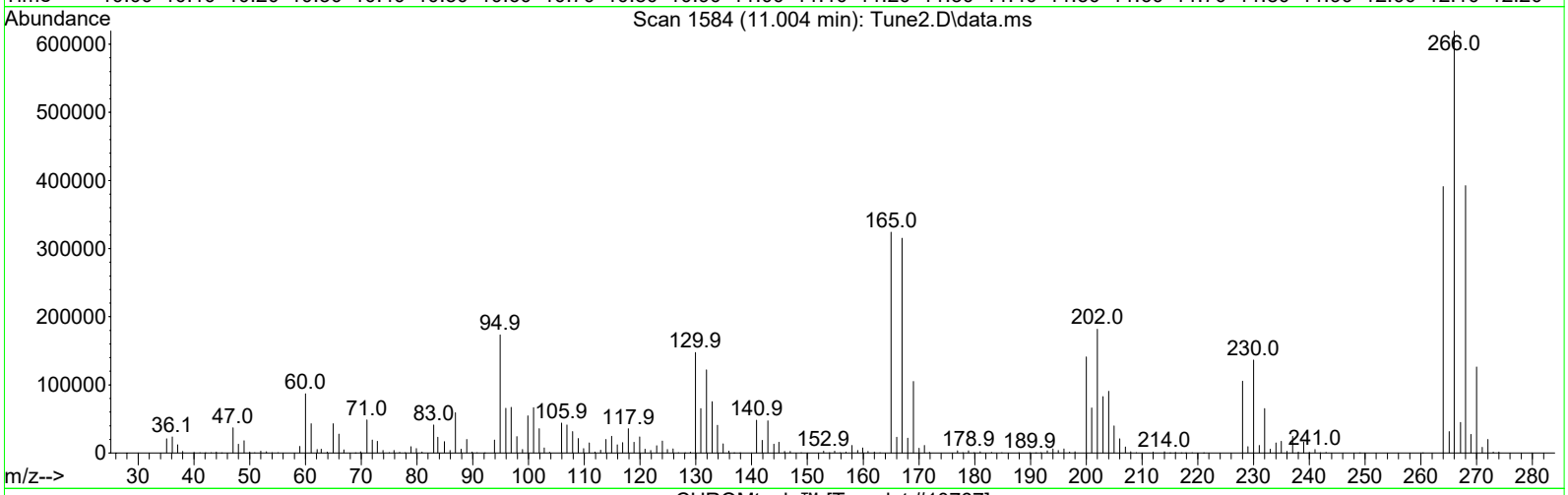
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

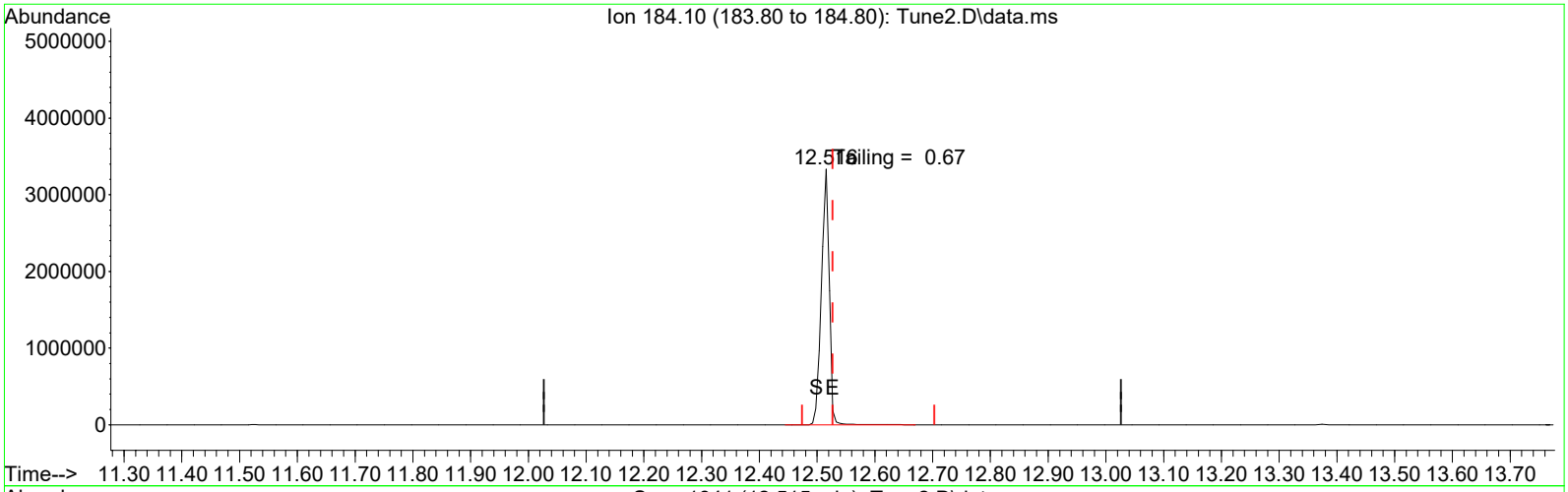
Duplicate Retention Times

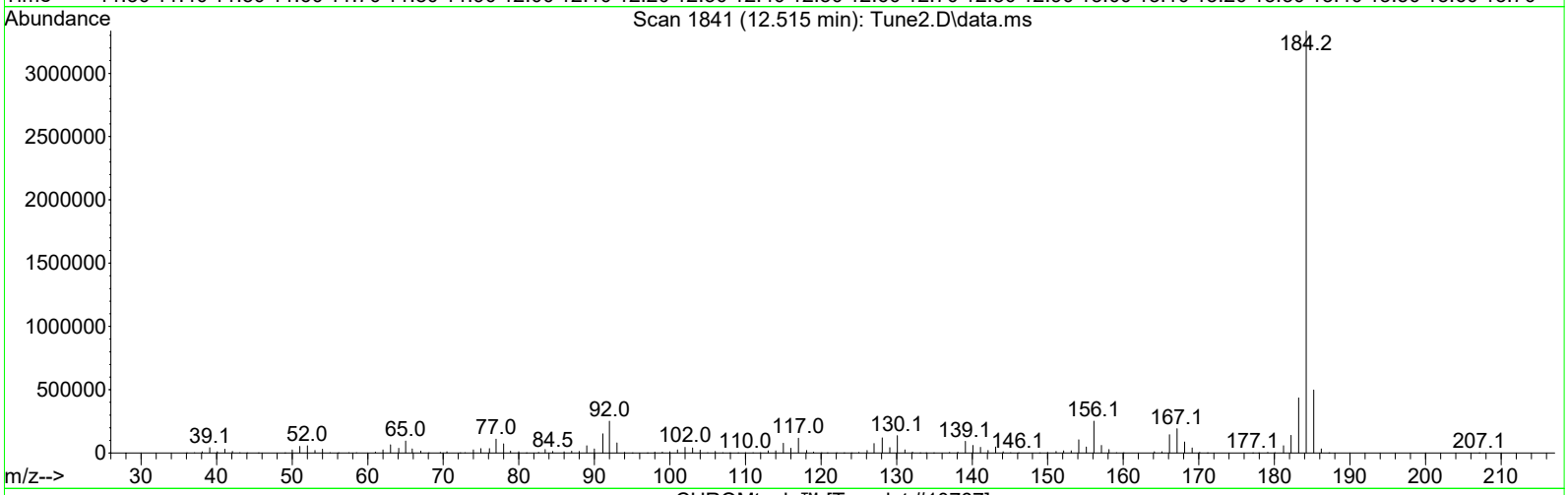
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

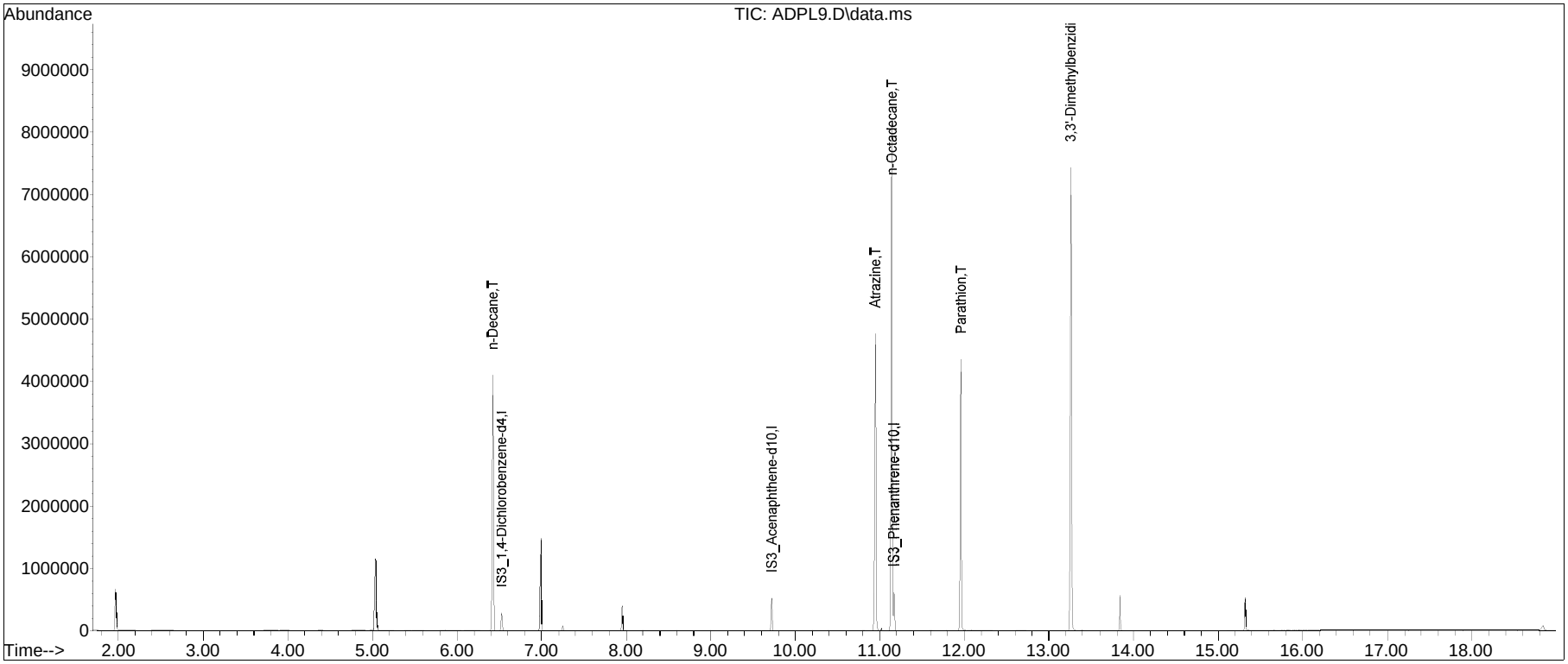
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

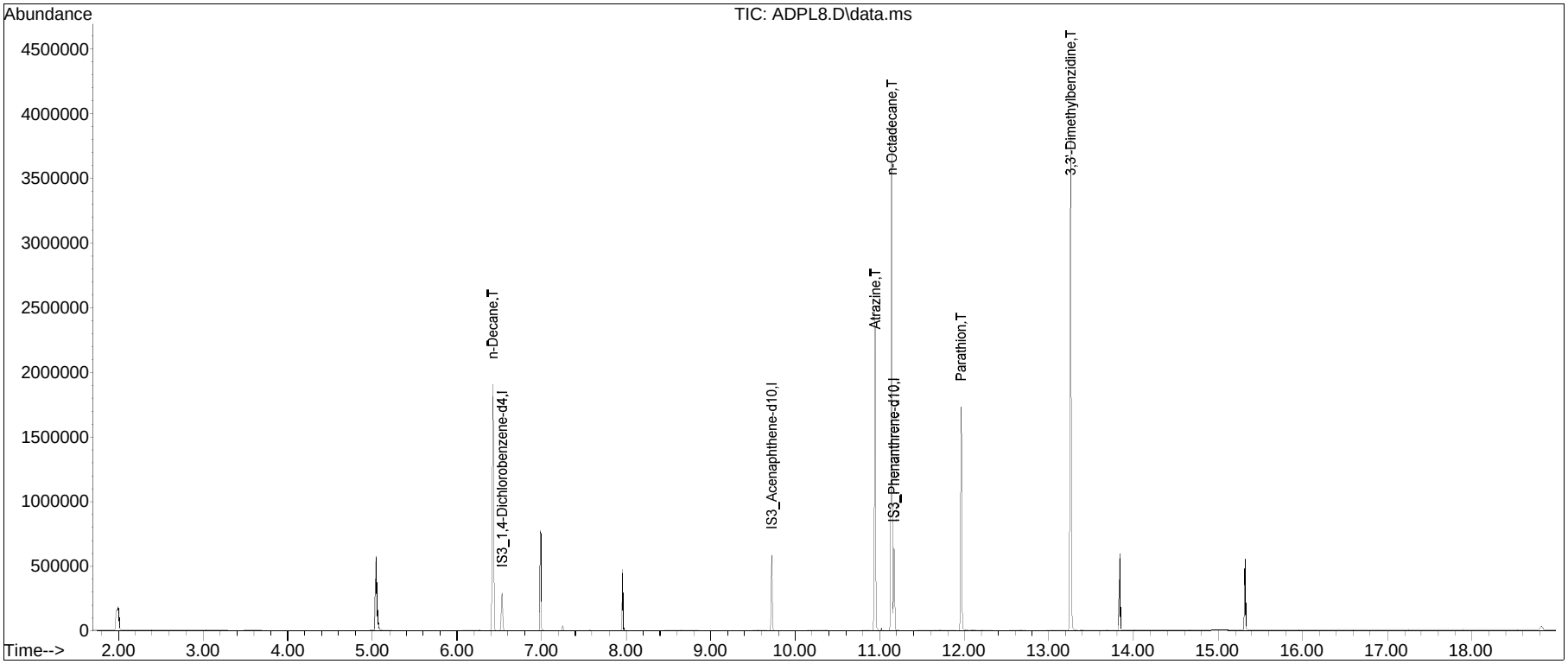
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

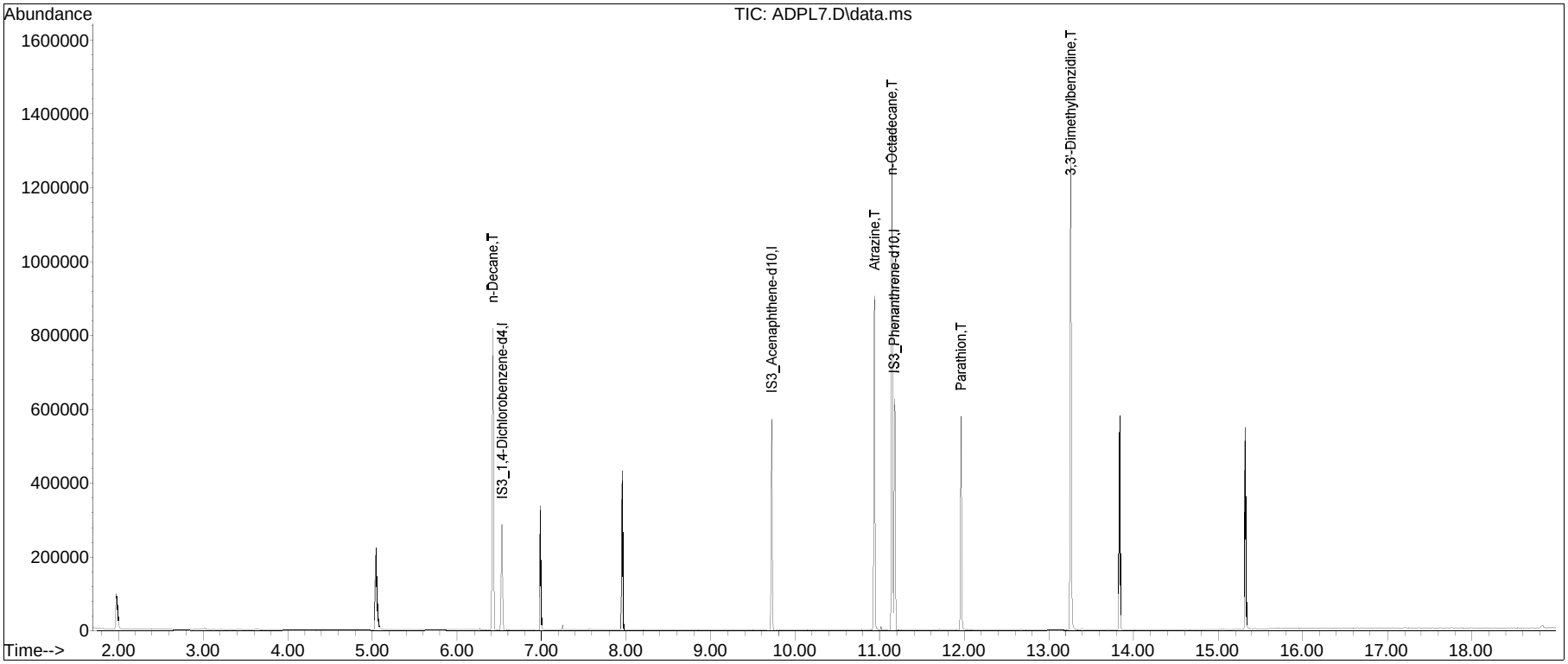
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

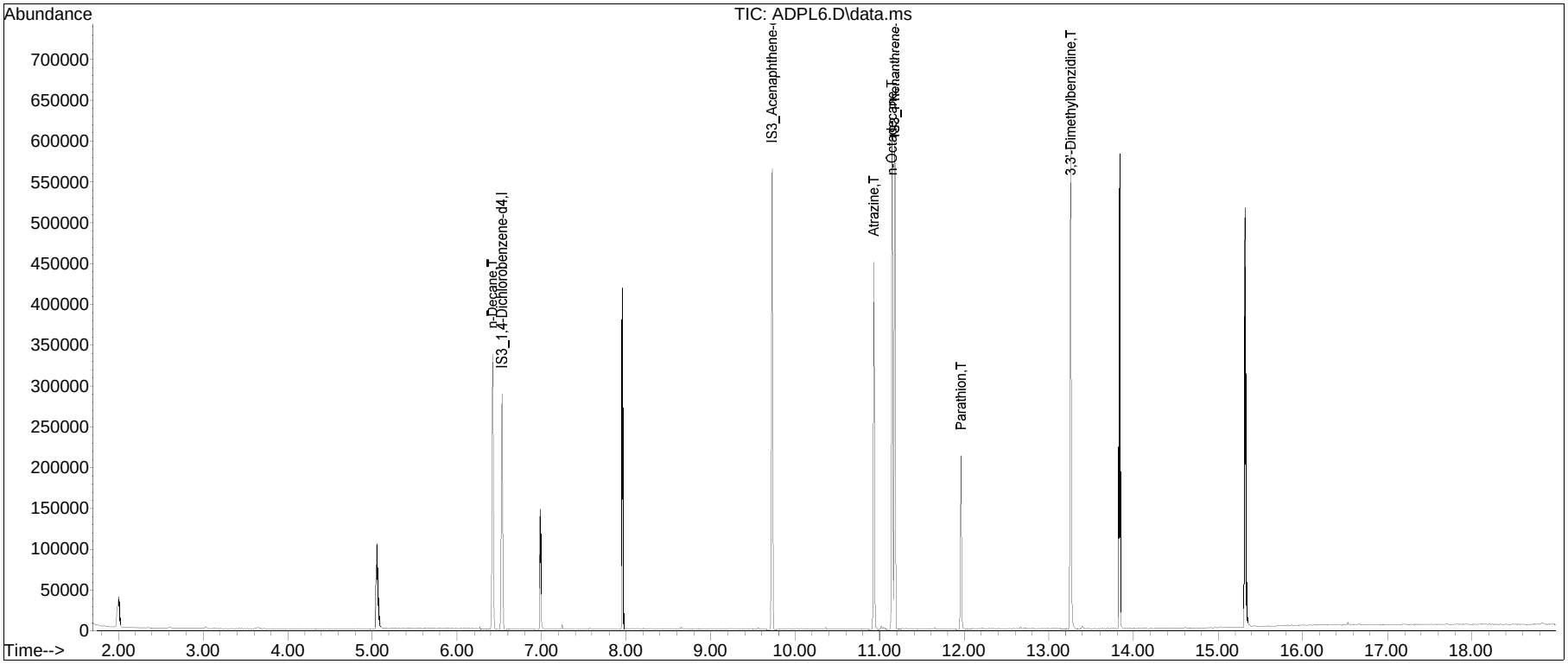
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

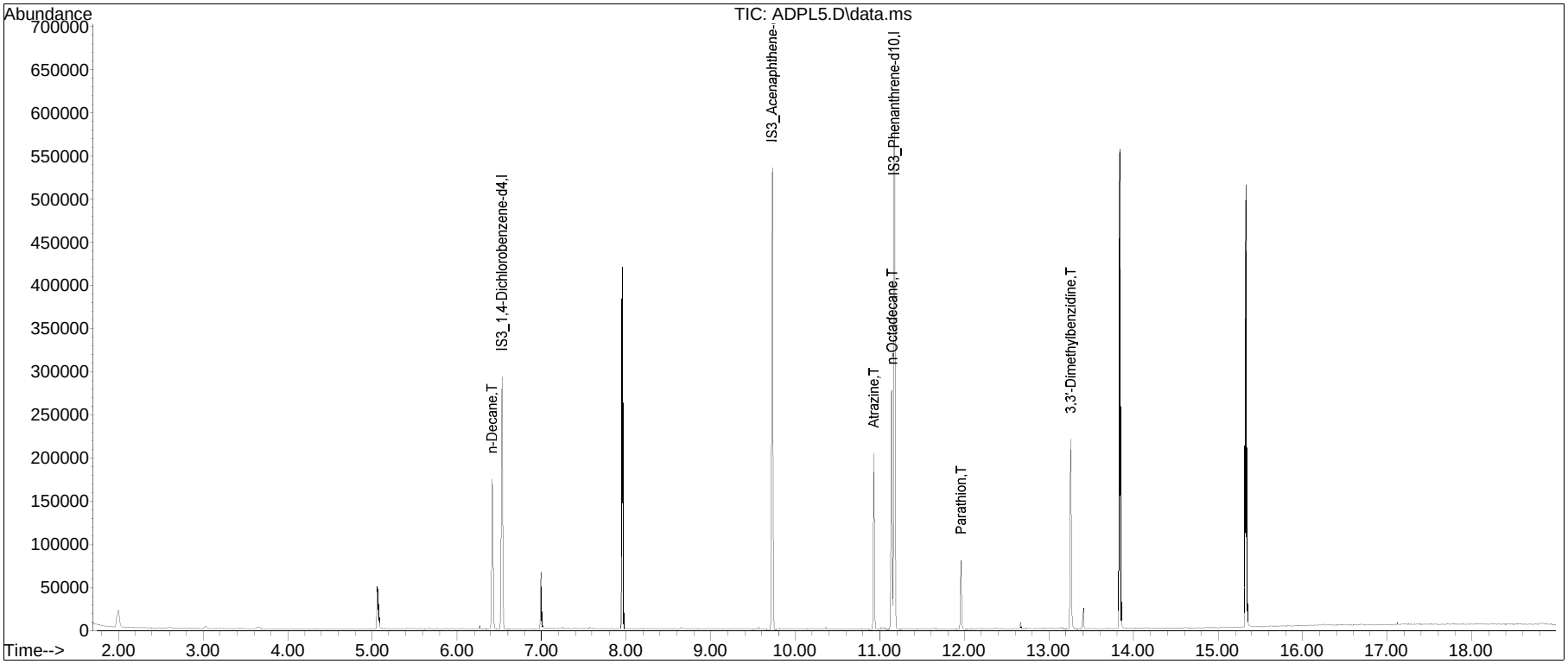
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

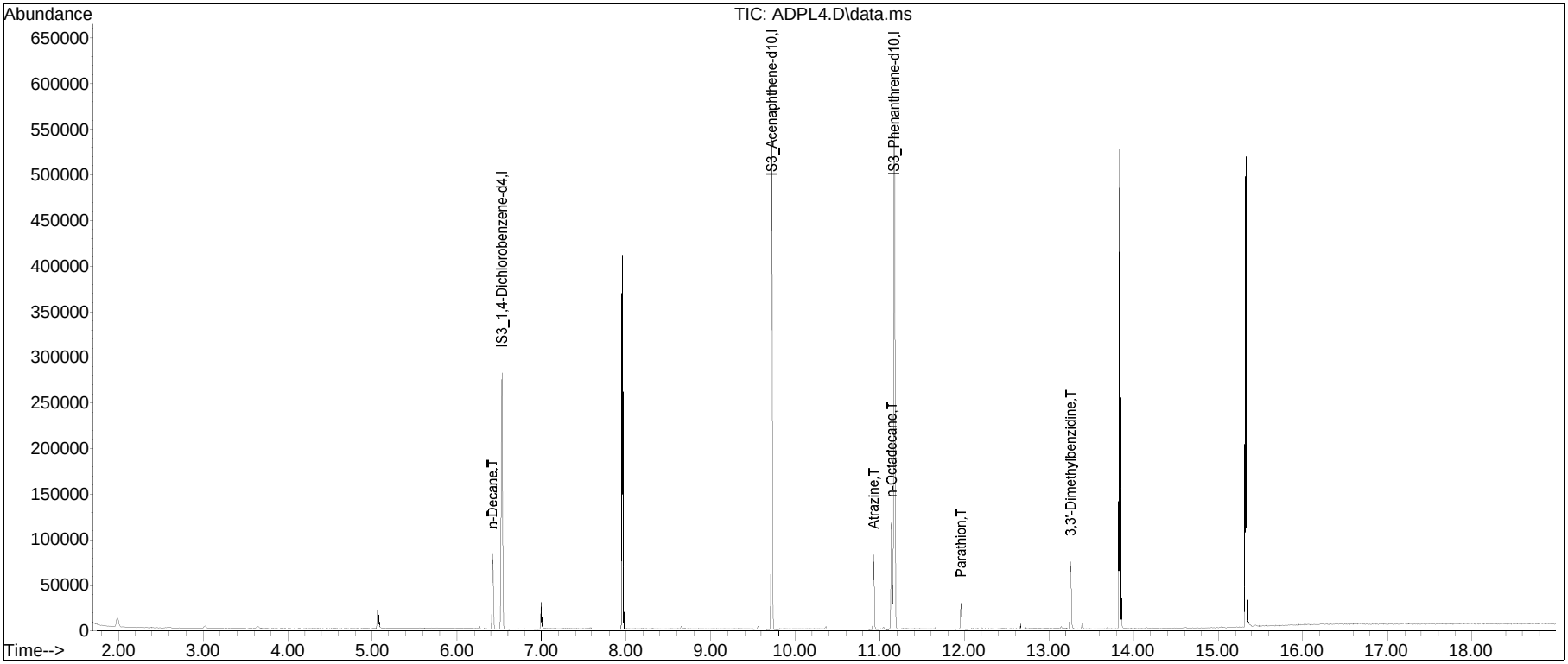
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

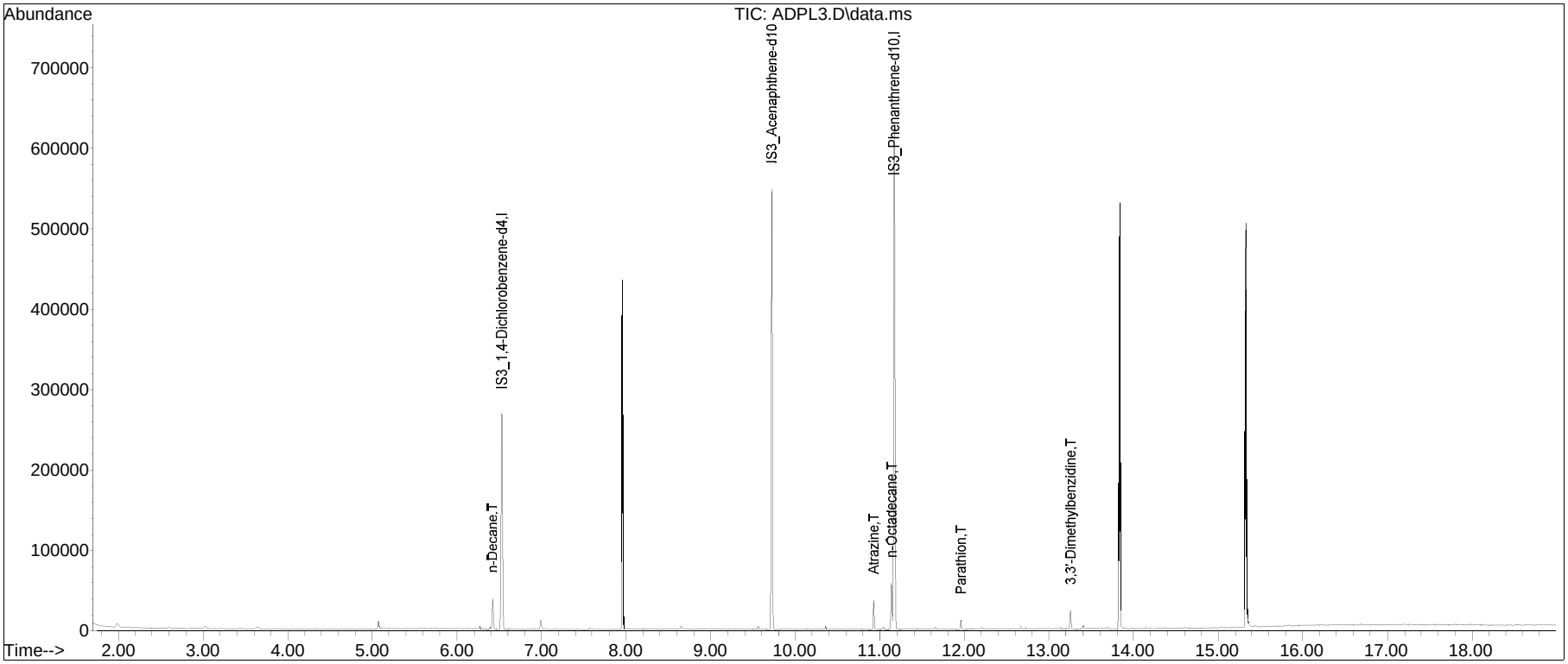
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

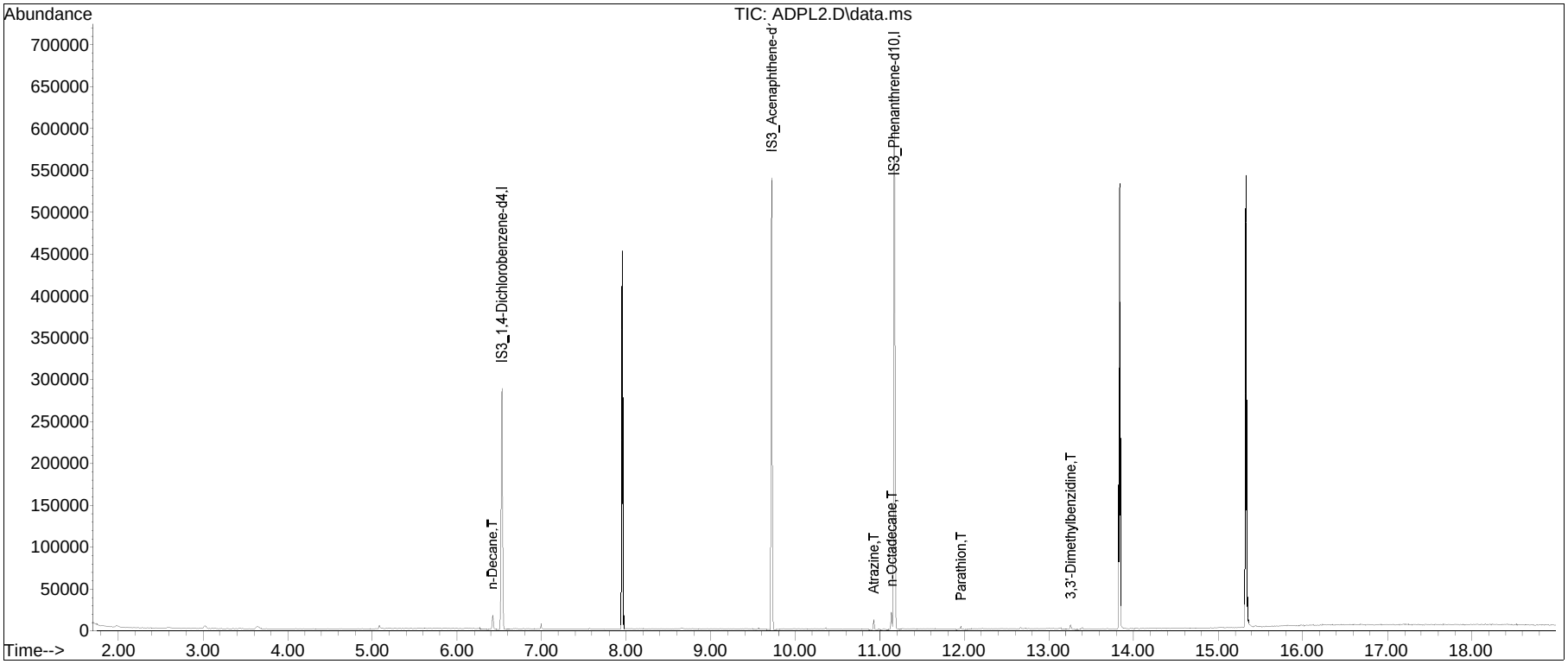
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery = 98.61%				
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery = 95.47%				
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery = 94.14%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	#	41
86) Atrazine	10.933	200	629	0.162	ug/ml	#	33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	#	1
101) Parathion	11.951	109	154M2	0.426	ug/ml		
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	#	62

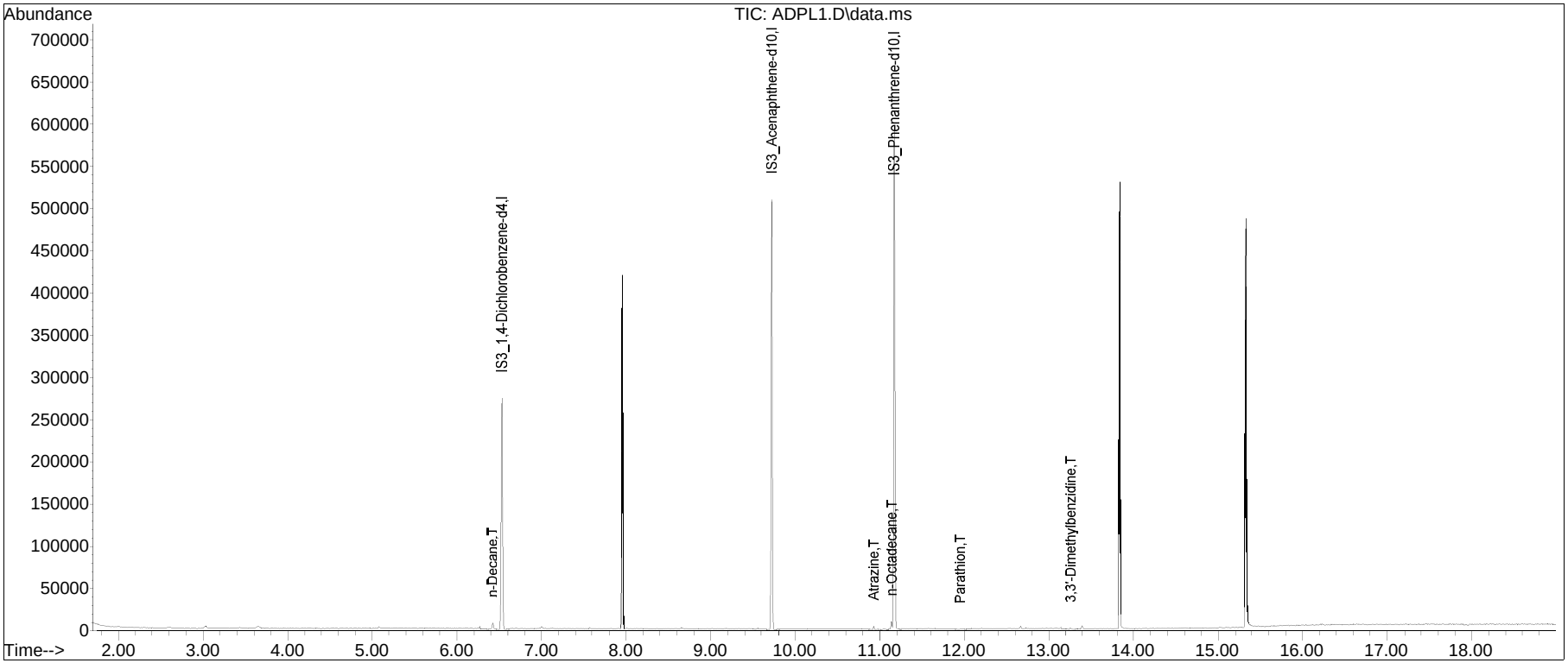
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

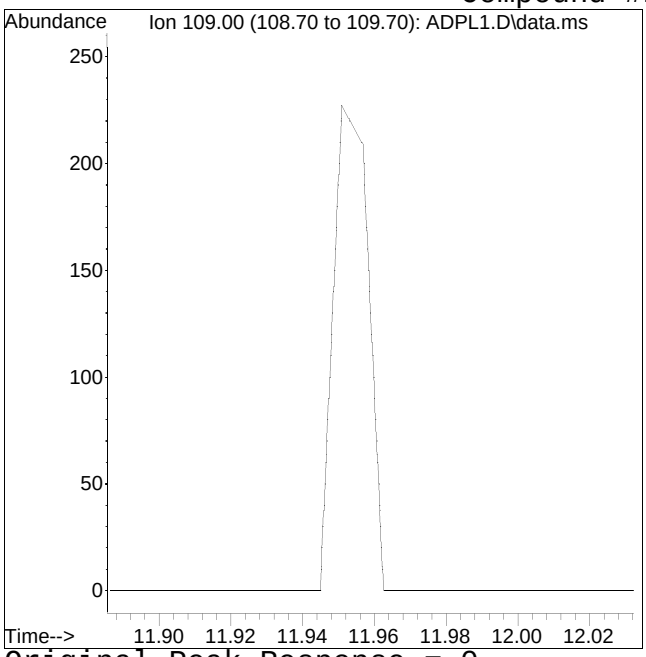
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



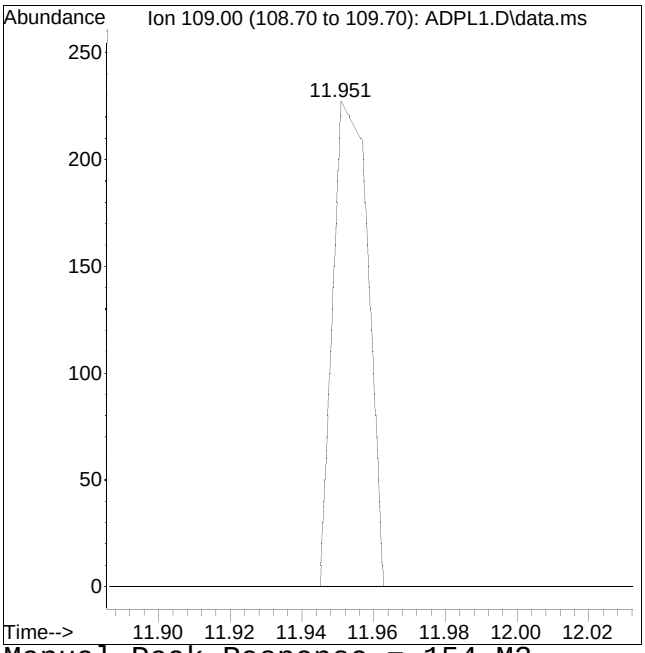
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery = 103.11%				
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery = 104.22%				
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery = 104.83%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

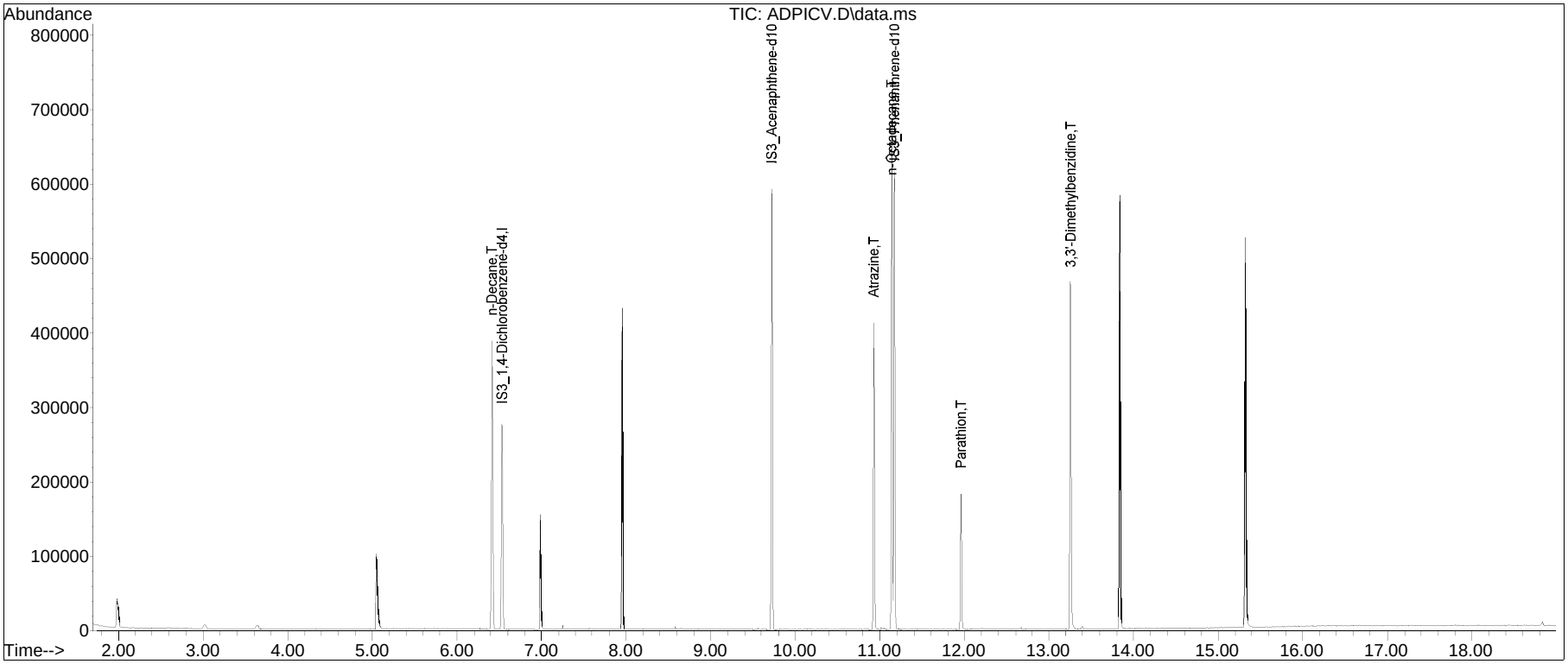
(#) = qualifier out of range (m) = manual integration (+) = signals summed

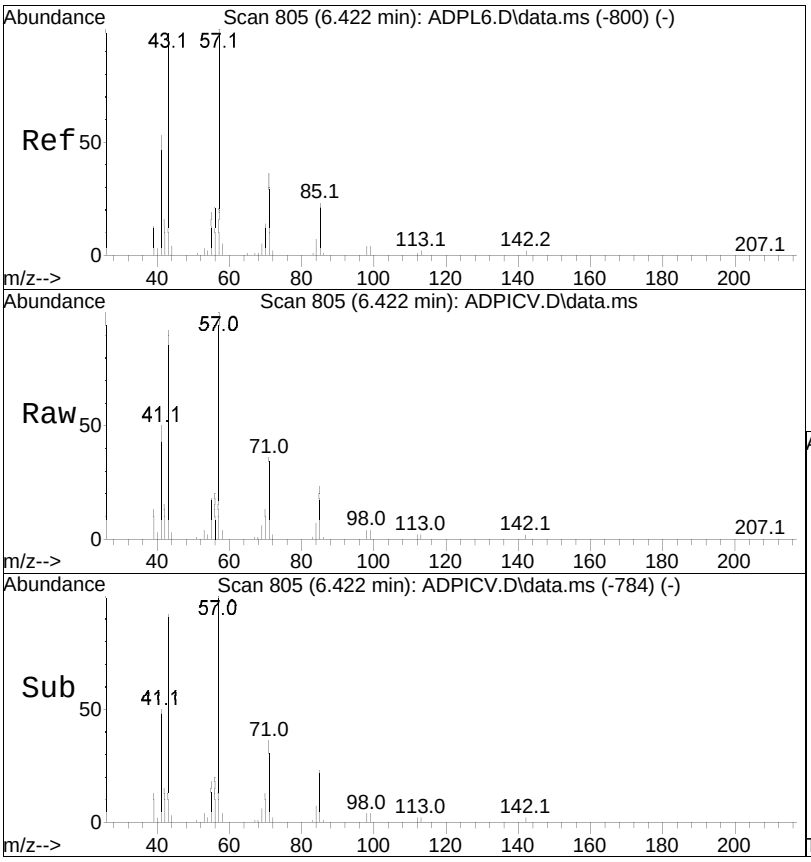
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

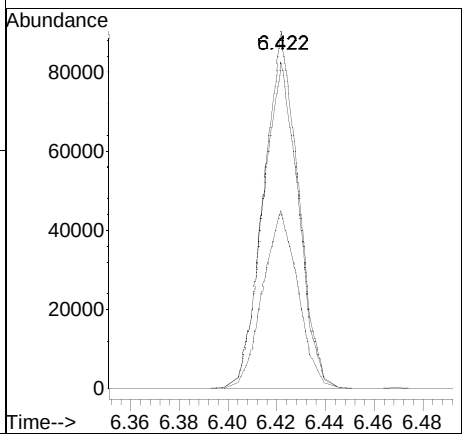


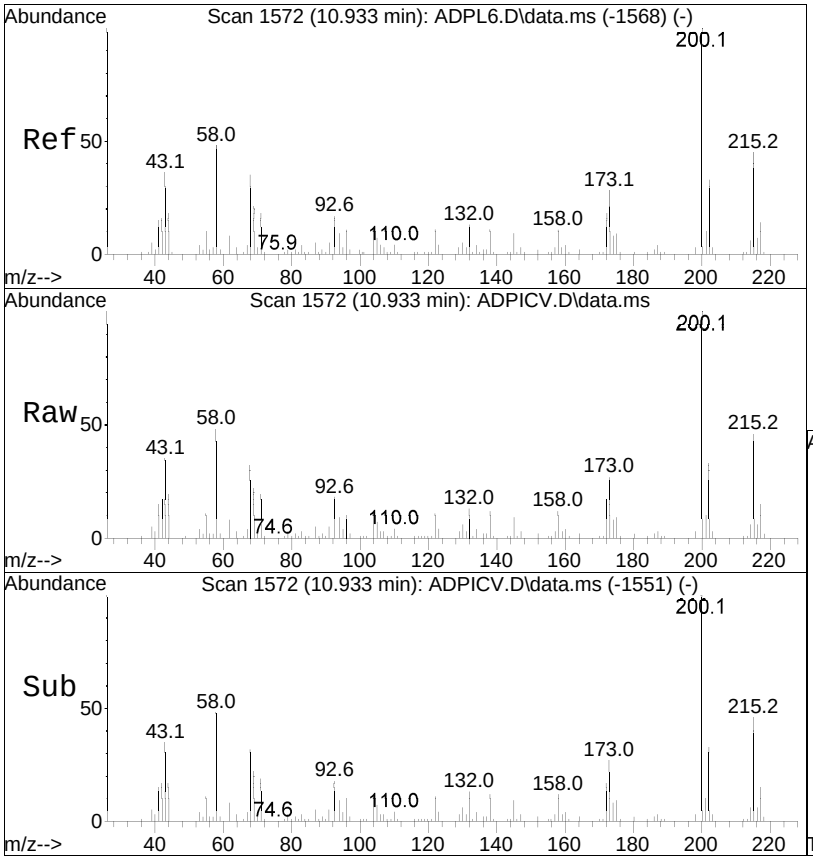


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

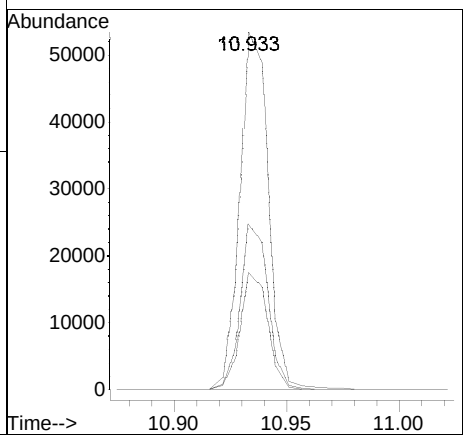


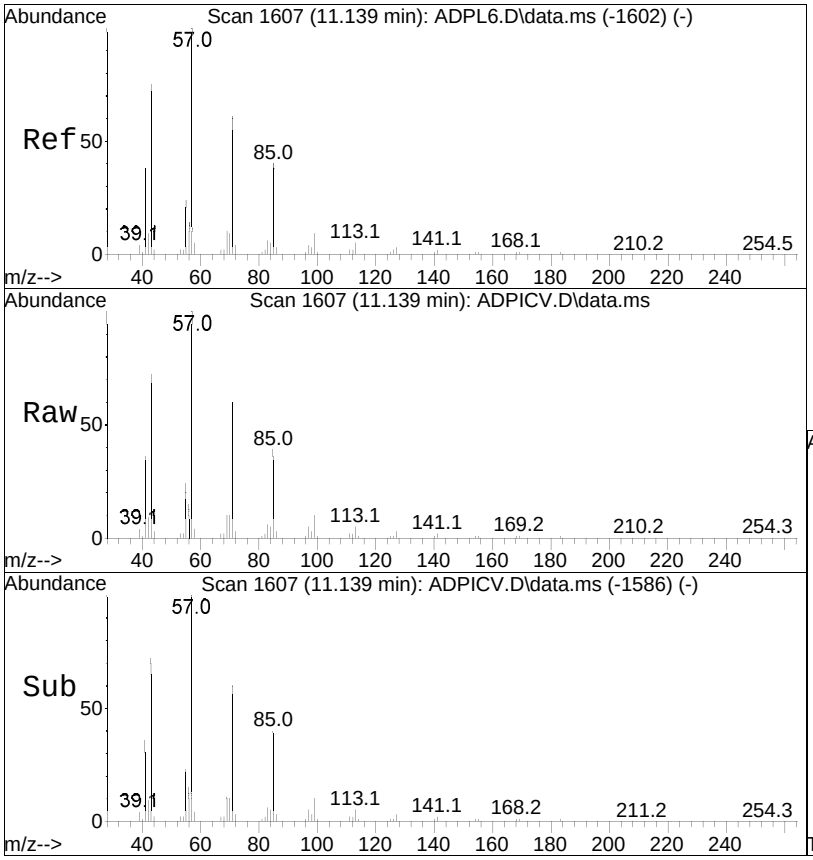


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

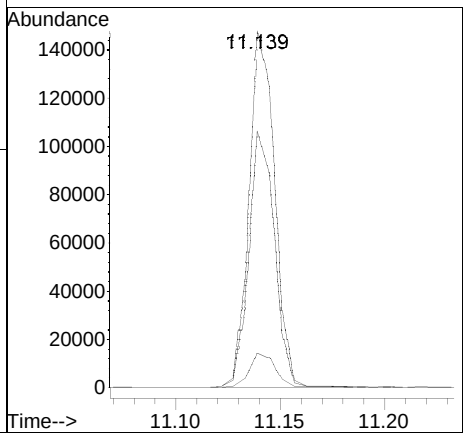


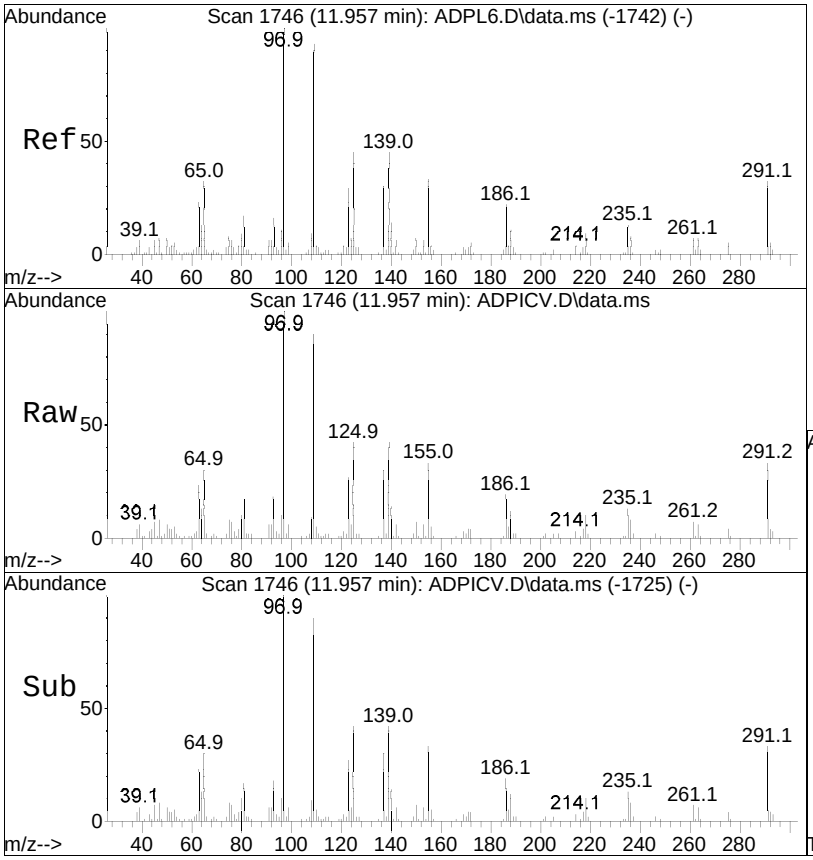


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

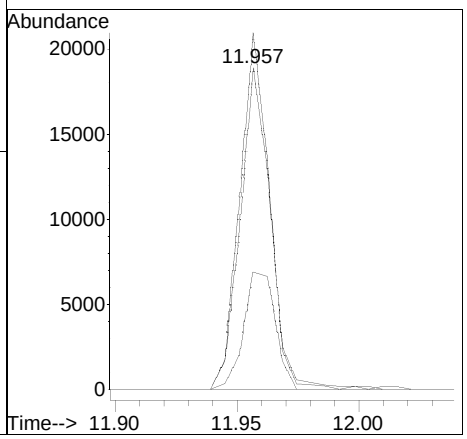


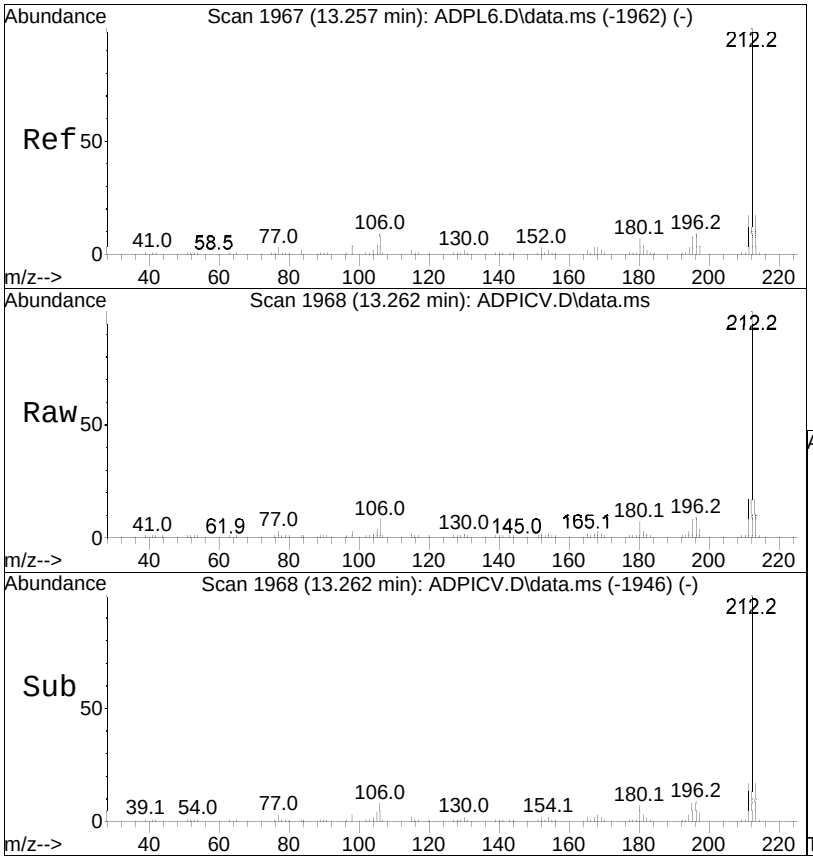


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

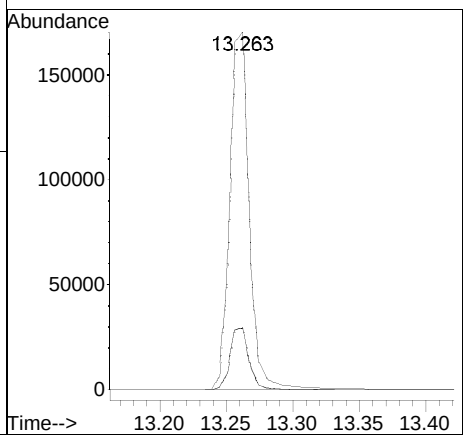




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

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

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36 T	Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65 T	2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67 T	2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75 T	4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83 T	Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84 T	Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96 T	Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101 T	Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107 T	Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108 T	Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36 T	Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65 T	2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67 T	2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75 T	4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83 T	Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84 T	Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96 T	Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101 T	Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107 T	Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108 T	Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
n-Nitrosodimethylamine	0.789	0.848	-	-7.5	20	143	0
Pyridine	1.181	1.141	-	3.4	20	114	0
2-Fluorophenol	1.131	1.156	-	-2.2	20	134	0
Aniline	1.89	1.765	-	6.6	20	122	0
2-Chlorophenol	1.23	1.27	-	-3.3	20	131	0
Phenol-d6	1.461	1.652	-	-13.1	20	144	0
Phenol	1.557	1.646	-	-5.7	20	135	0
Bis(2-chloroethyl)ether	1.229	1.208	-	1.7	20	126	0
1,3-Dichlorobenzene	1.423	1.414	-	0.6	20	130	0
1,4-Dichlorobenzene	1.486	1.436	-	3.4	20	132	0
1,2-Dichlorobenzene	1.357	1.379	-	-1.6	20	133	0
Benzyl alcohol	1.189	1.152	-	3.1	20	122	0
Bis(2-chloroisopropyl)ethe	1.817	1.592	-	12.4	20	113	0
2-Methylphenol	1.108	1.148	-	-3.6	20	135	0
Hexachloroethane	0.606	0.601	-	0.8	20	126	0
n-Nitrosodi-n-propylamine	1.034	0.963	-	6.9	20	117	0
3-Methylphenol/4-Methylphe	1.204	1.202	-	0.2	20	129	0
Nitrobenzene-d5	1.564	1.526	-	2.4	20	124	0
Nitrobenzene	1.505	1.453	-	3.5	20	120	0
Isophorone	2.67	2.598	-	2.7	20	122	0
2-Nitrophenol	0.622	0.688	-	-10.6	20	144	0
2,4-Dimethylphenol	1.261	1.03	-	18.3	20	104	0
Bis(2-chloroethoxy)methane	1.675	1.576	-	5.9	20	123	0
2,4-Dichlorophenol	1.149	1.149	-	0	20	125	0
1,2,4-Trichlorobenzene	1.404	1.346	-	4.1	20	126	0
IS1_Naphthalene-d8	1	1	-	0	20	119	0
Naphthalene	1.066	1.051	-	1.4	20	128	0
Benzoic Acid	5	5.702	-	-14	20	153	0
4-Chloroaniline	0.16	0.148	-	7.5	20	117	0
Hexachlorobutadiene	0.275	0.245	-	10.9	20	117	0
p-Chloro-m-cresol	0.327	0.336	-	-2.8	20	126	0
2-Methylnaphthalene	0.711	0.69	-	3	20	123	0
1-Methylnaphthalene	0.297	0.275	-	7.4	20	121	0
Hexachlorocyclopentadiene	0.273	0.252	-	7.7	20	116	0
2,4,6-Trichlorophenol	0.266	0.284	-	-6.8	20	128	0
2,4,5-Trichlorophenol	0.289	0.3	-	-3.8	20	125	0
2-Fluorobiphenyl	0.928	0.844	-	9.1	20	117	0
2-Chloronaphthalene	0.743	0.688	-	7.4	20	118	0
2-Nitroaniline	0.215	0.237	-	-10.2	20	137	0
1,4-Dinitrobenzene	0.114	0.119	-	-4.4	20	125	0
1,3-Dinitrobenzene	0.13	0.13	-	0	20	120	0
Dimethyl phthalate	0.982	0.925	-	5.8	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.142	-	1.1	20	125	0
2,6-Dinitrotoluene	0.197	0.193	-	2	20	121	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	129	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.293	0.339	-	-15.7	20	134	0
Acenaphthene	0.991	0.988	-	0.3	20	118	0
2,4-Dinitrophenol	5	6.155	-	-23.1*	20	157	0
Dibenzofuran	1.734	1.649	-	4.9	20	118	0
2,4-Dinitrotoluene	0.398	0.432	-	-8.5	20	120	0
4-Nitrophenol	0.314	0.357	-	-13.7	20	123	0
2,3,5,6-Tetrachlorophenol	0.353	0.426	-	-20.7*	20	129	0
2,3,4,6-Tetrachlorophenol	0.346	0.404	-	-16.8	20	129	0
Diethyl phthalate	1.443	1.488	-	-3.1	20	118	0
Fluorene	1.363	1.324	-	2.9	20	117	0
4-Chlorophenyl phenyl ethe	0.717	0.654	-	8.8	20	112	0
4-Nitroaniline	0.287	0.34	-	-18.5	20	131	0
4,6-Dinitro-o-cresol	0.224	0.299	-	-33.5*	20	149	0
NDPA/DPA	1.122	1.115	-	0.6	20	116	0
Azobenzene	1.43	1.267	-	11.4	20	105	0
2,4,6-Tribromophenol	0.213	0.232	-	-8.9	20	124	0
4-Bromophenyl phenyl ether	0.427	0.393	-	8	20	110	0
Hexachlorobenzene	0.494	0.45	-	8.9	20	113	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	134	0
IS1_Phenanthrene-d10	1	1	-	0	20	108	0
Phenanthrene	0.988	0.951	-	3.7	20	117	0
Anthracene	0.977	0.983	-	-0.6	20	119	0
Carbazole	0.894	0.948	-	-6	20	121	0
Di-n-butylphthalate	1.089	1.203	-	-10.5	20	124	0
Fluoranthene	1.131	1.147	-	-1.4	20	118	0
Benzidine	0.648	0.779	-	-20.2*	20	128	0
Pyrene	1.194	1.225	-	-2.6	20	121	0
4-Terphenyl-d14	0.861	0.83	-	3.6	20	114	0
Butyl benzyl phthalate	0.463	0.589	-	-27.2*	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.294	1.343	-	-3.8	20	127	0
3,3'-Dichlorobenzidine	0.446	0.516	-	-15.7	20	137	0
Chrysene	1.277	1.232	-	3.5	20	121	0
Bis(2-ethylhexyl)phthalate	0.767	0.947	-	-23.5*	20	146	0
Di-n-octylphthalate	1.257	1.659	-	-32*	20	155	0
Benzo(b)fluoranthene	1.181	1.228	-	-4	20	119	0
Benzo(k)fluoranthene	1.154	1.268	-	-9.9	20	140	0
Benzo(a)pyrene	1.058	1.195	-	-12.9	20	136	0
IS1_Perylene-d12	1	1	-	0	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.041	-	-5.9	20	139	0
Dibenzo(a,h)anthracene	0.935	0.994	-	-6.3	20	136	0
Benzo(ghi)perylene	0.923	1.013	-	-9.8	20	143	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:30		
Lab File ID	: ADP0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Decane	1.537	1.364	-	11.3	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	102	0
Atrazine	0.403	0.419	-	-4	20	109	0
IS3_Phenanthrene-d10	1	1	-	0	20	99	0
n-Octadecane	0.44	0.42	-	4.5	20	96	0
Parathion	0.121	0.139	-	-14.9	20	127	0
3,3'-Dimethylbenzidine	5	4.992	-	0.2	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:54		
Lab File ID	: AP90616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	1.095	1.294	-	-18.2	20	140	0
Acetophenone	1.981	2.234	-	-12.8	20	130	0
m-Toluidine	1.685	2.115	-	-25.5*	20	133	0
2-Chloroaniline	1.619	1.892	-	-16.9	20	131	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.33	0.378	-	-14.5	20	125	0
3-Chloroaniline	0.181	0.21	-	-16	20	120	0
2,6-Dichlorophenol	0.3	0.361	-	-20.3*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.195	-	-13.4	20	131	0
Caprolactam	0.176	0.195	-	-10.8	20	123	0
1,2,4,5-Tetrachlorobenzene	0.461	0.491	-	-6.5	20	120	0
Biphenyl	0.901	0.999	-	-10.9	20	120	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.191	0.24	-	-25.7*	20	131	0
Pentachloronitrobenzene	0.232	0.282	-	-21.6*	20	133	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.451	0.559	-	-23.9*	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:12		
Lab File ID	: AP90618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
Benzaldehyde	1.095	1.28	-	-16.9	20	151	0
Acetophenone	1.981	2.198	-	-11	20	140	0
m-Toluidine	1.685	2.112	-	-25.3*	20	144	0
2-Chloroaniline	1.619	1.864	-	-15.1	20	141	0
IS2_Naphthalene-d8	1	1	-	0	20	113	0
a-Terpineol	0.33	0.386	-	-17	20	141	0
3-Chloroaniline	0.181	0.207	-	-14.4	20	130	0
2,6-Dichlorophenol	0.3	0.371	-	-23.7*	20	151	0
1-chloro-2-nitrobenzene	0.172	0.194	-	-12.8	20	144	0
Caprolactam	0.176	0.204	-	-15.9	20	142	0
1,2,4,5-Tetrachlorobenzene	0.461	0.48	-	-4.1	20	129	0
Biphenyl	0.901	0.986	-	-9.4	20	131	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	0.191	0.25	-	-30.9*	20	149	0
Pentachloronitrobenzene	0.232	0.295	-	-27.2*	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.451	0.587	-	-30.2*	20	145	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.857	-	-8.6	20	109	0
Pyridine	1.181	1.309	-	-10.8	20	99	0
2-Fluorophenol	1.131	1.206	-	-6.6	20	106	0
Aniline	1.89	1.831	-	3.1	20	95	0
2-Chlorophenol	1.23	1.339	-	-8.9	20	104	0
Phenol-d6	1.461	1.707	-	-16.8	20	112	0
Phenol	1.557	1.701	-	-9.2	20	105	0
Bis(2-chloroethyl)ether	1.229	1.236	-	-0.6	20	97	0
1,3-Dichlorobenzene	1.423	1.463	-	-2.8	20	101	0
1,4-Dichlorobenzene	1.486	1.464	-	1.5	20	101	0
1,2-Dichlorobenzene	1.357	1.425	-	-5	20	103	0
Benzyl alcohol	1.189	1.205	-	-1.3	20	96	0
Bis(2-chloroisopropyl)ethe	1.817	1.648	-	9.3	20	88	0
2-Methylphenol	1.108	1.163	-	-5	20	103	0
Hexachloroethane	0.606	0.619	-	-2.1	20	98	0
n-Nitrosodi-n-propylamine	1.034	0.988	-	4.4	20	90	0
3-Methylphenol/4-Methylphe	1.204	1.25	-	-3.8	20	101	0
Nitrobenzene-d5	1.564	1.585	-	-1.3	20	97	0
Nitrobenzene	1.505	1.538	-	-2.2	20	95	0
Isophorone	2.67	2.61	-	2.2	20	93	0
2-Nitrophenol	0.622	0.713	-	-14.6	20	112	0
2,4-Dimethylphenol	1.261	1.057	-	16.2	20	80	0
Bis(2-chloroethoxy)methane	1.675	1.647	-	1.7	20	97	0
2,4-Dichlorophenol	1.149	1.165	-	-1.4	20	96	0
1,2,4-Trichlorobenzene	1.404	1.372	-	2.3	20	97	0
IS1_Naphthalene-d8	1	1	-	0	20	91	0
Naphthalene	1.066	1.064	-	0.2	20	98	0
Benzoic Acid	5	5.473	-	-9.5	20	112	0
4-Chloroaniline	0.16	0.152	-	5	20	91	0
Hexachlorobutadiene	0.275	0.248	-	9.8	20	90	0
p-Chloro-m-cresol	0.327	0.334	-	-2.1	20	95	0
2-Methylnaphthalene	0.711	0.683	-	3.9	20	93	0
1-Methylnaphthalene	0.297	0.28	-	5.7	20	94	0
Hexachlorocyclopentadiene	0.273	0.249	-	8.8	20	87	0
2,4,6-Trichlorophenol	0.266	0.275	-	-3.4	20	94	0
2,4,5-Trichlorophenol	0.289	0.294	-	-1.7	20	93	0
2-Fluorobiphenyl	0.928	0.851	-	8.3	20	89	0
2-Chloronaphthalene	0.743	0.691	-	7	20	90	0
2-Nitroaniline	0.215	0.239	-	-11.2	20	105	0
1,4-Dinitrobenzene	0.114	0.124	-	-8.8	20	99	0
1,3-Dinitrobenzene	0.13	0.139	-	-6.9	20	97	0
Dimethyl phthalate	0.982	0.915	-	6.8	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.156	-	-0.1	20	96	0
2,6-Dinitrotoluene	0.197	0.204	-	-3.6	20	97	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	82	0
3-Nitroaniline	0.293	0.349	-	-19.1	20	104	0
Acenaphthene	0.991	1.018	-	-2.7	20	91	0
2,4-Dinitrophenol	5	6.198	-	-24*	20	119	0
Dibenzofuran	1.734	1.682	-	3	20	91	0
2,4-Dinitrotoluene	0.398	0.453	-	-13.8	20	94	0
4-Nitrophenol	0.314	0.379	-	-20.7*	20	98	0
2,3,5,6-Tetrachlorophenol	0.353	0.425	-	-20.4*	20	97	0
2,3,4,6-Tetrachlorophenol	0.346	0.397	-	-14.7	20	96	0
Diethyl phthalate	1.443	1.502	-	-4.1	20	90	0
Fluorene	1.363	1.351	-	0.9	20	90	0
4-Chlorophenyl phenyl ethe	0.717	0.662	-	7.7	20	85	0
4-Nitroaniline	0.287	0.366	-	-27.5*	20	106	0
4,6-Dinitro-o-cresol	0.224	0.294	-	-31.2*	20	110	0
NDPA/DPA	1.122	1.14	-	-1.6	20	89	0
Azobenzene	1.43	1.343	-	6.1	20	84	0
2,4,6-Tribromophenol	0.213	0.23	-	-8	20	92	0
4-Bromophenyl phenyl ether	0.427	0.392	-	8.2	20	82	0
Hexachlorobenzene	0.494	0.457	-	7.5	20	86	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	101	0
IS1_Phenanthrene-d10	1	1	-	0	20	79	0
Phenanthrene	0.988	0.997	-	-0.9	20	89	0
Anthracene	0.977	1.002	-	-2.6	20	89	0
Carbazole	0.894	1.001	-	-12	20	94	0
Di-n-butylphthalate	1.089	1.256	-	-15.3	20	95	0
Fluoranthene	1.131	1.1	-	2.7	20	83	0
Benzidine	0.648	0.878	-	-35.5*	20	105	0
Pyrene	1.194	1.301	-	-9	20	93	0
4-Terphenyl-d14	0.861	0.871	-	-1.2	20	87	0
Butyl benzyl phthalate	0.463	0.641	-	-38.4*	20	114	0
IS1_Chrysene-d12	1	1	-	0	20	88	0
Benzo(a)anthracene	1.294	1.365	-	-5.5	20	100	0
3,3'-Dichlorobenzidine	0.446	0.536	-	-20.2*	20	110	0
Chrysene	1.277	1.32	-	-3.4	20	100	0
Bis(2-ethylhexyl)phthalate	0.767	0.982	-	-28*	20	117	0
Di-n-octylphthalate	1.257	1.742	-	-38.6*	20	126	0
Benzo(b)fluoranthene	1.181	1.436	-	-21.6*	20	108	0
Benzo(k)fluoranthene	1.154	1.17	-	-1.4	20	100	0
Benzo(a)pyrene	1.058	1.266	-	-19.7	20	112	0
IS1_Perylene-d12	1	1	-	0	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.032	-	-5	20	111	0
Dibenzo(a,h)anthracene	0.935	1.031	-	-10.3	20	113	0
Benzo(ghi)perylene	0.923	1.014	-	-9.9	20	115	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 11:00		
Lab File ID	: ADP0618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	-.05
n-Decane	1.53738	0.00766	-	99.5*	20	1	.01
IS3_Acenaphthene-d10	1	1	-	0	20	80	-.03
Atrazine	0.403	0.446	-	-10.7	20	91	-.03
IS3_Phenanthrene-d10	1	1	-	0	20	84	-.03
n-Octadecane	0.44	0.416	-	5.5	20	81	-.03
Parathion	0.121	0.135	-	-11.6	20	105	-.03
3,3'-Dimethylbenzidine	5	5.425	-	-8.5	20	110	-.04

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 08:51		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.095	1.178	-	-7.6	20	123	0
Acetophenone	1.981	1.957	-	1.2	20	110	0
m-Toluidine	1.685	1.987	-	-17.9	20	121	0
2-Chloroaniline	1.619	1.858	-	-14.8	20	125	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.33	0.249	-	24.5*	20	81	0
3-Chloroaniline	0.181	0.157	-	13.3	20	88	0
2,6-Dichlorophenol	0.3	0.365	-	-21.7*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.169	-	1.7	20	113	0
Caprolactam	0.176	0.132	-	25*	20	82	0
1,2,4,5-Tetrachlorobenzene	0.461	0.494	-	-7.2	20	119	0
Biphenyl	0.901	1.004	-	-11.4	20	119	0
IS2_Acenaphthene-d10	1	1	-	0	20	104	0
Dichloran	0.191	0.257	-	-34.6*	20	145	0
Pentachloronitrobenzene	0.232	0.277	-	-19.4	20	135	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.451	0.549	-	-21.7*	20	127	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.654	-	17.1	20	83	0
Pyridine	1.181	1.111	-	5.9	20	84	0
2-Fluorophenol	1.131	1.074	-	5	20	94	0
Aniline	1.89	1.624	-	14.1	20	85	0
2-Chlorophenol	1.23	1.217	-	1.1	20	94	0
Phenol-d6	1.461	1.445	-	1.1	20	95	0
Phenol	1.557	1.418	-	8.9	20	88	0
Bis(2-chloroethyl)ether	1.229	0.961	-	21.8*	20	75	0
1,3-Dichlorobenzene	1.423	1.427	-	-0.3	20	99	0
1,4-Dichlorobenzene	1.486	1.457	-	2	20	101	0
1,2-Dichlorobenzene	1.357	1.361	-	-0.3	20	99	0
Benzyl alcohol	1.189	0.955	-	19.7	20	76	0
Bis(2-chloroisopropyl)ethe	1.817	0.879	-	51.6*	20	47	0
2-Methylphenol	1.108	1.022	-	7.8	20	91	0
Hexachloroethane	0.606	0.528	-	12.9	20	83	0
n-Nitrosodi-n-propylamine	1.034	0.725	-	29.9*	20	66	0
3-Methylphenol/4-Methylphe	1.204	1.165	-	3.2	20	94	0
Nitrobenzene-d5	1.564	1.2	-	23.3*	20	73	0
Nitrobenzene	1.505	1.175	-	21.9*	20	73	0
Isophorone	2.67	1.979	-	25.9*	20	70	0
2-Nitrophenol	0.622	0.687	-	-10.5	20	108	0
2,4-Dimethylphenol	1.261	1.006	-	20.2*	20	76	0
Bis(2-chloroethoxy)methane	1.675	1.255	-	25.1*	20	74	0
2,4-Dichlorophenol	1.149	1.144	-	0.4	20	94	0
1,2,4-Trichlorobenzene	1.404	1.352	-	3.7	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.066	1.028	-	3.6	20	94	0
Benzoic Acid	5	4.785	-	4.3	20	96	0
4-Chloroaniline	0.16	0.117	-	26.9*	20	69	0
Hexachlorobutadiene	0.275	0.251	-	8.7	20	90	0
p-Chloro-m-cresol	0.327	0.286	-	12.5	20	81	0
2-Methylnaphthalene	0.711	0.709	-	0.3	20	95	0
1-Methylnaphthalene	0.297	0.254	-	14.5	20	84	0
Hexachlorocyclopentadiene	0.273	0.307	-	-12.5	20	106	0
2,4,6-Trichlorophenol	0.266	0.286	-	-7.5	20	97	0
2,4,5-Trichlorophenol	0.289	0.297	-	-2.8	20	93	0
2-Fluorobiphenyl	0.928	0.863	-	7	20	90	0
2-Chloronaphthalene	0.743	0.695	-	6.5	20	89	0
2-Nitroaniline	0.215	0.229	-	-6.5	20	99	0
1,4-Dinitrobenzene	0.114	0.121	-	-6.1	20	95	0
1,3-Dinitrobenzene	0.13	0.133	-	-2.3	20	92	0
Dimethyl phthalate	0.982	0.886	-	9.8	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.117	-	3.3	20	91	0
2,6-Dinitrotoluene	0.197	0.195	-	1	20	91	0
1,2-Dinitrobenzene	0.078	0.081	-	-3.8	20	94	0
IS1_Acenaphthene-d10	1	1	-	0	20	83	0
3-Nitroaniline	0.293	0.325	-	-10.9	20	97	0
Acenaphthene	0.991	1.01	-	-1.9	20	91	0
2,4-Dinitrophenol	5	6.319	-	-26.4*	20	122	0
Dibenzofuran	1.734	1.636	-	5.7	20	88	0
2,4-Dinitrotoluene	0.398	0.415	-	-4.3	20	87	0
4-Nitrophenol	0.314	0.269	-	14.3	20	70	0
2,3,5,6-Tetrachlorophenol	0.353	0.441	-	-24.9*	20	101	0
2,3,4,6-Tetrachlorophenol	0.346	0.407	-	-17.6	20	98	0
Diethyl phthalate	1.443	1.357	-	6	20	81	0
Fluorene	1.363	1.316	-	3.4	20	88	0
4-Chlorophenyl phenyl ethe	0.717	0.684	-	4.6	20	88	0
4-Nitroaniline	0.287	0.321	-	-11.8	20	93	0
4,6-Dinitro-o-cresol	0.224	0.292	-	-30.4*	20	110	0
NDPA/DPA	1.122	1.108	-	1.2	20	87	0
Azobenzene	1.43	0.985	-	31.1*	20	62	0
2,4,6-Tribromophenol	0.213	0.254	-	-19.2	20	102	0
4-Bromophenyl phenyl ether	0.427	0.413	-	3.3	20	87	0
Hexachlorobenzene	0.494	0.51	-	-3.2	20	96	0
Pentachlorophenol	0.288	0.358	-	-24.3*	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	80	0
Phenanthrene	0.988	0.949	-	3.9	20	86	0
Anthracene	0.977	0.974	-	0.3	20	87	0
Carbazole	0.894	0.926	-	-3.6	20	88	0
Di-n-butylphthalate	1.089	1.139	-	-4.6	20	87	0
Fluoranthene	1.131	1.143	-	-1.1	20	87	0
Benzidine	0.648	0.789	-	-21.8*	20	96	0
Pyrene	1.194	1.242	-	-4	20	91	0
4-Terphenyl-d14	0.861	0.863	-	-0.2	20	88	0
Butyl benzyl phthalate	0.463	0.532	-	-14.9	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	86	0
Benzo(a)anthracene	1.294	1.327	-	-2.6	20	95	0
3,3'-Dichlorobenzidine	0.446	0.513	-	-15	20	103	0
Chrysene	1.277	1.231	-	3.6	20	92	0
Bis(2-ethylhexyl)phthalate	0.767	0.874	-	-14	20	102	0
Di-n-octylphthalate	1.257	1.571	-	-25*	20	111	0
Benzo(b)fluoranthene	1.181	1.383	-	-17.1	20	102	0
Benzo(k)fluoranthene	1.154	1.236	-	-7.1	20	103	0
Benzo(a)pyrene	1.058	1.292	-	-22.1*	20	112	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.12	-	-13.9	20	124	0
Dibenzo(a,h)anthracene	0.935	1.098	-	-17.4	20	124	0
Benzo(ghi)perylene	0.923	1.056	-	-14.4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:39		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Decane	1.537	0.919	-	40.2*	20	67	0
IS3_Acenaphthene-d10	1	1	-	0	20	105	0
Atrazine	0.403	0.422	-	-4.7	20	113	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.44	0.285	-	35.2*	20	65	0
Parathion	0.121	0.122	-	-0.8	20	111	0
3,3'-Dimethylbenzidine	5	5.199	-	-4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	111	0
n-Nitrosodimethylamine	0.704	0.761	-	-8.1	20	122	0
Pyridine	1.199	1.157	-	3.5	20	111	0
2-Fluorophenol	1.069	1.075	-	-0.6	20	115	0
Aniline	1.713	1.697	-	0.9	20	115	0
2-Chlorophenol	1.178	1.204	-	-2.2	20	118	0
Phenol-d6	1.322	1.361	-	-3	20	119	0
Phenol	1.438	1.482	-	-3.1	20	121	0
Bis(2-chloroethyl)ether	1.185	1.206	-	-1.8	20	122	0
1,3-Dichlorobenzene	1.452	1.439	-	0.9	20	117	0
1,4-Dichlorobenzene	1.478	1.473	-	0.3	20	118	0
1,2-Dichlorobenzene	1.426	1.404	-	1.5	20	116	0
Benzyl alcohol	1	0.976	-	2.4	20	114	0
Bis(2-chloroisopropyl)ethe	1.623	1.719	-	-5.9	20	127	0
2-Methylphenol	1.031	1.029	-	0.2	20	115	0
Hexachloroethane	0.545	0.566	-	-3.9	20	121	0
n-Nitrosodi-n-propylamine	0.879	0.857	-	2.5	20	114	0
3-Methylphenol/4-Methylphe	1.084	1.102	-	-1.7	20	113	0
Nitrobenzene-d5	1.165	1.28	-	-9.9	20	123	0
Nitrobenzene	1.197	1.314	-	-9.8	20	123	0
Isophorone	2.31	2.22	-	3.9	20	109	0
2-Nitrophenol	0.533	0.571	-	-7.1	20	127	0
2,4-Dimethylphenol	1.088	0.953	-	12.4	20	100	0
Bis(2-chloroethoxy)methane	1.508	1.515	-	-0.5	20	119	0
2,4-Dichlorophenol	1.094	1.117	-	-2.1	20	113	0
1,2,4-Trichlorobenzene	1.318	1.27	-	3.6	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.996	0.972	-	2.4	20	118	0
Benzoic Acid	5	5.412	-	-8.2	20	134	0
4-Chloroaniline	0.126	0.125	-	0.8	20	118	0
Hexachlorobutadiene	0.211	0.204	-	3.3	20	117	0
p-Chloro-m-cresol	0.272	0.264	-	2.9	20	108	0
2-Methylnaphthalene	0.688	0.66	-	4.1	20	113	0
1-Methylnaphthalene	0.235	0.234	-	0.4	20	119	0
Hexachlorocyclopentadiene	0.205	0.206	-	-0.5	20	118	0
2,4,6-Trichlorophenol	0.237	0.229	-	3.4	20	106	0
2,4,5-Trichlorophenol	0.251	0.246	-	2	20	108	0
2-Fluorobiphenyl	0.866	0.791	-	8.7	20	108	0
2-Chloronaphthalene	0.715	0.662	-	7.4	20	110	0
2-Nitroaniline	0.173	0.179	-	-3.5	20	115	0
1,4-Dinitrobenzene	0.087	0.094	-	-8	20	139	0
1,3-Dinitrobenzene	0.109	0.109	-	0	20	124	0
Dimethyl phthalate	0.839	0.773	-	7.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.027	-	4.8	20	110	0
2,6-Dinitrotoluene	0.153	0.157	-	-2.6	20	111	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	113	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.259	0.296	-	-14.3	20	119	0
Acenaphthene	1.081	1.042	-	3.6	20	110	0
2,4-Dinitrophenol	5	5.367	-	-7.3	20	138	0
Dibenzofuran	1.757	1.703	-	3.1	20	109	0
2,4-Dinitrotoluene	5	4.815	-	3.7	20	117	0
4-Nitrophenol	0.221	0.248	-	-12.2	20	123	0
2,3,5,6-Tetrachlorophenol	0.318	0.334	-	-5	20	107	0
2,3,4,6-Tetrachlorophenol	0.314	0.321	-	-2.2	20	103	0
Diethyl phthalate	1.301	1.236	-	5	20	106	0
Fluorene	1.328	1.29	-	2.9	20	108	0
4-Chlorophenyl phenyl ethe	0.672	0.643	-	4.3	20	108	0
4-Nitroaniline	0.262	0.282	-	-7.6	20	116	0
4,6-Dinitro-o-cresol	5	4.762	-	4.8	20	128	0
NDPA/DPA	1.131	1.107	-	2.1	20	108	0
Azobenzene	1.259	1.261	-	-0.2	20	108	0
2,4,6-Tribromophenol	0.171	0.154	-	9.9	20	90	0
4-Bromophenyl phenyl ether	0.376	0.328	-	12.8	20	98	0
Hexachlorobenzene	0.431	0.355	-	17.6	20	94	0
Pentachlorophenol	0.252	0.231	-	8.3	20	100	0
IS1_Phenanthrene-d10	1	1	-	0	20	98	0
Phenanthrene	1.038	1.02	-	1.7	20	106	0
Anthracene	1.03	1.032	-	-0.2	20	108	0
Carbazole	0.928	0.916	-	1.3	20	102	0
Di-n-butylphthalate	1.088	1.002	-	7.9	20	94	0
Fluoranthene	1.186	1.154	-	2.7	20	104	0
Benzidine	0.721	0.624	-	13.5	20	91	0
Pyrene	1.269	1.255	-	1.1	20	106	0
4-Terphenyl-d14	0.875	0.778	-	11.1	20	96	0
Butyl benzyl phthalate	5	4.039	-	19.2	20	95	0
IS1_Chrysene-d12	1	1	-	0	20	90	0
Benzo(a)anthracene	1.335	1.296	-	2.9	20	96	0
3,3'-Dichlorobenzidine	0.43	0.429	-	0.2	20	89	0
Chrysene	1.276	1.295	-	-1.5	20	100	0
Bis(2-ethylhexyl)phthalate	5	4.4	-	12	20	92	0
Di-n-octylphthalate	5	4.131	-	17.4	20	89	0
Benzo(b)fluoranthene	1.178	1.166	-	1	20	95	0
Benzo(k)fluoranthene	1.154	1.101	-	4.6	20	90	0
Benzo(a)pyrene	1.025	1.044	-	-1.9	20	96	0
IS1_Perylene-d12	1	1	-	0	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.017	-	-6.8	20	95	0
Dibenzo(a,h)anthracene	0.953	1.049	-	-10.1	20	90	0
Benzo(ghi)perylene	0.928	0.993	-	-7	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:32		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
Benzaldehyde	1.024	1.156	-	-12.9	20	141	0
Acetophenone	1.77	1.995	-	-12.7	20	137	0
m-Toluidine	1.599	1.951	-	-22*	20	140	0
2-Chloroaniline	1.546	1.774	-	-14.7	20	138	0
IS2_Naphthalene-d8	1	1	-	0	20	111	0
a-Terpineol	0.276	0.329	-	-19.2	20	142	0
3-Chloroaniline	0.147	0.182	-	-23.8*	20	146	0
2,6-Dichlorophenol	0.29	0.356	-	-22.8*	20	141	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	156	0
Caprolactam	0.149	0.177	-	-18.8	20	139	0
1,2,4,5-Tetrachlorobenzene	0.402	0.434	-	-8	20	131	0
Biphenyl	0.929	1.025	-	-10.3	20	134	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	6.082	-	-21.6*	20	166	0
Pentachloronitrobenzene	5	5.875	-	-17.5	20	148	0
IS2_Phenanthrene-d10	1	1	-	0	20	107	0
Diphenamid	0.445	0.475	-	-6.7	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:58		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
n-Decane	1.447	1.366	-	5.6	20	115	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.347	0.339	-	2.3	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	106	0
n-Octadecane	0.393	0.365	-	7.1	20	97	0
Parathion	5	4.557	-	8.9	20	107	0
3,3'-Dimethylbenzidine	0.696	0.553	-	20.5*	20	88	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	122	0.00
2	t	n-Nitrosodimethylamine		0.789	0.848	-7.5	143	0.00
3	t	Pyridine		1.181	1.141	3.4	114	0.00
4	S	2-Fluorophenol		1.131	1.156	-2.2	134	0.00
5	T	Aniline		1.890	1.765	6.6	122	0.00
6	t	2-Chlorophenol		1.230	1.270	-3.3	131	0.00
7	S	Phenol-d6		1.461	1.652	-13.1	144	0.00
8	T	Phenol		1.557	1.646	-5.7	135	0.00
9	T	Bis(2-chloroethyl)ether		1.229	1.208	1.7	126	0.00
10	T	1,3-Dichlorobenzene		1.423	1.414	0.6	130	0.00
11	T	1,4-Dichlorobenzene		1.486	1.436	3.4	132	0.00
12	T	1,2-Dichlorobenzene		1.357	1.379	-1.6	133	0.00
13	t	Benzyl alcohol		1.189	1.152	3.1	122	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	1.592	12.4	113	0.00
15	T	2-Methylphenol		1.108	1.148	-3.6	135	0.00
16	T	Hexachloroethane		0.606	0.601	0.8	126	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	0.963	6.9	117	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.202	0.2	129	0.00
19	S	Nitrobenzene-d5		1.564	1.526	2.4	124	0.00
20	T	Nitrobenzene		1.505	1.453	3.5	120	0.00
21	T	Isophorone		2.670	2.598	2.7	122	0.00
22	T	2-Nitrophenol		0.622	0.688	-10.6	144	0.00
23	T	2,4-Dimethylphenol		1.261	1.030	18.3	104	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.576	5.9	123	0.00
25	T	2,4-Dichlorophenol		1.149	1.149	0.0	125	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.346	4.1	126	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	119	0.00
35	T	Naphthalene		1.066	1.051	1.4	128	0.00
36	T	Benzoic Acid	*	5.000	5.702	-14.0	153	0.00
37	T	4-Chloroaniline		0.160	0.148	7.5	117	0.00
38	T	Hexachlorobutadiene		0.275	0.245	10.9	117	0.00
39	T	p-Chloro-m-cresol		0.327	0.336	-2.8	126	0.00
40	T	2-Methylnaphthalene		0.711	0.690	3.0	123	0.00
41	T	1-Methylnaphthalene		0.297	0.275	7.4	121	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.252	7.7	116	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.284	-6.8	128	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.300	-3.8	125	0.00
45	S	2-Fluorobiphenyl		0.928	0.844	9.1	117	0.00

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.688	7.4	118	0.00
47	T	2-Nitroaniline		0.215	0.237	-10.2	137	0.00
48	T	1,4-Dinitrobenzene		0.114	0.119	-4.4	125	0.00
49	T	1,3-Dinitrobenzene		0.130	0.130	0.0	120	0.00
50	T	Dimethyl phthalate		0.982	0.925	5.8	118	0.00
51	T	Acenaphthylene		1.155	1.142	1.1	125	0.00
52	T	2,6-Dinitrotoluene		0.197	0.193	2.0	121	0.00
53	T	1,2-Dinitrobenzene		0.078	0.084	-7.7	129	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	110	0.00
63	T	3-Nitroaniline		0.293	0.339	-15.7	134	0.00
64	T	Acenaphthene		0.991	0.988	0.3	118	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.155	-23.1#	157	0.00
66	T	Dibenzofuran		1.734	1.649	4.9	118	0.00
67	T	2,4-Dinitrotoluene		0.398	0.432	-8.5	120	0.00
68	T	4-Nitrophenol		0.314	0.357	-13.7	123	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.426	-20.7#	129	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.404	-16.8	129	0.00
71	T	Diethyl phthalate		1.443	1.488	-3.1	118	0.00
72	T	Fluorene		1.363	1.324	2.9	117	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.654	8.8	112	0.00
74	T	4-Nitroaniline		0.287	0.340	-18.5	131	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.299	-33.5#	149	0.00
76	T	NDPA/DPA		1.122	1.115	0.6	116	0.00
77	T	Azobenzene		1.430	1.267	11.4	105	0.00
78	S	2,4,6-Tribromophenol		0.213	0.232	-8.9	124	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.393	8.0	110	0.00
80	T	Hexachlorobenzene		0.494	0.450	8.9	113	0.00
81	T	Pentachlorophenol		0.288	0.341	-18.4	134	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	108	0.00
88	T	Phenanthrene		0.988	0.951	3.7	117	0.00
89	T	Anthracene		0.977	0.983	-0.6	119	0.00
90	T	Carbazole		0.894	0.948	-6.0	121	0.00
91	T	Di-n-butylphthalate		1.089	1.203	-10.5	124	0.00
92	T	Fluoranthene		1.131	1.147	-1.4	118	0.00
93	T	Benzidine		0.648	0.779	-20.2	128	0.00
94	T	Pyrene		1.194	1.225	-2.6	121	0.00
95	S	4-Terphenyl-d14		0.861	0.830	3.6	114	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.589	-27.2#	143	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	113	0.00
104	T	Benzo(a)anthracene	1.294	1.343	-3.8	127	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.516	-15.7	137	0.00
106	T	Chrysene	1.277	1.232	3.5	121	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	0.947	-23.5#	146	0.00
108	T	Di-n-octylphthalate	1.257	1.659	-32.0#	155	0.00
109	T	Benzo(b)fluoranthene	1.181	1.228	-4.0	119	0.00
110	T	Benzo(k)fluoranthene	1.154	1.268	-9.9	140	0.00
111	T	Benzo(a)pyrene	1.058	1.195	-12.9	136	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	119	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.041	-5.9	139	0.00
114	T	Dibenzo(a,h)anthracene	0.935	0.994	-6.3	136	0.00
115	T	Benzo(ghi)perylene	0.923	1.013	-9.8	143	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.966	152	78956	4.000	ug/ml		0.00
34) IS1_Naphthalene-d8	6.689	136	280857	4.000	ug/ml	#	0.00
62) IS1_Acenaphthene-d10	8.472	164	178144	4.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	9.871	188	382454	4.000	ug/ml		0.00
103) IS1_Chrysene-d12	12.371	240	352521	4.000	ug/ml		0.00
112) IS1_Perylene-d12	13.706	264	391116	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	2.072	112	114083	5.111	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 255.55%#				
7) Phenol-d6	4.536	99	163018	5.653	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 282.65%#				
19) Nitrobenzene-d5	5.848	82	150579	4.877	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 487.70%#				
45) 2-Fluorobiphenyl	7.872	172	296215	4.548	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.80%#				
78) 2,4,6-Tribromophenol	9.230	330	51677	5.453	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 272.65%#				
95) 4-Terphenyl-d14	11.442	244	396974	4.820	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 482.00%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	0.878	74	83682	5.375	ug/ml	#	77
3) Pyridine	0.890	79	112592	4.831	ug/ml	#	61
5) Aniline	4.301	93	174163	4.669	ug/ml		96
6) 2-Chlorophenol	4.560	128	125379	5.166	ug/ml		99
8) Phenol	4.566	94	162406	5.286	ug/ml	#	82
9) Bis(2-chloroethyl)ether	4.607	93	119256	4.915	ug/ml		88
10) 1,3-Dichlorobenzene	4.842	146	139514	4.967	ug/ml		96
11) 1,4-Dichlorobenzene	4.995	146	141698	4.830	ug/ml		95
12) 1,2-Dichlorobenzene	5.242	146	136113	5.082	ug/ml		95
13) Benzyl alcohol	5.331	79	113742	4.847	ug/ml		95
14) Bis(2-chloroisopropyl)...	5.572	45	157096	4.381	ug/ml	#	76
15) 2-Methylphenol	5.607	108	113285	5.182	ug/ml		99
16) Hexachloroethane	5.731	117	59296	4.957	ug/ml	#	59
17) n-Nitrosodi-n-propylamine	5.748	70	94995	4.653	ug/ml	#	89
18) 3-Methylphenol/4-Methy...	5.842	108	118674	4.994	ug/ml		97
20) Nitrobenzene	5.872	77	143416	4.828	ug/ml		96
21) Isophorone	6.213	82	256414	4.865	ug/ml	#	91
22) 2-Nitrophenol	6.283	139	67920	5.529	ug/ml	#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	6.466	107	101705	4.087	ug/ml	95
24) Bis(2-chloroethoxy)met...	6.554	93	155575	4.705	ug/ml#	96
25) 2,4-Dichlorophenol	6.589	162	113444	5.001	ug/ml	96
26) 1,2,4-Trichlorobenzene	6.654	180	132817	4.794	ug/ml	98
35) Naphthalene	6.707	128	369094	4.929	ug/ml	100
36) Benzoic Acid	6.630	105	106162	5.702	ug/ml	93
37) 4-Chloroaniline	6.842	65	52056	4.636	ug/ml	98
38) Hexachlorobutadiene	6.919	225	86116	4.460	ug/ml	99
39) p-Chloro-m-cresol	7.430	107	117809	5.133	ug/ml	96
40) 2-Methylnaphthalene	7.460	142	242149	4.854	ug/ml#	93
41) 1-Methylnaphthalene	7.554	115	96511	4.627	ug/ml	75
42) Hexachlorocyclopentadiene	7.654	237	88565	4.620	ug/ml	98
43) 2,4,6-Trichlorophenol	7.789	196	99878M3	5.355	ug/ml	
44) 2,4,5-Trichlorophenol	7.813	196	105343	5.186	ug/ml	96
46) 2-Chloronaphthalene	7.936	162	241472	4.629	ug/ml	98
47) 2-Nitroaniline	8.077	138	83122	5.503	ug/ml	98
48) 1,4-Dinitrobenzene	8.219	168	41830	5.228	ug/ml	92
49) 1,3-Dinitrobenzene	8.295	168	45649	4.990	ug/ml#	1
50) Dimethyl phthalate	8.313	163	324662	4.709	ug/ml#	98
51) Acenaphthylene	8.330	152	400849	4.941	ug/ml	99
52) 2,6-Dinitrotoluene	8.336	165	67874M6	4.902	ug/ml	
53) 1,2-Dinitrobenzene	8.366	168	29316	5.384	ug/ml	89
63) 3-Nitroaniline	8.483	138	75454	5.786	ug/ml#	95
64) Acenaphthene	8.501	154	220012	4.987	ug/ml	92
65) 2,4-Dinitrophenol	8.583	184	51120	6.155	ug/ml	93
66) Dibenzofuran	8.677	168	367260	4.755	ug/ml	98
67) 2,4-Dinitrotoluene	8.713	165	96287	5.427	ug/ml	89
68) 4-Nitrophenol	8.719	65	79536	5.684	ug/ml#	82
69) 2,3,5,6-Tetrachlorophenol	8.783	232	94771	6.035	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	8.824	232	89915	5.832	ug/ml	99
71) Diethyl phthalate	9.001	149	331310	5.155	ug/ml	99
72) Fluorene	9.001	166	294742	4.857	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.048	204	145605	4.561	ug/ml	95
74) 4-Nitroaniline	9.060	138	75624	5.920	ug/ml#	81
75) 4,6-Dinitro-o-cresol	9.095	198	66564	6.659	ug/ml#	70
76) NDPA/DPA	9.166	169	248373	4.970	ug/ml	98
77) Azobenzene	9.189	77	282196M6	4.432	ug/ml	
79) 4-Bromophenyl phenyl e...	9.501	248	87517	4.601	ug/ml	93
80) Hexachlorobenzene	9.524	284	100317	4.556	ug/ml#	87
81) Pentachlorophenol	9.730	266	75827	5.910	ug/ml	98
88) Phenanthrene	9.895	178	454408	4.812	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	9.942	178	469849	5.030	ug/ml	98
90)	Carbazole	10.130	167	453287	5.304	ug/ml	99
91)	Di-n-butylphthalate	10.571	149	575030	5.521	ug/ml	99
92)	Fluoranthene	11.013	202	548264	5.072	ug/ml#	92
93)	Benzidine	11.201	184	372387	6.009	ug/ml#	96
94)	Pyrene	11.213	202	585530	5.129	ug/ml	98
96)	Butyl benzyl phthalate	11.971	149	281501	6.355	ug/ml	93
104)	Benzo(a)anthracene	12.360	228	591703M3	5.189	ug/ml	
105)	3,3'-Dichlorobenzidine	12.401	252	227381	5.789	ug/ml#	97
106)	Chrysene	12.395	228	542688	4.822	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	12.583	149	417483	6.175	ug/ml#	90
108)	Di-n-octylphthalate	13.207	149	731087	6.601	ug/ml#	72
109)	Benzo(b)fluoranthene	13.365	252	541256M3	5.199	ug/ml	
110)	Benzo(k)fluoranthene	13.395	252	558902	5.496	ug/ml#	91
111)	Benzo(a)pyrene	13.648	252	526443	5.646	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	14.606	276	508988M3	5.296	ug/mL	
114)	Dibenzo(a,h)anthracene	14.642	278	485944M6	5.318	ug/ml	
115)	Benzo(ghi)perylene	14.806	276	495116	5.488	ug/ml#	87

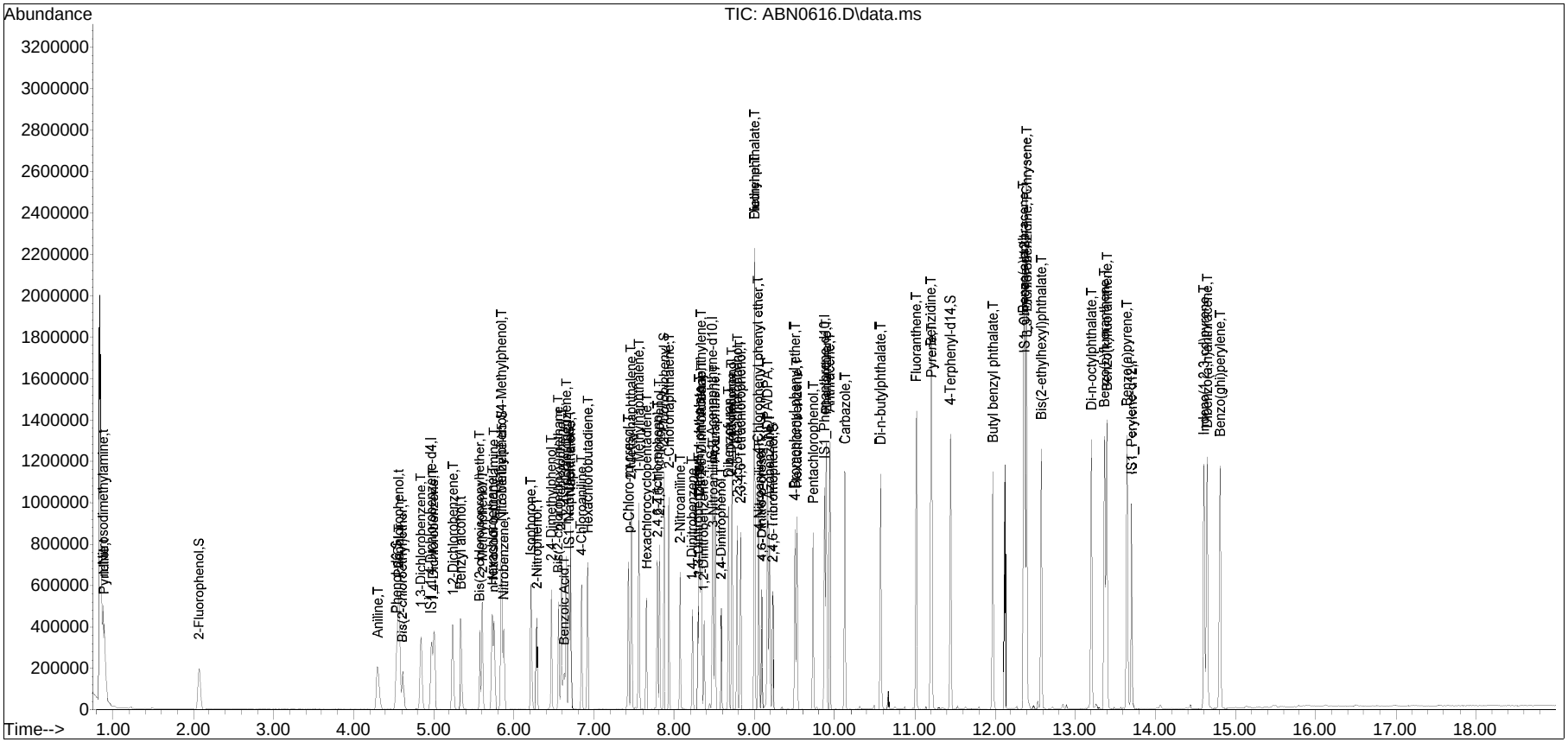
(#) = qualifier out of range (m) = manual integration (+) = signals summed

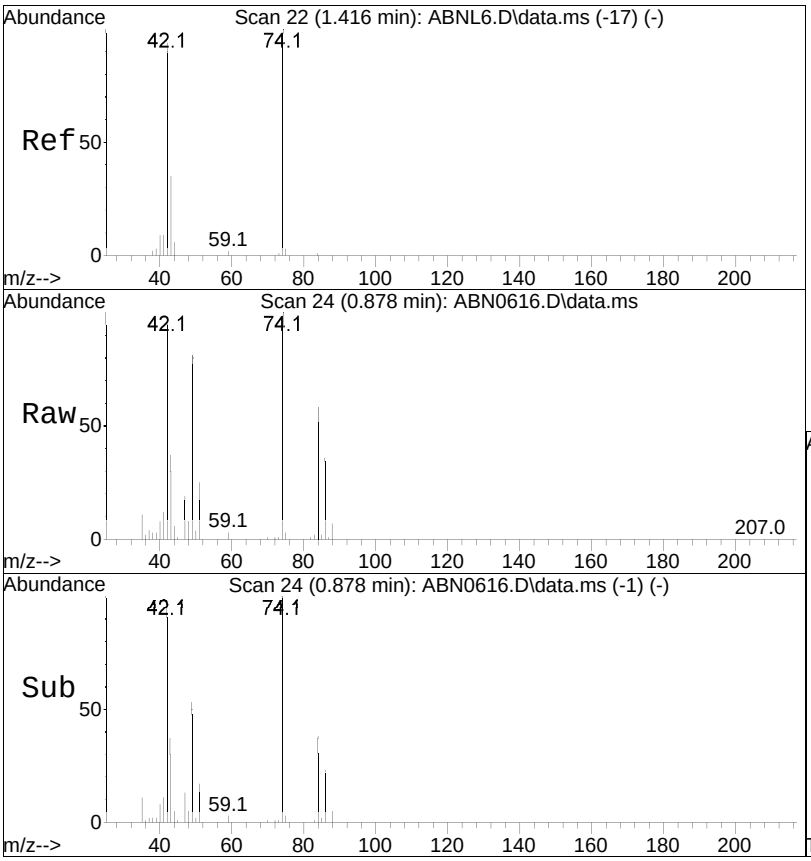
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ABN0616.D
Acq On : 16 Jun 2024 1:06 pm
Operator : SV106:sz
Sample : wg1934989-3,32,,ABN 10526 HNY0517B
Misc : wg1934989,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 17 08:17:19 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

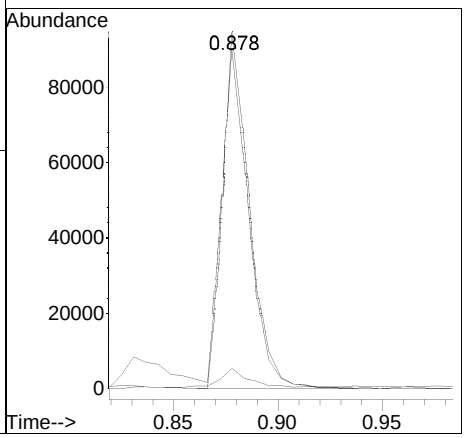


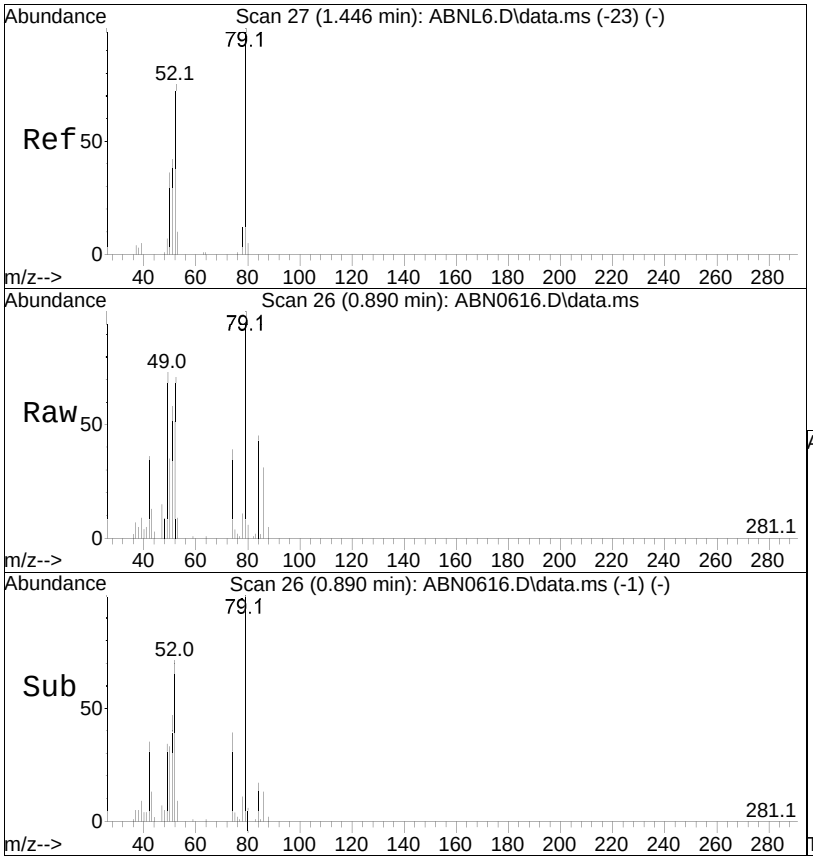


#2
n-Nitrosodimethylamine
Concen: 5.37 ug/ml
RT: 0.878 min Scan# 24
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 74 Resp: 83682

Ion	Ratio	Lower	Upper
74	100		
42	97.2	100.0	150.0#
44	5.6	6.7	10.1#

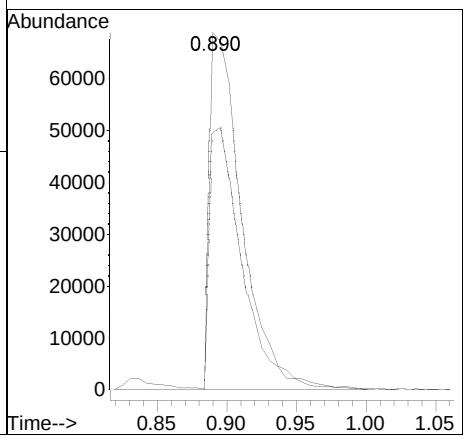


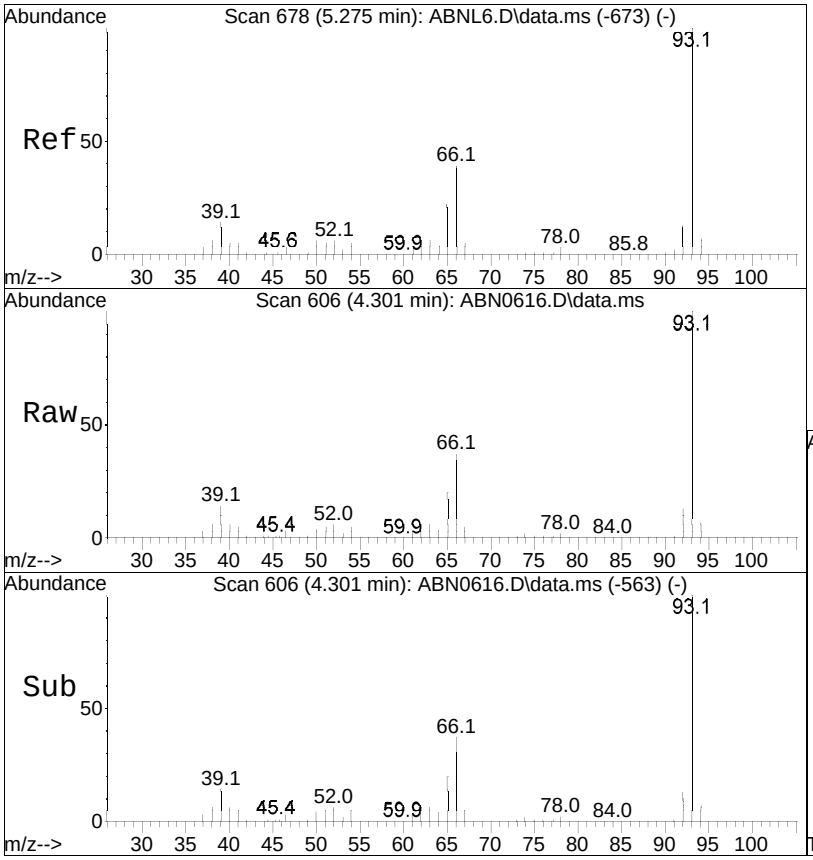


#3
Pyridine
Concen: 4.83 ug/ml
RT: 0.890 min Scan# 26
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 79 Resp: 112592

Ion	Ratio	Lower	Upper
79	100		
52	73.4	93.1	139.7#

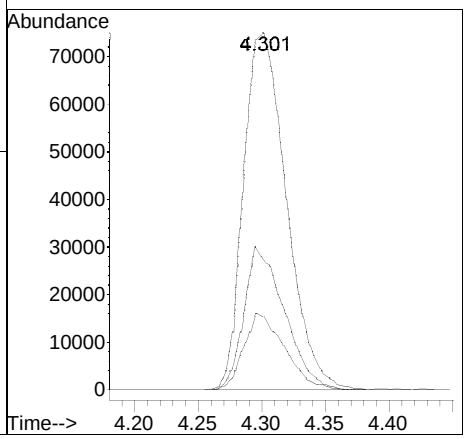


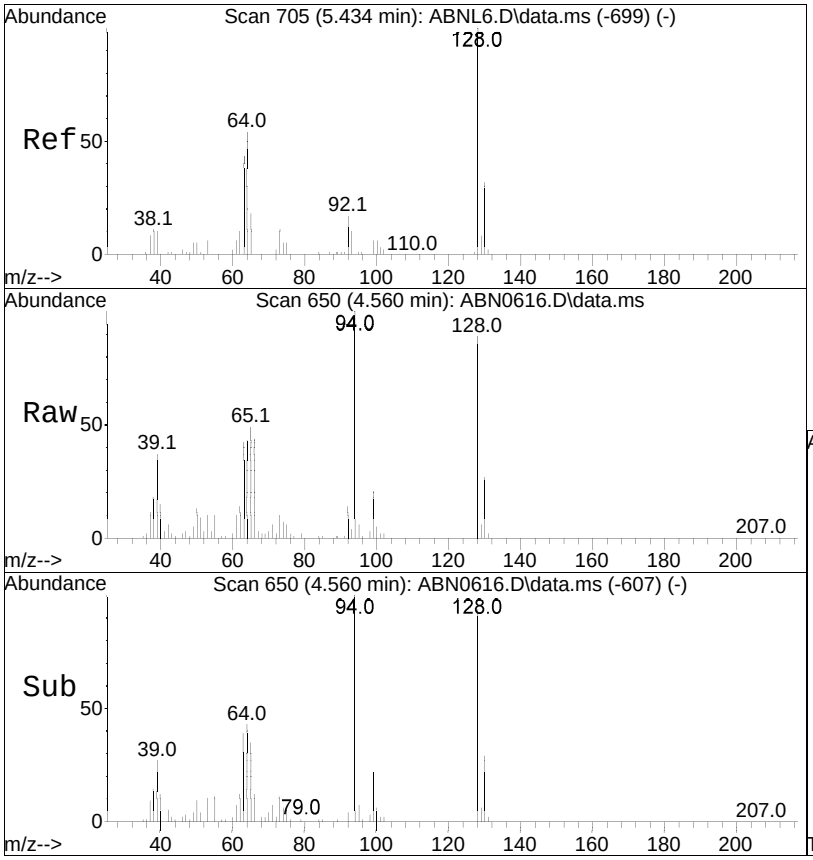


#5
Aniline
Concen: 4.67 ug/ml
RT: 4.301 min Scan# 606
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 93 Resp: 174163

Ion	Ratio	Lower	Upper
93	100		
66	37.9	32.6	49.0
65	20.5	17.6	26.4

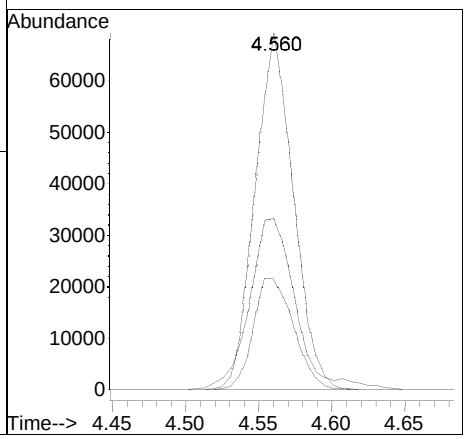


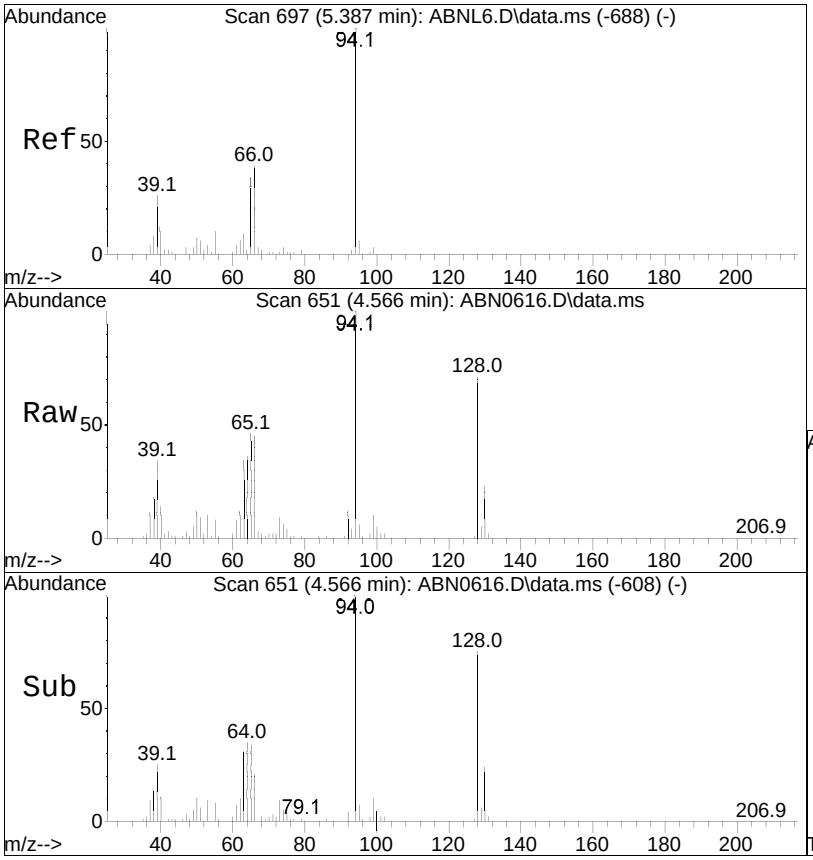


#6
2-Chlorophenol
Concen: 5.17 ug/ml
RT: 4.560 min Scan# 650
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:128 Resp: 125379

Ion	Ratio	Lower	Upper
128	100		
64	57.6	45.1	67.7
130	33.1	26.2	39.4

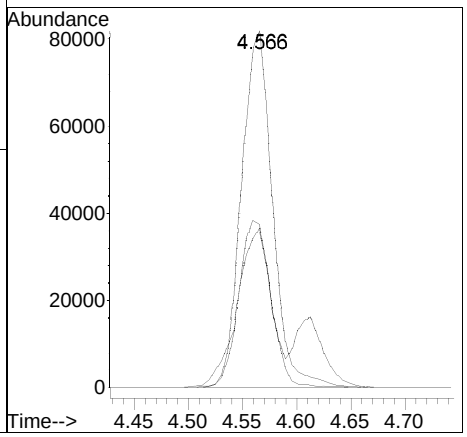


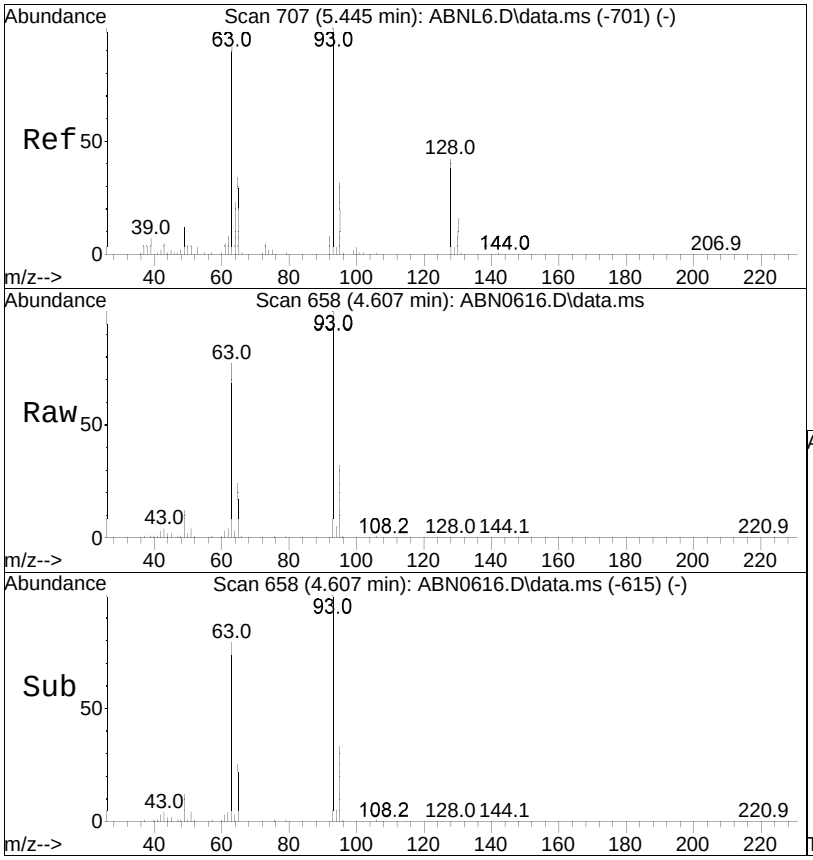


#8
Phenol
Concen: 5.29 ug/ml
RT: 4.566 min Scan# 651
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 94 Resp: 162406

Ion	Ratio	Lower	Upper
94	100		
65	48.3	26.0	39.0#
66	49.2	33.8	50.8

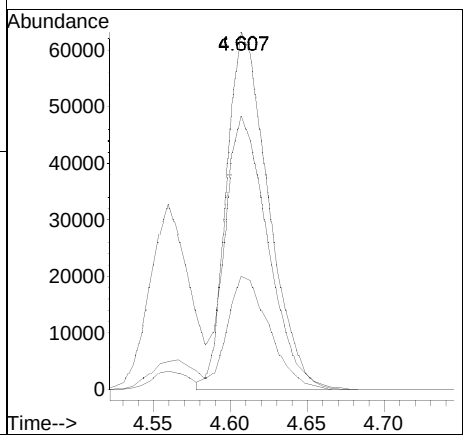


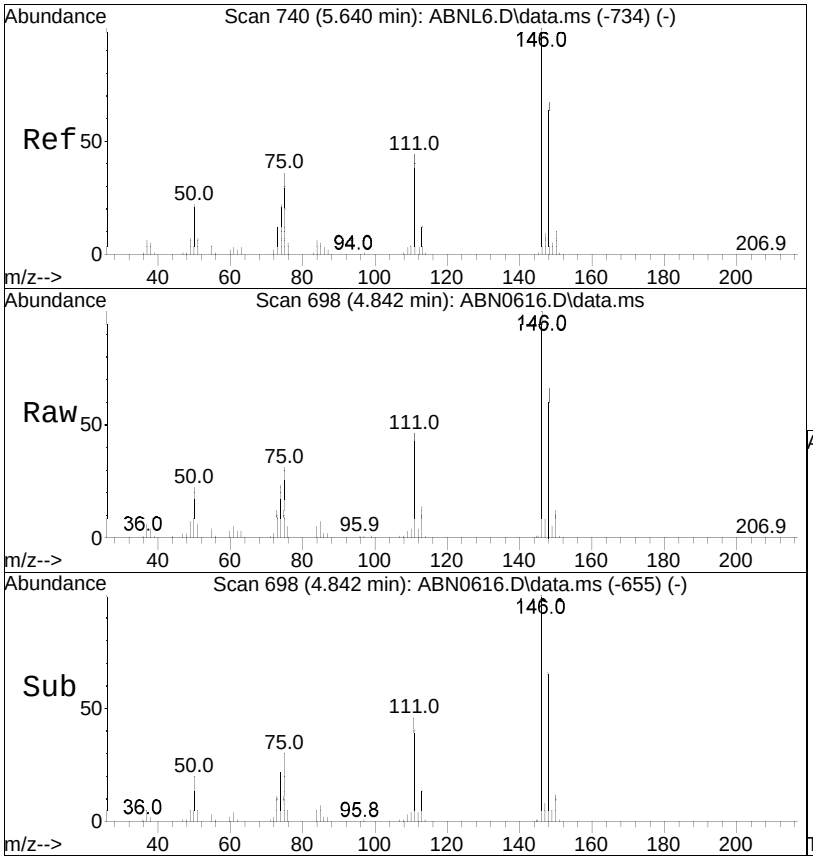


#9
Bis(2-chloroethyl)ether
Concen: 4.92 ug/ml
RT: 4.607 min Scan# 658
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 93 Resp: 119256

Ion	Ratio	Lower	Upper
93	100		
63	78.3	74.6	111.8
95	31.9	25.9	38.9

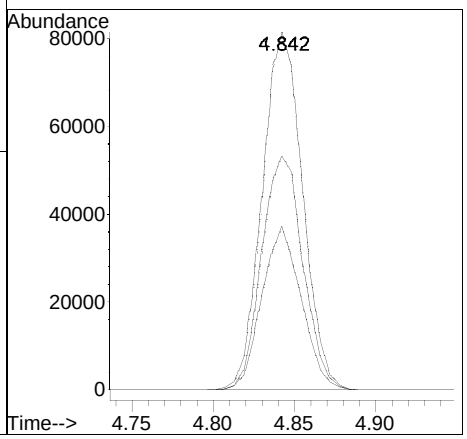


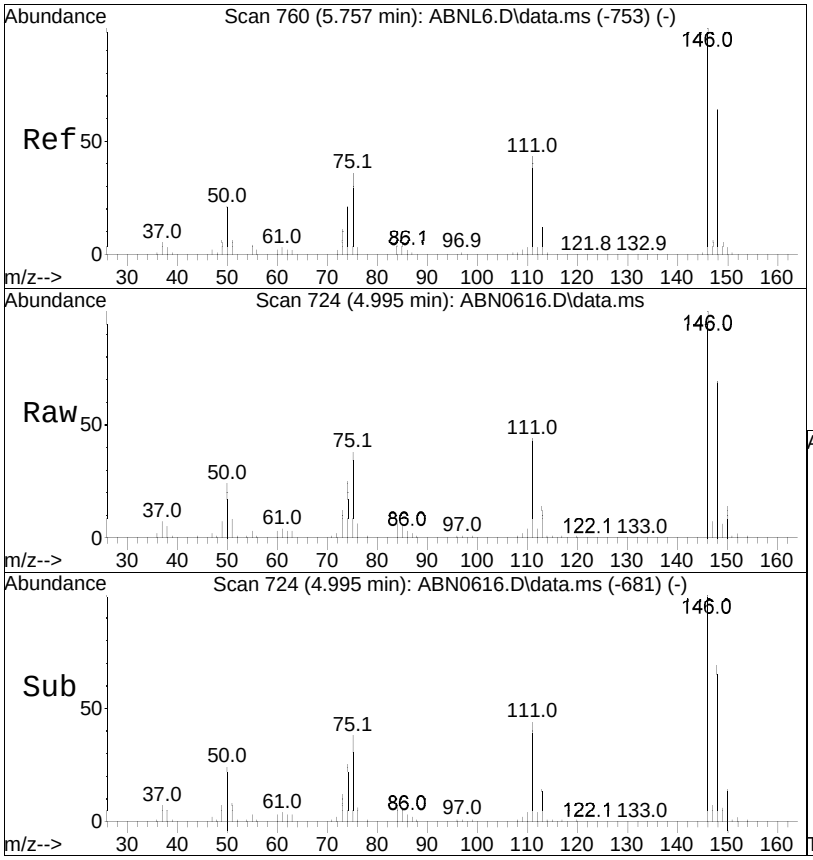


#10
1,3-Dichlorobenzene
Concen: 4.97 ug/ml
RT: 4.842 min Scan# 698
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:146 Resp: 139514

Ion	Ratio	Lower	Upper
146	100		
111	44.8	34.3	51.5
148	66.8	50.8	76.2

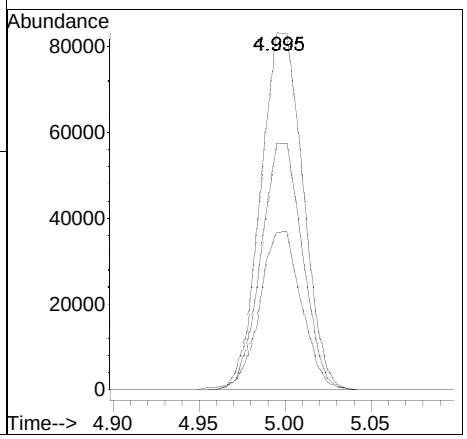


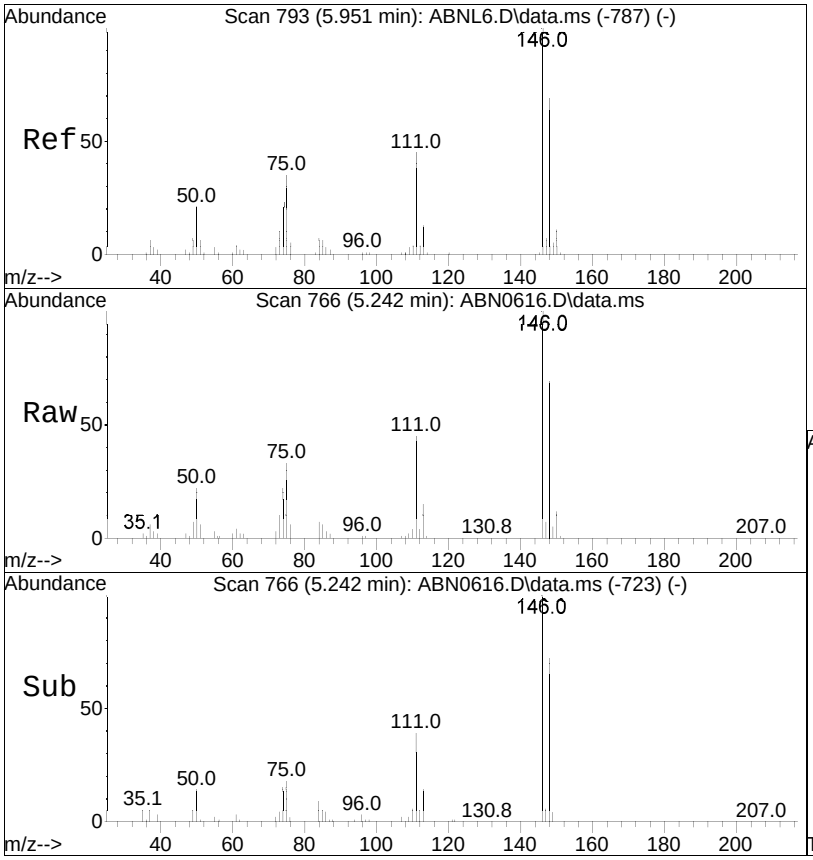


#11
1,4-Dichlorobenzene
Concen: 4.83 ug/ml
RT: 4.995 min Scan# 724
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:146 Resp: 141698

Ion	Ratio	Lower	Upper
146	100		
148	67.5	50.7	76.1
111	44.2	33.4	50.0

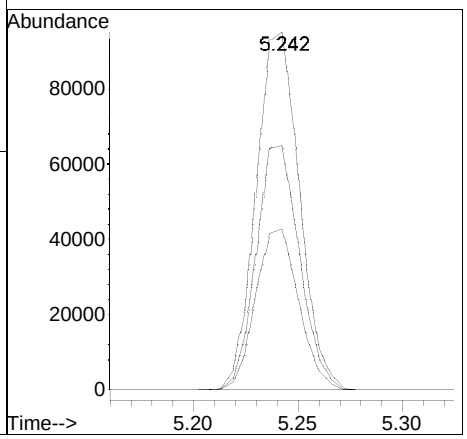


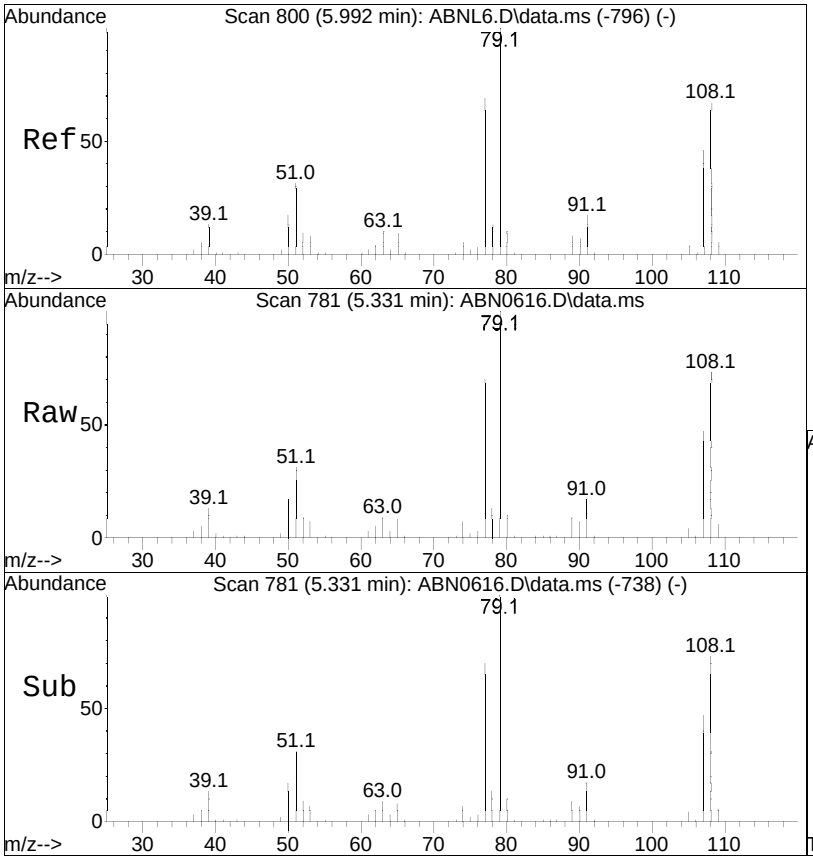


#12
1,2-Dichlorobenzene
Concen: 5.08 ug/ml
RT: 5.242 min Scan# 766
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:146 Resp: 136113

Ion	Ratio	Lower	Upper
146	100		
111	44.9	34.6	52.0
148	68.3	50.2	75.4

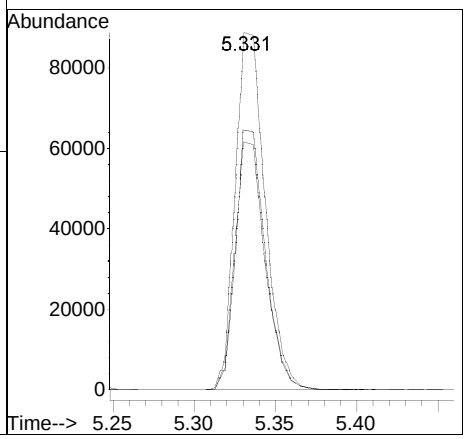


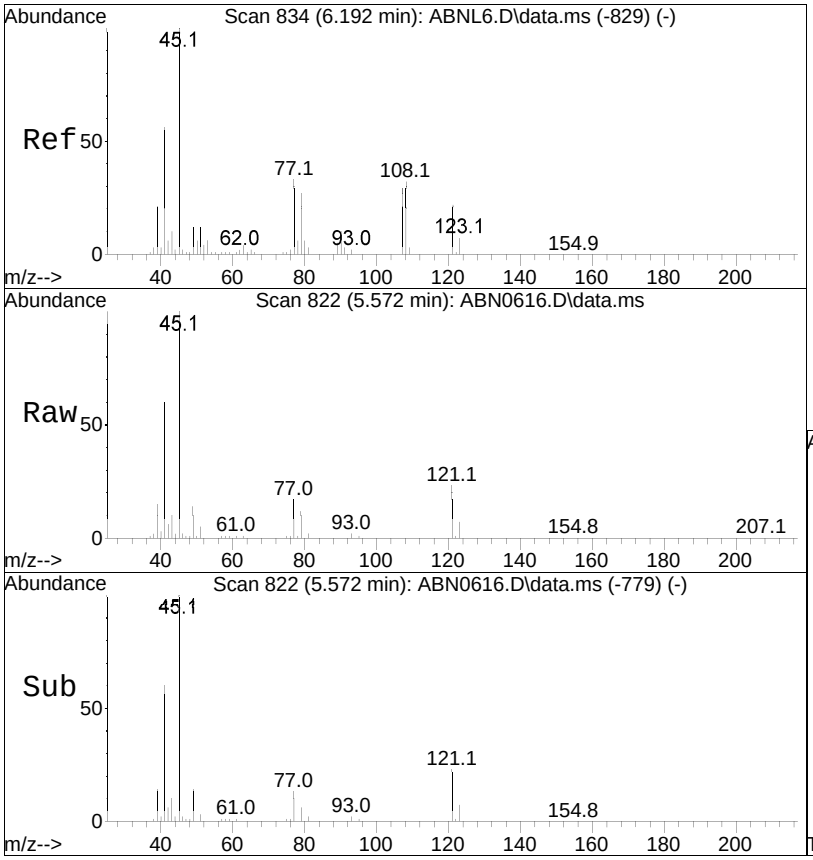


#13
Benzyl alcohol
Concen: 4.85 ug/ml
RT: 5.331 min Scan# 781
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 79 Resp: 113742

Ion	Ratio	Lower	Upper
79	100		
77	70.1	54.9	82.3
108	72.1	63.1	94.7

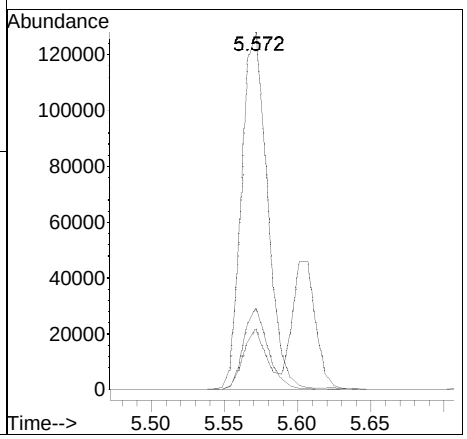


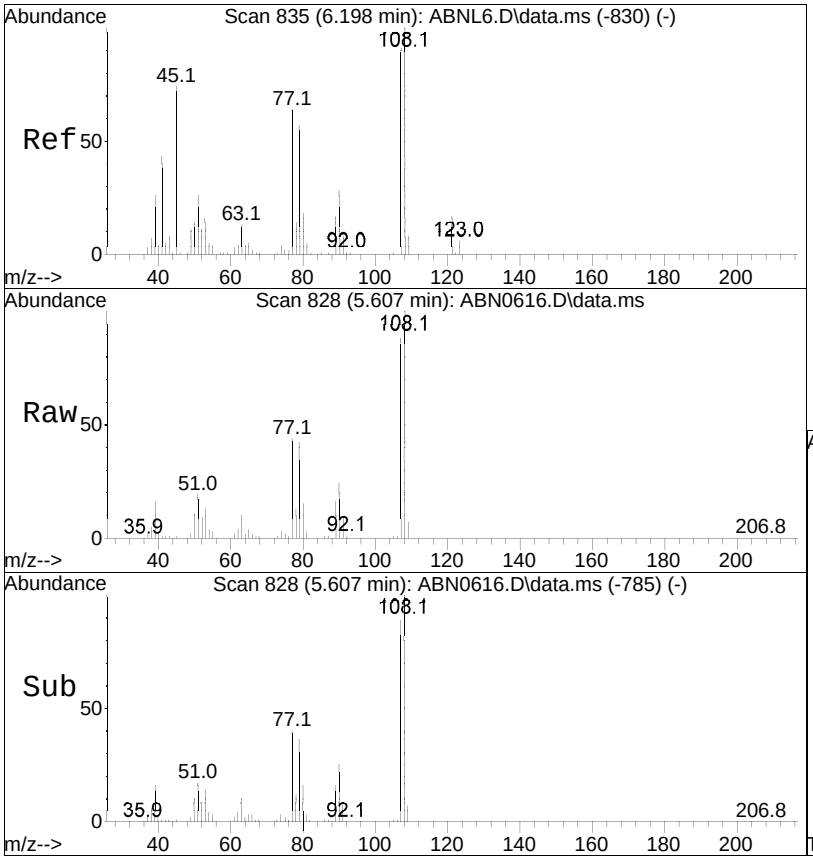


#14
Bis(2-chloroisopropyl)ether
Concen: 4.38 ug/ml
RT: 5.572 min Scan# 822
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 45 Resp: 157096

Ion	Ratio	Lower	Upper
45	100		
121	21.4	9.8	14.6#
77	16.3	6.1	9.1#

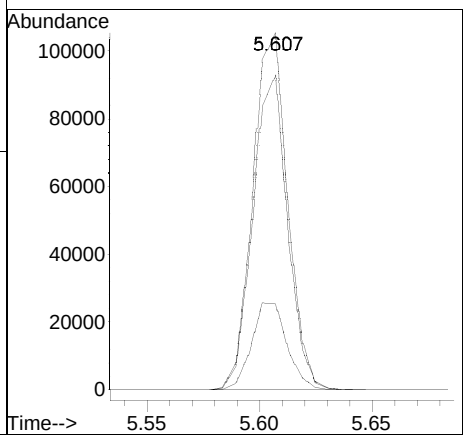


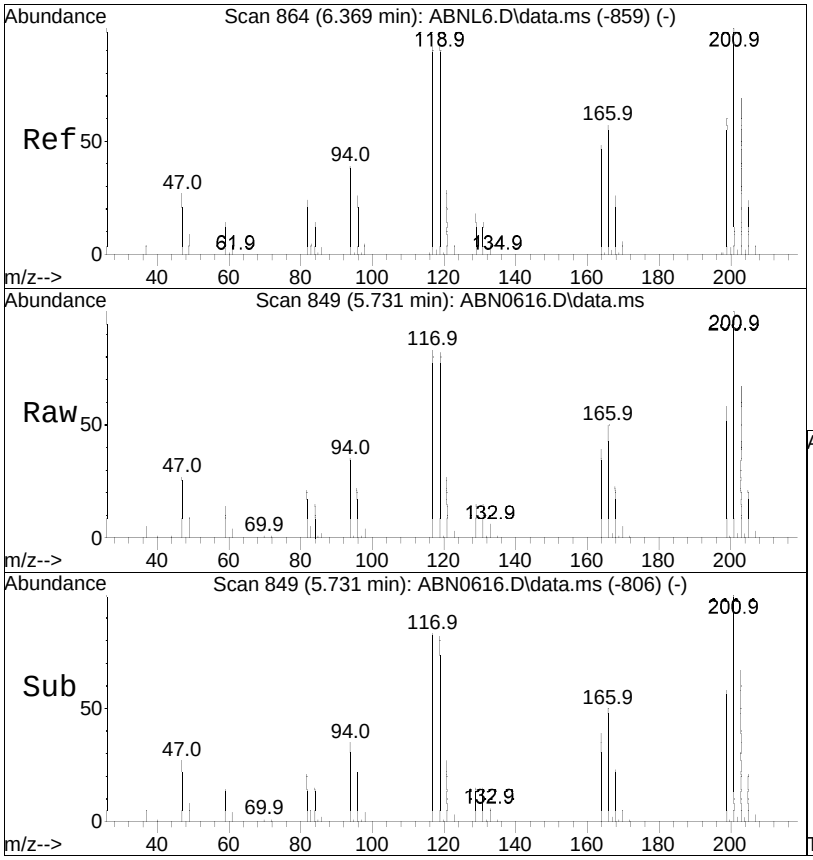


#15
2-Methylphenol
Concen: 5.18 ug/ml
RT: 5.607 min Scan# 828
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:108 Resp: 113285

Ion	Ratio	Lower	Upper
108	100		
107	87.9	70.7	106.1
90	24.8	18.7	28.1

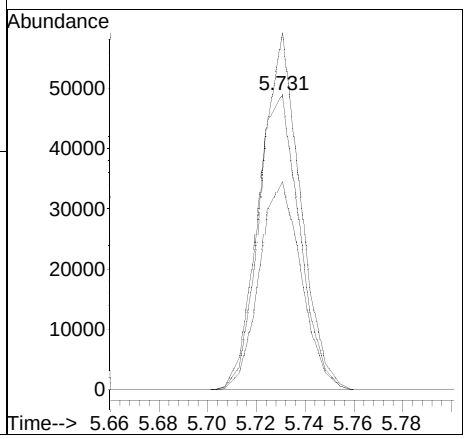


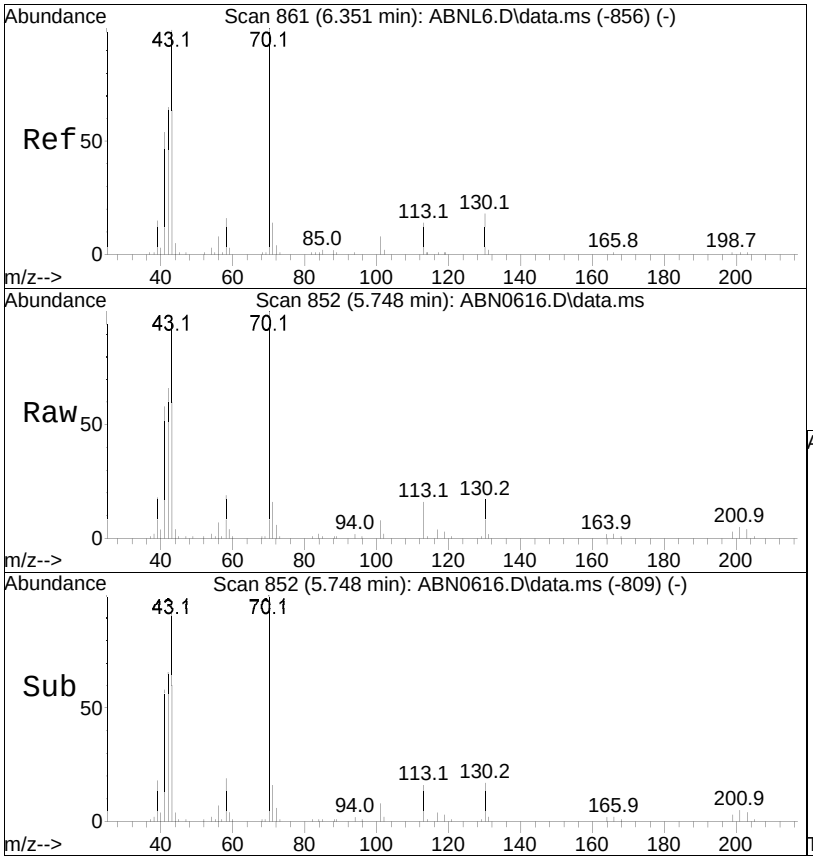


#16
Hexachloroethane
Concen: 4.96 ug/ml
RT: 5.731 min Scan# 849
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:117 Resp: 59296

Ion	Ratio	Lower	Upper
117	100		
201	110.7	58.6	87.8#
199	69.8	36.9	55.3#

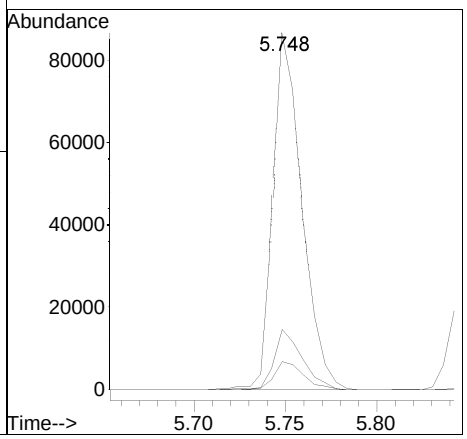


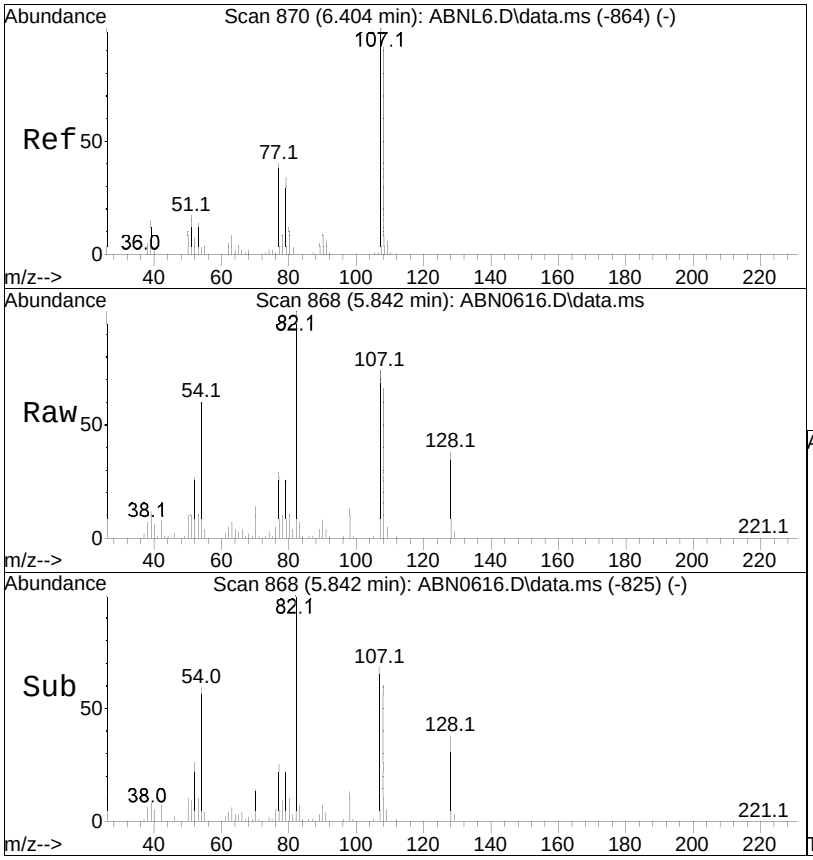


#17
n-Nitrosodi-n-propylamine
Concen: 4.65 ug/ml
RT: 5.748 min Scan# 852
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 70 Resp: 94995

Ion	Ratio	Lower	Upper
70	100		
130	16.5	18.2	27.4#
101	8.1	7.8	11.8

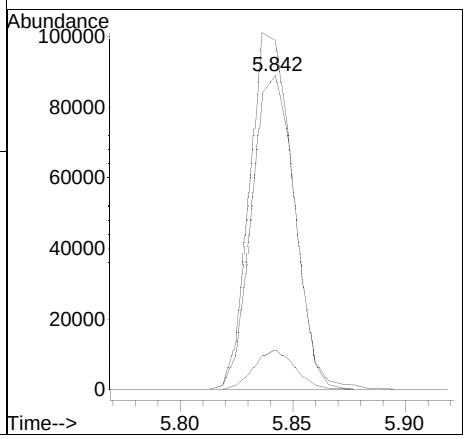


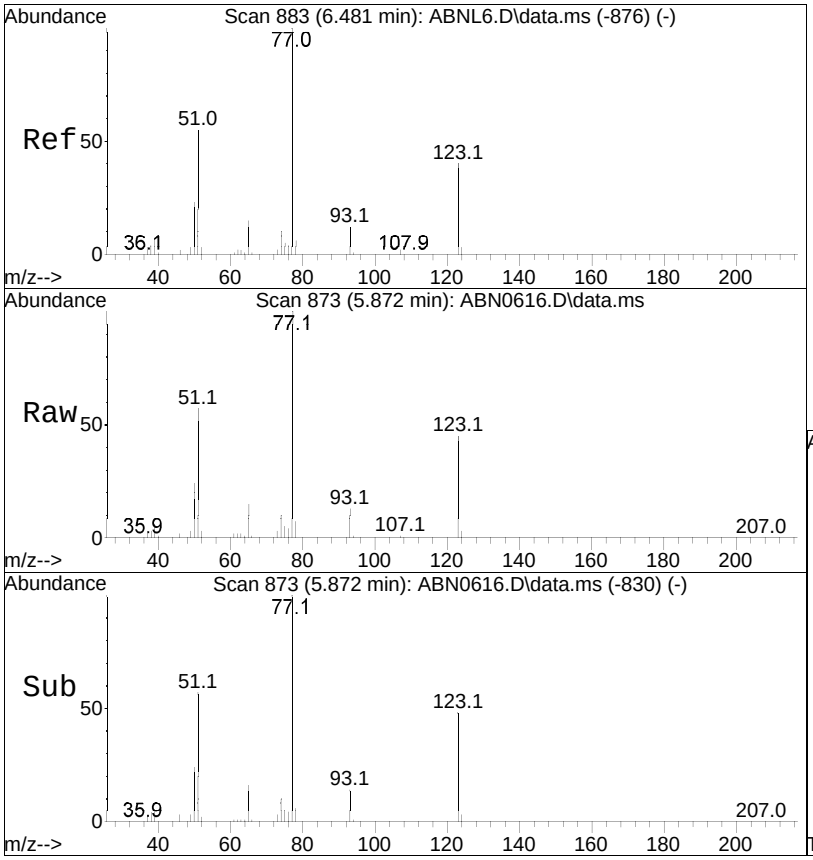


#18
3-Methylphenol/4-Methylphenol
Concen: 4.99 ug/ml
RT: 5.842 min Scan# 868
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:108 Resp: 118674

Ion	Ratio	Lower	Upper
108	100		
107	114.4	88.6	132.8
90	12.0	8.8	13.2

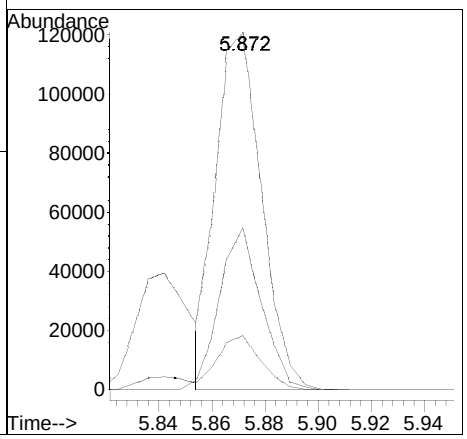


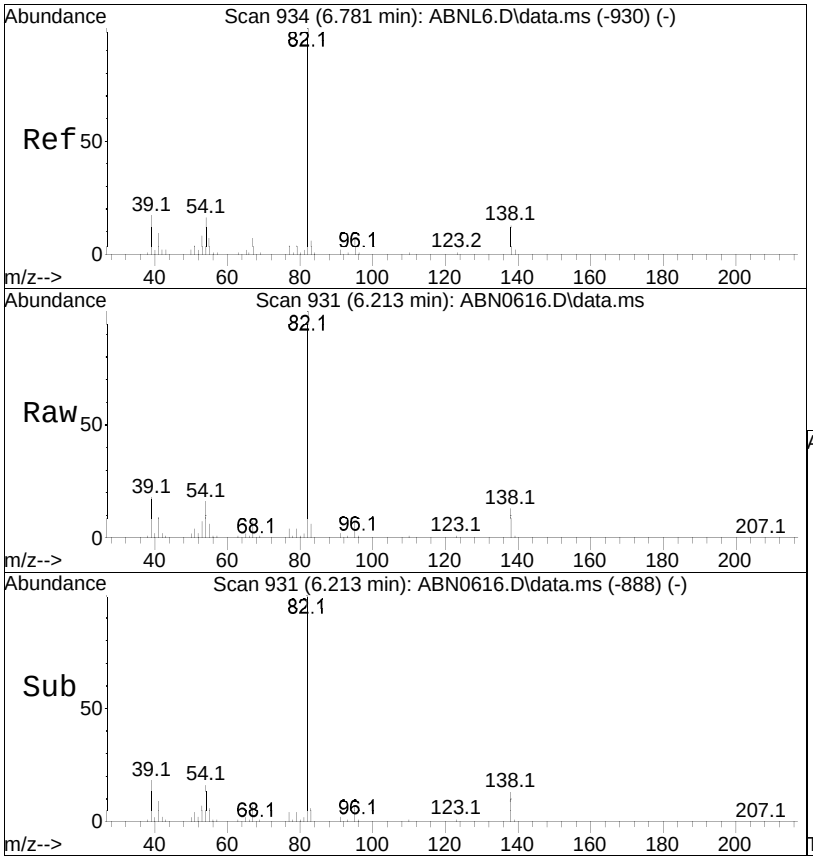


#20
Nitrobenzene
Concen: 4.83 ug/ml
RT: 5.872 min Scan# 873
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 77 Resp: 143416

Ion	Ratio	Lower	Upper
77	100		
123	42.2	36.3	54.5
65	14.4	11.6	17.4

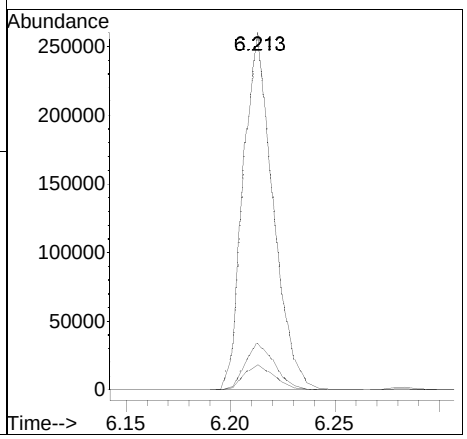


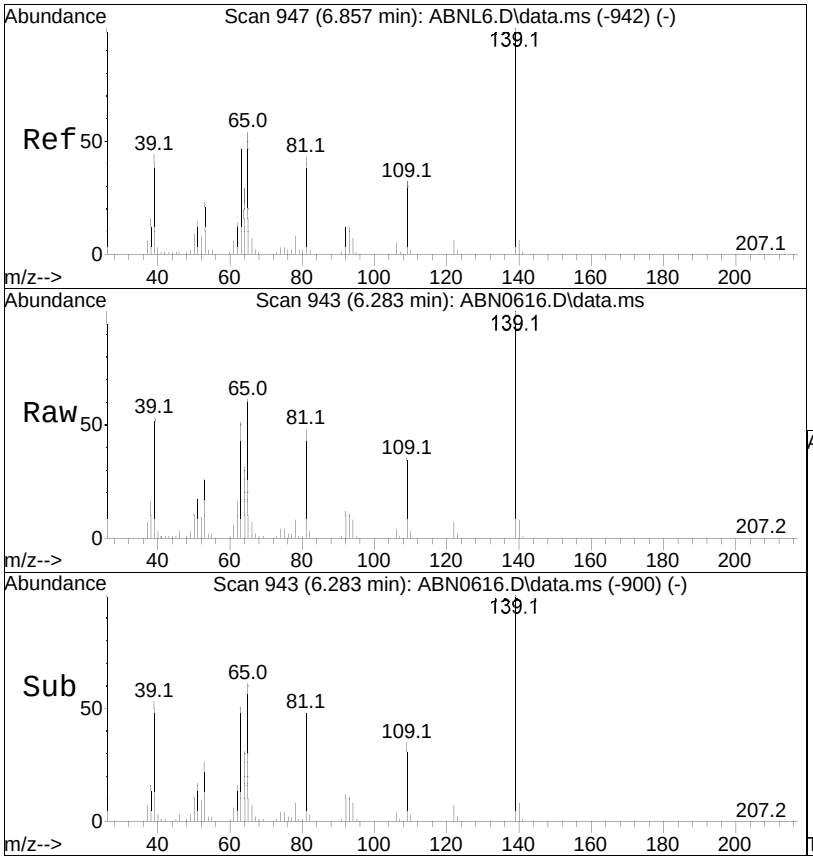


#21
Isophorone
Concen: 4.87 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 82 Resp: 256414

Ion	Ratio	Lower	Upper
82	100		
138	13.1	14.7	22.1#
95	7.3	5.2	7.8

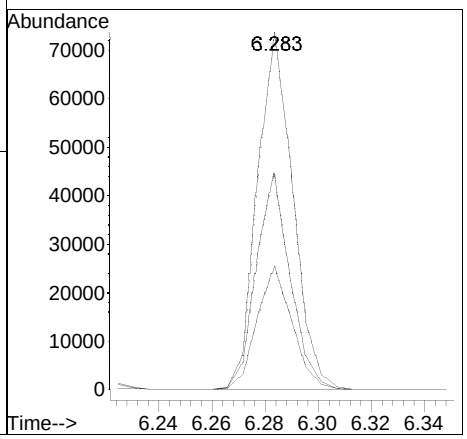


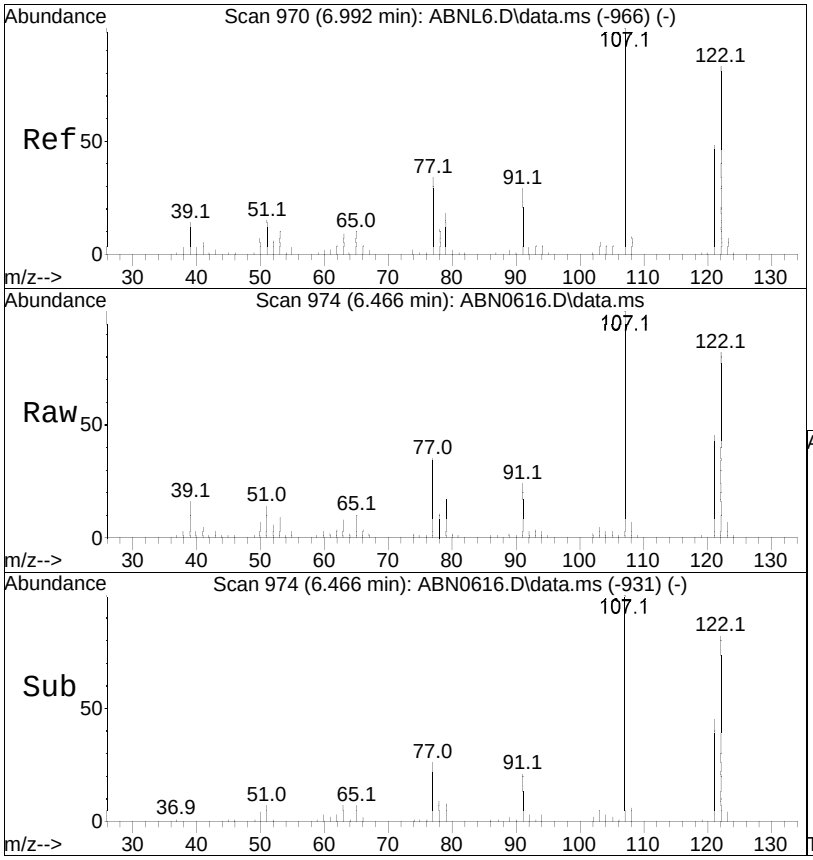


#22
2-Nitrophenol
Concen: 5.53 ug/ml
RT: 6.283 min Scan# 943
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:139 Resp: 67920

Ion	Ratio	Lower	Upper
139	100		
109	34.4	19.4	29.0#
65	58.1	46.1	69.1

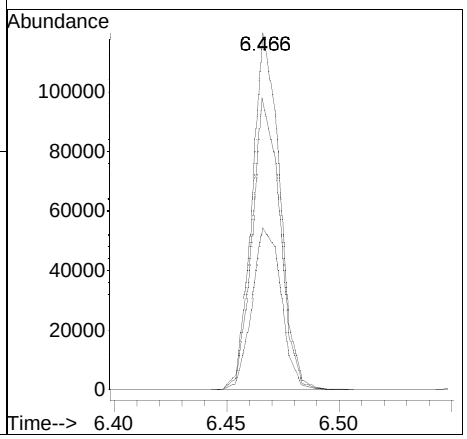


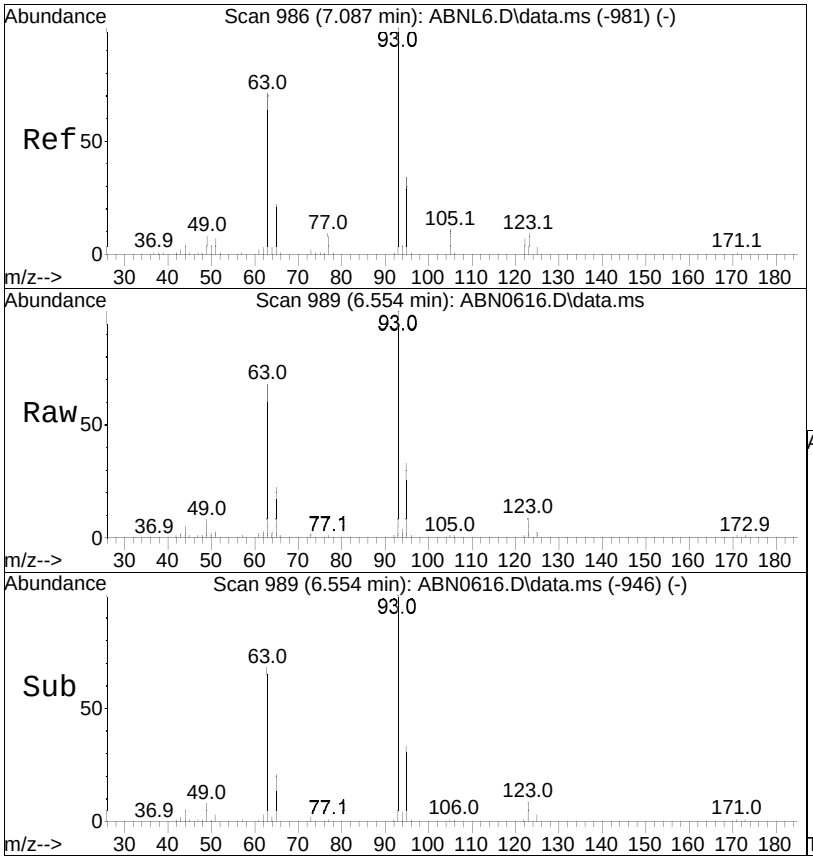


#23
2,4-Dimethylphenol
Concen: 4.09 ug/ml
RT: 6.466 min Scan# 974
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:107 Resp: 101705

Ion	Ratio	Lower	Upper
107	100		
121	48.3	40.0	60.0
122	81.8	70.2	105.4

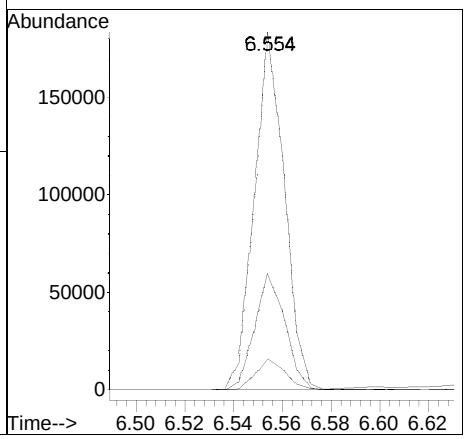


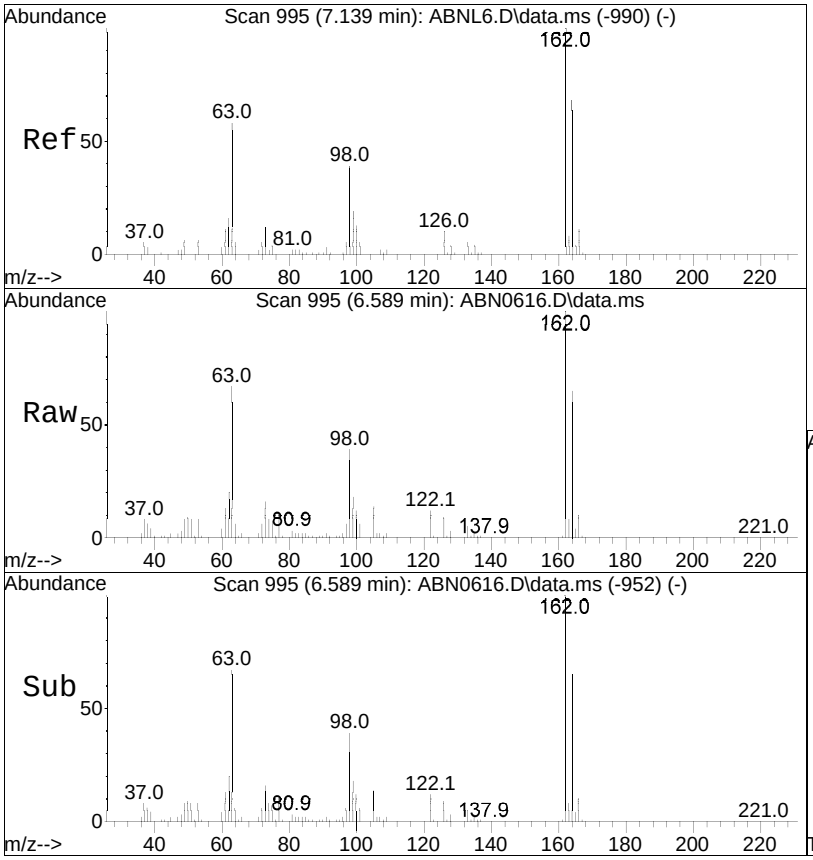


#24
Bis(2-chloroethoxy)methane
Concen: 4.71 ug/ml
RT: 6.554 min Scan# 989
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 93 Resp: 155575

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	8.9	10.1	15.1#

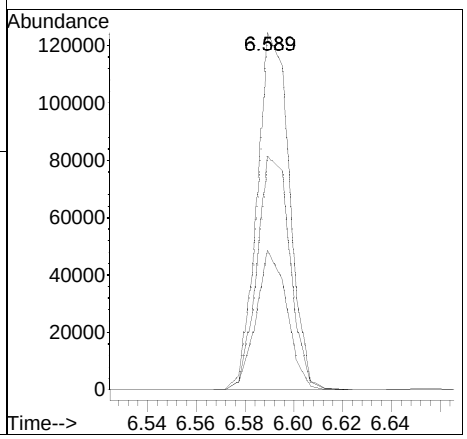


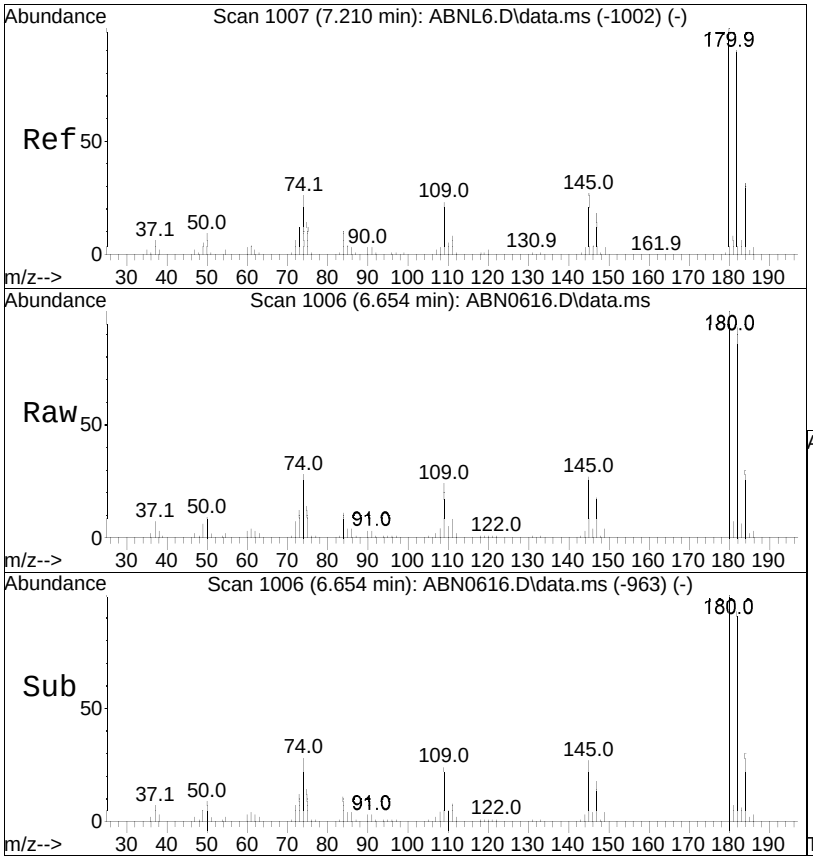


#25
2,4-Dichlorophenol
Concen: 5.00 ug/ml
RT: 6.589 min Scan# 995
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:162 Resp: 113444

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.0	76.4
98	37.8	32.2	48.2

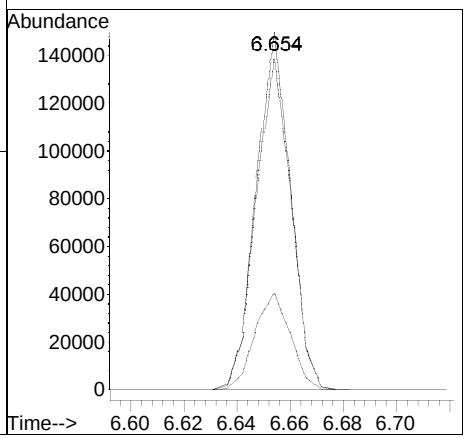


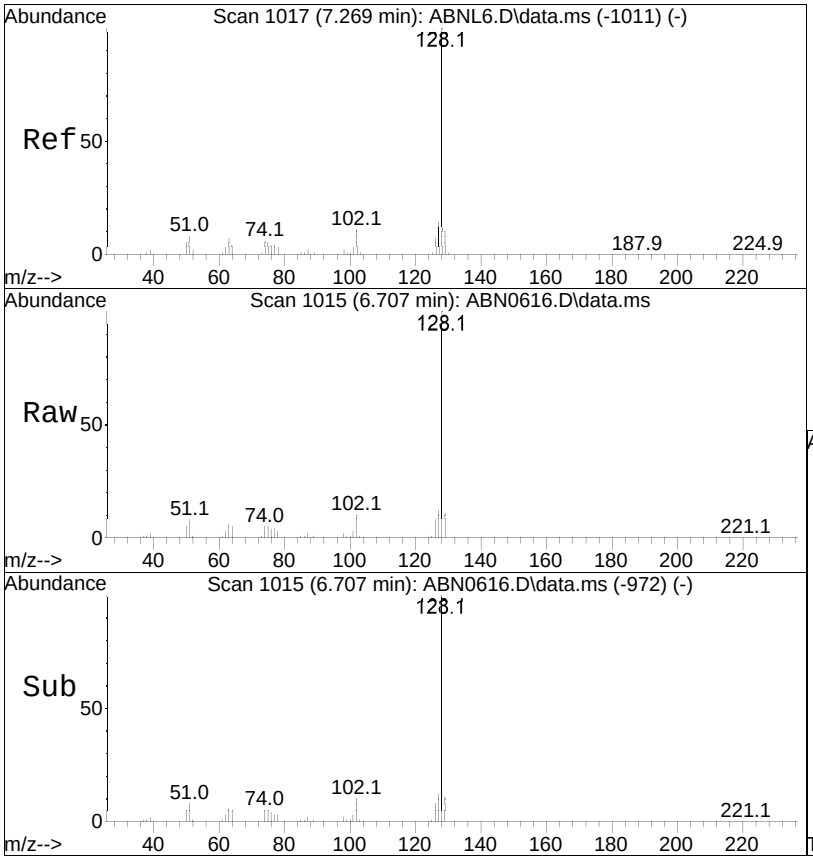


#26
1,2,4-Trichlorobenzene
Concen: 4.79 ug/ml
RT: 6.654 min Scan# 1006
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:180 Resp: 132817

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.0	114.0
145	28.3	25.7	38.5

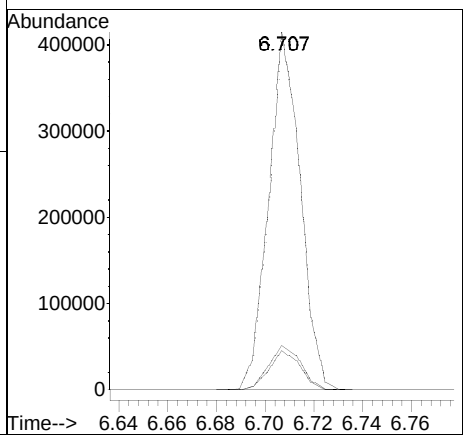


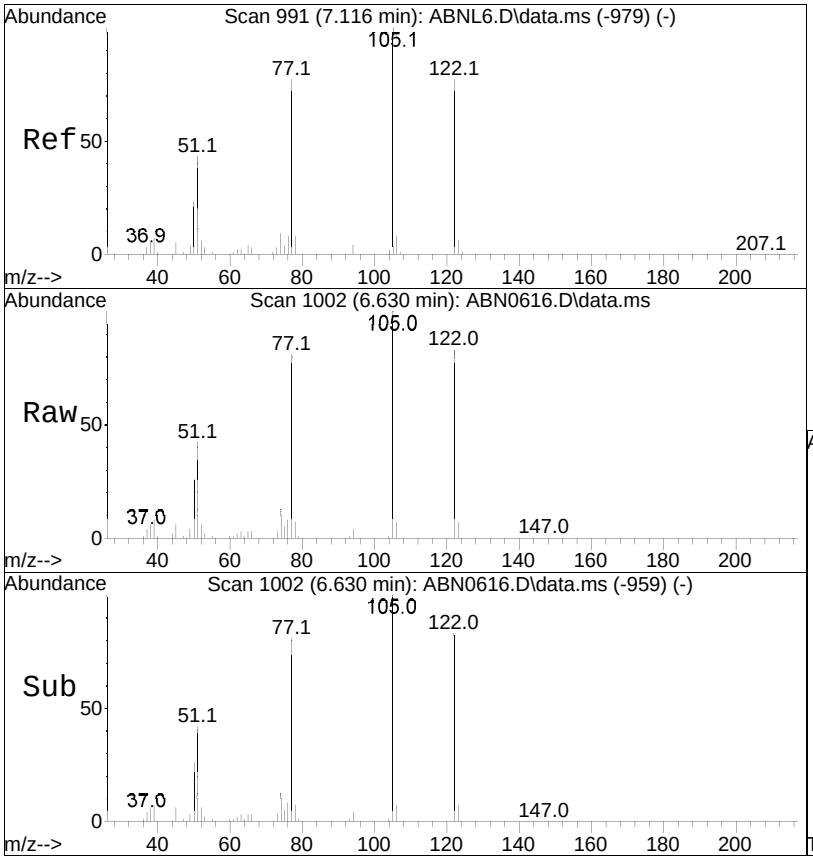


#35
Naphthalene
Concen: 4.93 ug/ml
RT: 6.707 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:128 Resp: 369094

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	12.9	10.3	15.5

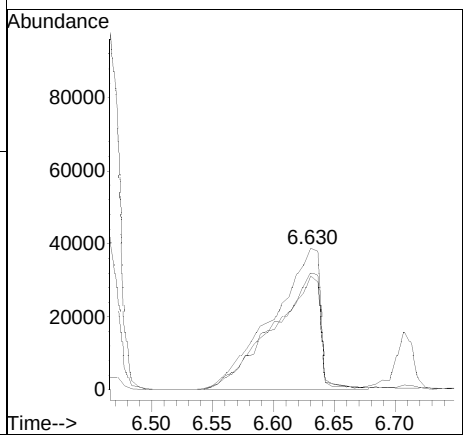


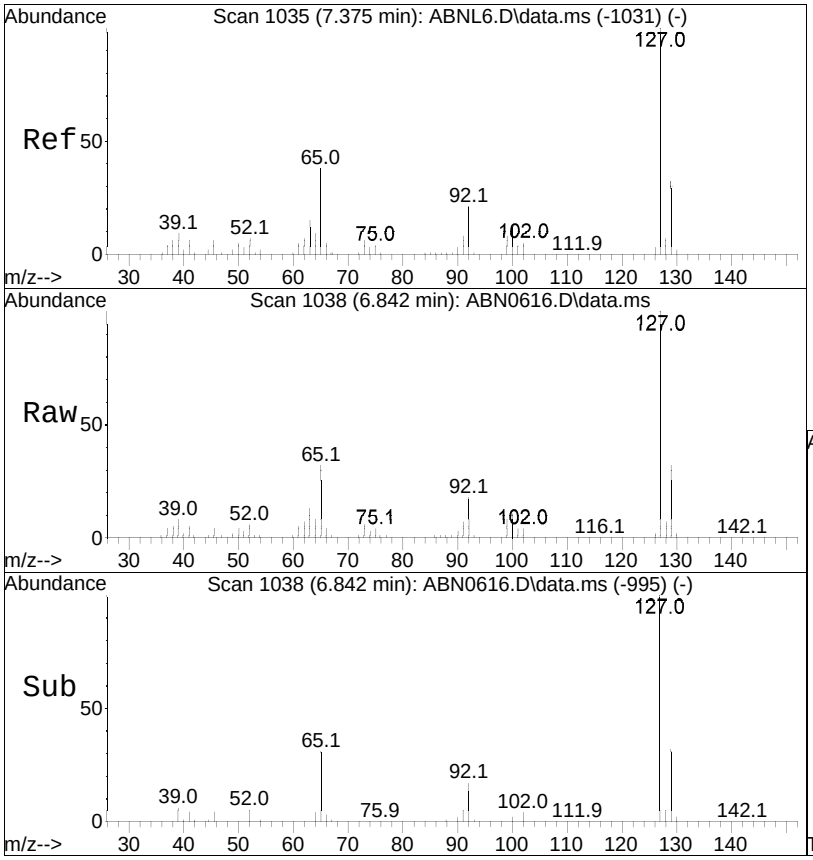


#36
Benzoic Acid
Concen: 5.70 ug/ml
RT: 6.630 min Scan# 1002
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:105 Resp: 106162

Ion	Ratio	Lower	Upper
105	100		
122	82.2	59.9	89.9
77	80.3	60.1	90.1

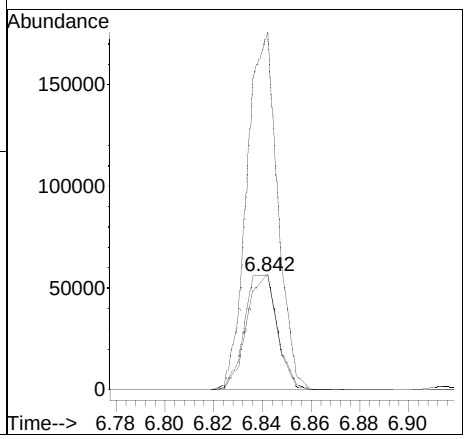


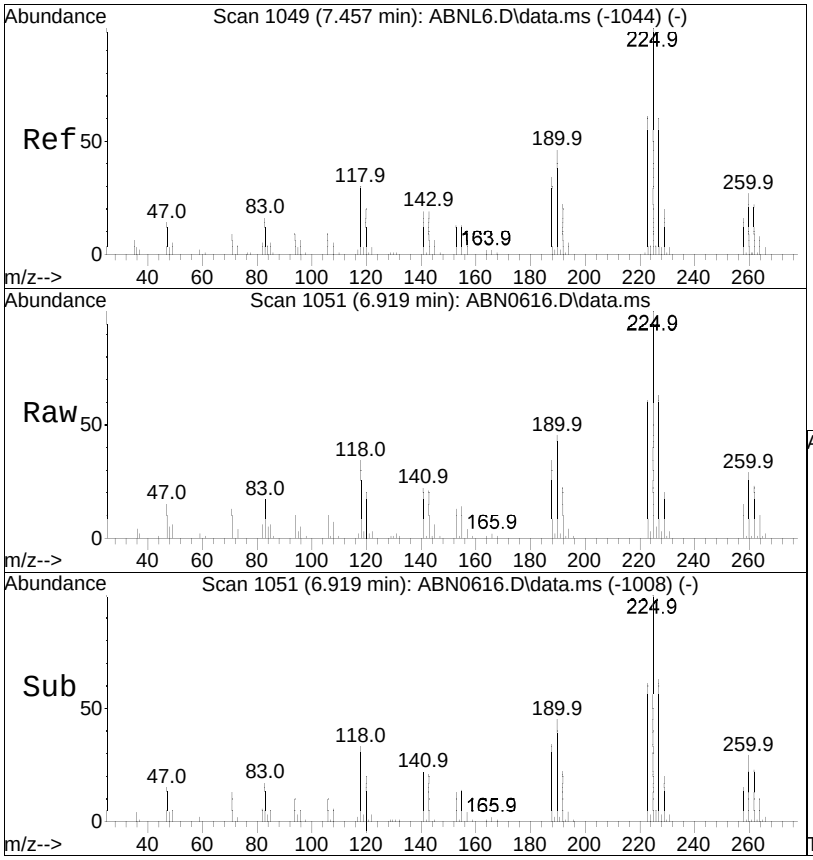


#37
4-Chloroaniline
Concen: 4.64 ug/ml
RT: 6.842 min Scan# 1038
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 65 Resp: 52056

Ion	Ratio	Lower	Upper
65	100		
127	292.4	237.6	356.4
129	94.8	76.3	114.5

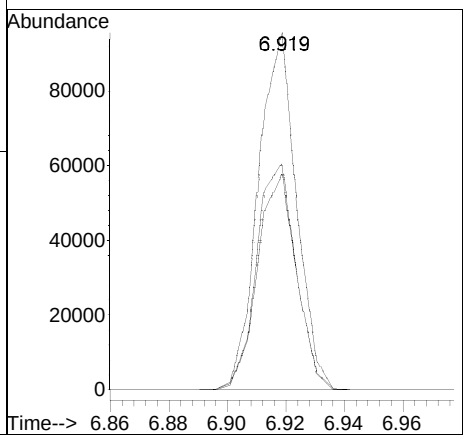


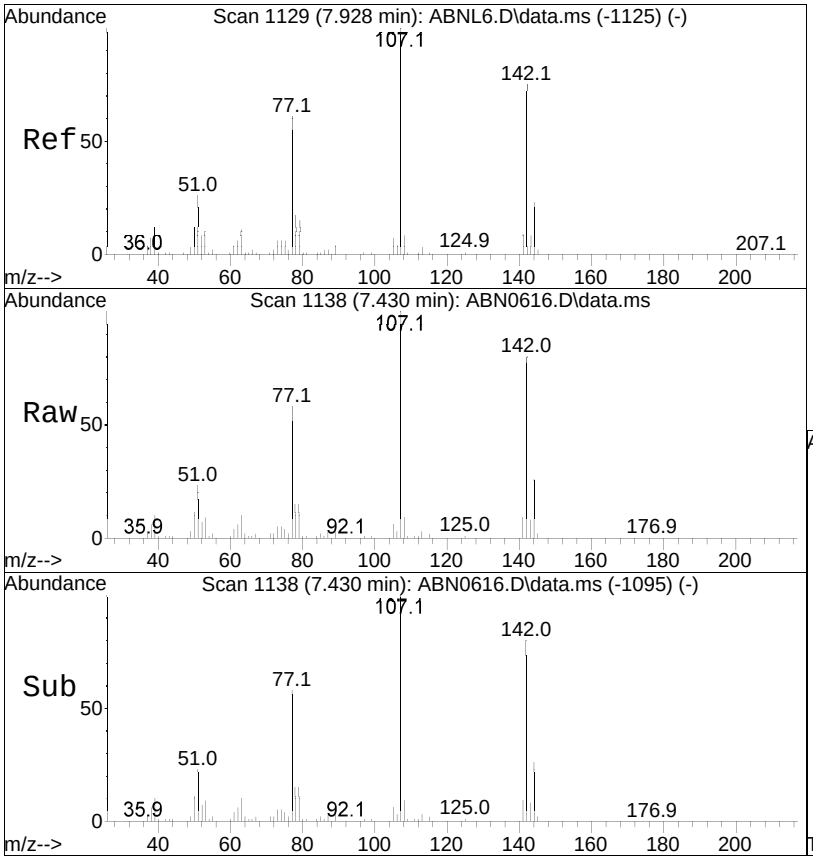


#38
Hexachlorobutadiene
Concen: 4.46 ug/ml
RT: 6.919 min Scan# 1051
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:225 Resp: 86116

Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.3	75.5
227	66.0	52.2	78.2

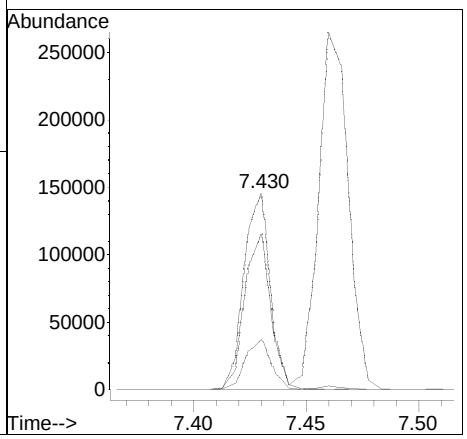


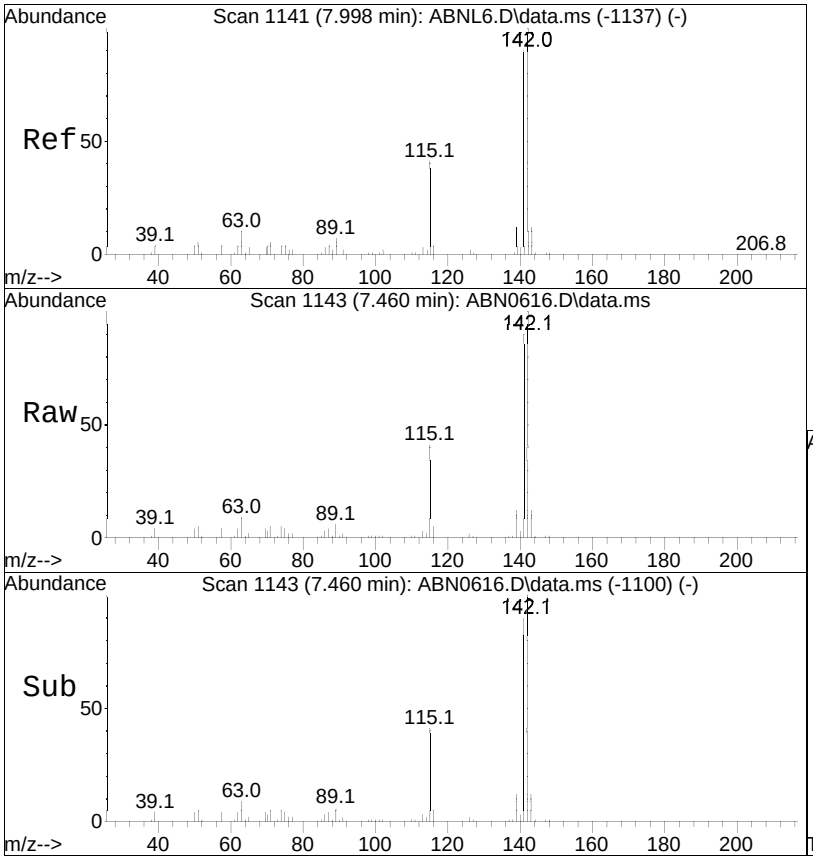


#39
p-Chloro-m-cresol
Concen: 5.13 ug/ml
RT: 7.430 min Scan# 1138
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:107 Resp: 117809

Ion	Ratio	Lower	Upper
107	100		
144	25.2	20.9	31.3
142	78.6	66.1	99.1

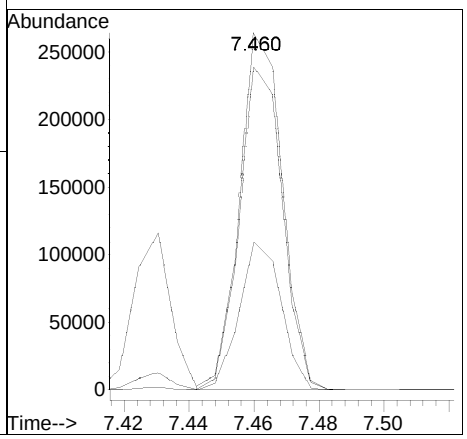


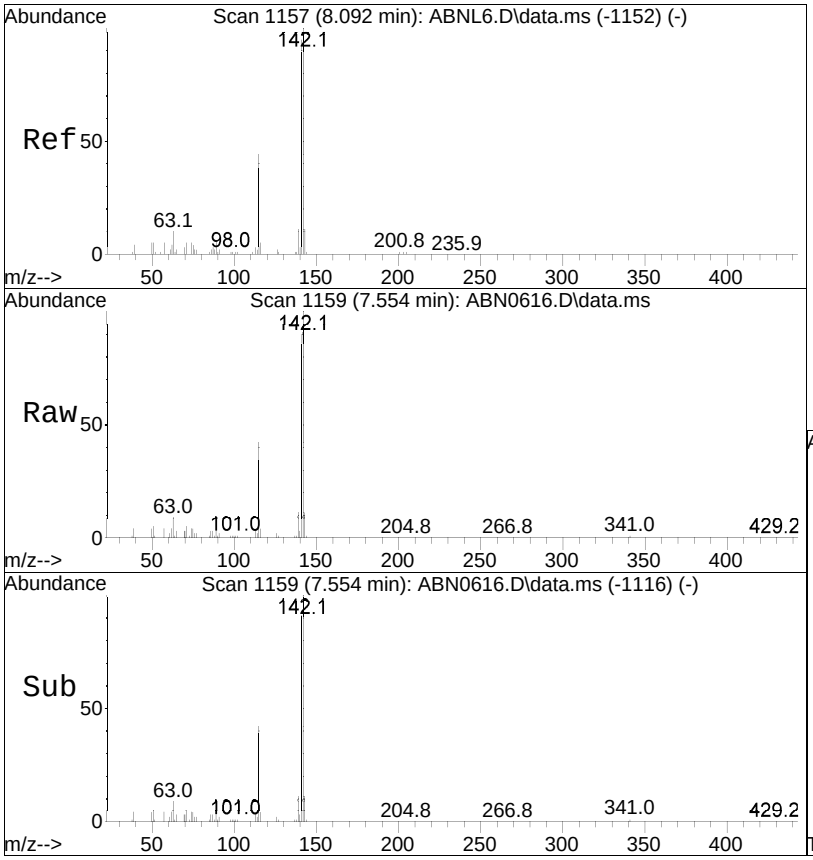


#40
2-Methylnaphthalene
Concen: 4.85 ug/ml
RT: 7.460 min Scan# 1143
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:142 Resp: 242149

Ion	Ratio	Lower	Upper
142	100		
141	90.9	69.6	104.4
115	40.8	26.6	40.0#

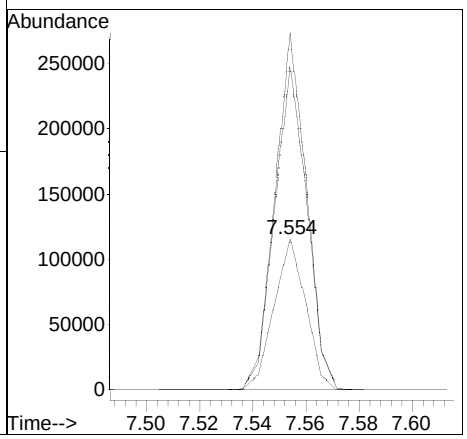


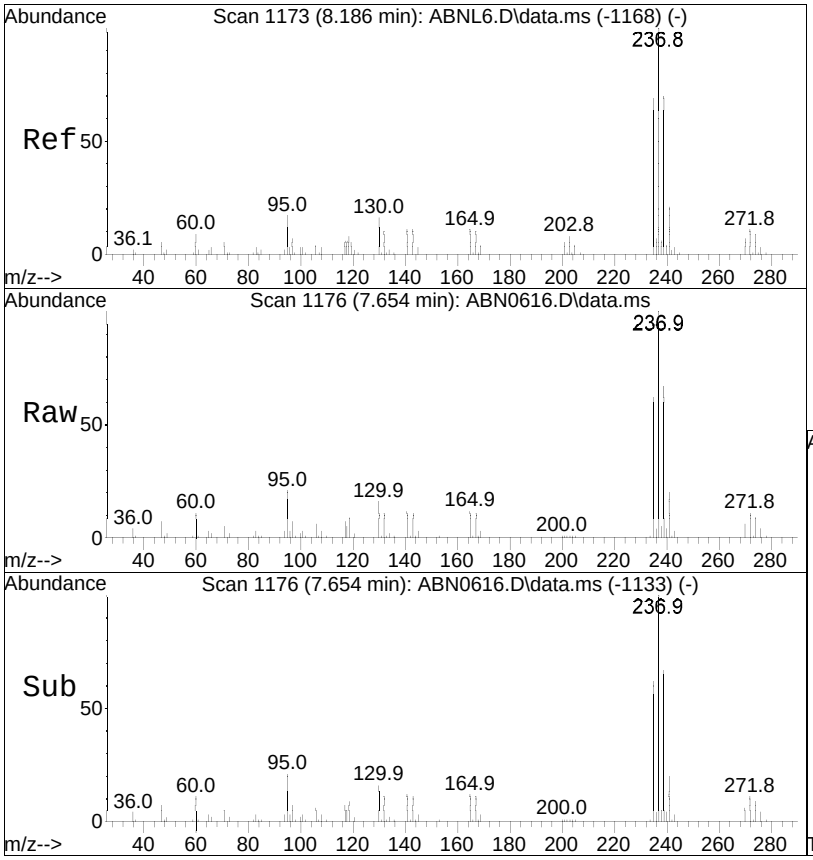


#41
1-Methylnaphthalene
Concen: 4.63 ug/ml
RT: 7.554 min Scan# 1159
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:115 Resp: 96511

Ion	Ratio	Lower	Upper
115	100		
141	216.4	207.8	311.6
142	233.5	226.8	340.2

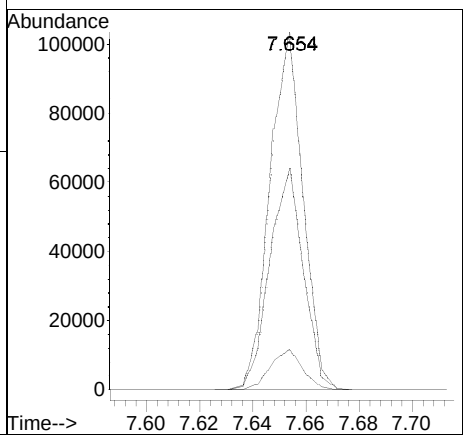


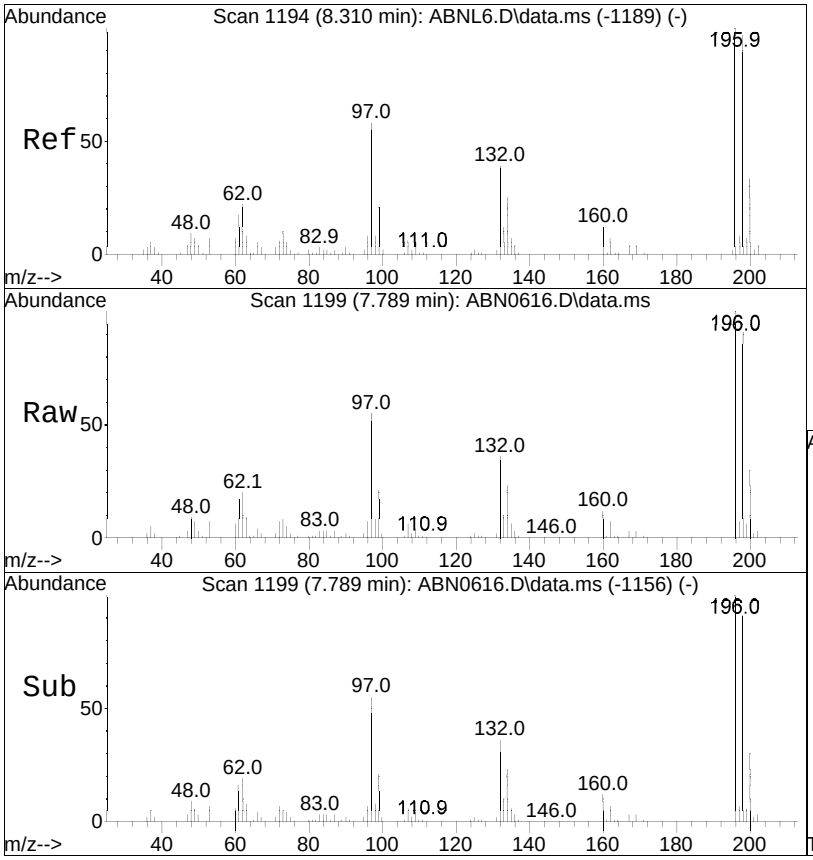


#42
Hexachlorocyclopentadiene
Concen: 4.62 ug/ml
RT: 7.654 min Scan# 1176
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:237 Resp: 88565

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.1	9.8	14.6

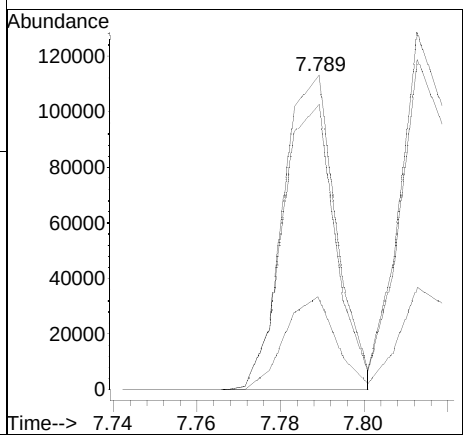


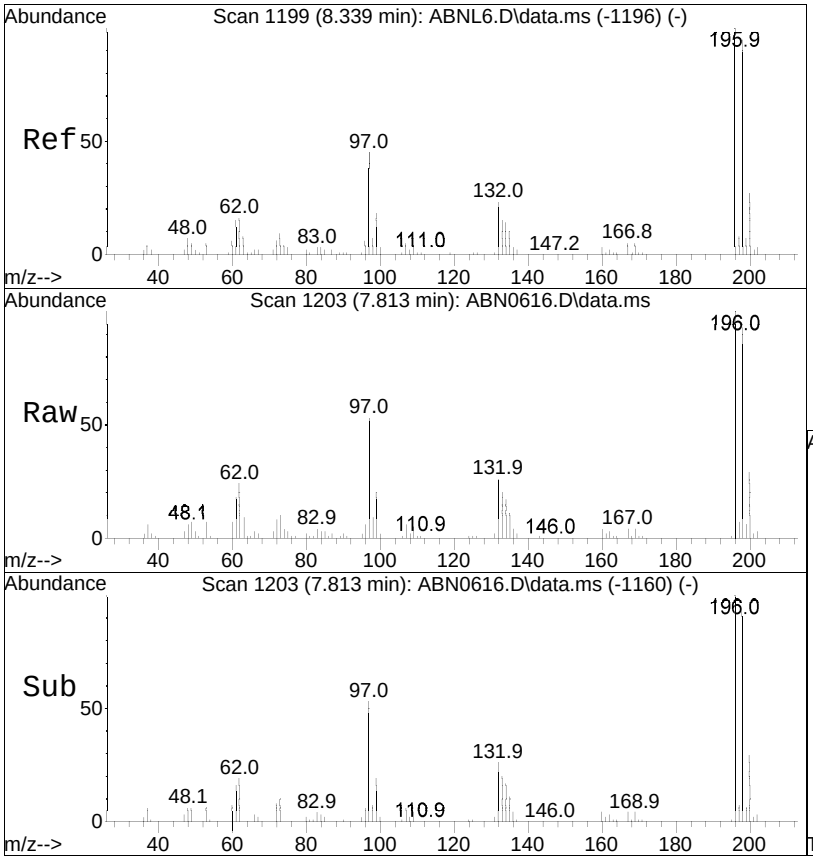


#43
2,4,6-Trichlorophenol
Concen: 5.36 ug/ml M3
RT: 7.789 min Scan# 1199
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:196 Resp: 99878

Ion	Ratio	Lower	Upper
196	100		
198	90.8	77.5	116.3
200	29.0	23.8	35.6

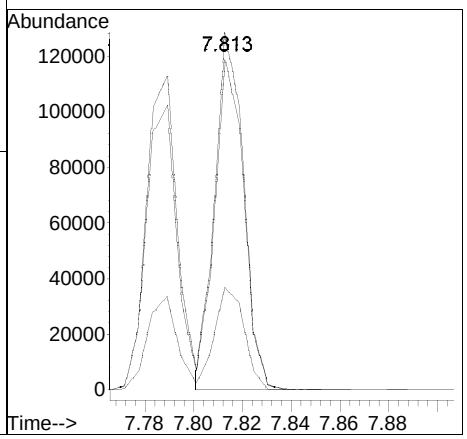


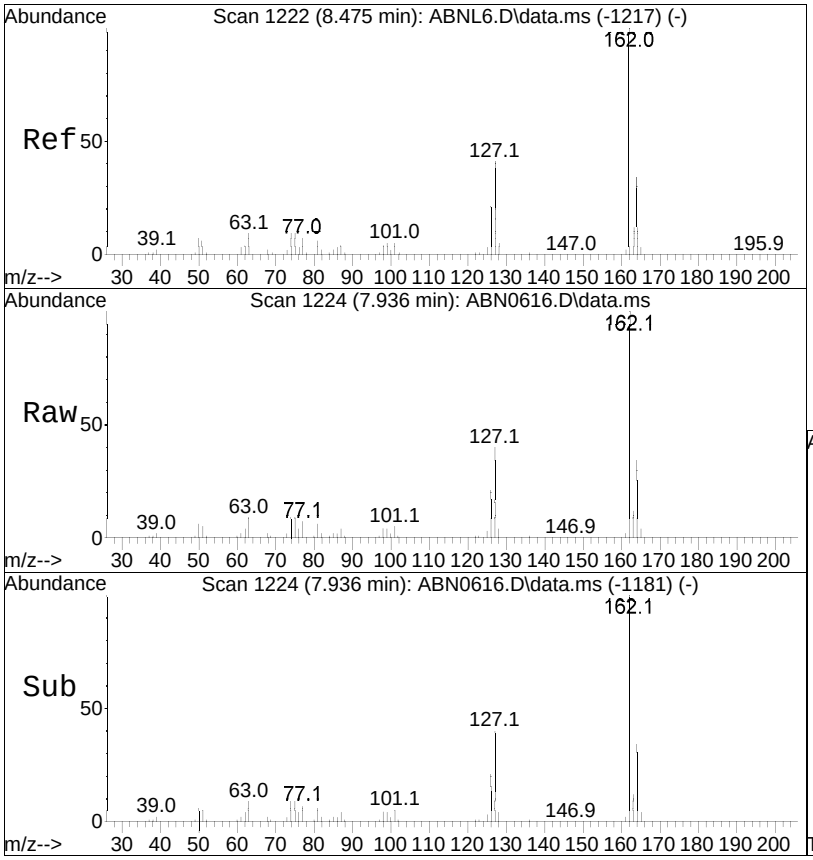


#44
2,4,5-Trichlorophenol
Concen: 5.19 ug/ml
RT: 7.813 min Scan# 1203
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:196 Resp: 105343

Ion	Ratio	Lower	Upper
196	100		
200	29.7	25.4	38.0
198	93.1	78.0	117.0

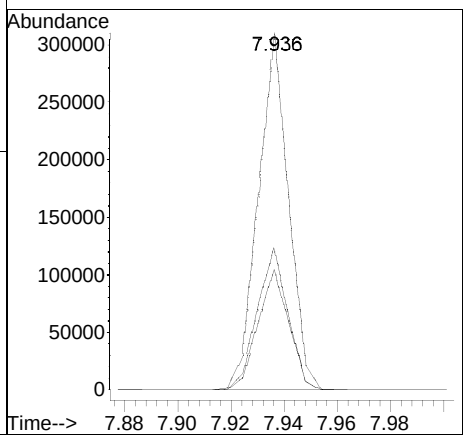


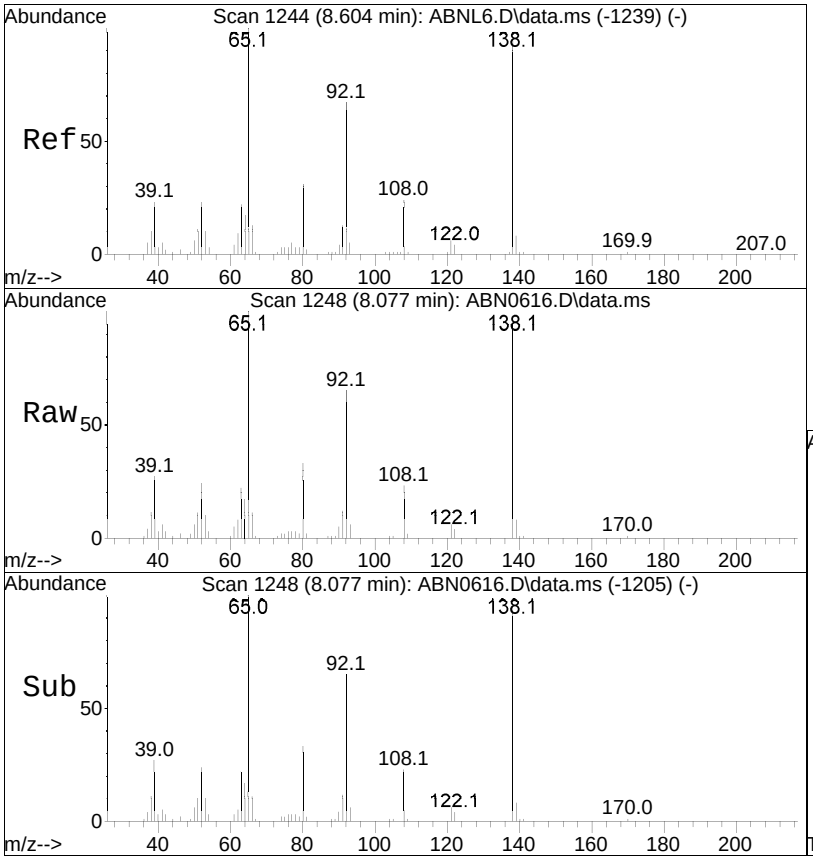


#46
2-Chloronaphthalene
Concen: 4.63 ug/ml
RT: 7.936 min Scan# 1224
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:162 Resp: 241472

Ion	Ratio	Lower	Upper
162	100		
127	40.7	32.2	48.4
164	34.8	25.7	38.5

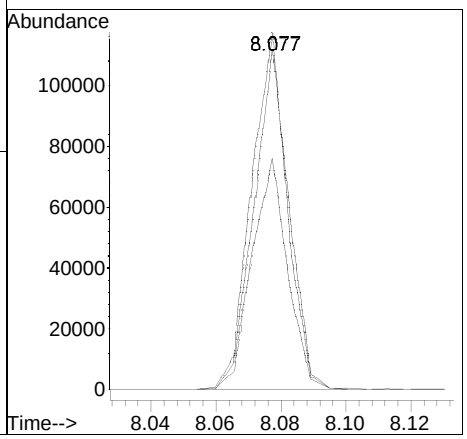


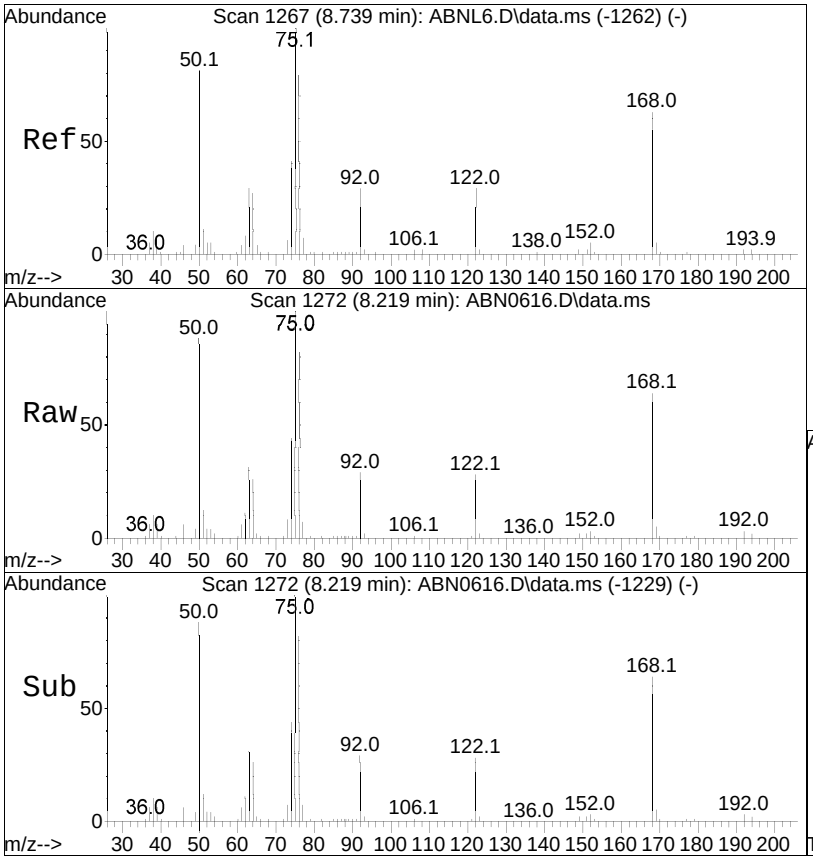


#47
2-Nitroaniline
Concen: 5.50 ug/ml
RT: 8.077 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:138 Resp: 83122

Ion	Ratio	Lower	Upper
138	100		
92	69.0	53.5	80.3
65	106.3	86.3	129.5

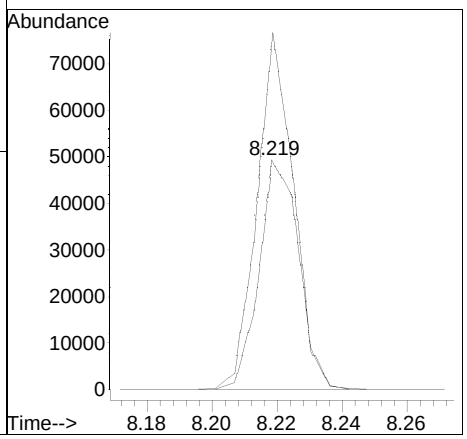


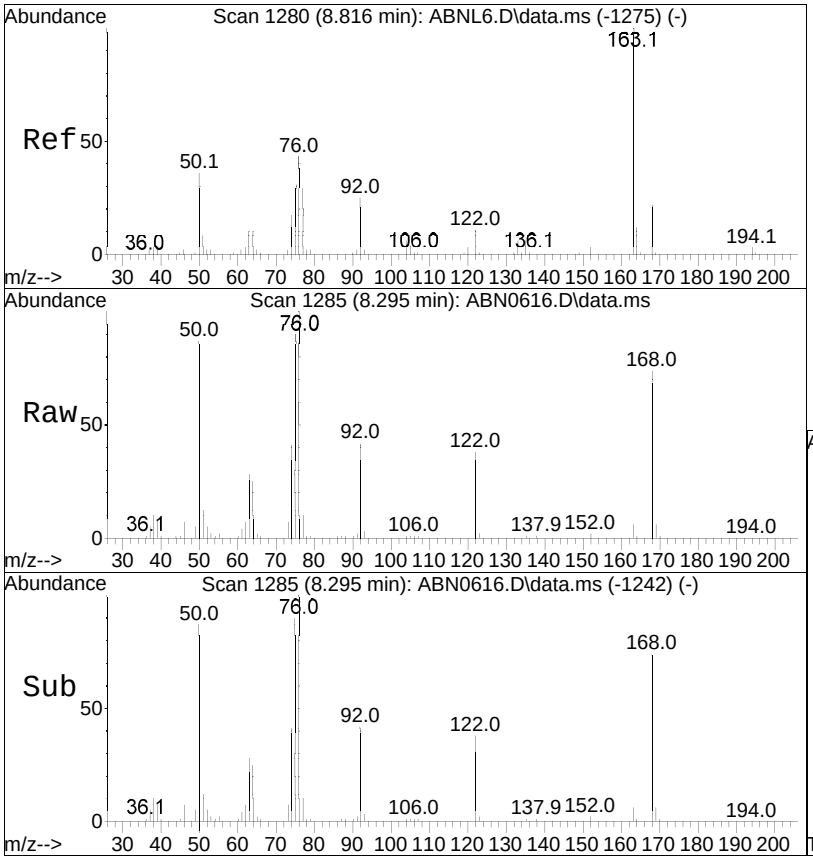


#48
1,4-Dinitrobenzene
Concen: 5.23 ug/ml
RT: 8.219 min Scan# 1272
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:168 Resp: 41830

Ion	Ratio	Lower	Upper
168	100		
75	142.6	121.8	182.8

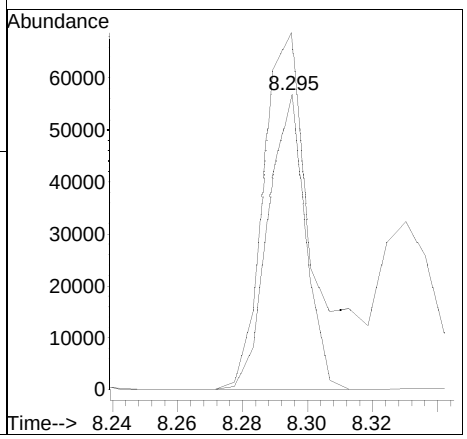


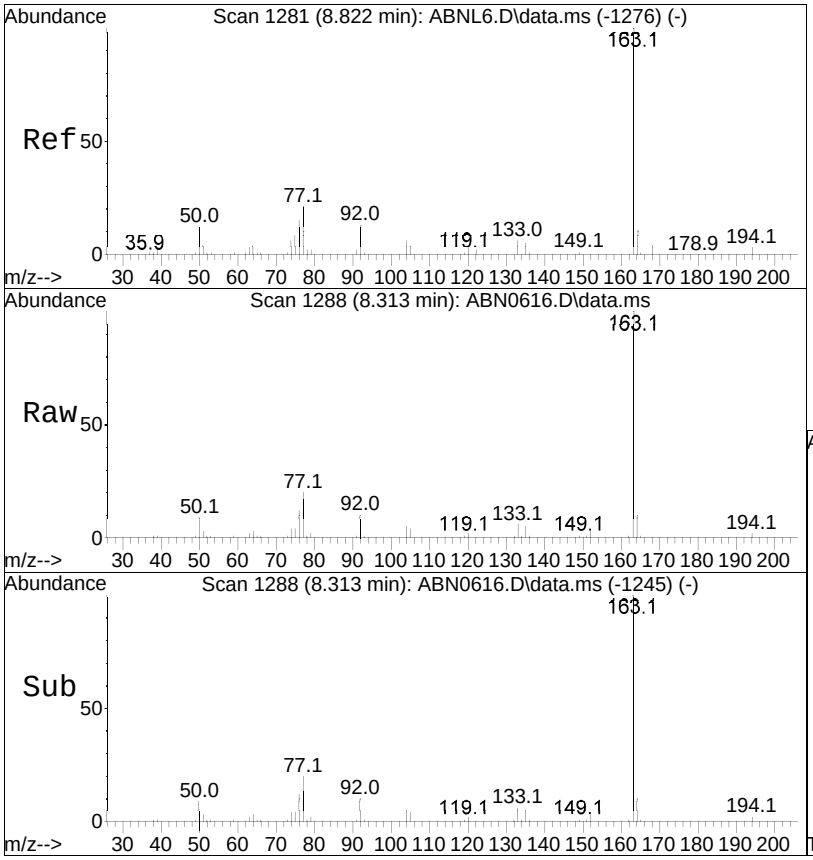


#49
1,3-Dinitrobenzene
Concen: 4.99 ug/ml
RT: 8.295 min Scan# 1285
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:168 Resp: 45649

Ion	Ratio	Lower	Upper
168	100		
75	165.0	22.7	34.1#

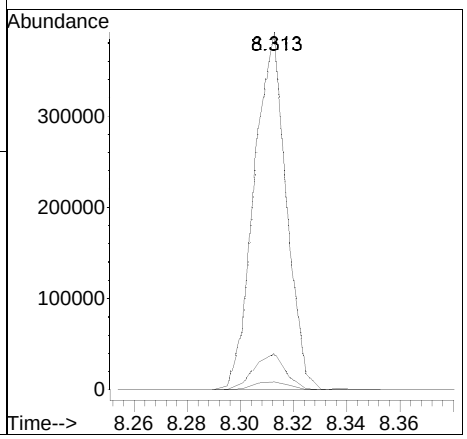


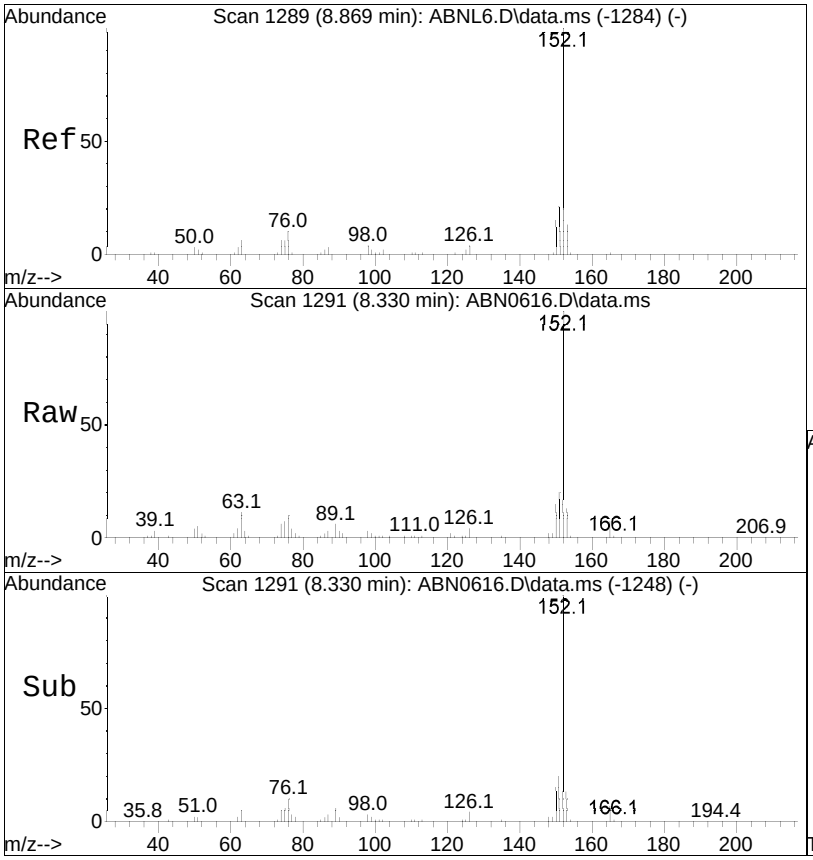


#50
Dimethyl phthalate
Concen: 4.71 ug/ml
RT: 8.313 min Scan# 1288
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:163 Resp: 324662

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.1	7.9	11.9

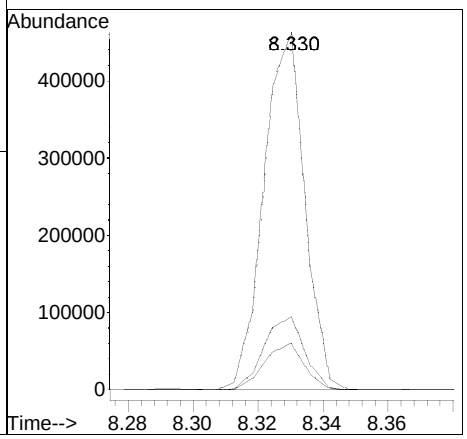


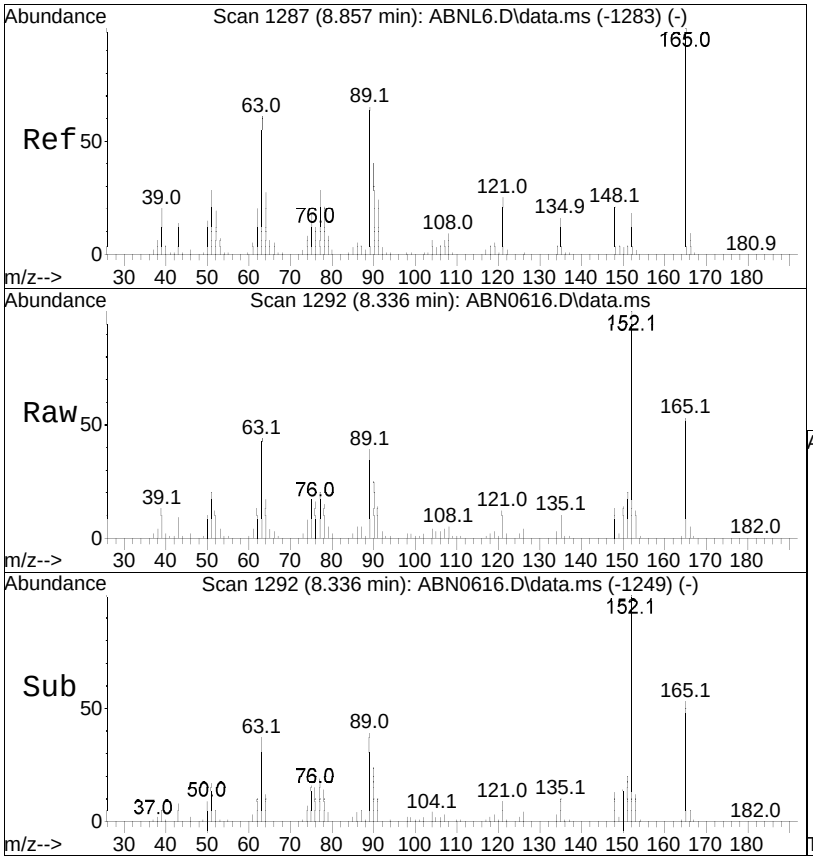


#51
Acenaphthylene
Concen: 4.94 ug/ml
RT: 8.330 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:152 Resp: 400849

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	13.0	10.5	15.7

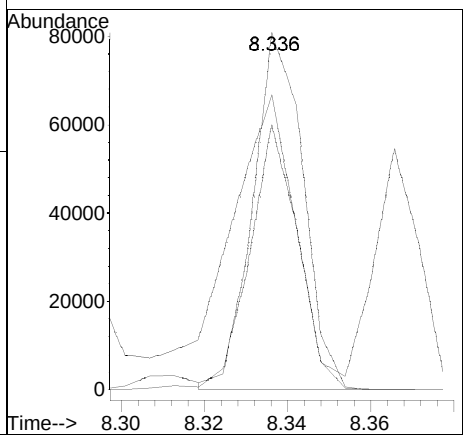


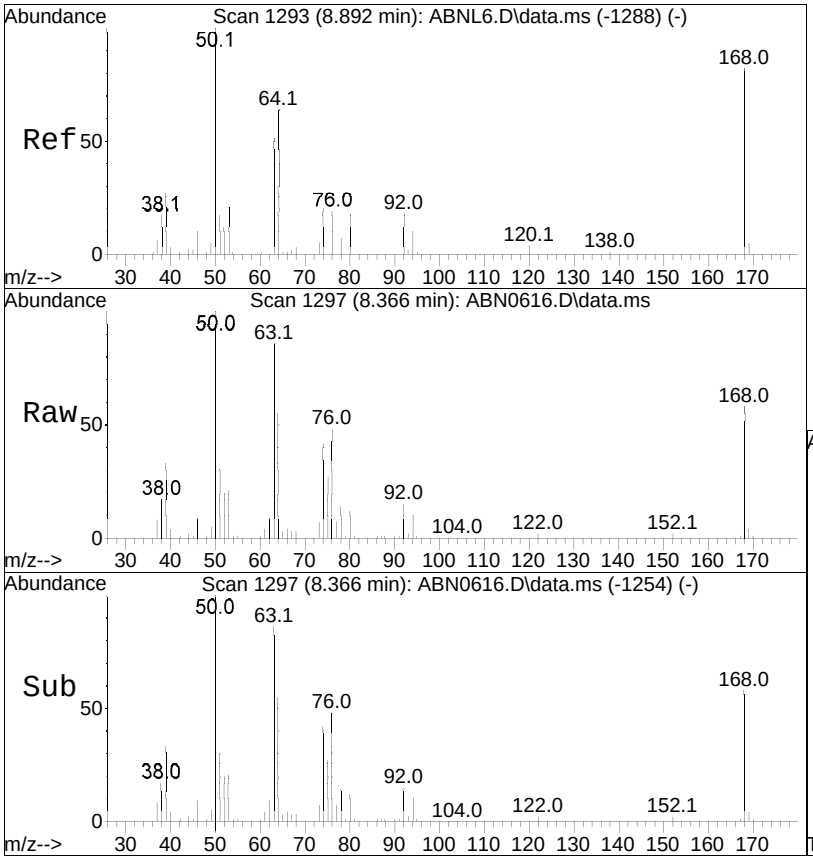


#52
2,6-Dinitrotoluene
Concen: 4.90 ug/ml M6
RT: 8.336 min Scan# 1292
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:165 Resp: 67874

Ion	Ratio	Lower	Upper
165	100		
89	72.2	54.2	81.2
63	111.1	64.2	96.2#

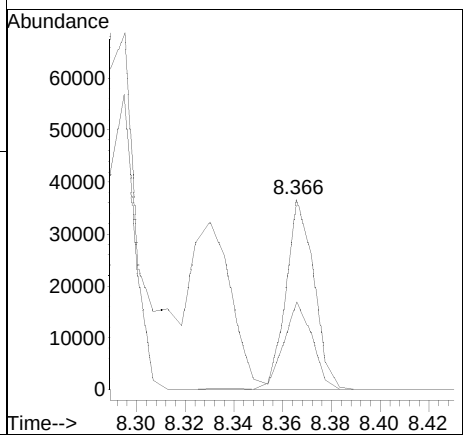


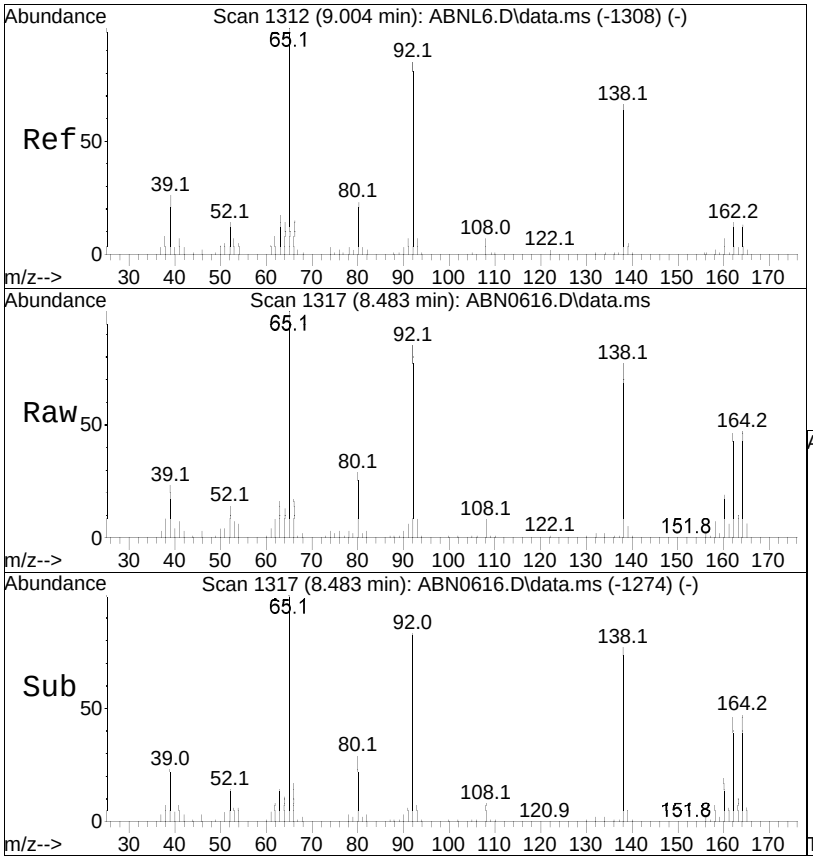


#53
1,2-Dinitrobenzene
Concen: 5.38 ug/ml
RT: 8.366 min Scan# 1297
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:168 Resp: 29316

Ion	Ratio	Lower	Upper
168	100		
75	45.4	30.9	46.3

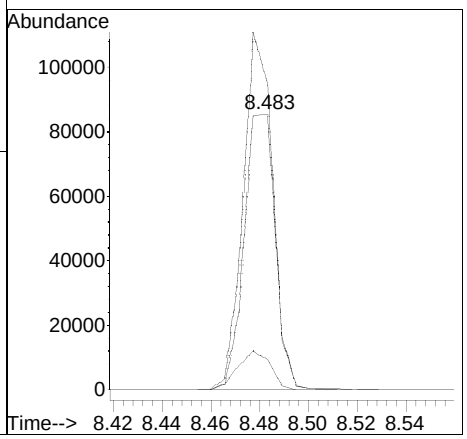


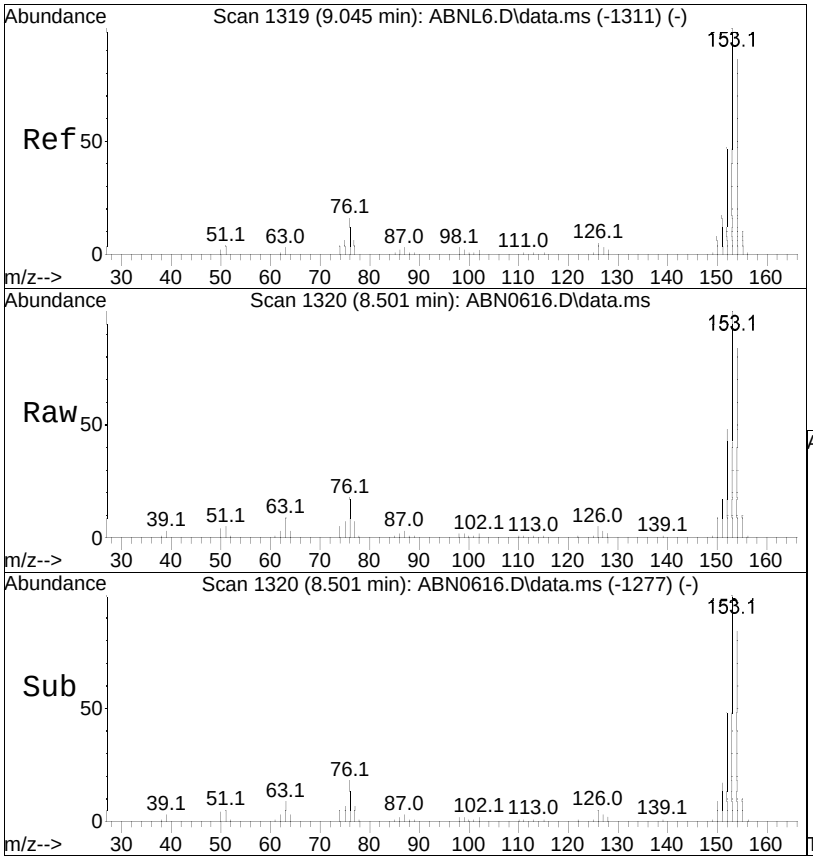


#63
3-Nitroaniline
Concen: 5.79 ug/ml
RT: 8.483 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:138 Resp: 75454

Ion	Ratio	Lower	Upper
138	100		
92	122.1	93.4	140.2
108	15.0	9.5	14.3#

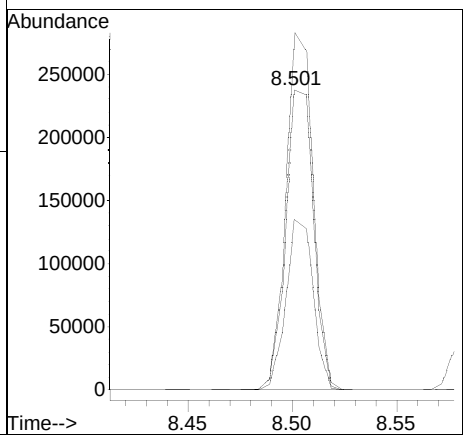


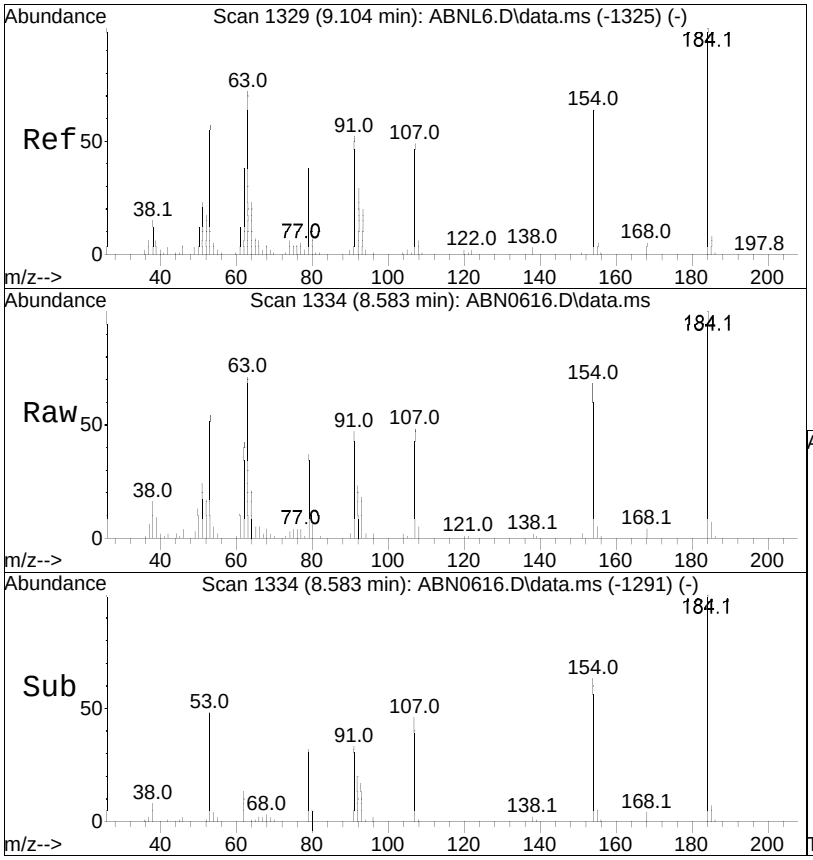


#64
Acenaphthene
Concen: 4.99 ug/ml
RT: 8.501 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:154 Resp: 220012

Ion	Ratio	Lower	Upper
154	100		
153	116.5	85.3	127.9
152	55.7	41.4	62.0

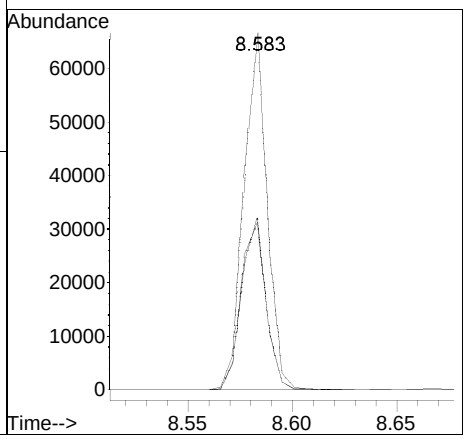


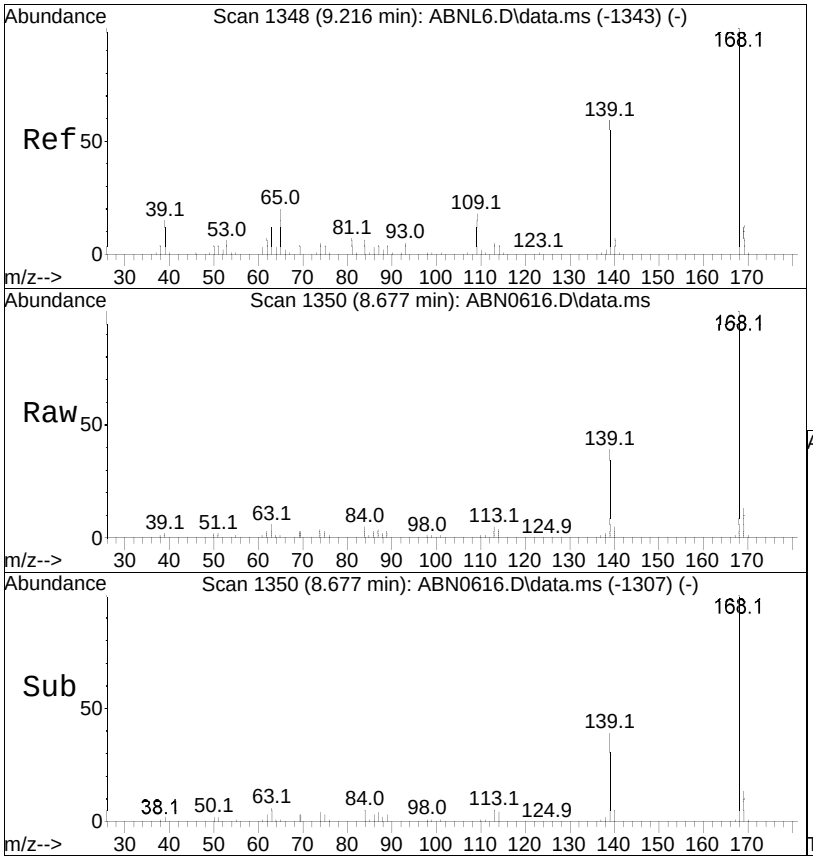


#65
2,4-Dinitrophenol
Concen: 6.16 ug/ml
RT: 8.583 min Scan# 1334
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:184 Resp: 51120

Ion	Ratio	Lower	Upper
184	100		
107	50.5	37.7	56.5
91	50.9	46.3	69.5

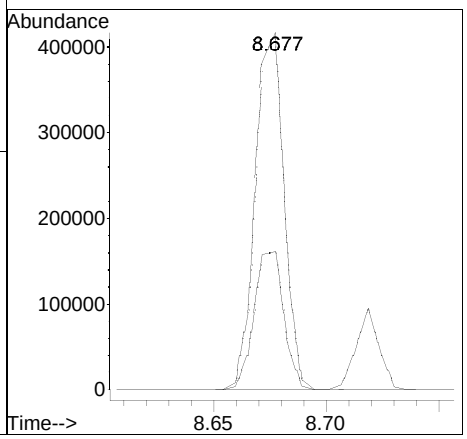


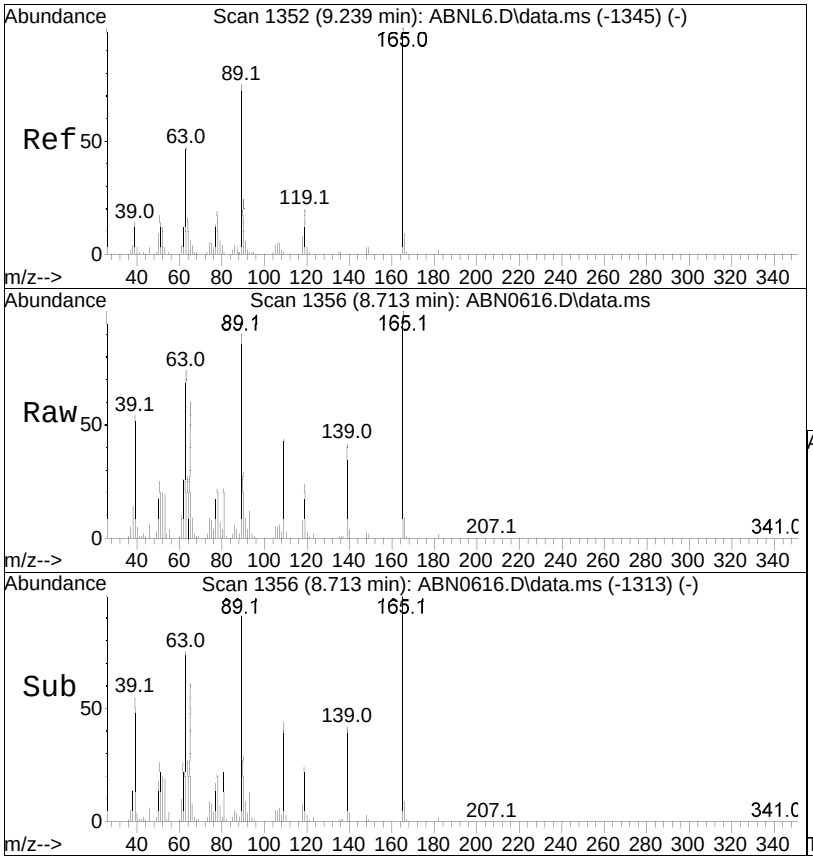


#66
Dibenzofuran
Concen: 4.76 ug/ml
RT: 8.677 min Scan# 1350
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:168 Resp: 367260

Ion	Ratio	Lower	Upper
168	100		
139	40.5	31.4	47.2

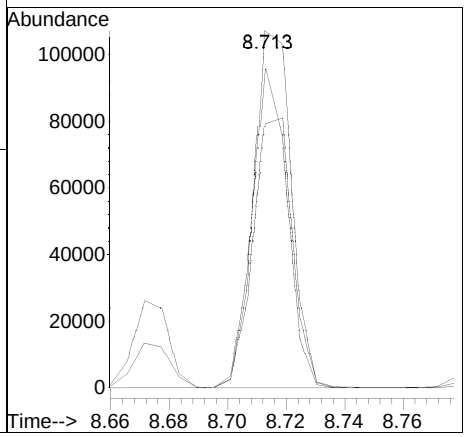


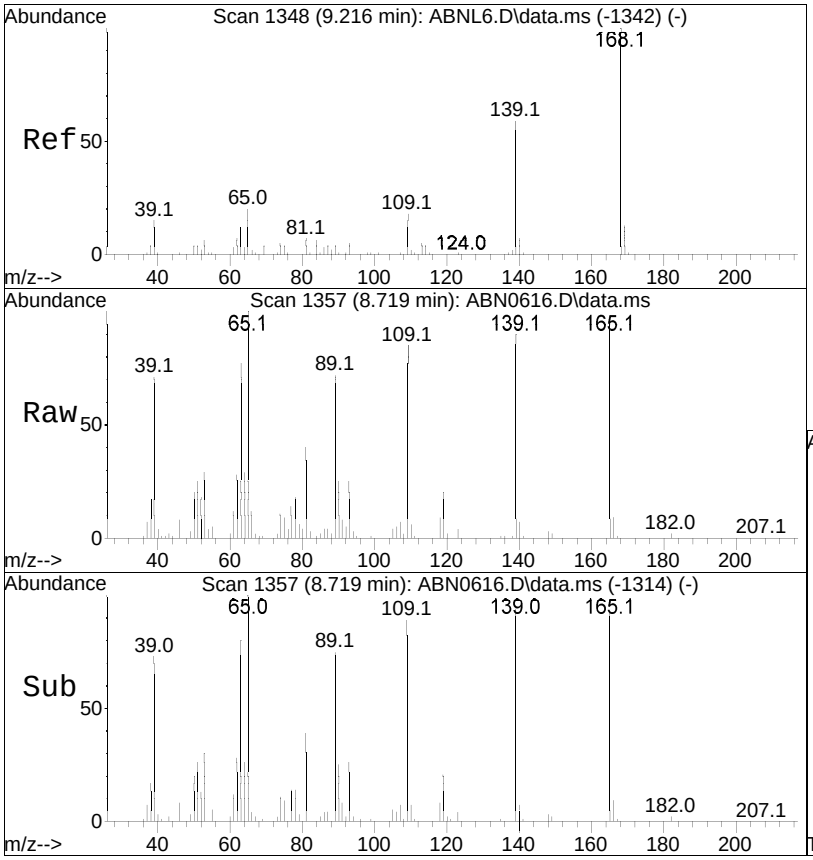


#67
2,4-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 8.713 min Scan# 1356
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:165 Resp: 96287

Ion	Ratio	Lower	Upper
165	100		
89	83.2	72.0	108.0
63	78.6	52.7	79.1

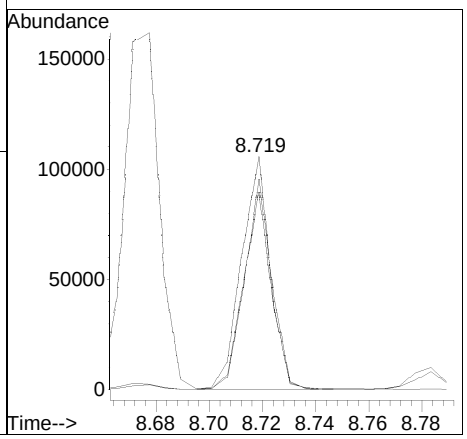


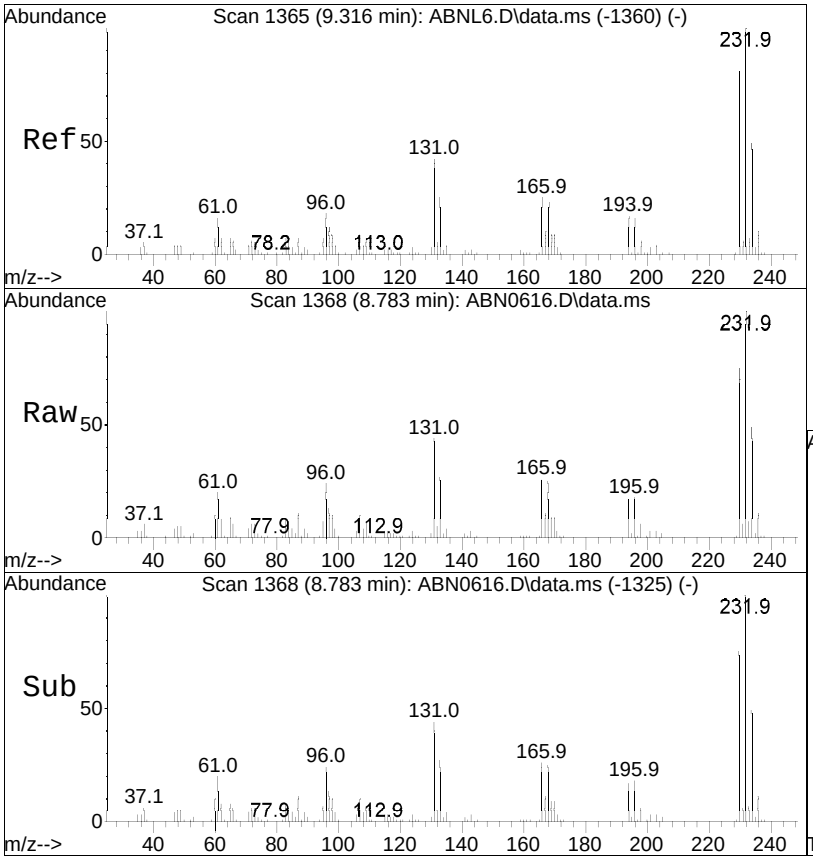


#68
4-Nitrophenol
Concen: 5.68 ug/ml
RT: 8.719 min Scan# 1357
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 65 Resp: 79536

Ion	Ratio	Lower	Upper
65	100		
109	81.5	47.4	71.2#
139	84.9	76.6	115.0

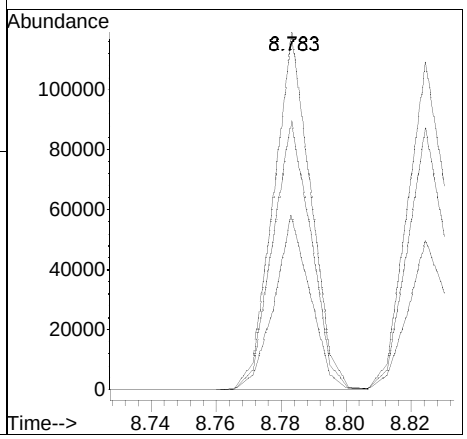


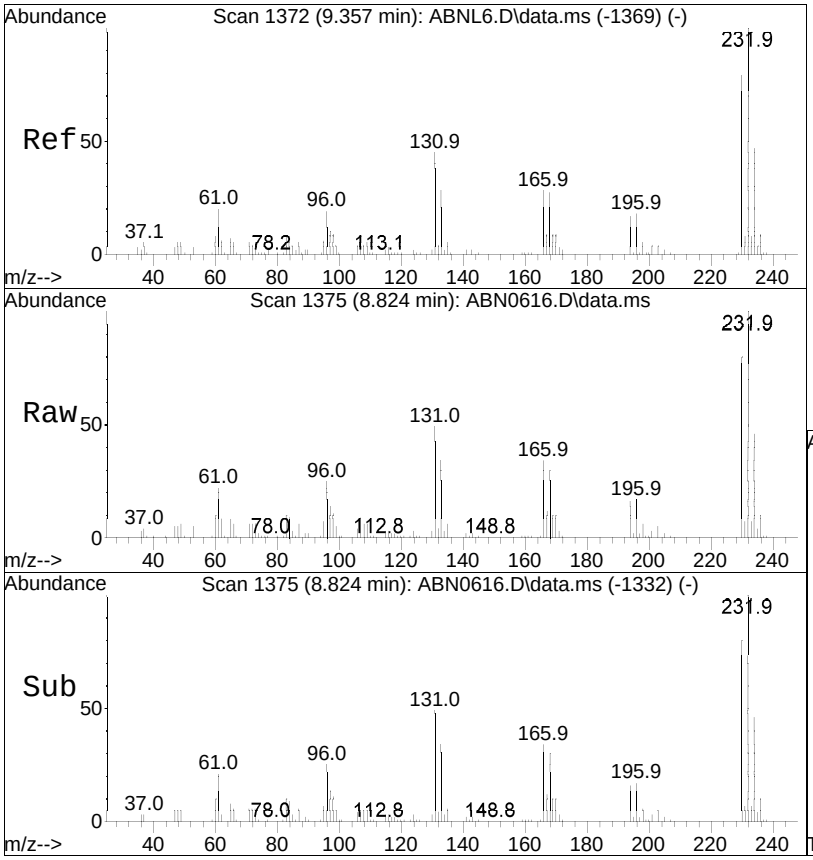


#69
2,3,5,6-Tetrachlorophenol
Concen: 6.04 ug/ml
RT: 8.783 min Scan# 1368
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:232 Resp: 94771

Ion	Ratio	Lower	Upper
232	100		
230	77.3	64.2	96.4
234	46.9	38.1	57.1

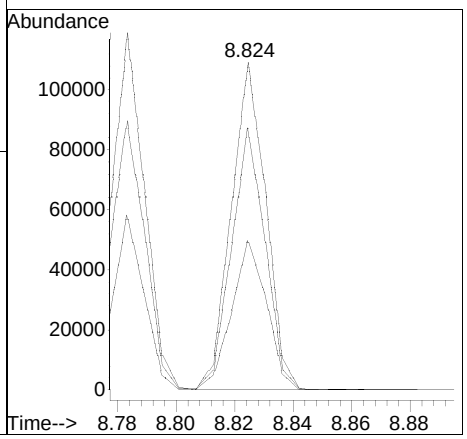


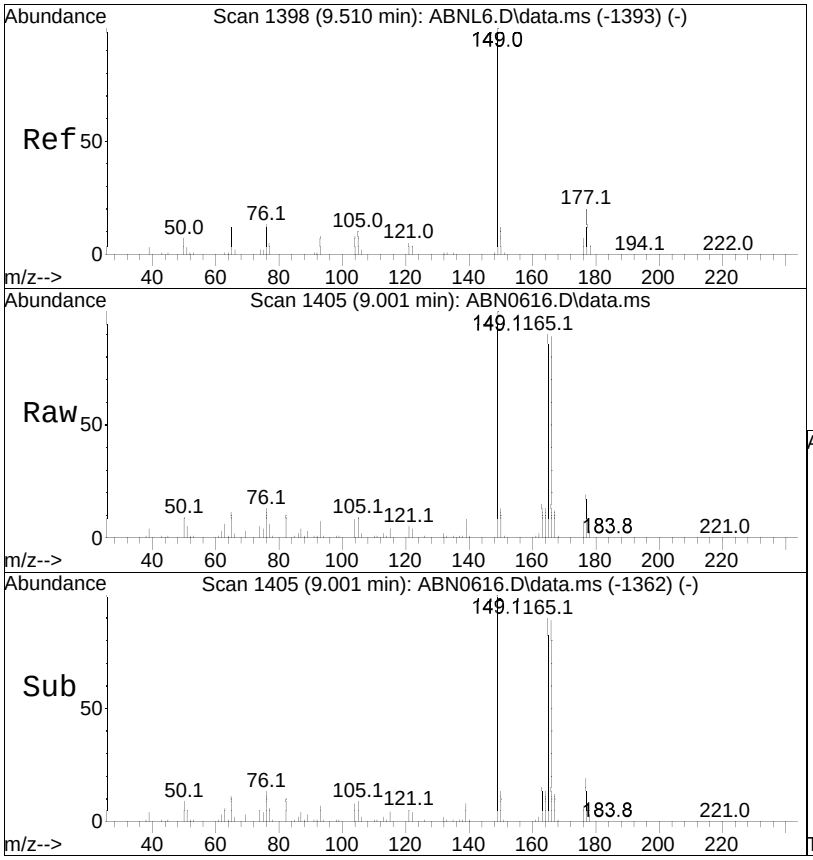


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.83 ug/ml
RT: 8.824 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:232 Resp: 89915

Ion	Ratio	Lower	Upper
232	100		
230	77.8	61.8	92.8
234	46.2	36.2	54.2

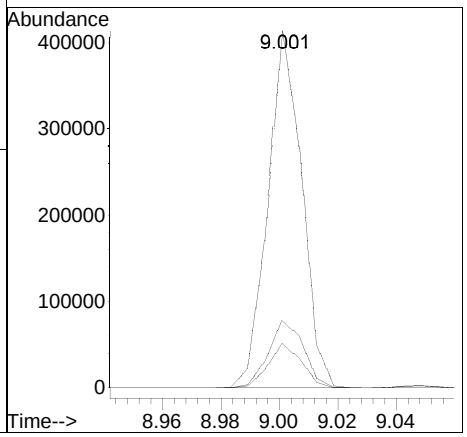


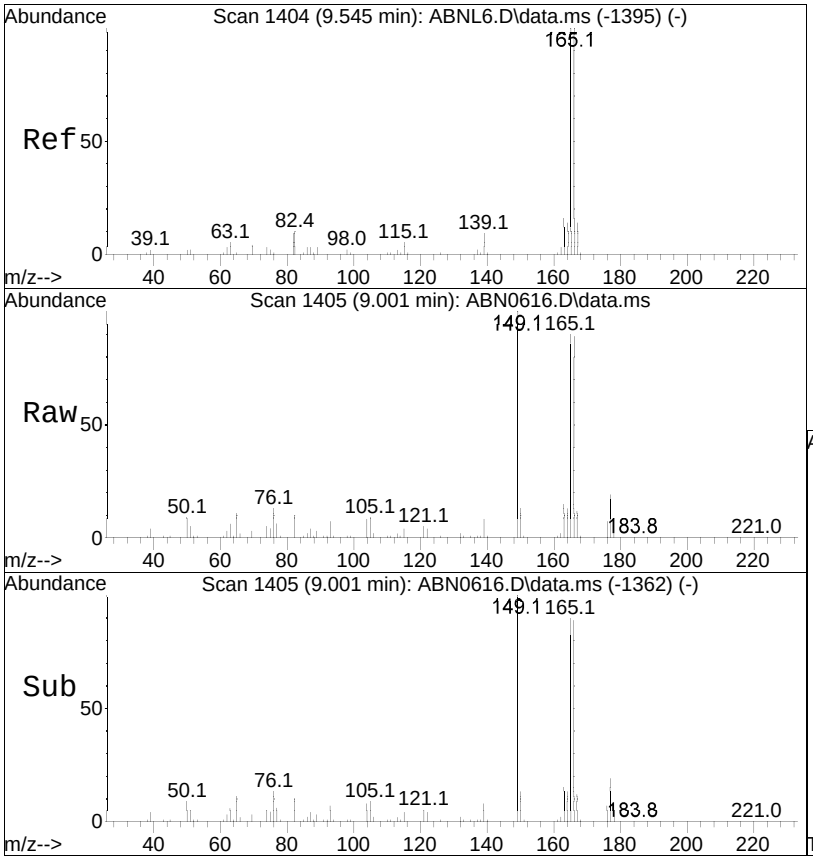


#71
Diethyl phthalate
Concen: 5.15 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:149 Resp: 331310

Ion	Ratio	Lower	Upper
149	100		
177	19.7	16.1	24.1
150	12.4	9.4	14.2

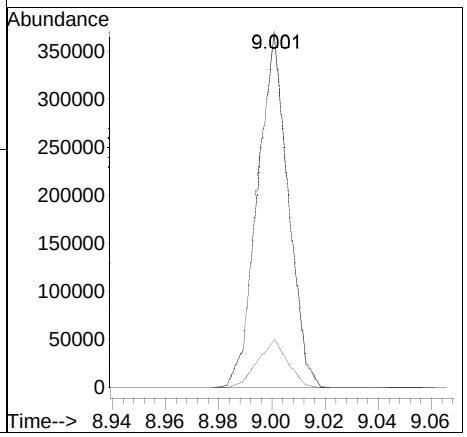


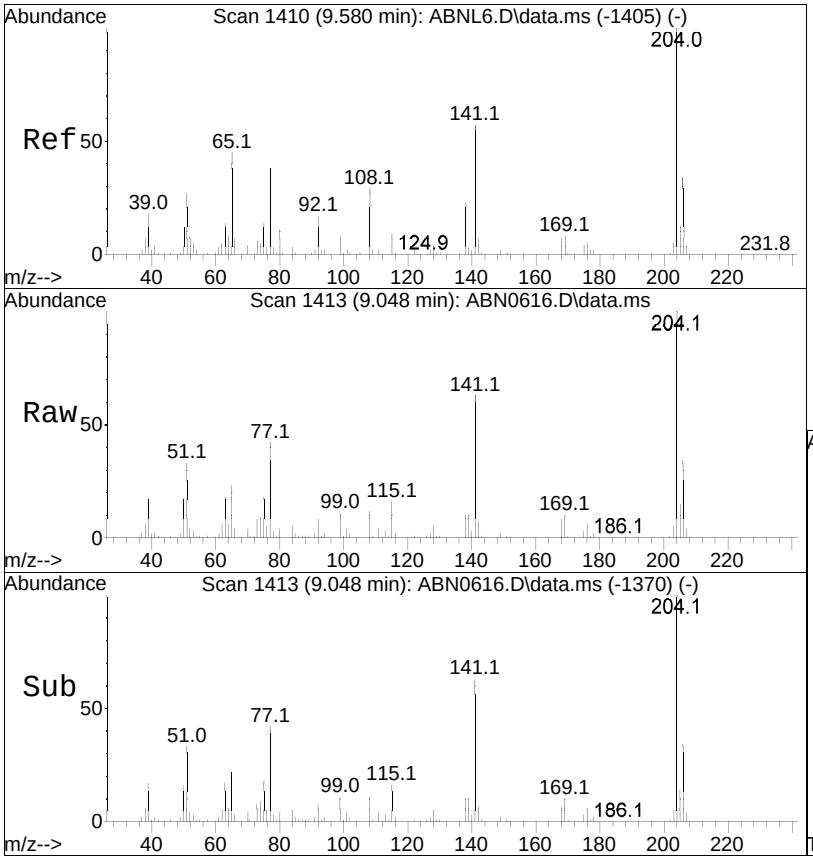


#72
Fluorene
Concen: 4.86 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:166 Resp: 294742

Ion	Ratio	Lower	Upper
166	100		
165	100.8	76.2	114.2
167	13.5	10.6	15.8

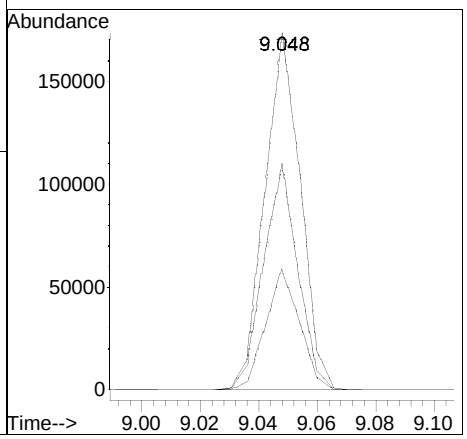


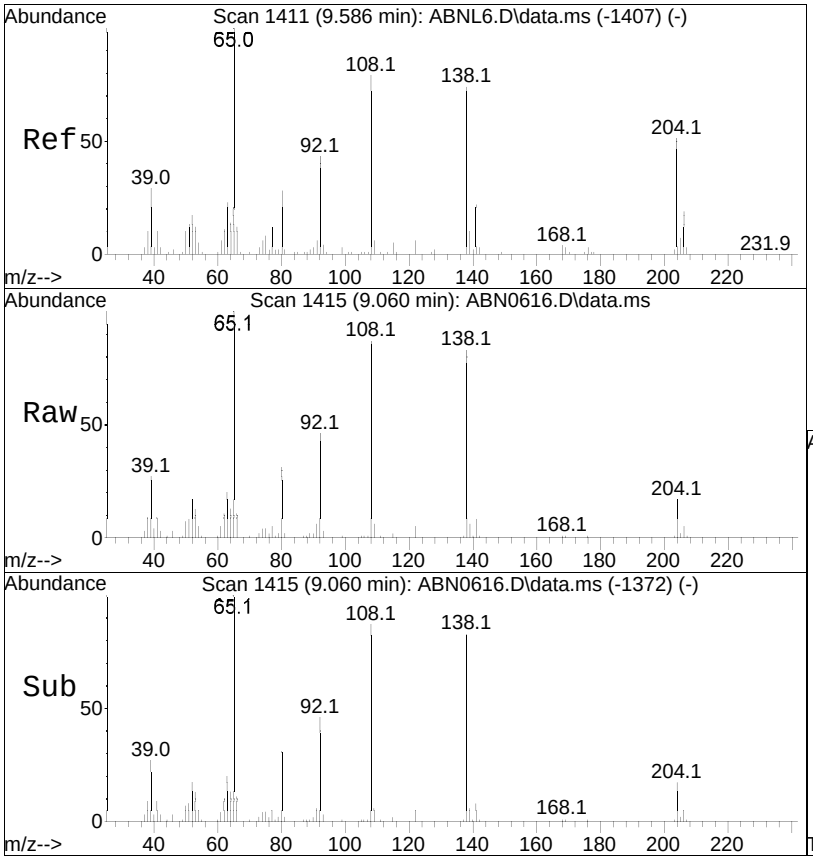


#73
4-Chlorophenyl phenyl ether
Concen: 4.56 ug/ml
RT: 9.048 min Scan# 1413
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:204 Resp: 145605

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.6
141	61.1	53.6	80.4

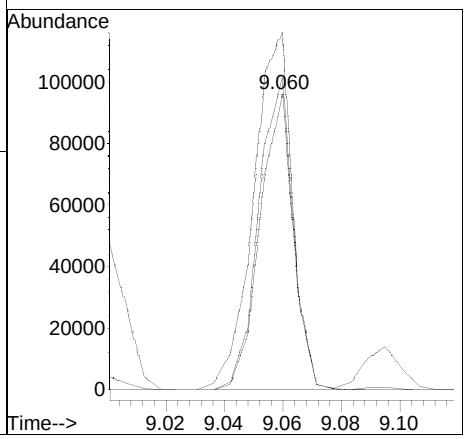


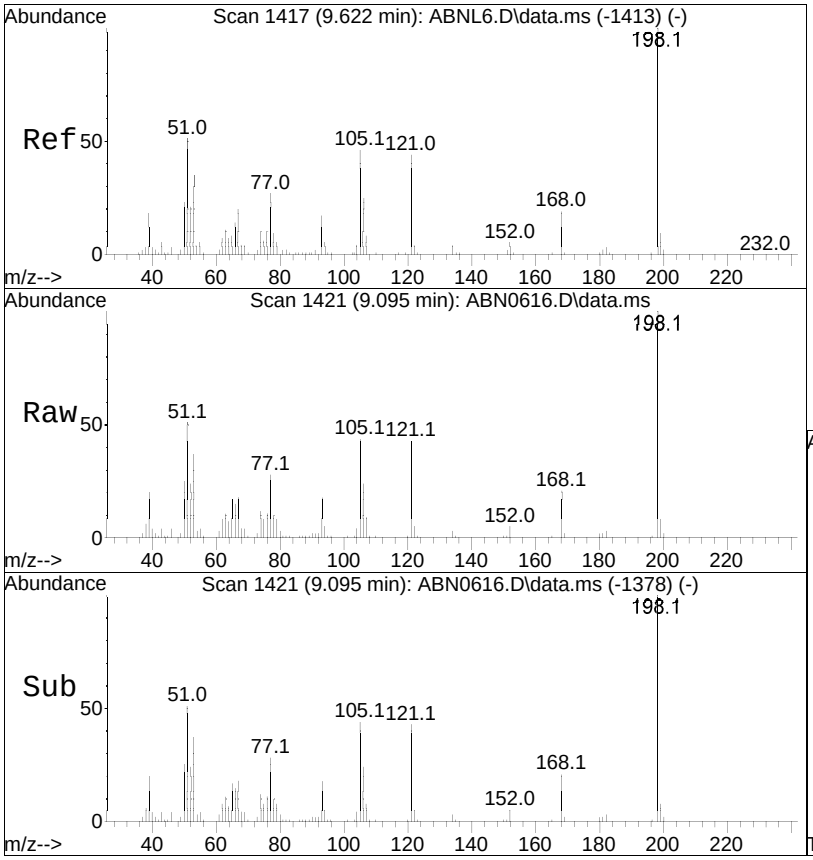


#74
4-Nitroaniline
Concen: 5.92 ug/ml
RT: 9.060 min Scan# 1415
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:138 Resp: 75624

Ion	Ratio	Lower	Upper
138	100		
108	109.5	52.1	78.1#
65	140.6	115.0	172.6

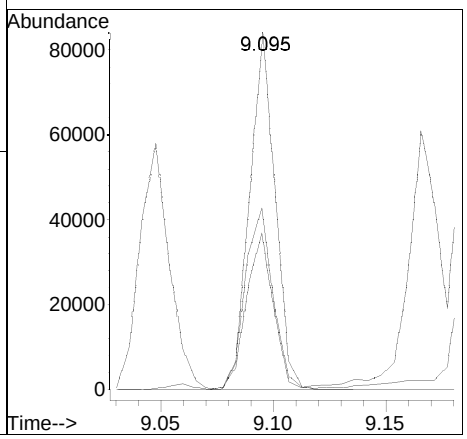


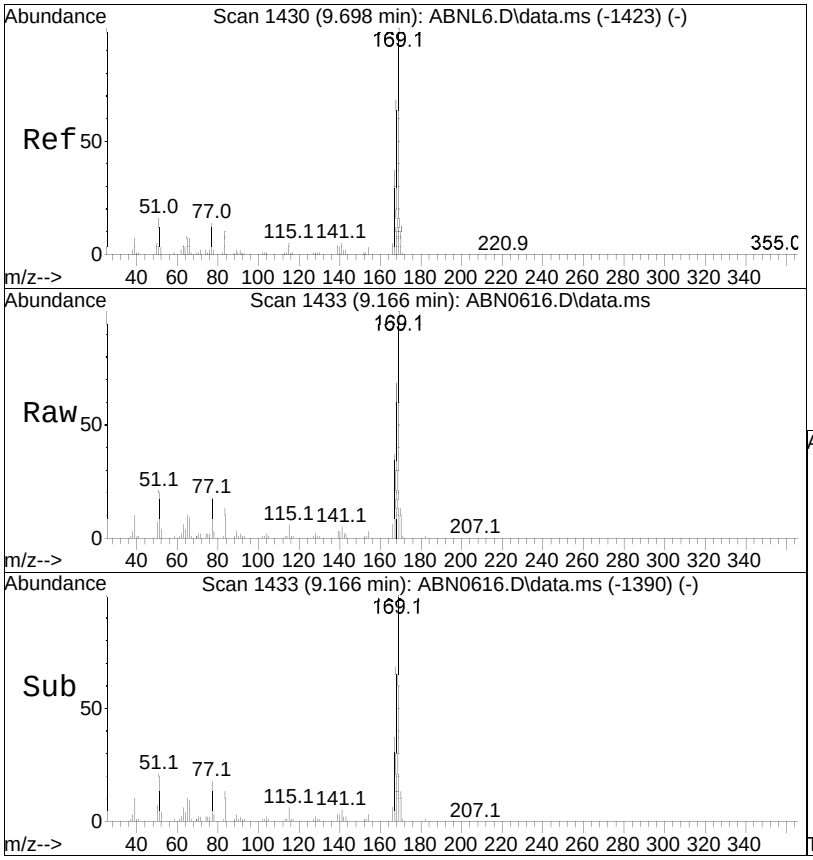


#75
4,6-Dinitro-o-cresol
Concen: 6.66 ug/ml
RT: 9.095 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:198 Resp: 66564

Ion	Ratio	Lower	Upper
198	100		
51	56.3	76.0	114.0#
105	46.5	45.6	68.4

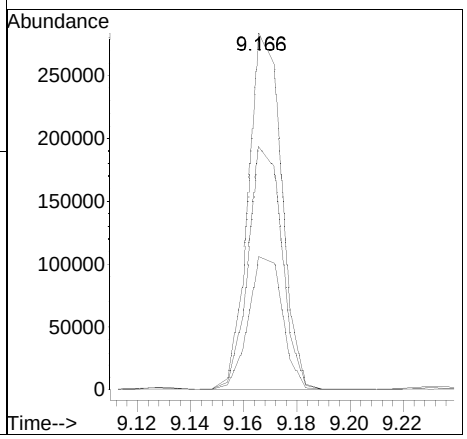


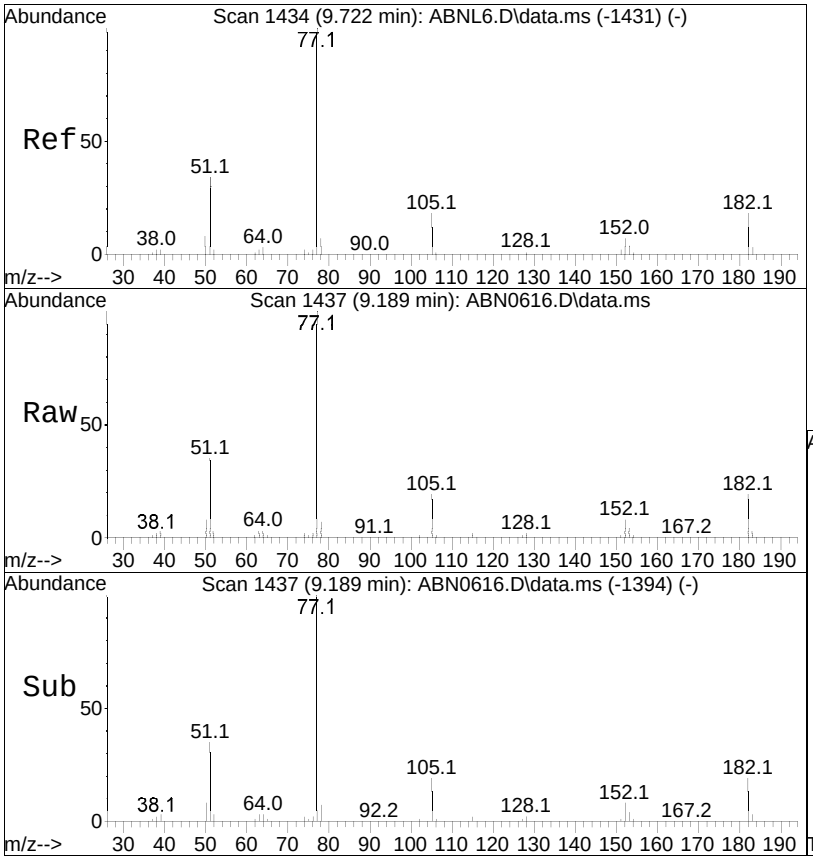


#76
NDPA/DPA
Concen: 4.97 ug/ml
RT: 9.166 min Scan# 1433
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:169 Resp: 248373

Ion	Ratio	Lower	Upper
169	100		
168	68.8	54.0	81.0
167	38.1	28.6	42.8

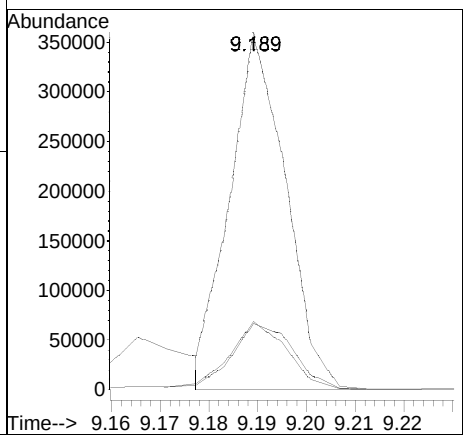


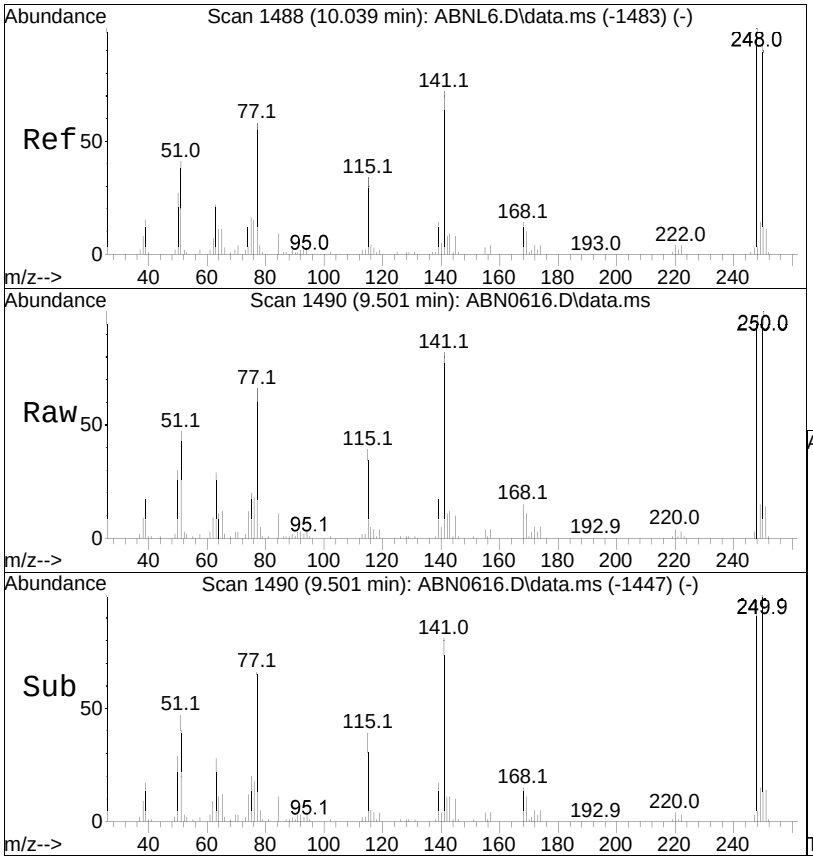


#77
Azobenzene
Concen: 4.43 ug/ml M6
RT: 9.189 min Scan# 1437
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion: 77 Resp: 282196

Ion	Ratio	Lower	Upper
77	100		
182	21.4	17.4	26.2
105	21.6	15.4	23.2

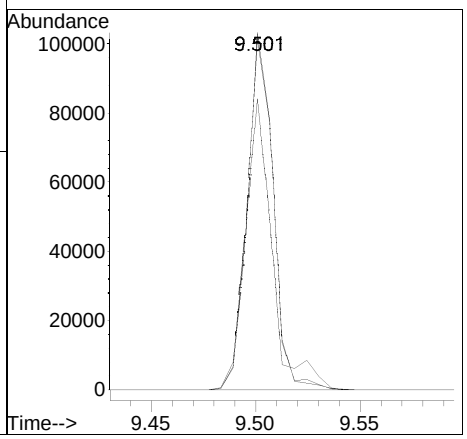


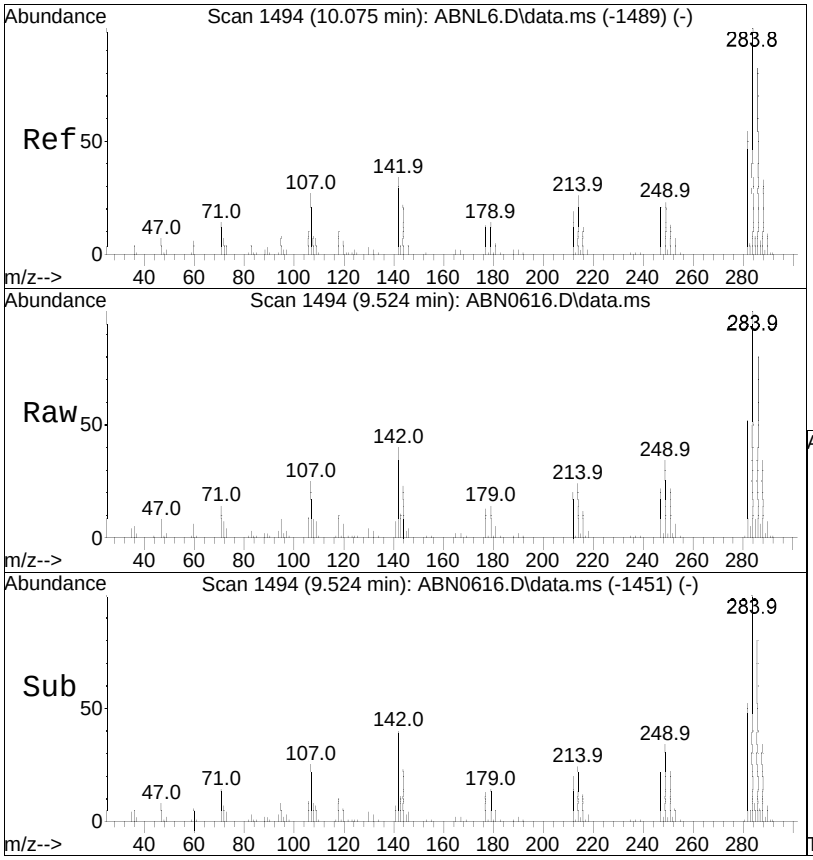


#79
4-Bromophenyl phenyl ether
Concen: 4.60 ug/ml
RT: 9.501 min Scan# 1490
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:248 Resp: 87517

Ion	Ratio	Lower	Upper
248	100		
141	85.4	76.6	114.8
250	100.5	77.3	115.9

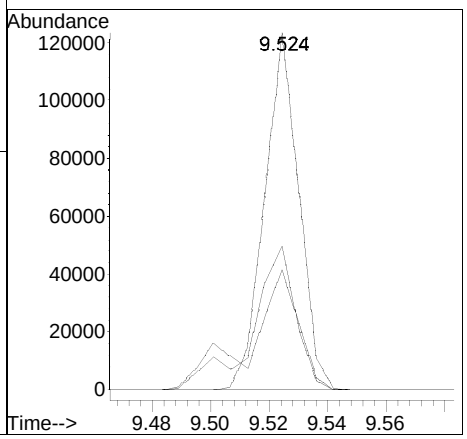


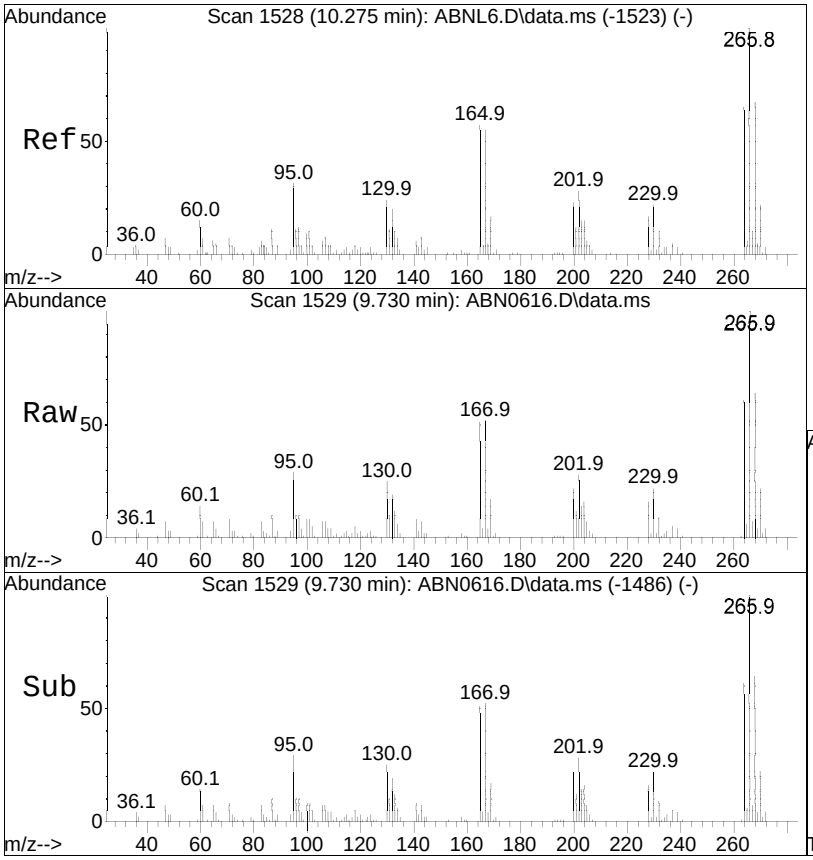


#80
Hexachlorobenzene
Concen: 4.56 ug/ml
RT: 9.524 min Scan# 1494
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:284 Resp: 100317

Ion	Ratio	Lower	Upper
284	100		
142	51.4	41.9	62.9
249	48.2	24.1	36.1#

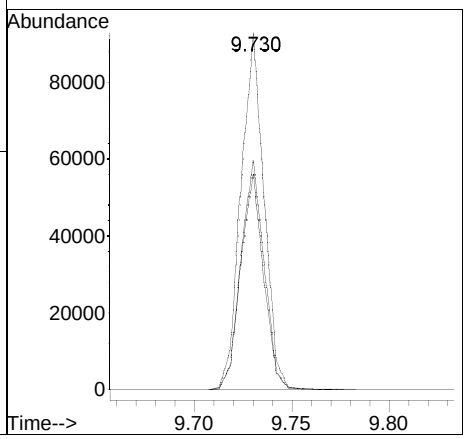


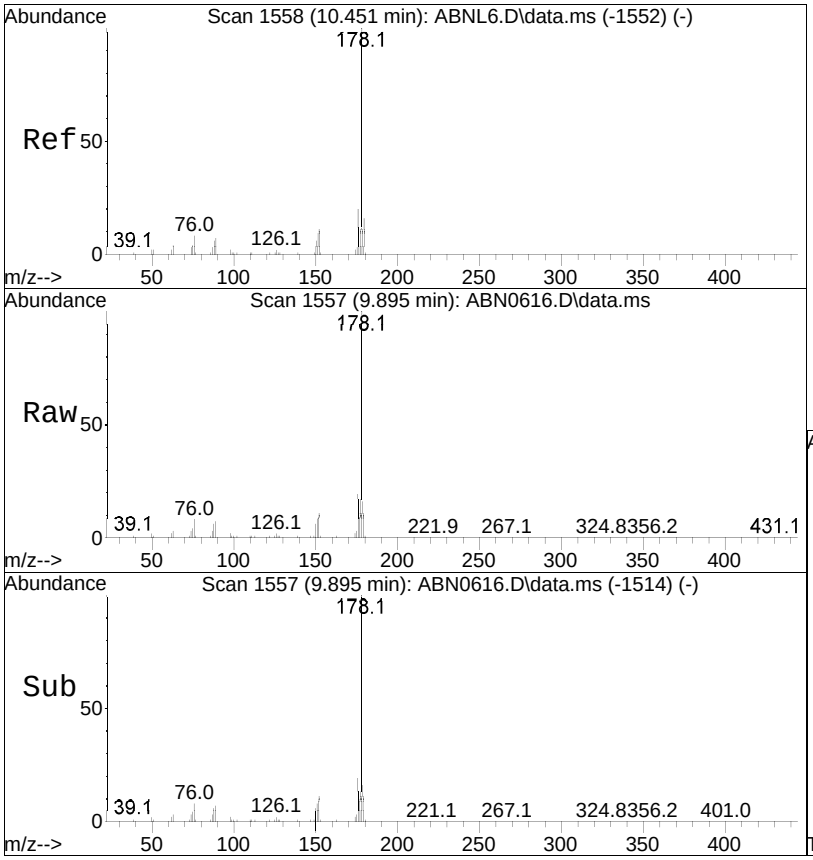


#81
Pentachlorophenol
Concen: 5.91 ug/ml
RT: 9.730 min Scan# 1529
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:266 Resp: 75827

Ion	Ratio	Lower	Upper
266	100		
264	60.4	49.7	74.5
268	65.0	50.5	75.7

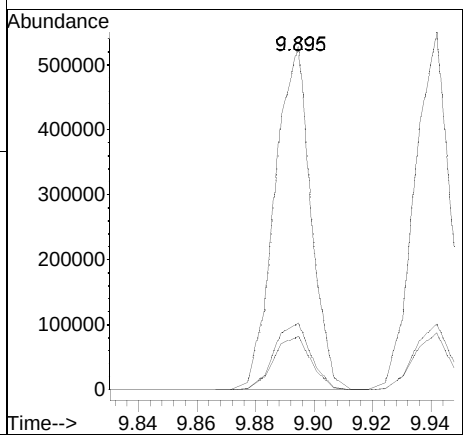


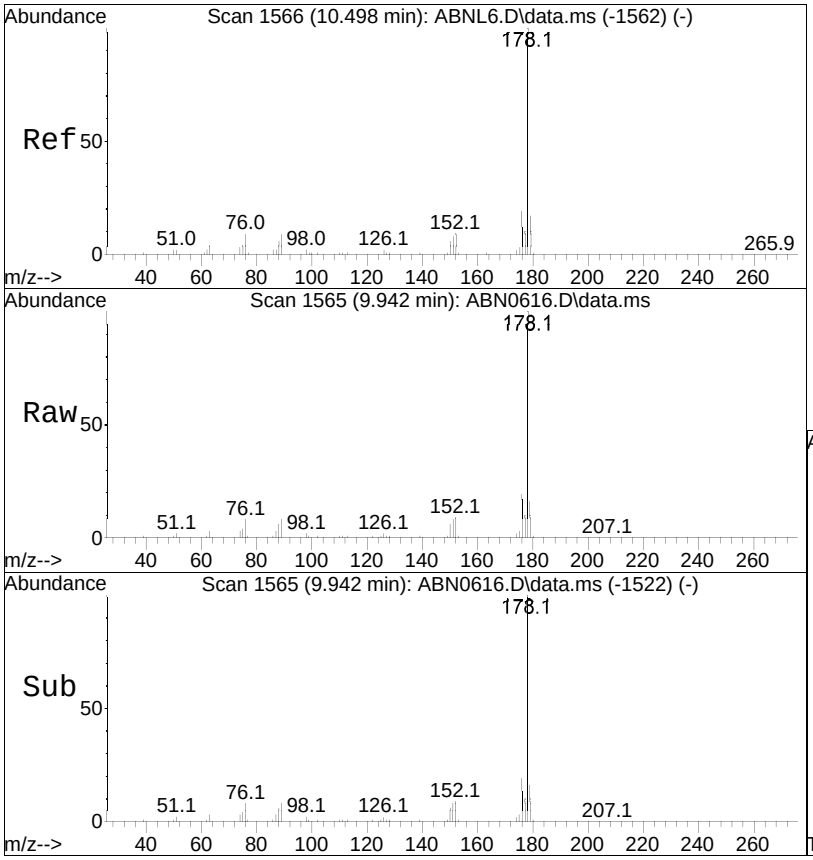


#88
Phenanthrene
Concen: 4.81 ug/ml
RT: 9.895 min Scan# 1557
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:178 Resp: 454408

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.2
176	19.7	15.4	23.2

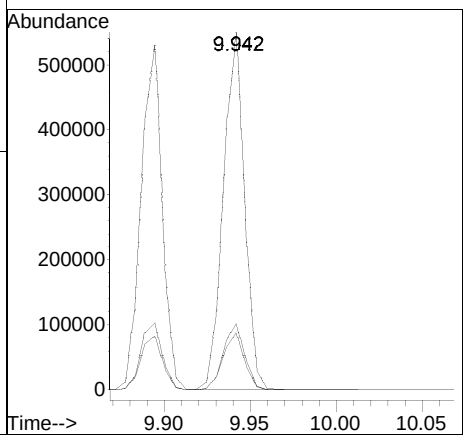


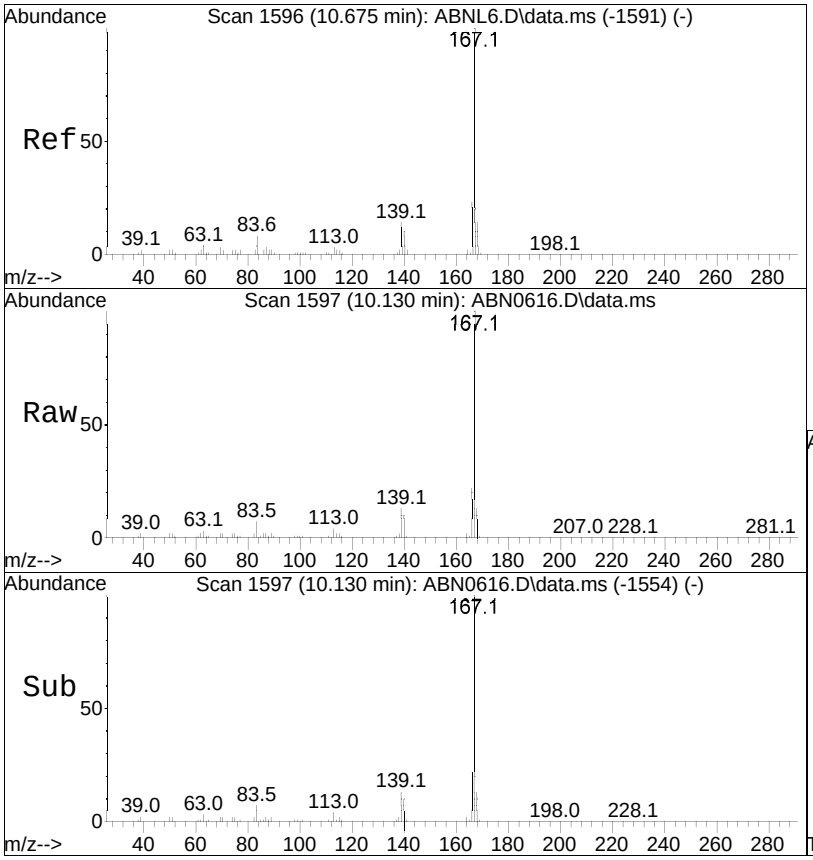


#89
Anthracene
Concen: 5.03 ug/ml
RT: 9.942 min Scan# 1565
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:178 Resp: 469849

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.0	18.0
176	18.6	14.6	22.0

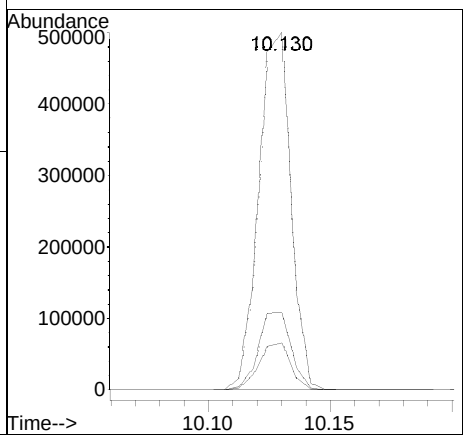


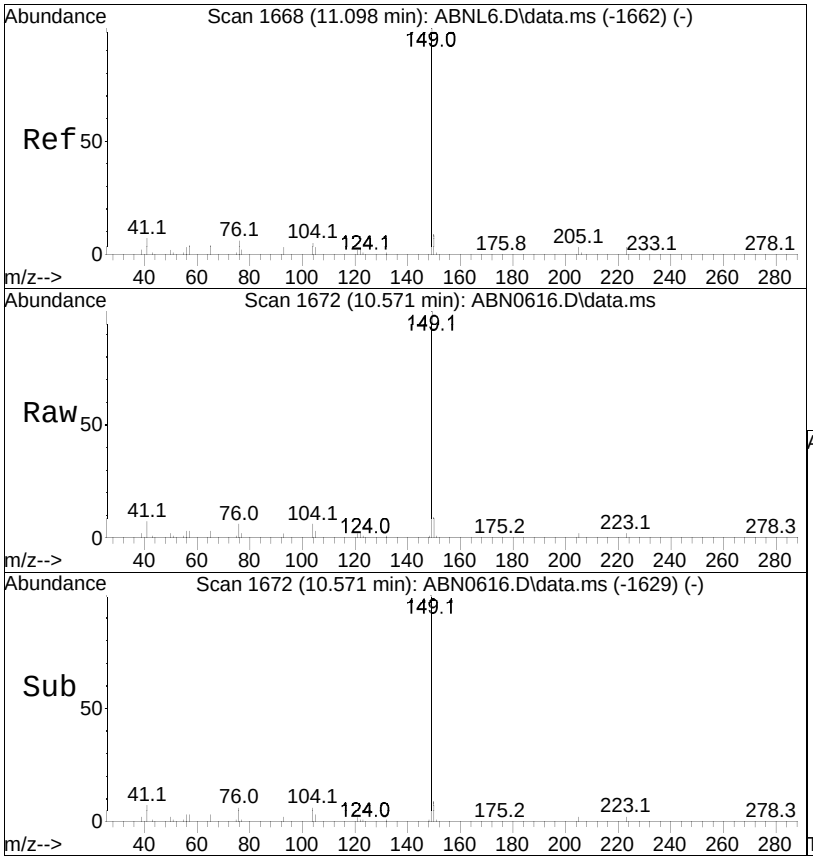


#90
Carbazole
Concen: 5.30 ug/ml
RT: 10.130 min Scan# 1597
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:167 Resp: 453287

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.3	17.4	26.0

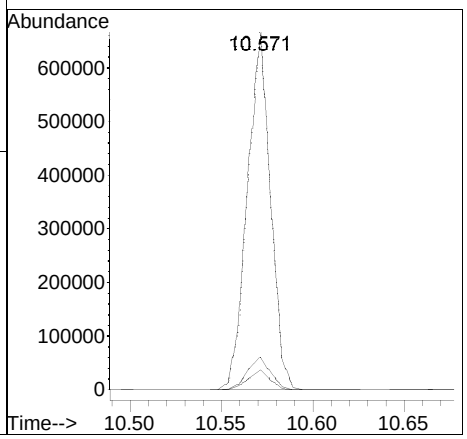


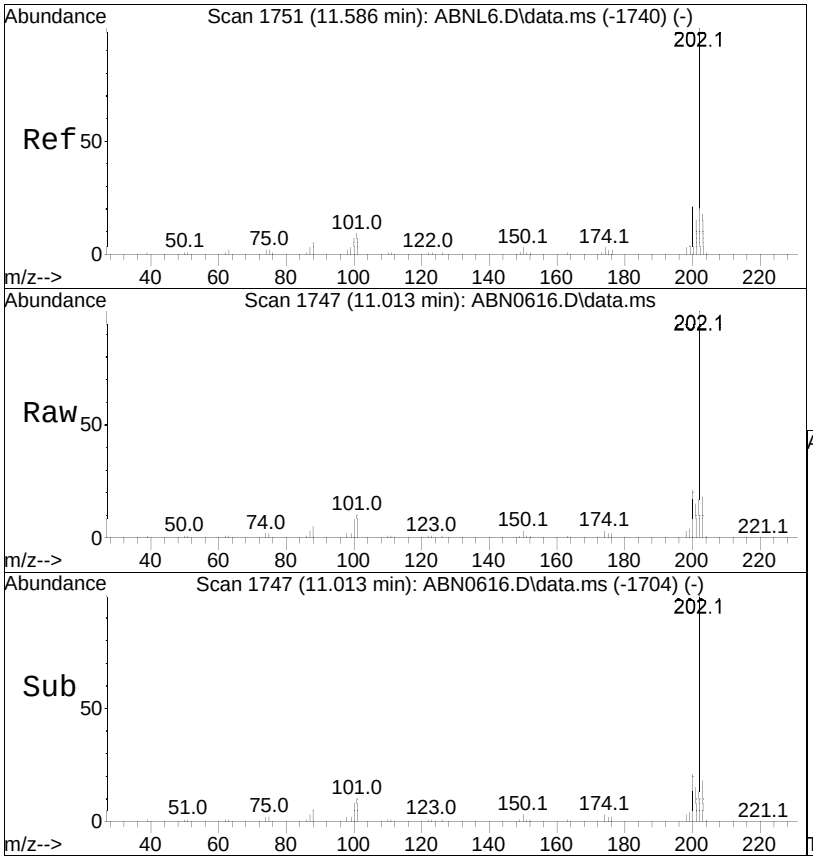


#91
Di-n-butylphthalate
Concen: 5.52 ug/ml
RT: 10.571 min Scan# 1672
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:149 Resp: 575030

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.4	4.5	6.7

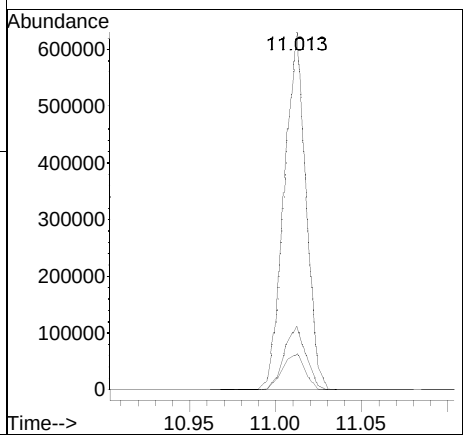


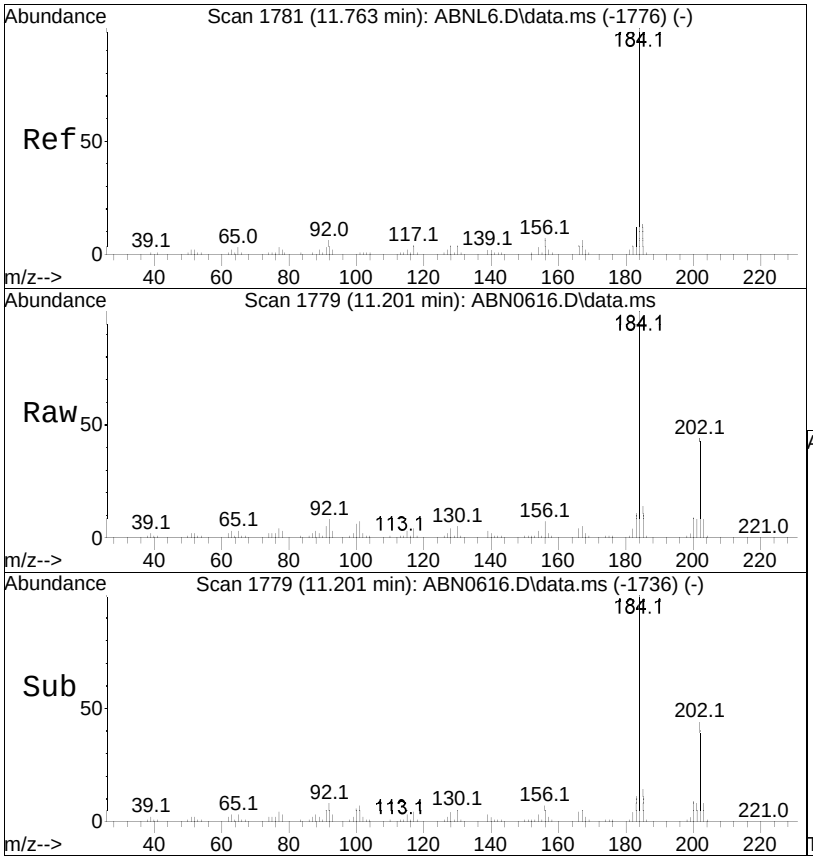


#92
Fluoranthene
Concen: 5.07 ug/ml
RT: 11.013 min Scan# 1747
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:202 Resp: 548264

Ion	Ratio	Lower	Upper
202	100		
101	10.8	13.5	20.3#
203	18.2	13.6	20.4

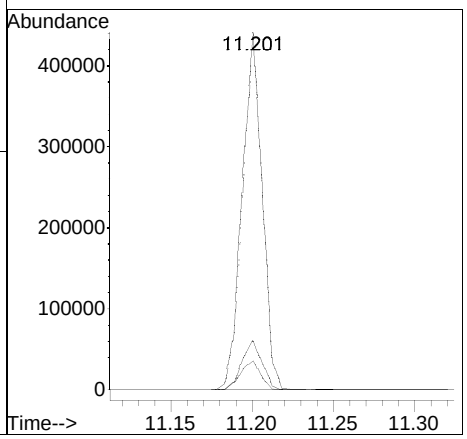


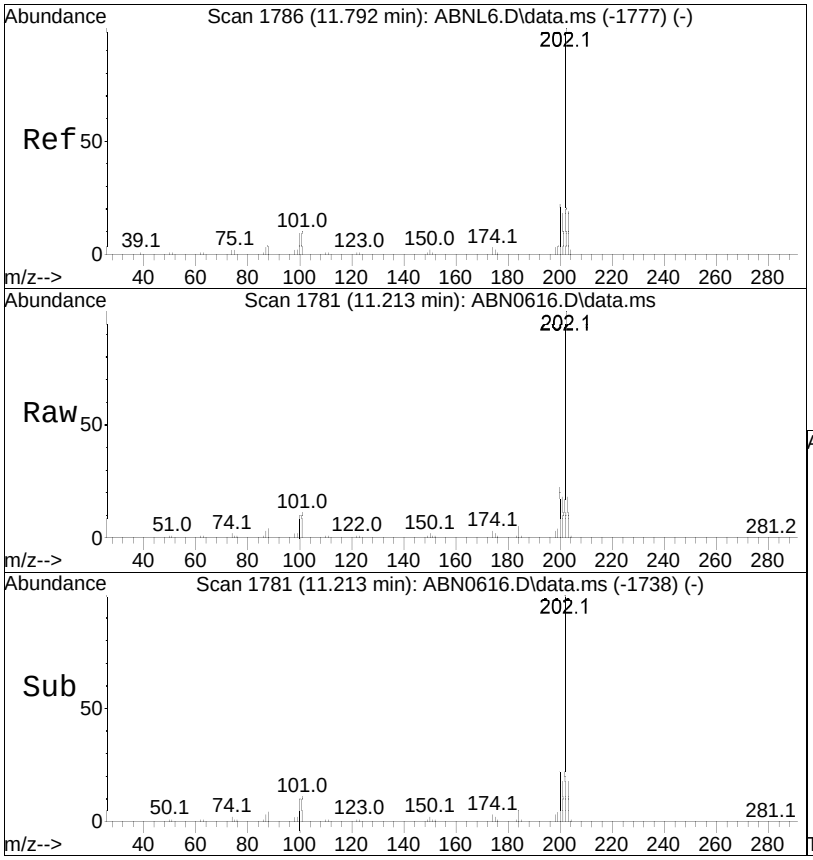


#93
Benzidine
Concen: 6.01 ug/ml
RT: 11.201 min Scan# 1779
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:184 Resp: 372387

Ion	Ratio	Lower	Upper
184	100		
92	8.3	9.1	13.7#
185	14.1	11.1	16.7

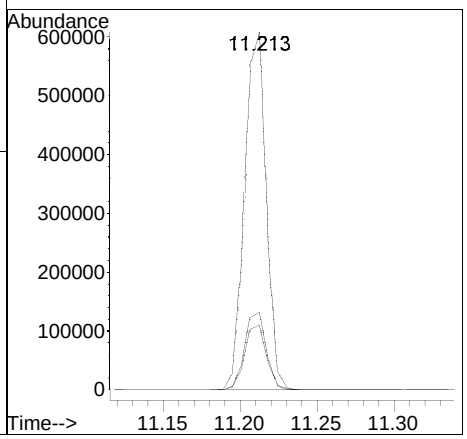


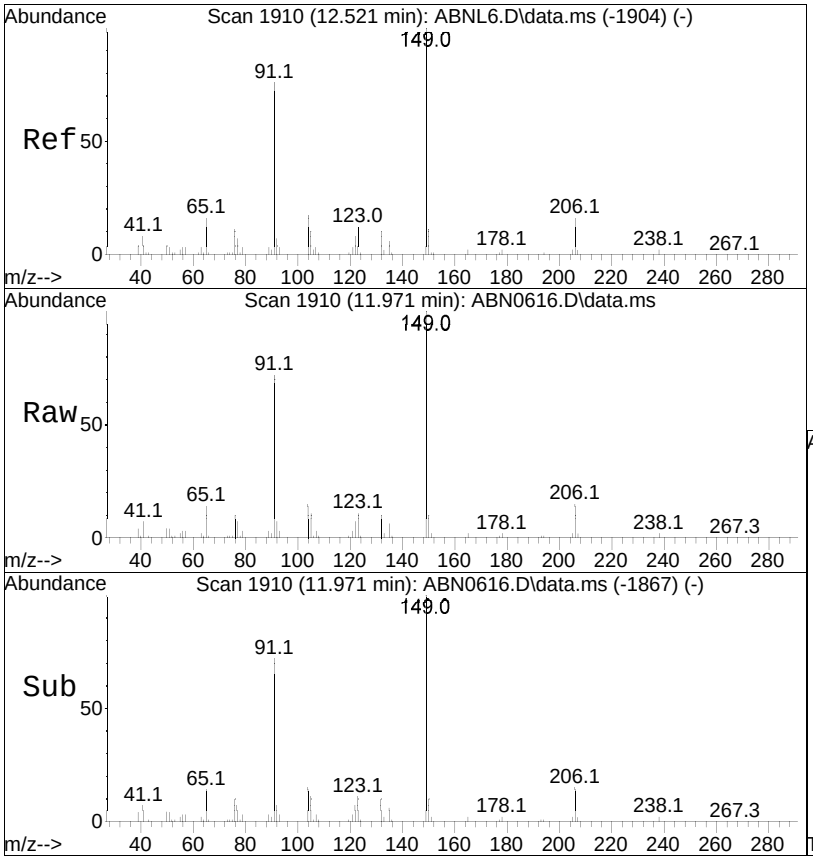


#94
Pyrene
Concen: 5.13 ug/ml
RT: 11.213 min Scan# 1781
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:202 Resp: 585530

Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.7	25.1
203	18.7	14.2	21.4

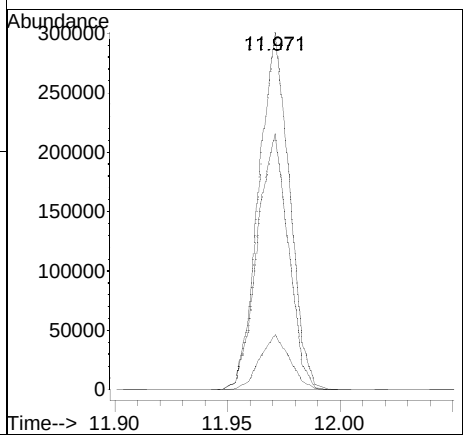


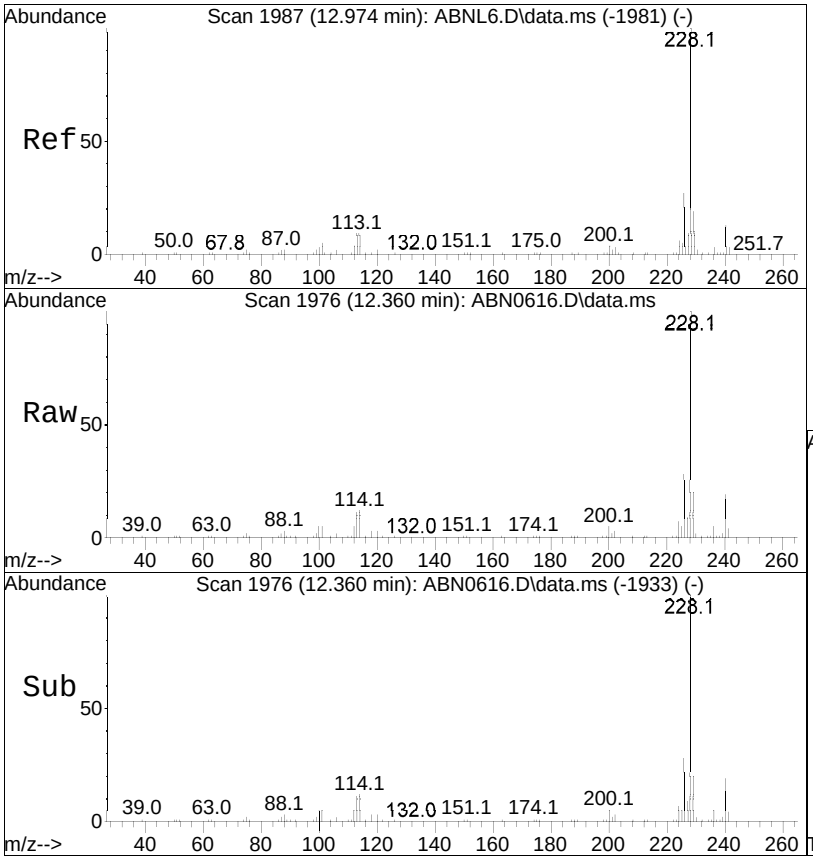


#96
Butyl benzyl phthalate
Concen: 6.35 ug/ml
RT: 11.971 min Scan# 1910
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:149 Resp: 281501

Ion	Ratio	Lower	Upper
149	100		
91	72.7	63.3	94.9
206	15.2	13.9	20.9

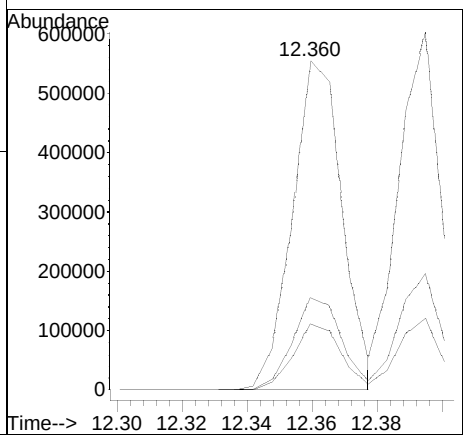


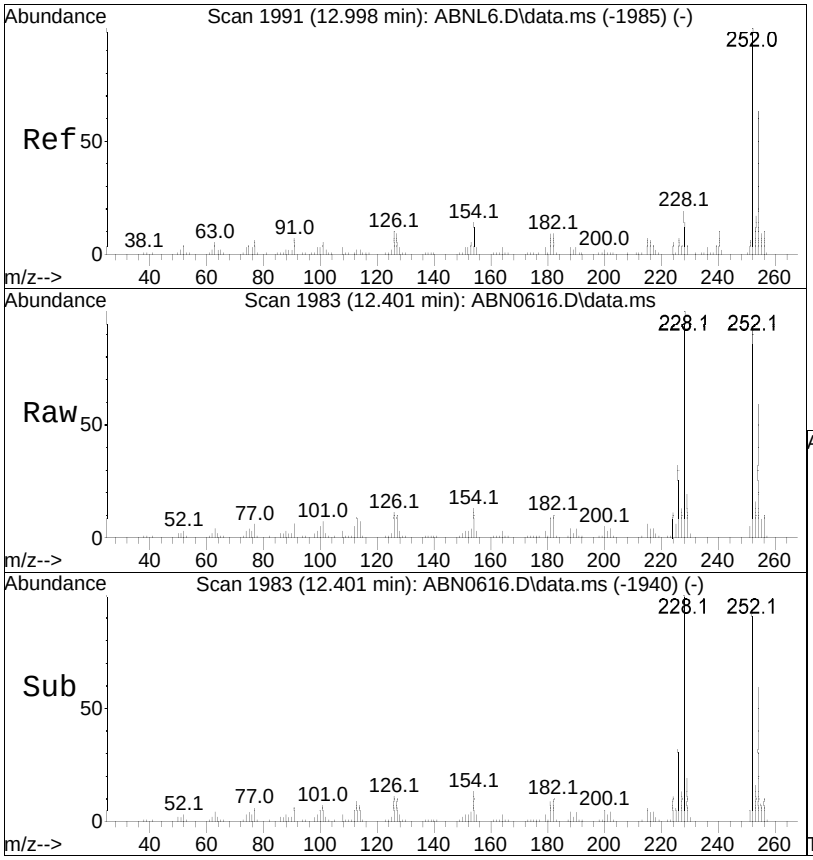


#104
Benzo(a)anthracene
Concen: 5.19 ug/ml M3
RT: 12.360 min Scan# 1976
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:228 Resp: 591703

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.5	15.6	23.4

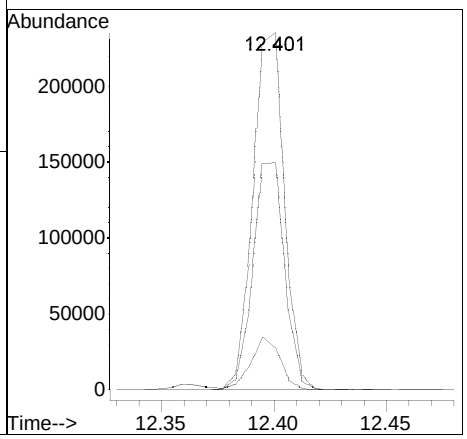


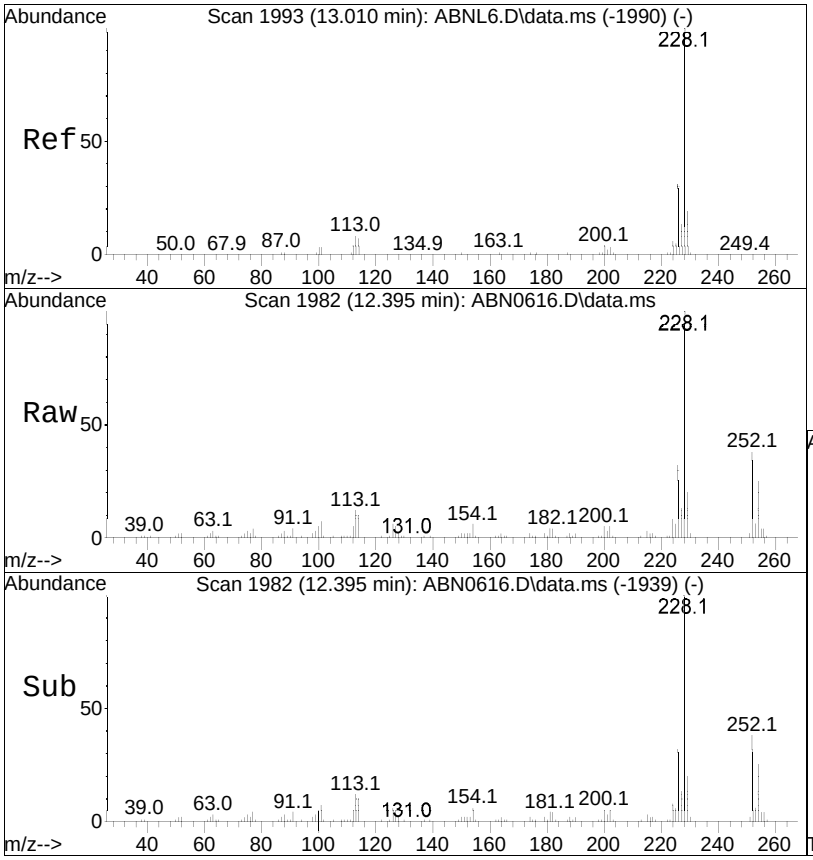


#105
3,3'-Dichlorobenzidine
Concen: 5.79 ug/ml
RT: 12.401 min Scan# 1983
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:252 Resp: 227381

Ion	Ratio	Lower	Upper
252	100		
126	13.8	14.5	21.7#
254	64.4	51.2	76.8

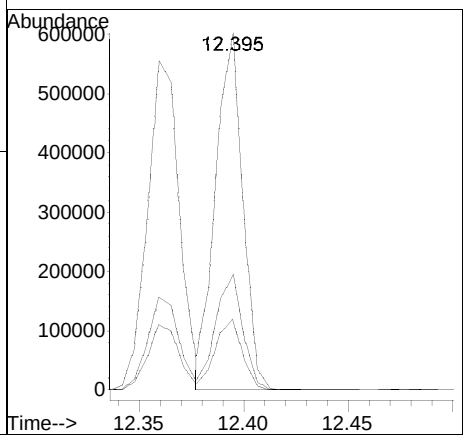


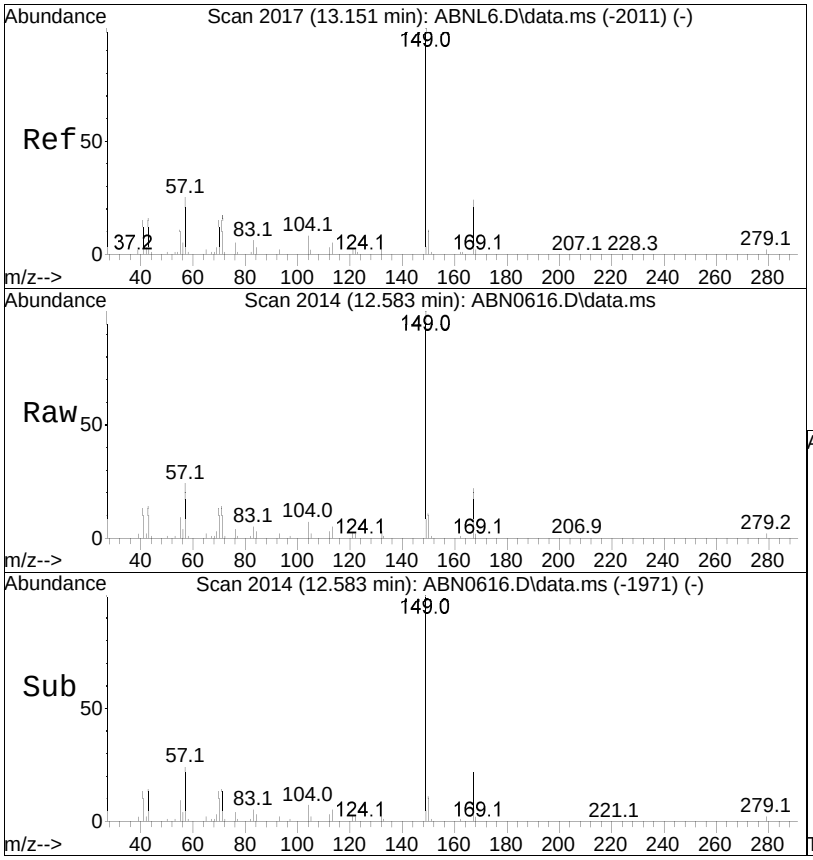


#106
Chrysene
Concen: 4.82 ug/ml
RT: 12.395 min Scan# 1982
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:228 Resp: 542688

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.8	15.8	23.8

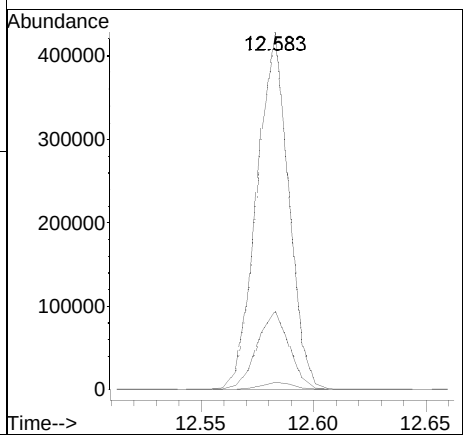


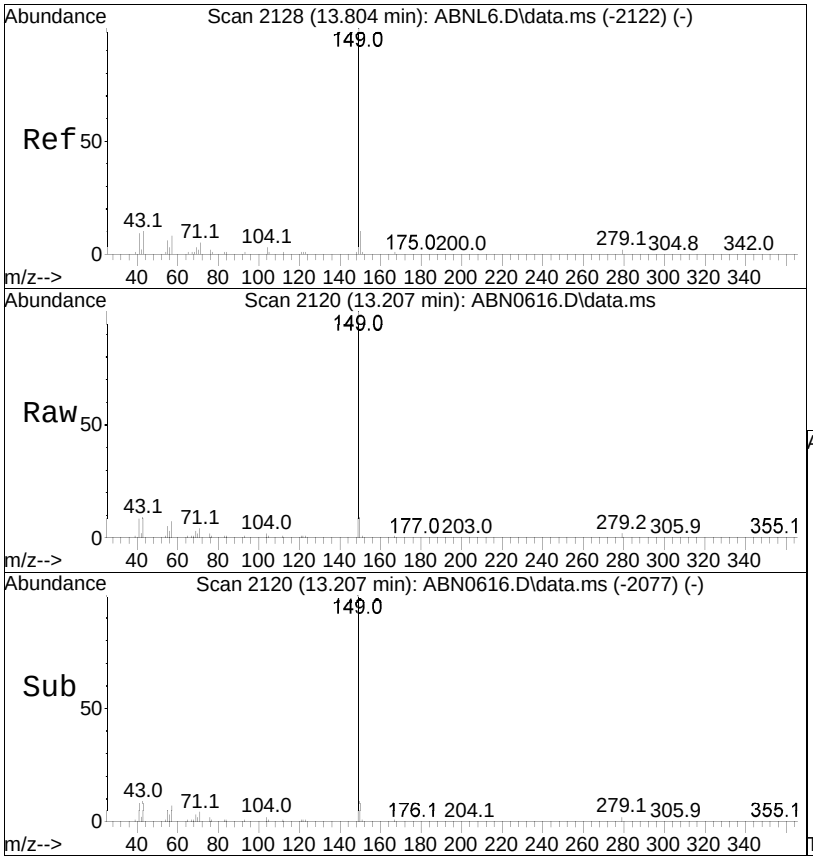


#107
Bis(2-ethylhexyl)phthalate
Concen: 6.17 ug/ml
RT: 12.583 min Scan# 2014
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:149 Resp: 417483

Ion	Ratio	Lower	Upper
149	100		
167	22.2	22.1	33.1
279	1.9	3.0	4.4#

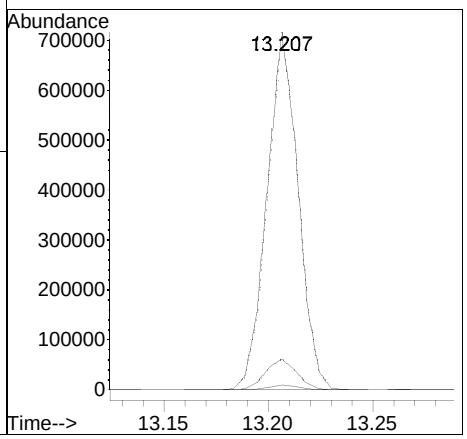


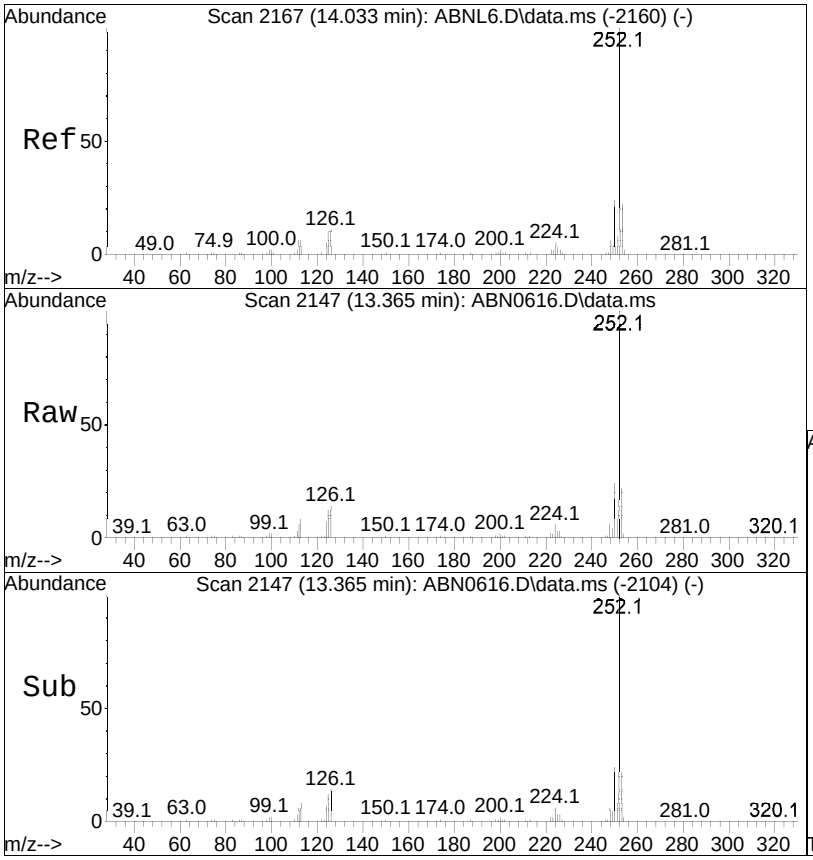


#108
Di-n-octylphthalate
Concen: 6.60 ug/ml
RT: 13.207 min Scan# 2120
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:149 Resp: 731087

Ion	Ratio	Lower	Upper
149	100		
43	9.0	18.8	28.2#
167	1.4	1.3	1.9

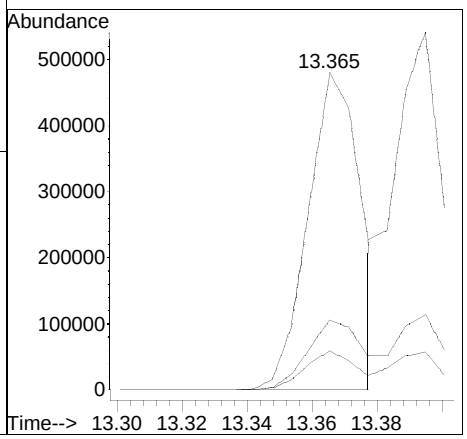


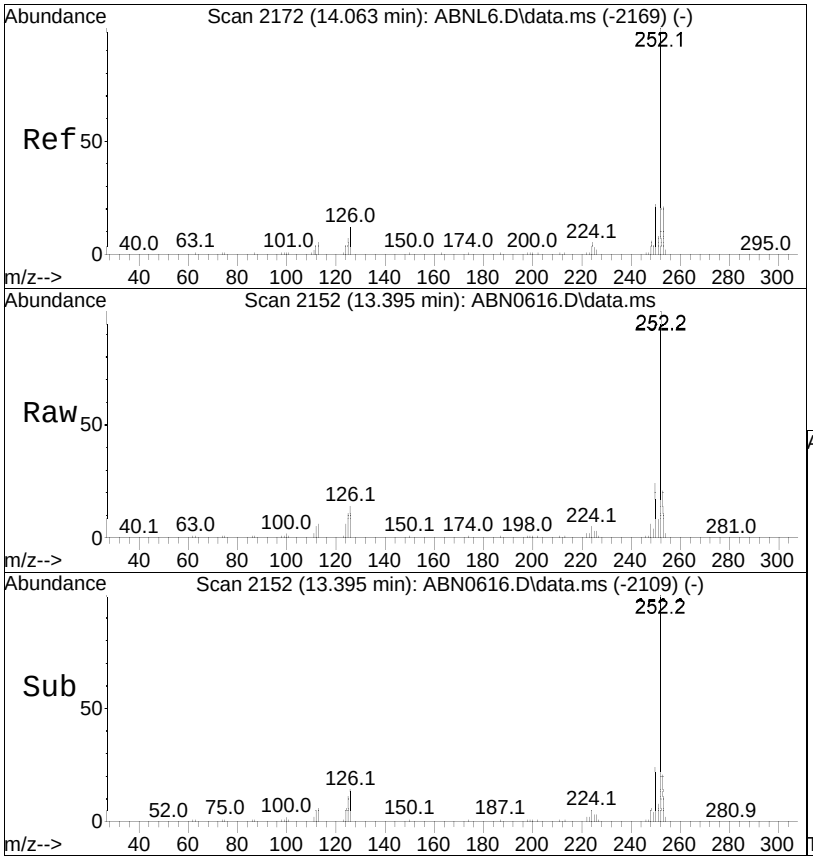


#109
Benzo(b)fluoranthene
Concen: 5.20 ug/ml M3
RT: 13.365 min Scan# 2147
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:252 Resp: 541256

Ion	Ratio	Lower	Upper
252	100		
125	12.1	13.3	19.9#
253	25.8	17.1	25.7#

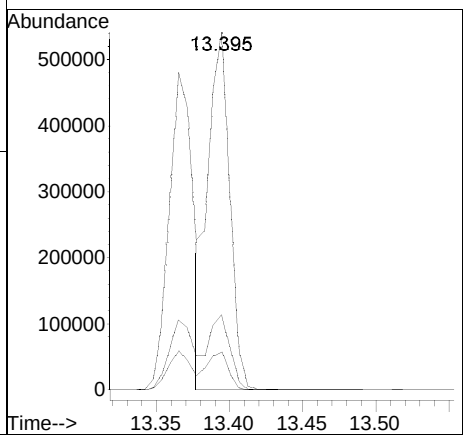


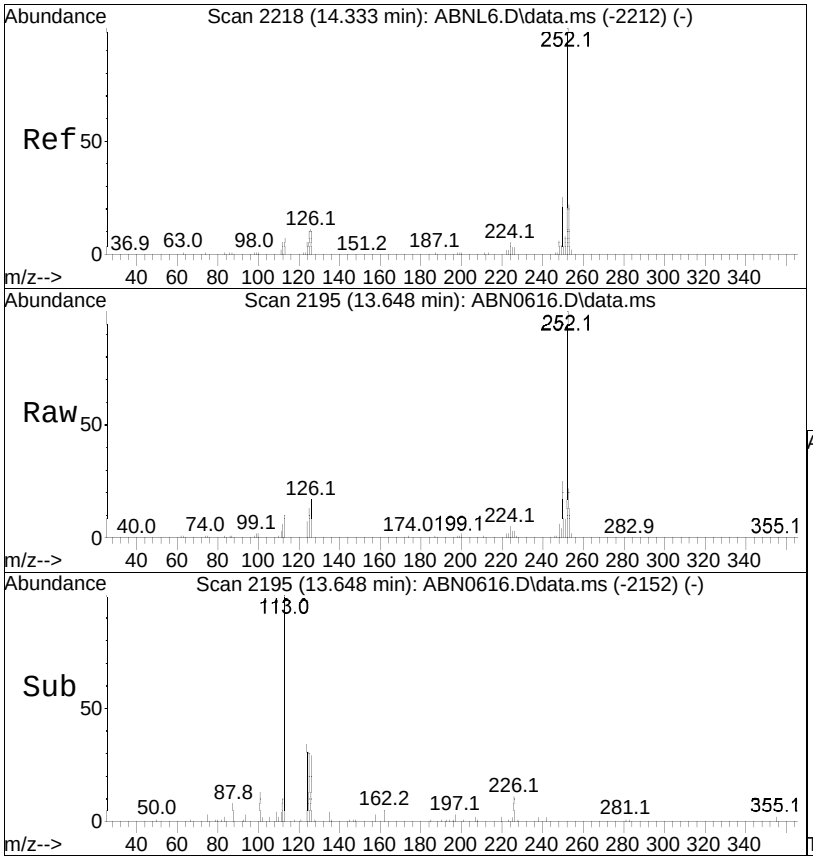


#110
Benzo(k)fluoranthene
Concen: 5.50 ug/ml
RT: 13.395 min Scan# 2152
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:252 Resp: 558902

Ion	Ratio	Lower	Upper
252	100		
125	10.7	13.0	19.6#
253	18.1	16.8	25.2

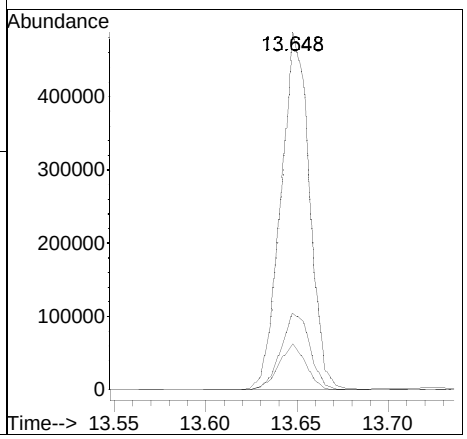


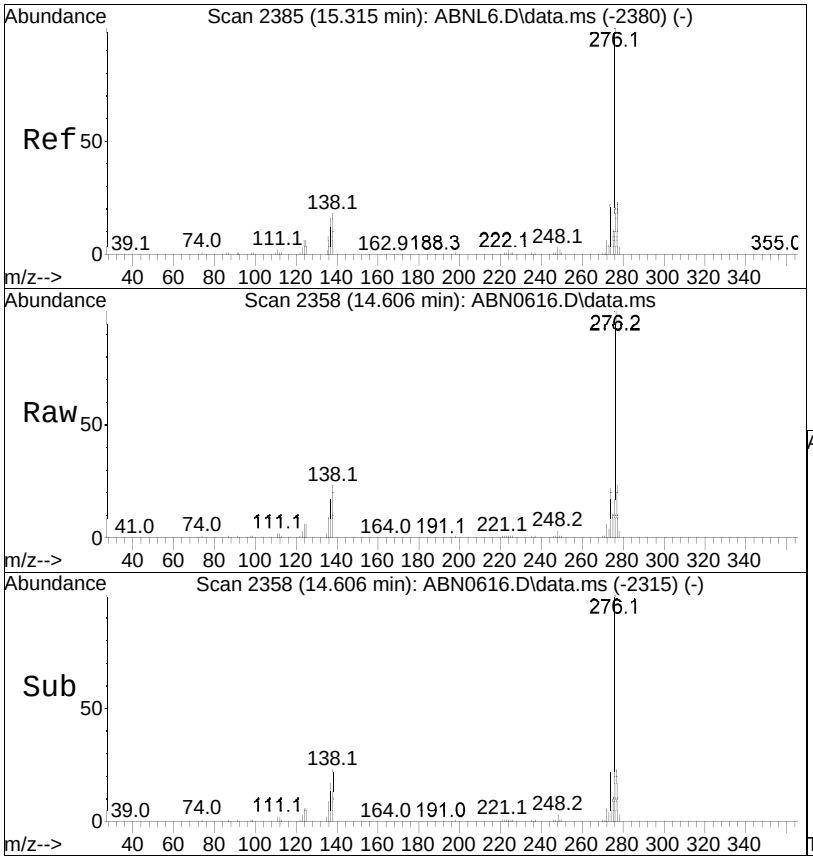


#111
Benzo(a)pyrene
Concen: 5.65 ug/ml
RT: 13.648 min Scan# 2195
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:252 Resp: 526443

Ion	Ratio	Lower	Upper
252	100		
125	12.4	14.2	21.2#
253	21.9	16.9	25.3

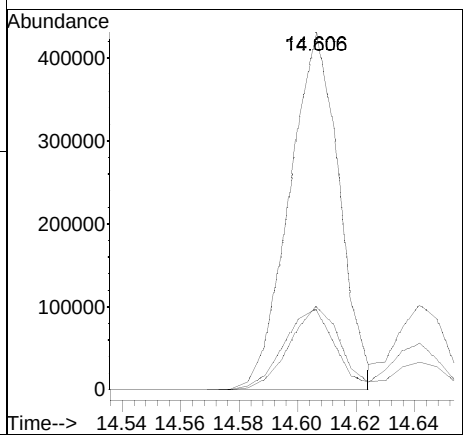


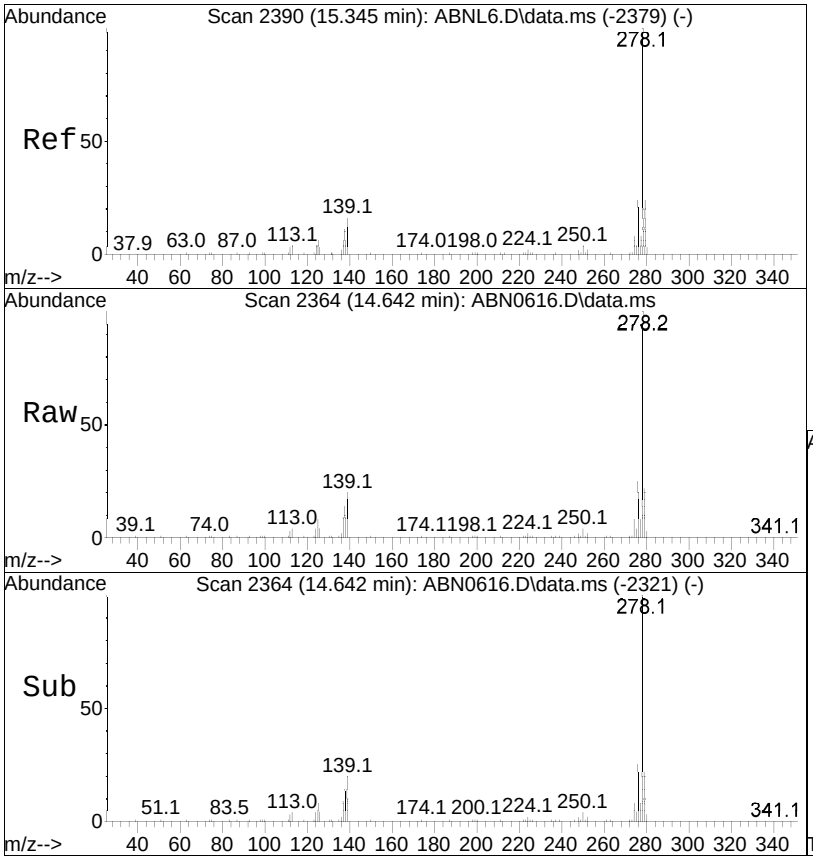


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.30 ug/mL M3
RT: 14.606 min Scan# 2358
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:276 Resp: 508988

Ion	Ratio	Lower	Upper
276	100		
138	23.6	25.1	37.7#
277	23.9	18.6	28.0

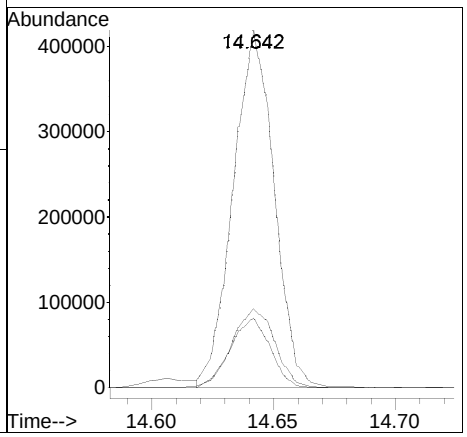


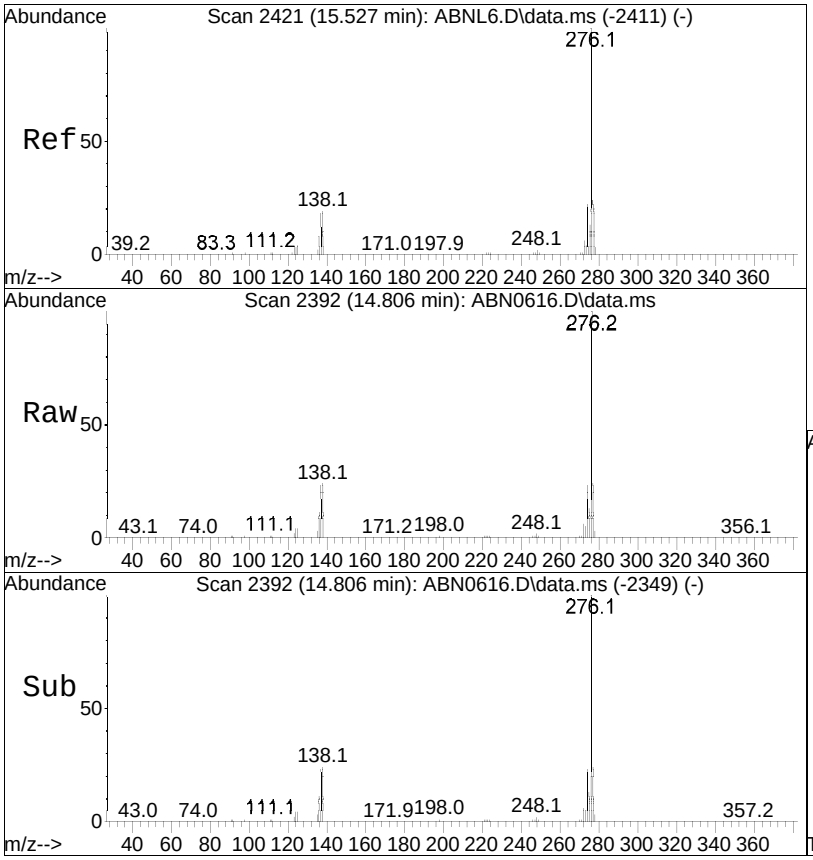


#114
Dibenzo(a,h)anthracene
Concen: 5.32 ug/ml M6
RT: 14.642 min Scan# 2364
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:278 Resp: 485944

Ion	Ratio	Lower	Upper
278	100		
139	19.2	20.8	31.2#
279	23.6	18.3	27.5

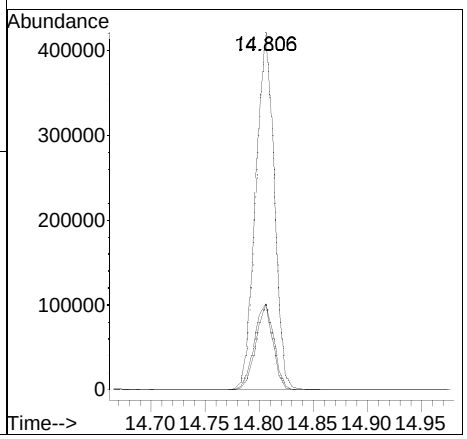




#115
Benzo(ghi)perylene
Concen: 5.49 ug/ml
RT: 14.806 min Scan# 2392
Delta R.T. 0.000 min
Lab File: ABN0616.D
Acq: 16 Jun 2024 1:06 pm

Tgt Ion:276 Resp: 495116

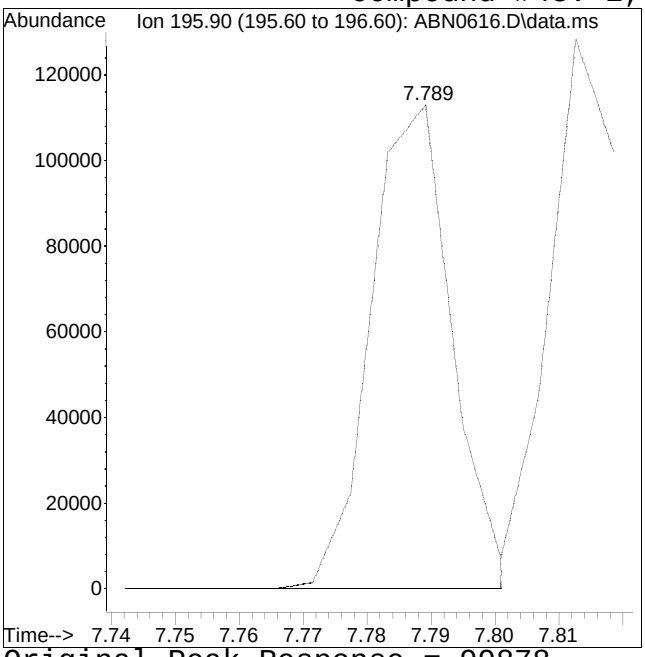
Ion	Ratio	Lower	Upper
276	100		
138	24.4	29.2	43.8#
277	23.7	18.8	28.2



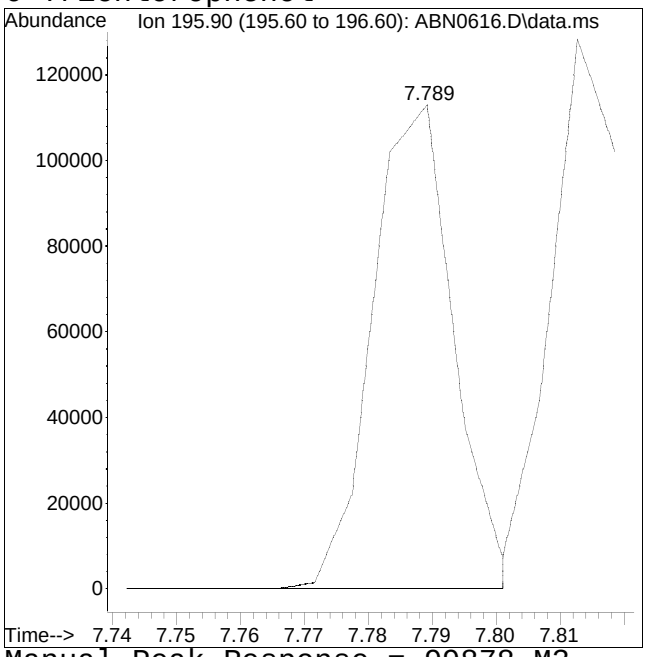
Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #43: 2,4,6-Trichlorophenol



Original Peak Response = 99878



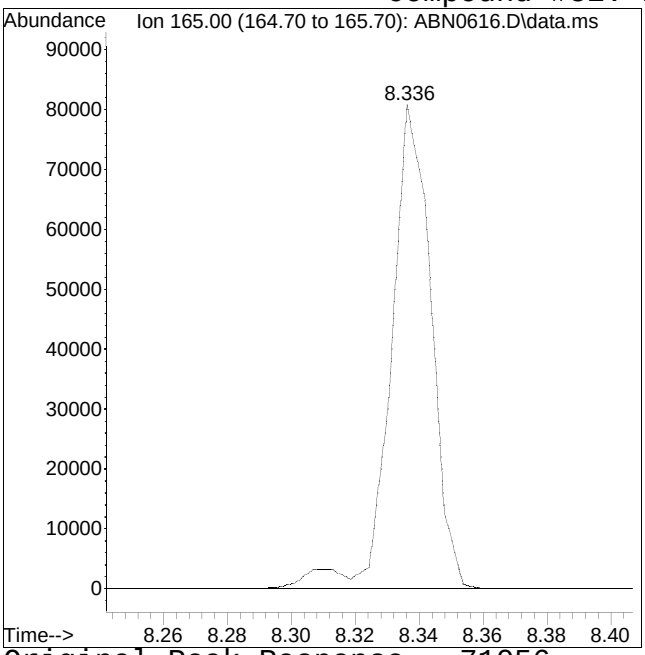
Manual Peak Response = 99878 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

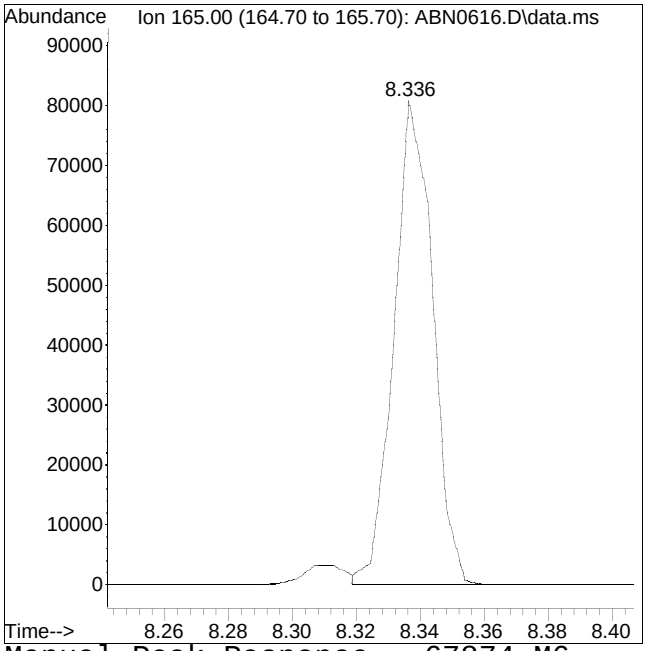
Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #52: 2,6-Dinitrotoluene



Original Peak Response = 71056



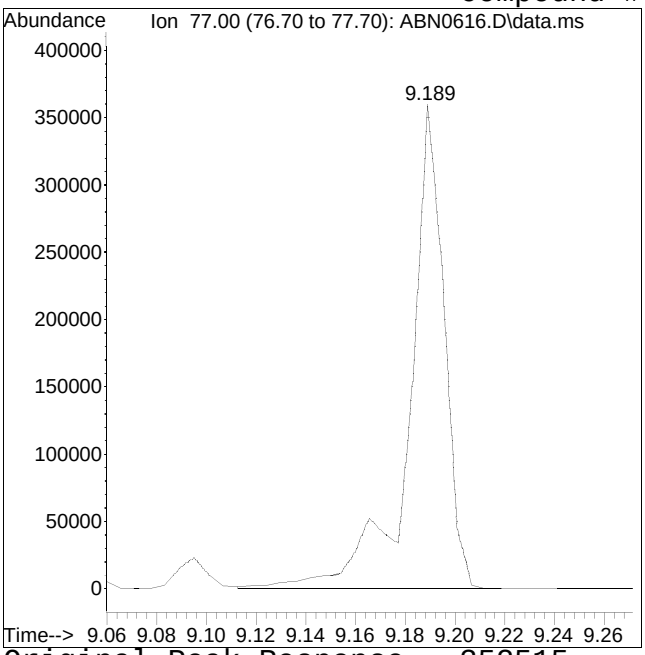
Manual Peak Response = 67874 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

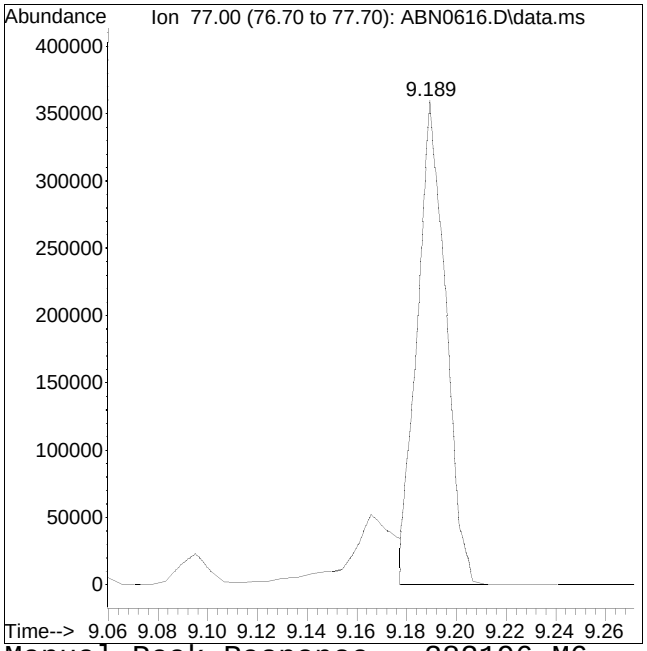
Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #77: Azobenzene



Original Peak Response = 352515



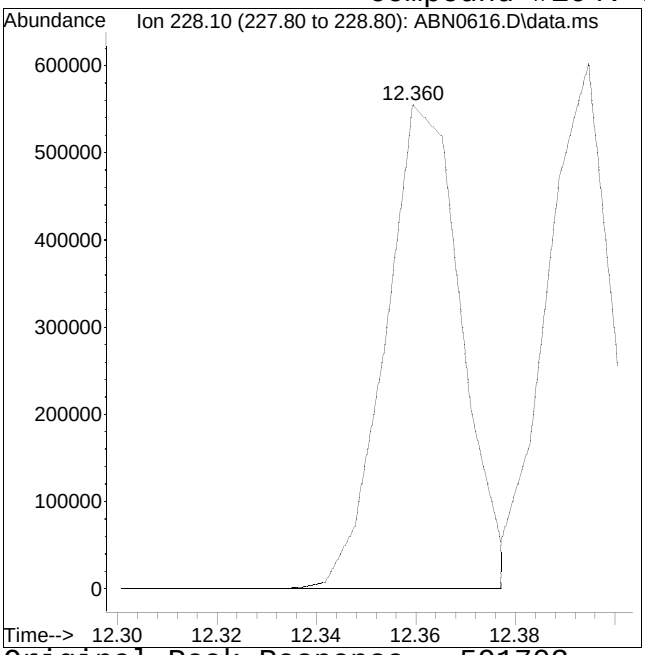
Manual Peak Response = 282196 M6

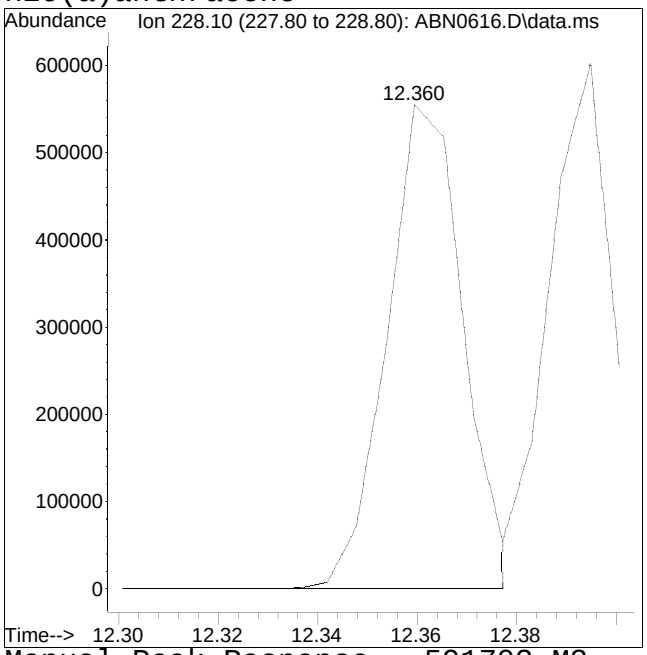
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #104: Benzo(a)anthracene





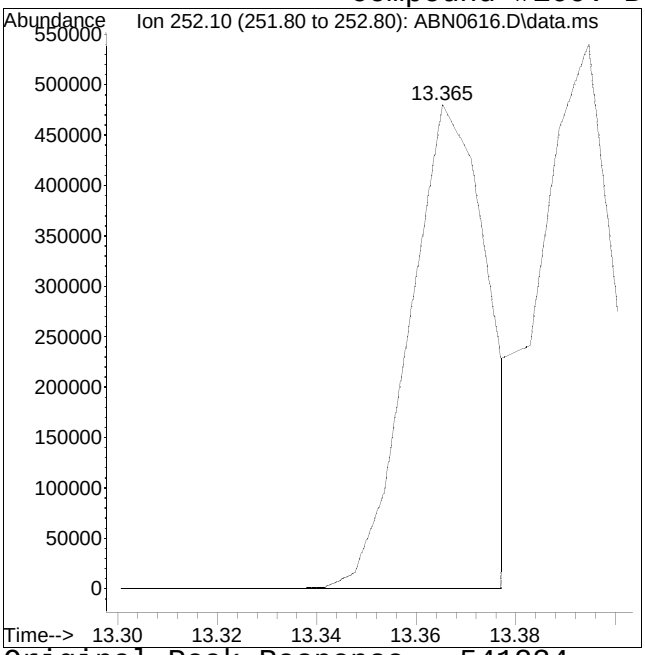
Original Peak Response = 591703 Manual Peak Response = 591703 M3

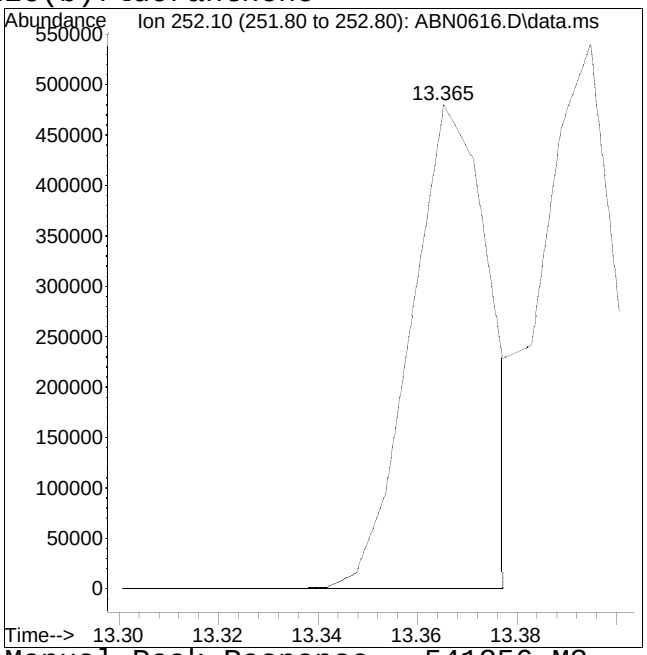
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #109: Benzo(b)fluoranthene



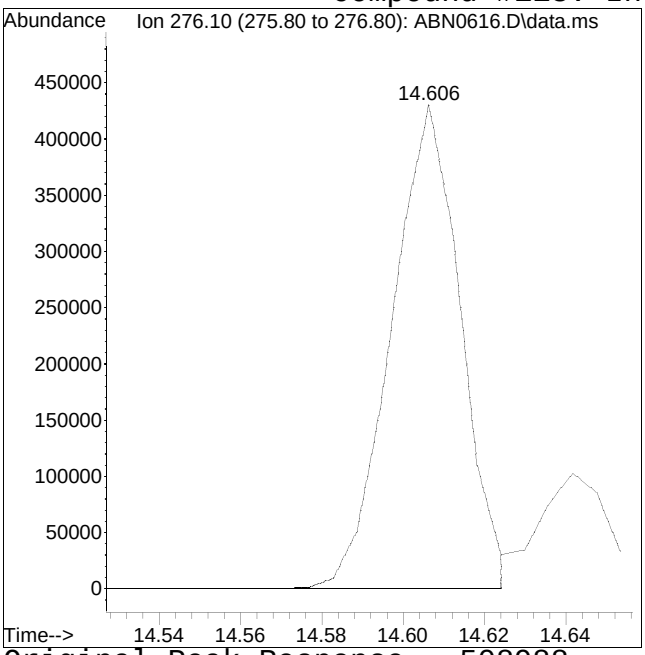


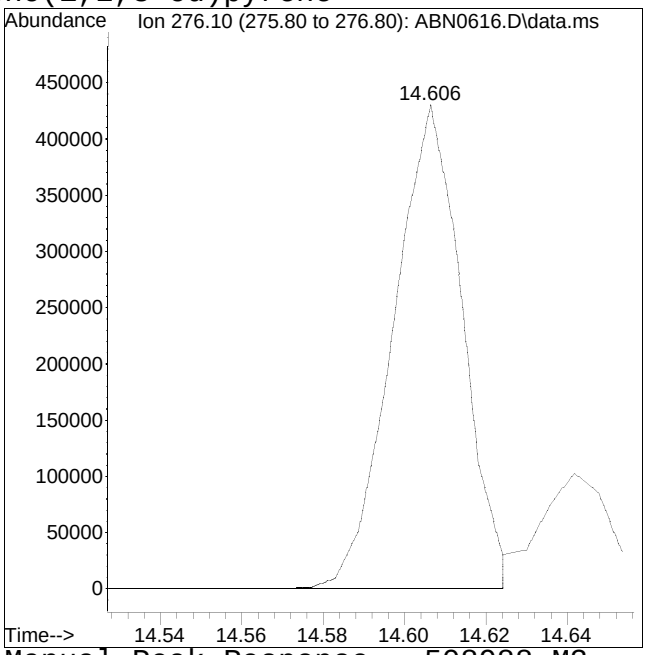
Original Peak Response = 541234 Manual Peak Response = 541256 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #113: Indeno(1,2,3-cd)pyrene





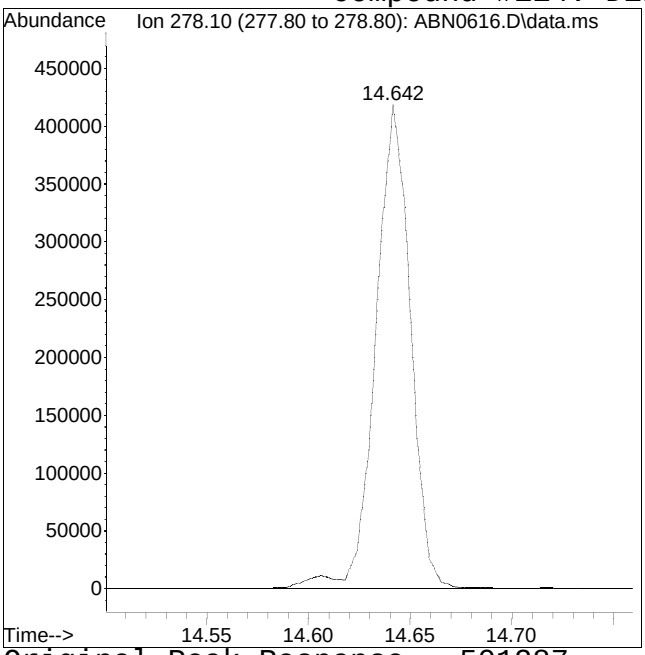
Original Peak Response = 508988 Manual Peak Response = 508988 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

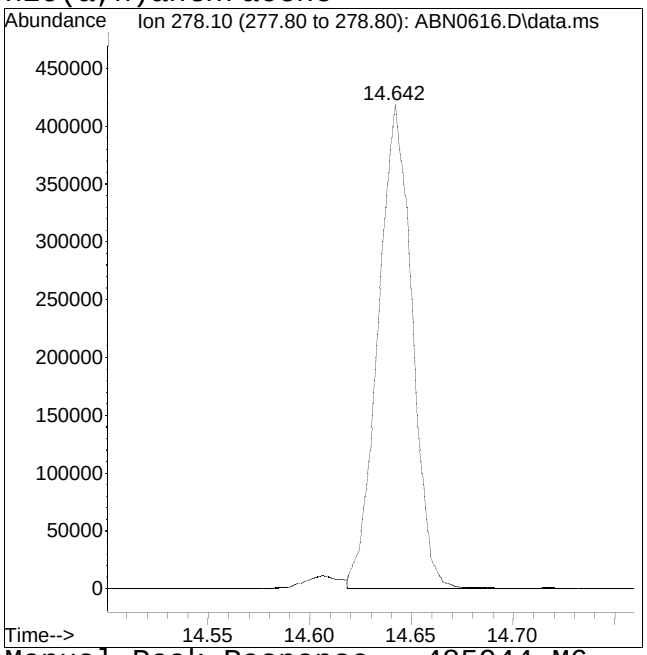
Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : ABN0616.D Operator : SV106:sz
Date Inj'd : 6/16/2024 1:06 pm Instrument : SV 106
Sample : wg1934989-3,32,,ABN 10526 Quant Date : 6/16/2024 2:16 pm

Compound #114: Dibenzo(a,h)anthracene



Original Peak Response = 501287



Manual Peak Response = 485944 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : ADP0616.D
Acq On : 16 Jun 2024 1:30 pm
Operator : SV106:sz
Sample : wg1934989-5,32,,ADP 10751 gmr0518B
Misc : wg1934989,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 16 14:16:27 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	105	0.00
33	T	n-Decane		1.537	1.364	11.3	101	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	102	0.00
86	T	Atrazine		0.403	0.419	-4.0	109	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	99	0.00
100	T	n-Octadecane		0.440	0.420	4.5	96	0.00
101	T	Parathion		0.121	0.139	-14.9	127	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.992	0.2	119	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ADP0616.D
Acq On : 16 Jun 2024 1:30 pm
Operator : SV106:sz
Sample : wg1934989-5,32,,ADP 10751 gmr0518B
Misc : wg1934989,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 16 14:16:27 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.966	152	63834	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	8.472	164	144241	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.872	188	315611	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.907	57	108815	4.435	ug/ml#	40
86) Atrazine	9.724	200	75514	5.198	ug/ml	93
100) n-Octadecane	9.954	57	165513	4.769	ug/ml#	1
101) Parathion	10.701	109	55000	5.782	ug/ml#	92
102) 3,3'-Dimethylbenzidine	11.907	212	313516	4.992	ug/ml	99

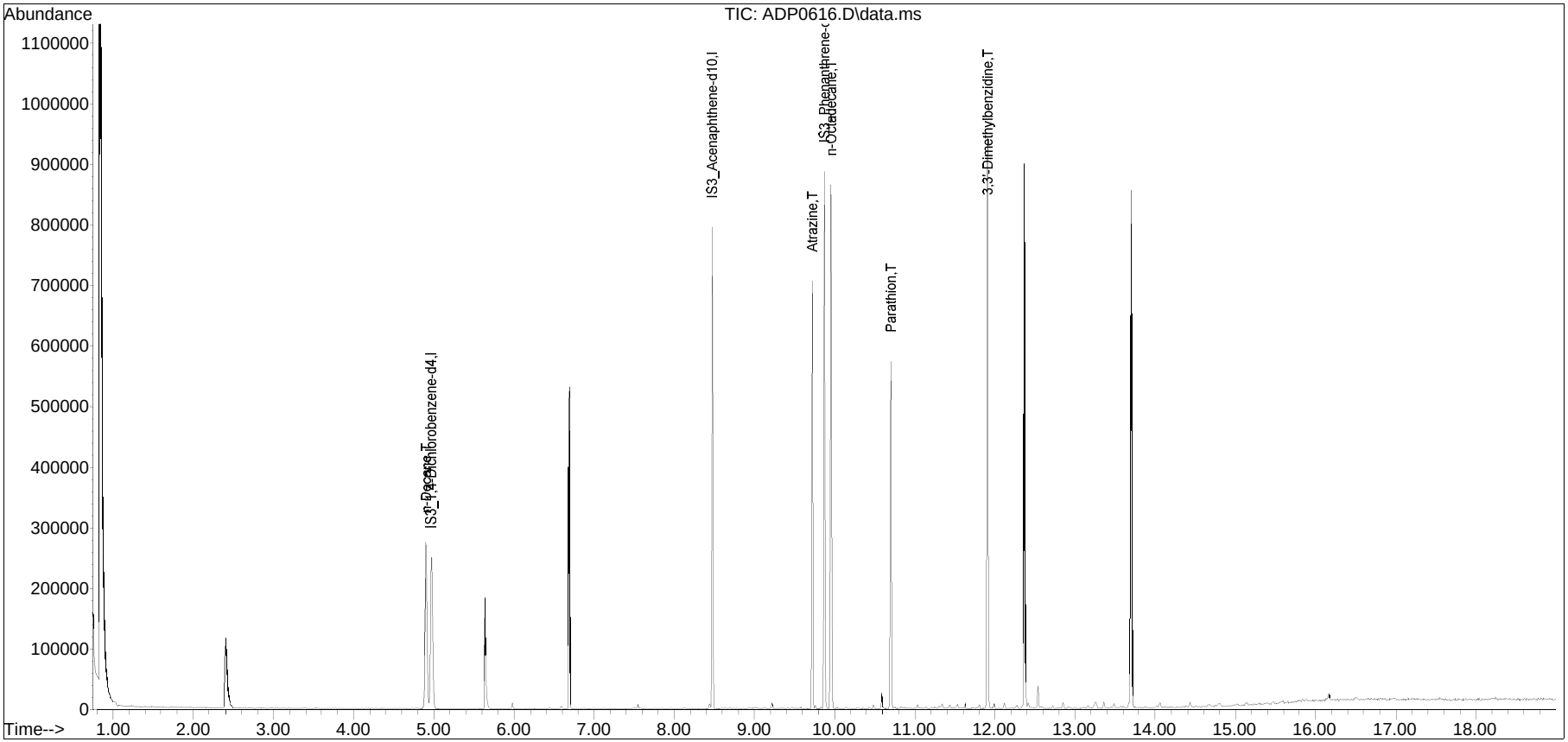
(#) = qualifier out of range (m) = manual integration (+) = signals summed

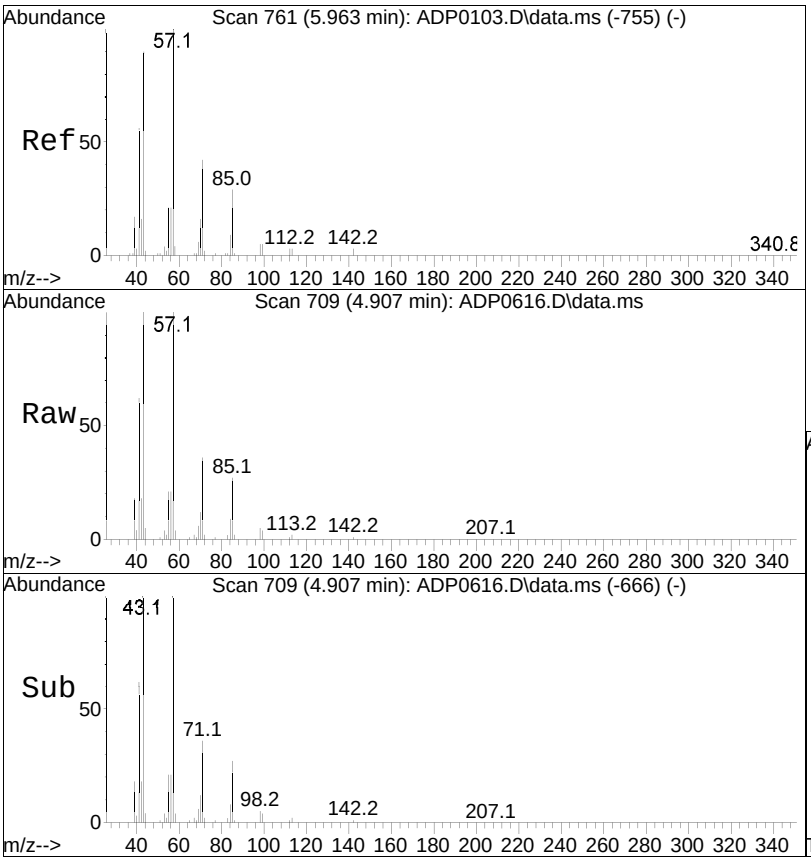
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : ADP0616.D
Acq On : 16 Jun 2024 1:30 pm
Operator : SV106:sz
Sample : wg1934989-5,32,,ADP 10751 gmr0518B
Misc : wg1934989,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 16 14:16:27 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

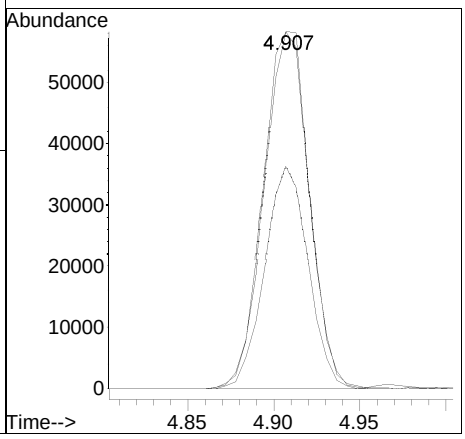


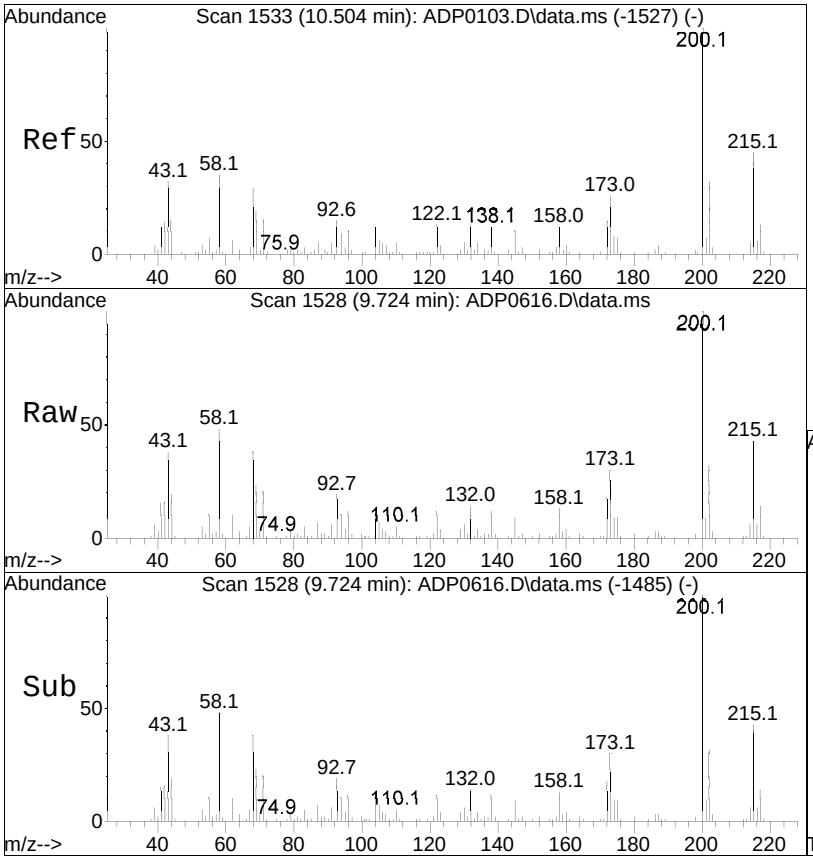


#33
n-Decane
Concen: 4.44 ug/ml
RT: 4.907 min Scan# 709
Delta R.T. 0.000 min
Lab File: ADP0616.D
Acq: 16 Jun 2024 1:30 pm

Tgt Ion: 57 Resp: 108815

Ion	Ratio	Lower	Upper
57	100		
43	96.8	0.2	0.2#
41	58.5	0.2	0.2#

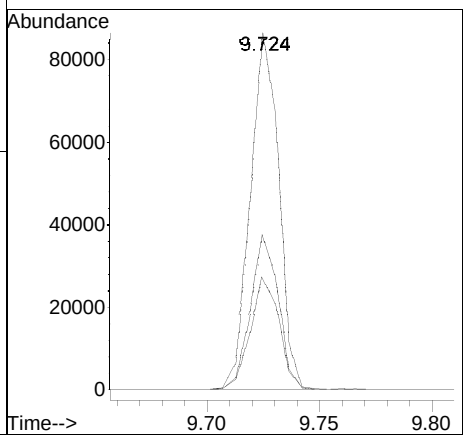


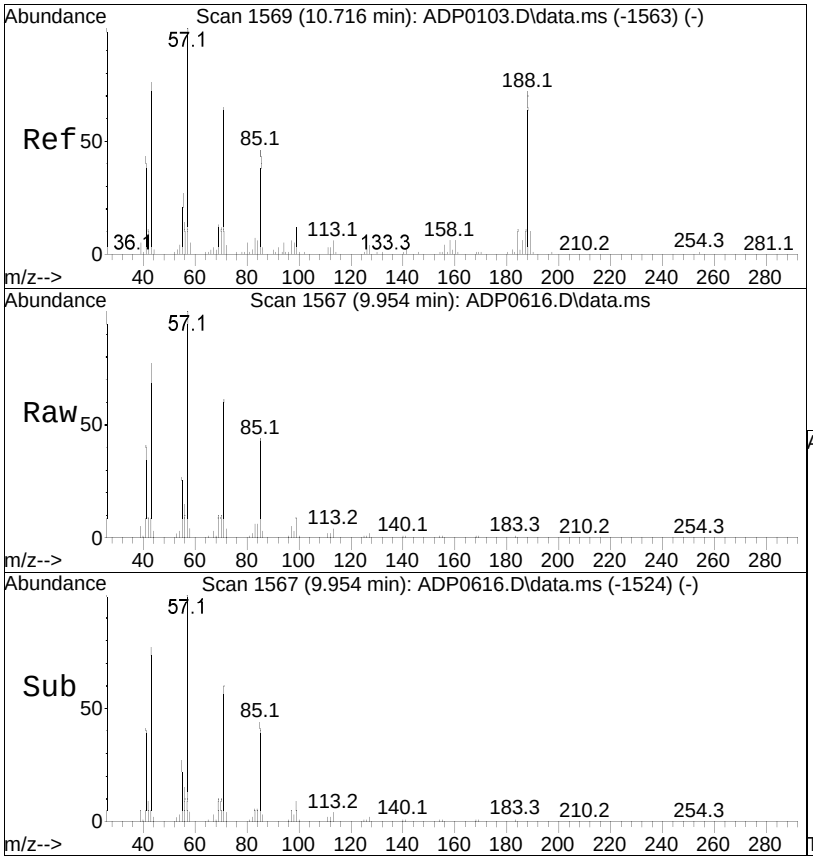


#86
Atrazine
Concen: 5.20 ug/ml
RT: 9.724 min Scan# 1528
Delta R.T. 0.000 min
Lab File: ADP0616.D
Acq: 16 Jun 2024 1:30 pm

Tgt Ion:200 Resp: 75514

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	42.4	40.2	60.4

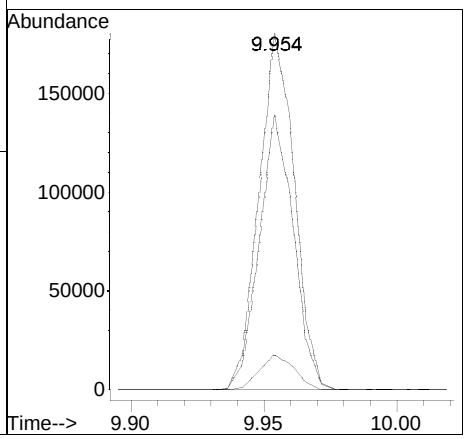


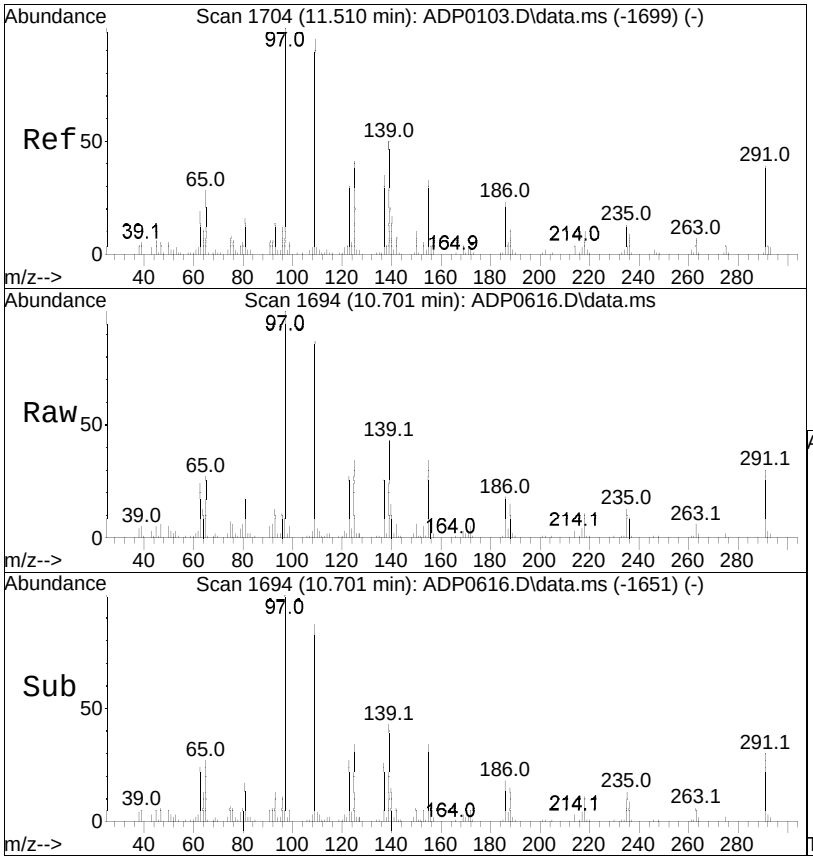


#100
n-Octadecane
Concen: 4.77 ug/ml
RT: 9.954 min Scan# 1567
Delta R.T. 0.000 min
Lab File: ADP0616.D
Acq: 16 Jun 2024 1:30 pm

Tgt Ion: 57 Resp: 165513

Ion	Ratio	Lower	Upper
57	100		
43	74.6	9.0	13.6#
70	9.9	0.2	0.2#

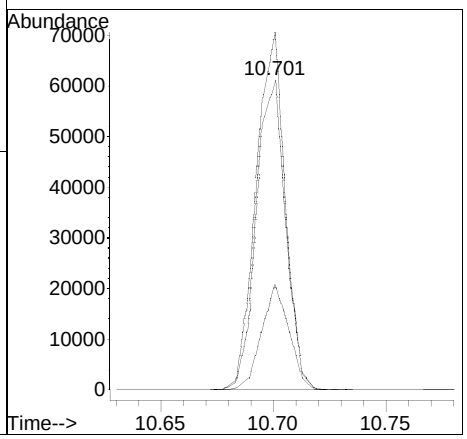


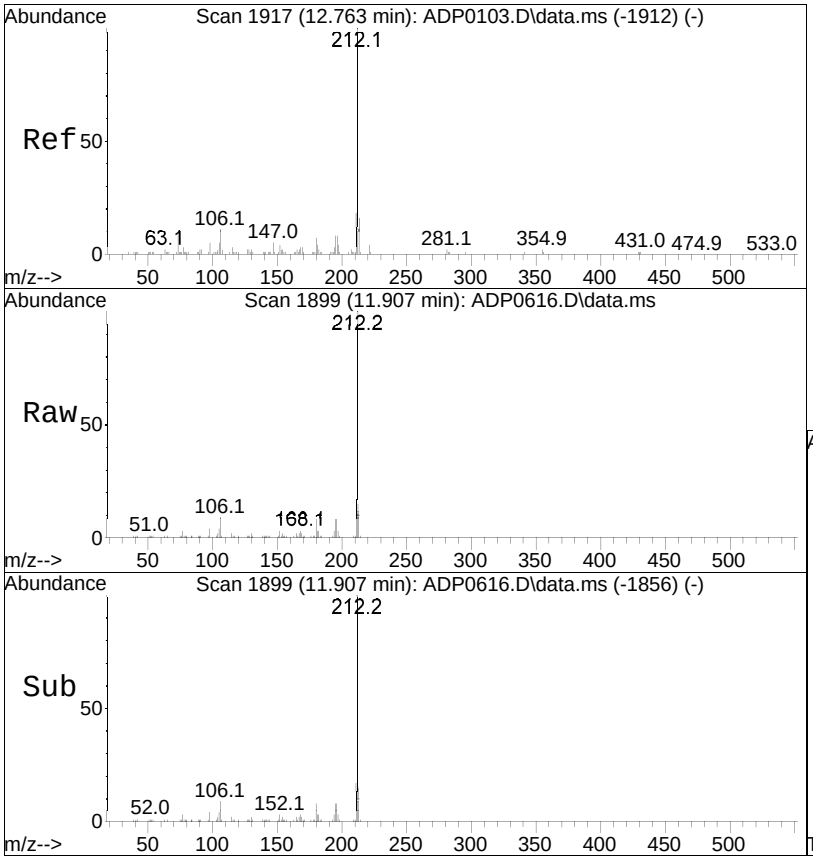


#101
Parathion
Concen: 5.78 ug/ml
RT: 10.701 min Scan# 1694
Delta R.T. 0.000 min
Lab File: ADP0616.D
Acq: 16 Jun 2024 1:30 pm

Tgt Ion:109 Resp: 55000

Ion	Ratio	Lower	Upper
109	100		
97	114.3	87.4	131.2
291	32.1	34.2	51.2#

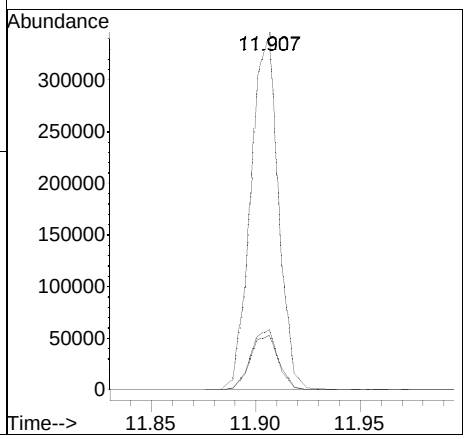




#102
3,3'-Dimethylbenzidine
Concen: 4.99 ug/ml
RT: 11.907 min Scan# 1899
Delta R.T. 0.000 min
Lab File: ADP0616.D
Acq: 16 Jun 2024 1:30 pm

Tgt Ion:212 Resp: 313516

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	16.0	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\240616aRVT\	QMethod	: FS240418SV106.m
Data File	: ADP0616.D	Operator	: SV106:sz
Date Inj'd	: 6/16/2024 1:30 pm	Instrument	: SV 106
Sample	: wg1934989-5,32,,ADP 10751	Quant Date	: 6/16/2024 2:17 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : AP90616.D
Acq On : 16 Jun 2024 1:54 pm
Operator : SV106:sz
Sample : wg1934989-4,32,,AP9 10776 mrg0604A
Misc : wg1934989,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 16 14:16:39 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
28	T	Benzaldehyde	1.095	1.294	-18.2	140	0.00
29	T	Acetophenone	1.981	2.234	-12.8	130	0.00
30	T	m-Toluidine	1.685	2.115	-25.5#	133	0.00
31	T	2-Chloroaniline	1.619	1.892	-16.9	131	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	102	0.00
55	T	a-Terpineol	0.330	0.378	-14.5	125	0.00
56	T	3-Chloroaniline	0.181	0.210	-16.0	120	0.00
57	T	2,6-Dichlorophenol	0.300	0.361	-20.3	133	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.195	-13.4	131	0.00
59	T	Caprolactam	0.176	0.195	-10.8	123	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.491	-6.5	120	0.00
61	T	Biphenyl	0.901	0.999	-10.9	120	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	101	0.00
83	T	Dichloran	0.191	0.240	-25.7#	131	0.00
84	T	Pentachloronitrobenzene	0.232	0.282	-21.6#	133	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	101	0.00
98	T	Diphenamid	0.451	0.559	-23.9#	128	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : AP90616.D
Acq On : 16 Jun 2024 1:54 pm
Operator : SV106:sz
Sample : wg1934989-4,32,,AP9 10776 mrg0604A
Misc : wg1934989,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 16 14:16:39 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.972	152	62712	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	6.689	136	224940	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	8.472	164	142327	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	9.871	188	312893	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	3.884	105	101456	5.908	ug/ml		98
29) Acetophenone	5.672	105	175098	5.637	ug/ml	#	82
30) m-Toluidine	5.807	106	165768	6.275	ug/ml		95
31) 2-Chloroaniline	6.254	127	148281	5.842	ug/ml		95
55) a-Terpineol	6.813	59	106410	5.727	ug/ml	#	81
56) 3-Chloroaniline	6.819	65	59166	5.808	ug/ml		75
57) 2,6-Dichlorophenol	6.842	162	101521	6.023	ug/ml	#	86
58) 1-chloro-2-nitrobenzene	7.113	111	54731	5.669	ug/ml	#	1
59) Caprolactam	7.172	55	54760	5.533	ug/ml	#	66
60) 1,2,4,5-Tetrachloroben...	7.642	216	138020	5.329	ug/ml		96
61) Biphenyl	7.954	154	280991	5.545	ug/ml		99
83) Dichloran	9.607	206	42681	6.267	ug/ml	#	79
84) Pentachloronitrobenzene	9.742	237	50127	6.068	ug/ml	#	81
98) Diphenamid	10.813	167	218560	6.191	ug/ml		82

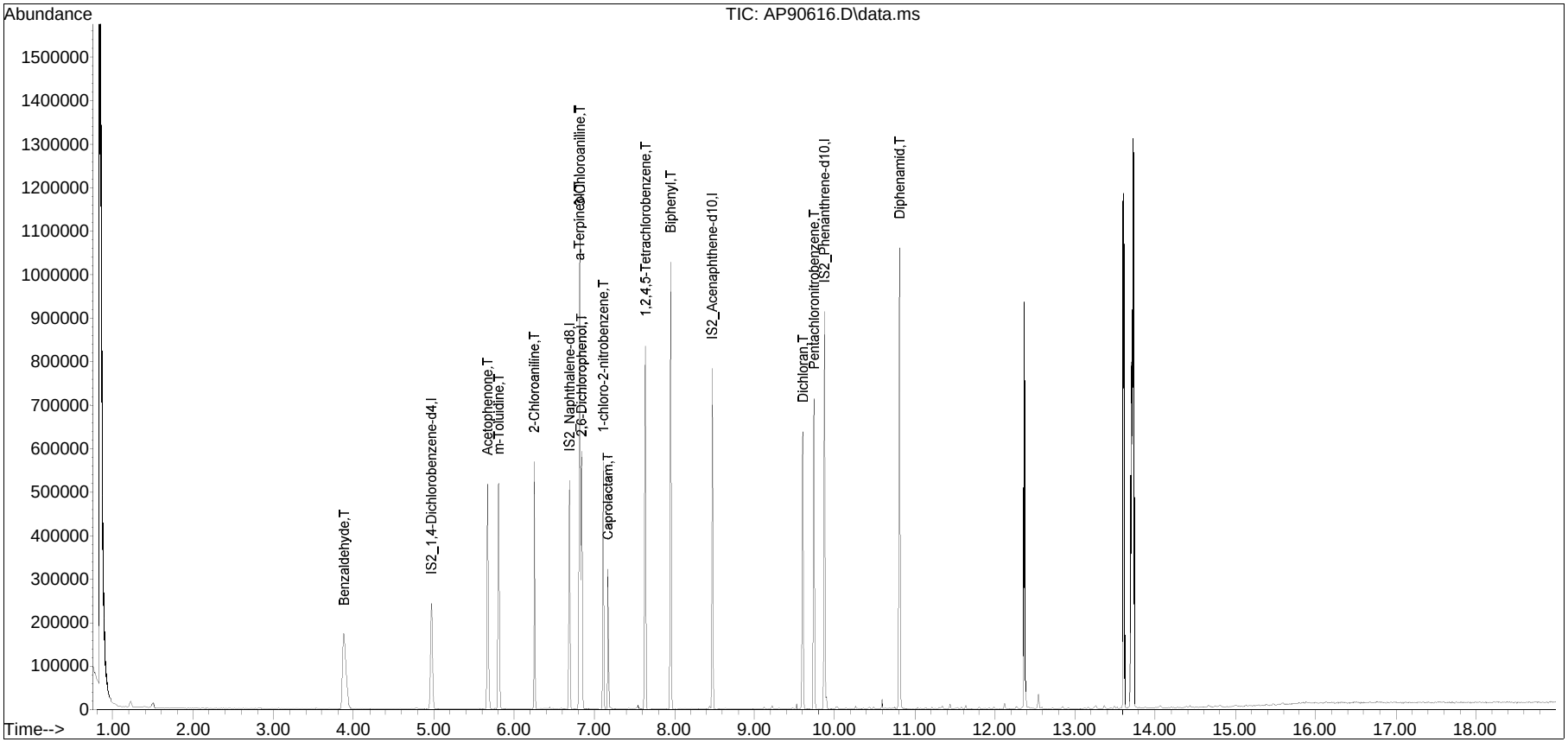
(#) = qualifier out of range (m) = manual integration (+) = signals summed

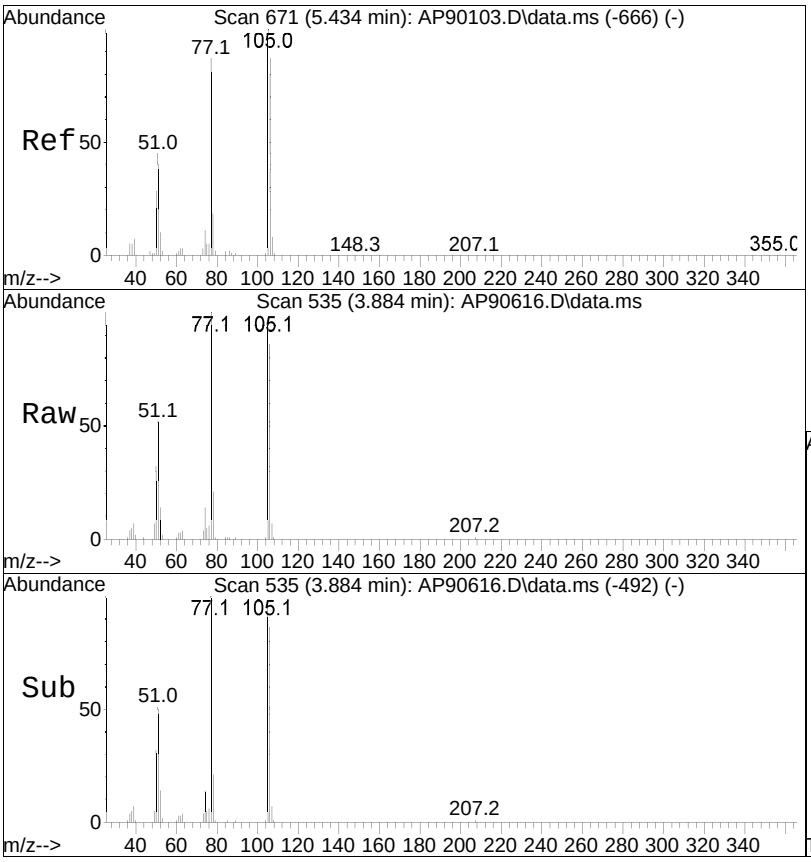
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : AP90616.D
Acq On : 16 Jun 2024 1:54 pm
Operator : SV106:sz
Sample : wg1934989-4,32,,AP9 10776 mrg0604A
Misc : wg1934989,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 16 14:16:39 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Jun 16 14:16:45 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

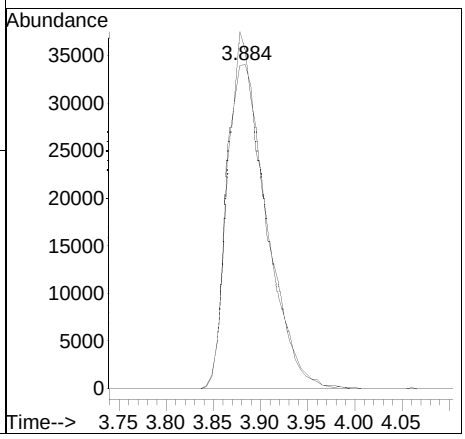


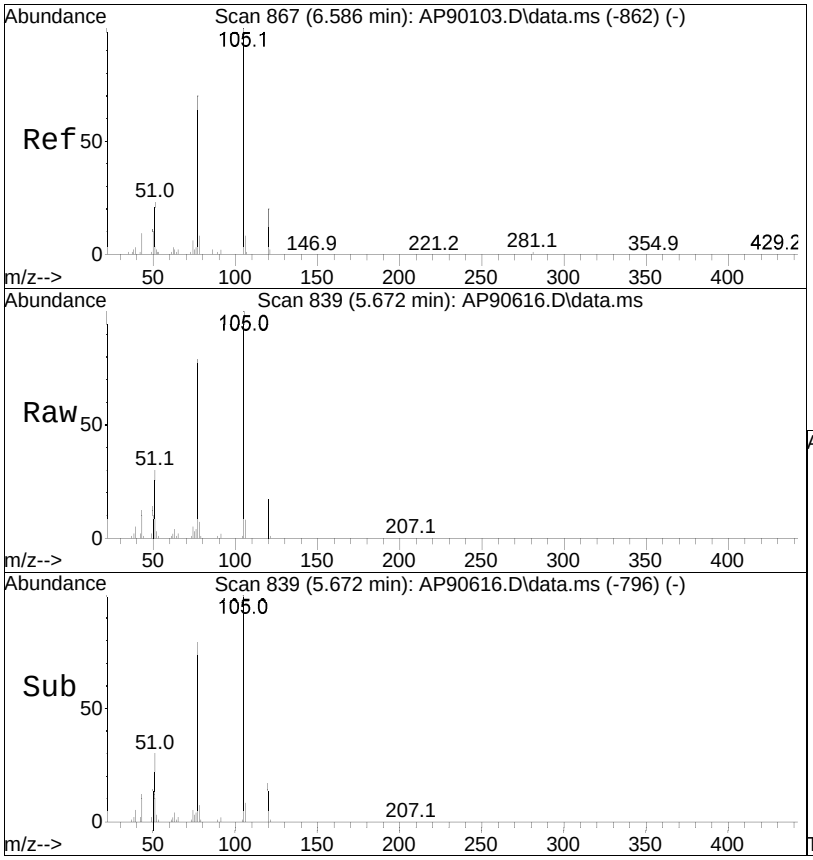


#28
Benzaldehyde
Concen: 5.91 ug/ml
RT: 3.884 min Scan# 535
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:105 Resp: 101456

Ion	Ratio	Lower	Upper
105	100		
77	101.0	82.2	123.4

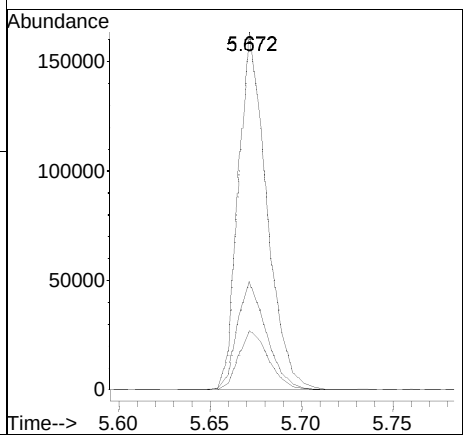


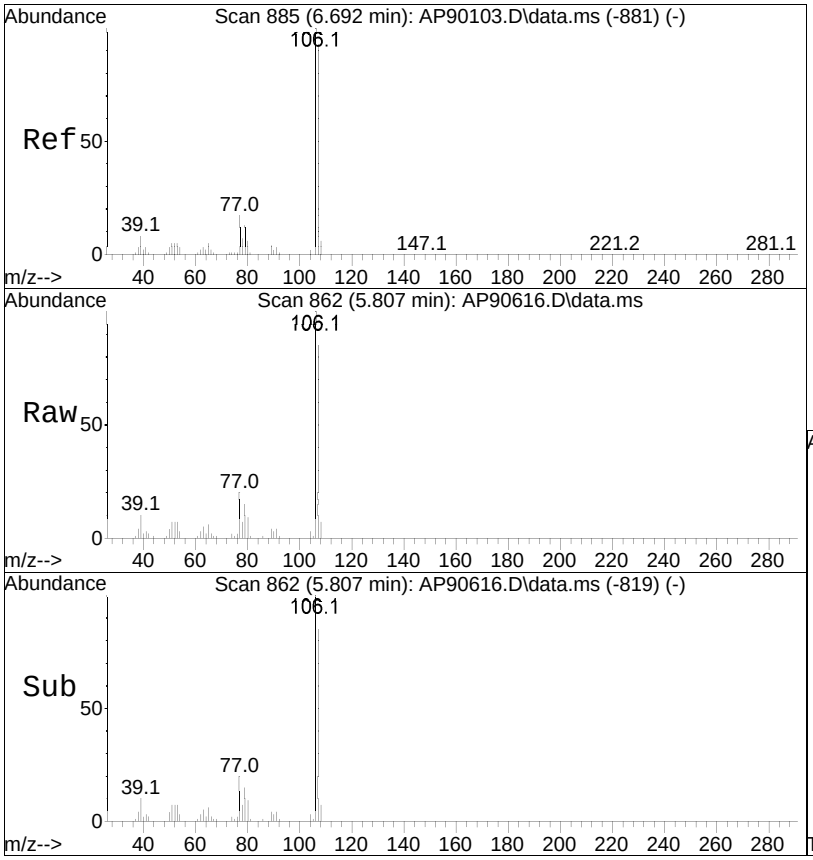


#29
Acetophenone
Concen: 5.64 ug/ml
RT: 5.672 min Scan# 839
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:105 Resp: 175098

Ion	Ratio	Lower	Upper
105	100		
120	17.3	20.5	30.7#
51	31.4	34.9	52.3#

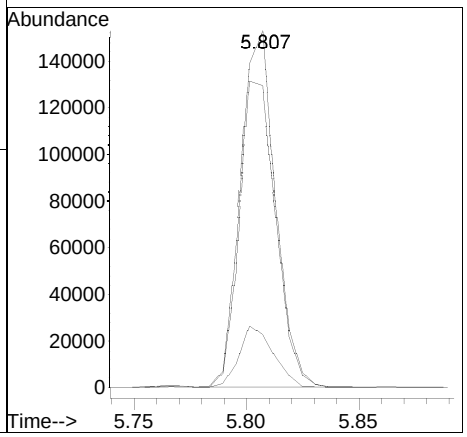


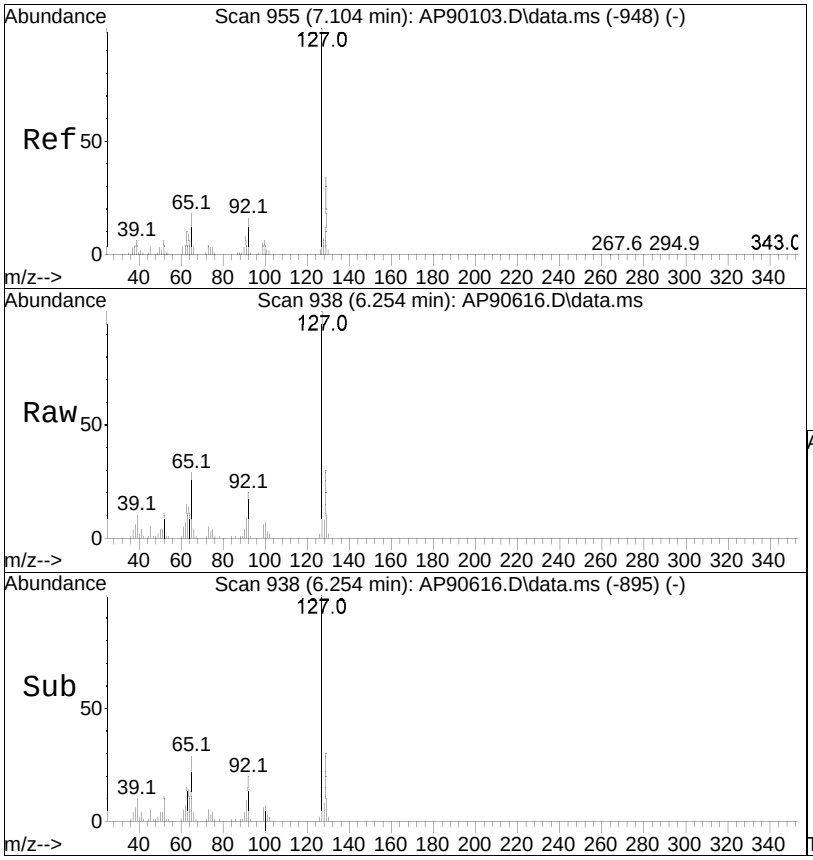


#30
m-Toluidine
Concen: 6.28 ug/ml
RT: 5.807 min Scan# 862
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:106 Resp: 165768

Ion	Ratio	Lower	Upper
106	100		
107	89.3	75.7	113.5
79	17.0	11.8	17.8

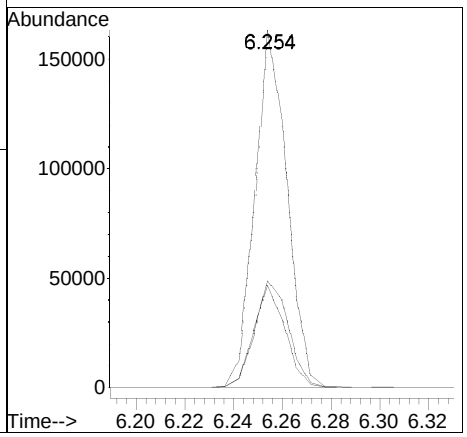


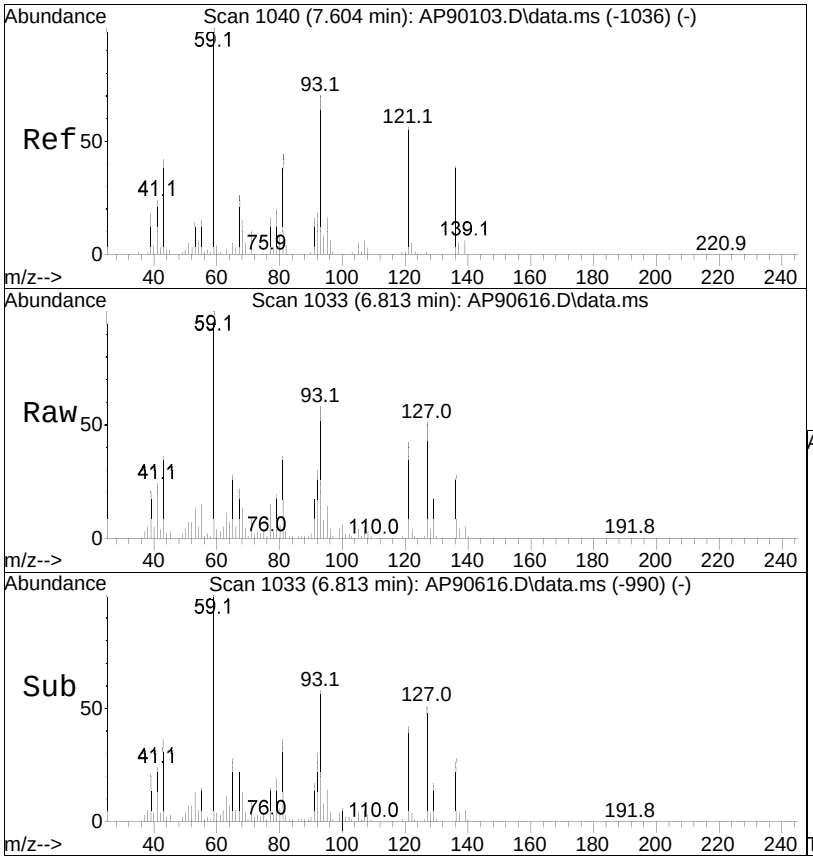


#31
2-Chloroaniline
Concen: 5.84 ug/ml
RT: 6.254 min Scan# 938
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:127 Resp: 148281

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	28.2	26.3	39.5

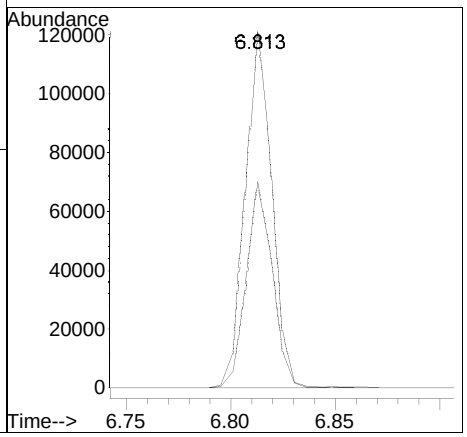


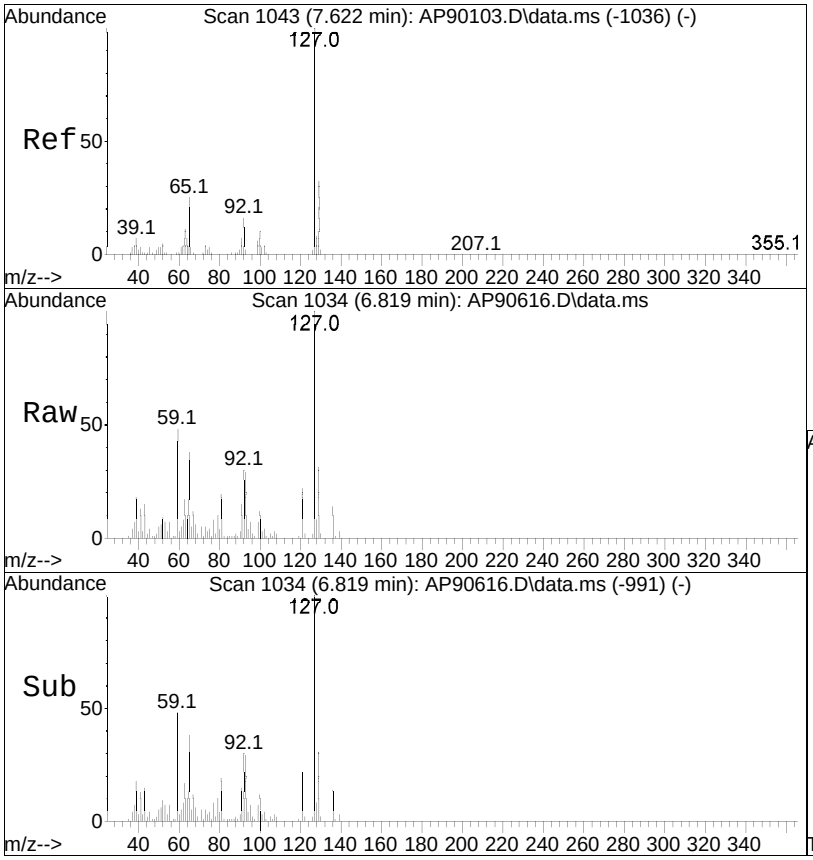


#55
a-Terpineol
Concen: 5.73 ug/ml
RT: 6.813 min Scan# 1033
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion: 59 Resp: 106410

Ion	Ratio	Lower	Upper
59	100		
93	56.6	35.6	53.4#

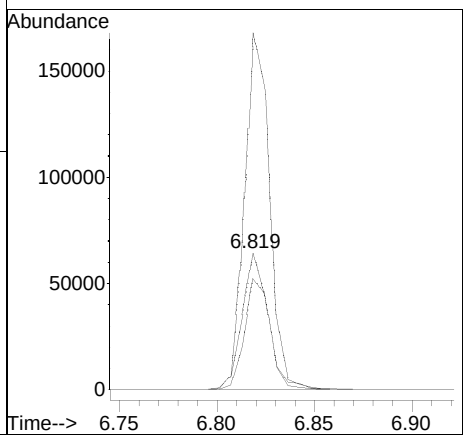


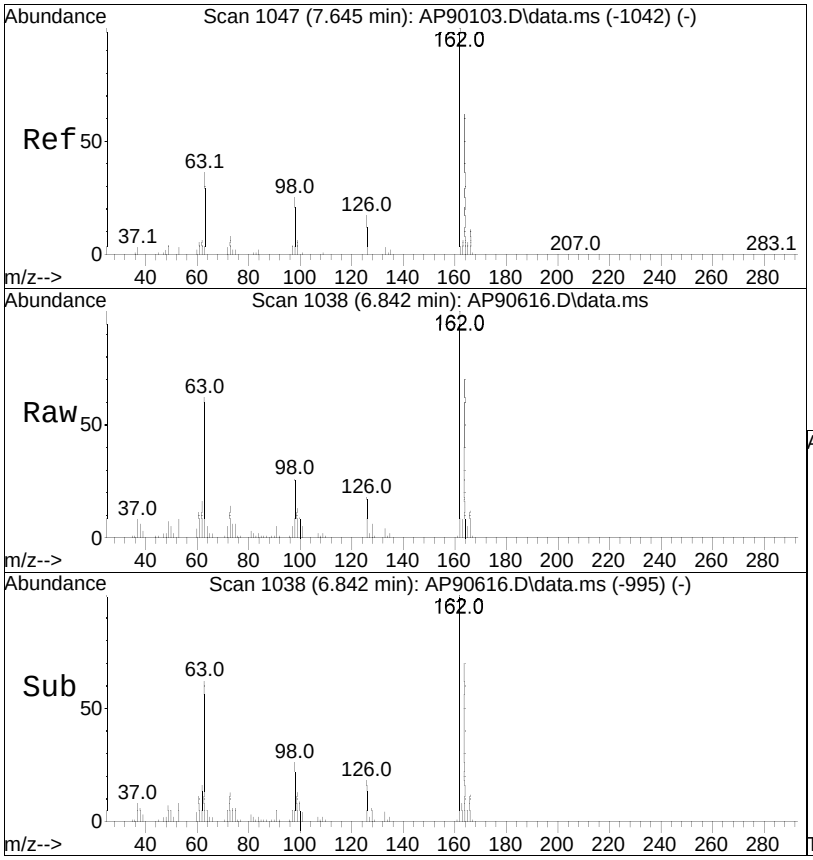


#56
3-Chloroaniline
Concen: 5.81 ug/ml
RT: 6.819 min Scan# 1034
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion: 65 Resp: 59166

Ion	Ratio	Lower	Upper
65	100		
127	250.0	243.2	364.8
129	79.7	78.8	118.2

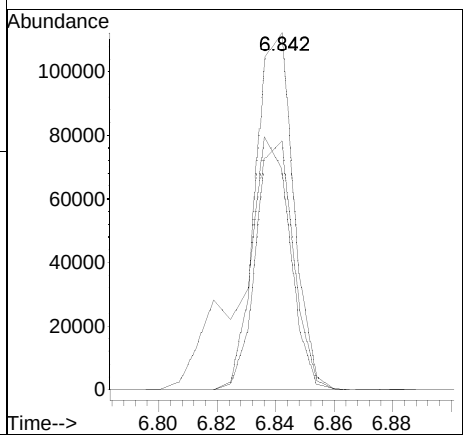


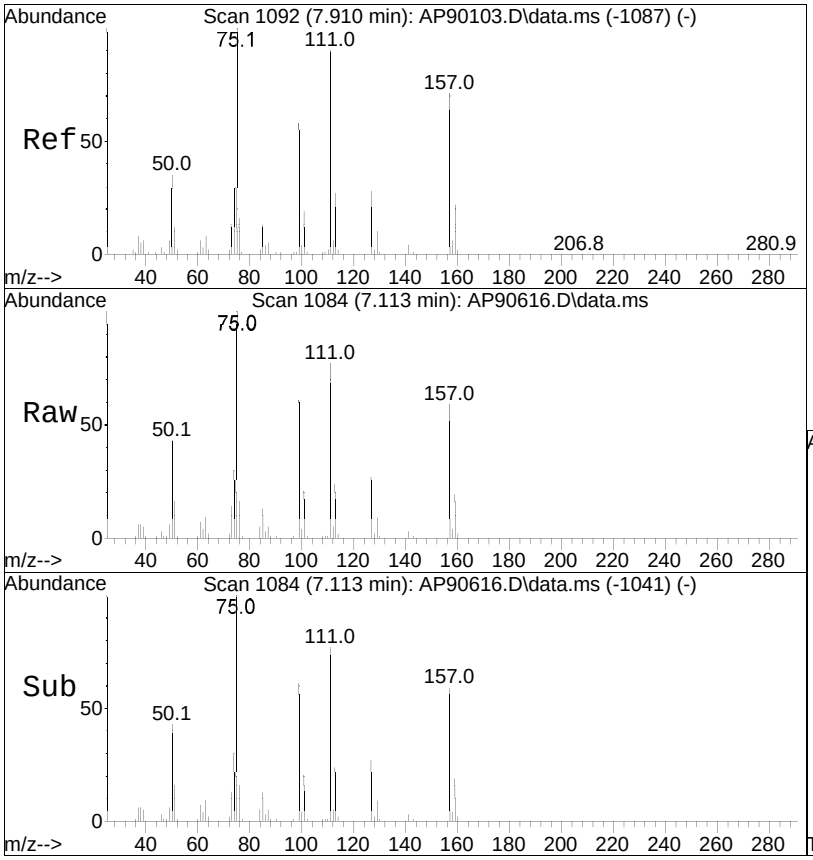


#57
2,6-Dichlorophenol
Concen: 6.02 ug/ml
RT: 6.842 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:162 Resp: 101521

Ion	Ratio	Lower	Upper
162	100		
164	69.3	51.1	76.7
63	93.2	60.8	91.2#

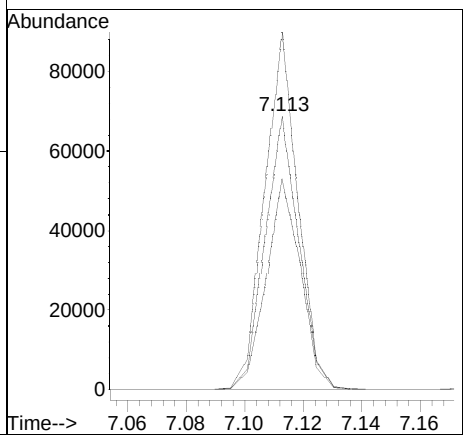


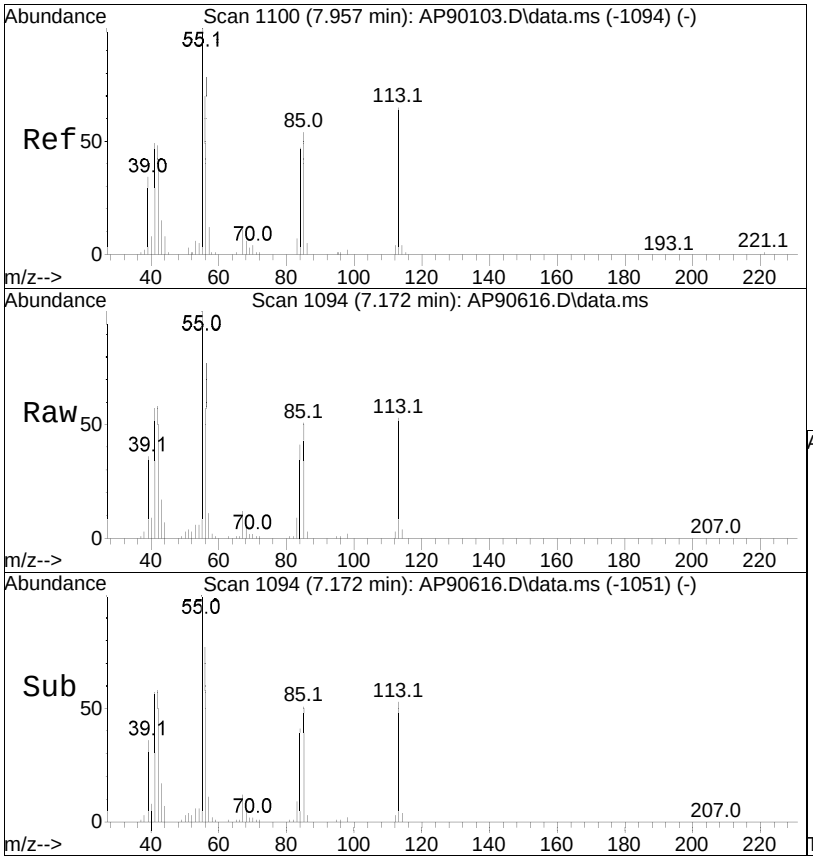


#58
1-chloro-2-nitrobenzene
Concen: 5.67 ug/ml
RT: 7.113 min Scan# 1084
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:111 Resp: 54731

Ion	Ratio	Lower	Upper
111	100		
157	78.2	0.0	0.0#
75	129.0	28.2	42.2#

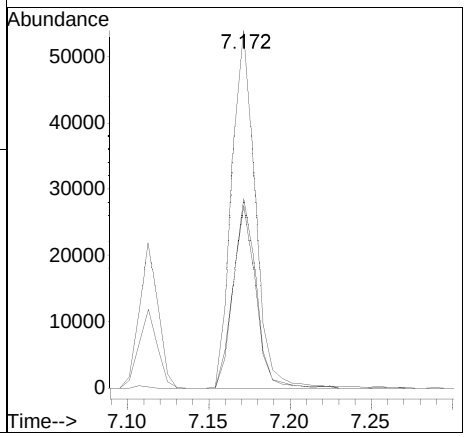


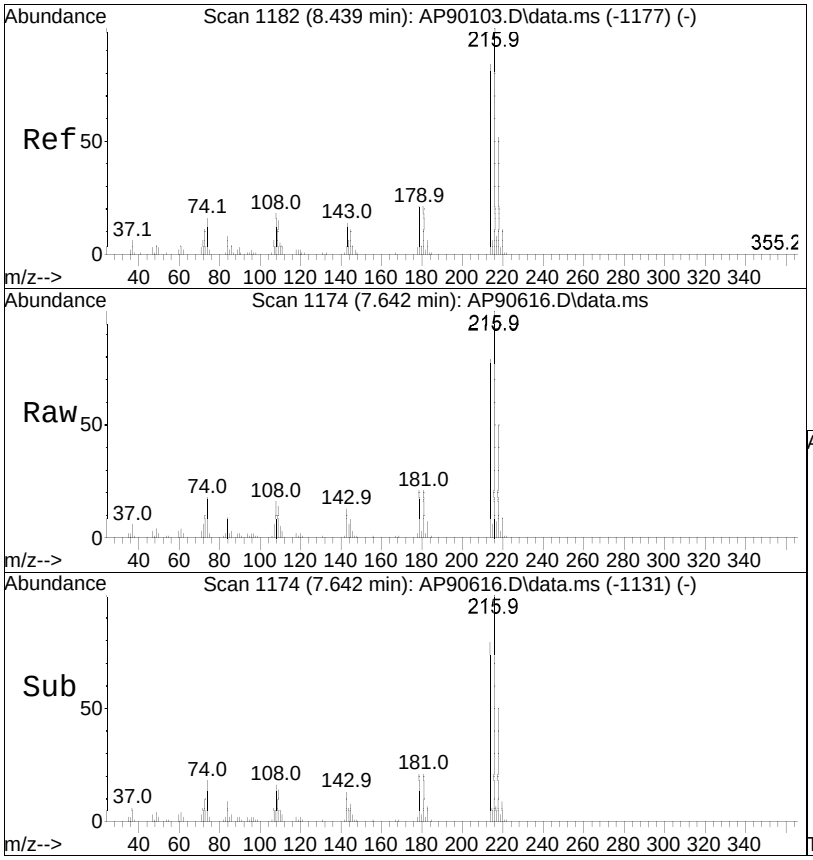


#59
Caprolactam
Concen: 5.53 ug/ml
RT: 7.172 min Scan# 1094
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion: 55 Resp: 54760

Ion	Ratio	Lower	Upper
55	100		
85	49.7	19.8	29.6#
113	51.0	29.6	44.4#

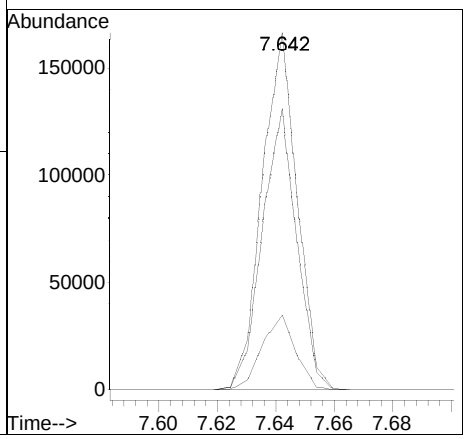


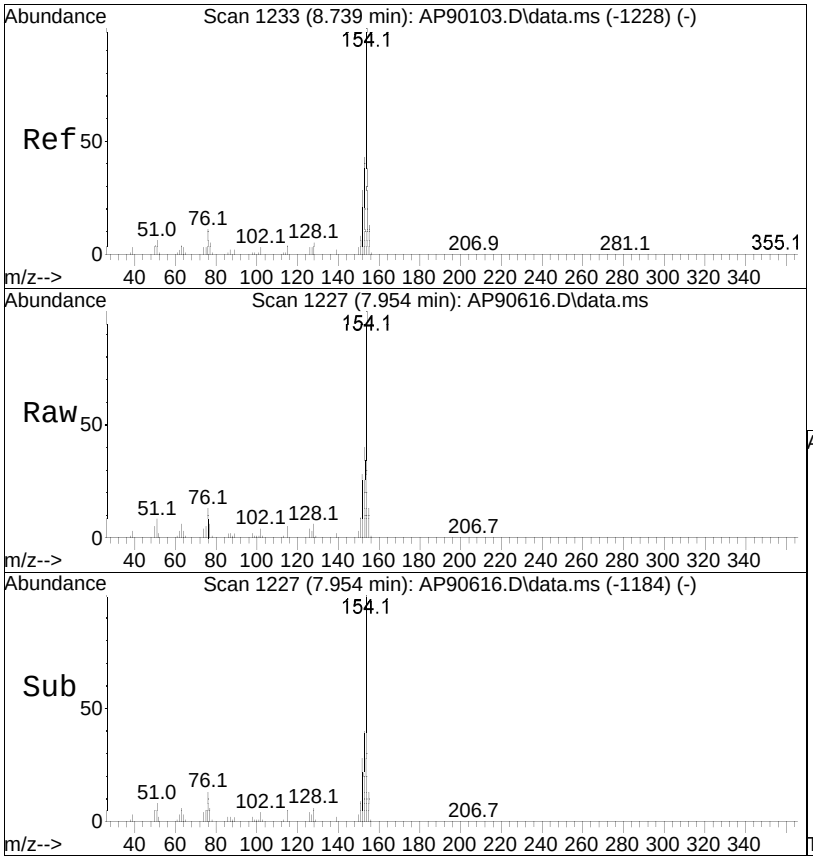


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.33 ug/ml
RT: 7.642 min Scan# 1174
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:216 Resp: 138020

Ion	Ratio	Lower	Upper
216	100		
214	77.5	63.7	95.5
179	20.2	19.0	28.6

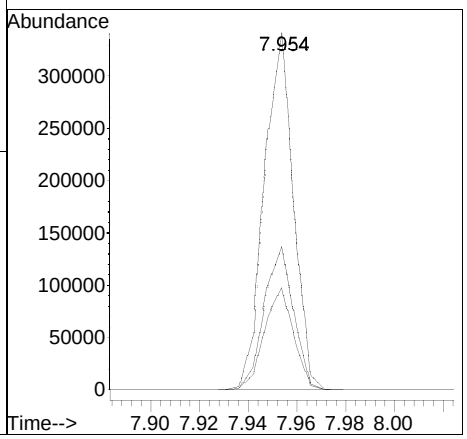


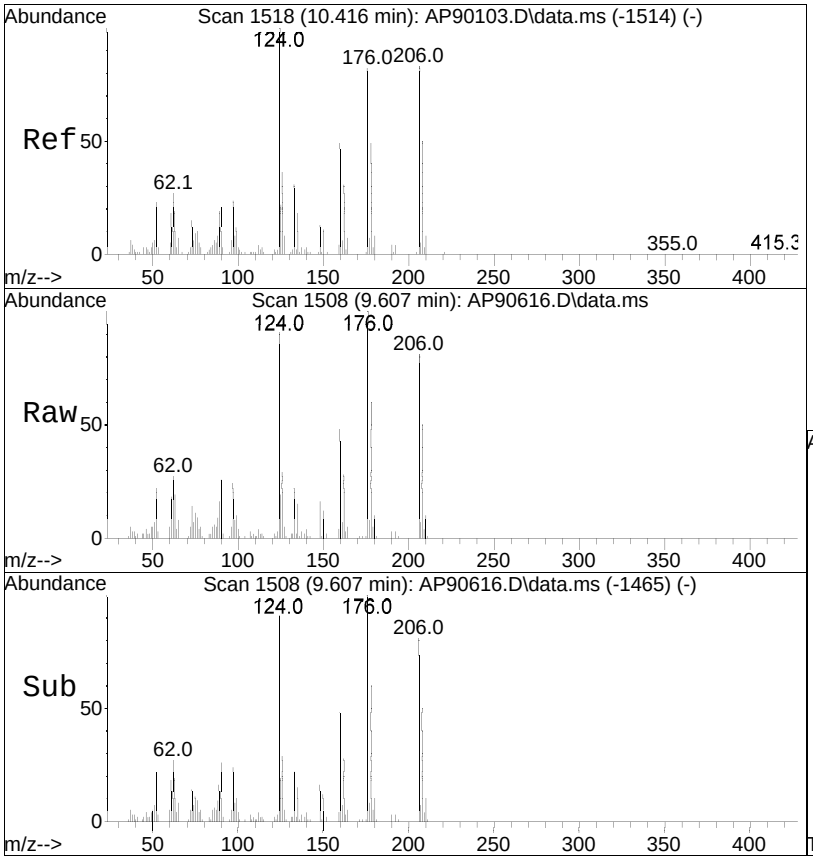


#61
Biphenyl
Concen: 5.54 ug/ml
RT: 7.954 min Scan# 1227
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:154 Resp: 280991

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.0	22.5	33.7

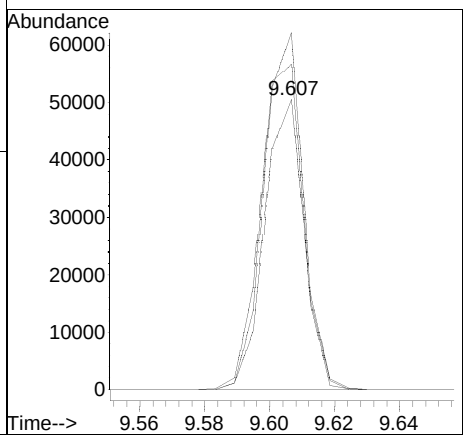


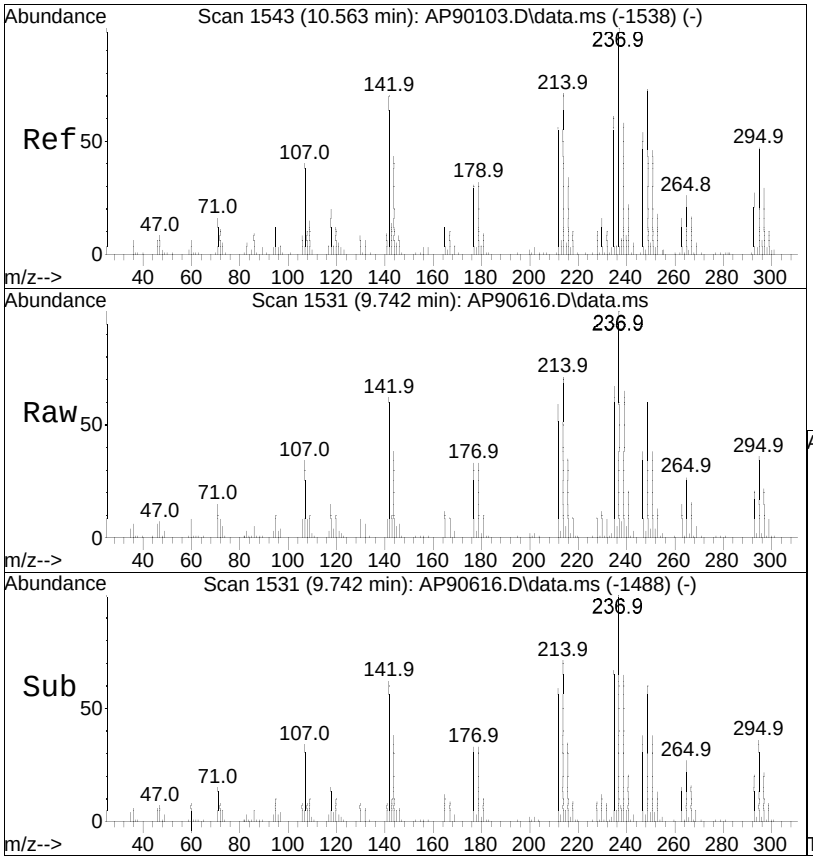


#83
Dichloran
Concen: 6.27 ug/ml
RT: 9.607 min Scan# 1508
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:206 Resp: 42681

Ion	Ratio	Lower	Upper
206	100		
176	122.6	104.6	157.0
124	120.5	130.5	195.7#

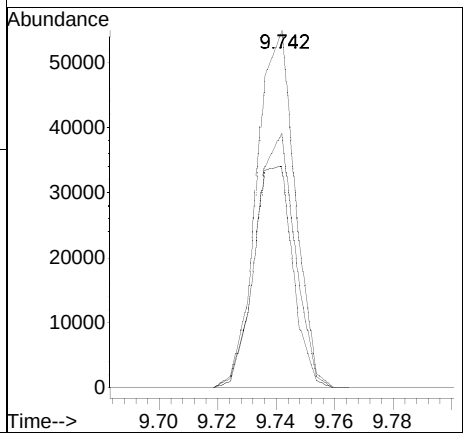


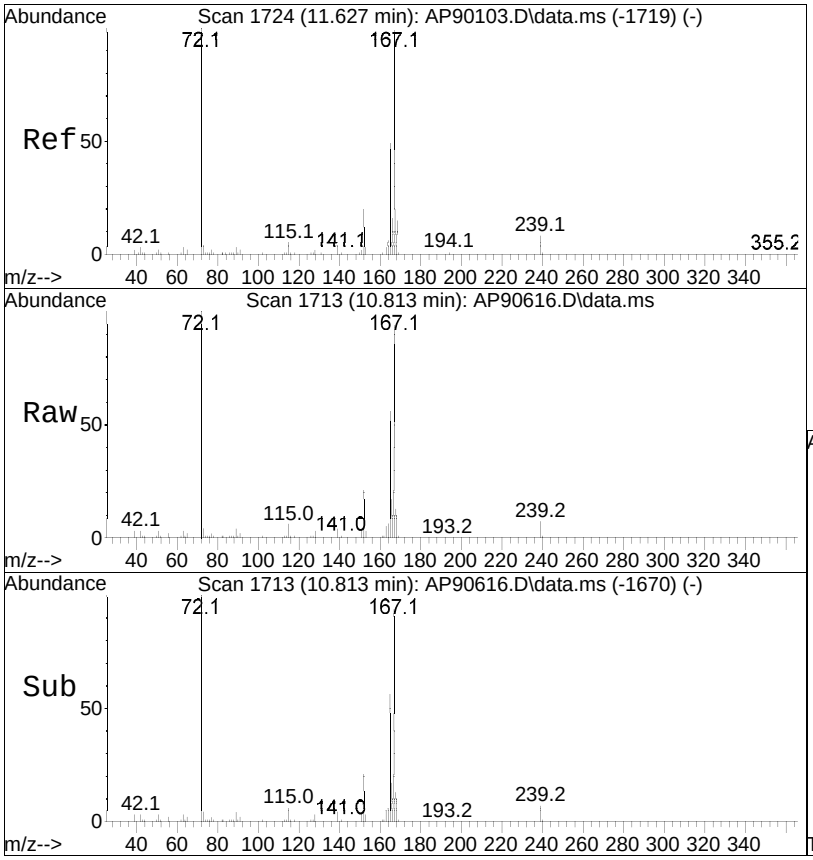


#84
Pentachloronitrobenzene
Concen: 6.07 ug/ml
RT: 9.742 min Scan# 1531
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:237 Resp: 50127

Ion	Ratio	Lower	Upper
237	100		
142	63.9	77.0	115.4#
214	71.9	58.2	87.4

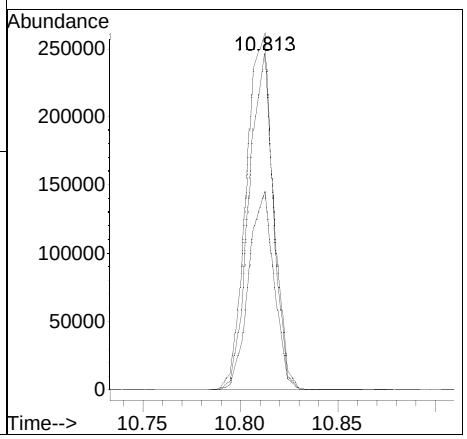




#98
Diphenamid
Concen: 6.19 ug/ml
RT: 10.813 min Scan# 1713
Delta R.T. 0.000 min
Lab File: AP90616.D
Acq: 16 Jun 2024 1:54 pm

Tgt Ion:167 Resp: 218560

Ion	Ratio	Lower	Upper
167	100		
72	112.3	109.7	164.5
165	60.3	41.8	62.6



Manual Integration Report

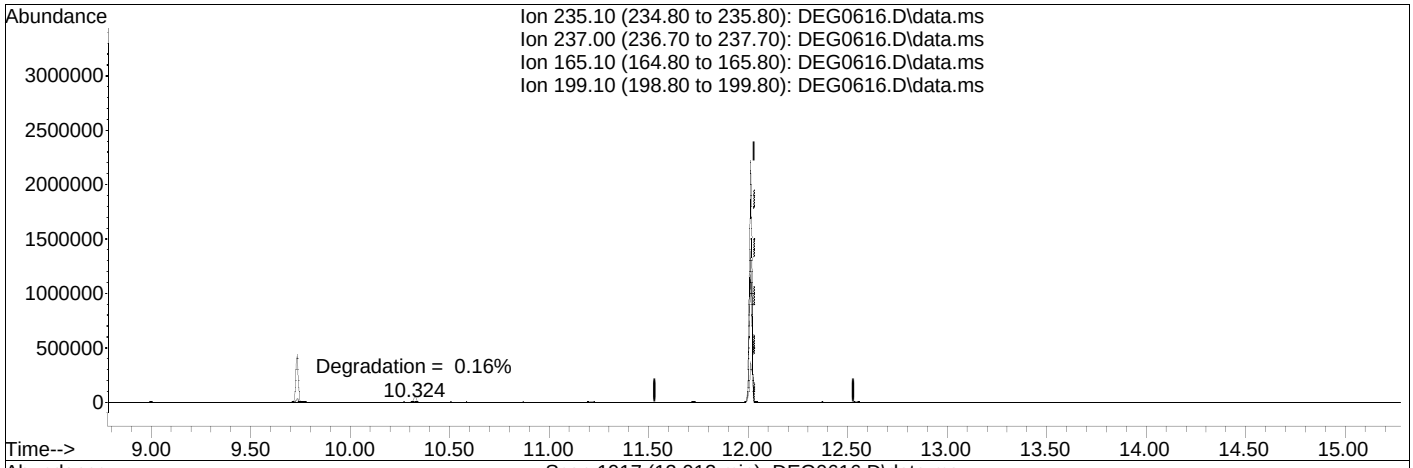
Data Path	: I:\8270\SV106\240616aRVT\	QMethod	: FS240418SV106.m
Data File	: AP90616.D	Operator	: SV106:sz
Date Inj'd	: 6/16/2024 1:54 pm	Instrument	: SV 106
Sample	: wg1934989-4,32,,AP9 10776	Quant Date	: 6/16/2024 2:17 pm

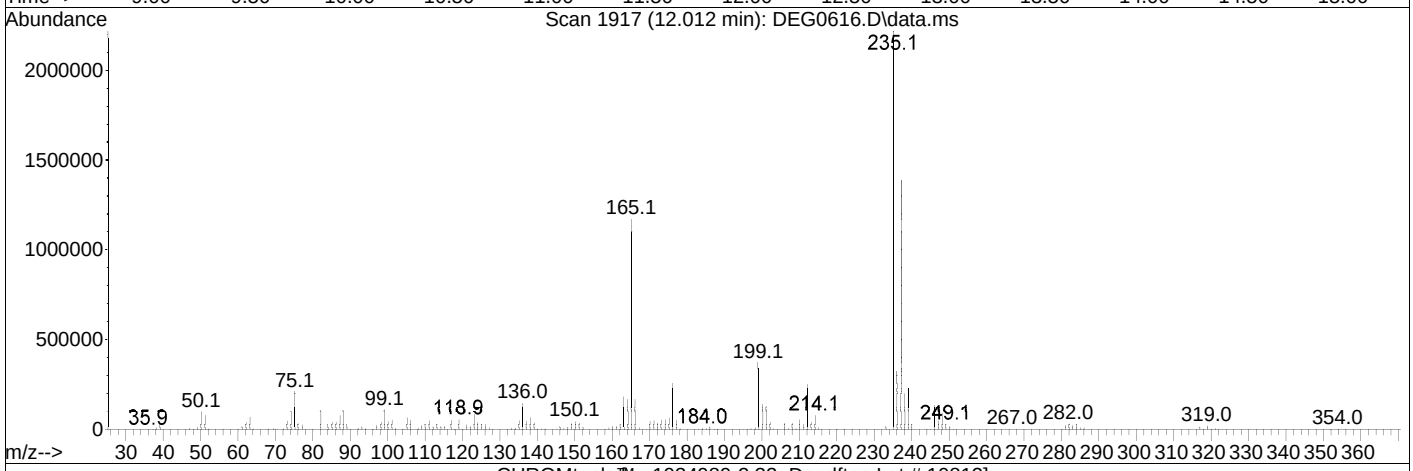
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240616aRVT\
Data File : DEG0616.D
Acq On : 16 Jun 2024 12:43 pm
Operator : SV106:sz
Sample : wg1934989-2,32,,Degdftpp Lot # 10812
Misc : wg1934989,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 16 13:05:40 2024
Quant Method : I:\8270\SV106\240616aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools™ [wg1934989-2,32,,Degdftpp Lot # 10812]

(6) DDT (T)

12.012min (-0.018) 333.65

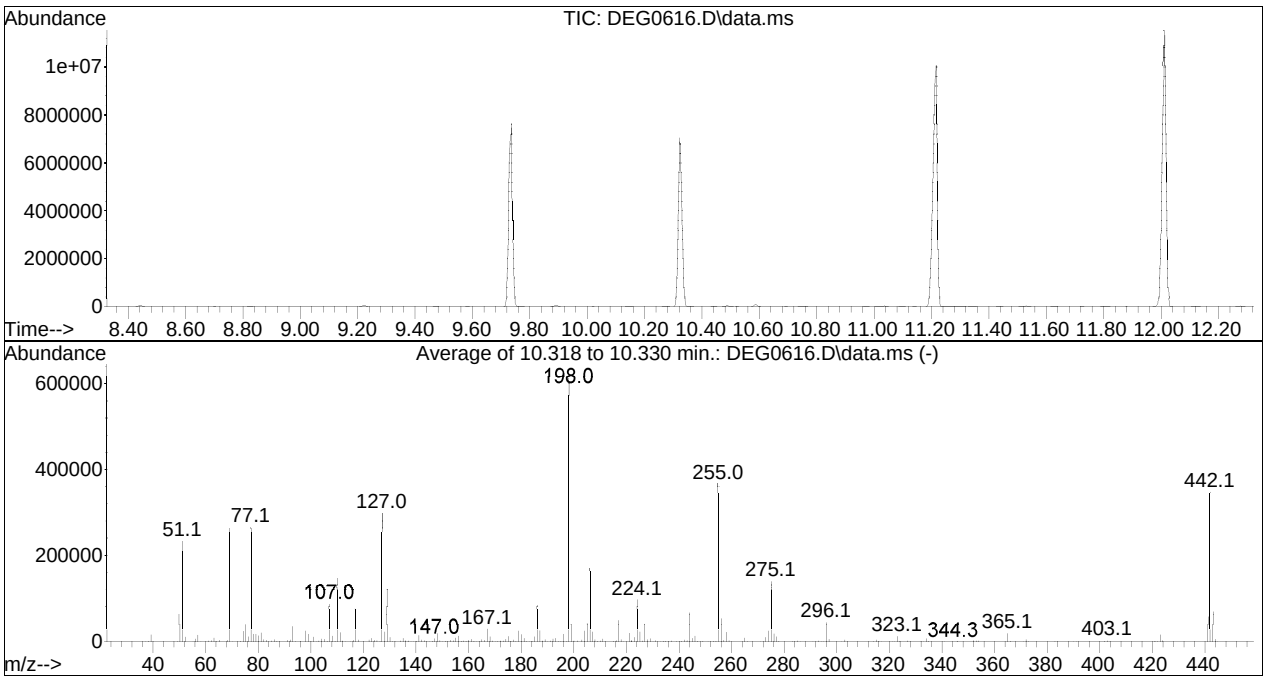
response 2033831

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.36
165.10	44.50	53.50
199.10	14.80	16.89

Data Path : I:\8270\SV106\240616aRVT\
Data File : DEG0616.D
Acq On : 16 Jun 2024 12:43 pm
Operator : SV106:cmm
Sample : WG1934989-1,32,,Degdftpp Lot # 10812
Misc : WG1934989,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Jun 15 10:03:43 2024



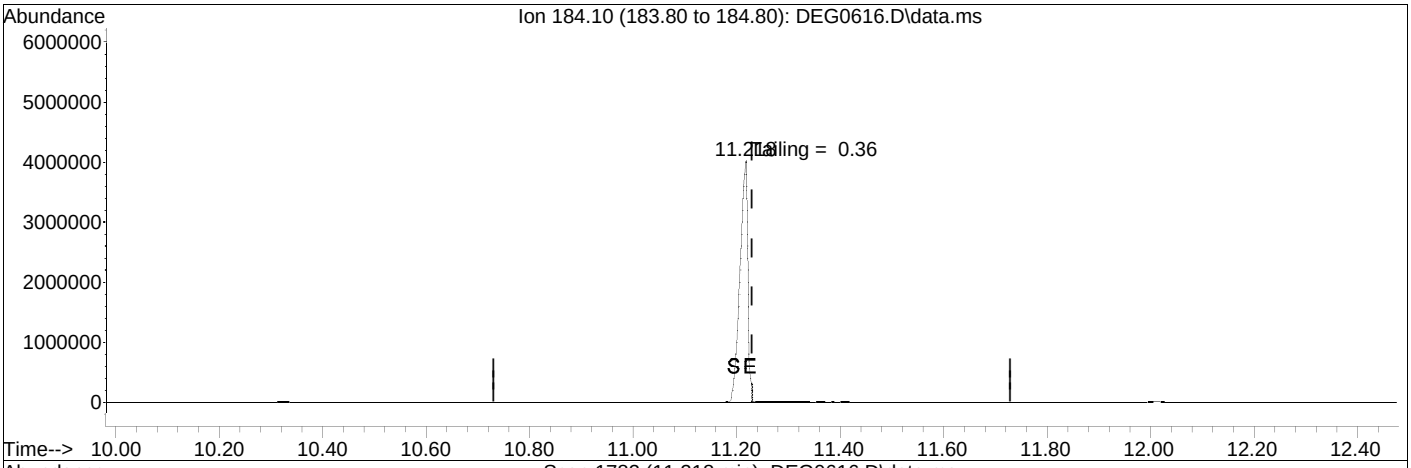
Spectrum Information: Average of 10.318 to 10.330 min.

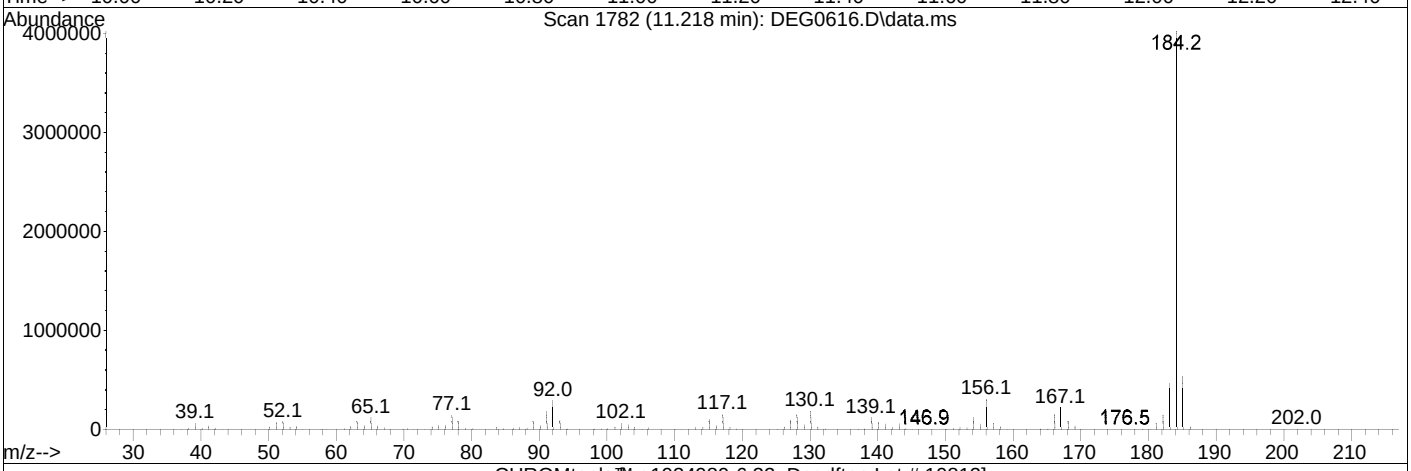
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	232469	PASS
68	69	0.00	2	1.6	4145	PASS
69	69	100	100	100.0	263442	PASS
70	69	0.00	2	0.4	1171	PASS
127	198	10	80	48.7	298789	PASS
197	198	0.00	2	0.2	1368	PASS
198	198	100	100	100.0	614101	PASS
199	198	5	9	6.7	41392	PASS
275	198	10	60	22.8	139909	PASS
365	198	1	100	3.2	19690	PASS
441	442	0.01	24	16.2	56221	PASS
442	198	50	100	56.5	347243	PASS
443	442	15	24	19.6	68197	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240616aRVT\
Data File : DEG0616.D
Acq On : 16 Jun 2024 12:43 pm
Operator : SV106:sz
Sample : wg1934989-6,32,,Degdftpp Lot # 10812
Misc : wg1934989,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 16 13:05:40 2024
Quant Method : I:\8270\SV106\240616aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools™ [wg1934989-6,32,,Degdftpp Lot # 10812]

(3) Benzidine (T)

11.218min (-0.012) 396.78

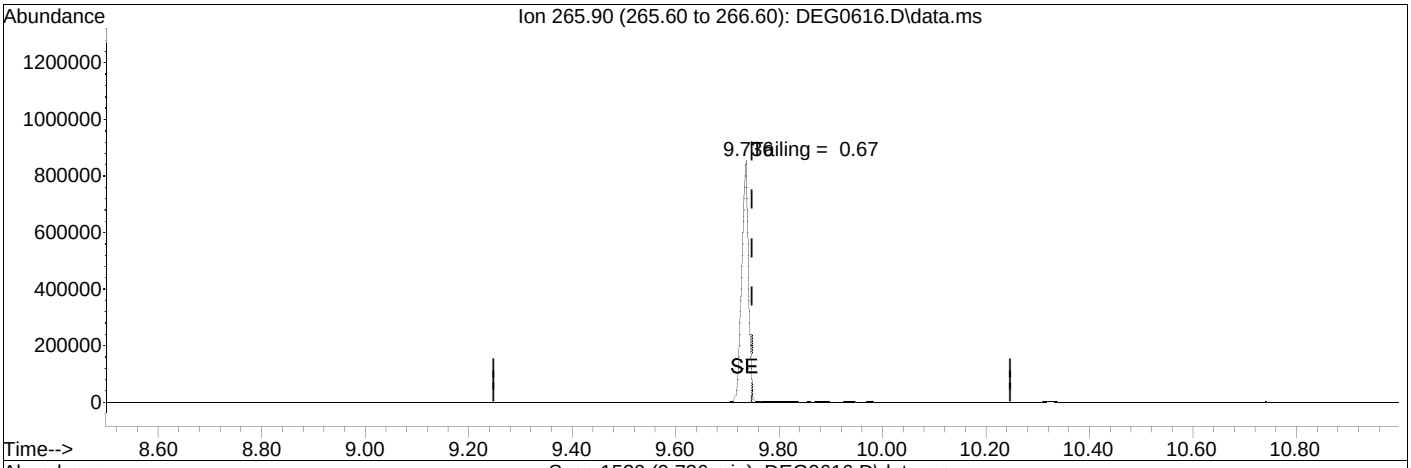
response 4039279

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240616aRVT\
Data File : DEG0616.D
Acq On : 16 Jun 2024 12:43 pm
Operator : SV106:sz
Sample : wg1934989-7,32,,Degdftpp Lot # 10812
Misc : wg1934989,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 16 13:05:40 2024
Quant Method : I:\8270\SV106\240616aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration



CHROMtools [wg1934989-7,32,,Degdftpp Lot # 10812]

(1) Pentachlorophenol (T)

9.736min (-0.012) 344.14

response 722822

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
n-Nitrosodimethylamine	0.789	0.848	-	-7.5	20	143	0
Pyridine	1.181	1.141	-	3.4	20	114	0
2-Fluorophenol	1.131	1.156	-	-2.2	20	134	0
Aniline	1.89	1.765	-	6.6	20	122	0
2-Chlorophenol	1.23	1.27	-	-3.3	20	131	0
Phenol-d6	1.461	1.652	-	-13.1	20	144	0
Phenol	1.557	1.646	-	-5.7	20	135	0
Bis(2-chloroethyl)ether	1.229	1.208	-	1.7	20	126	0
1,3-Dichlorobenzene	1.423	1.414	-	0.6	20	130	0
1,4-Dichlorobenzene	1.486	1.436	-	3.4	20	132	0
1,2-Dichlorobenzene	1.357	1.379	-	-1.6	20	133	0
Benzyl alcohol	1.189	1.152	-	3.1	20	122	0
Bis(2-chloroisopropyl)ethe	1.817	1.592	-	12.4	20	113	0
2-Methylphenol	1.108	1.148	-	-3.6	20	135	0
Hexachloroethane	0.606	0.601	-	0.8	20	126	0
n-Nitrosodi-n-propylamine	1.034	0.963	-	6.9	20	117	0
3-Methylphenol/4-Methylphe	1.204	1.202	-	0.2	20	129	0
Nitrobenzene-d5	1.564	1.526	-	2.4	20	124	0
Nitrobenzene	1.505	1.453	-	3.5	20	120	0
Isophorone	2.67	2.598	-	2.7	20	122	0
2-Nitrophenol	0.622	0.688	-	-10.6	20	144	0
2,4-Dimethylphenol	1.261	1.03	-	18.3	20	104	0
Bis(2-chloroethoxy)methane	1.675	1.576	-	5.9	20	123	0
2,4-Dichlorophenol	1.149	1.149	-	0	20	125	0
1,2,4-Trichlorobenzene	1.404	1.346	-	4.1	20	126	0
IS1_Naphthalene-d8	1	1	-	0	20	119	0
Naphthalene	1.066	1.051	-	1.4	20	128	0
Benzoic Acid	5	5.702	-	-14	20	153	0
4-Chloroaniline	0.16	0.148	-	7.5	20	117	0
Hexachlorobutadiene	0.275	0.245	-	10.9	20	117	0
p-Chloro-m-cresol	0.327	0.336	-	-2.8	20	126	0
2-Methylnaphthalene	0.711	0.69	-	3	20	123	0
1-Methylnaphthalene	0.297	0.275	-	7.4	20	121	0
Hexachlorocyclopentadiene	0.273	0.252	-	7.7	20	116	0
2,4,6-Trichlorophenol	0.266	0.284	-	-6.8	20	128	0
2,4,5-Trichlorophenol	0.289	0.3	-	-3.8	20	125	0
2-Fluorobiphenyl	0.928	0.844	-	9.1	20	117	0
2-Chloronaphthalene	0.743	0.688	-	7.4	20	118	0
2-Nitroaniline	0.215	0.237	-	-10.2	20	137	0
1,4-Dinitrobenzene	0.114	0.119	-	-4.4	20	125	0
1,3-Dinitrobenzene	0.13	0.13	-	0	20	120	0
Dimethyl phthalate	0.982	0.925	-	5.8	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.142	-	1.1	20	125	0
2,6-Dinitrotoluene	0.197	0.193	-	2	20	121	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	129	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.293	0.339	-	-15.7	20	134	0
Acenaphthene	0.991	0.988	-	0.3	20	118	0
2,4-Dinitrophenol	5	6.155	-	-23.1*	20	157	0
Dibenzofuran	1.734	1.649	-	4.9	20	118	0
2,4-Dinitrotoluene	0.398	0.432	-	-8.5	20	120	0
4-Nitrophenol	0.314	0.357	-	-13.7	20	123	0
2,3,5,6-Tetrachlorophenol	0.353	0.426	-	-20.7*	20	129	0
2,3,4,6-Tetrachlorophenol	0.346	0.404	-	-16.8	20	129	0
Diethyl phthalate	1.443	1.488	-	-3.1	20	118	0
Fluorene	1.363	1.324	-	2.9	20	117	0
4-Chlorophenyl phenyl ethe	0.717	0.654	-	8.8	20	112	0
4-Nitroaniline	0.287	0.34	-	-18.5	20	131	0
4,6-Dinitro-o-cresol	0.224	0.299	-	-33.5*	20	149	0
NDPA/DPA	1.122	1.115	-	0.6	20	116	0
Azobenzene	1.43	1.267	-	11.4	20	105	0
2,4,6-Tribromophenol	0.213	0.232	-	-8.9	20	124	0
4-Bromophenyl phenyl ether	0.427	0.393	-	8	20	110	0
Hexachlorobenzene	0.494	0.45	-	8.9	20	113	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	134	0
IS1_Phenanthrene-d10	1	1	-	0	20	108	0
Phenanthrene	0.988	0.951	-	3.7	20	117	0
Anthracene	0.977	0.983	-	-0.6	20	119	0
Carbazole	0.894	0.948	-	-6	20	121	0
Di-n-butylphthalate	1.089	1.203	-	-10.5	20	124	0
Fluoranthene	1.131	1.147	-	-1.4	20	118	0
Benzidine	0.648	0.779	-	-20.2*	20	128	0
Pyrene	1.194	1.225	-	-2.6	20	121	0
4-Terphenyl-d14	0.861	0.83	-	3.6	20	114	0
Butyl benzyl phthalate	0.463	0.589	-	-27.2*	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.294	1.343	-	-3.8	20	127	0
3,3'-Dichlorobenzidine	0.446	0.516	-	-15.7	20	137	0
Chrysene	1.277	1.232	-	3.5	20	121	0
Bis(2-ethylhexyl)phthalate	0.767	0.947	-	-23.5*	20	146	0
Di-n-octylphthalate	1.257	1.659	-	-32*	20	155	0
Benzo(b)fluoranthene	1.181	1.228	-	-4	20	119	0
Benzo(k)fluoranthene	1.154	1.268	-	-9.9	20	140	0
Benzo(a)pyrene	1.058	1.195	-	-12.9	20	136	0
IS1_Perylene-d12	1	1	-	0	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.041	-	-5.9	20	139	0
Dibenzo(a,h)anthracene	0.935	0.994	-	-6.3	20	136	0
Benzo(ghi)perylene	0.923	1.013	-	-9.8	20	143	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:30		
Lab File ID	: ADP0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Decane	1.537	1.364	-	11.3	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	102	0
Atrazine	0.403	0.419	-	-4	20	109	0
IS3_Phenanthrene-d10	1	1	-	0	20	99	0
n-Octadecane	0.44	0.42	-	4.5	20	96	0
Parathion	0.121	0.139	-	-14.9	20	127	0
3,3'-Dimethylbenzidine	5	4.992	-	0.2	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:54		
Lab File ID	: AP90616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	1.095	1.294	-	-18.2	20	140	0
Acetophenone	1.981	2.234	-	-12.8	20	130	0
m-Toluidine	1.685	2.115	-	-25.5*	20	133	0
2-Chloroaniline	1.619	1.892	-	-16.9	20	131	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.33	0.378	-	-14.5	20	125	0
3-Chloroaniline	0.181	0.21	-	-16	20	120	0
2,6-Dichlorophenol	0.3	0.361	-	-20.3*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.195	-	-13.4	20	131	0
Caprolactam	0.176	0.195	-	-10.8	20	123	0
1,2,4,5-Tetrachlorobenzene	0.461	0.491	-	-6.5	20	120	0
Biphenyl	0.901	0.999	-	-10.9	20	120	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.191	0.24	-	-25.7*	20	131	0
Pentachloronitrobenzene	0.232	0.282	-	-21.6*	20	133	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.451	0.559	-	-23.9*	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:12		
Lab File ID	: AP90618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
Benzaldehyde	1.095	1.28	-	-16.9	20	151	0
Acetophenone	1.981	2.198	-	-11	20	140	0
m-Toluidine	1.685	2.112	-	-25.3*	20	144	0
2-Chloroaniline	1.619	1.864	-	-15.1	20	141	0
IS2_Naphthalene-d8	1	1	-	0	20	113	0
a-Terpineol	0.33	0.386	-	-17	20	141	0
3-Chloroaniline	0.181	0.207	-	-14.4	20	130	0
2,6-Dichlorophenol	0.3	0.371	-	-23.7*	20	151	0
1-chloro-2-nitrobenzene	0.172	0.194	-	-12.8	20	144	0
Caprolactam	0.176	0.204	-	-15.9	20	142	0
1,2,4,5-Tetrachlorobenzene	0.461	0.48	-	-4.1	20	129	0
Biphenyl	0.901	0.986	-	-9.4	20	131	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	0.191	0.25	-	-30.9*	20	149	0
Pentachloronitrobenzene	0.232	0.295	-	-27.2*	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.451	0.587	-	-30.2*	20	145	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.857	-	-8.6	20	109	0
Pyridine	1.181	1.309	-	-10.8	20	99	0
2-Fluorophenol	1.131	1.206	-	-6.6	20	106	0
Aniline	1.89	1.831	-	3.1	20	95	0
2-Chlorophenol	1.23	1.339	-	-8.9	20	104	0
Phenol-d6	1.461	1.707	-	-16.8	20	112	0
Phenol	1.557	1.701	-	-9.2	20	105	0
Bis(2-chloroethyl)ether	1.229	1.236	-	-0.6	20	97	0
1,3-Dichlorobenzene	1.423	1.463	-	-2.8	20	101	0
1,4-Dichlorobenzene	1.486	1.464	-	1.5	20	101	0
1,2-Dichlorobenzene	1.357	1.425	-	-5	20	103	0
Benzyl alcohol	1.189	1.205	-	-1.3	20	96	0
Bis(2-chloroisopropyl)ethe	1.817	1.648	-	9.3	20	88	0
2-Methylphenol	1.108	1.163	-	-5	20	103	0
Hexachloroethane	0.606	0.619	-	-2.1	20	98	0
n-Nitrosodi-n-propylamine	1.034	0.988	-	4.4	20	90	0
3-Methylphenol/4-Methylphe	1.204	1.25	-	-3.8	20	101	0
Nitrobenzene-d5	1.564	1.585	-	-1.3	20	97	0
Nitrobenzene	1.505	1.538	-	-2.2	20	95	0
Isophorone	2.67	2.61	-	2.2	20	93	0
2-Nitrophenol	0.622	0.713	-	-14.6	20	112	0
2,4-Dimethylphenol	1.261	1.057	-	16.2	20	80	0
Bis(2-chloroethoxy)methane	1.675	1.647	-	1.7	20	97	0
2,4-Dichlorophenol	1.149	1.165	-	-1.4	20	96	0
1,2,4-Trichlorobenzene	1.404	1.372	-	2.3	20	97	0
IS1_Naphthalene-d8	1	1	-	0	20	91	0
Naphthalene	1.066	1.064	-	0.2	20	98	0
Benzoic Acid	5	5.473	-	-9.5	20	112	0
4-Chloroaniline	0.16	0.152	-	5	20	91	0
Hexachlorobutadiene	0.275	0.248	-	9.8	20	90	0
p-Chloro-m-cresol	0.327	0.334	-	-2.1	20	95	0
2-Methylnaphthalene	0.711	0.683	-	3.9	20	93	0
1-Methylnaphthalene	0.297	0.28	-	5.7	20	94	0
Hexachlorocyclopentadiene	0.273	0.249	-	8.8	20	87	0
2,4,6-Trichlorophenol	0.266	0.275	-	-3.4	20	94	0
2,4,5-Trichlorophenol	0.289	0.294	-	-1.7	20	93	0
2-Fluorobiphenyl	0.928	0.851	-	8.3	20	89	0
2-Chloronaphthalene	0.743	0.691	-	7	20	90	0
2-Nitroaniline	0.215	0.239	-	-11.2	20	105	0
1,4-Dinitrobenzene	0.114	0.124	-	-8.8	20	99	0
1,3-Dinitrobenzene	0.13	0.139	-	-6.9	20	97	0
Dimethyl phthalate	0.982	0.915	-	6.8	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.156	-	-0.1	20	96	0
2,6-Dinitrotoluene	0.197	0.204	-	-3.6	20	97	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	82	0
3-Nitroaniline	0.293	0.349	-	-19.1	20	104	0
Acenaphthene	0.991	1.018	-	-2.7	20	91	0
2,4-Dinitrophenol	5	6.198	-	-24*	20	119	0
Dibenzofuran	1.734	1.682	-	3	20	91	0
2,4-Dinitrotoluene	0.398	0.453	-	-13.8	20	94	0
4-Nitrophenol	0.314	0.379	-	-20.7*	20	98	0
2,3,5,6-Tetrachlorophenol	0.353	0.425	-	-20.4*	20	97	0
2,3,4,6-Tetrachlorophenol	0.346	0.397	-	-14.7	20	96	0
Diethyl phthalate	1.443	1.502	-	-4.1	20	90	0
Fluorene	1.363	1.351	-	0.9	20	90	0
4-Chlorophenyl phenyl ethe	0.717	0.662	-	7.7	20	85	0
4-Nitroaniline	0.287	0.366	-	-27.5*	20	106	0
4,6-Dinitro-o-cresol	0.224	0.294	-	-31.2*	20	110	0
NDPA/DPA	1.122	1.14	-	-1.6	20	89	0
Azobenzene	1.43	1.343	-	6.1	20	84	0
2,4,6-Tribromophenol	0.213	0.23	-	-8	20	92	0
4-Bromophenyl phenyl ether	0.427	0.392	-	8.2	20	82	0
Hexachlorobenzene	0.494	0.457	-	7.5	20	86	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	101	0
IS1_Phenanthrene-d10	1	1	-	0	20	79	0
Phenanthrene	0.988	0.997	-	-0.9	20	89	0
Anthracene	0.977	1.002	-	-2.6	20	89	0
Carbazole	0.894	1.001	-	-12	20	94	0
Di-n-butylphthalate	1.089	1.256	-	-15.3	20	95	0
Fluoranthene	1.131	1.1	-	2.7	20	83	0
Benzidine	0.648	0.878	-	-35.5*	20	105	0
Pyrene	1.194	1.301	-	-9	20	93	0
4-Terphenyl-d14	0.861	0.871	-	-1.2	20	87	0
Butyl benzyl phthalate	0.463	0.641	-	-38.4*	20	114	0
IS1_Chrysene-d12	1	1	-	0	20	88	0
Benzo(a)anthracene	1.294	1.365	-	-5.5	20	100	0
3,3'-Dichlorobenzidine	0.446	0.536	-	-20.2*	20	110	0
Chrysene	1.277	1.32	-	-3.4	20	100	0
Bis(2-ethylhexyl)phthalate	0.767	0.982	-	-28*	20	117	0
Di-n-octylphthalate	1.257	1.742	-	-38.6*	20	126	0
Benzo(b)fluoranthene	1.181	1.436	-	-21.6*	20	108	0
Benzo(k)fluoranthene	1.154	1.17	-	-1.4	20	100	0
Benzo(a)pyrene	1.058	1.266	-	-19.7	20	112	0
IS1_Perylene-d12	1	1	-	0	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.032	-	-5	20	111	0
Dibenzo(a,h)anthracene	0.935	1.031	-	-10.3	20	113	0
Benzo(ghi)perylene	0.923	1.014	-	-9.9	20	115	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 11:00		
Lab File ID	: ADP0618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	-.05
n-Decane	1.53738	0.00766	-	99.5*	20	1	.01
IS3_Acenaphthene-d10	1	1	-	0	20	80	-.03
Atrazine	0.403	0.446	-	-10.7	20	91	-.03
IS3_Phenanthrene-d10	1	1	-	0	20	84	-.03
n-Octadecane	0.44	0.416	-	5.5	20	81	-.03
Parathion	0.121	0.135	-	-11.6	20	105	-.03
3,3'-Dimethylbenzidine	5	5.425	-	-8.5	20	110	-.04

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 08:51		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.095	1.178	-	-7.6	20	123	0
Acetophenone	1.981	1.957	-	1.2	20	110	0
m-Toluidine	1.685	1.987	-	-17.9	20	121	0
2-Chloroaniline	1.619	1.858	-	-14.8	20	125	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.33	0.249	-	24.5*	20	81	0
3-Chloroaniline	0.181	0.157	-	13.3	20	88	0
2,6-Dichlorophenol	0.3	0.365	-	-21.7*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.169	-	1.7	20	113	0
Caprolactam	0.176	0.132	-	25*	20	82	0
1,2,4,5-Tetrachlorobenzene	0.461	0.494	-	-7.2	20	119	0
Biphenyl	0.901	1.004	-	-11.4	20	119	0
IS2_Acenaphthene-d10	1	1	-	0	20	104	0
Dichloran	0.191	0.257	-	-34.6*	20	145	0
Pentachloronitrobenzene	0.232	0.277	-	-19.4	20	135	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.451	0.549	-	-21.7*	20	127	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.654	-	17.1	20	83	0
Pyridine	1.181	1.111	-	5.9	20	84	0
2-Fluorophenol	1.131	1.074	-	5	20	94	0
Aniline	1.89	1.624	-	14.1	20	85	0
2-Chlorophenol	1.23	1.217	-	1.1	20	94	0
Phenol-d6	1.461	1.445	-	1.1	20	95	0
Phenol	1.557	1.418	-	8.9	20	88	0
Bis(2-chloroethyl)ether	1.229	0.961	-	21.8*	20	75	0
1,3-Dichlorobenzene	1.423	1.427	-	-0.3	20	99	0
1,4-Dichlorobenzene	1.486	1.457	-	2	20	101	0
1,2-Dichlorobenzene	1.357	1.361	-	-0.3	20	99	0
Benzyl alcohol	1.189	0.955	-	19.7	20	76	0
Bis(2-chloroisopropyl)ethe	1.817	0.879	-	51.6*	20	47	0
2-Methylphenol	1.108	1.022	-	7.8	20	91	0
Hexachloroethane	0.606	0.528	-	12.9	20	83	0
n-Nitrosodi-n-propylamine	1.034	0.725	-	29.9*	20	66	0
3-Methylphenol/4-Methylphe	1.204	1.165	-	3.2	20	94	0
Nitrobenzene-d5	1.564	1.2	-	23.3*	20	73	0
Nitrobenzene	1.505	1.175	-	21.9*	20	73	0
Isophorone	2.67	1.979	-	25.9*	20	70	0
2-Nitrophenol	0.622	0.687	-	-10.5	20	108	0
2,4-Dimethylphenol	1.261	1.006	-	20.2*	20	76	0
Bis(2-chloroethoxy)methane	1.675	1.255	-	25.1*	20	74	0
2,4-Dichlorophenol	1.149	1.144	-	0.4	20	94	0
1,2,4-Trichlorobenzene	1.404	1.352	-	3.7	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.066	1.028	-	3.6	20	94	0
Benzoic Acid	5	4.785	-	4.3	20	96	0
4-Chloroaniline	0.16	0.117	-	26.9*	20	69	0
Hexachlorobutadiene	0.275	0.251	-	8.7	20	90	0
p-Chloro-m-cresol	0.327	0.286	-	12.5	20	81	0
2-Methylnaphthalene	0.711	0.709	-	0.3	20	95	0
1-Methylnaphthalene	0.297	0.254	-	14.5	20	84	0
Hexachlorocyclopentadiene	0.273	0.307	-	-12.5	20	106	0
2,4,6-Trichlorophenol	0.266	0.286	-	-7.5	20	97	0
2,4,5-Trichlorophenol	0.289	0.297	-	-2.8	20	93	0
2-Fluorobiphenyl	0.928	0.863	-	7	20	90	0
2-Chloronaphthalene	0.743	0.695	-	6.5	20	89	0
2-Nitroaniline	0.215	0.229	-	-6.5	20	99	0
1,4-Dinitrobenzene	0.114	0.121	-	-6.1	20	95	0
1,3-Dinitrobenzene	0.13	0.133	-	-2.3	20	92	0
Dimethyl phthalate	0.982	0.886	-	9.8	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.117	-	3.3	20	91	0
2,6-Dinitrotoluene	0.197	0.195	-	1	20	91	0
1,2-Dinitrobenzene	0.078	0.081	-	-3.8	20	94	0
IS1_Acenaphthene-d10	1	1	-	0	20	83	0
3-Nitroaniline	0.293	0.325	-	-10.9	20	97	0
Acenaphthene	0.991	1.01	-	-1.9	20	91	0
2,4-Dinitrophenol	5	6.319	-	-26.4*	20	122	0
Dibenzofuran	1.734	1.636	-	5.7	20	88	0
2,4-Dinitrotoluene	0.398	0.415	-	-4.3	20	87	0
4-Nitrophenol	0.314	0.269	-	14.3	20	70	0
2,3,5,6-Tetrachlorophenol	0.353	0.441	-	-24.9*	20	101	0
2,3,4,6-Tetrachlorophenol	0.346	0.407	-	-17.6	20	98	0
Diethyl phthalate	1.443	1.357	-	6	20	81	0
Fluorene	1.363	1.316	-	3.4	20	88	0
4-Chlorophenyl phenyl ethe	0.717	0.684	-	4.6	20	88	0
4-Nitroaniline	0.287	0.321	-	-11.8	20	93	0
4,6-Dinitro-o-cresol	0.224	0.292	-	-30.4*	20	110	0
NDPA/DPA	1.122	1.108	-	1.2	20	87	0
Azobenzene	1.43	0.985	-	31.1*	20	62	0
2,4,6-Tribromophenol	0.213	0.254	-	-19.2	20	102	0
4-Bromophenyl phenyl ether	0.427	0.413	-	3.3	20	87	0
Hexachlorobenzene	0.494	0.51	-	-3.2	20	96	0
Pentachlorophenol	0.288	0.358	-	-24.3*	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	80	0
Phenanthrene	0.988	0.949	-	3.9	20	86	0
Anthracene	0.977	0.974	-	0.3	20	87	0
Carbazole	0.894	0.926	-	-3.6	20	88	0
Di-n-butylphthalate	1.089	1.139	-	-4.6	20	87	0
Fluoranthene	1.131	1.143	-	-1.1	20	87	0
Benzidine	0.648	0.789	-	-21.8*	20	96	0
Pyrene	1.194	1.242	-	-4	20	91	0
4-Terphenyl-d14	0.861	0.863	-	-0.2	20	88	0
Butyl benzyl phthalate	0.463	0.532	-	-14.9	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	86	0
Benzo(a)anthracene	1.294	1.327	-	-2.6	20	95	0
3,3'-Dichlorobenzidine	0.446	0.513	-	-15	20	103	0
Chrysene	1.277	1.231	-	3.6	20	92	0
Bis(2-ethylhexyl)phthalate	0.767	0.874	-	-14	20	102	0
Di-n-octylphthalate	1.257	1.571	-	-25*	20	111	0
Benzo(b)fluoranthene	1.181	1.383	-	-17.1	20	102	0
Benzo(k)fluoranthene	1.154	1.236	-	-7.1	20	103	0
Benzo(a)pyrene	1.058	1.292	-	-22.1*	20	112	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.12	-	-13.9	20	124	0
Dibenzo(a,h)anthracene	0.935	1.098	-	-17.4	20	124	0
Benzo(ghi)perylene	0.923	1.056	-	-14.4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:39		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Decane	1.537	0.919	-	40.2*	20	67	0
IS3_Acenaphthene-d10	1	1	-	0	20	105	0
Atrazine	0.403	0.422	-	-4.7	20	113	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.44	0.285	-	35.2*	20	65	0
Parathion	0.121	0.122	-	-0.8	20	111	0
3,3'-Dimethylbenzidine	5	5.199	-	-4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	111	0
n-Nitrosodimethylamine	0.704	0.761	-	-8.1	20	122	0
Pyridine	1.199	1.157	-	3.5	20	111	0
2-Fluorophenol	1.069	1.075	-	-0.6	20	115	0
Aniline	1.713	1.697	-	0.9	20	115	0
2-Chlorophenol	1.178	1.204	-	-2.2	20	118	0
Phenol-d6	1.322	1.361	-	-3	20	119	0
Phenol	1.438	1.482	-	-3.1	20	121	0
Bis(2-chloroethyl)ether	1.185	1.206	-	-1.8	20	122	0
1,3-Dichlorobenzene	1.452	1.439	-	0.9	20	117	0
1,4-Dichlorobenzene	1.478	1.473	-	0.3	20	118	0
1,2-Dichlorobenzene	1.426	1.404	-	1.5	20	116	0
Benzyl alcohol	1	0.976	-	2.4	20	114	0
Bis(2-chloroisopropyl)ethe	1.623	1.719	-	-5.9	20	127	0
2-Methylphenol	1.031	1.029	-	0.2	20	115	0
Hexachloroethane	0.545	0.566	-	-3.9	20	121	0
n-Nitrosodi-n-propylamine	0.879	0.857	-	2.5	20	114	0
3-Methylphenol/4-Methylphe	1.084	1.102	-	-1.7	20	113	0
Nitrobenzene-d5	1.165	1.28	-	-9.9	20	123	0
Nitrobenzene	1.197	1.314	-	-9.8	20	123	0
Isophorone	2.31	2.22	-	3.9	20	109	0
2-Nitrophenol	0.533	0.571	-	-7.1	20	127	0
2,4-Dimethylphenol	1.088	0.953	-	12.4	20	100	0
Bis(2-chloroethoxy)methane	1.508	1.515	-	-0.5	20	119	0
2,4-Dichlorophenol	1.094	1.117	-	-2.1	20	113	0
1,2,4-Trichlorobenzene	1.318	1.27	-	3.6	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.996	0.972	-	2.4	20	118	0
Benzoic Acid	5	5.412	-	-8.2	20	134	0
4-Chloroaniline	0.126	0.125	-	0.8	20	118	0
Hexachlorobutadiene	0.211	0.204	-	3.3	20	117	0
p-Chloro-m-cresol	0.272	0.264	-	2.9	20	108	0
2-Methylnaphthalene	0.688	0.66	-	4.1	20	113	0
1-Methylnaphthalene	0.235	0.234	-	0.4	20	119	0
Hexachlorocyclopentadiene	0.205	0.206	-	-0.5	20	118	0
2,4,6-Trichlorophenol	0.237	0.229	-	3.4	20	106	0
2,4,5-Trichlorophenol	0.251	0.246	-	2	20	108	0
2-Fluorobiphenyl	0.866	0.791	-	8.7	20	108	0
2-Chloronaphthalene	0.715	0.662	-	7.4	20	110	0
2-Nitroaniline	0.173	0.179	-	-3.5	20	115	0
1,4-Dinitrobenzene	0.087	0.094	-	-8	20	139	0
1,3-Dinitrobenzene	0.109	0.109	-	0	20	124	0
Dimethyl phthalate	0.839	0.773	-	7.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.027	-	4.8	20	110	0
2,6-Dinitrotoluene	0.153	0.157	-	-2.6	20	111	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	113	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.259	0.296	-	-14.3	20	119	0
Acenaphthene	1.081	1.042	-	3.6	20	110	0
2,4-Dinitrophenol	5	5.367	-	-7.3	20	138	0
Dibenzofuran	1.757	1.703	-	3.1	20	109	0
2,4-Dinitrotoluene	5	4.815	-	3.7	20	117	0
4-Nitrophenol	0.221	0.248	-	-12.2	20	123	0
2,3,5,6-Tetrachlorophenol	0.318	0.334	-	-5	20	107	0
2,3,4,6-Tetrachlorophenol	0.314	0.321	-	-2.2	20	103	0
Diethyl phthalate	1.301	1.236	-	5	20	106	0
Fluorene	1.328	1.29	-	2.9	20	108	0
4-Chlorophenyl phenyl ethe	0.672	0.643	-	4.3	20	108	0
4-Nitroaniline	0.262	0.282	-	-7.6	20	116	0
4,6-Dinitro-o-cresol	5	4.762	-	4.8	20	128	0
NDPA/DPA	1.131	1.107	-	2.1	20	108	0
Azobenzene	1.259	1.261	-	-0.2	20	108	0
2,4,6-Tribromophenol	0.171	0.154	-	9.9	20	90	0
4-Bromophenyl phenyl ether	0.376	0.328	-	12.8	20	98	0
Hexachlorobenzene	0.431	0.355	-	17.6	20	94	0
Pentachlorophenol	0.252	0.231	-	8.3	20	100	0
IS1_Phenanthrene-d10	1	1	-	0	20	98	0
Phenanthrene	1.038	1.02	-	1.7	20	106	0
Anthracene	1.03	1.032	-	-0.2	20	108	0
Carbazole	0.928	0.916	-	1.3	20	102	0
Di-n-butylphthalate	1.088	1.002	-	7.9	20	94	0
Fluoranthene	1.186	1.154	-	2.7	20	104	0
Benzidine	0.721	0.624	-	13.5	20	91	0
Pyrene	1.269	1.255	-	1.1	20	106	0
4-Terphenyl-d14	0.875	0.778	-	11.1	20	96	0
Butyl benzyl phthalate	5	4.039	-	19.2	20	95	0
IS1_Chrysene-d12	1	1	-	0	20	90	0
Benzo(a)anthracene	1.335	1.296	-	2.9	20	96	0
3,3'-Dichlorobenzidine	0.43	0.429	-	0.2	20	89	0
Chrysene	1.276	1.295	-	-1.5	20	100	0
Bis(2-ethylhexyl)phthalate	5	4.4	-	12	20	92	0
Di-n-octylphthalate	5	4.131	-	17.4	20	89	0
Benzo(b)fluoranthene	1.178	1.166	-	1	20	95	0
Benzo(k)fluoranthene	1.154	1.101	-	4.6	20	90	0
Benzo(a)pyrene	1.025	1.044	-	-1.9	20	96	0
IS1_Perylene-d12	1	1	-	0	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.017	-	-6.8	20	95	0
Dibenzo(a,h)anthracene	0.953	1.049	-	-10.1	20	90	0
Benzo(ghi)perylene	0.928	0.993	-	-7	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:32		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
Benzaldehyde	1.024	1.156	-	-12.9	20	141	0
Acetophenone	1.77	1.995	-	-12.7	20	137	0
m-Toluidine	1.599	1.951	-	-22*	20	140	0
2-Chloroaniline	1.546	1.774	-	-14.7	20	138	0
IS2_Naphthalene-d8	1	1	-	0	20	111	0
a-Terpineol	0.276	0.329	-	-19.2	20	142	0
3-Chloroaniline	0.147	0.182	-	-23.8*	20	146	0
2,6-Dichlorophenol	0.29	0.356	-	-22.8*	20	141	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	156	0
Caprolactam	0.149	0.177	-	-18.8	20	139	0
1,2,4,5-Tetrachlorobenzene	0.402	0.434	-	-8	20	131	0
Biphenyl	0.929	1.025	-	-10.3	20	134	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	6.082	-	-21.6*	20	166	0
Pentachloronitrobenzene	5	5.875	-	-17.5	20	148	0
IS2_Phenanthrene-d10	1	1	-	0	20	107	0
Diphenamid	0.445	0.475	-	-6.7	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:58		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
n-Decane	1.447	1.366	-	5.6	20	115	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.347	0.339	-	2.3	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	106	0
n-Octadecane	0.393	0.365	-	7.1	20	97	0
Parathion	5	4.557	-	8.9	20	107	0
3,3'-Dimethylbenzidine	0.696	0.553	-	20.5*	20	88	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240618RVT\
Data File : AP90618.D
Acq On : 18 Jun 2024 10:12 am
Operator : SV106:als
Sample : WG1935854-4,32,,AP9 10770 gmr0616A
Misc : WG1935854,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 18 10:51:18 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 10:51:42 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
28	T	Benzaldehyde	1.095	1.280	-16.9	151	0.00
29	T	Acetophenone	1.981	2.198	-11.0	140	0.00
30	T	m-Toluidine	1.685	2.112	-25.3#	144	0.00
31	T	2-Chloroaniline	1.619	1.864	-15.1	141	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	113	0.00
55	T	a-Terpineol	0.330	0.386	-17.0	141	0.00
56	T	3-Chloroaniline	0.181	0.207	-14.4	130	0.00
57	T	2,6-Dichlorophenol	0.300	0.371	-23.7#	151	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.194	-12.8	144	0.00
59	T	Caprolactam	0.176	0.204	-15.9	142	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.480	-4.1	129	0.00
61	T	Biphenyl	0.901	0.986	-9.4	131	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	111	0.00
83	T	Dichloran	0.191	0.250	-30.9#	149	0.00
84	T	Pentachloronitrobenzene	0.232	0.295	-27.2#	152	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	109	0.00
98	T	Diphenamid	0.451	0.587	-30.2#	145	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : AP90618.D
Acq On : 18 Jun 2024 10:12 am
Operator : SV106:als
Sample : WG1935854-4,32,,AP9 10770 gmr0616A
Misc : WG1935854,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 18 10:51:18 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 10:51:42 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.895	152	68372	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	6.637	136	247905	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	8.425	164	155729	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	9.819	188	339468M3	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	3.760	105	109395	5.843	ug/ml		98
29) Acetophenone	5.613	105	187890	5.548	ug/ml	#	83
30) m-Toluidine	5.748	106	180544	6.269	ug/ml		96
31) 2-Chloroaniline	6.201	127	159275	5.755	ug/ml		97
55) a-Terpineol	6.766	59	119762	5.849	ug/ml	#	83
56) 3-Chloroaniline	6.772	65	64130	5.712	ug/ml		74
57) 2,6-Dichlorophenol	6.789	162	115080	6.195	ug/ml		92
58) 1-chloro-2-nitrobenzene	7.066	111	60036	5.643	ug/ml	#	1
59) Caprolactam	7.125	55	63367	5.810	ug/ml	#	69
60) 1,2,4,5-Tetrachloroben...	7.595	216	148885	5.216	ug/ml		98
61) Biphenyl	7.907	154	305624	5.472	ug/ml		97
83) Dichloran	9.554	206	48735	6.540	ug/ml	#	78
84) Pentachloronitrobenzene	9.689	237	57455	6.357	ug/ml	#	79
98) Diphenamid	10.760	167	249286	6.508	ug/ml		82

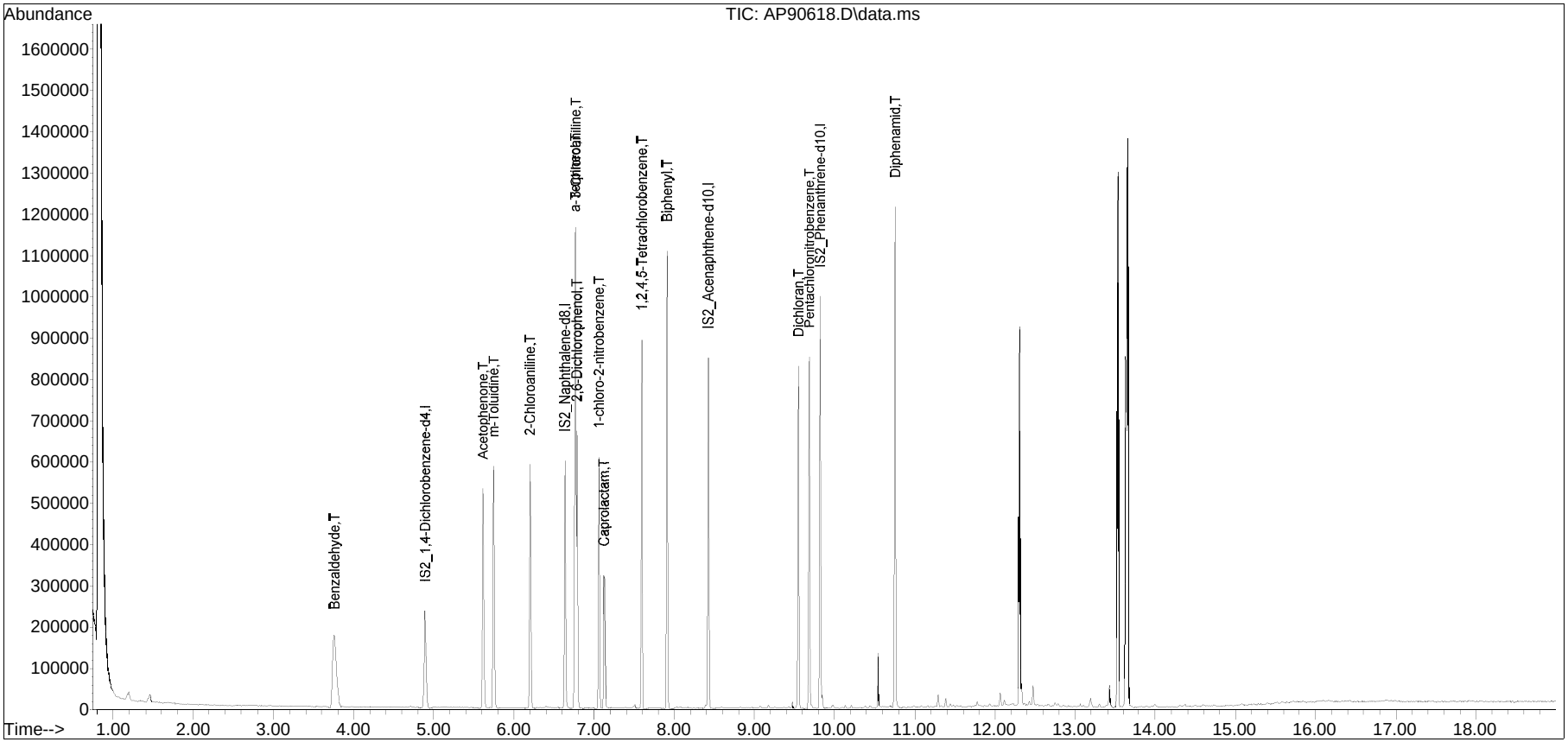
(#) = qualifier out of range (m) = manual integration (+) = signals summed

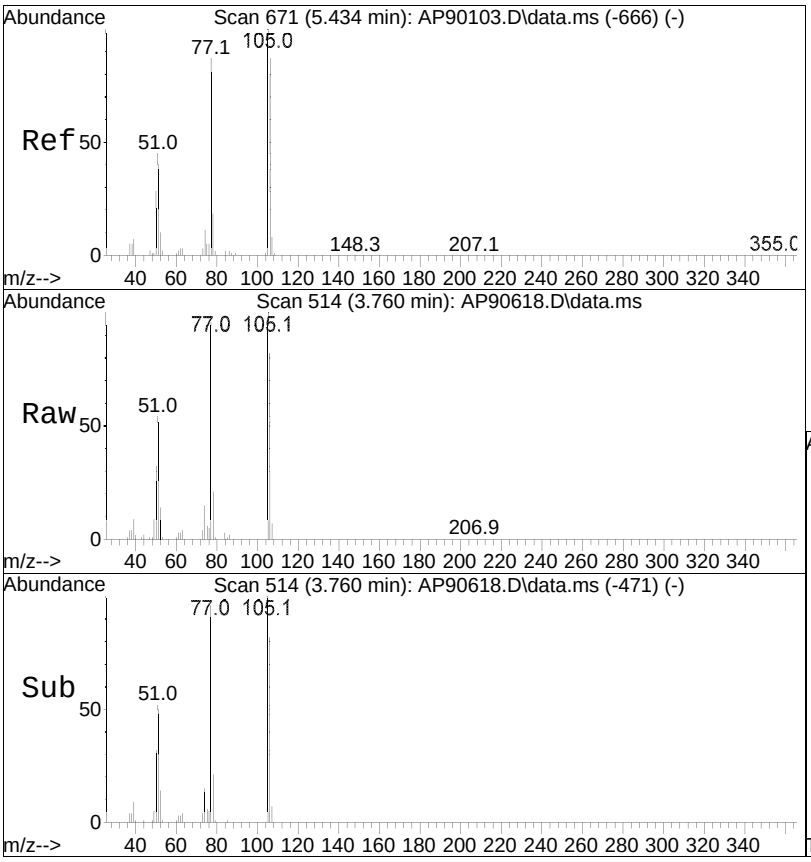
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : AP90618.D
Acq On : 18 Jun 2024 10:12 am
Operator : SV106:als
Sample : WG1935854-4,32,,AP9 10770 gmr0616A
Misc : WG1935854,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 18 10:51:18 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 10:51:42 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

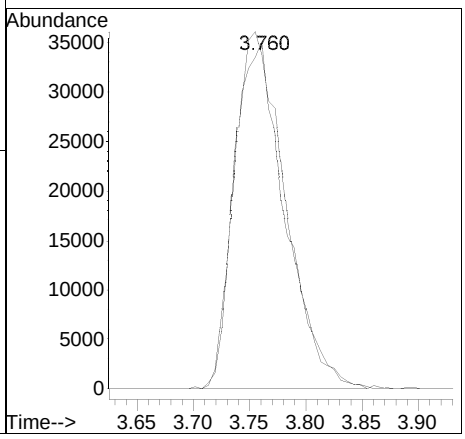


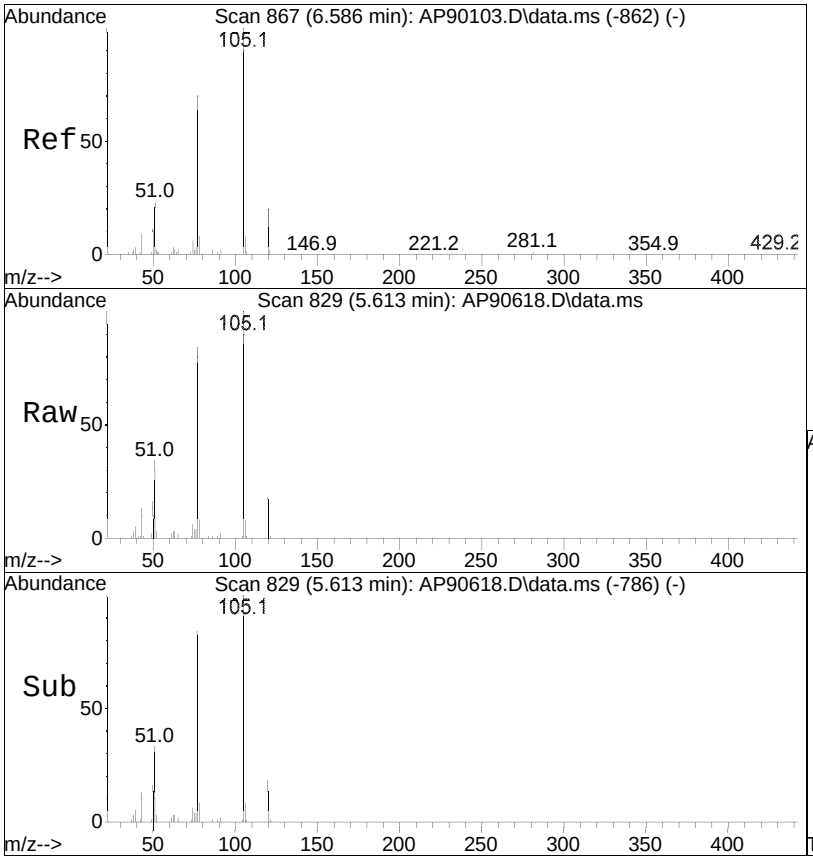


#28
Benzaldehyde
Concen: 5.84 ug/ml
RT: 3.760 min Scan# 514
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:105 Resp: 109395

Ion	Ratio	Lower	Upper
105	100		
77	104.6	82.2	123.4

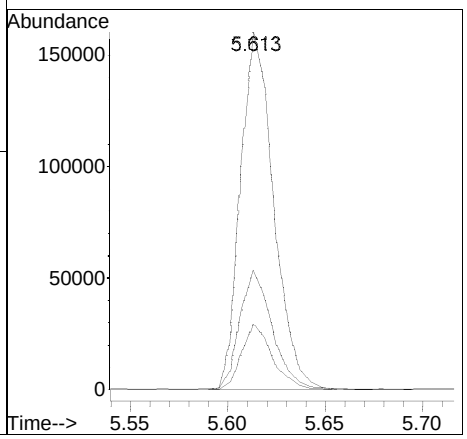


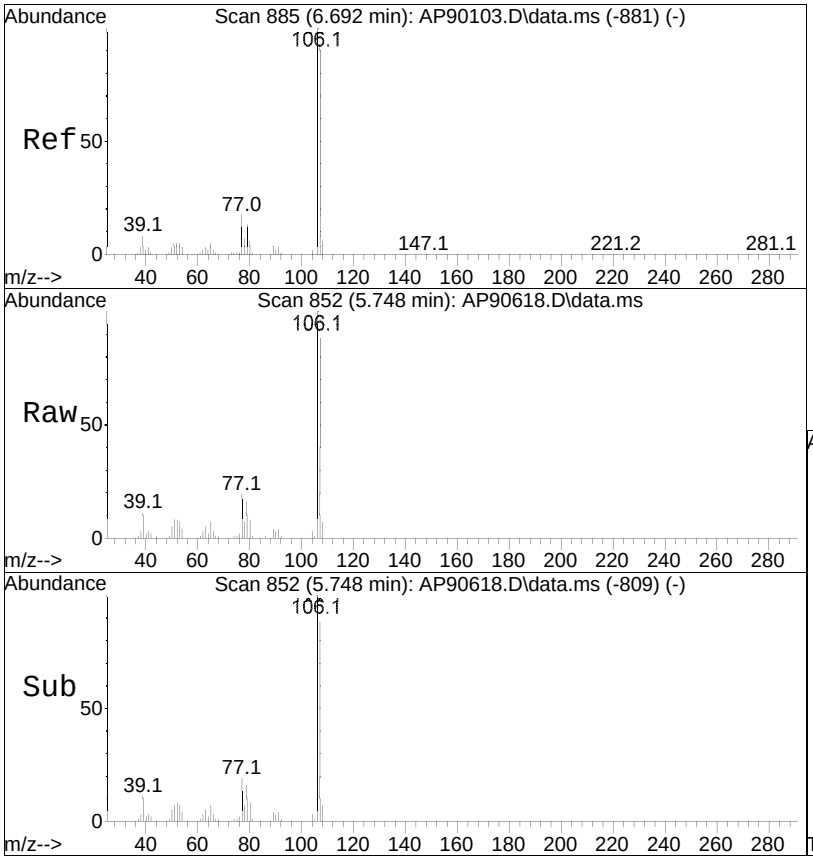


#29
Acetophenone
Concen: 5.55 ug/ml
RT: 5.613 min Scan# 829
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:105 Resp: 187890

Ion	Ratio	Lower	Upper
105	100		
120	17.2	20.5	30.7#
51	32.7	34.9	52.3#

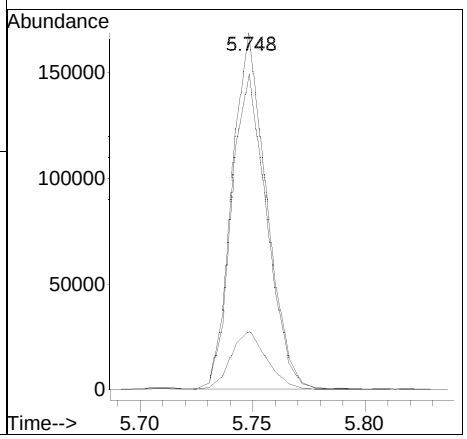


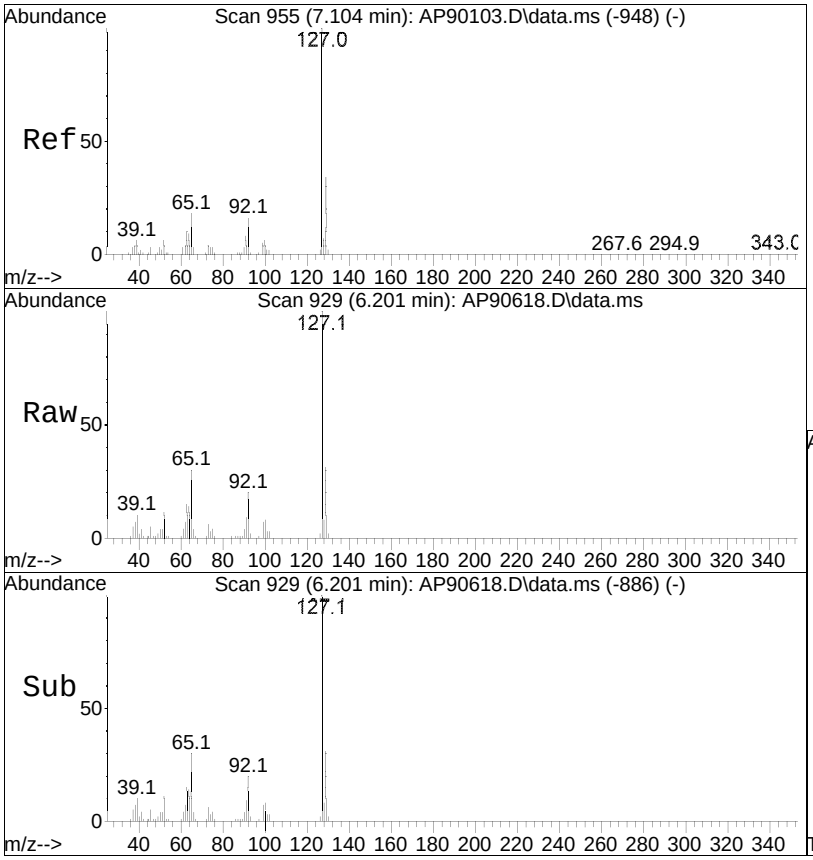


#30
m-Toluidine
Concen: 6.27 ug/ml
RT: 5.748 min Scan# 852
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:106 Resp: 180544

Ion	Ratio	Lower	Upper
106	100		
107	90.6	75.7	113.5
79	16.9	11.8	17.8

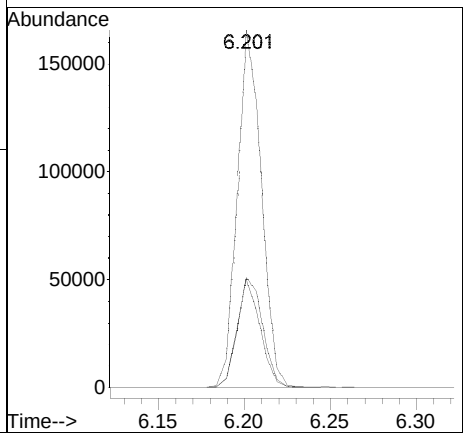


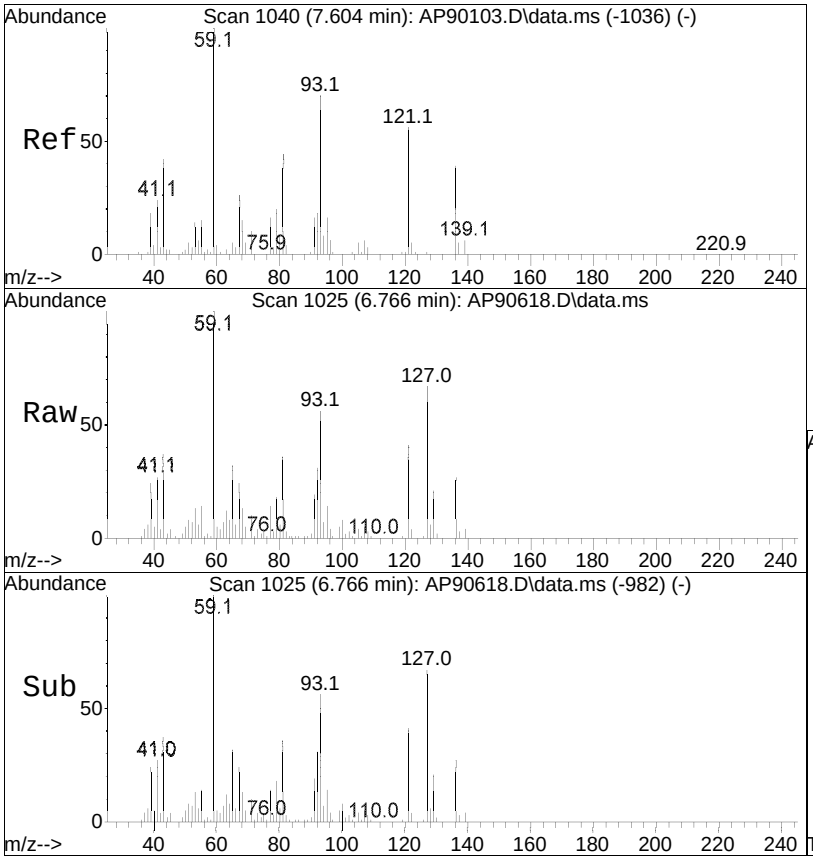


#31
2-Chloroaniline
Concen: 5.76 ug/ml
RT: 6.201 min Scan# 929
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:127 Resp: 159275

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	29.5	26.3	39.5

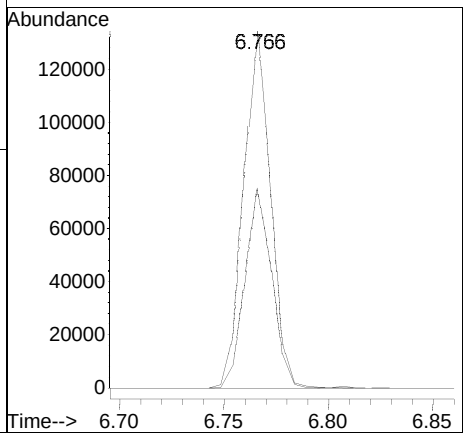


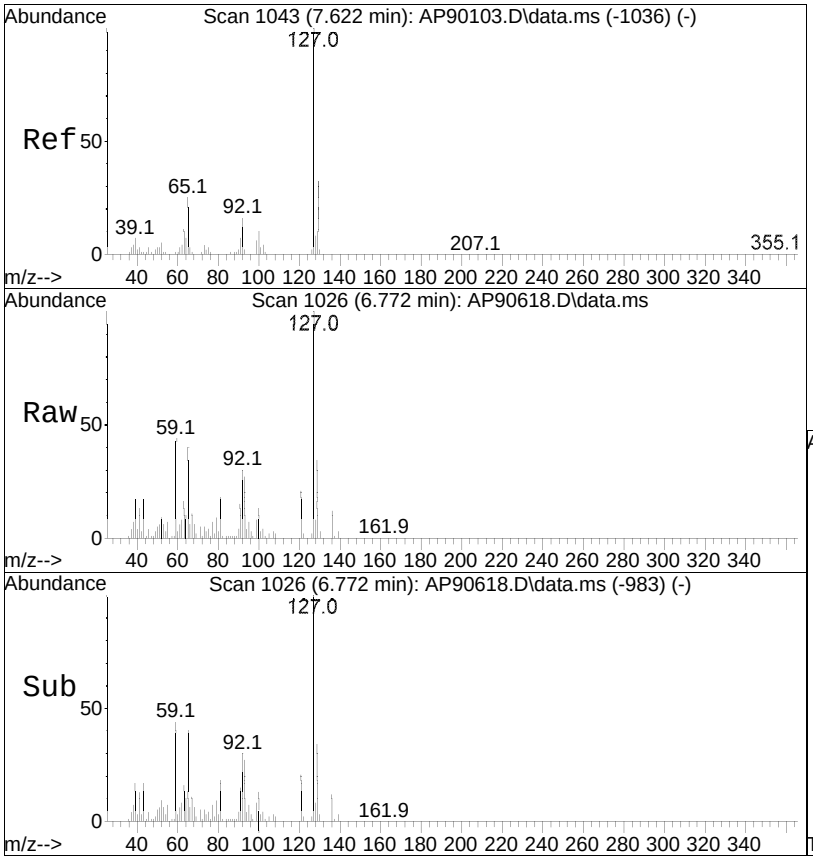


#55
a-Terpineol
Concen: 5.85 ug/ml
RT: 6.766 min Scan# 1025
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion: 59 Resp: 119762

Ion	Ratio	Lower	Upper
59	100		
93	55.7	35.6	53.4#

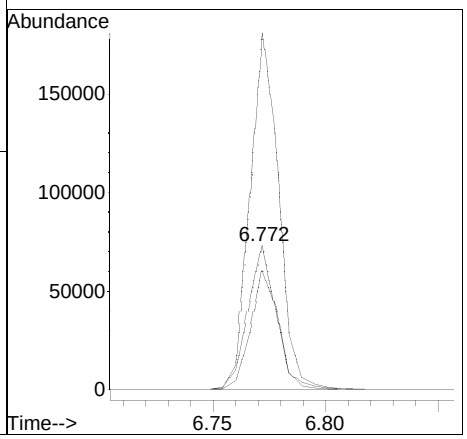


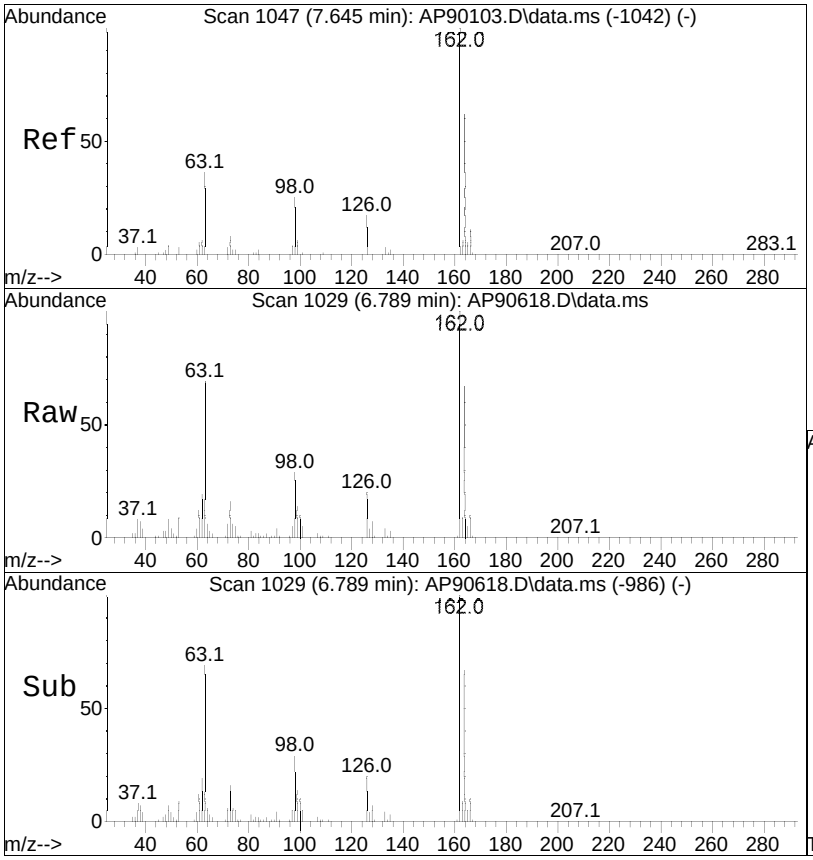


#56
3-Chloroaniline
Concen: 5.71 ug/ml
RT: 6.772 min Scan# 1026
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion: 65 Resp: 64130

Ion	Ratio	Lower	Upper
65	100		
127	247.7	243.2	364.8
129	80.7	78.8	118.2

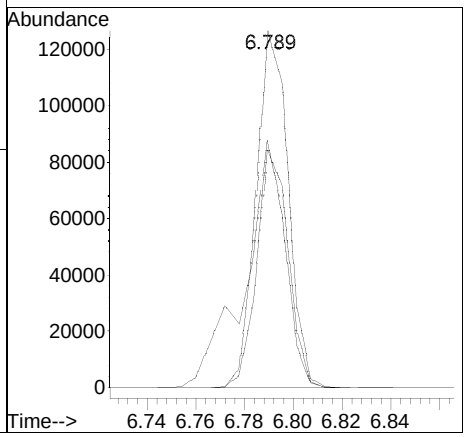


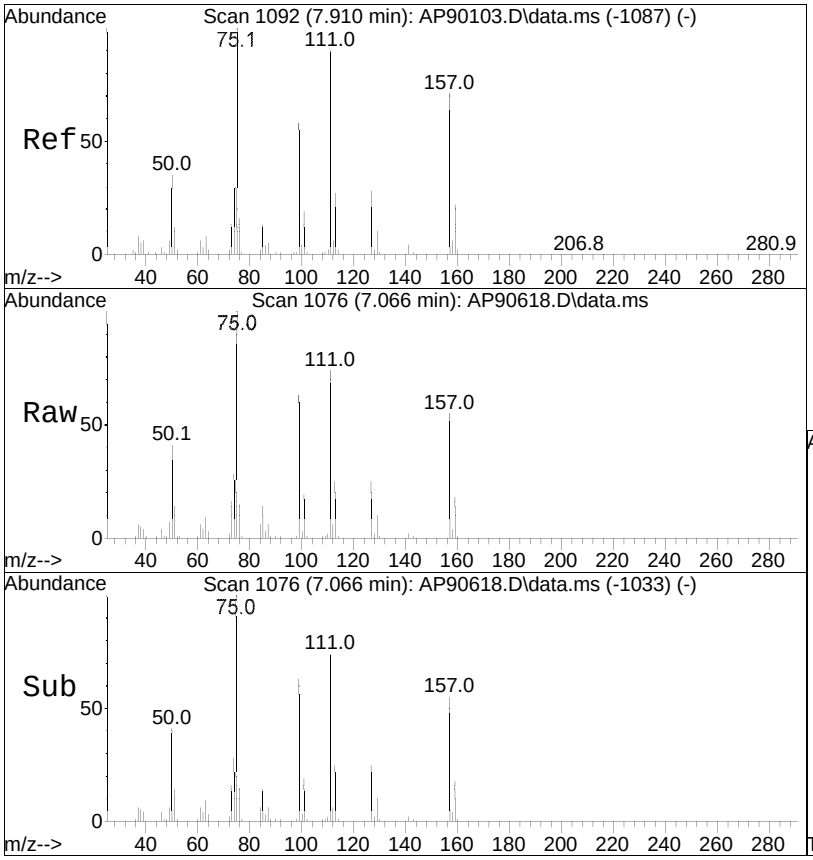


#57
2,6-Dichlorophenol
Concen: 6.20 ug/ml
RT: 6.789 min Scan# 1029
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:162 Resp: 115080

Ion	Ratio	Lower	Upper
162	100		
164	65.6	51.1	76.7
63	87.6	60.8	91.2

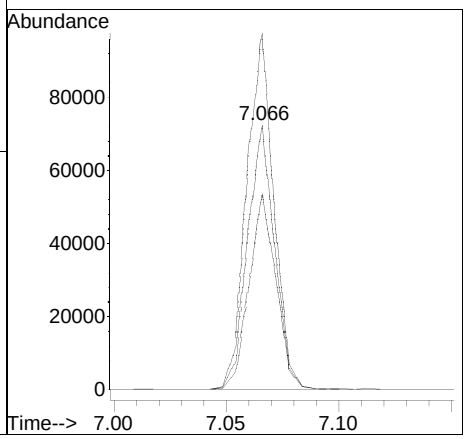


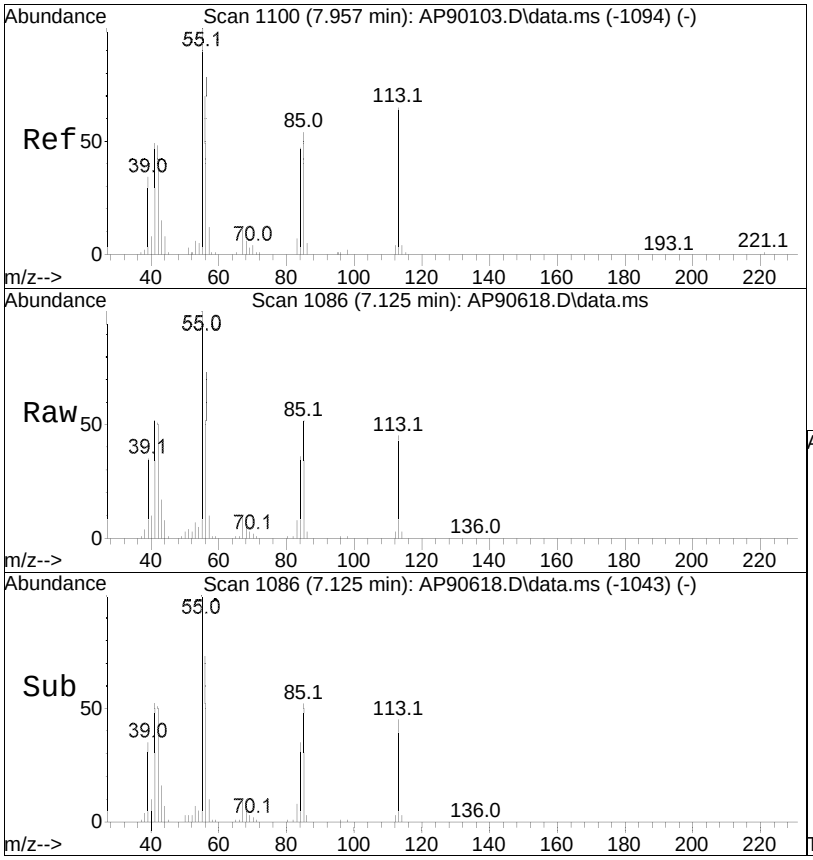


#58
1-chloro-2-nitrobenzene
Concen: 5.64 ug/ml
RT: 7.066 min Scan# 1076
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:111 Resp: 60036

Ion	Ratio	Lower	Upper
111	100		
157	73.5	0.0	0.0#
75	134.7	28.2	42.2#

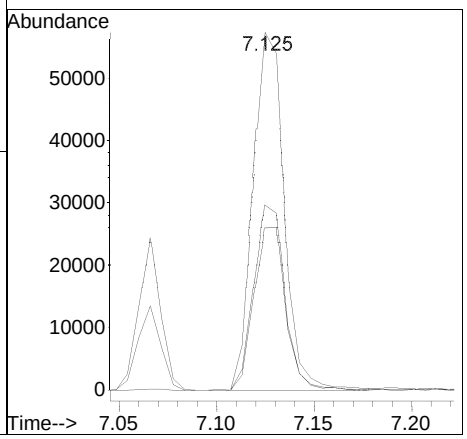


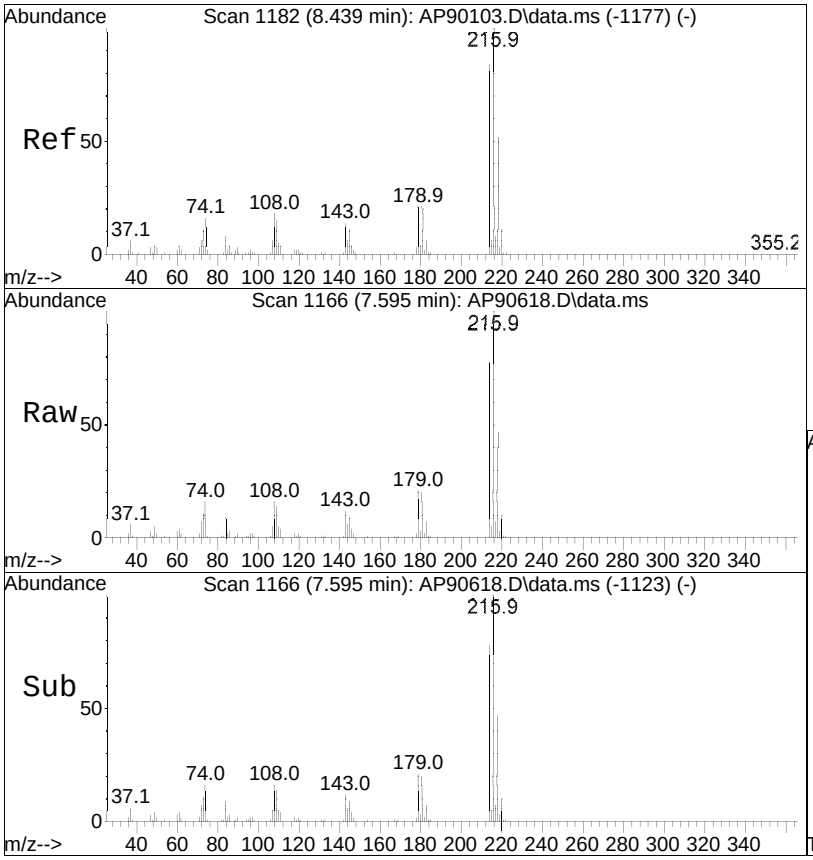


#59
Caprolactam
Concen: 5.81 ug/ml
RT: 7.125 min Scan# 1086
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion: 55 Resp: 63367

Ion	Ratio	Lower	Upper
55	100		
85	51.8	19.8	29.6#
113	46.6	29.6	44.4#

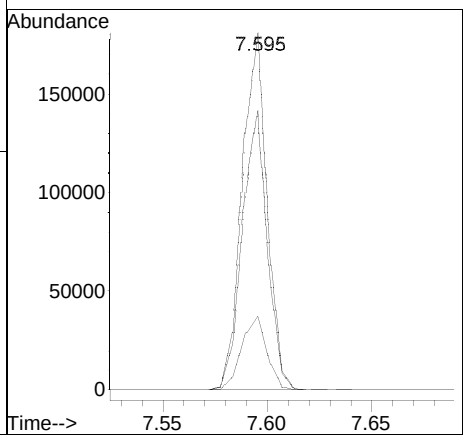


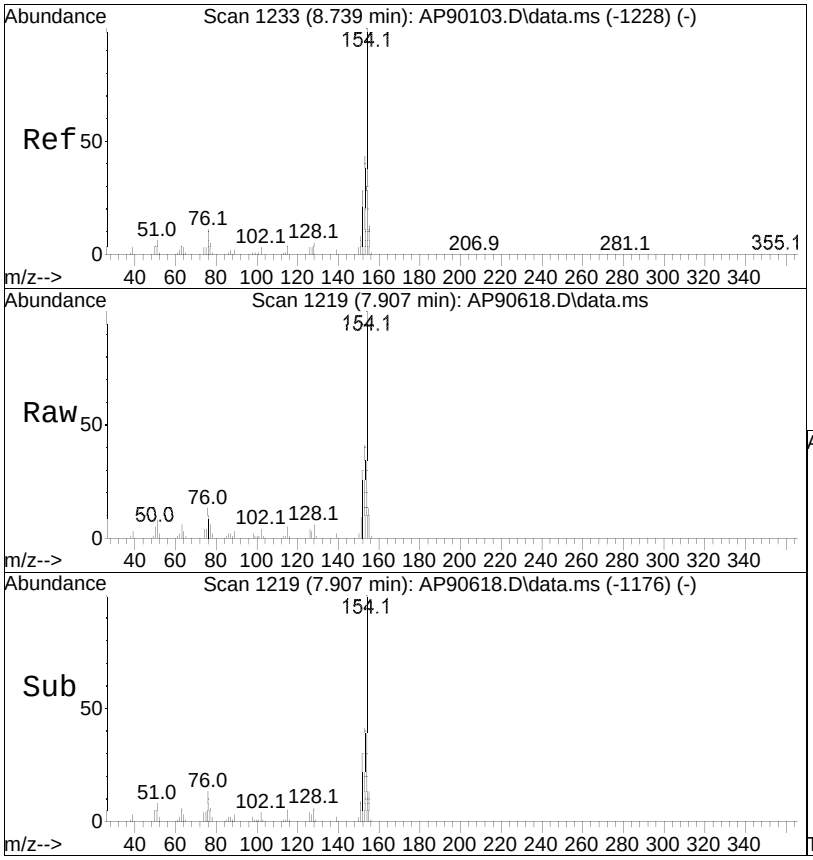


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.22 ug/ml
RT: 7.595 min Scan# 1166
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:216 Resp: 148885

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	21.0	19.0	28.6

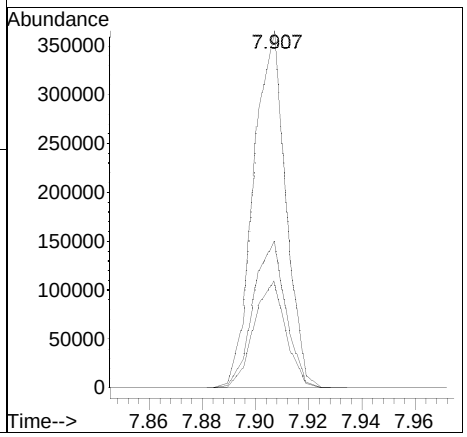


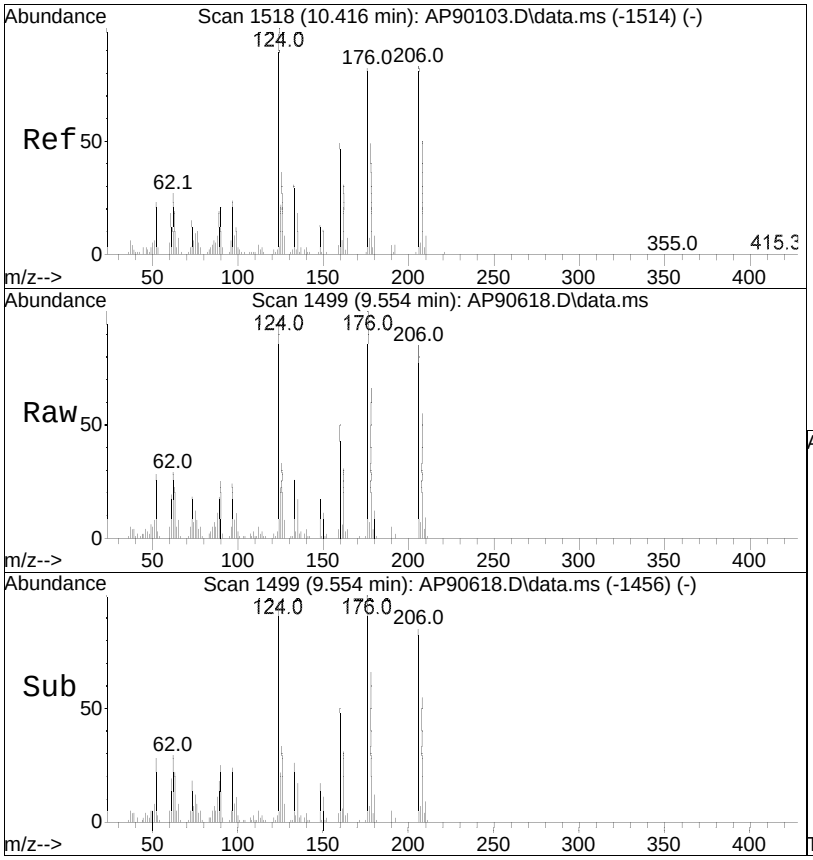


#61
Biphenyl
Concen: 5.47 ug/ml
RT: 7.907 min Scan# 1219
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:154 Resp: 305624

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	29.9	22.5	33.7

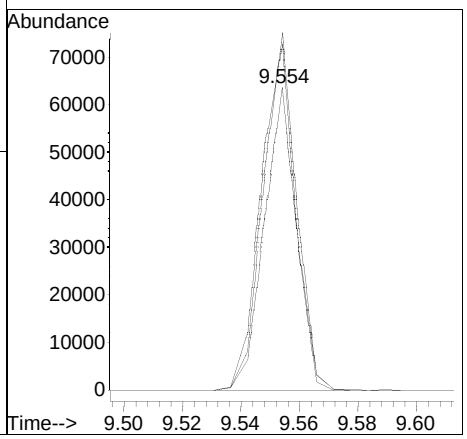


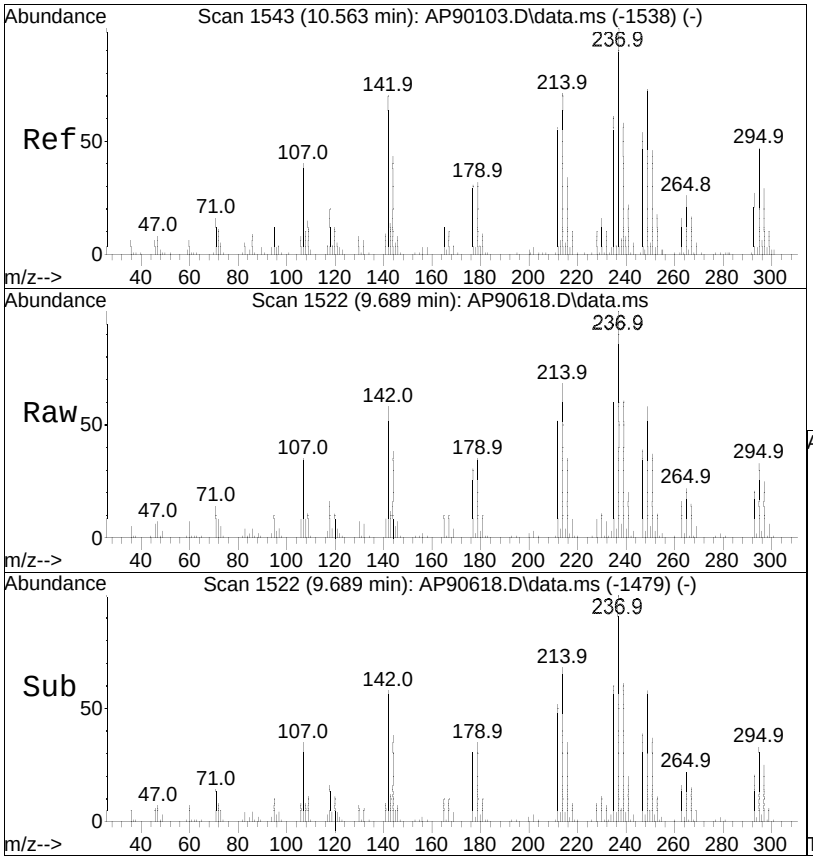


#83
Dichloran
Concen: 6.54 ug/ml
RT: 9.554 min Scan# 1499
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:206 Resp: 48735

Ion	Ratio	Lower	Upper
206	100		
176	120.3	104.6	157.0
124	119.9	130.5	195.7#

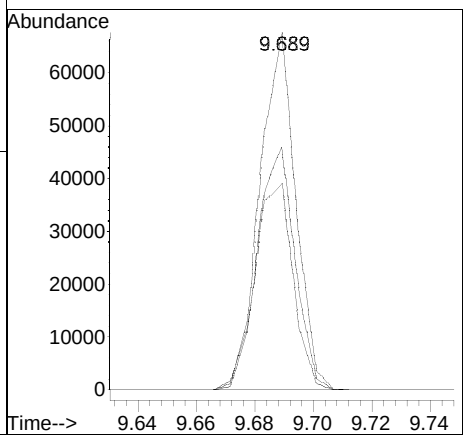


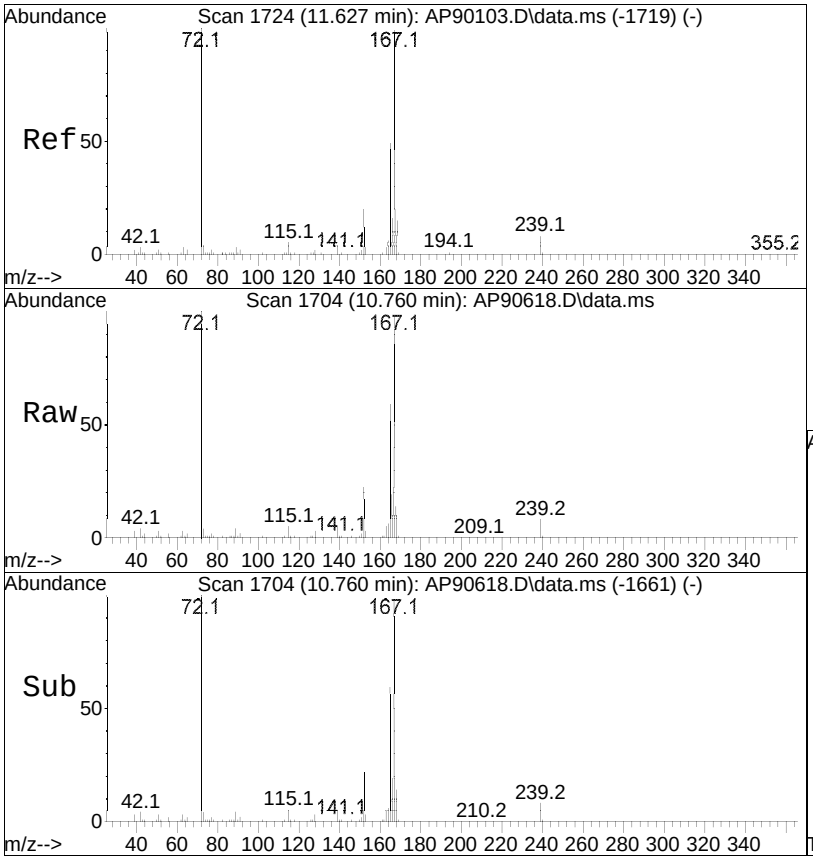


#84
Pentachloronitrobenzene
Concen: 6.36 ug/ml
RT: 9.689 min Scan# 1522
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:237 Resp: 57455

Ion	Ratio	Lower	Upper
237	100		
142	62.3	77.0	115.4#
214	71.2	58.2	87.4

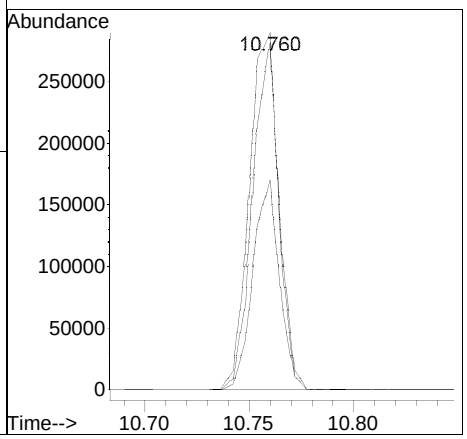




#98
Diphenamid
Concen: 6.51 ug/ml
RT: 10.760 min Scan# 1704
Delta R.T. 0.000 min
Lab File: AP90618.D
Acq: 18 Jun 2024 10:12 am

Tgt Ion:167 Resp: 249286

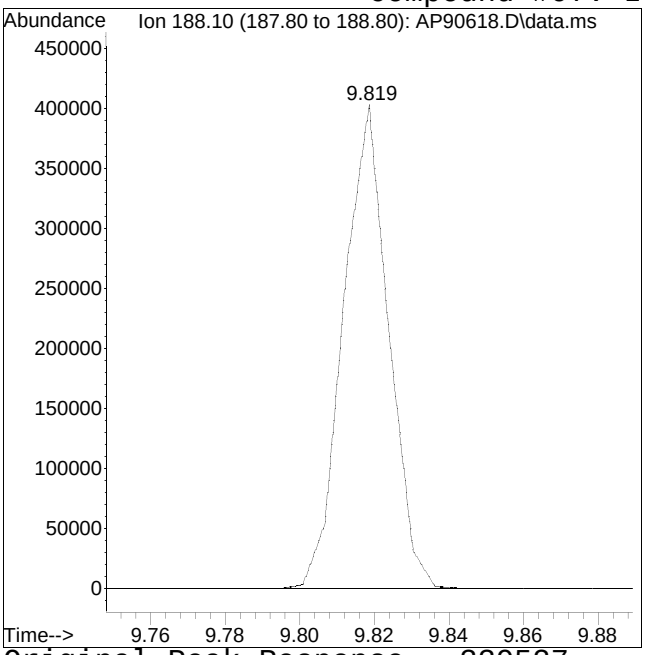
Ion	Ratio	Lower	Upper
167	100		
72	111.9	109.7	164.5
165	60.3	41.8	62.6

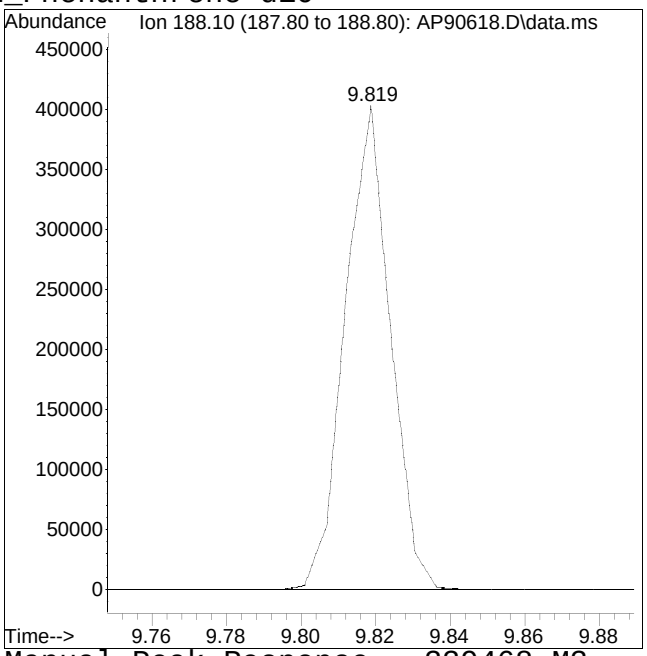


Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : AP90618.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:12 am Instrument : SV 106
Sample : WG1935854-4,32,,AP9 10770 Quant Date : 6/18/2024 10:51 am

Compound #97: IS2_Phenanthrene-d10





Original Peak Response = 339527 Manual Peak Response = 339468 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.789	0.857	-8.6	109	0.00
3	t	Pyridine		1.181	1.309	-10.8	99	0.00
4	S	2-Fluorophenol		1.131	1.206	-6.6	106	0.00
5	T	Aniline		1.890	1.831	3.1	95	0.00
6	t	2-Chlorophenol		1.230	1.339	-8.9	104	0.00
7	S	Phenol-d6		1.461	1.707	-16.8	112	0.00
8	T	Phenol		1.557	1.701	-9.2	105	0.00
9	T	Bis(2-chloroethyl)ether		1.229	1.236	-0.6	97	0.00
10	T	1,3-Dichlorobenzene		1.423	1.463	-2.8	101	0.00
11	T	1,4-Dichlorobenzene		1.486	1.464	1.5	101	0.00
12	T	1,2-Dichlorobenzene		1.357	1.425	-5.0	103	0.00
13	t	Benzyl alcohol		1.189	1.205	-1.3	96	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	1.648	9.3	88	0.00
15	T	2-Methylphenol		1.108	1.163	-5.0	103	0.00
16	T	Hexachloroethane		0.606	0.619	-2.1	98	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	0.988	4.4	90	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.250	-3.8	101	0.00
19	S	Nitrobenzene-d5		1.564	1.585	-1.3	97	0.00
20	T	Nitrobenzene		1.505	1.538	-2.2	95	0.00
21	T	Isophorone		2.670	2.610	2.2	93	0.00
22	T	2-Nitrophenol		0.622	0.713	-14.6	112	0.00
23	T	2,4-Dimethylphenol		1.261	1.057	16.2	80	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.647	1.7	97	0.00
25	T	2,4-Dichlorophenol		1.149	1.165	-1.4	96	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.372	2.3	97	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	91	0.00
35	T	Naphthalene		1.066	1.064	0.2	98	0.00
36	T	Benzoic Acid	*	5.000	5.473	-9.5	112	0.00
37	T	4-Chloroaniline		0.160	0.152	5.0	91	0.00
38	T	Hexachlorobutadiene		0.275	0.248	9.8	90	0.00
39	T	p-Chloro-m-cresol		0.327	0.334	-2.1	95	0.00
40	T	2-Methylnaphthalene		0.711	0.683	3.9	93	0.00
41	T	1-Methylnaphthalene		0.297	0.280	5.7	94	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.249	8.8	87	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.275	-3.4	94	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.294	-1.7	93	0.00
45	S	2-Fluorobiphenyl		0.928	0.851	8.3	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.691	7.0	90	0.00
47	T	2-Nitroaniline		0.215	0.239	-11.2	105	0.00
48	T	1,4-Dinitrobenzene		0.114	0.124	-8.8	99	0.00
49	T	1,3-Dinitrobenzene		0.130	0.139	-6.9	97	0.00
50	T	Dimethyl phthalate		0.982	0.915	6.8	88	0.00
51	T	Acenaphthylene		1.155	1.156	-0.1	96	0.00
52	T	2,6-Dinitrotoluene		0.197	0.204	-3.6	97	0.00
53	T	1,2-Dinitrobenzene		0.078	0.084	-7.7	99	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	82	0.00
63	T	3-Nitroaniline		0.293	0.349	-19.1	104	0.00
64	T	Acenaphthene		0.991	1.018	-2.7	91	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.198	-24.0#	119	0.00
66	T	Dibenzofuran		1.734	1.682	3.0	91	0.00
67	T	2,4-Dinitrotoluene		0.398	0.453	-13.8	94	0.00
68	T	4-Nitrophenol		0.314	0.379	-20.7#	98	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.425	-20.4	97	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.397	-14.7	96	0.00
71	T	Diethyl phthalate		1.443	1.502	-4.1	90	0.00
72	T	Fluorene		1.363	1.351	0.9	90	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.662	7.7	85	0.00
74	T	4-Nitroaniline		0.287	0.366	-27.5#	106	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.294	-31.2#	110	0.00
76	T	NDPA/DPA		1.122	1.140	-1.6	89	0.00
77	T	Azobenzene		1.430	1.343	6.1	84	0.00
78	S	2,4,6-Tribromophenol		0.213	0.230	-8.0	92	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.392	8.2	82	0.00
80	T	Hexachlorobenzene		0.494	0.457	7.5	86	0.00
81	T	Pentachlorophenol		0.288	0.341	-18.4	101	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
88	T	Phenanthrene		0.988	0.997	-0.9	89	0.00
89	T	Anthracene		0.977	1.002	-2.6	89	0.00
90	T	Carbazole		0.894	1.001	-12.0	94	0.00
91	T	Di-n-butylphthalate		1.089	1.256	-15.3	95	0.00
92	T	Fluoranthene		1.131	1.100	2.7	83	0.00
93	T	Benzidine		0.648	0.878	-35.5#	105	0.00
94	T	Pyrene		1.194	1.301	-9.0	93	0.00
95	S	4-Terphenyl-d14		0.861	0.871	-1.2	87	0.00

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.641	-38.4#	114	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	88	0.00
104	T	Benzo(a)anthracene	1.294	1.365	-5.5	100	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.536	-20.2	110	0.00
106	T	Chrysene	1.277	1.320	-3.4	100	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	0.982	-28.0#	117	0.00
108	T	Di-n-octylphthalate	1.257	1.742	-38.6#	126	0.00
109	T	Benzo(b)fluoranthene	1.181	1.436	-21.6#	108	0.00
110	T	Benzo(k)fluoranthene	1.154	1.170	-1.4	100	0.00
111	T	Benzo(a)pyrene	1.058	1.266	-19.7	112	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	96	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.032	-5.0	111	0.00
114	T	Dibenzo(a,h)anthracene	0.935	1.031	-10.3	113	0.00
115	T	Benzo(ghi)perylene	0.923	1.014	-9.9	115	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.884	152	59410	4.000	ug/ml		0.00
34) IS1_Naphthalene-d8	6.636	136	213276	4.000	ug/ml	#	0.00
62) IS1_Acenaphthene-d10	8.425	164	133811	4.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	9.819	188	278713	4.000	ug/ml	#	0.00
103) IS1_Chrysene-d12	12.307	240	273149	4.000	ug/ml		0.00
112) IS1_Perylene-d12	13.636	264	315272	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	1.984	112	89571	5.333	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 266.65%#				
7) Phenol-d6	4.437	99	126747	5.842	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 292.10%#				
19) Nitrobenzene-d5	5.790	82	117733	5.067	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 506.70%#				
45) 2-Fluorobiphenyl	7.825	172	226770	4.585	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 458.50%#				
78) 2,4,6-Tribromophenol	9.183	330	38406	5.395	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 269.75%#				
95) 4-Terphenyl-d14	11.389	244	303409	5.055	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 505.50%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	0.837	74	63630	5.431	ug/ml#		92
3) Pyridine	0.849	79	97218	5.544	ug/ml#		60
5) Aniline	4.178	93	135987	4.845	ug/ml		95
6) 2-Chlorophenol	4.460	128	99422	5.444	ug/ml		98
8) Phenol	4.466	94	126317	5.464	ug/ml#		80
9) Bis(2-chloroethyl)ether	4.513	93	91823	5.030	ug/ml		90
10) 1,3-Dichlorobenzene	4.754	146	108648	5.141	ug/ml		97
11) 1,4-Dichlorobenzene	4.919	146	108738	4.926	ug/ml		95
12) 1,2-Dichlorobenzene	5.166	146	105828	5.251	ug/ml		97
13) Benzyl alcohol	5.266	79	89507	5.069	ug/ml		95
14) Bis(2-chloroisopropyl)...	5.507	45	122361	4.535	ug/ml#		77
15) 2-Methylphenol	5.542	108	86356	5.249	ug/ml		98
16) Hexachloroethane	5.666	117	45933	5.103	ug/ml#		63
17) n-Nitrosodi-n-propylamine	5.690	70	73397	4.777	ug/ml#		91
18) 3-Methylphenol/4-Methy...	5.790	108	92804	5.190	ug/ml		99
20) Nitrobenzene	5.813	77	114201M6	5.109	ug/ml		
21) Isophorone	6.160	82	193849	4.888	ug/ml#		92
22) 2-Nitrophenol	6.231	139	52920	5.725	ug/ml#		91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	6.419	107	78496	4.192	ug/ml	94
24) Bis(2-chloroethoxy)met...	6.507	93	122318	4.916	ug/ml#	96
25) 2,4-Dichlorophenol	6.542	162	86491	5.067	ug/ml	96
26) 1,2,4-Trichlorobenzene	6.601	180	101869	4.886	ug/ml	98
35) Naphthalene	6.654	128	283578	4.987	ug/ml	100
36) Benzoic Acid	6.578	105	77211	5.473	ug/ml	99
37) 4-Chloroaniline	6.789	65	40405	4.739	ug/ml	99
38) Hexachlorobutadiene	6.866	225	65983	4.500	ug/ml	97
39) p-Chloro-m-cresol	7.384	107	88928	5.102	ug/ml	97
40) 2-Methylnaphthalene	7.413	142	182170	4.809	ug/ml#	91
41) 1-Methylnaphthalene	7.507	115	74679	4.715	ug/ml	74
42) Hexachlorocyclopentadiene	7.607	237	66447	4.565	ug/ml	99
43) 2,4,6-Trichlorophenol	7.742	196	73358M3	5.180	ug/ml	
44) 2,4,5-Trichlorophenol	7.766	196	78429	5.084	ug/ml	99
46) 2-Chloronaphthalene	7.889	162	184123	4.648	ug/ml	97
47) 2-Nitroaniline	8.031	138	63783	5.560	ug/ml	96
48) 1,4-Dinitrobenzene	8.172	168	33172	5.460	ug/ml	89
49) 1,3-Dinitrobenzene	8.248	168	37000	5.326	ug/ml#	1
50) Dimethyl phthalate	8.266	163	243988	4.660	ug/ml#	98
51) Acenaphthylene	8.278	152	308192	5.003	ug/ml	99
52) 2,6-Dinitrotoluene	8.289	165	54507	5.184	ug/ml#	82
53) 1,2-Dinitrobenzene	8.319	168	22433	5.425	ug/ml	88
63) 3-Nitroaniline	8.431	138	58452	5.967	ug/ml#	93
64) Acenaphthene	8.454	154	170294	5.139	ug/ml	94
65) 2,4-Dinitrophenol	8.536	184	38678	6.198	ug/ml	94
66) Dibenzofuran	8.625	168	281319	4.849	ug/ml	96
67) 2,4-Dinitrotoluene	8.666	165	75688	5.680	ug/ml#	87
68) 4-Nitrophenol	8.672	65	63348	6.027	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	8.736	232	71137M3	6.031	ug/ml	
70) 2,3,4,6-Tetrachlorophenol	8.778	232	66400	5.734	ug/ml	97
71) Diethyl phthalate	8.954	149	251294	5.205	ug/ml	98
72) Fluorene	8.948	166	226047	4.959	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.001	204	110713	4.617	ug/ml	95
74) 4-Nitroaniline	9.007	138	61203	6.379	ug/ml#	84
75) 4,6-Dinitro-o-cresol	9.042	198	49135	6.544	ug/ml#	73
76) NDPA/DPA	9.119	169	190604	5.078	ug/ml	99
77) Azobenzene	9.142	77	224668M3	4.697	ug/ml	
79) 4-Bromophenyl phenyl e...	9.448	248	65560	4.589	ug/ml	94
80) Hexachlorobenzene	9.472	284	76418	4.620	ug/ml#	87
81) Pentachlorophenol	9.677	266	56986	5.913	ug/ml	99
88) Phenanthrene	9.836	178	347357M3	5.048	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
Misc : WG1935854,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 18 11:03:20 2024
Quant Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	9.889	178	349089	5.128	ug/ml	98
90) Carbazole	10.072	167	348910	5.602	ug/ml	100
91) Di-n-butylphthalate	10.519	149	437621	5.765	ug/ml	100
92) Fluoranthene	10.954	202	383327	4.866	ug/ml#	92
93) Benzidine	11.142	184	305816	6.771	ug/ml#	96
94) Pyrene	11.154	202	453101	5.447	ug/ml	98
96) Butyl benzyl phthalate	11.913	149	223444	6.921	ug/ml	92
104) Benzo(a)anthracene	12.301	228	466201M3	5.276	ug/ml	
105) 3,3'-Dichlorobenzidine	12.336	252	182980	6.012	ug/ml#	98
106) Chrysene	12.330	228	450578	5.167	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	12.524	149	335201	6.399	ug/ml#	90
108) Di-n-octylphthalate	13.142	149	594766M3	6.930	ug/ml	
109) Benzo(b)fluoranthene	13.301	252	490190M3	6.076	ug/ml	
110) Benzo(k)fluoranthene	13.324	252	399488	5.070	ug/ml	97
111) Benzo(a)pyrene	13.577	252	432296M2	5.983	ug/ml	
113) Indeno(1,2,3-cd)pyrene	14.530	276	406655M3	5.249	ug/mL	
114) Dibenzo(a,h)anthracene	14.565	278	406229	5.515	ug/ml#	92
115) Benzo(ghi)perylene	14.730	276	399792	5.497	ug/ml#	88

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ABN0618a.D
Acq On : 18 Jun 2024 10:36 am
Operator : SV106:als
Sample : WG1935854-3,32,,ABN 10526 HNY0517C
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Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:47 2024
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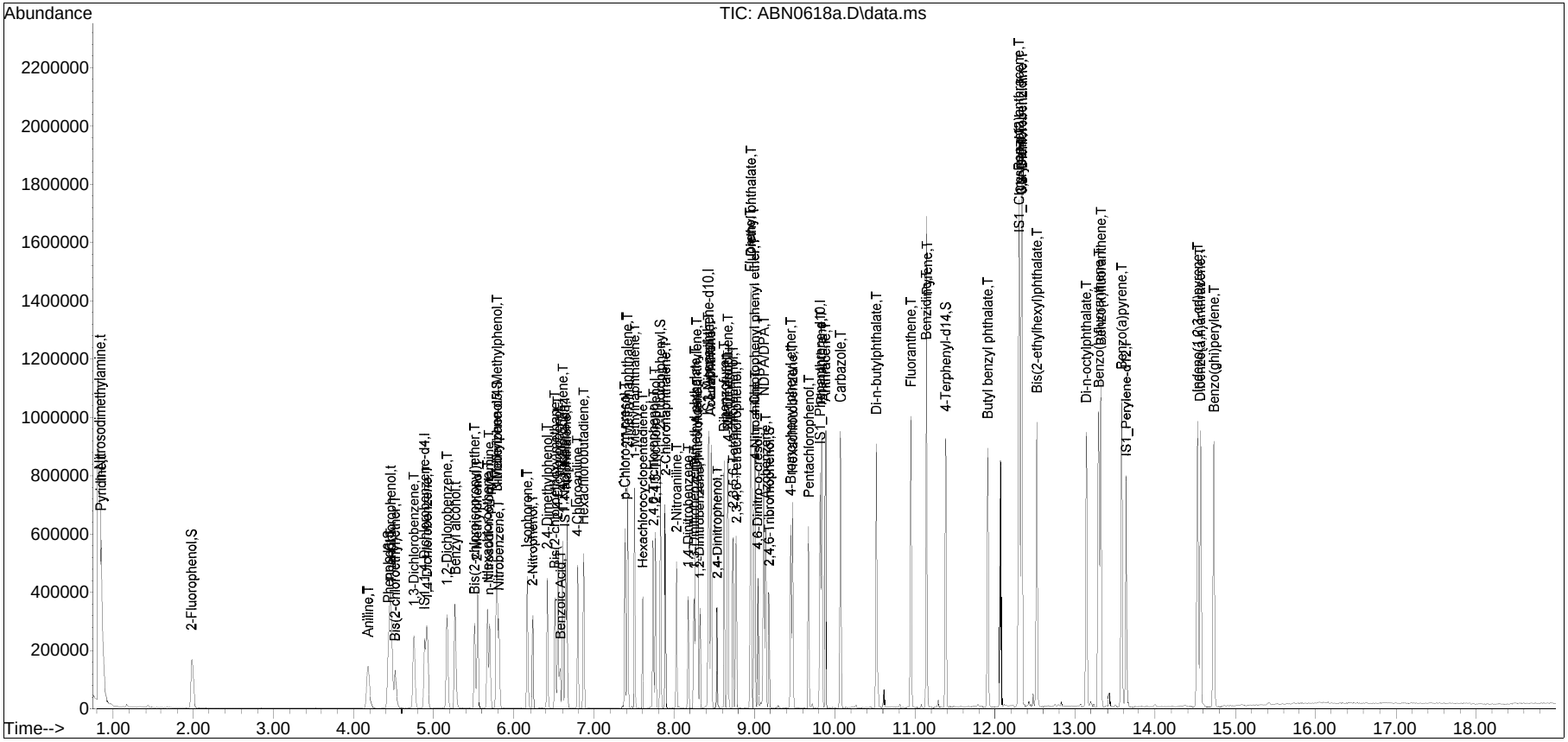
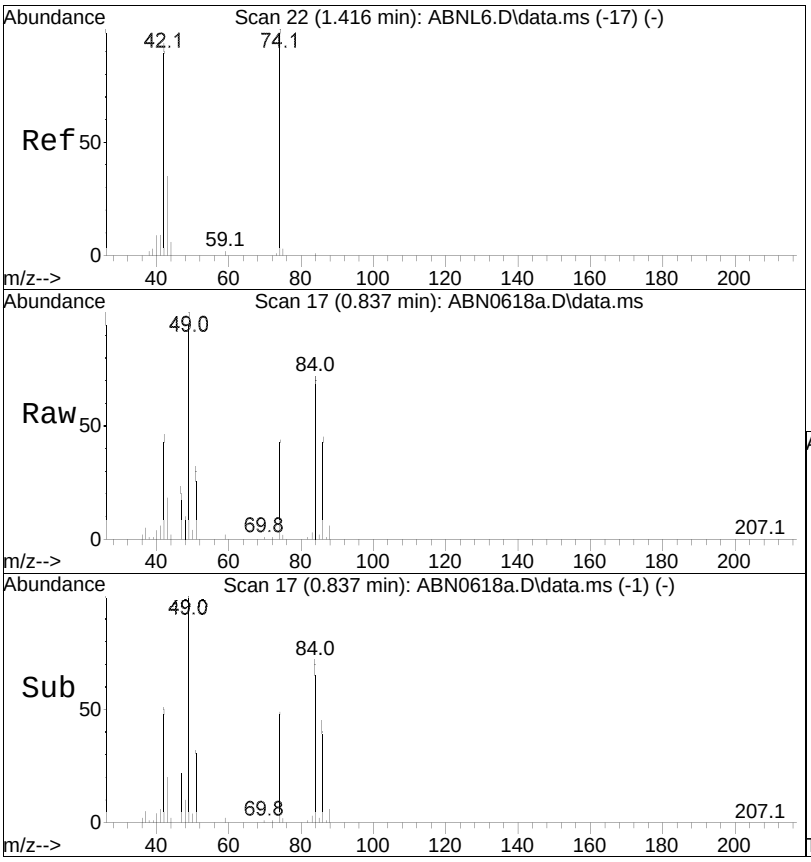
Sub List : ABNical - ABN ical sublist

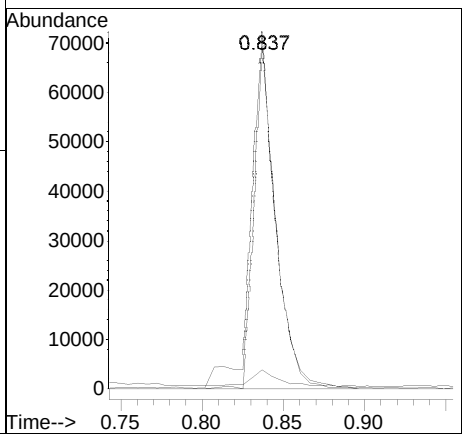


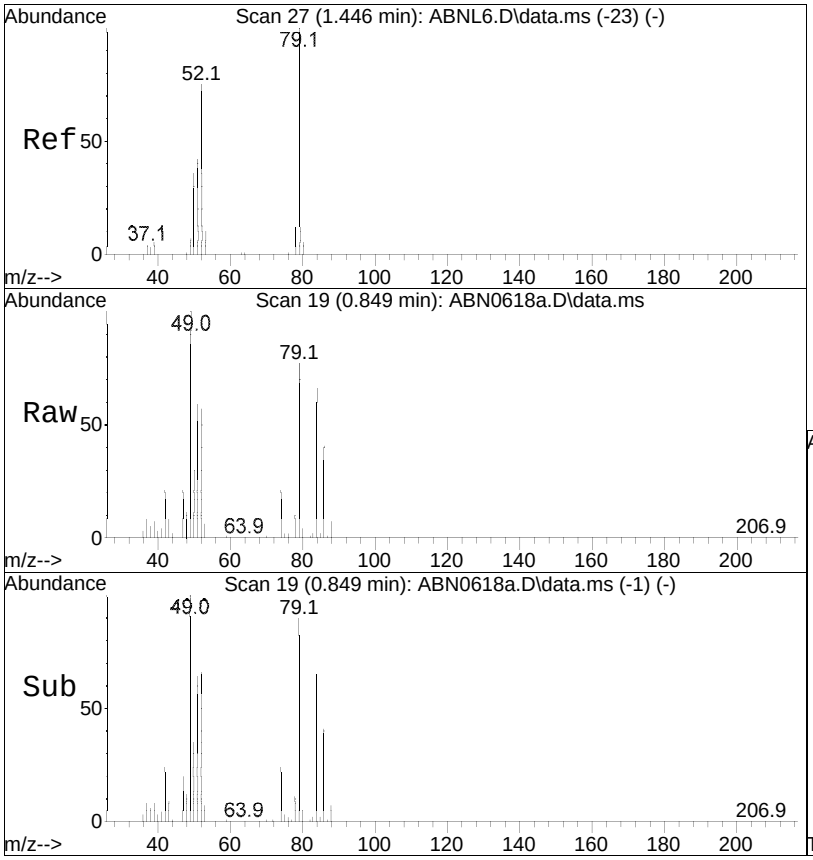


#2
n-Nitrosodimethylamine
Concen: 5.43 ug/ml
RT: 0.837 min Scan# 17
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 74 Resp: 63630

Ion	Ratio	Lower	Upper
74	100		
42	115.6	100.0	150.0
44	6.2	6.7	10.1#

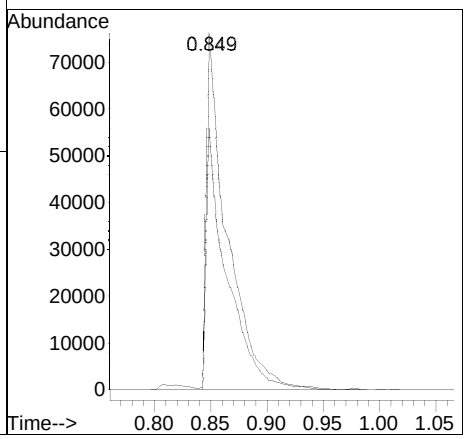


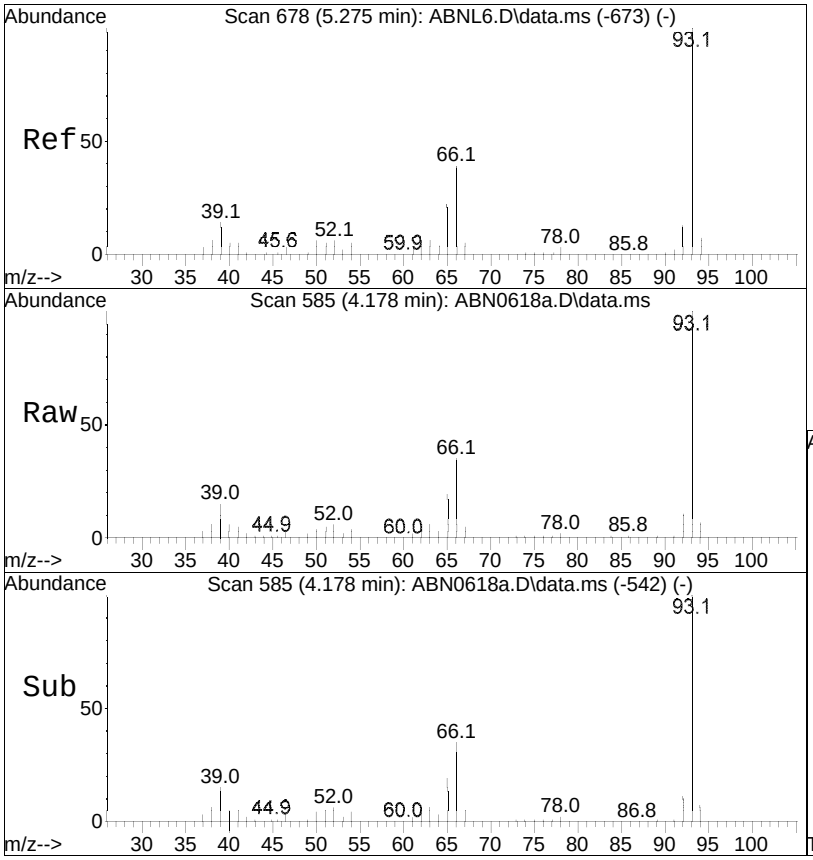


#3
Pyridine
Concen: 5.54 ug/ml
RT: 0.849 min Scan# 19
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 79 Resp: 97218

Ion	Ratio	Lower	Upper
79	100		
52	72.2	93.1	139.7#

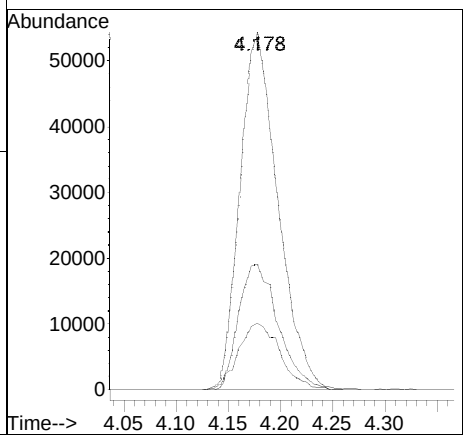


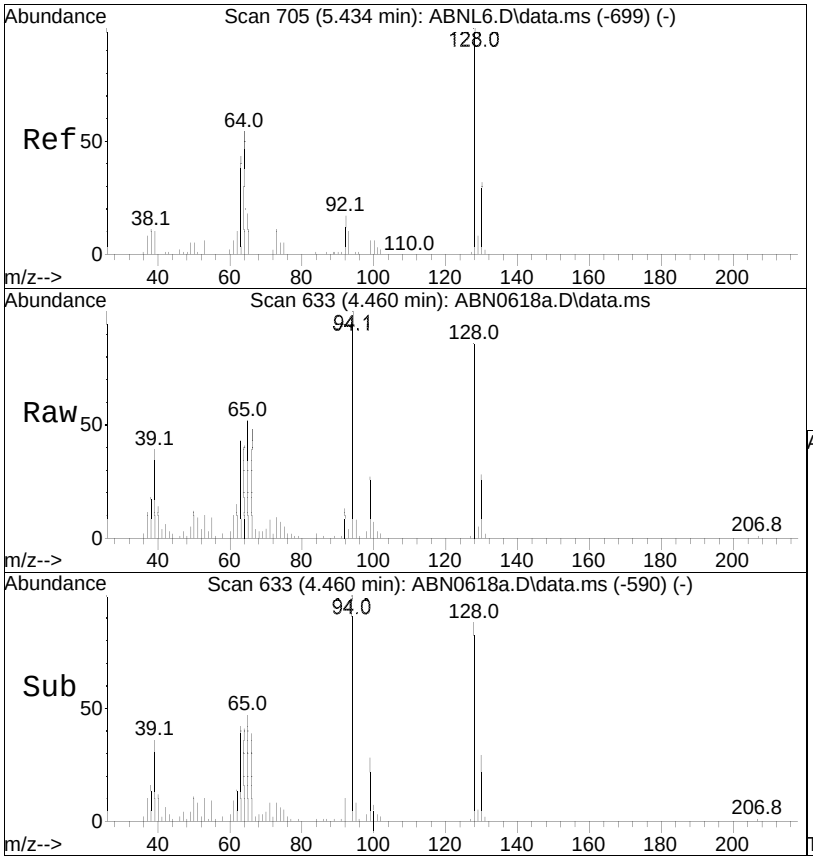


#5
Aniline
Concen: 4.84 ug/ml
RT: 4.178 min Scan# 585
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 93 Resp: 135987

Ion	Ratio	Lower	Upper
93	100		
66	37.0	32.6	49.0
65	20.4	17.6	26.4

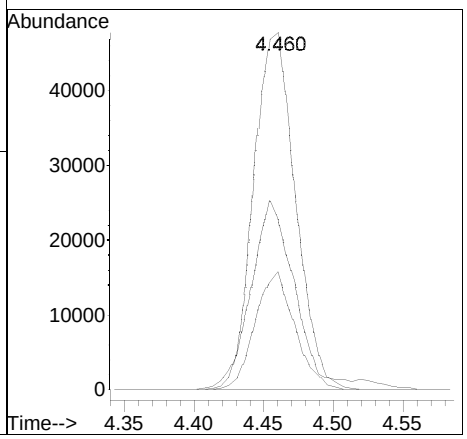


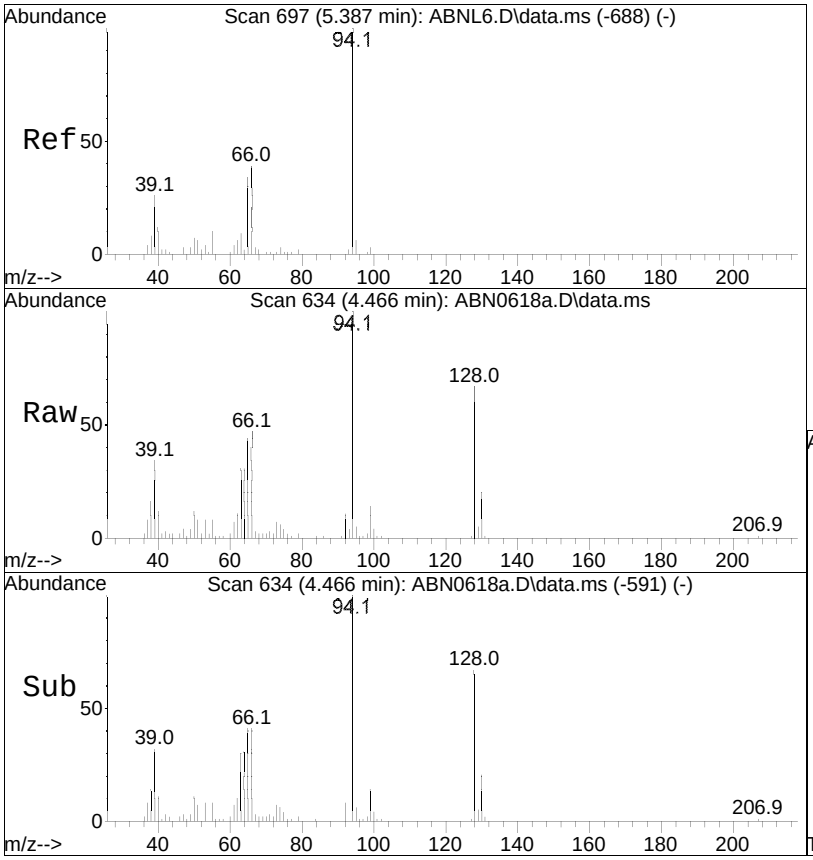


#6
2-Chlorophenol
Concen: 5.44 ug/ml
RT: 4.460 min Scan# 633
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:128 Resp: 99422

Ion	Ratio	Lower	Upper
128	100		
64	55.4	45.1	67.7
130	31.4	26.2	39.4

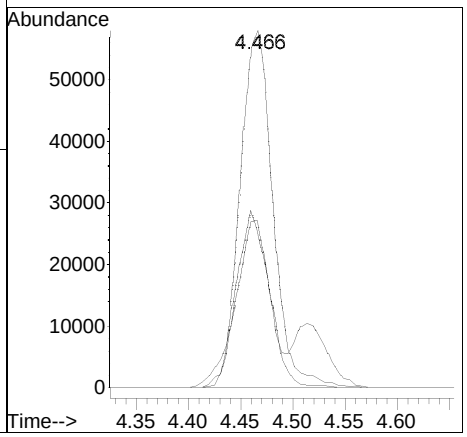


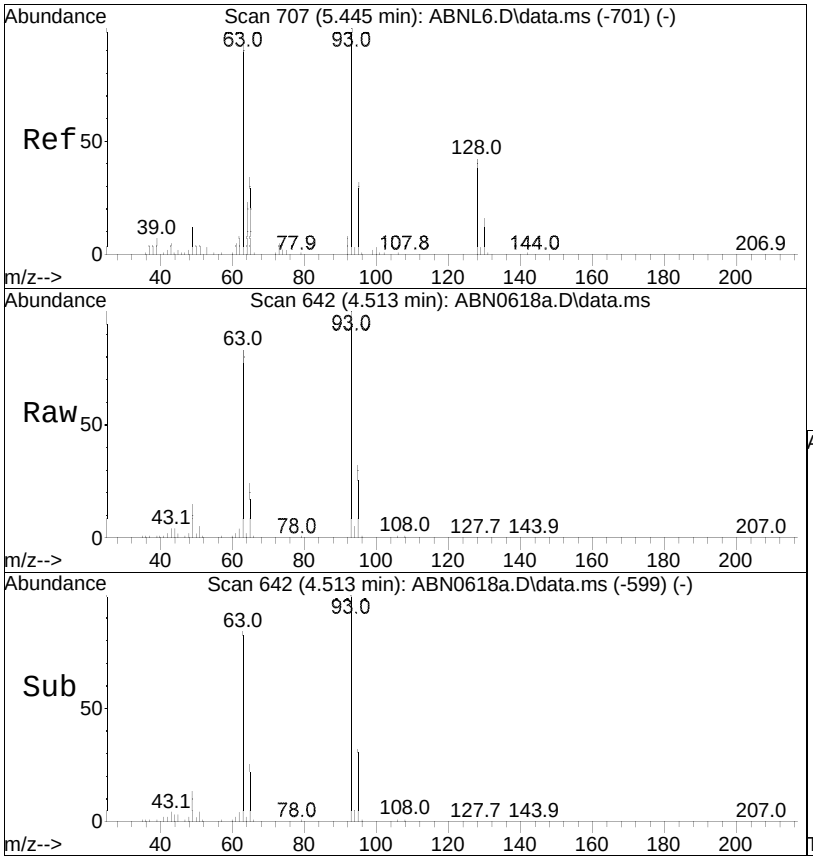


#8
Phenol
Concen: 5.46 ug/ml
RT: 4.466 min Scan# 634
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 94 Resp: 126317

Ion	Ratio	Lower	Upper
94	100		
65	49.6	26.0	39.0#
66	50.3	33.8	50.8

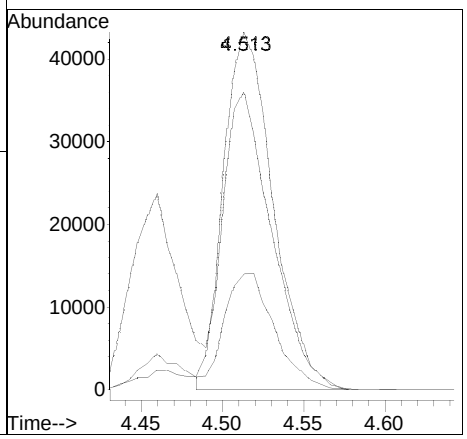


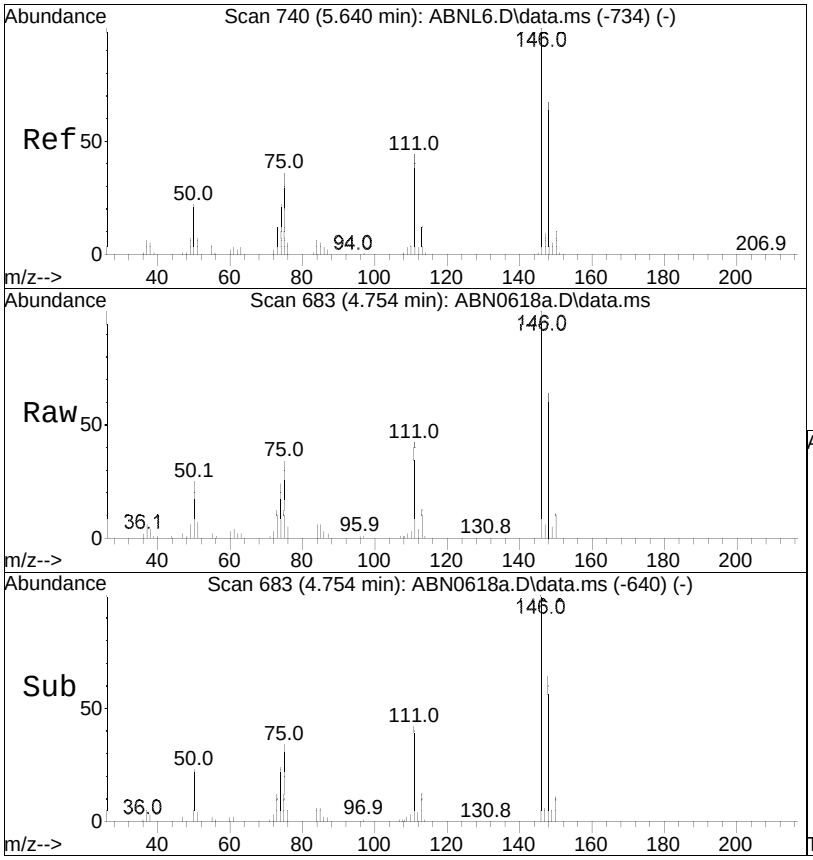


#9
Bis(2-chloroethyl)ether
Concen: 5.03 ug/ml
RT: 4.513 min Scan# 642
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 93 Resp: 91823

Ion	Ratio	Lower	Upper
93	100		
63	81.3	74.6	111.8
95	33.1	25.9	38.9

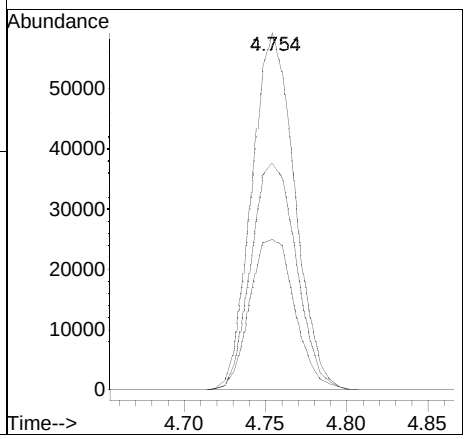


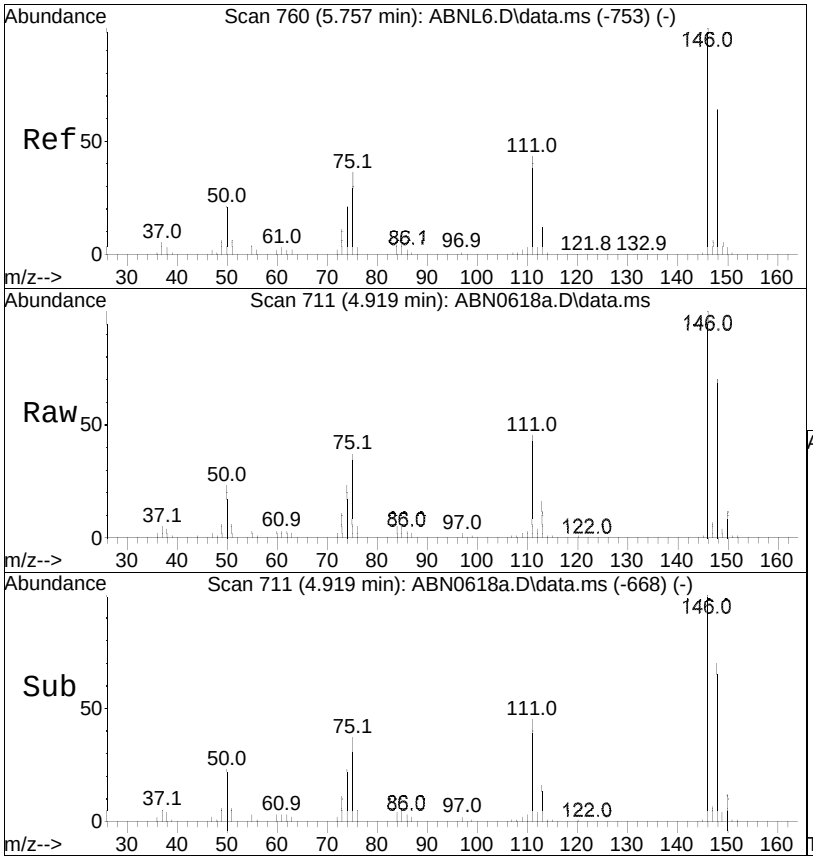


#10
1,3-Dichlorobenzene
Concen: 5.14 ug/ml
RT: 4.754 min Scan# 683
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:146 Resp: 108648

Ion	Ratio	Lower	Upper
146	100		
111	44.4	34.3	51.5
148	66.5	50.8	76.2

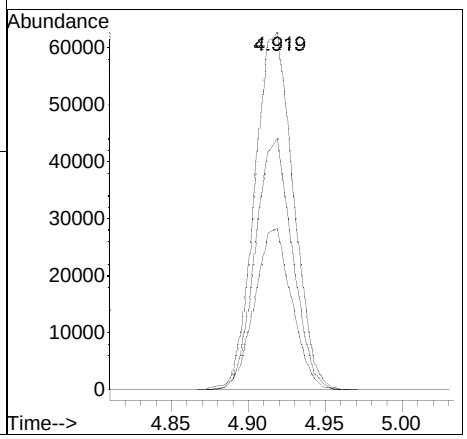


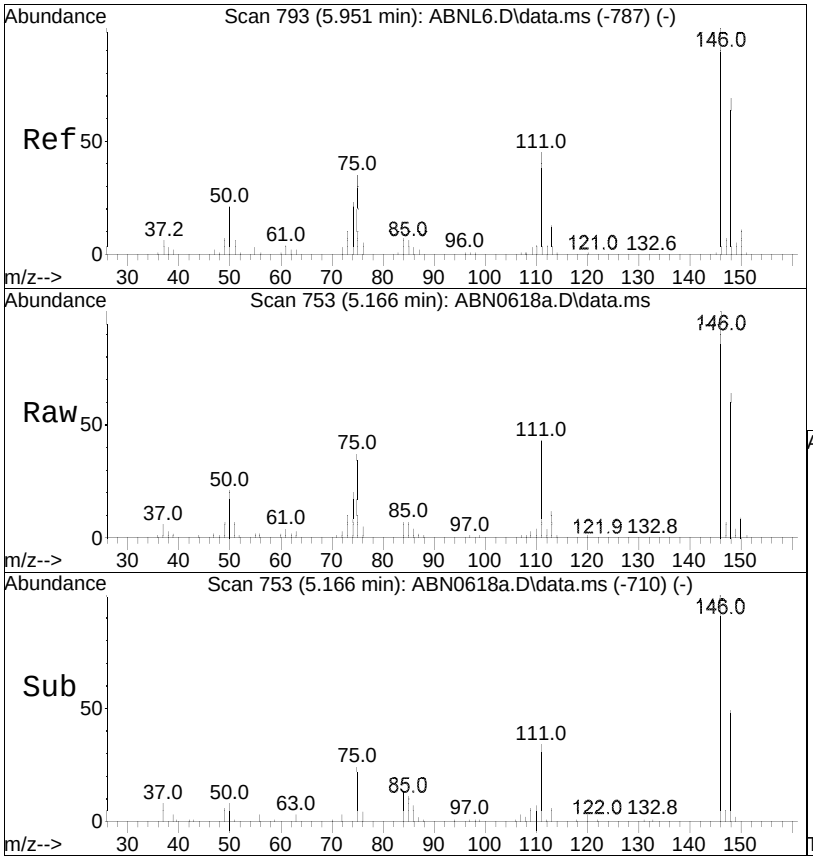


#11
1,4-Dichlorobenzene
Concen: 4.93 ug/ml
RT: 4.919 min Scan# 711
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:146 Resp: 108738

Ion	Ratio	Lower	Upper
146	100		
148	67.7	50.7	76.1
111	44.3	33.4	50.0

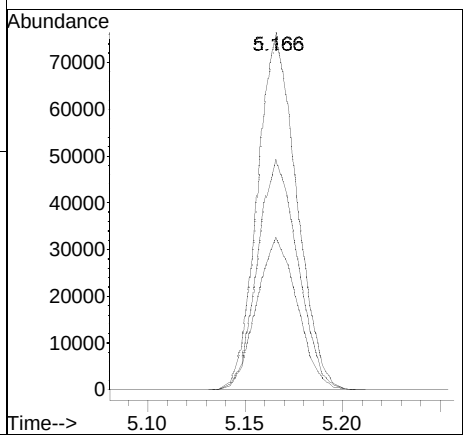


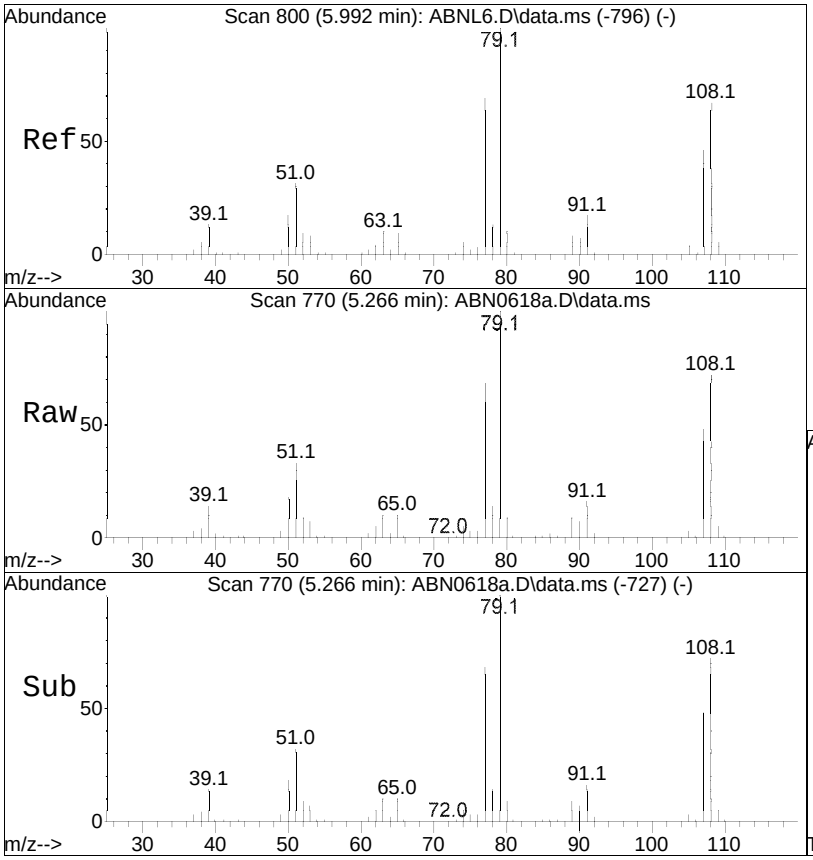


#12
1,2-Dichlorobenzene
Concen: 5.25 ug/ml
RT: 5.166 min Scan# 753
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:146 Resp: 105828

Ion	Ratio	Lower	Upper
146	100		
111	44.5	34.6	52.0
148	66.3	50.2	75.4

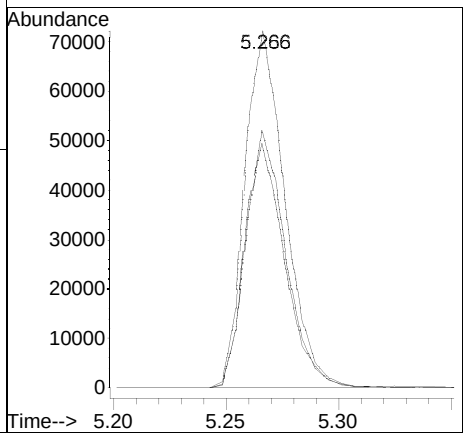


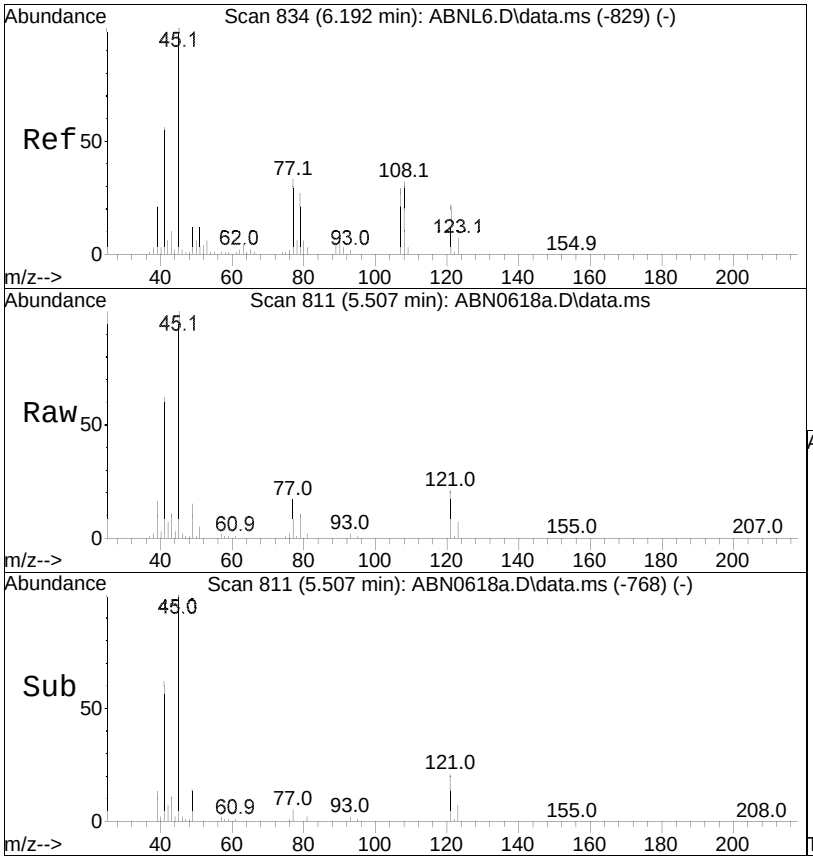


#13
Benzyl alcohol
Concen: 5.07 ug/ml
RT: 5.266 min Scan# 770
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 79 Resp: 89507

Ion	Ratio	Lower	Upper
79	100		
77	68.5	54.9	82.3
108	71.4	63.1	94.7

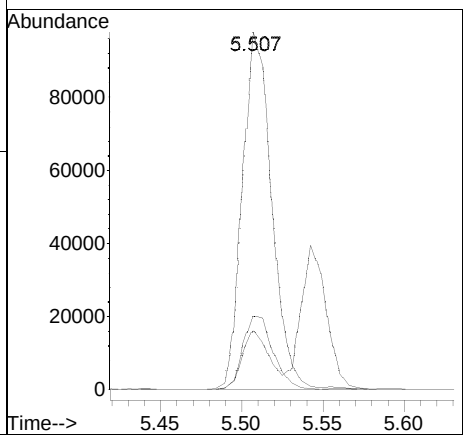


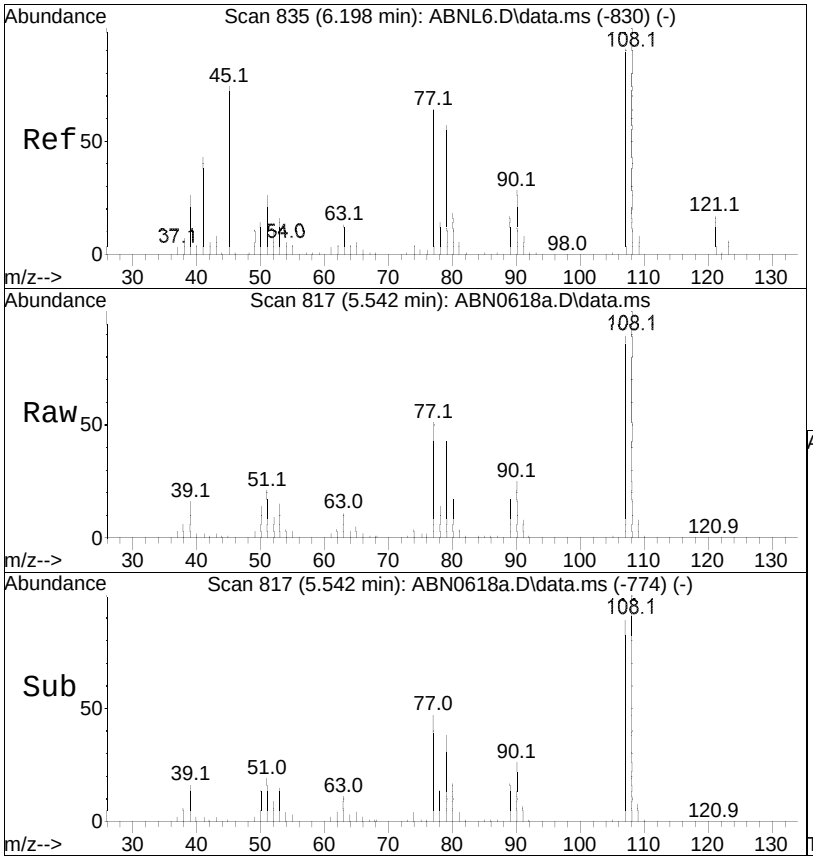


#14
Bis(2-chloroisopropyl)ether
Concen: 4.53 ug/ml
RT: 5.507 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 45 Resp: 122361

Ion	Ratio	Lower	Upper
45	100		
121	21.1	9.8	14.6#
77	15.5	6.1	9.1#

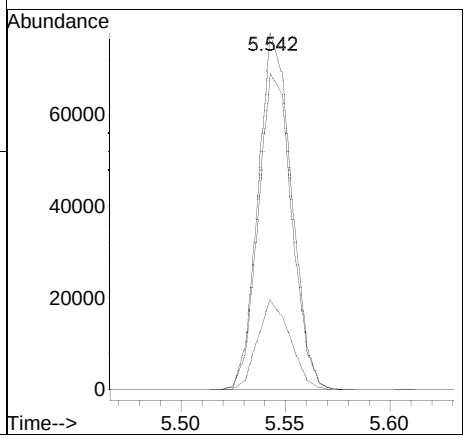


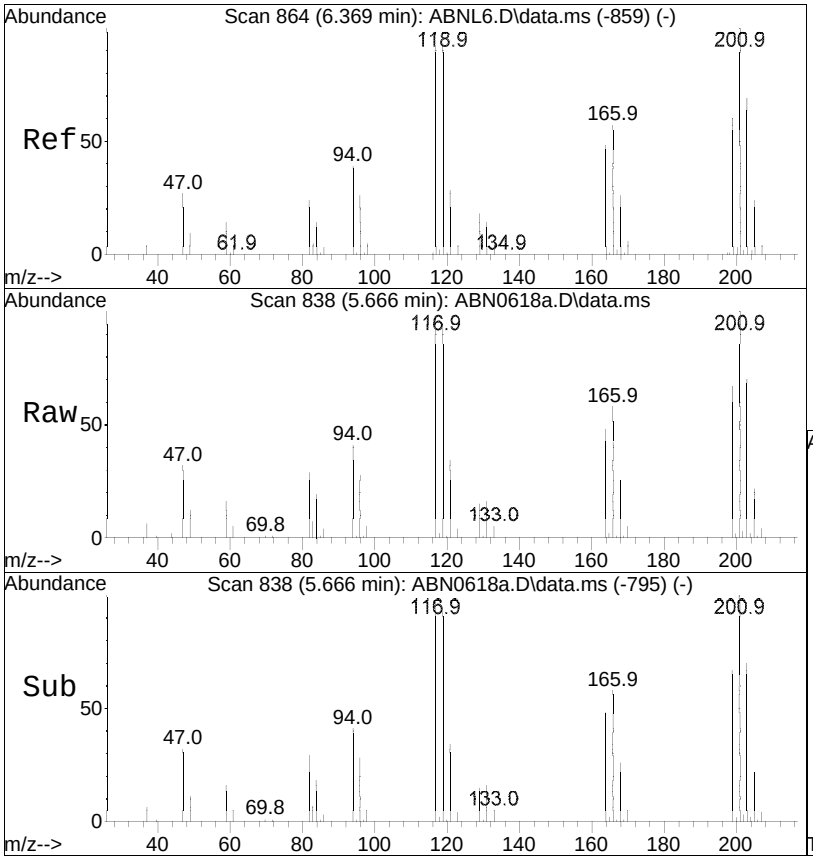


#15
2-Methylphenol
Concen: 5.25 ug/ml
RT: 5.542 min Scan# 817
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:108 Resp: 86356

Ion	Ratio	Lower	Upper
108	100		
107	89.5	70.7	106.1
90	24.8	18.7	28.1

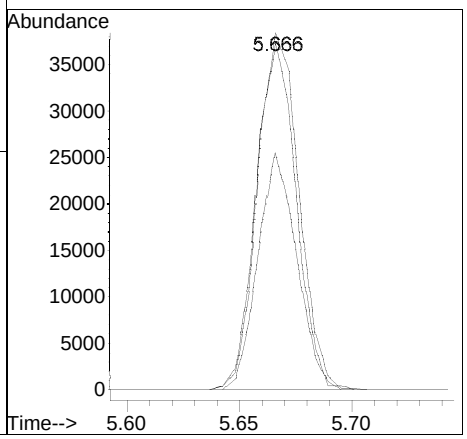


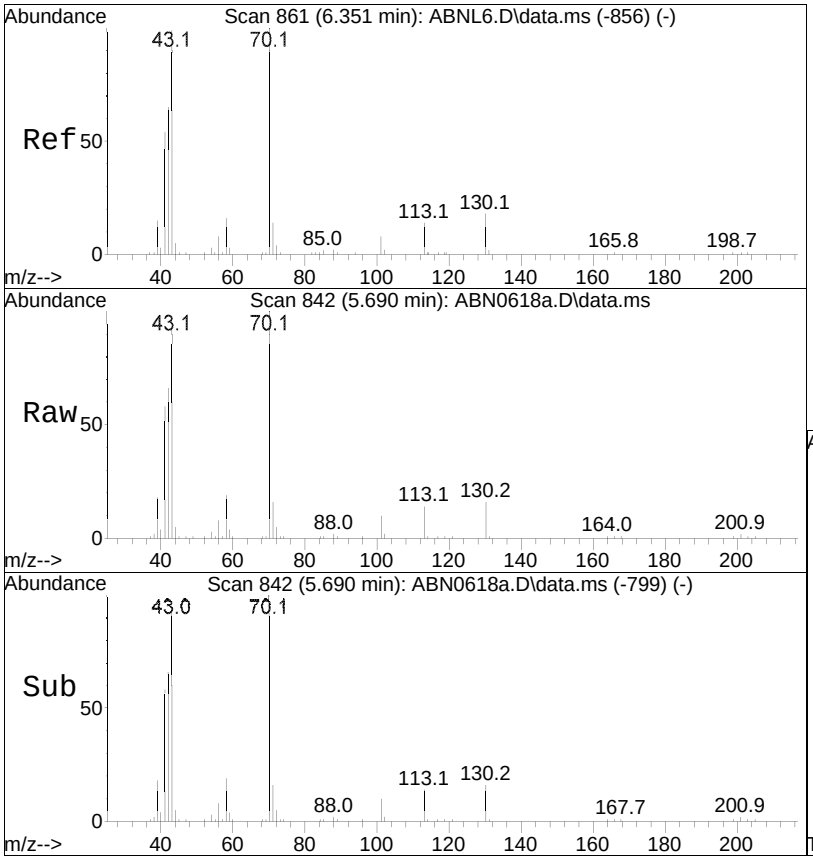


#16
Hexachloroethane
Concen: 5.10 ug/ml
RT: 5.666 min Scan# 838
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:117 Resp: 45933

Ion	Ratio	Lower	Upper
117	100		
201	106.8	58.6	87.8#
199	66.7	36.9	55.3#

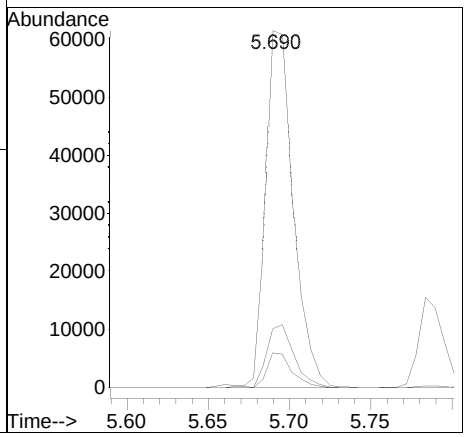


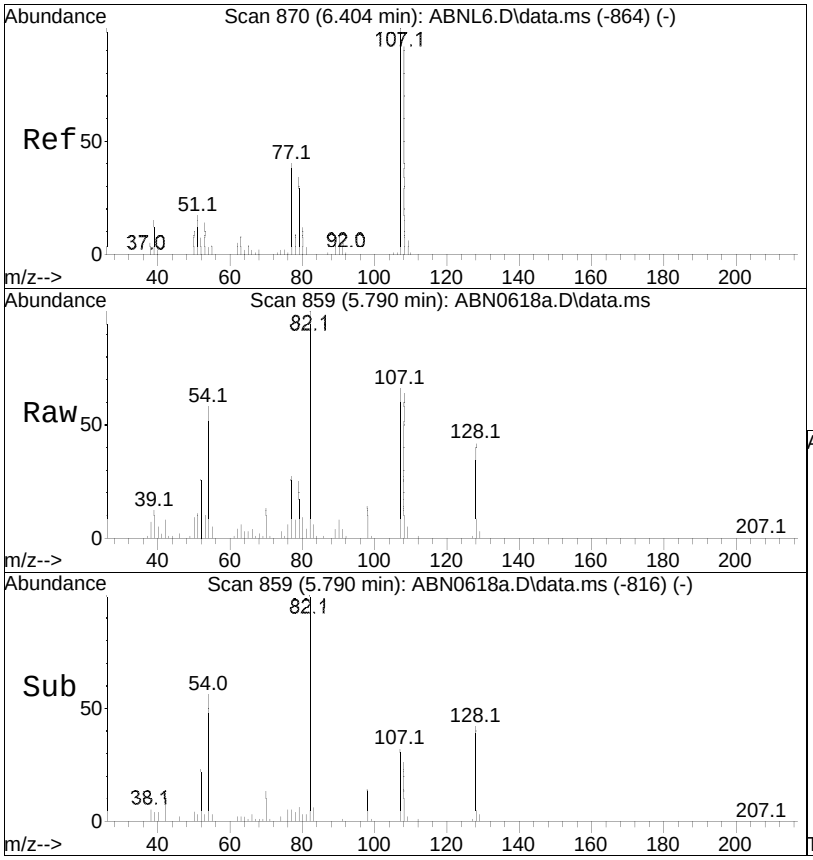


#17
n-Nitrosodi-n-propylamine
Concen: 4.78 ug/ml
RT: 5.690 min Scan# 842
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 70 Resp: 73397

Ion	Ratio	Lower	Upper
70	100		
130	17.4	18.2	27.4#
101	8.8	7.8	11.8

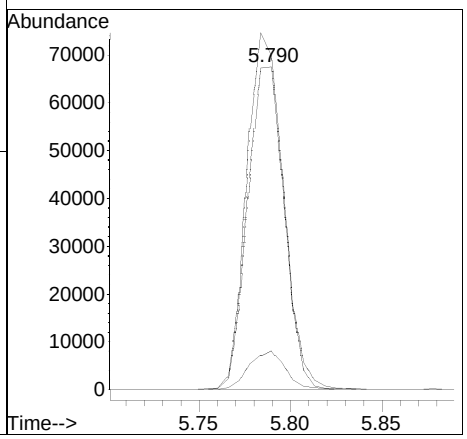


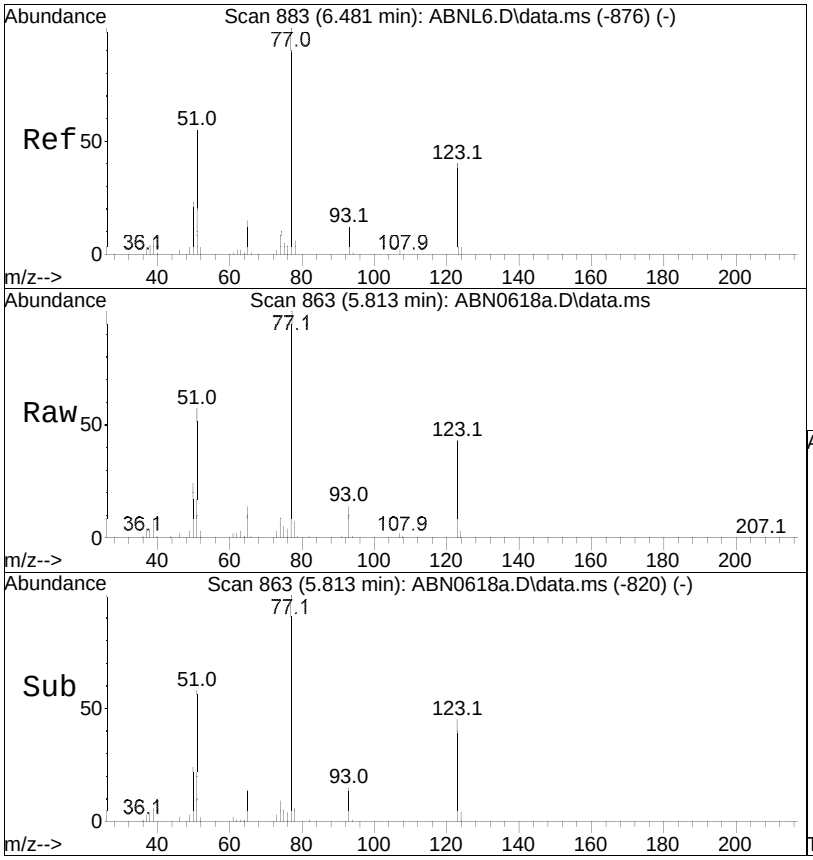


#18
3-Methylphenol/4-Methylphenol
Concen: 5.19 ug/ml
RT: 5.790 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:108 Resp: 92804

Ion	Ratio	Lower	Upper
108	100		
107	111.2	88.6	132.8
90	11.9	8.8	13.2

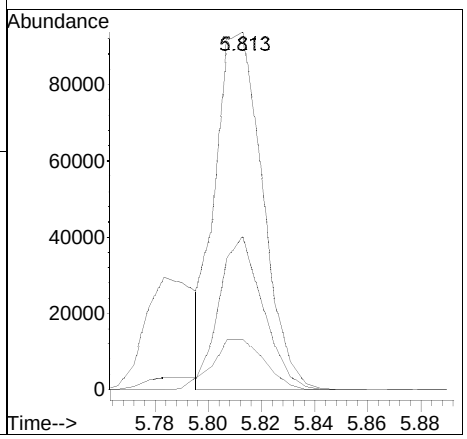


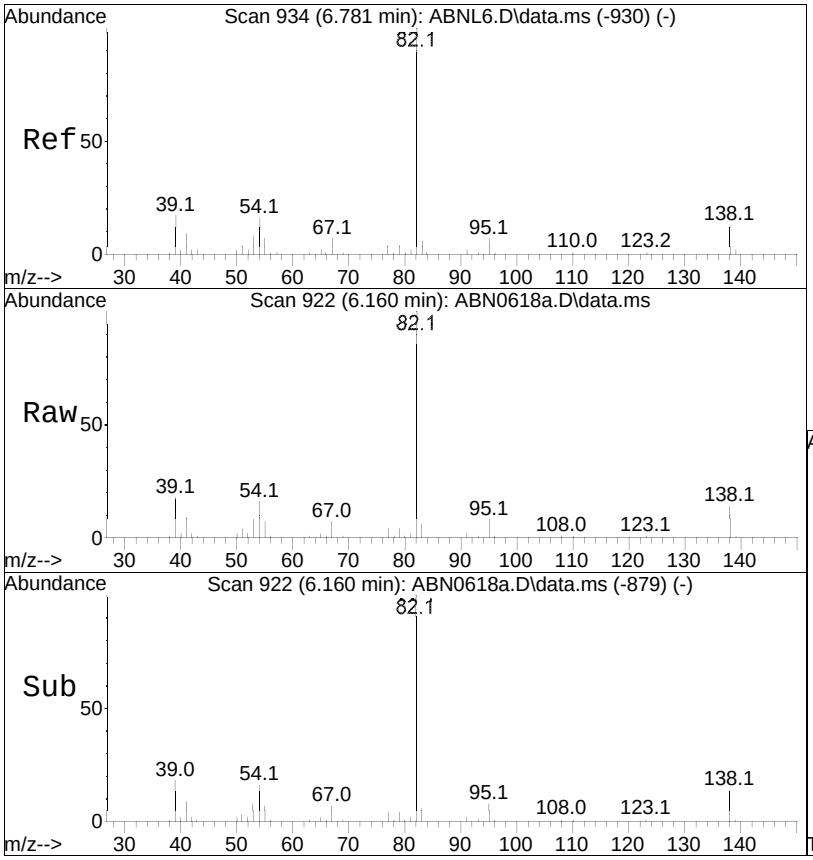


#20
Nitrobenzene
Concen: 5.11 ug/ml M6
RT: 5.813 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 77 Resp: 114201

Ion	Ratio	Lower	Upper
77	100		
123	41.0	36.3	54.5
65	18.7	11.6	17.4#

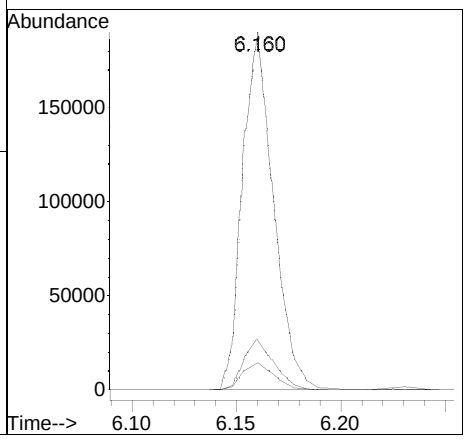


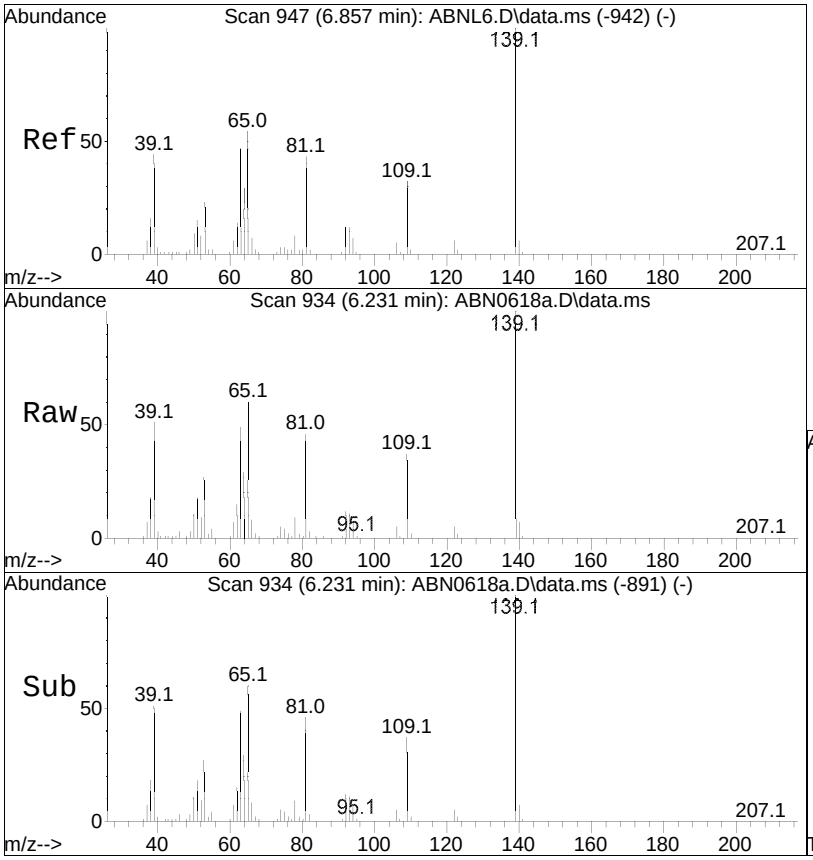


#21
Isophorone
Concen: 4.89 ug/ml
RT: 6.160 min Scan# 922
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 82 Resp: 193849

Ion	Ratio	Lower	Upper
82	100		
138	13.9	14.7	22.1#
95	7.9	5.2	7.8#

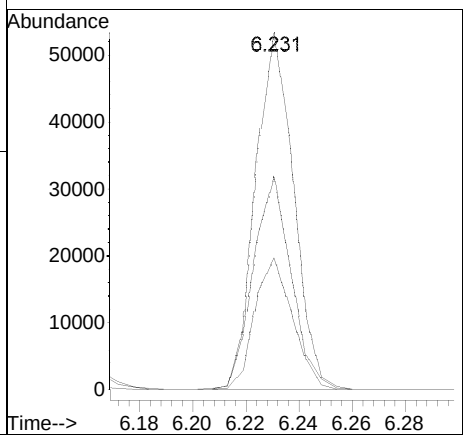


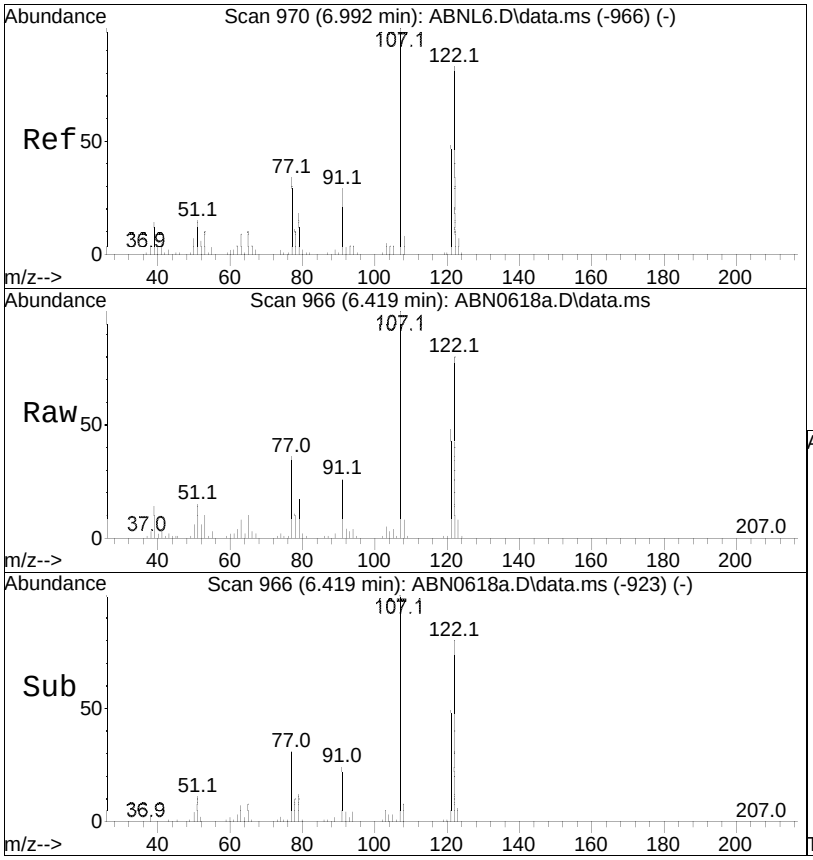


#22
2-Nitrophenol
Concen: 5.73 ug/ml
RT: 6.231 min Scan# 934
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:139 Resp: 52920

Ion	Ratio	Lower	Upper
139	100		
109	36.6	19.4	29.0#
65	59.4	46.1	69.1

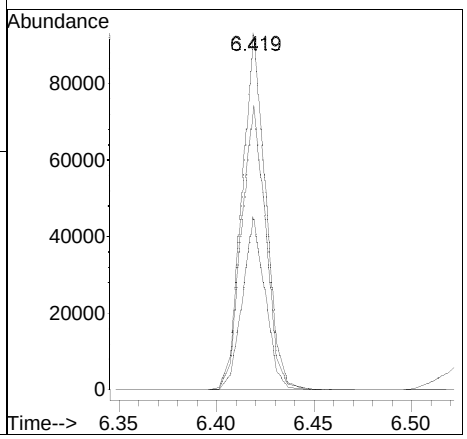


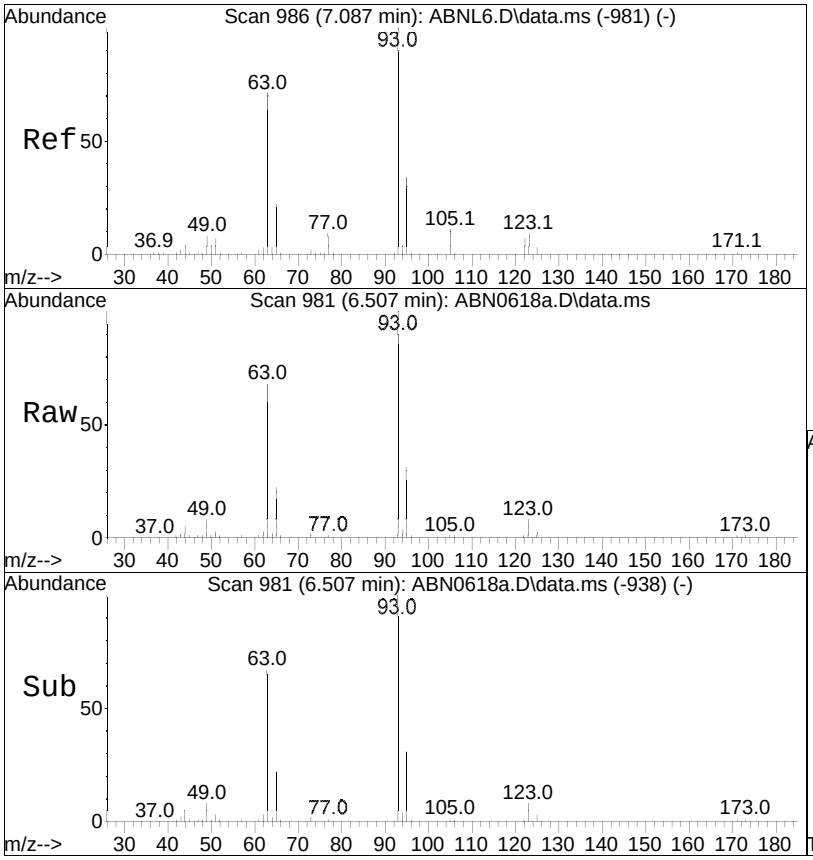


#23
2,4-Dimethylphenol
Concen: 4.19 ug/ml
RT: 6.419 min Scan# 966
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:107 Resp: 78496

Ion	Ratio	Lower	Upper
107	100		
121	46.9	40.0	60.0
122	81.3	70.2	105.4

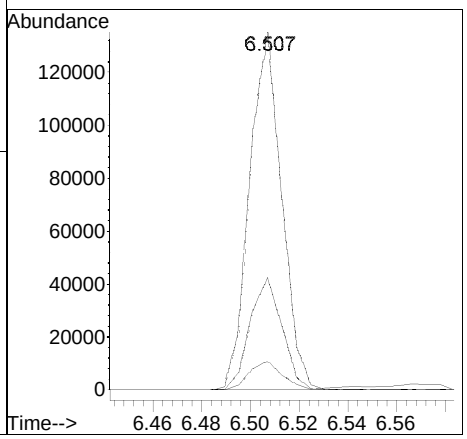


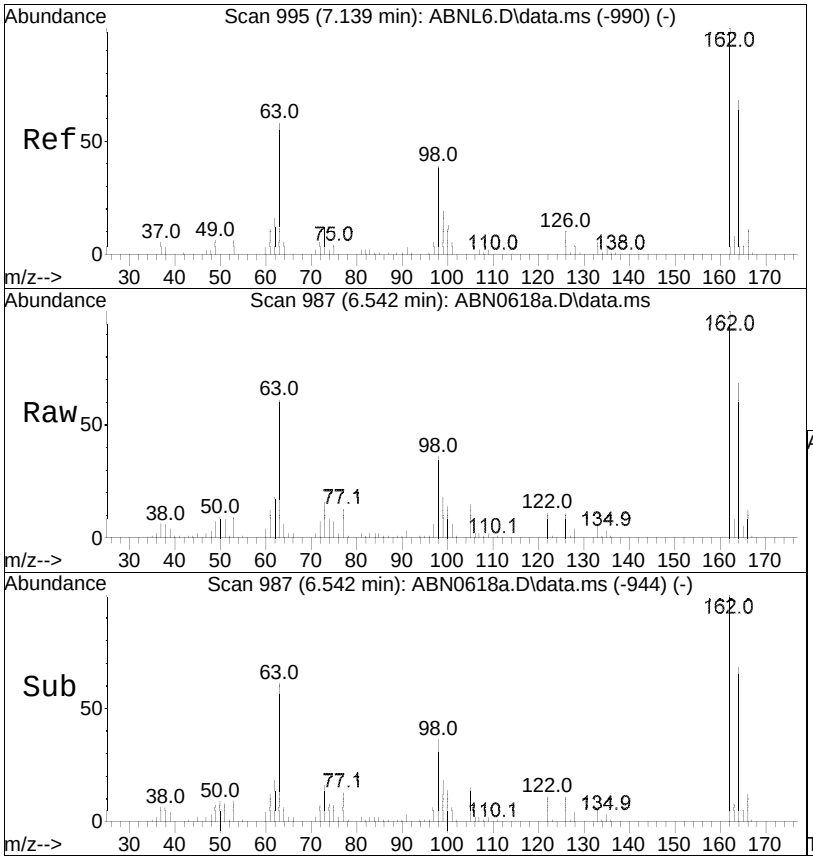


#24
Bis(2-chloroethoxy)methane
Concen: 4.92 ug/ml
RT: 6.507 min Scan# 981
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 93 Resp: 122318

Ion	Ratio	Lower	Upper
93	100		
95	31.6	25.8	38.8
123	8.7	10.1	15.1#

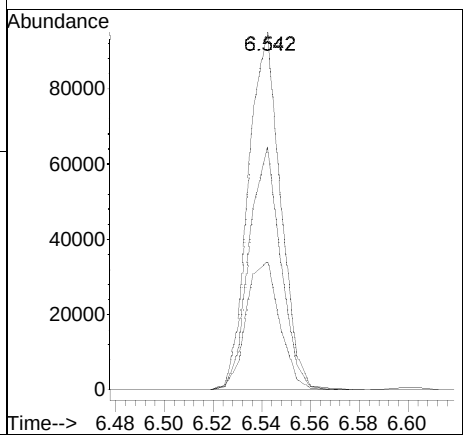


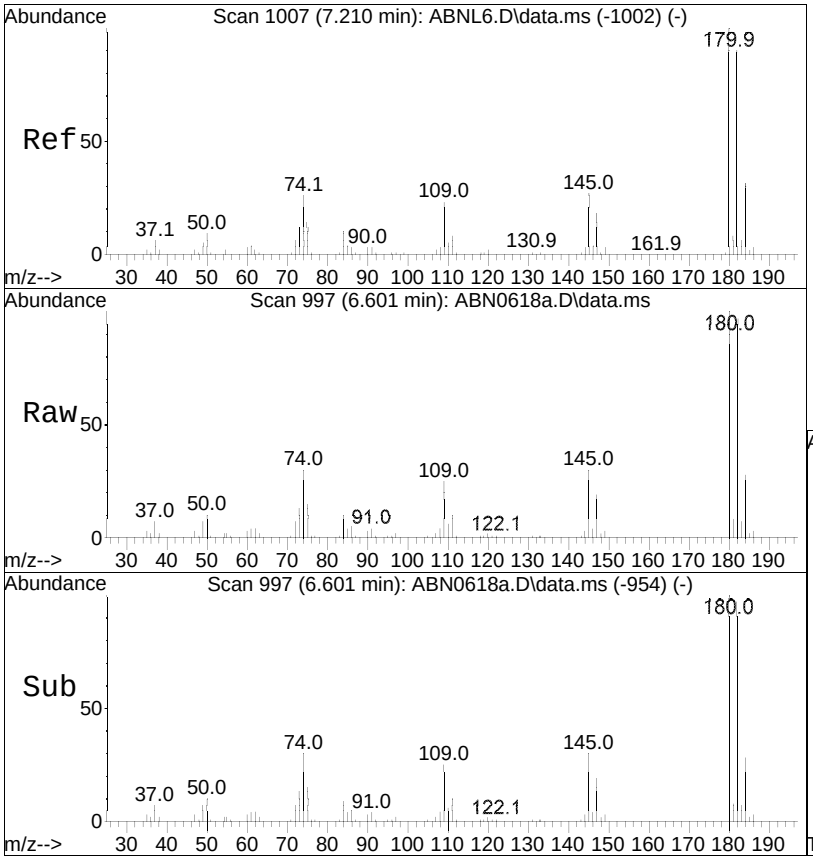


#25
2,4-Dichlorophenol
Concen: 5.07 ug/ml
RT: 6.542 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:162 Resp: 86491

Ion	Ratio	Lower	Upper
162	100		
164	66.5	51.0	76.4
98	37.8	32.2	48.2

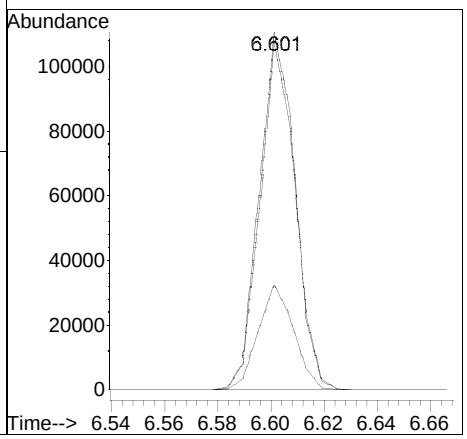


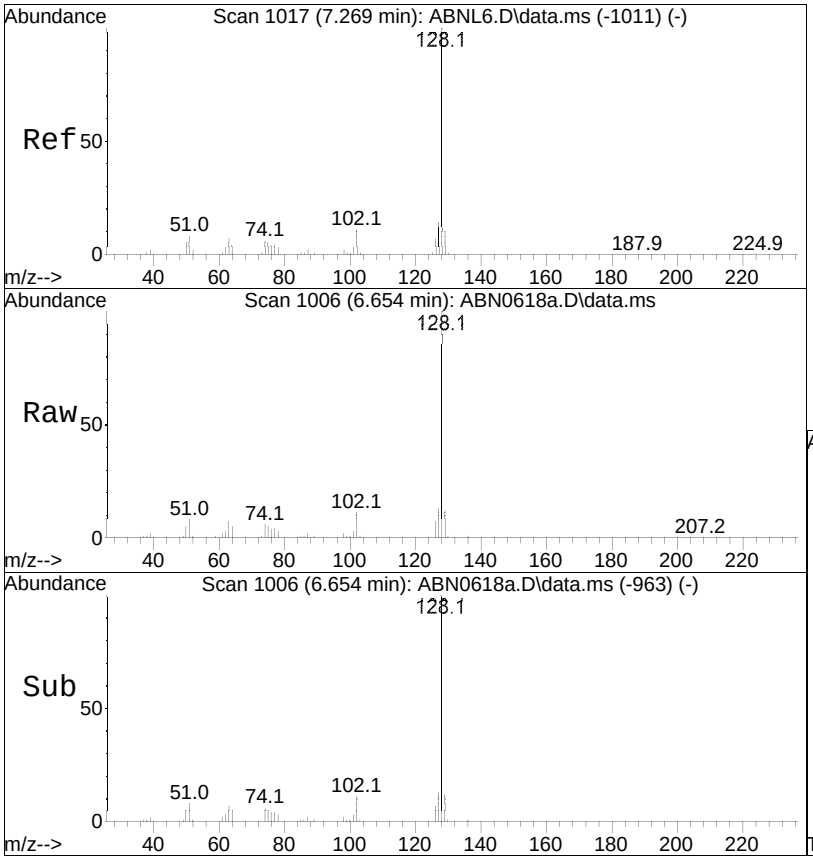


#26
1,2,4-Trichlorobenzene
Concen: 4.89 ug/ml
RT: 6.601 min Scan# 997
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:180 Resp: 101869

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.0	114.0
145	29.3	25.7	38.5

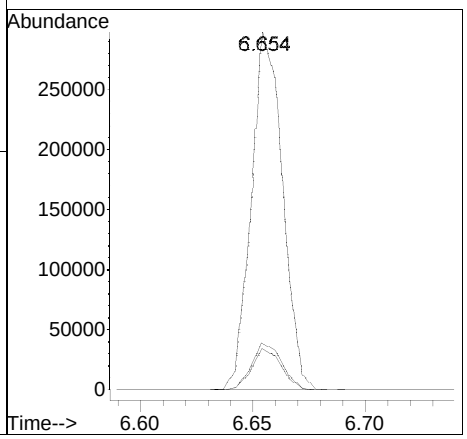


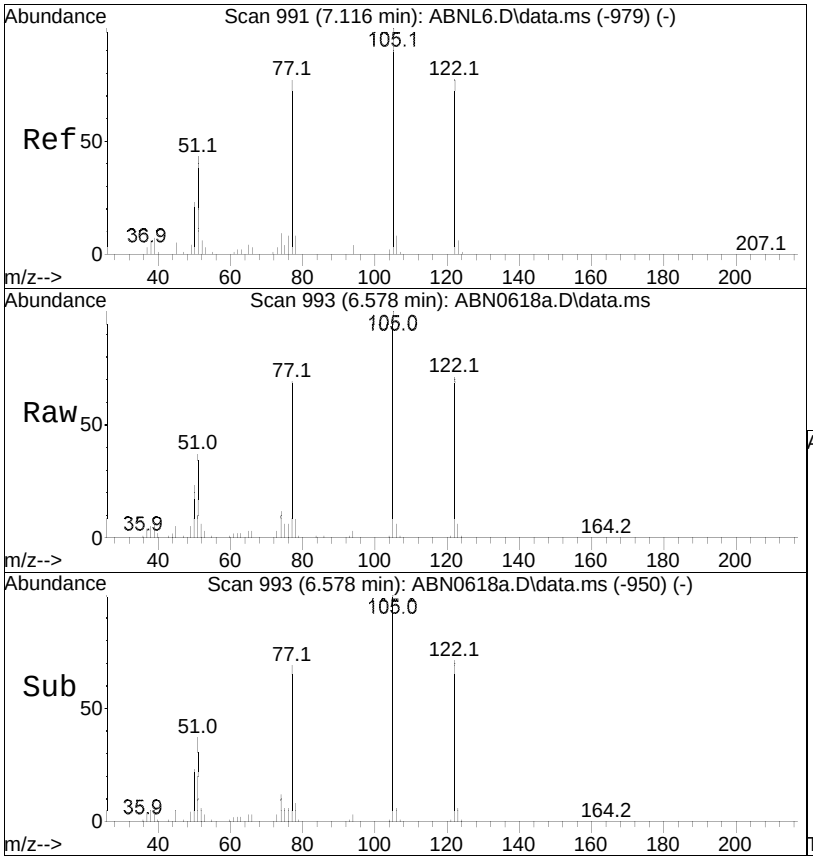


#35
Naphthalene
Concen: 4.99 ug/ml
RT: 6.654 min Scan# 1006
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:128 Resp: 283578

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	12.9	10.3	15.5

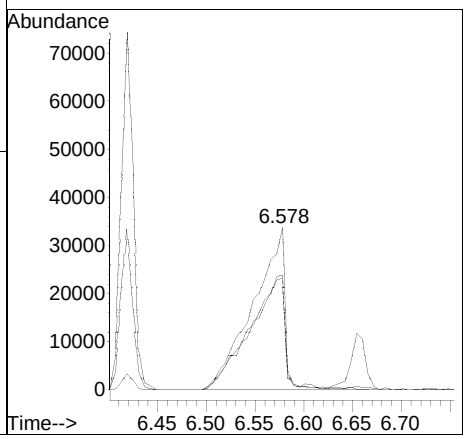


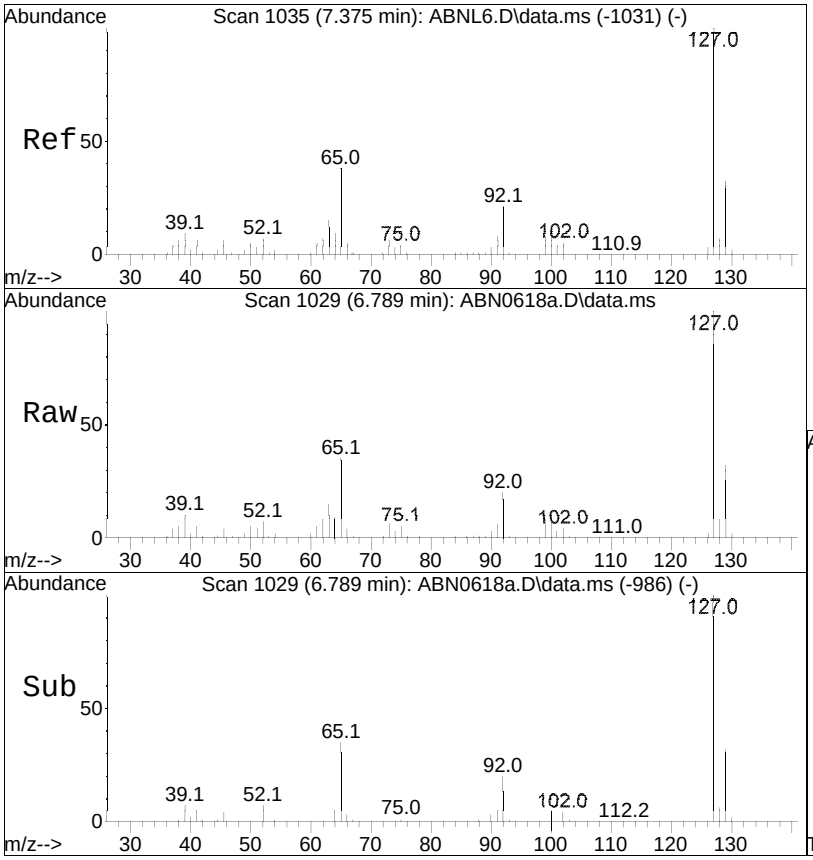


#36
Benzoic Acid
Concen: 5.47 ug/ml
RT: 6.578 min Scan# 993
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:105 Resp: 77211

Ion	Ratio	Lower	Upper
105	100		
122	74.7	59.9	89.9
77	76.6	60.1	90.1

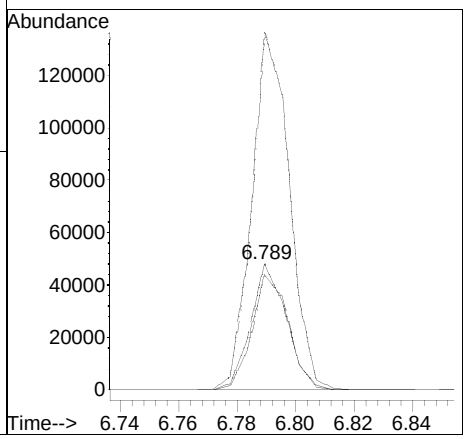


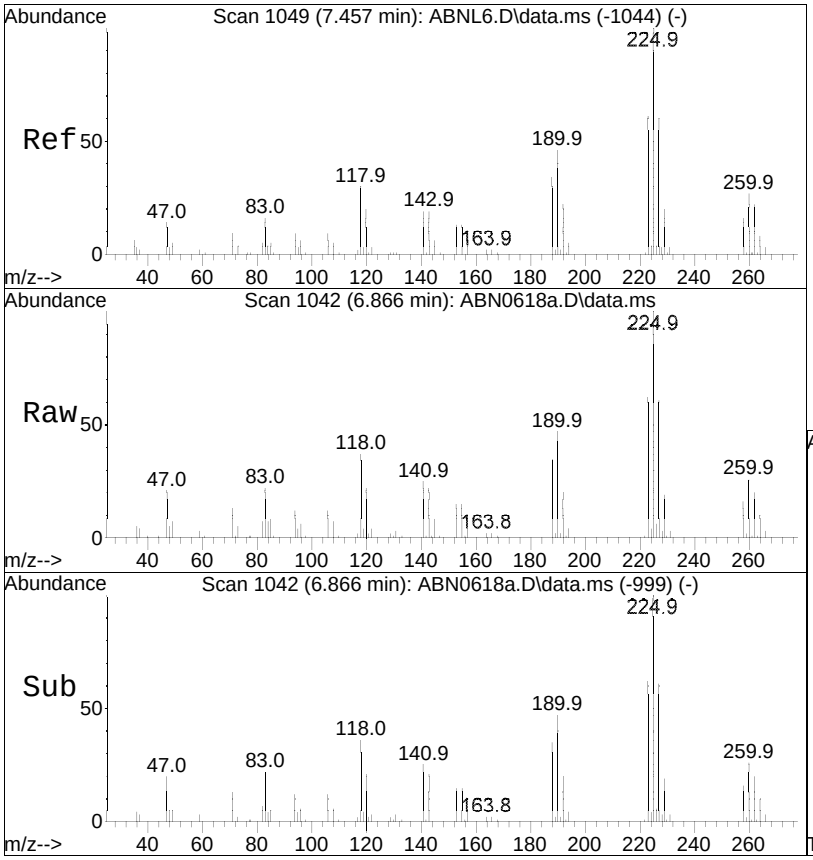


#37
4-Chloroaniline
Concen: 4.74 ug/ml
RT: 6.789 min Scan# 1029
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 65 Resp: 40405

Ion	Ratio	Lower	Upper
65	100		
127	298.1	237.6	356.4
129	93.9	76.3	114.5

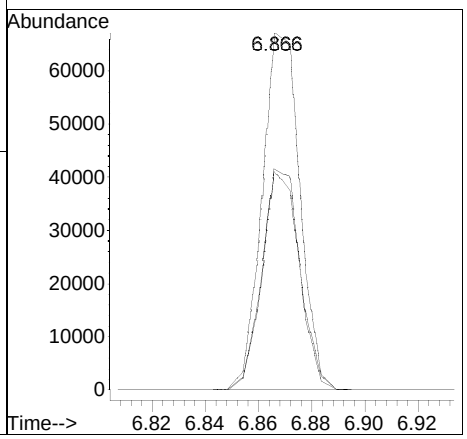


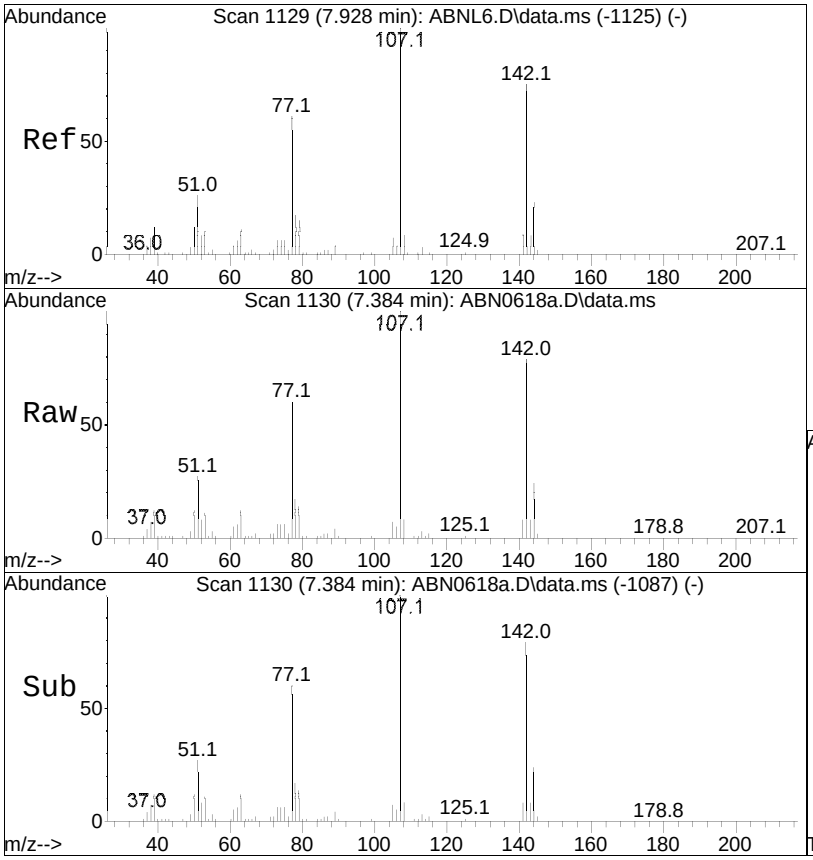


#38
Hexachlorobutadiene
Concen: 4.50 ug/ml
RT: 6.866 min Scan# 1042
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:225 Resp: 65983

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.3	75.5
227	61.0	52.2	78.2

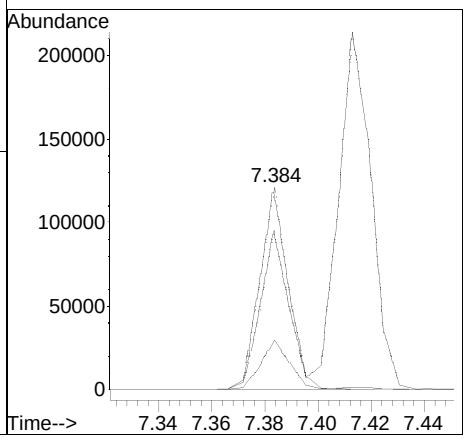


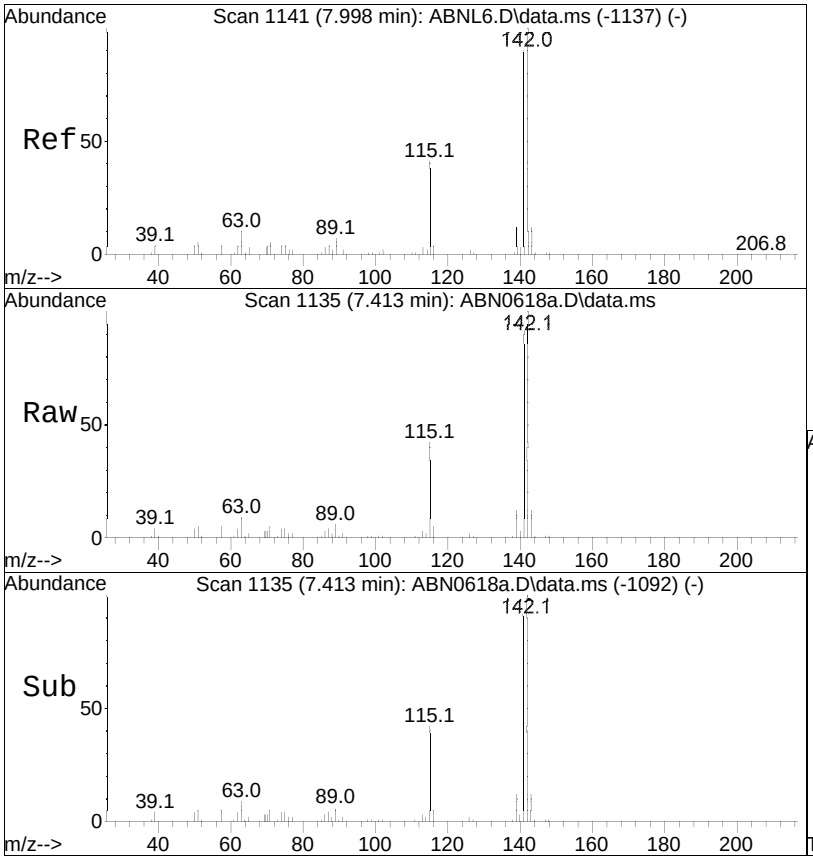


#39
p-Chloro-m-cresol
Concen: 5.10 ug/ml
RT: 7.384 min Scan# 1130
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:107 Resp: 88928

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.9	31.3
142	79.1	66.1	99.1

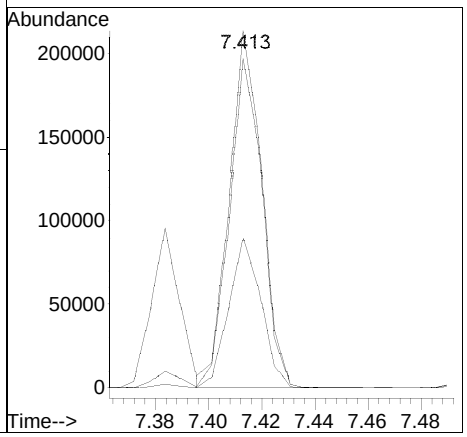


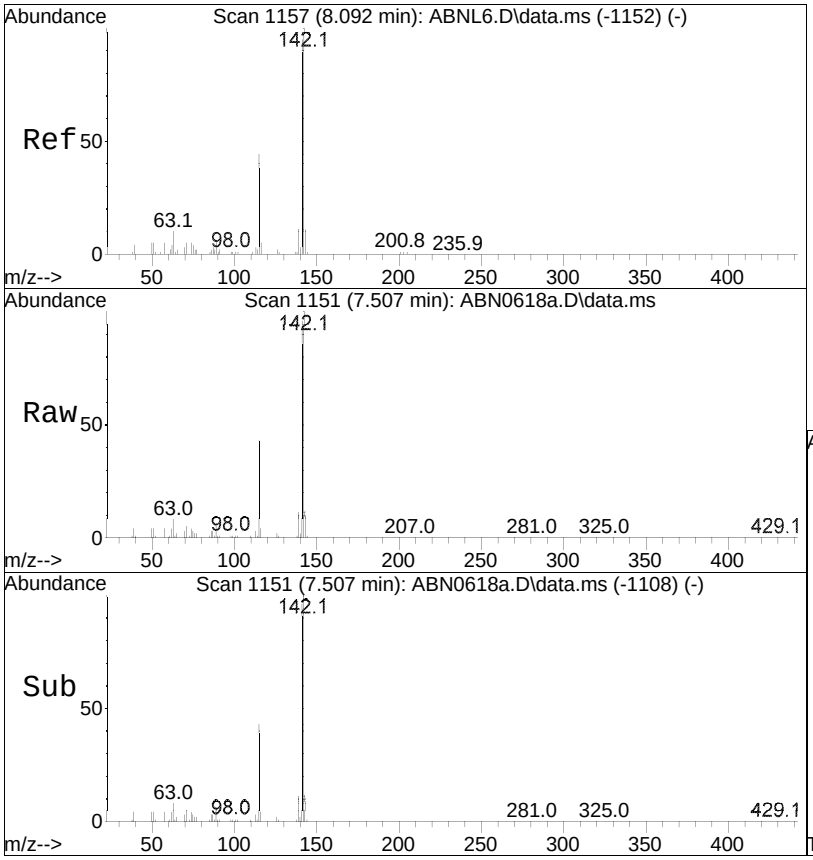


#40
2-Methylnaphthalene
Concen: 4.81 ug/ml
RT: 7.413 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:142 Resp: 182170

Ion	Ratio	Lower	Upper
142	100		
141	92.6	69.6	104.4
115	42.8	26.6	40.0#

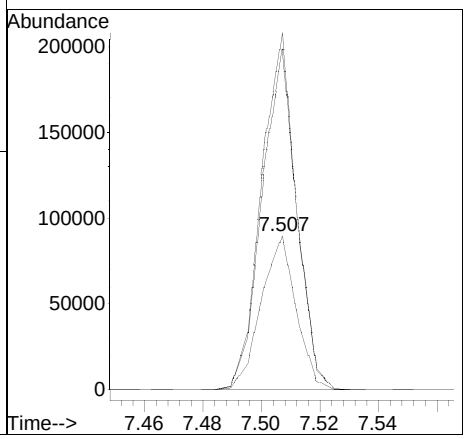


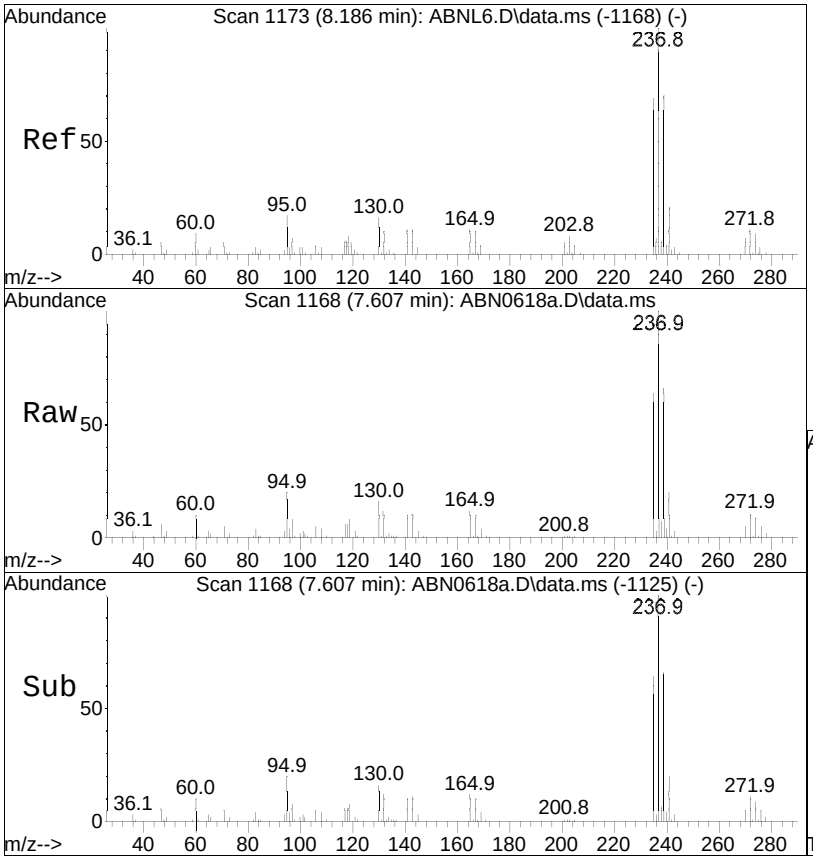


#41
1-Methylnaphthalene
Concen: 4.71 ug/ml
RT: 7.507 min Scan# 1151
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:115 Resp: 74679

Ion	Ratio	Lower	Upper
115	100		
141	219.0	207.8	311.6
142	229.1	226.8	340.2

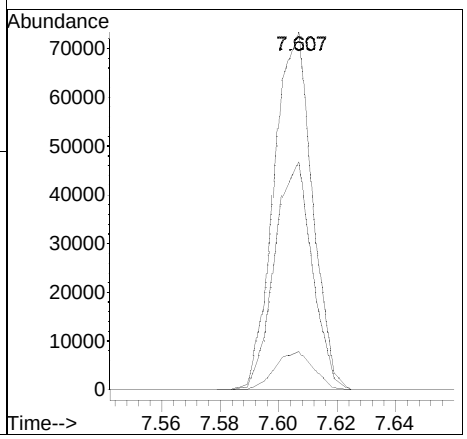


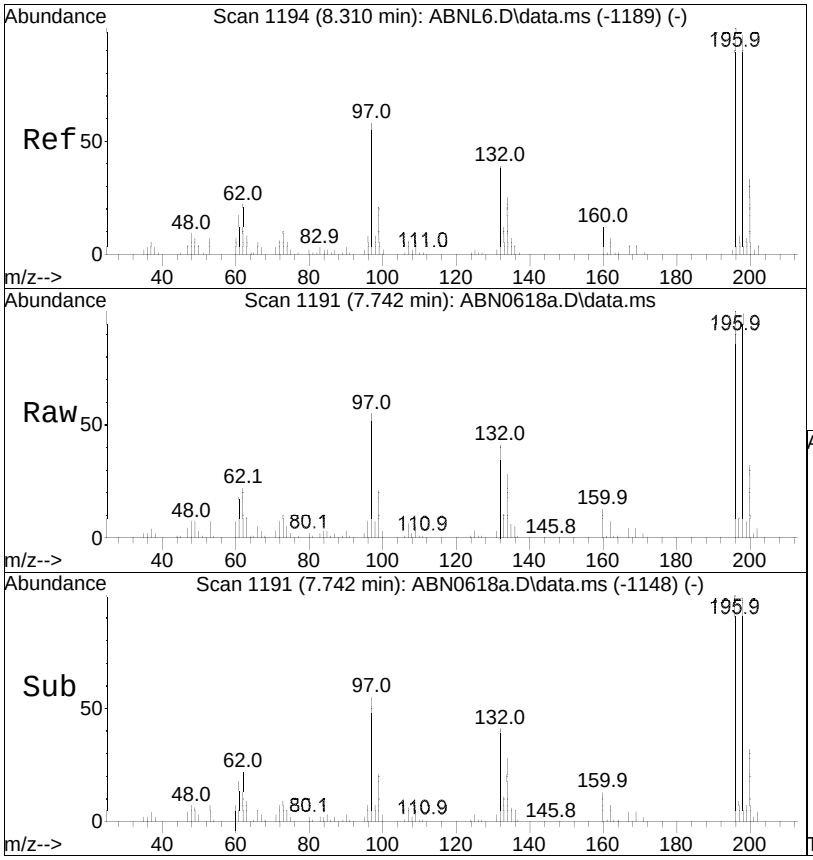


#42
Hexachlorocyclopentadiene
Concen: 4.56 ug/ml
RT: 7.607 min Scan# 1168
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:237 Resp: 66447

Ion	Ratio	Lower	Upper
237	100		
235	62.7	49.7	74.5
272	11.0	9.8	14.6

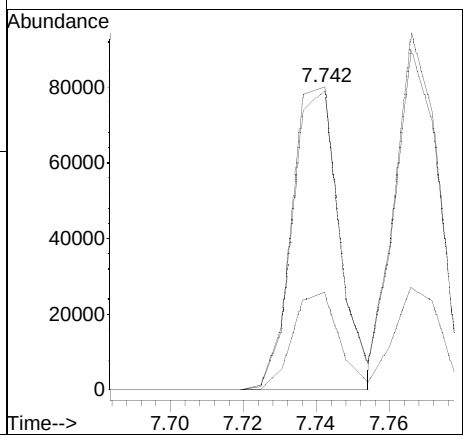


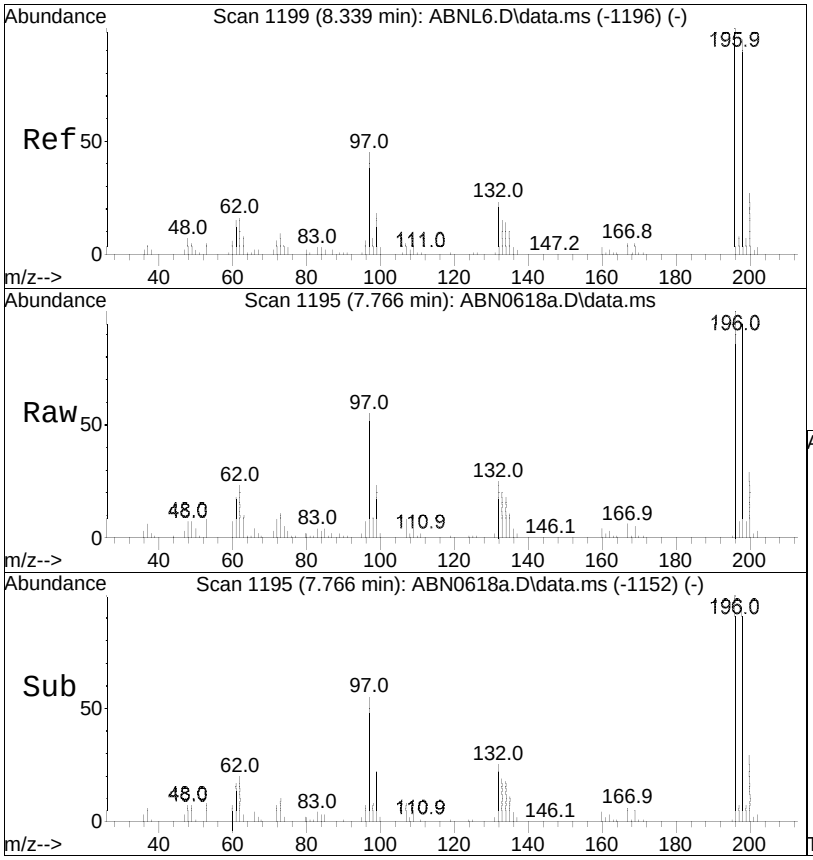


#43
2,4,6-Trichlorophenol
Concen: 5.18 ug/ml M3
RT: 7.742 min Scan# 1191
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:196 Resp: 73358

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.5	116.3
200	31.3	23.8	35.6

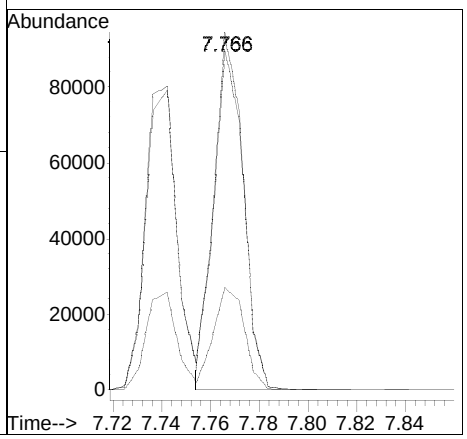


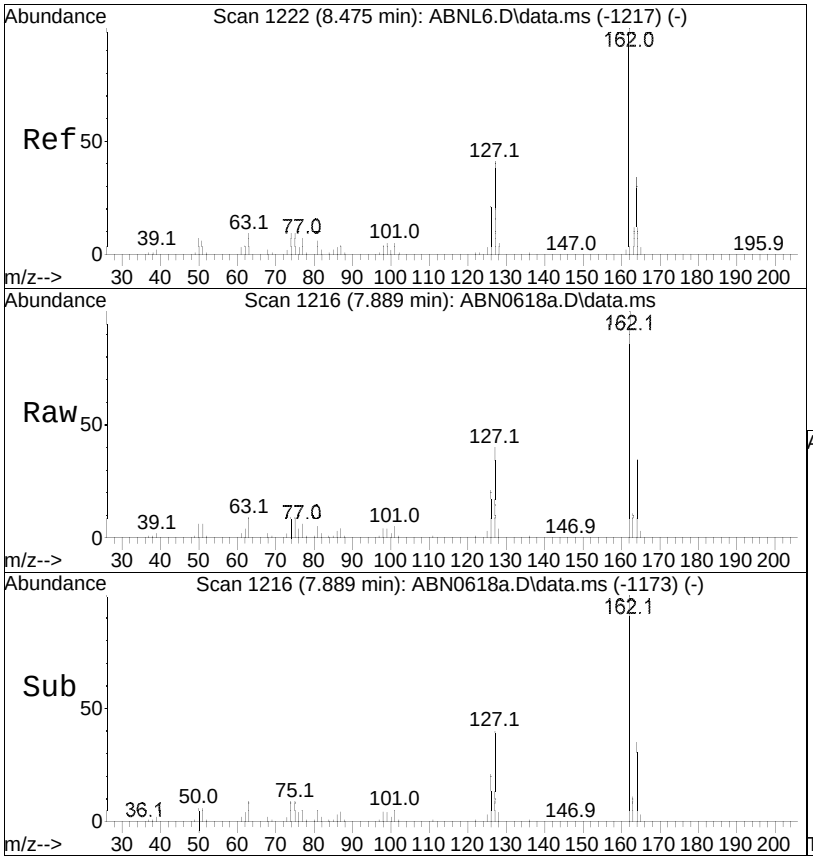


#44
2,4,5-Trichlorophenol
Concen: 5.08 ug/ml
RT: 7.766 min Scan# 1195
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:196 Resp: 78429

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.4	38.0
198	96.5	78.0	117.0

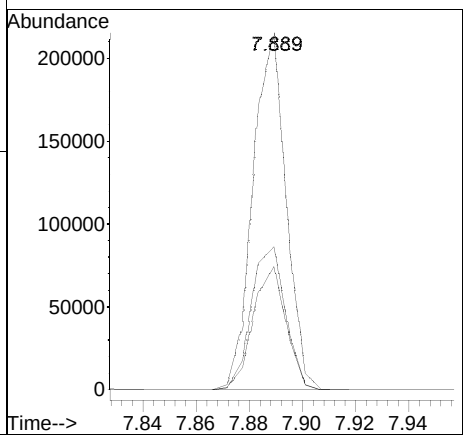


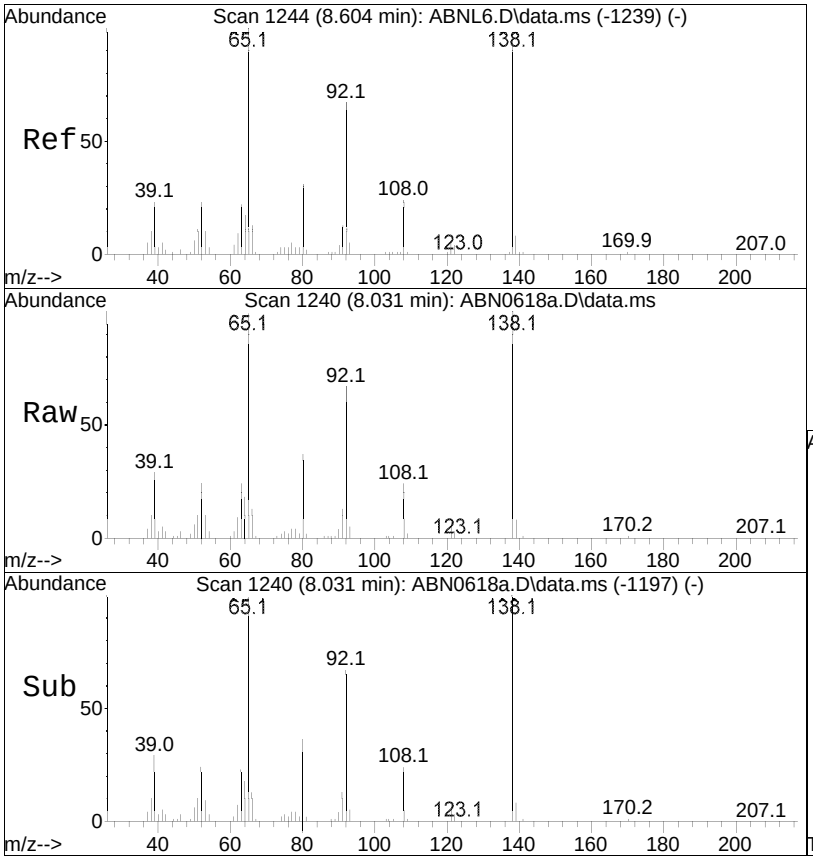


#46
2-Chloronaphthalene
Concen: 4.65 ug/ml
RT: 7.889 min Scan# 1216
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:162 Resp: 184123

Ion	Ratio	Lower	Upper
162	100		
127	41.7	32.2	48.4
164	34.6	25.7	38.5

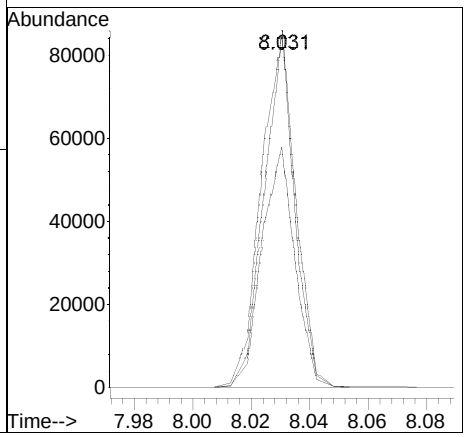


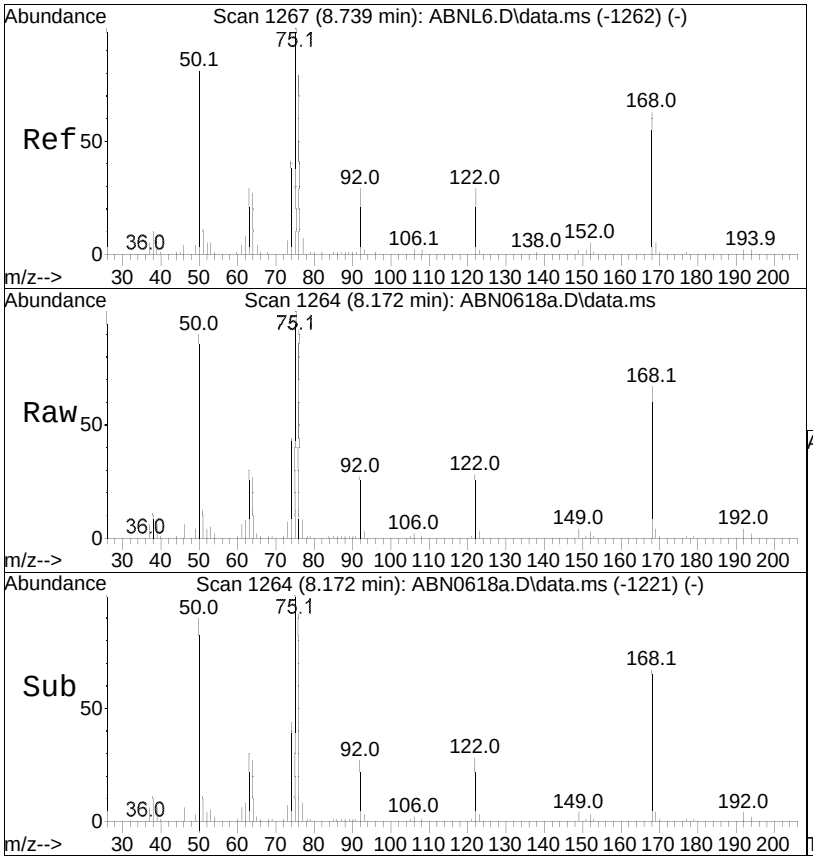


#47
2-Nitroaniline
Concen: 5.56 ug/ml
RT: 8.031 min Scan# 1240
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:138 Resp: 63783

Ion	Ratio	Lower	Upper
138	100		
92	70.6	53.5	80.3
65	104.8	86.3	129.5

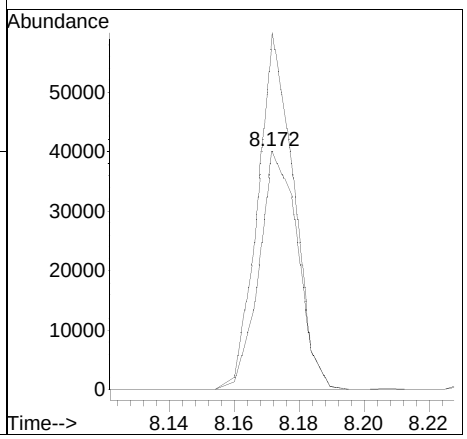


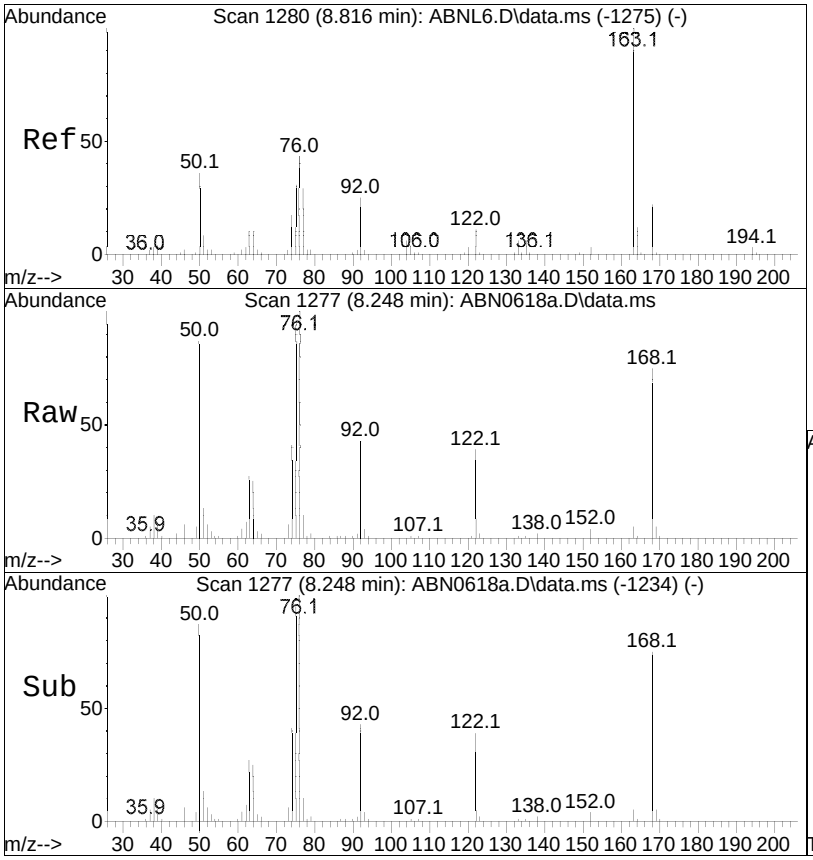


#48
1,4-Dinitrobenzene
Concen: 5.46 ug/ml
RT: 8.172 min Scan# 1264
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:168 Resp: 33172

Ion	Ratio	Lower	Upper
168	100		
75	138.8	121.8	182.8

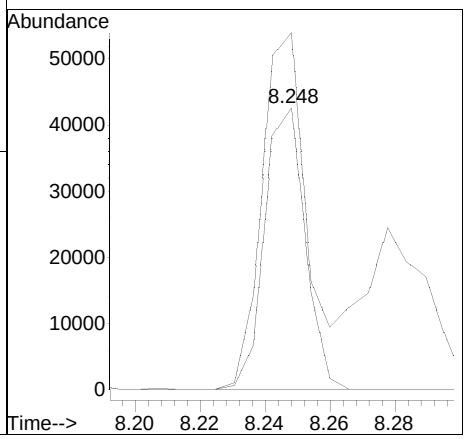


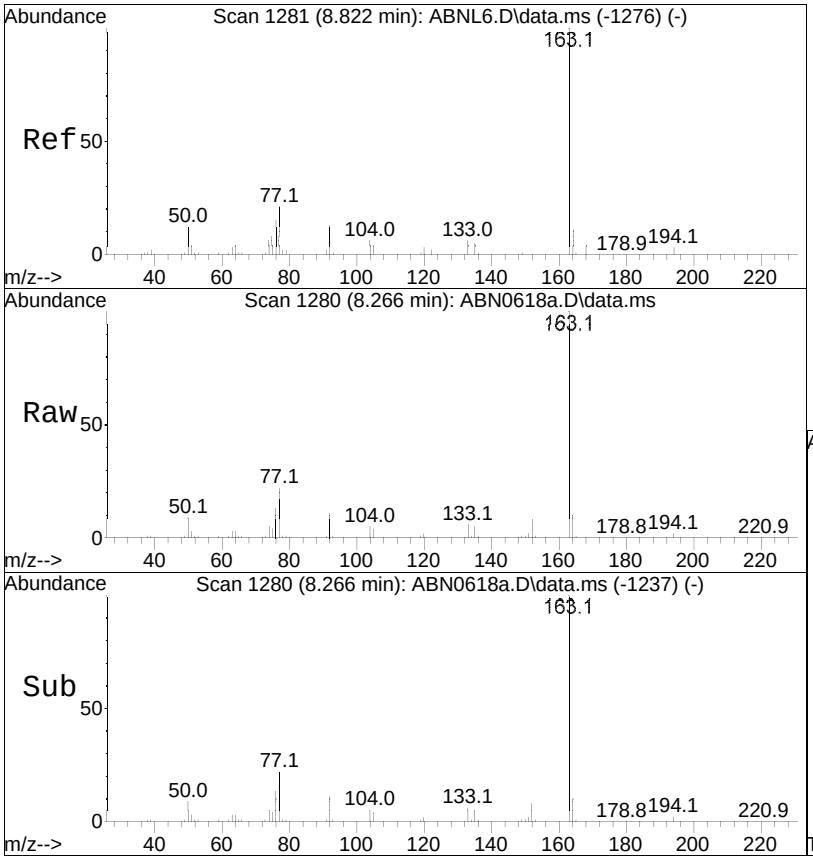


#49
1,3-Dinitrobenzene
Concen: 5.33 ug/ml
RT: 8.248 min Scan# 1277
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:168 Resp: 37000

Ion	Ratio	Lower	Upper
168	100		
75	138.9	22.7	34.1#

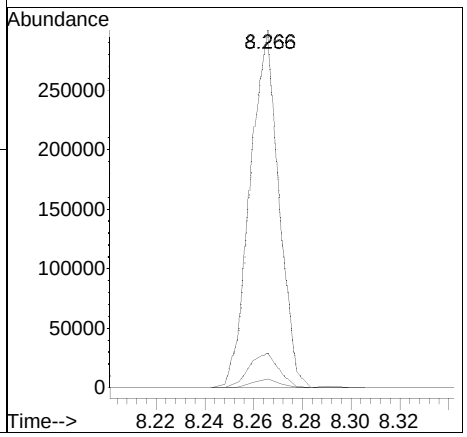


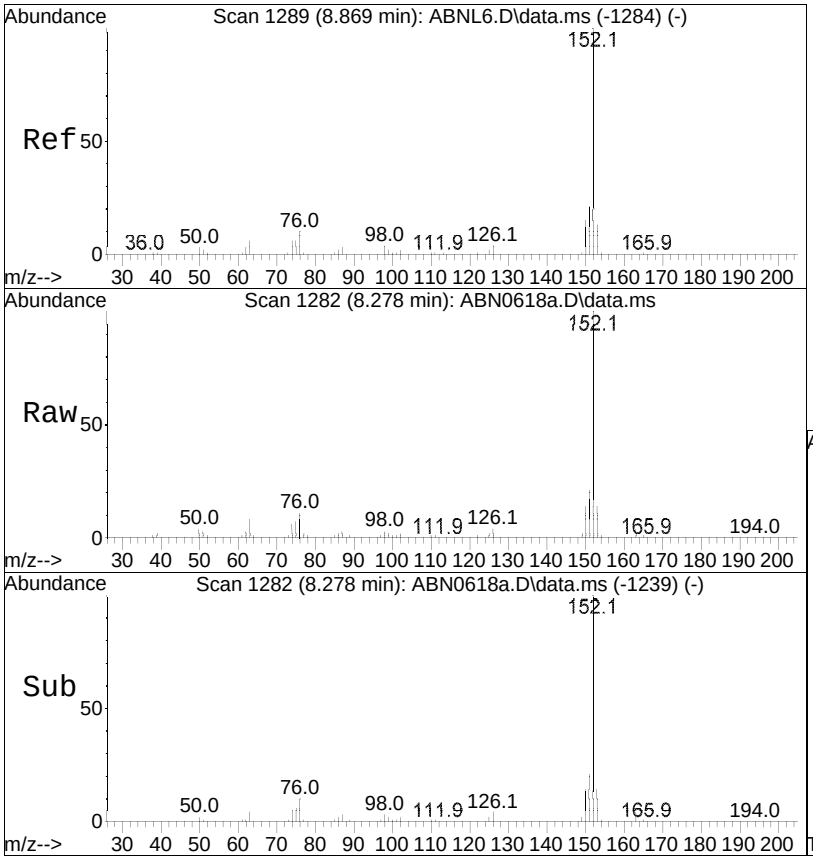


#50
Dimethyl phthalate
Concen: 4.66 ug/ml
RT: 8.266 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:163 Resp: 243988

Ion	Ratio	Lower	Upper
163	100		
194	2.4	3.5	5.3#
164	10.2	7.9	11.9

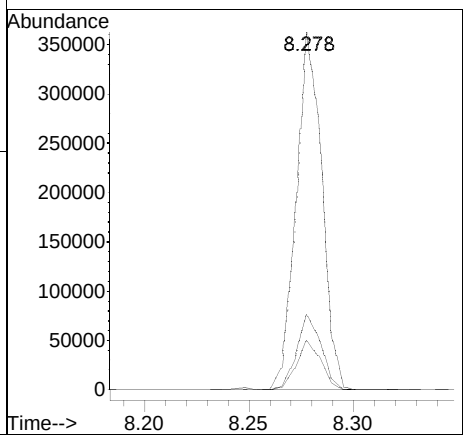


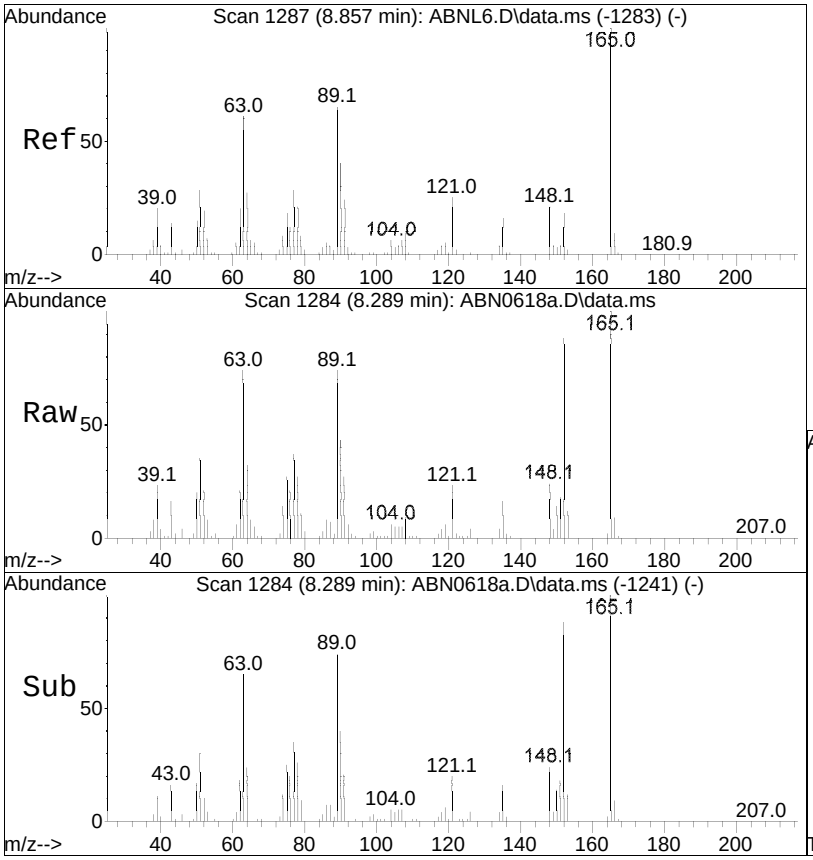


#51
Acenaphthylene
Concen: 5.00 ug/ml
RT: 8.278 min Scan# 1282
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:152 Resp: 308192

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.3	10.5	15.7

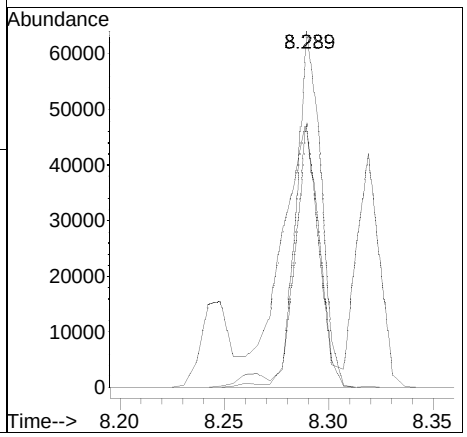


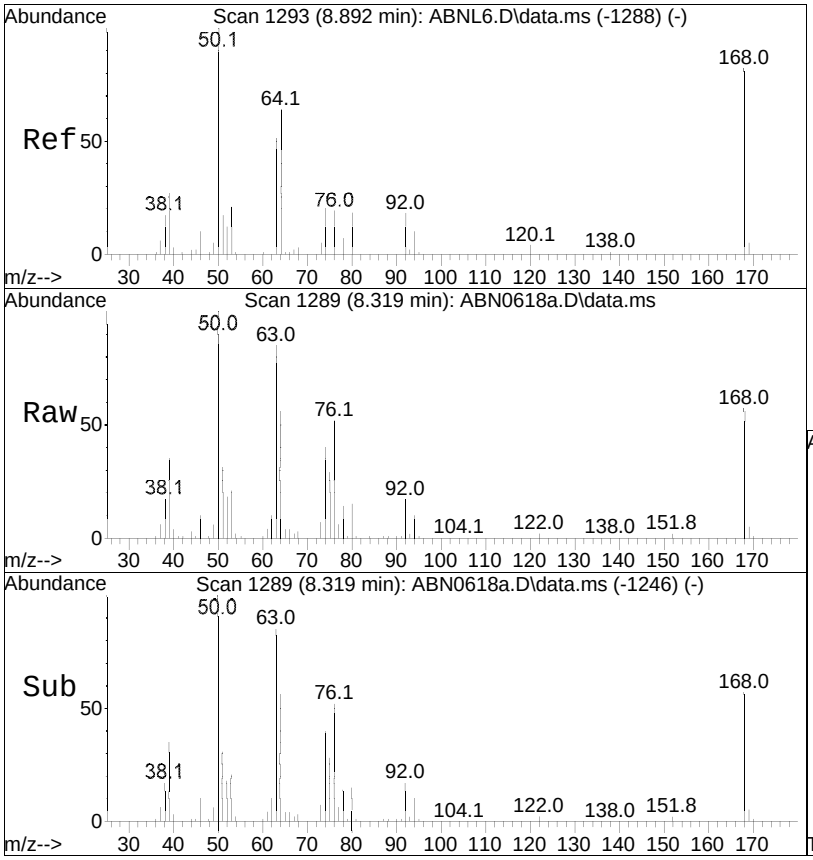


#52
2,6-Dinitrotoluene
Concen: 5.18 ug/ml
RT: 8.289 min Scan# 1284
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:165 Resp: 54507

Ion	Ratio	Lower	Upper
165	100		
89	70.3	54.2	81.2
63	107.8	64.2	96.2#

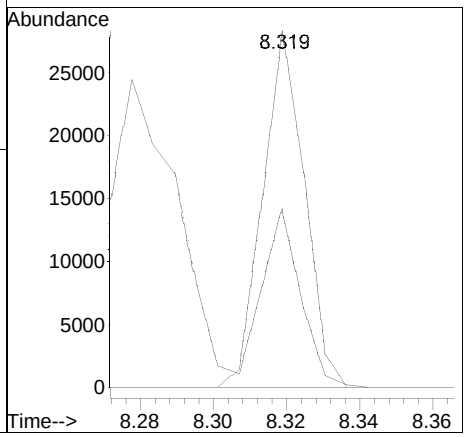


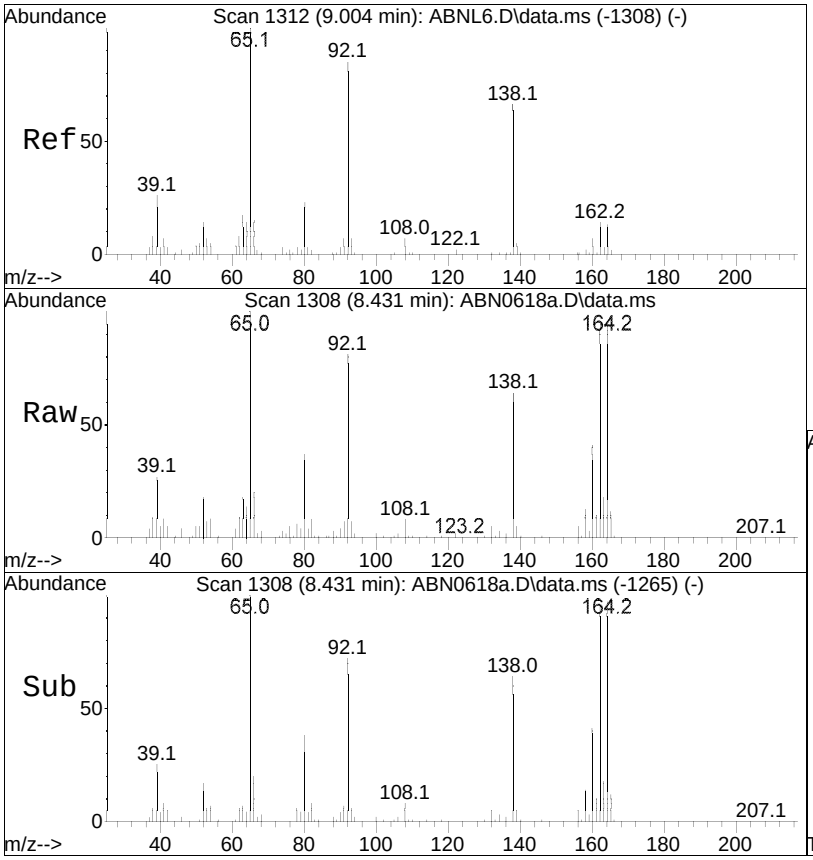


#53
1,2-Dinitrobenzene
Concen: 5.43 ug/ml
RT: 8.319 min Scan# 1289
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:168 Resp: 22433

Ion	Ratio	Lower	Upper
168	100		
75	46.0	30.9	46.3

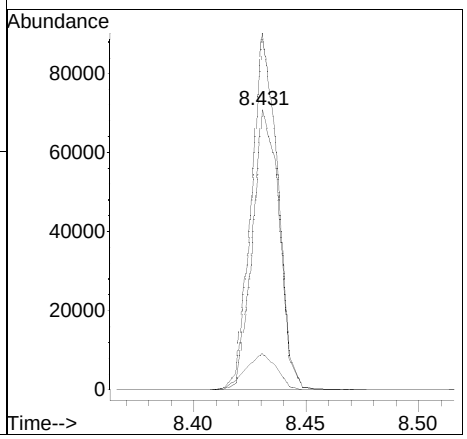


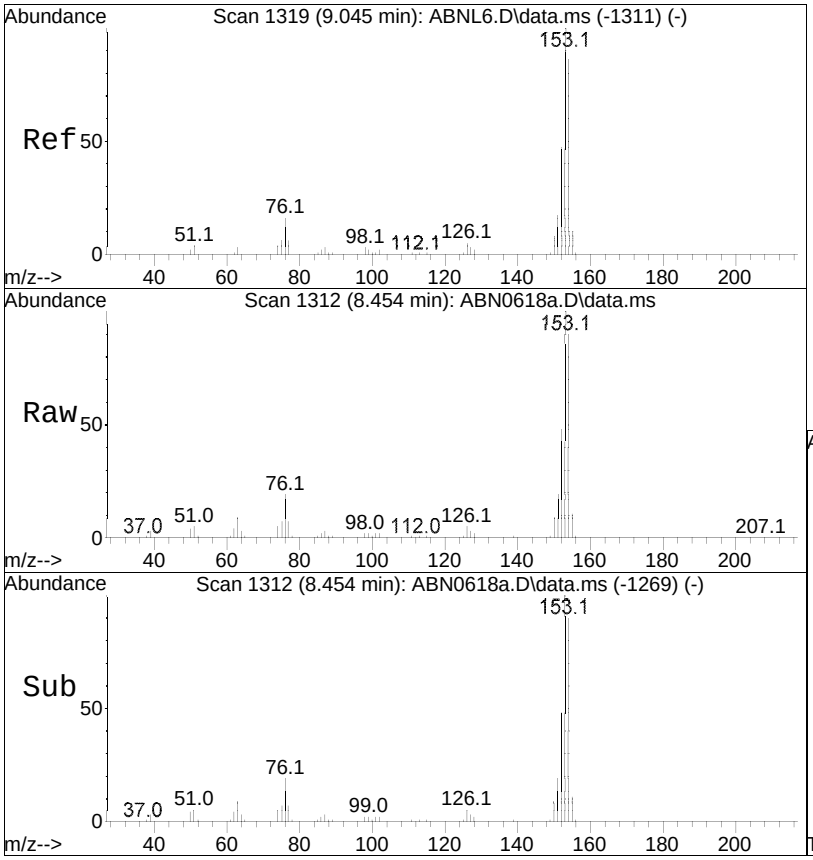


#63
3-Nitroaniline
Concen: 5.97 ug/ml
RT: 8.431 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:138 Resp: 58452

Ion	Ratio	Lower	Upper
138	100		
92	124.6	93.4	140.2
108	15.4	9.5	14.3#

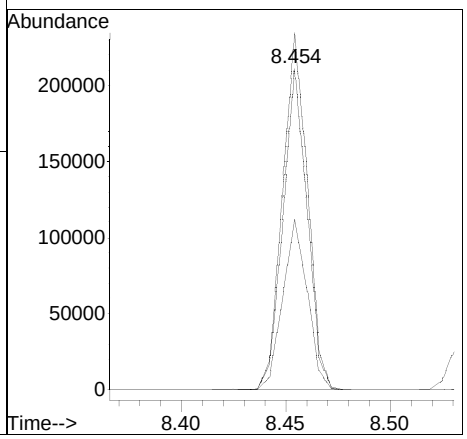


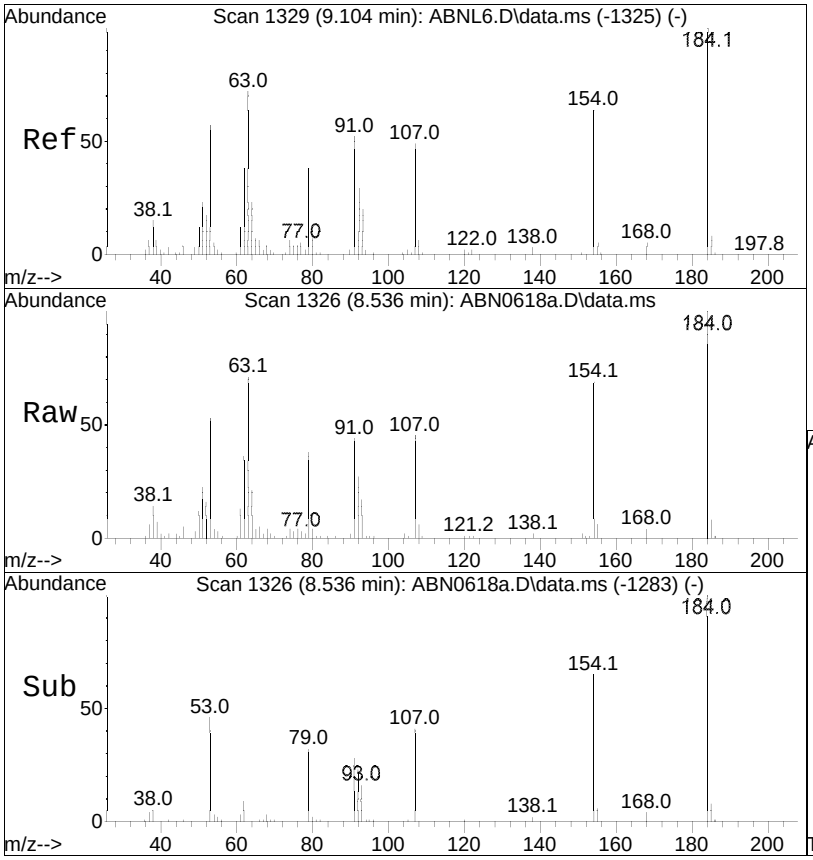


#64
Acenaphthene
Concen: 5.14 ug/ml
RT: 8.454 min Scan# 1312
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:154 Resp: 170294

Ion	Ratio	Lower	Upper
154	100		
153	114.1	85.3	127.9
152	54.0	41.4	62.0

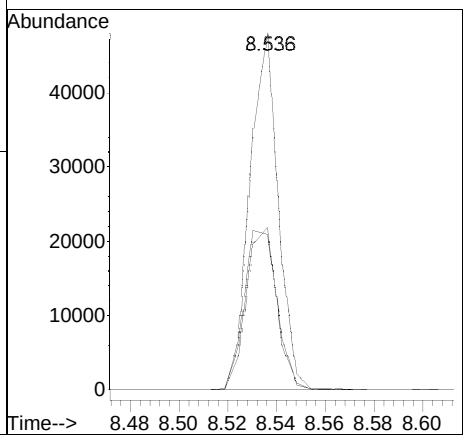


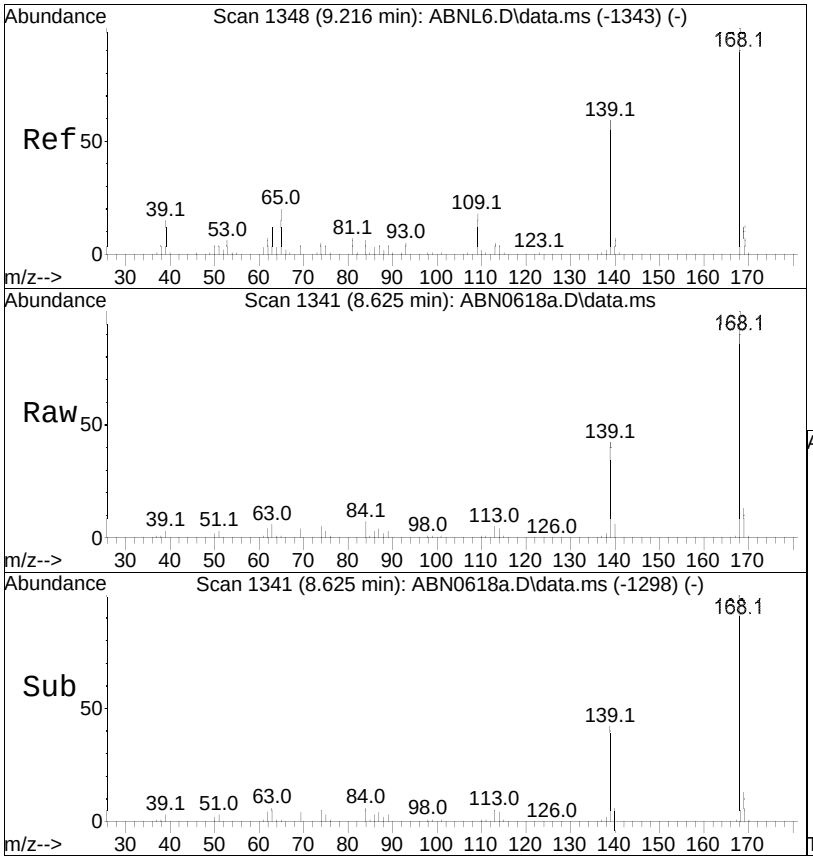


#65
2,4-Dinitrophenol
Concen: 6.20 ug/ml
RT: 8.536 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:184 Resp: 38678

Ion	Ratio	Lower	Upper
184	100		
107	49.5	37.7	56.5
91	52.1	46.3	69.5

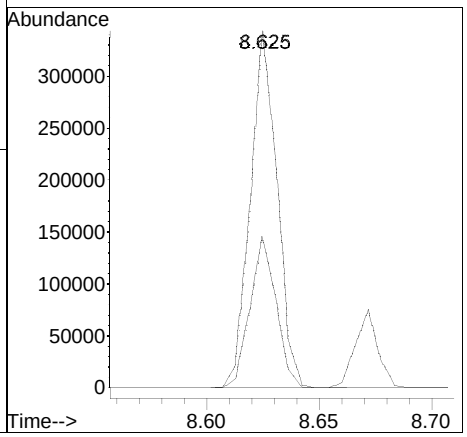


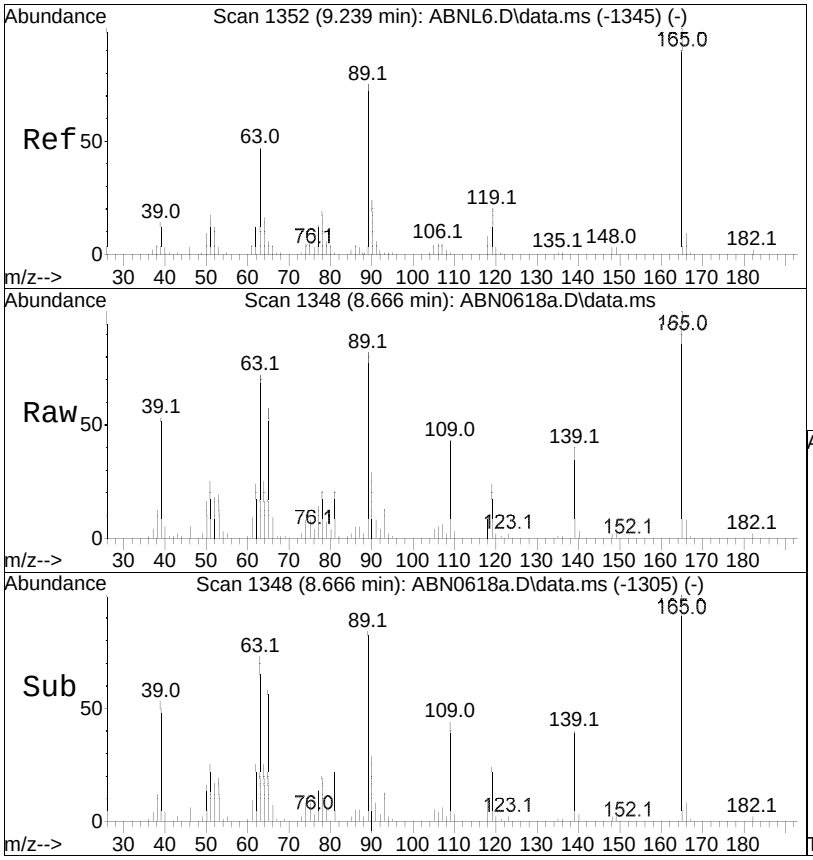


#66
Dibenzofuran
Concen: 4.85 ug/ml
RT: 8.625 min Scan# 1341
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:168 Resp: 281319

Ion	Ratio	Lower	Upper
168	100		
139	41.5	31.4	47.2

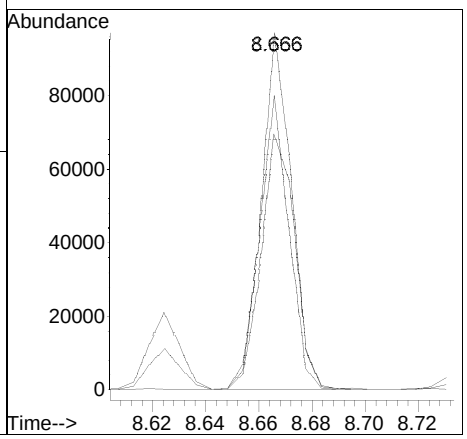


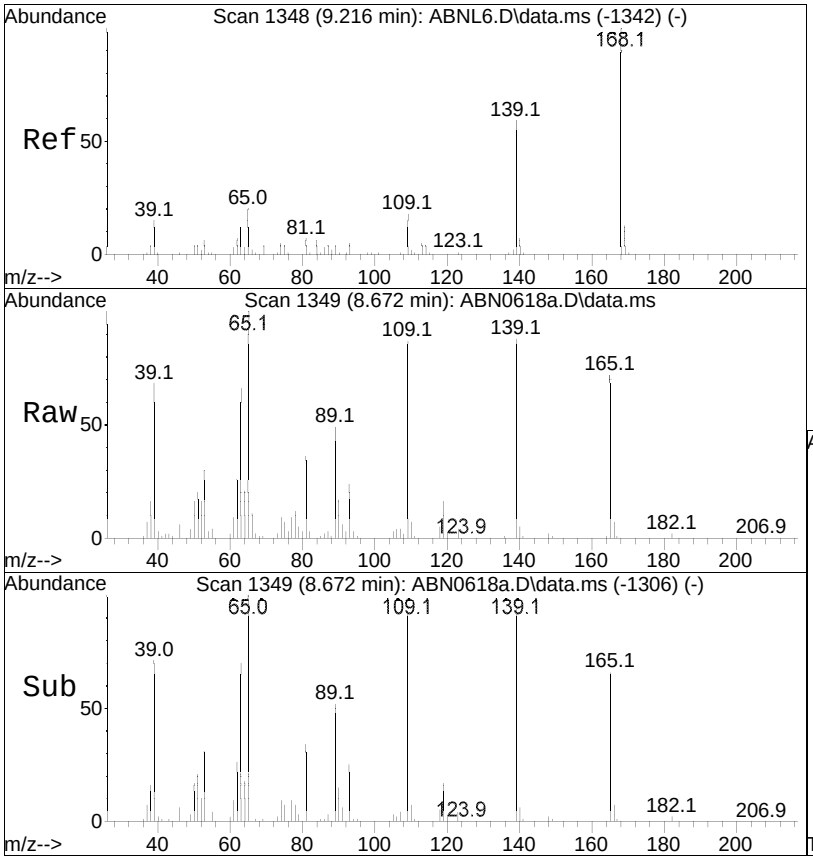


#67
2,4-Dinitrotoluene
Concen: 5.68 ug/ml
RT: 8.666 min Scan# 1348
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:165 Resp: 75688

Ion	Ratio	Lower	Upper
165	100		
89	80.9	72.0	108.0
63	80.2	52.7	79.1#

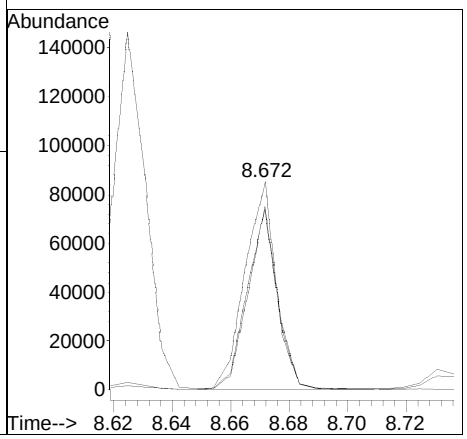


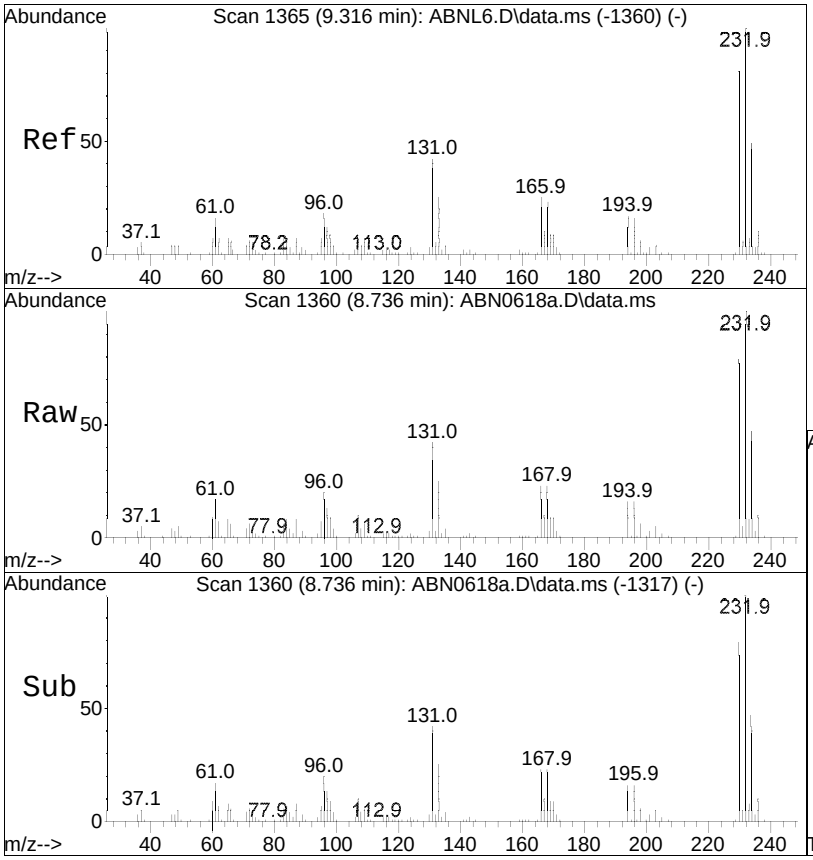


#68
4-Nitrophenol
Concen: 6.03 ug/ml
RT: 8.672 min Scan# 1349
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 65 Resp: 63348

Ion	Ratio	Lower	Upper
65	100		
109	83.5	47.4	71.2#
139	82.6	76.6	115.0

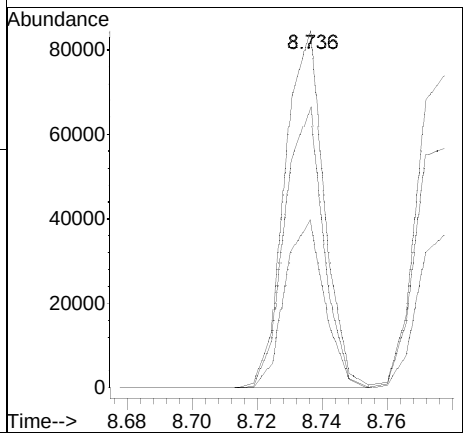


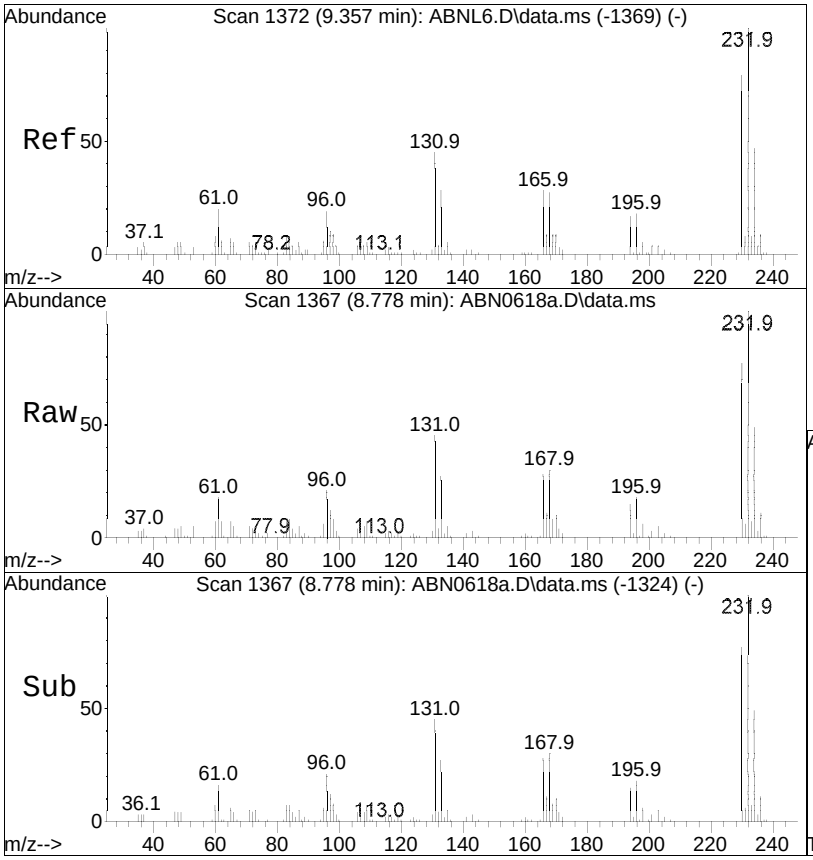


#69
2,3,5,6-Tetrachlorophenol
Concen: 6.03 ug/ml M3
RT: 8.736 min Scan# 1360
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:232 Resp: 71137

Ion	Ratio	Lower	Upper
232	100		
230	77.5	64.2	96.4
234	47.1	38.1	57.1

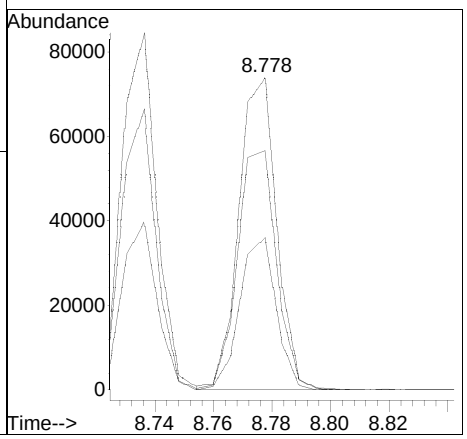


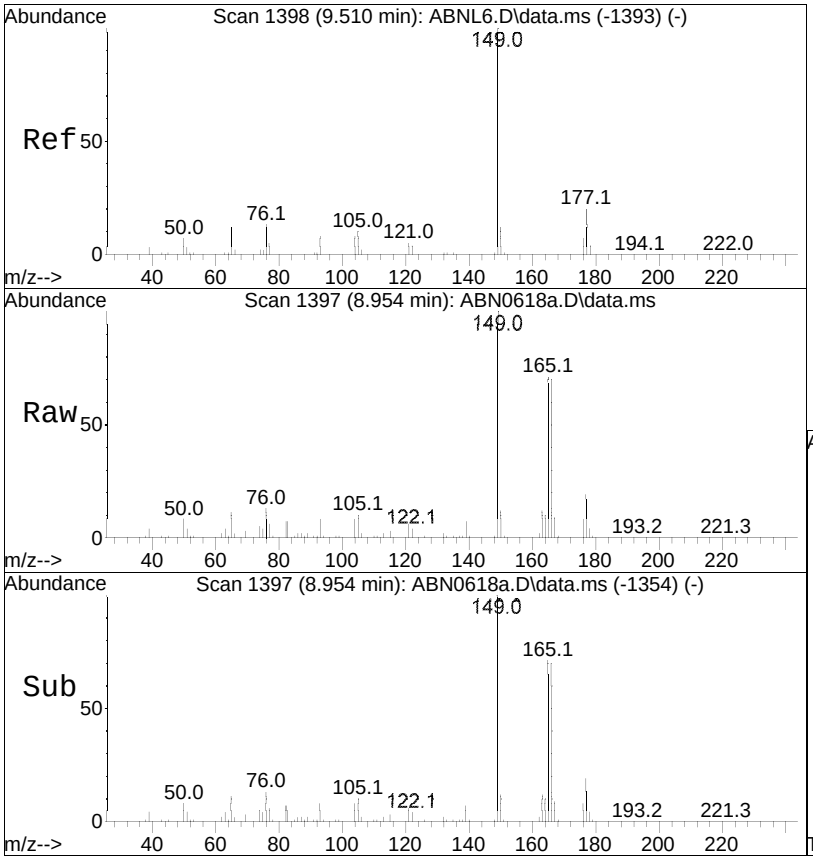


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.73 ug/ml
RT: 8.778 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:232 Resp: 66400

Ion	Ratio	Lower	Upper
232	100		
230	79.2	61.8	92.8
234	47.3	36.2	54.2

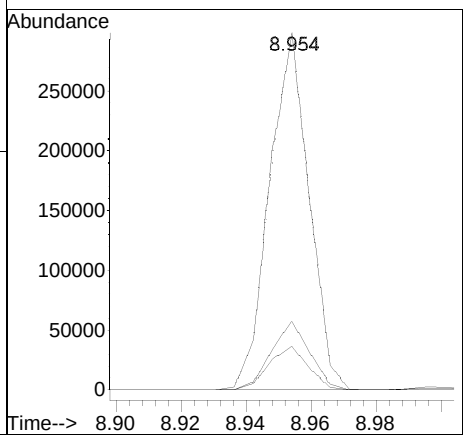


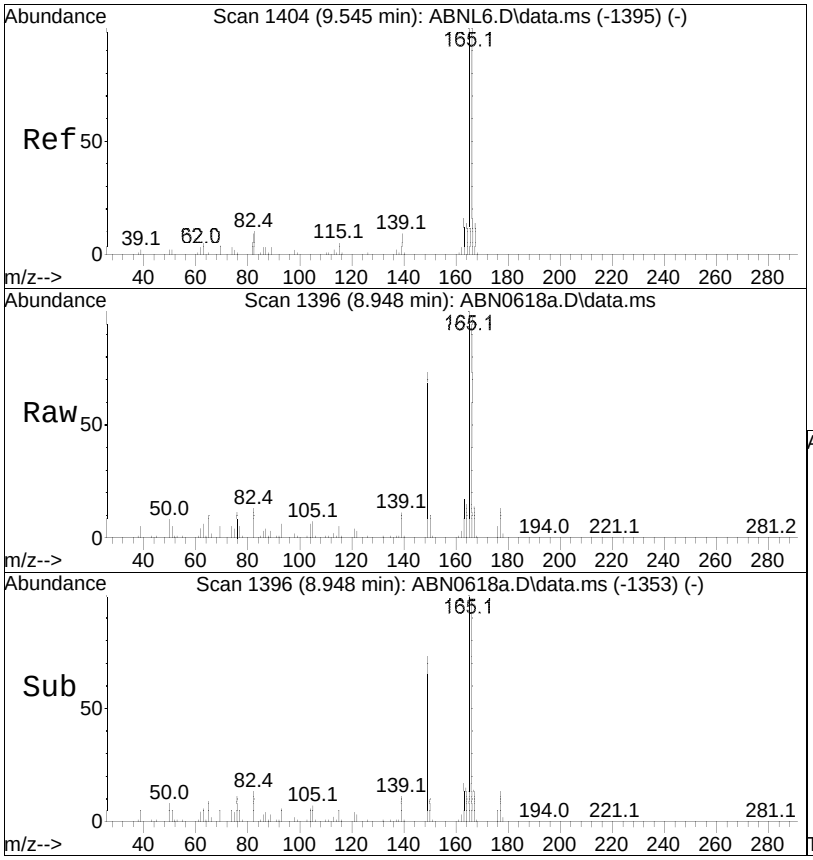


#71
Diethyl phthalate
Concen: 5.21 ug/ml
RT: 8.954 min Scan# 1397
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:149 Resp: 251294

Ion	Ratio	Lower	Upper
149	100		
177	18.7	16.1	24.1
150	12.3	9.4	14.2

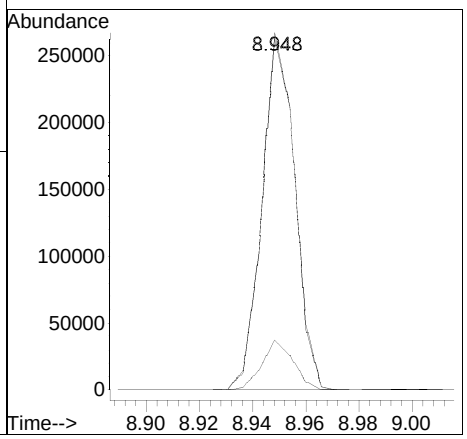


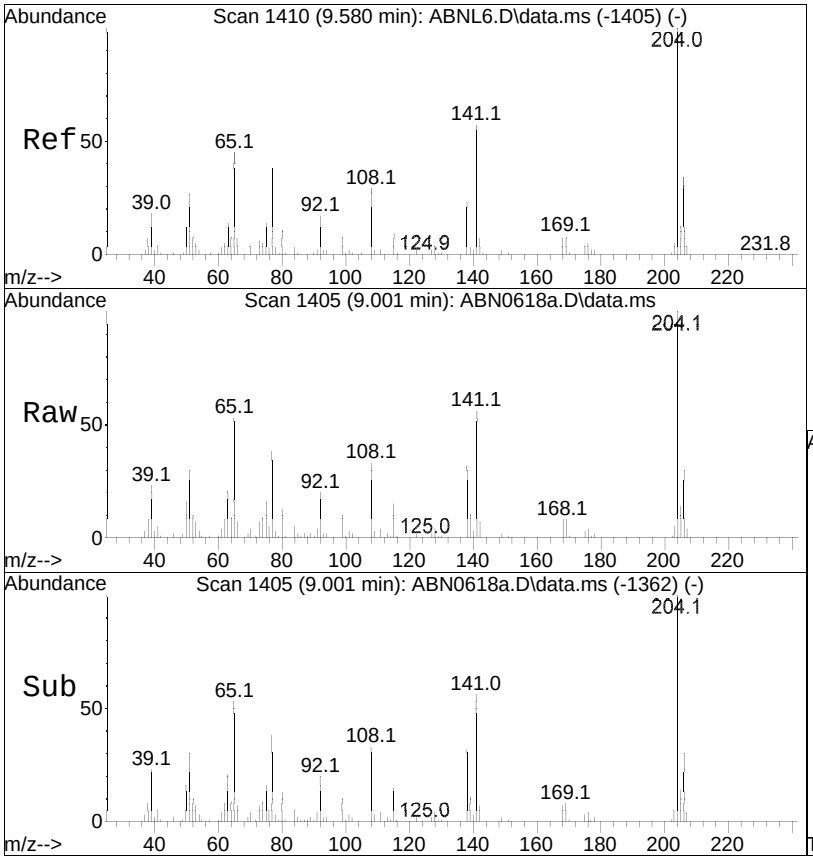


#72
Fluorene
Concen: 4.96 ug/ml
RT: 8.948 min Scan# 1396
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:166 Resp: 226047

Ion	Ratio	Lower	Upper
166	100		
165	100.6	76.2	114.2
167	13.5	10.6	15.8

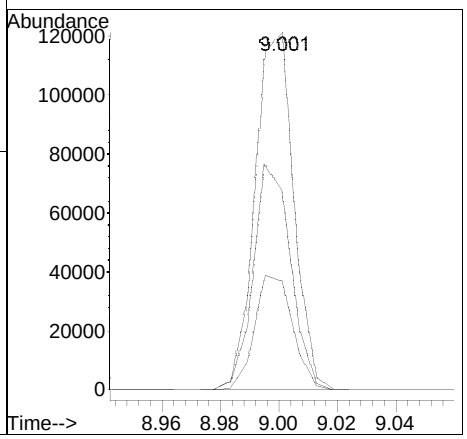


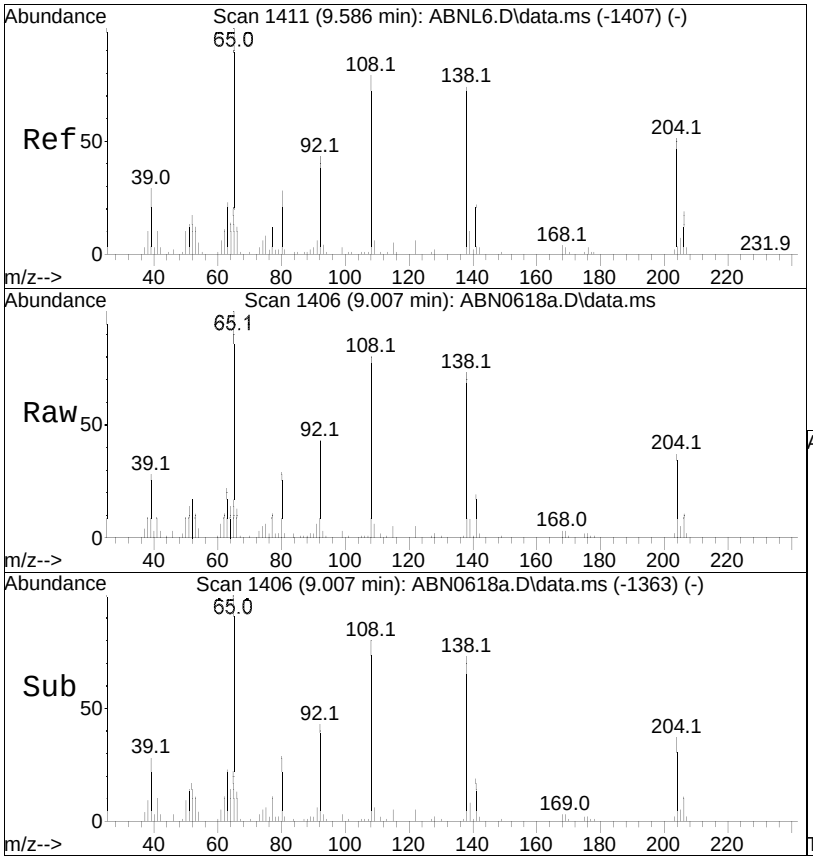


#73
4-Chlorophenyl phenyl ether
Concen: 4.62 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:204 Resp: 110713

Ion	Ratio	Lower	Upper
204	100		
206	31.8	25.8	38.6
141	61.2	53.6	80.4

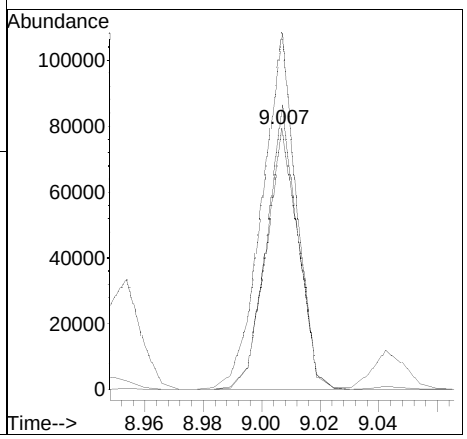


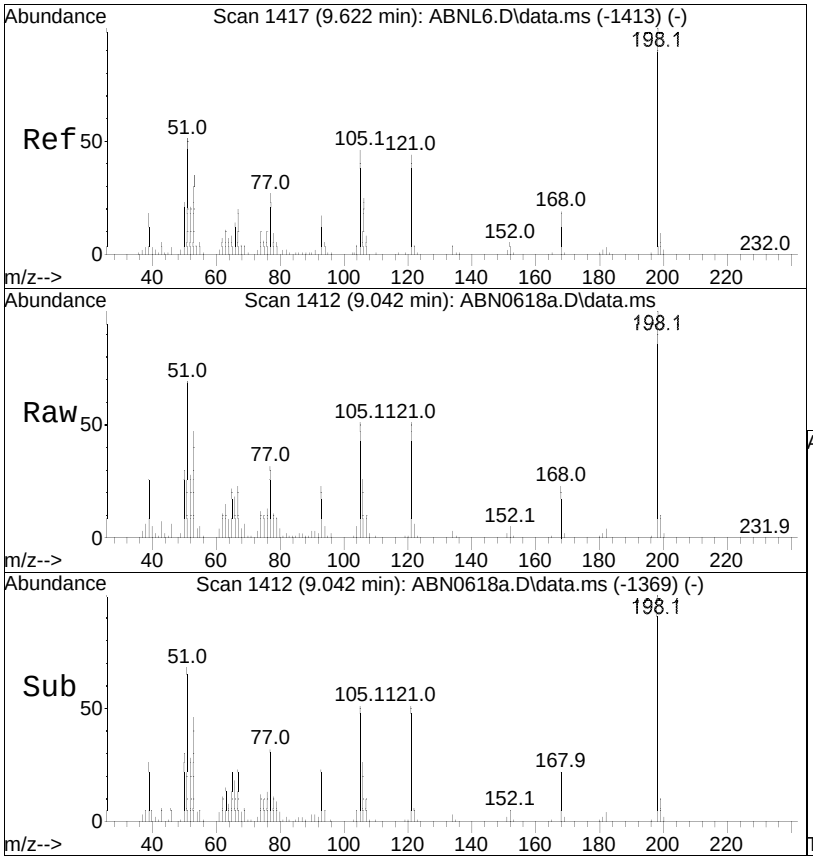


#74
4-Nitroaniline
Concen: 6.38 ug/ml
RT: 9.007 min Scan# 1406
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:138 Resp: 61203

Ion	Ratio	Lower	Upper
138	100		
108	104.2	52.1	78.1#
65	143.6	115.0	172.6

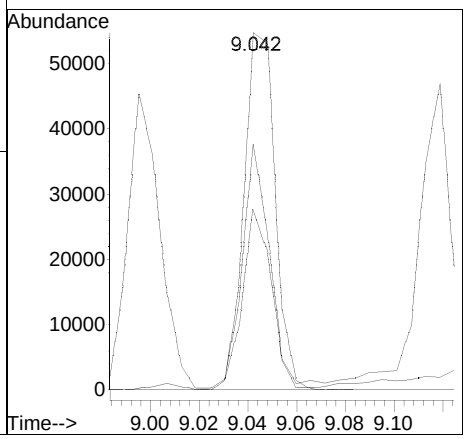


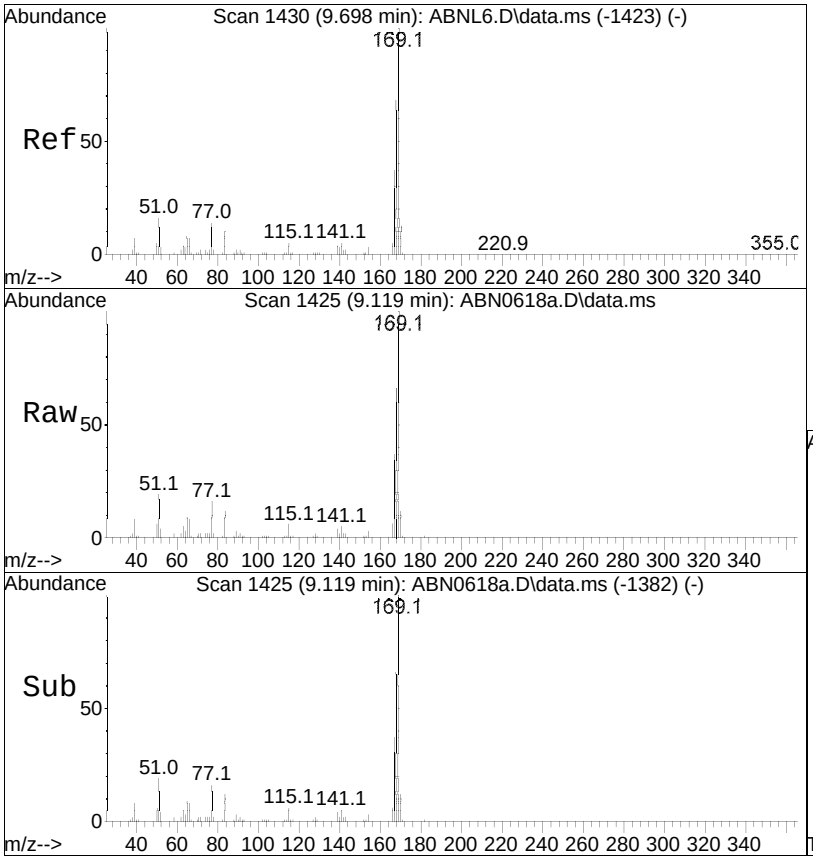


#75
4,6-Dinitro-o-cresol
Concen: 6.54 ug/ml
RT: 9.042 min Scan# 1412
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:198 Resp: 49135

Ion	Ratio	Lower	Upper
198	100		
51	60.9	76.0	114.0#
105	47.1	45.6	68.4

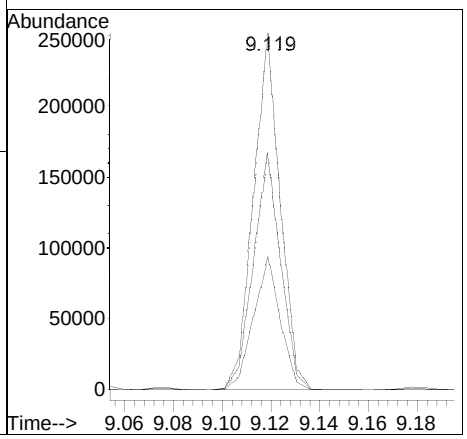


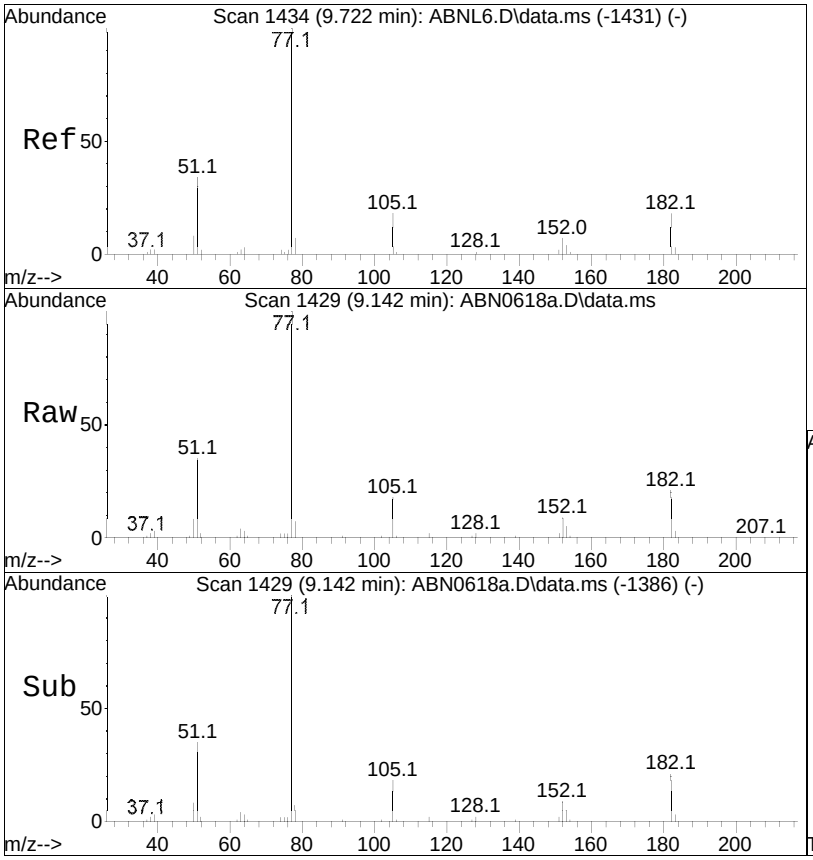


#76
NDPA/DPA
Concen: 5.08 ug/ml
RT: 9.119 min Scan# 1425
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:169 Resp: 190604

Ion	Ratio	Lower	Upper
169	100		
168	67.8	54.0	81.0
167	37.6	28.6	42.8

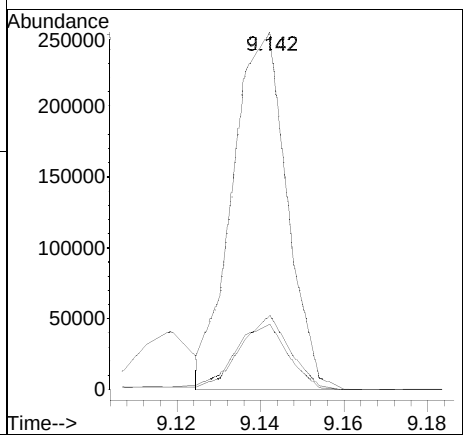


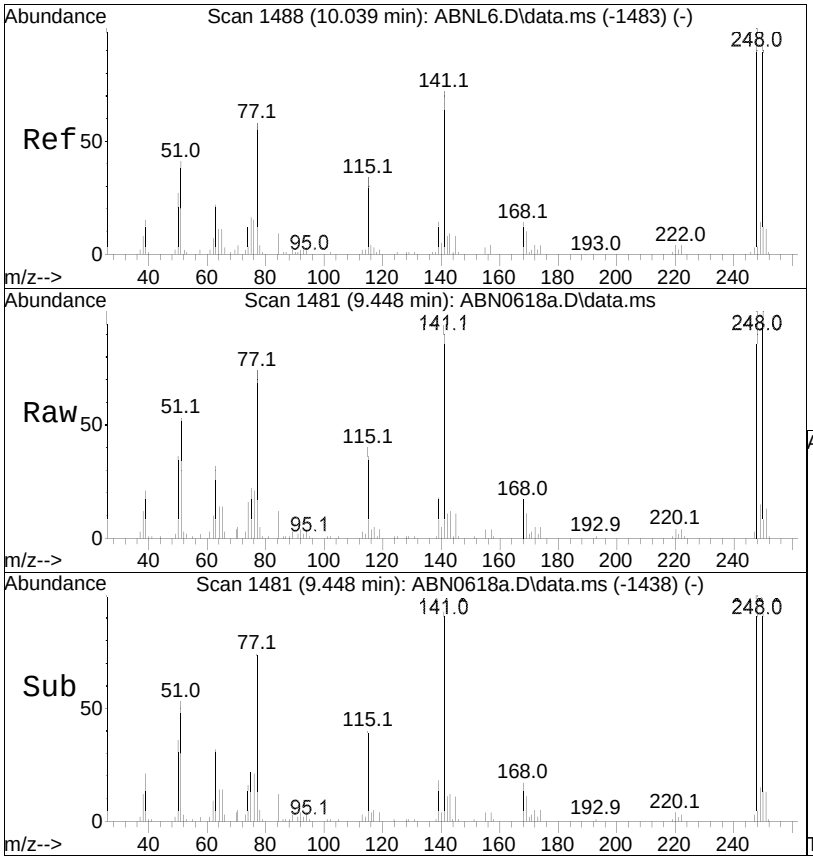


#77
Azobenzene
Concen: 4.70 ug/ml M3
RT: 9.142 min Scan# 1429
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion: 77 Resp: 224668

Ion	Ratio	Lower	Upper
77	100		
182	19.4	17.4	26.2
105	20.4	15.4	23.2

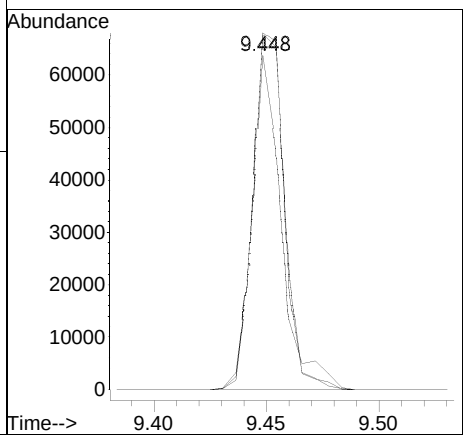


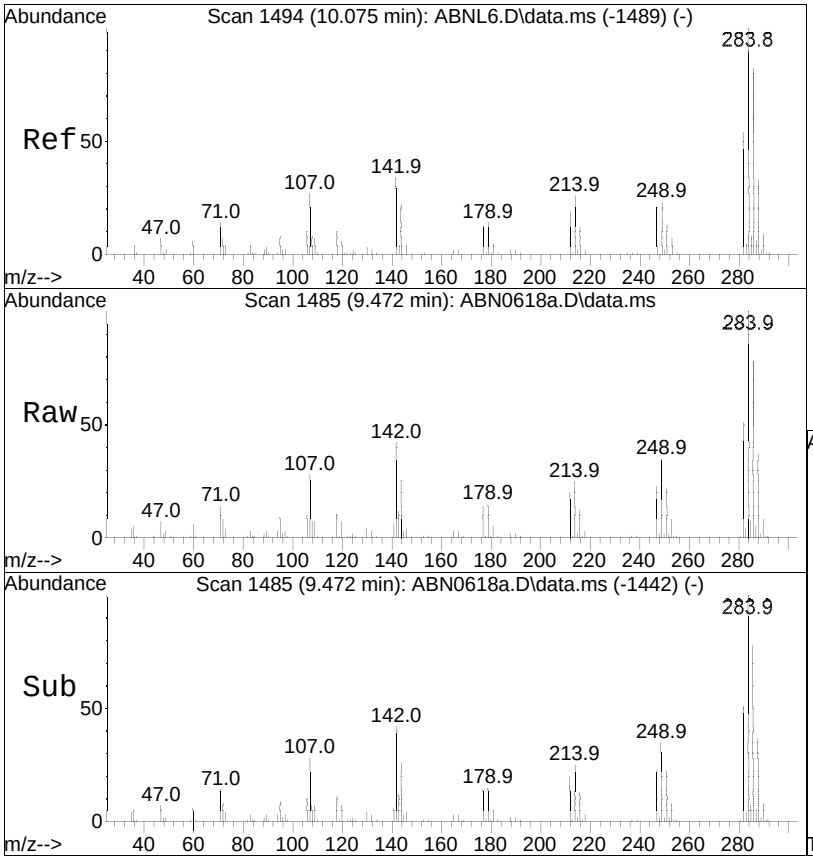


#79
4-Bromophenyl phenyl ether
Concen: 4.59 ug/ml
RT: 9.448 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:248 Resp: 65560

Ion	Ratio	Lower	Upper
248	100		
141	88.2	76.6	114.8
250	100.6	77.3	115.9

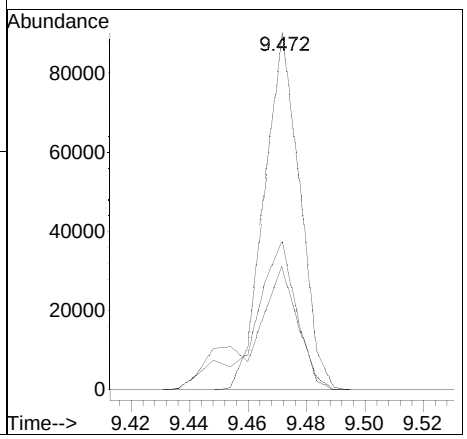


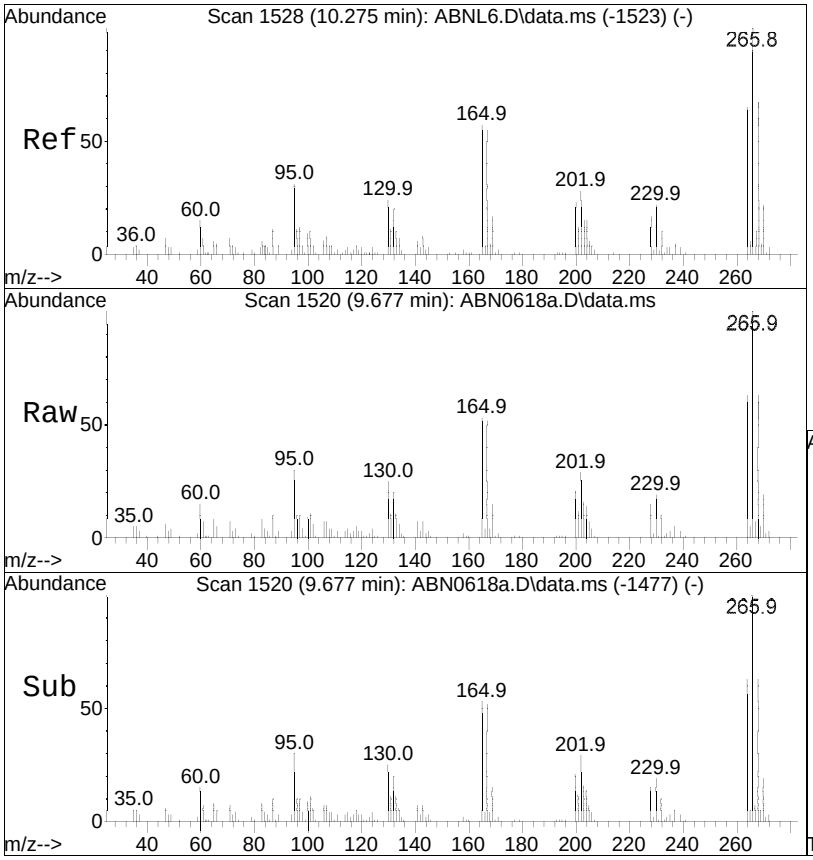


#80
Hexachlorobenzene
Concen: 4.62 ug/ml
RT: 9.472 min Scan# 1485
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:284 Resp: 76418

Ion	Ratio	Lower	Upper
284	100		
142	50.8	41.9	62.9
249	47.3	24.1	36.1#

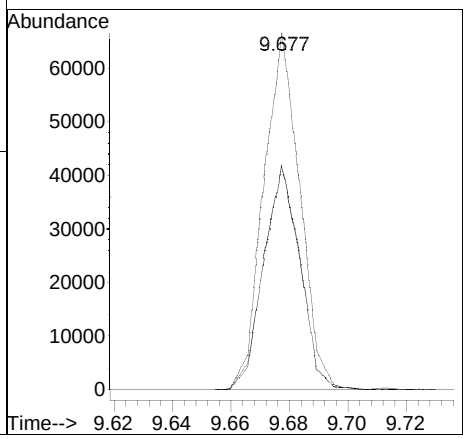


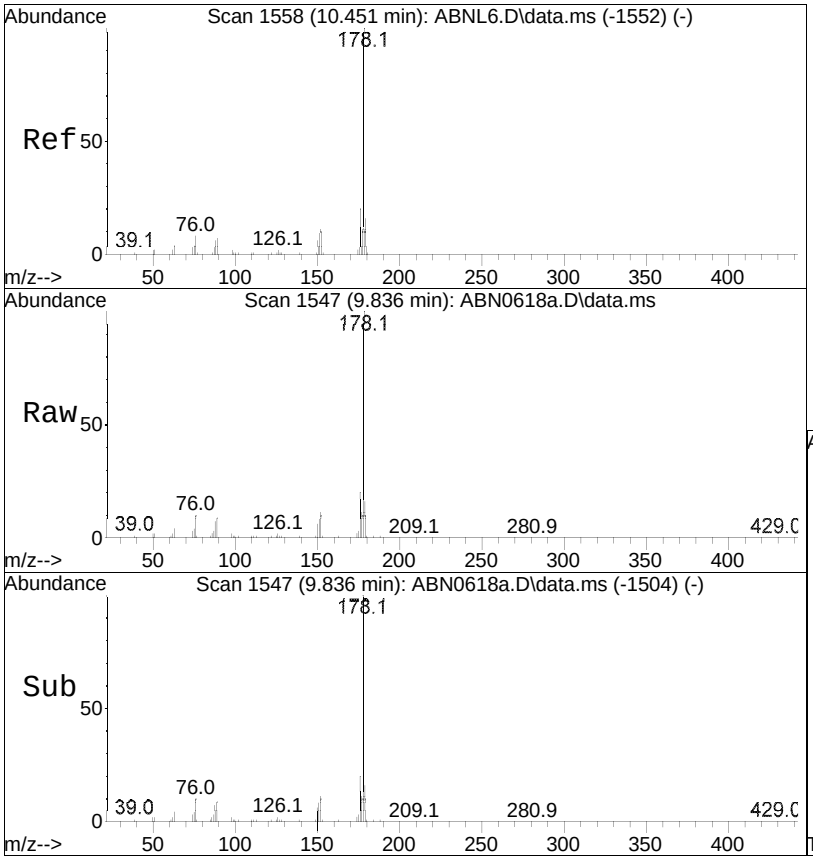


#81
Pentachlorophenol
Concen: 5.91 ug/ml
RT: 9.677 min Scan# 1520
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:266 Resp: 56986

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.7	74.5
268	63.4	50.5	75.7

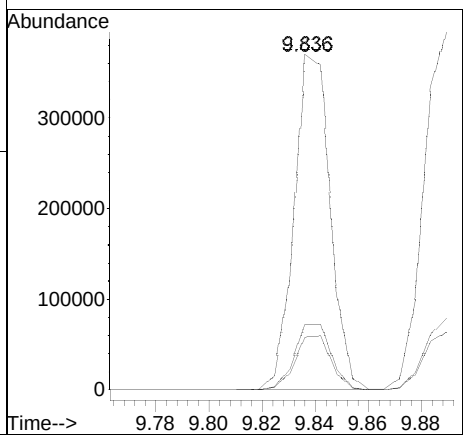


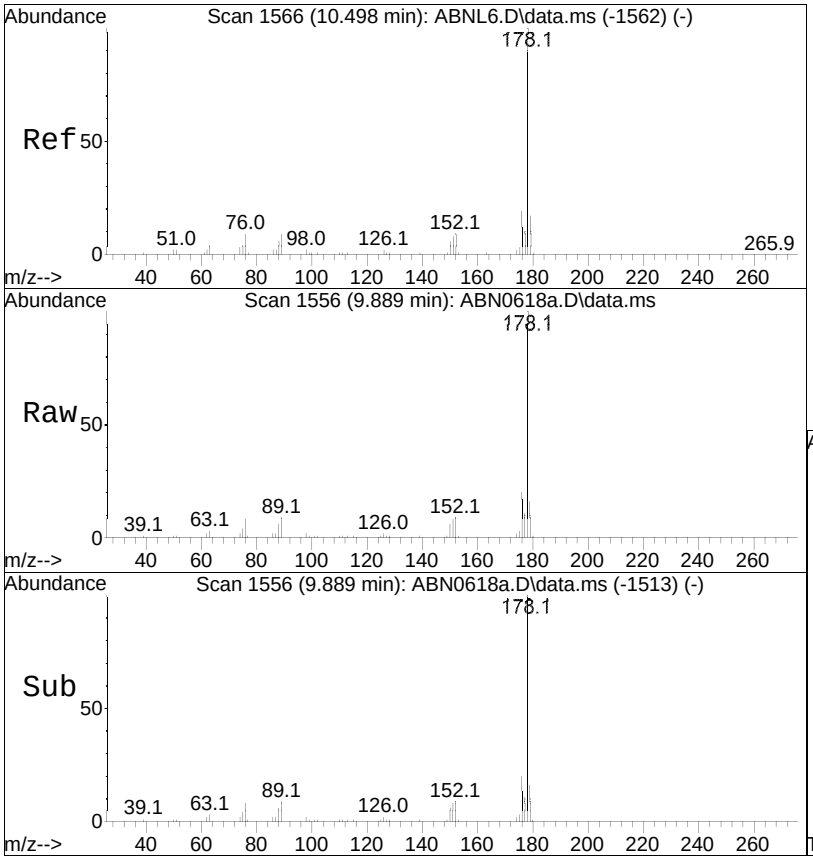


#88
Phenanthrene
Concen: 5.05 ug/ml M3
RT: 9.836 min Scan# 1547
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:178 Resp: 347357

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.2
176	20.0	15.4	23.2

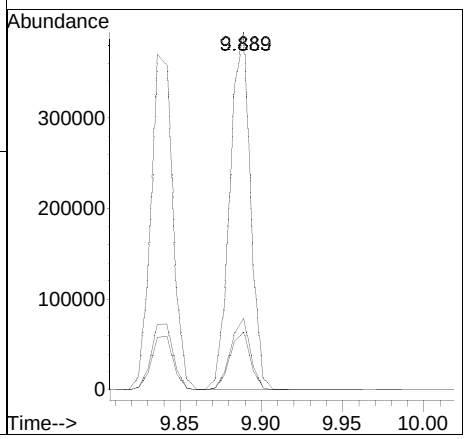


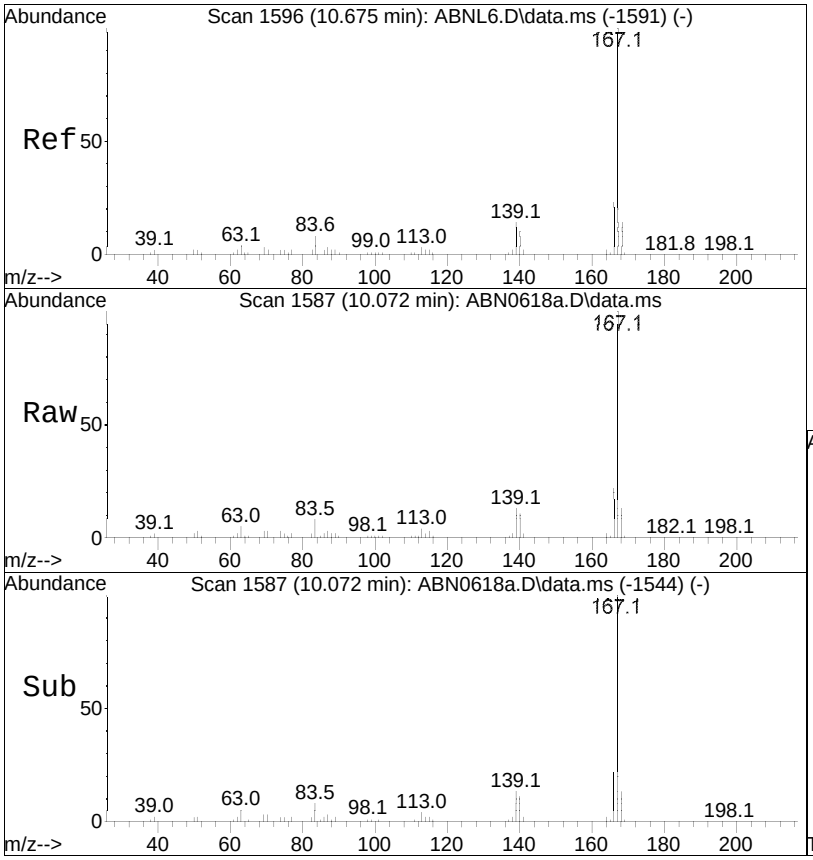


#89
Anthracene
Concen: 5.13 ug/ml
RT: 9.889 min Scan# 1556
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:178 Resp: 349089

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.0	18.0
176	19.2	14.6	22.0

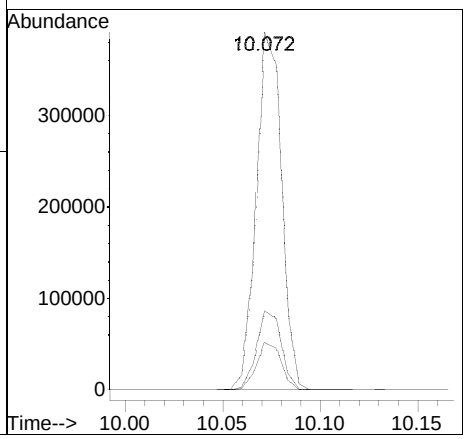


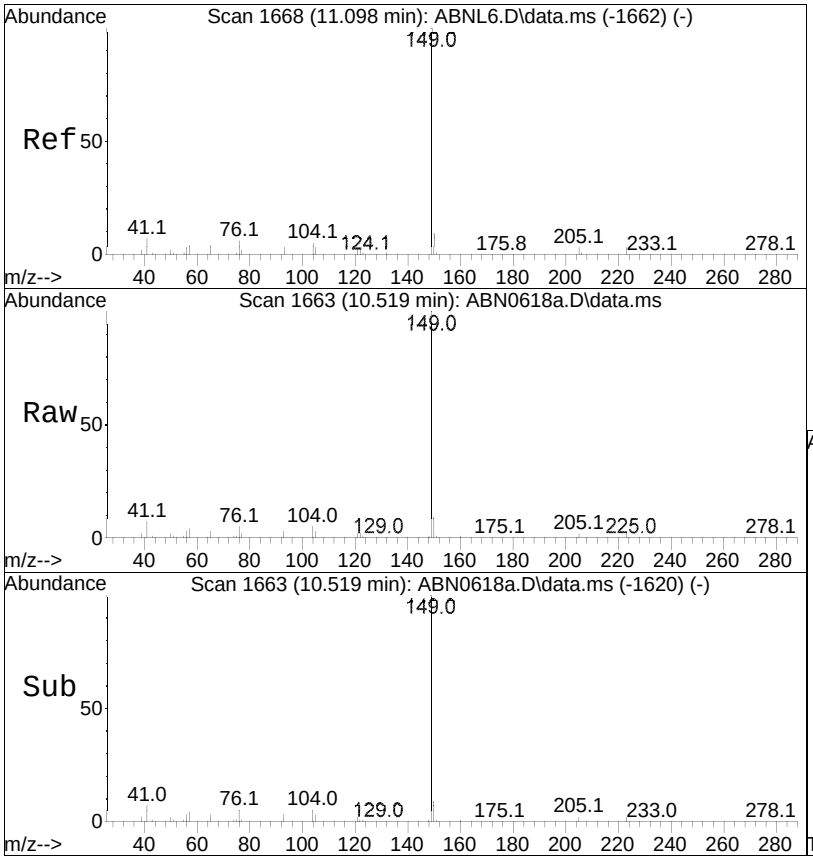


#90
Carbazole
Concen: 5.60 ug/ml
RT: 10.072 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:167 Resp: 348910

Ion	Ratio	Lower	Upper
167	100		
168	13.0	10.6	15.8
166	21.9	17.4	26.0

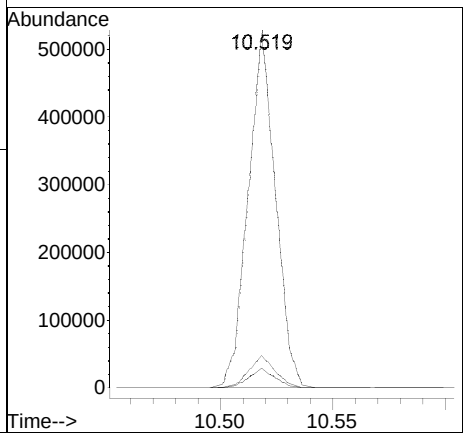


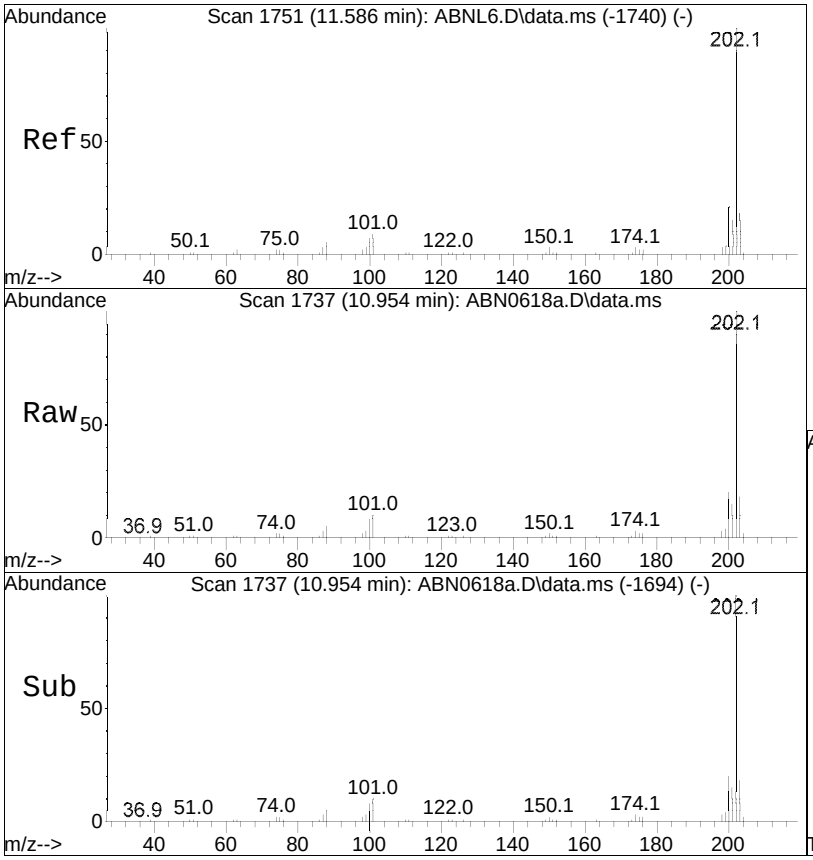


#91
Di-n-butylphthalate
Concen: 5.77 ug/ml
RT: 10.519 min Scan# 1663
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:149 Resp: 437621

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	5.4	4.5	6.7

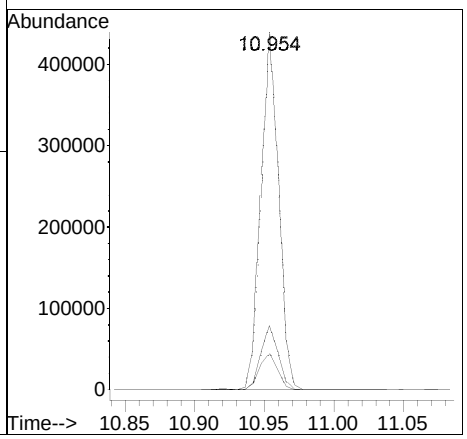


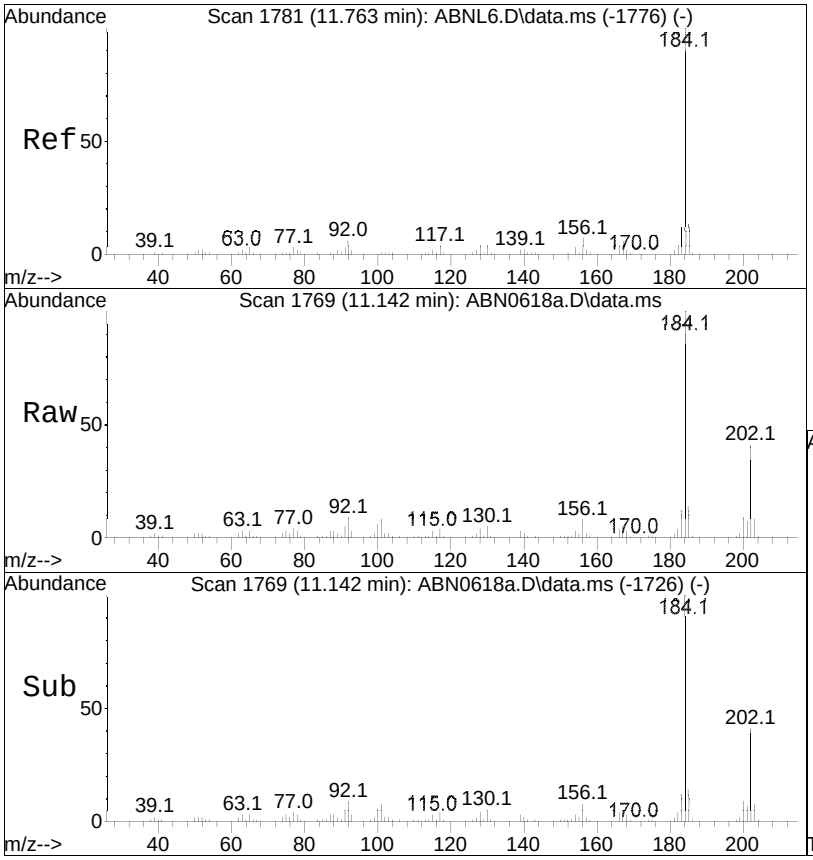


#92
Fluoranthene
Concen: 4.87 ug/ml
RT: 10.954 min Scan# 1737
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:202 Resp: 383327

Ion	Ratio	Lower	Upper
202	100		
101	10.8	13.5	20.3#
203	17.9	13.6	20.4

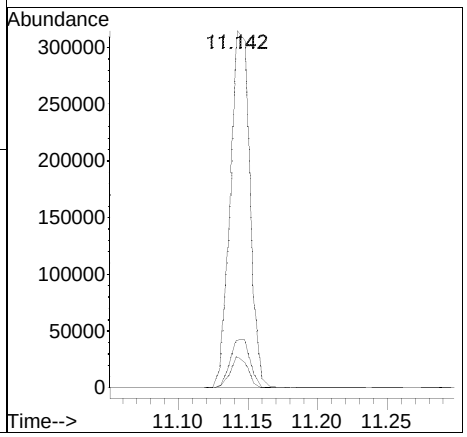


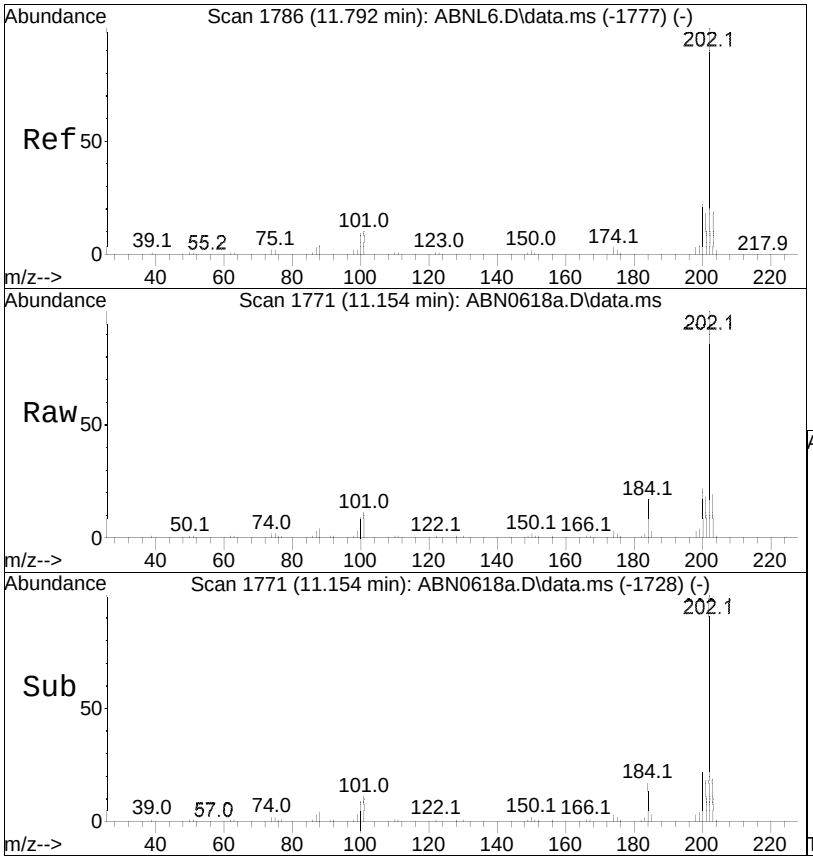


#93
Benzidine
Concen: 6.77 ug/ml
RT: 11.142 min Scan# 1769
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:184 Resp: 305816

Ion	Ratio	Lower	Upper
184	100		
92	8.1	9.1	13.7#
185	14.1	11.1	16.7

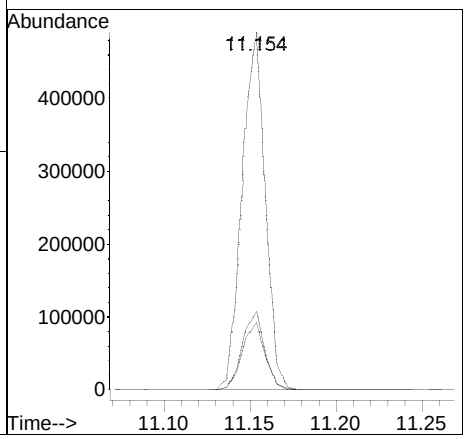


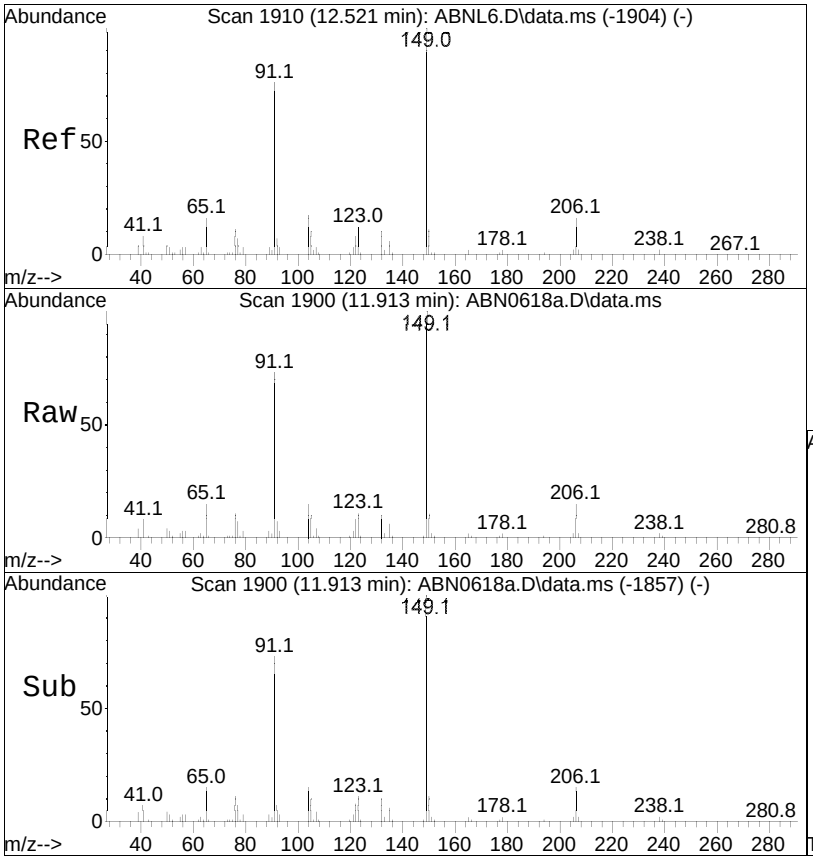


#94
Pyrene
Concen: 5.45 ug/ml
RT: 11.154 min Scan# 1771
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:202 Resp: 453101

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	18.9	14.2	21.4

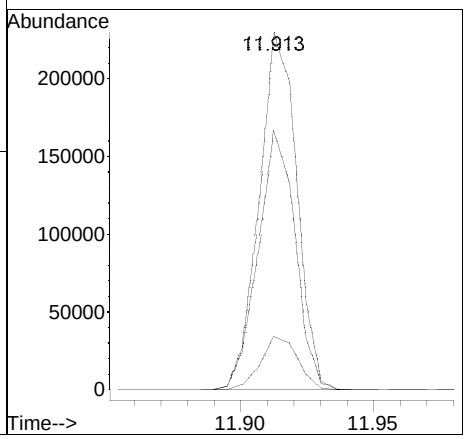


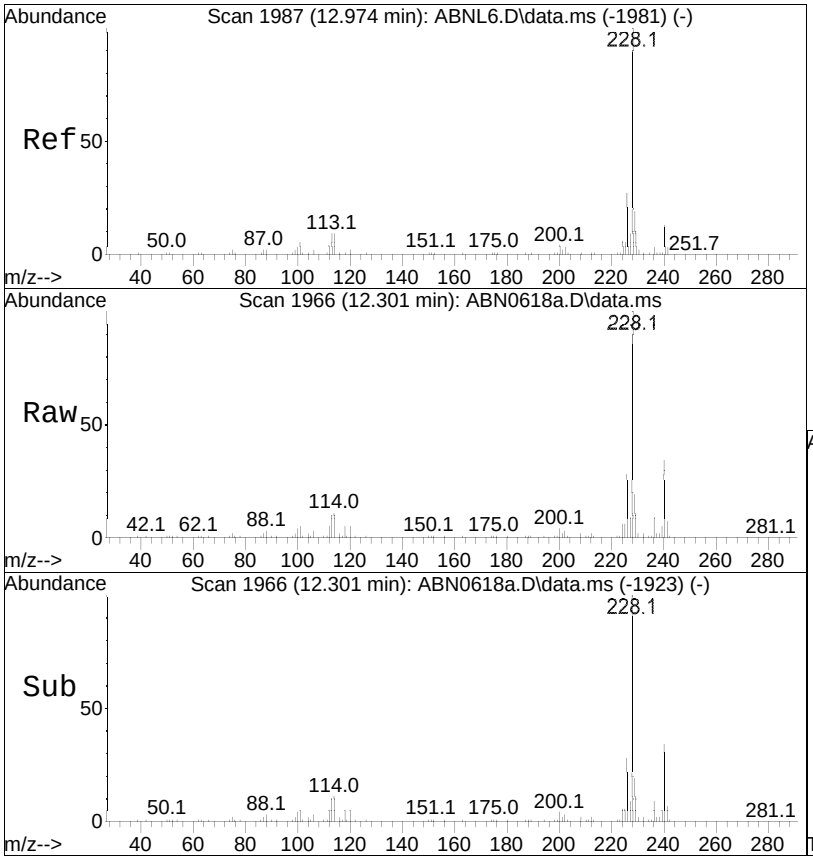


#96
Butyl benzyl phthalate
Concen: 6.92 ug/ml
RT: 11.913 min Scan# 1900
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:149 Resp: 223444

Ion	Ratio	Lower	Upper
149	100		
91	71.8	63.3	94.9
206	14.8	13.9	20.9

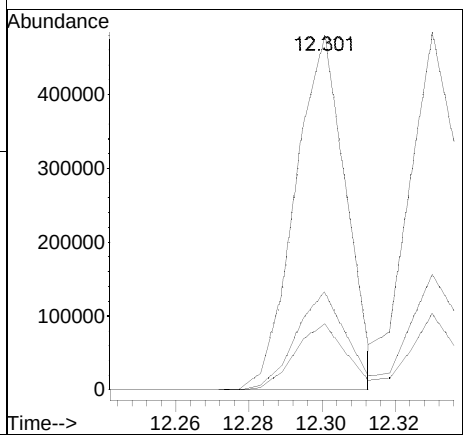


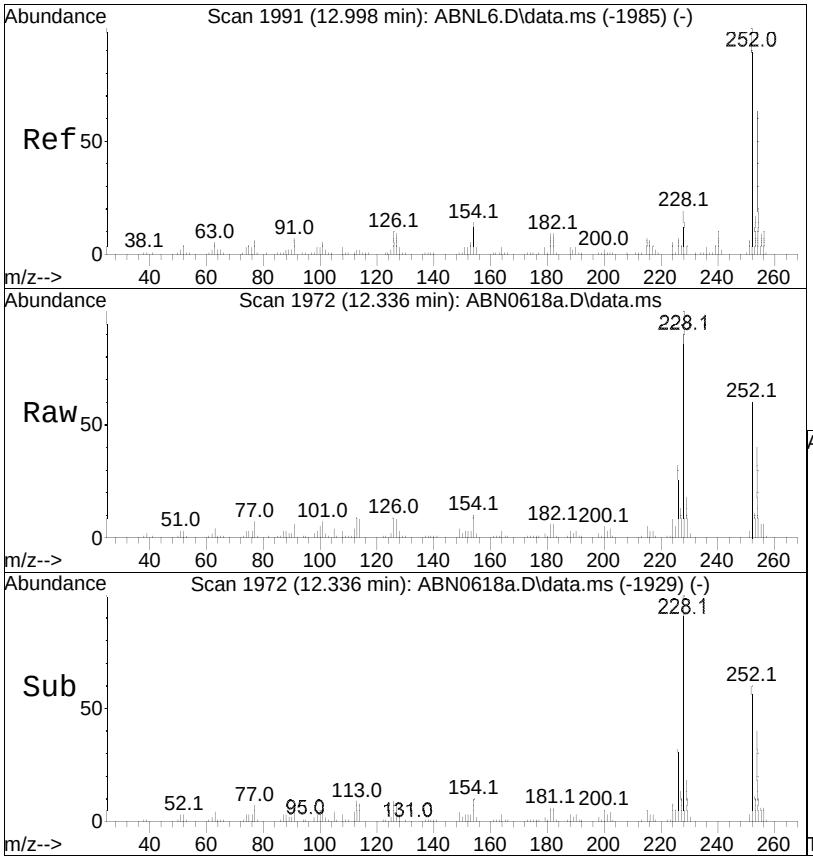


#104
Benzo(a)anthracene
Concen: 5.28 ug/ml M3
RT: 12.301 min Scan# 1966
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:228 Resp: 466201

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.4
229	18.8	15.6	23.4

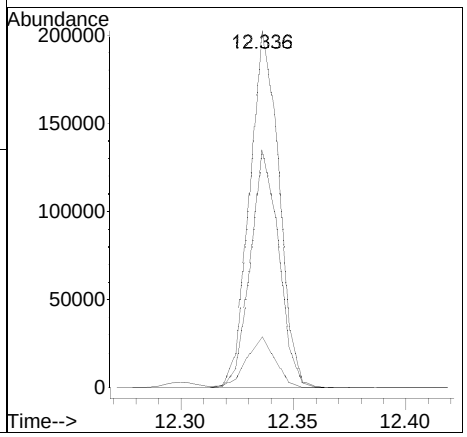


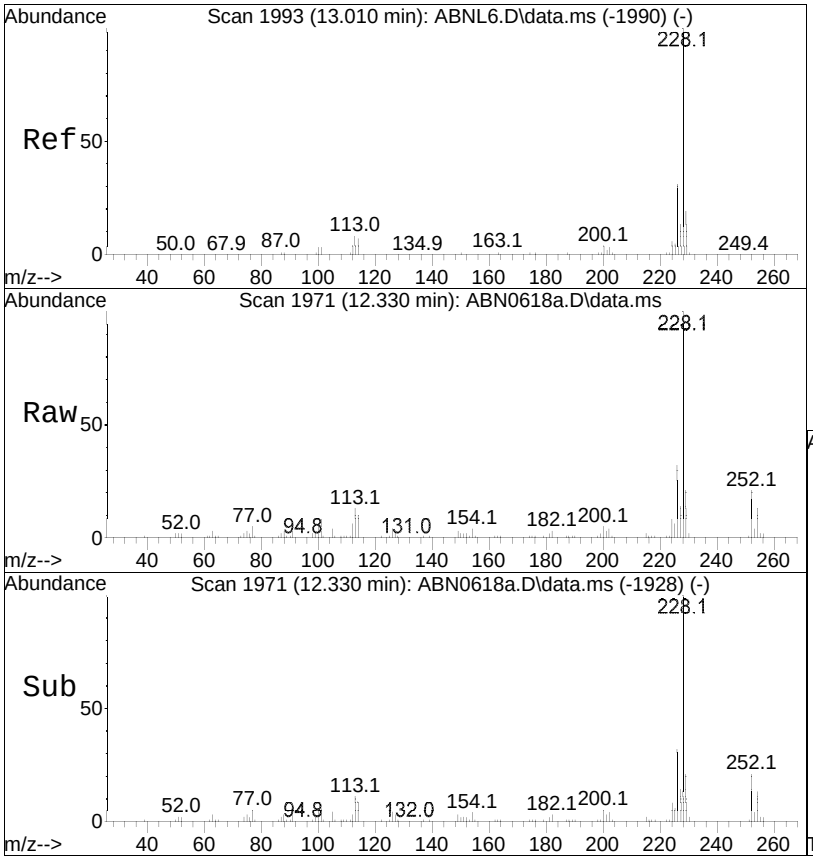


#105
3,3'-Dichlorobenzidine
Concen: 6.01 ug/ml
RT: 12.336 min Scan# 1972
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:252 Resp: 182980

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	64.3	51.2	76.8

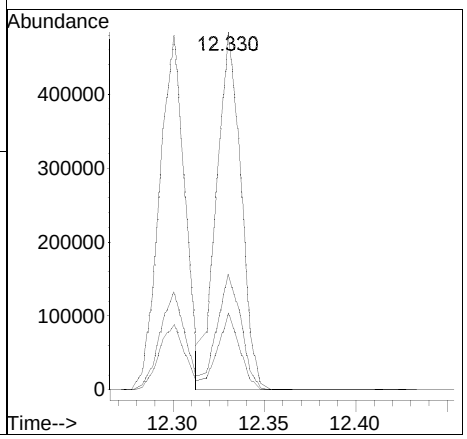


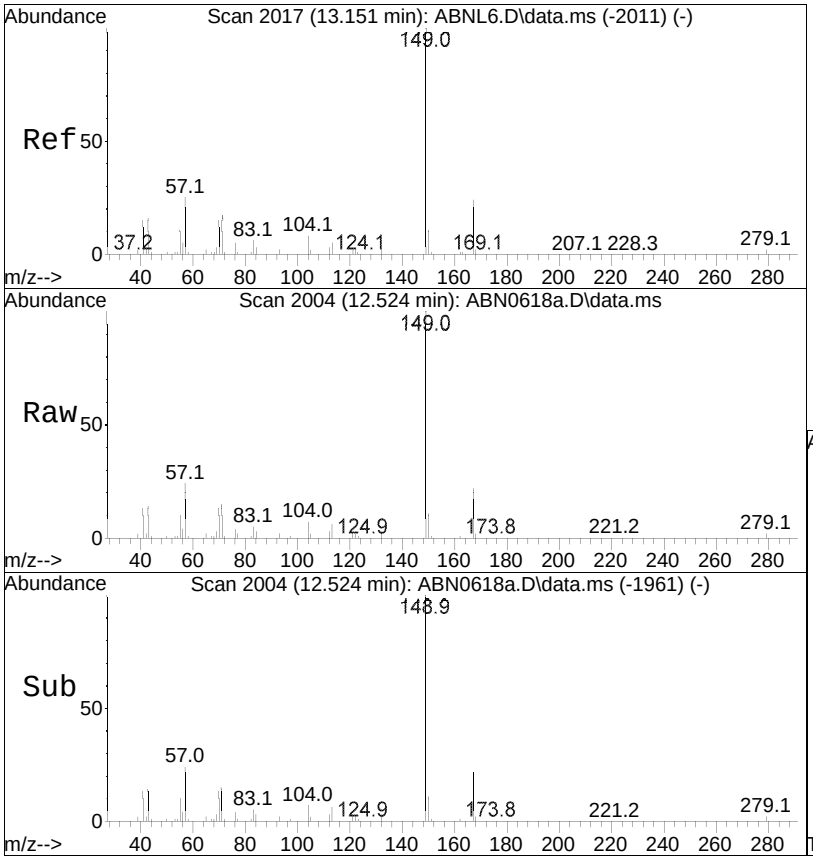


#106
Chrysene
Concen: 5.17 ug/ml
RT: 12.330 min Scan# 1971
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:228 Resp: 450578

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.0	36.0
229	19.6	15.8	23.8

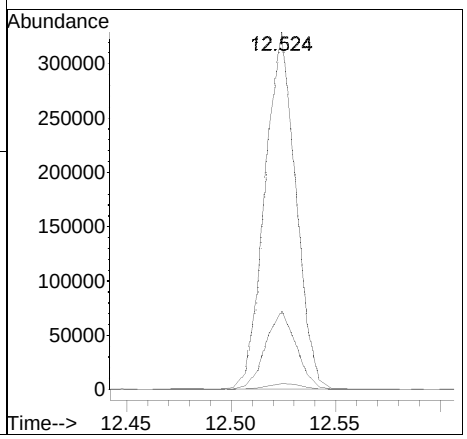


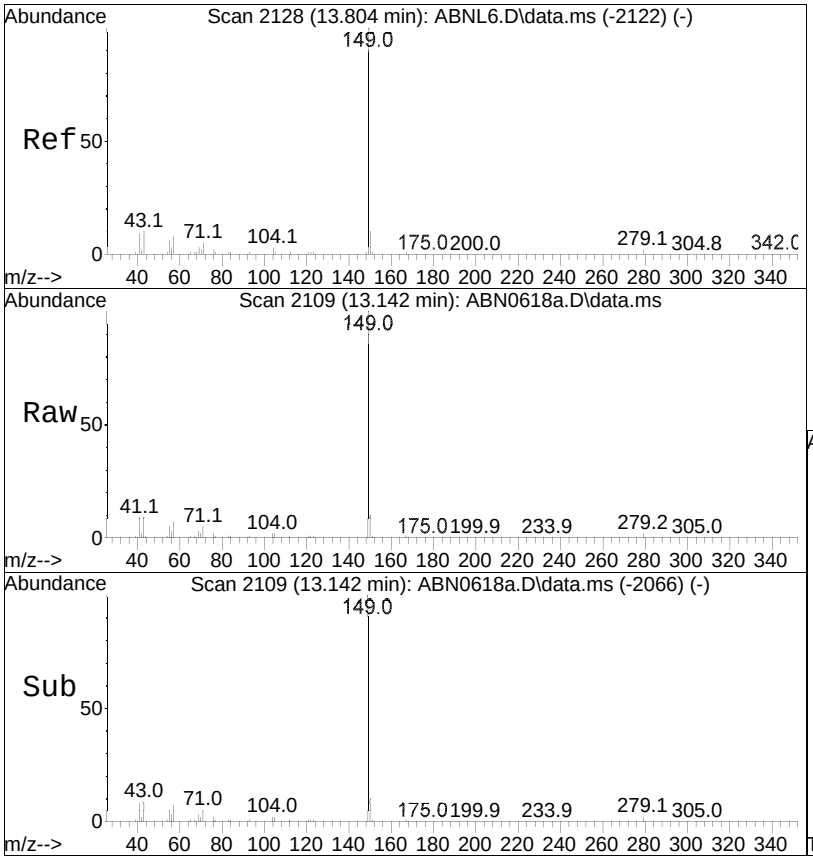


#107
Bis(2-ethylhexyl)phthalate
Concen: 6.40 ug/ml
RT: 12.524 min Scan# 2004
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:149 Resp: 335201

Ion	Ratio	Lower	Upper
149	100		
167	21.9	22.1	33.1#
279	1.7	3.0	4.4#

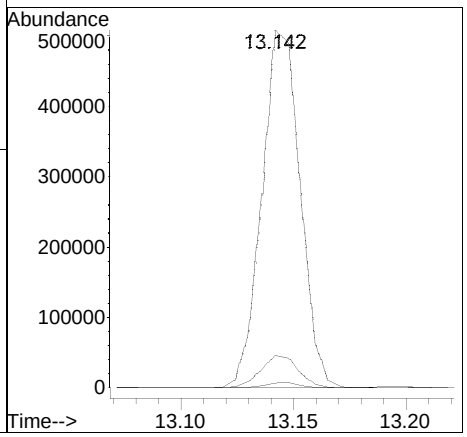


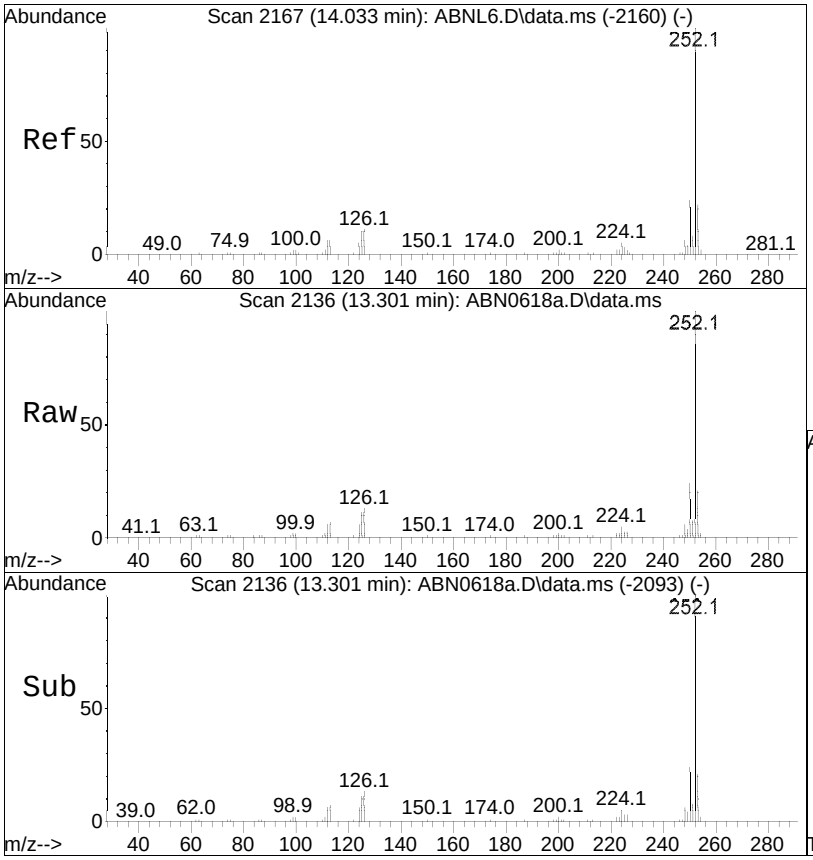


#108
Di-n-octylphthalate
Concen: 6.93 ug/ml M3
RT: 13.142 min Scan# 2109
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:149 Resp: 594766

Ion	Ratio	Lower	Upper
149	100		
43	9.0	18.8	28.2#
167	1.3	1.3	1.9

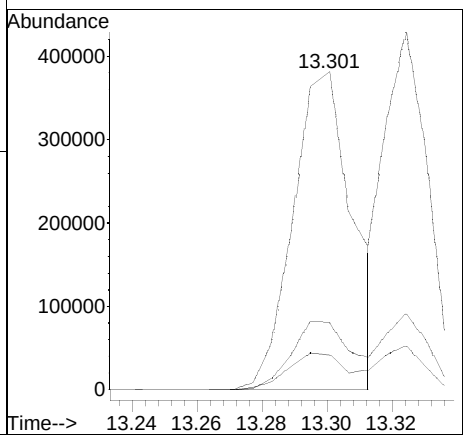


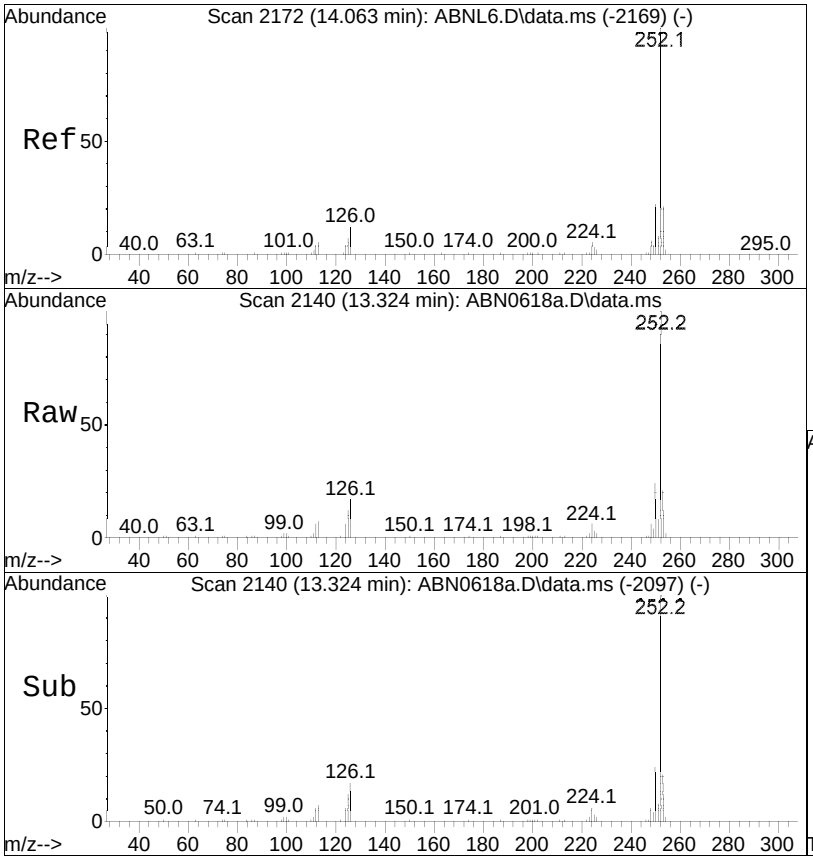


#109
Benzo(b)fluoranthene
Concen: 6.08 ug/ml M3
RT: 13.301 min Scan# 2136
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:252 Resp: 490190

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.3	19.9#
253	17.1	17.1	25.7#

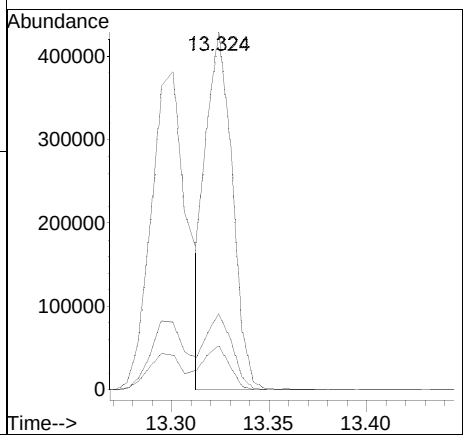


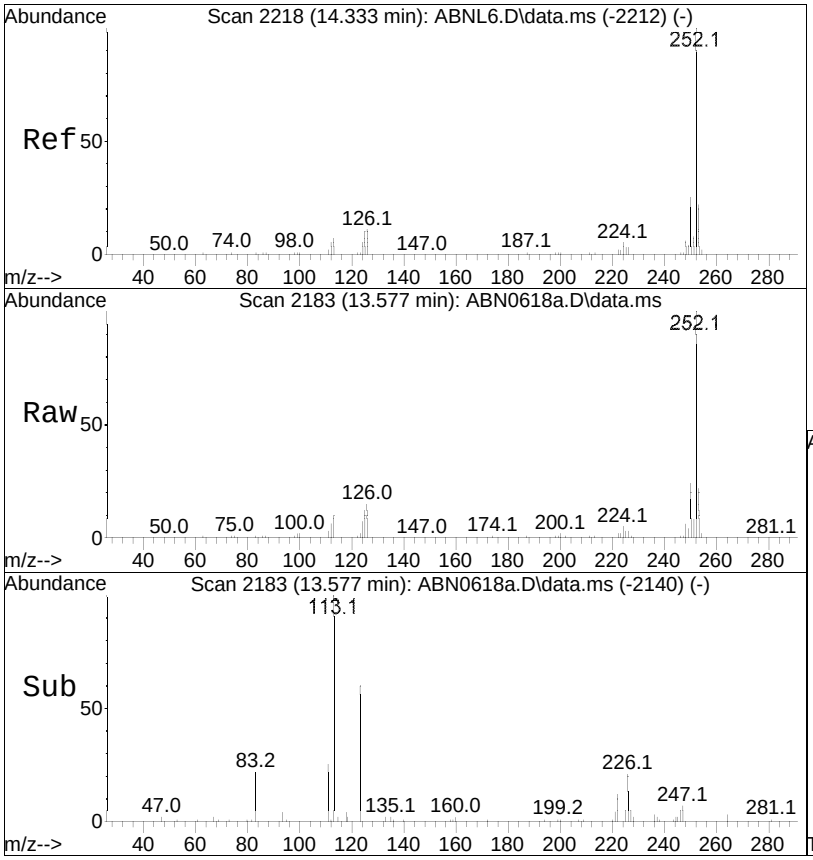


#110
Benzo(k)fluoranthene
Concen: 5.07 ug/ml
RT: 13.324 min Scan# 2140
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:252 Resp: 399488

Ion	Ratio	Lower	Upper
252	100		
125	13.4	13.0	19.6
253	20.9	16.8	25.2

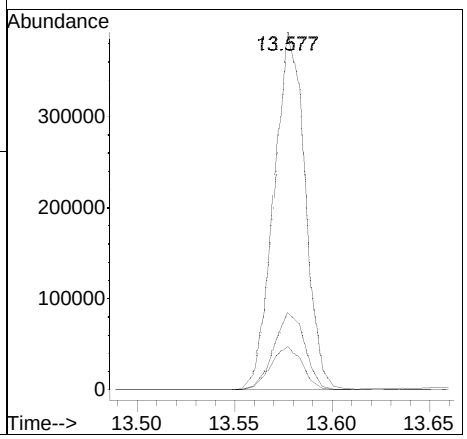


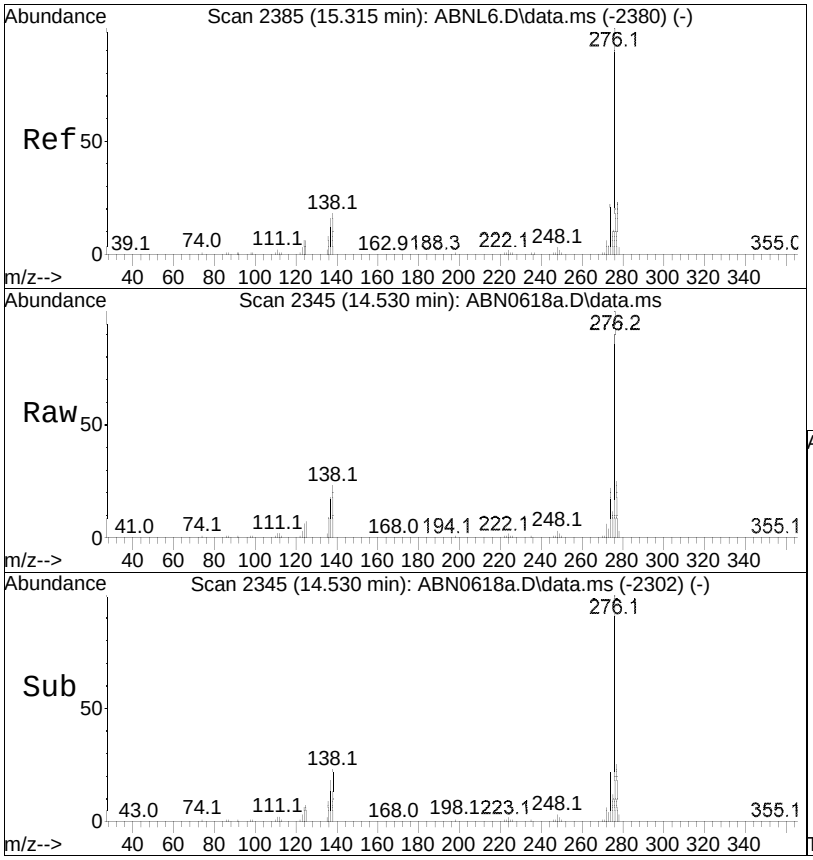


#111
Benzo(a)pyrene
Concen: 5.98 ug/ml M2
RT: 13.577 min Scan# 2183
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:252 Resp: 432296

Ion	Ratio	Lower	Upper
252	100		
125	12.5	14.2	21.2#
253	21.8	16.9	25.3

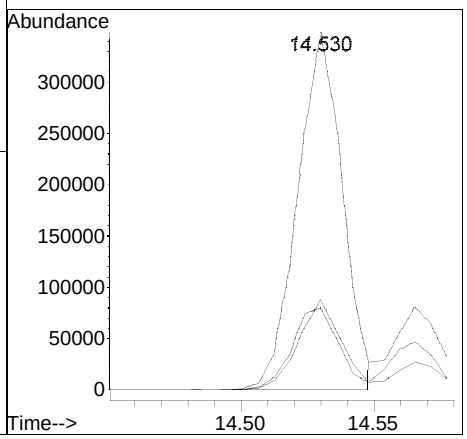


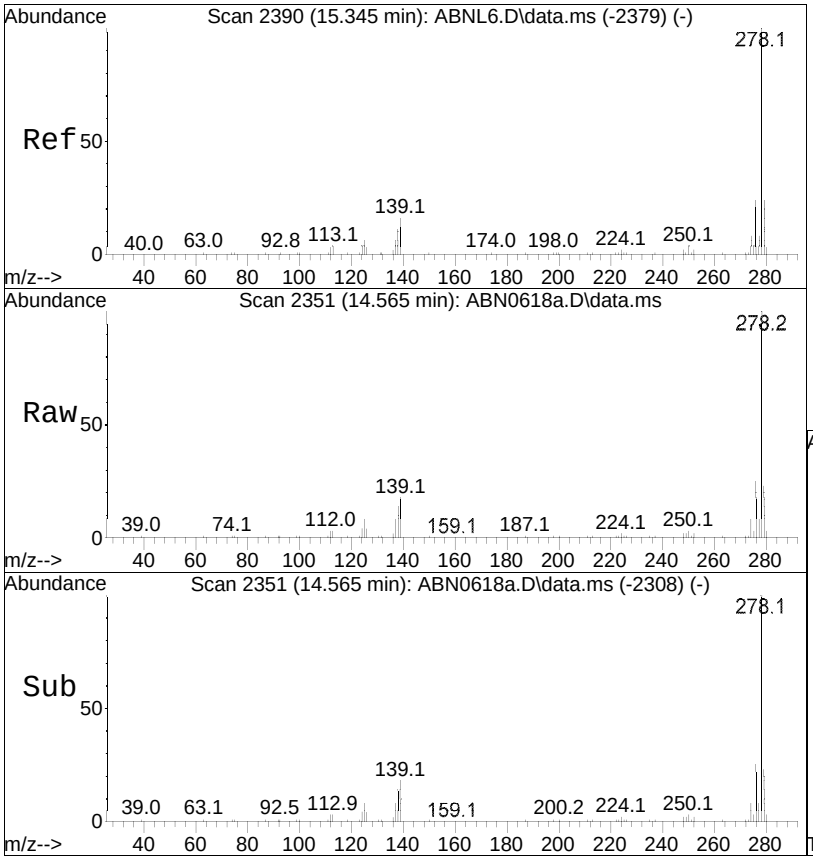


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.25 ug/mL M3
RT: 14.530 min Scan# 2345
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:276 Resp: 406655

Ion	Ratio	Lower	Upper
276	100		
138	24.8	25.1	37.7#
277	22.9	18.6	28.0

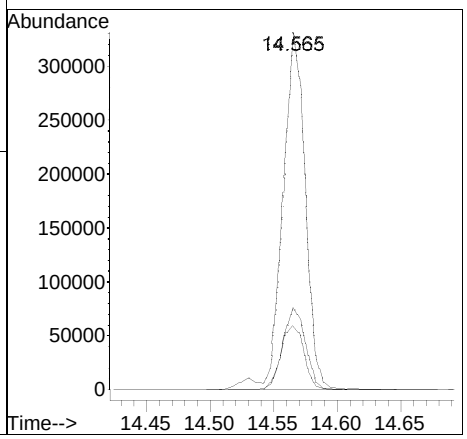


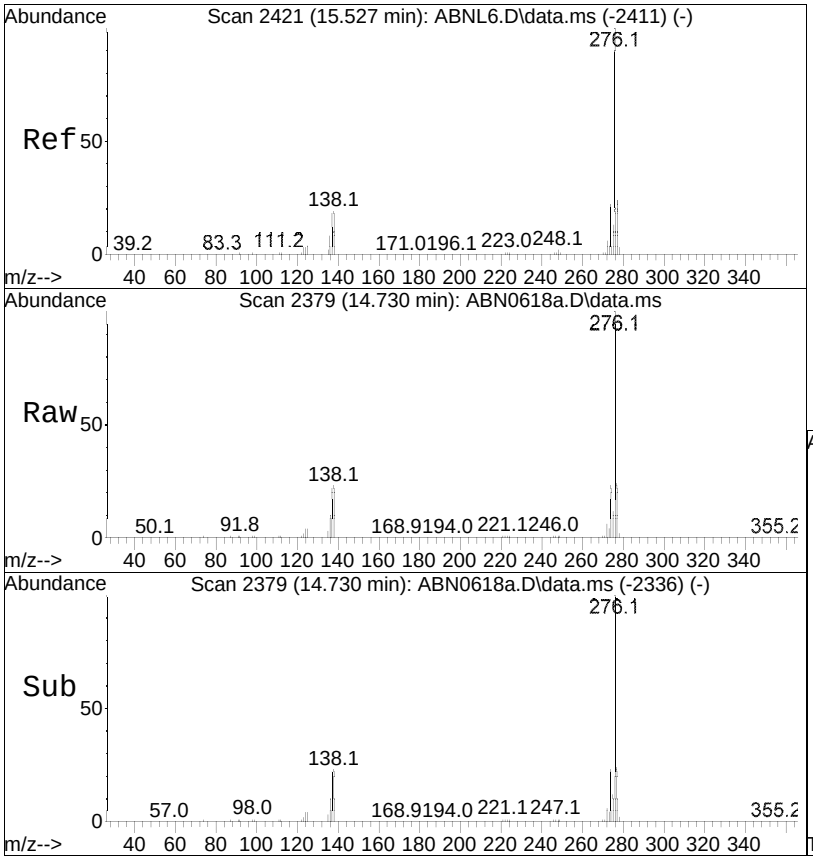


#114
Dibenzo(a,h)anthracene
Concen: 5.51 ug/ml
RT: 14.565 min Scan# 2351
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:278 Resp: 406229

Ion	Ratio	Lower	Upper
278	100		
139	18.6	20.8	31.2#
279	23.5	18.3	27.5

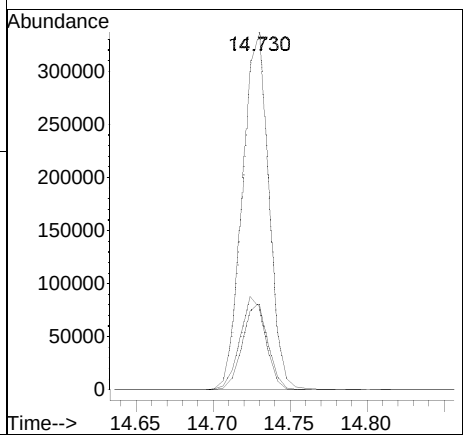




#115
Benzo(ghi)perylene
Concen: 5.50 ug/ml
RT: 14.730 min Scan# 2379
Delta R.T. 0.000 min
Lab File: ABN0618a.D
Acq: 18 Jun 2024 10:36 am

Tgt Ion:276 Resp: 399792

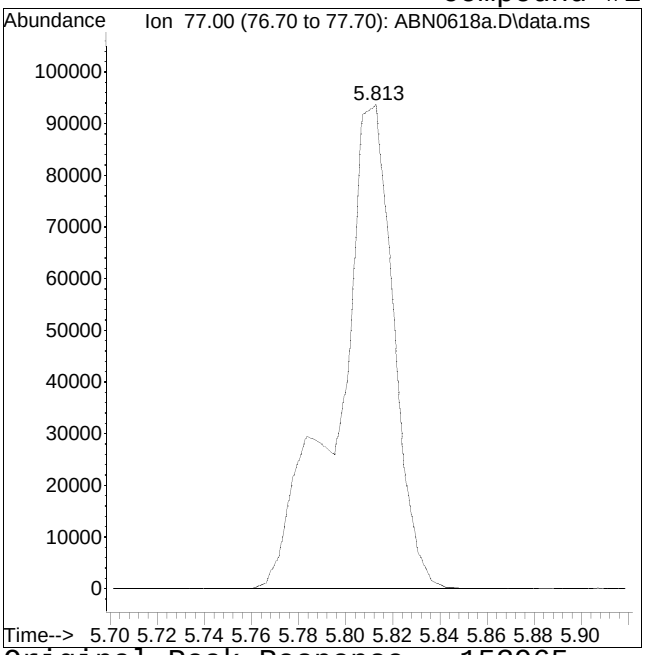
Ion	Ratio	Lower	Upper
276	100		
138	25.2	29.2	43.8#
277	23.3	18.8	28.2



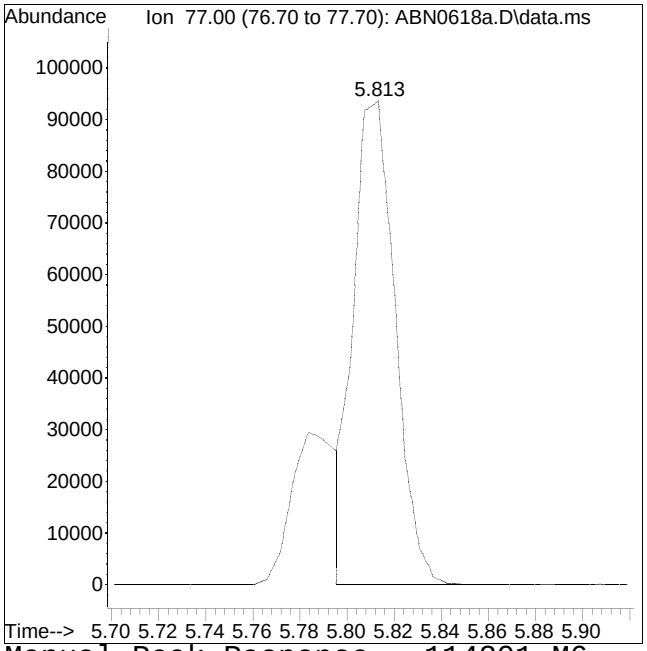
Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #20: Nitrobenzene



Original Peak Response = 153965



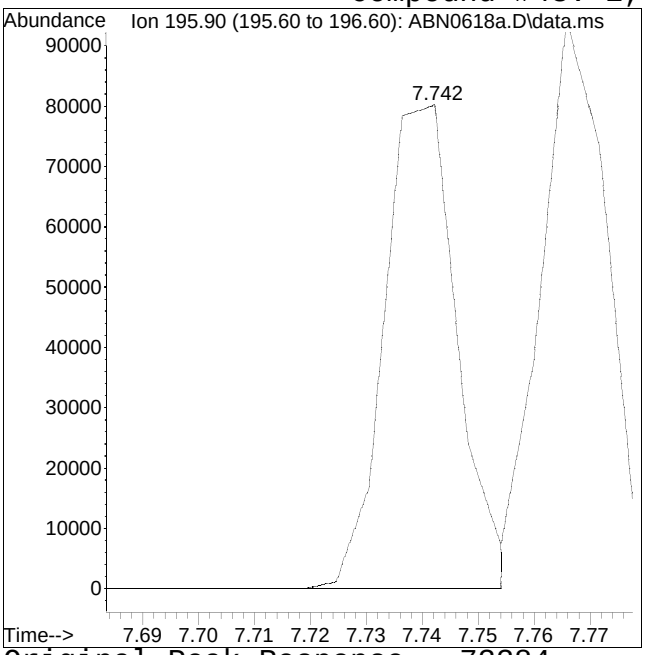
Manual Peak Response = 114201 M6

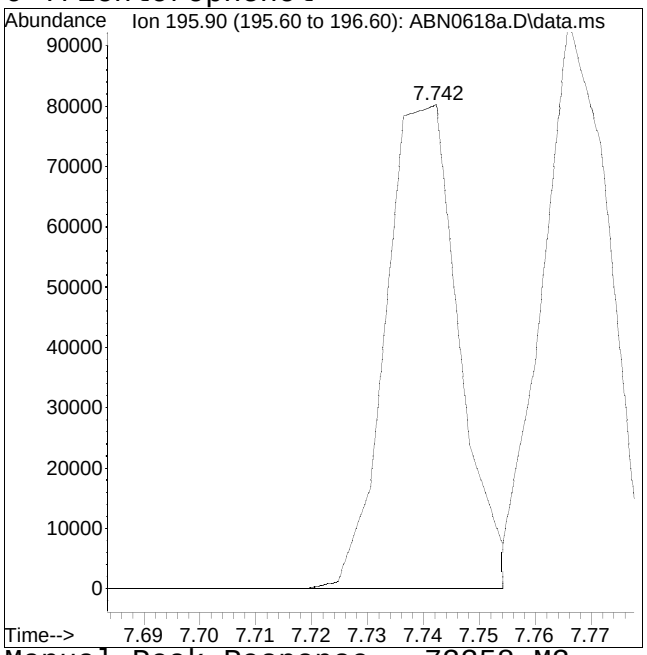
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #43: 2,4,6-Trichlorophenol



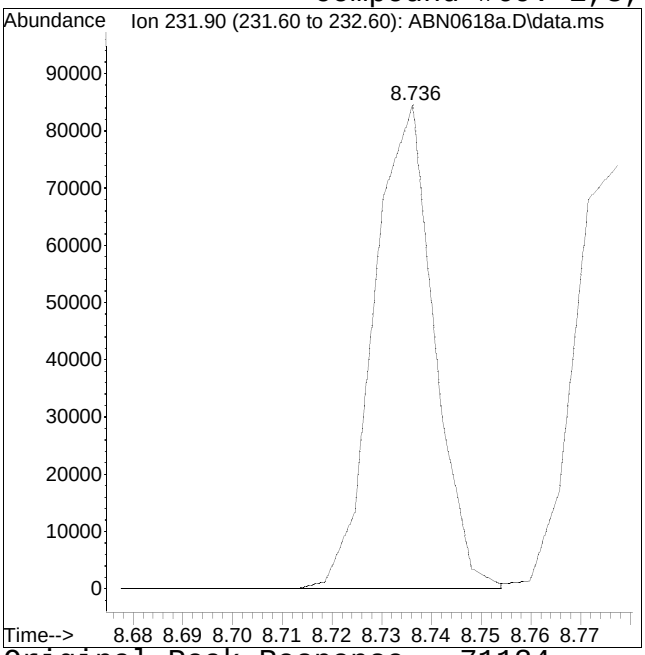


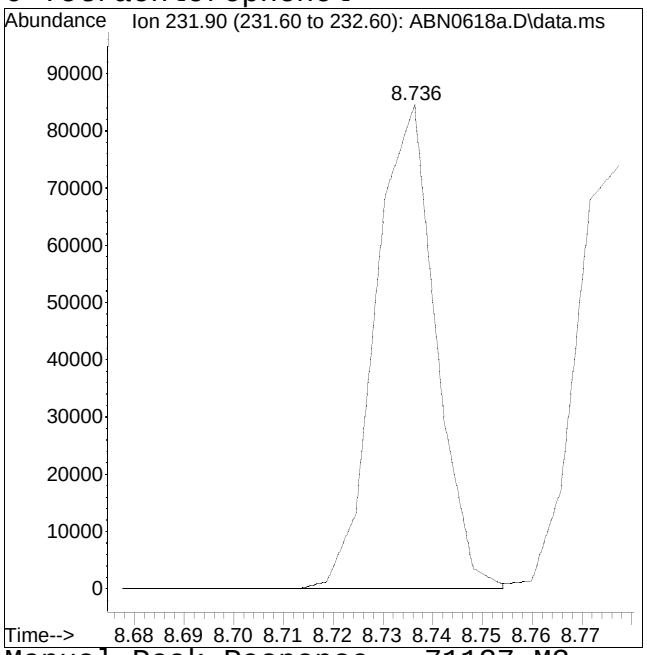
Original Peak Response = 73384 Manual Peak Response = 73358 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #69: 2,3,5,6-Tetrachlorophenol





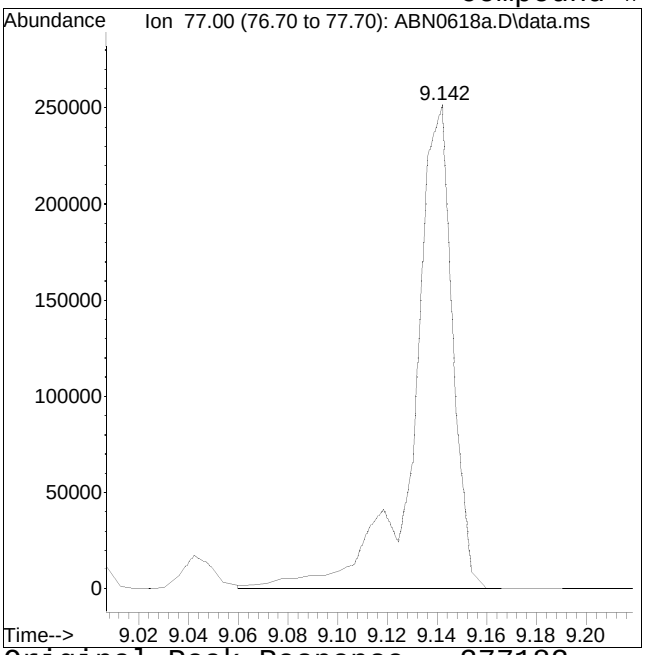
Original Peak Response = 71134 Manual Peak Response = 71137 M3

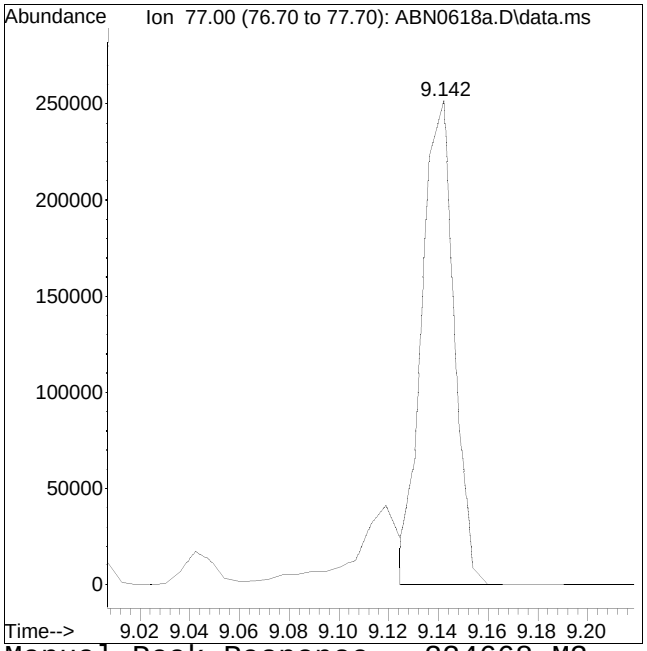
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #77: Azobenzene



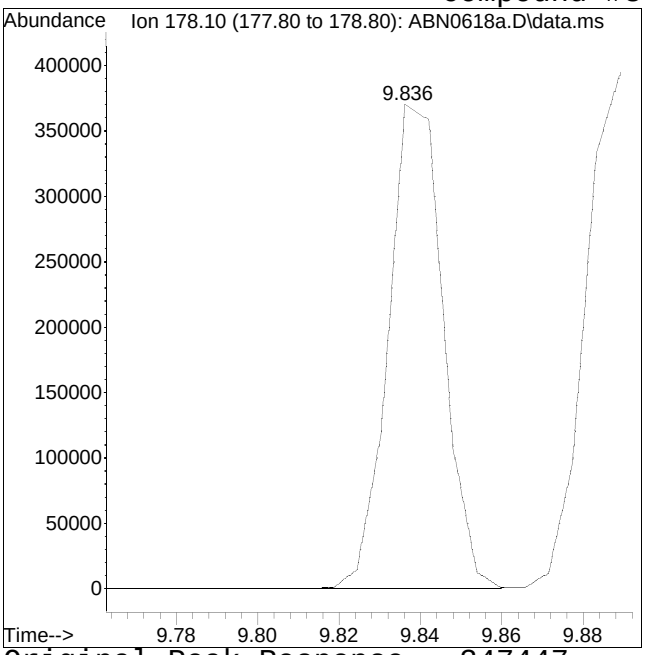


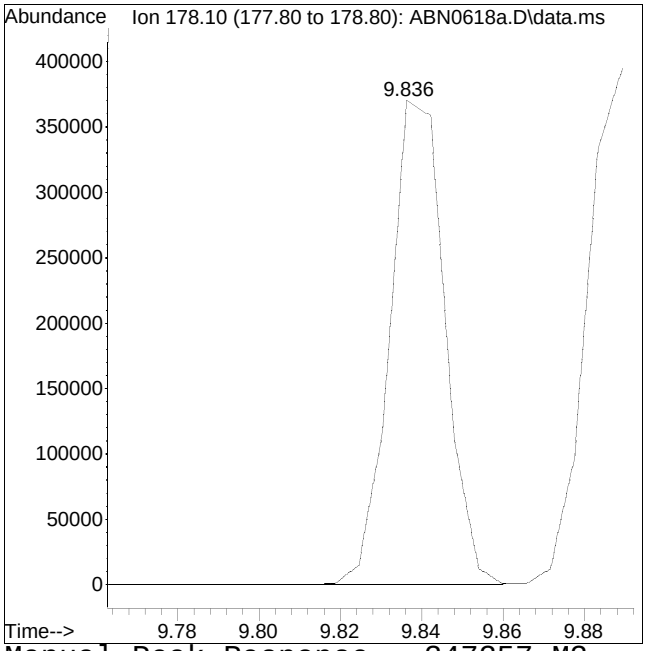
Original Peak Response = 277182 Manual Peak Response = 224668 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #88: Phenanthrene



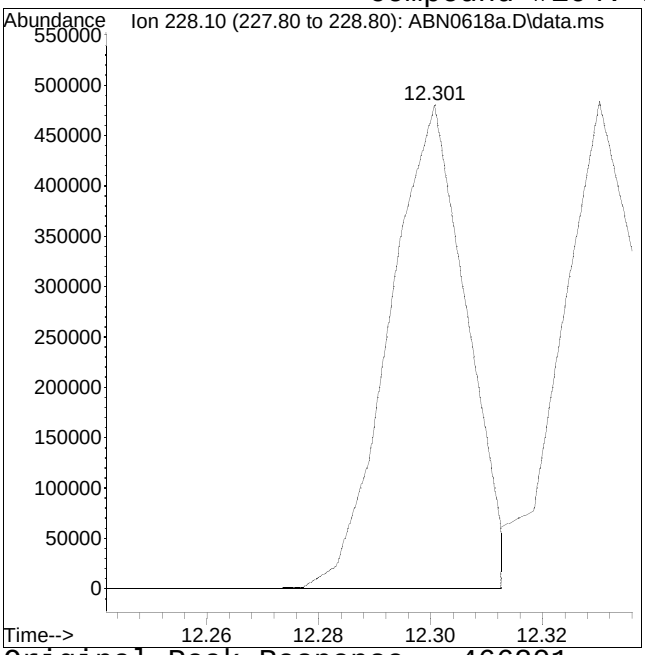


Original Peak Response = 347447 Manual Peak Response = 347357 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

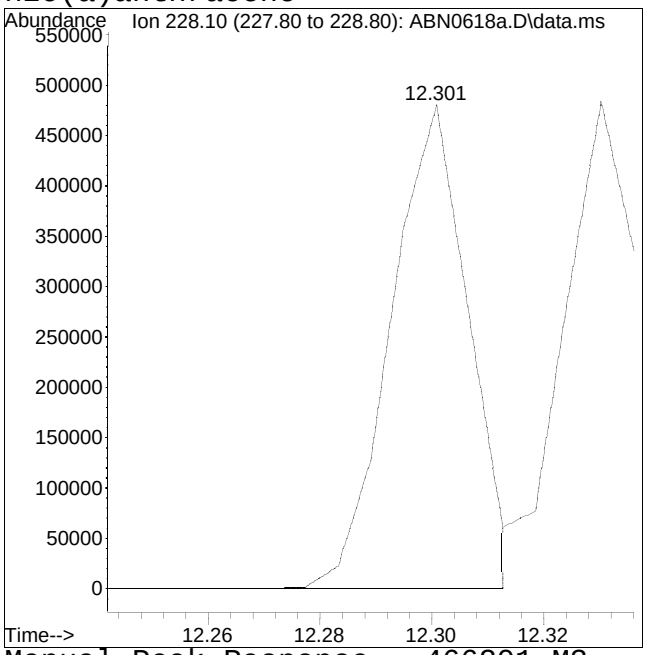
Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #104: Benzo(a)anthracene



Original Peak Response = 466201



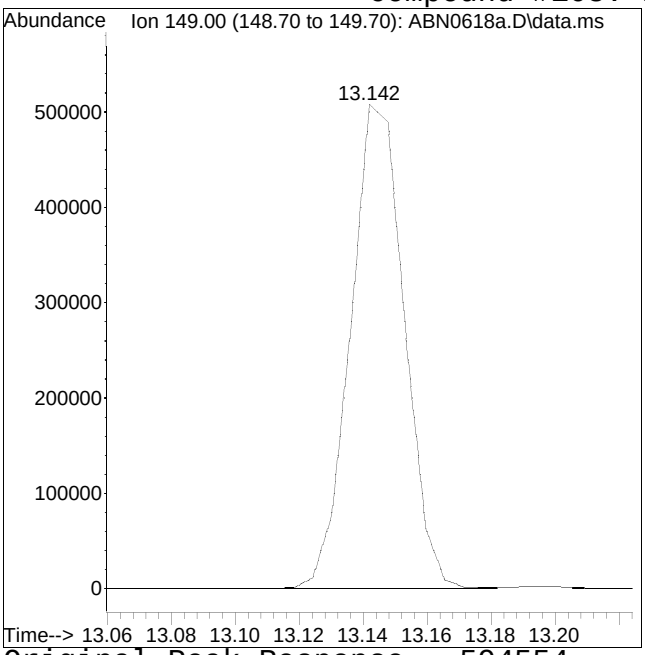
Manual Peak Response = 466201 M3

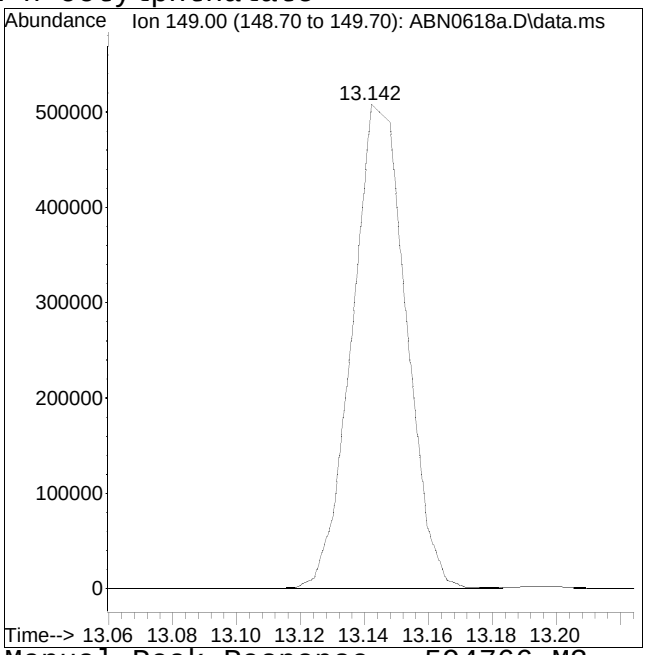
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #108: Di-n-octylphthalate





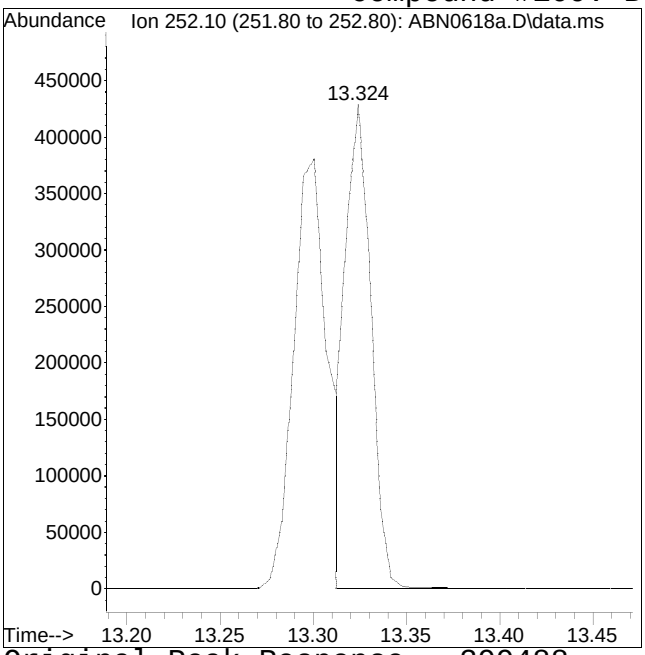
Original Peak Response = 594554 Manual Peak Response = 594766 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

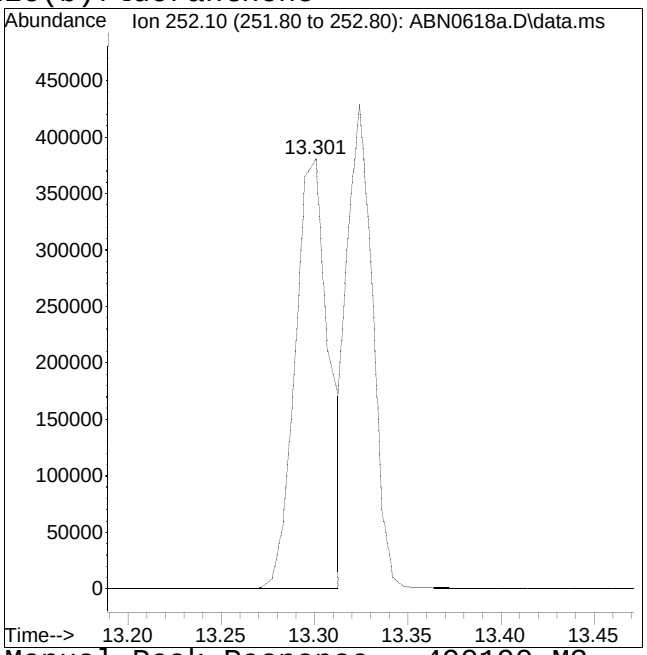
Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #109: Benzo(b)fluoranthene



Original Peak Response = 399488



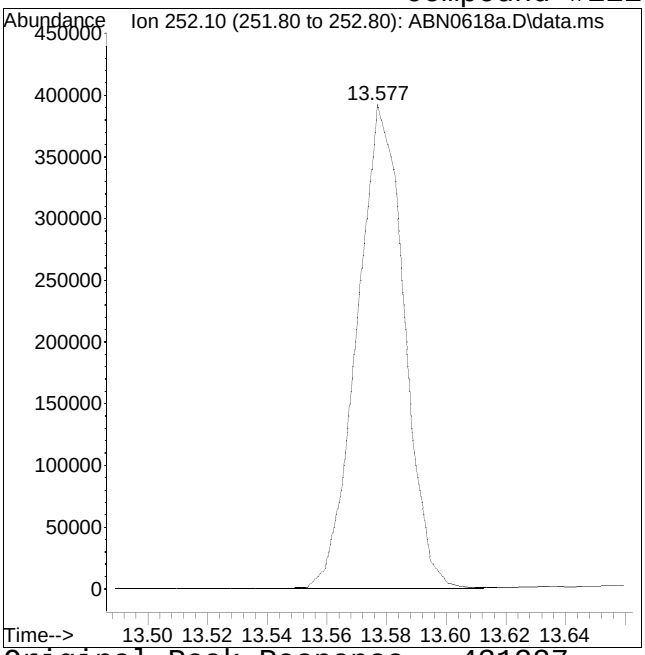
Manual Peak Response = 490190 M3

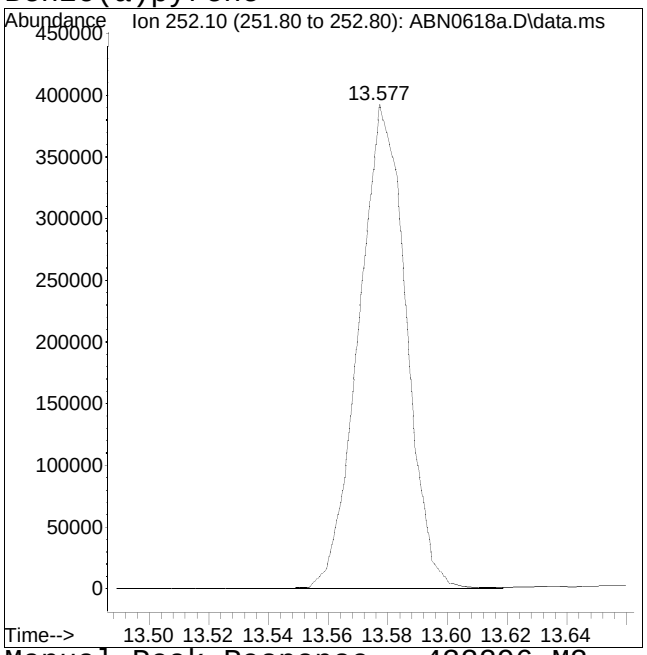
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #111: Benzo(a)pyrene



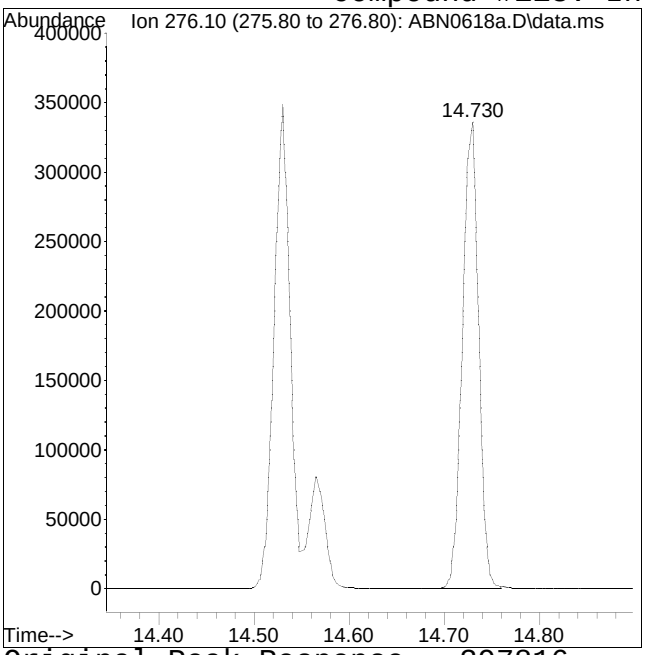


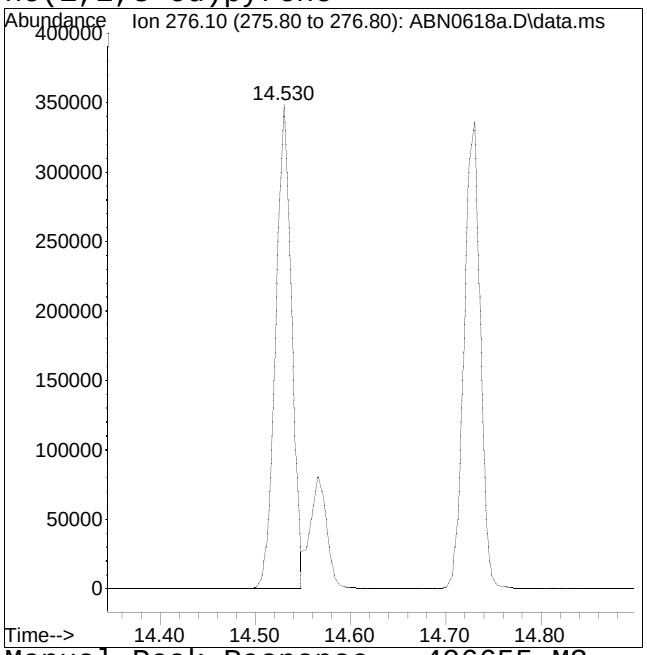
Original Peak Response = 431327 Manual Peak Response = 432296 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240618RVT\ QMethod : FS240418SV106.m
Data File : ABN0618a.D Operator : SV106:als
Date Inj'd : 6/18/2024 10:36 am Instrument : SV 106
Sample : WG1935854-3,32,,ABN 10526 Quant Date : 6/18/2024 11:03 am

Compound #113: Indeno(1,2,3-cd)pyrene





Original Peak Response = 397816 Manual Peak Response = 406655 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240618RVT\
Data File : ADP0618.D
Acq On : 18 Jun 2024 11:00 am
Operator : SV106:als
Sample : WG1935854-5,32,,ADP 10751 gmr0518B
Misc : WG1935854,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 18 11:20:08 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:45 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	-0.05
33	T	n-Decane		1.53738	0.00766	99.5#	1#	0.01
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	80	-0.03
86	T	Atrazine		0.403	0.446	-10.7	91	-0.03
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	84	-0.03
100	T	n-Octadecane		0.440	0.416	5.5	81	-0.03
101	T	Parathion		0.121	0.135	-11.6	105	-0.03
102	T	3,3'-Dimethylbenzidine	*	5.000	5.425	-8.5	110	-0.04

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ADP0618.D
Acq On : 18 Jun 2024 11:00 am
Operator : SV106:als
Sample : WG1935854-5,32,,ADP 10751 gmr0518B
Misc : WG1935854,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 18 11:20:08 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.884	152	62740	4.000	ug/ml	-0.05
85) IS3_Acenaphthene-d10	8.425	164	113234	4.000	ug/ml	-0.03
99) IS3_Phenanthrene-d10	9.819	188	268207	4.000	ug/ml	#-0.03
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.884	57	601	0.025	ug/ml#	100
86) Atrazine	9.677	200	63198	5.541	ug/ml	91
100) n-Octadecane	9.907	57	139595	4.734	ug/ml#	1
101) Parathion	10.648	109	45266	5.600	ug/ml#	92
102) 3,3'-Dimethylbenzidine	11.848	212	291387	5.425	ug/ml	99

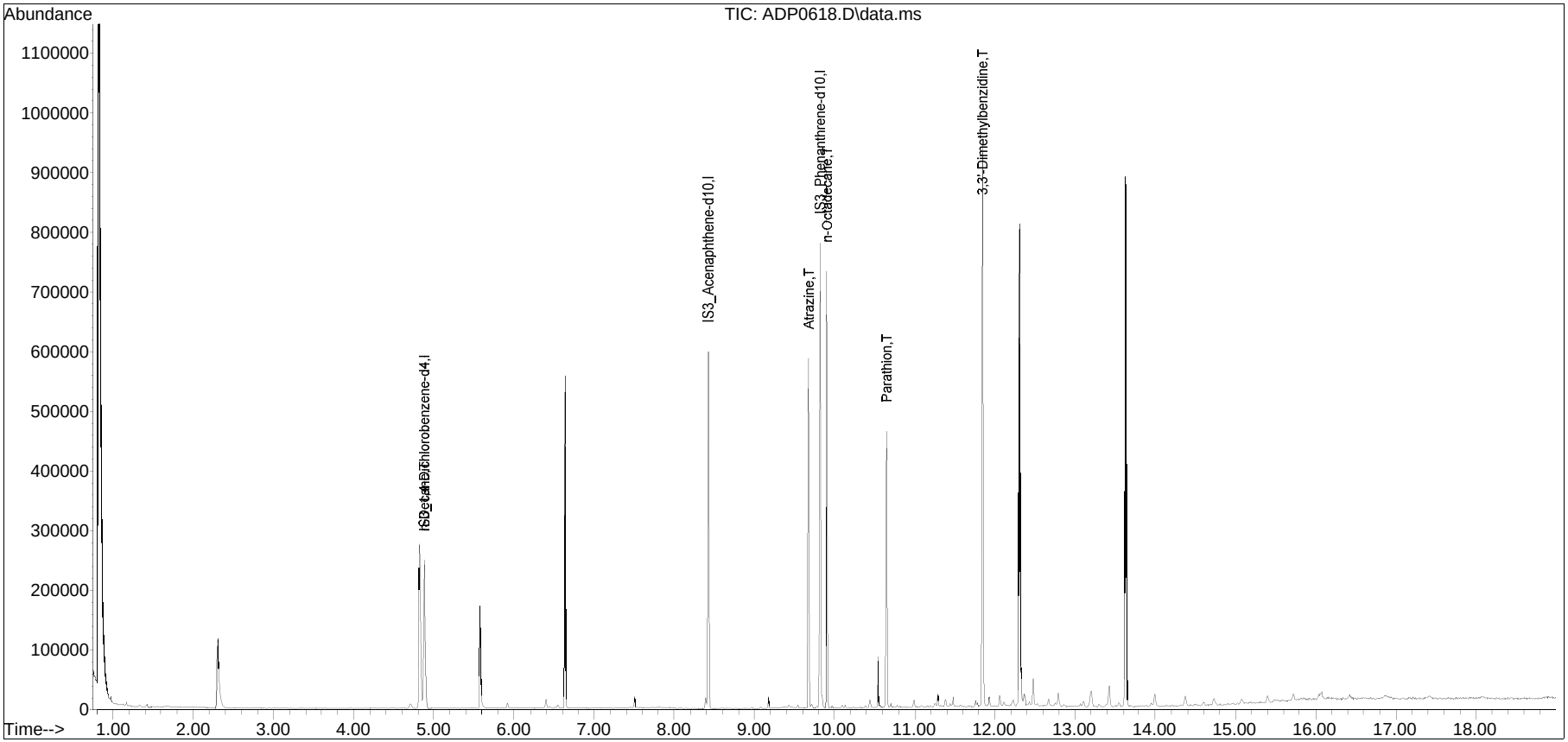
(#) = qualifier out of range (m) = manual integration (+) = signals summed

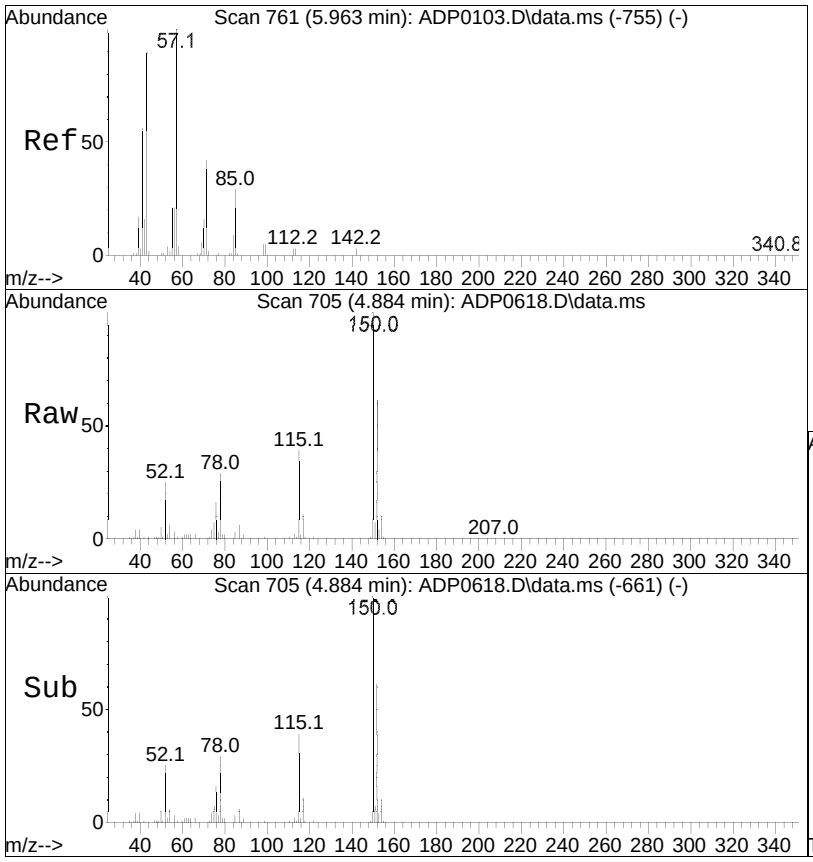
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : ADP0618.D
Acq On : 18 Jun 2024 11:00 am
Operator : SV106:als
Sample : WG1935854-5,32,,ADP 10751 gmr0518B
Misc : WG1935854,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 18 11:20:08 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 11:03:45 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

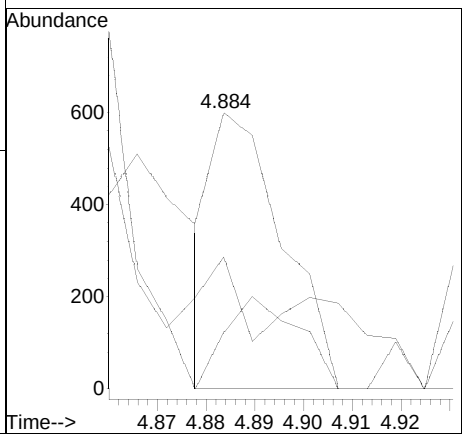


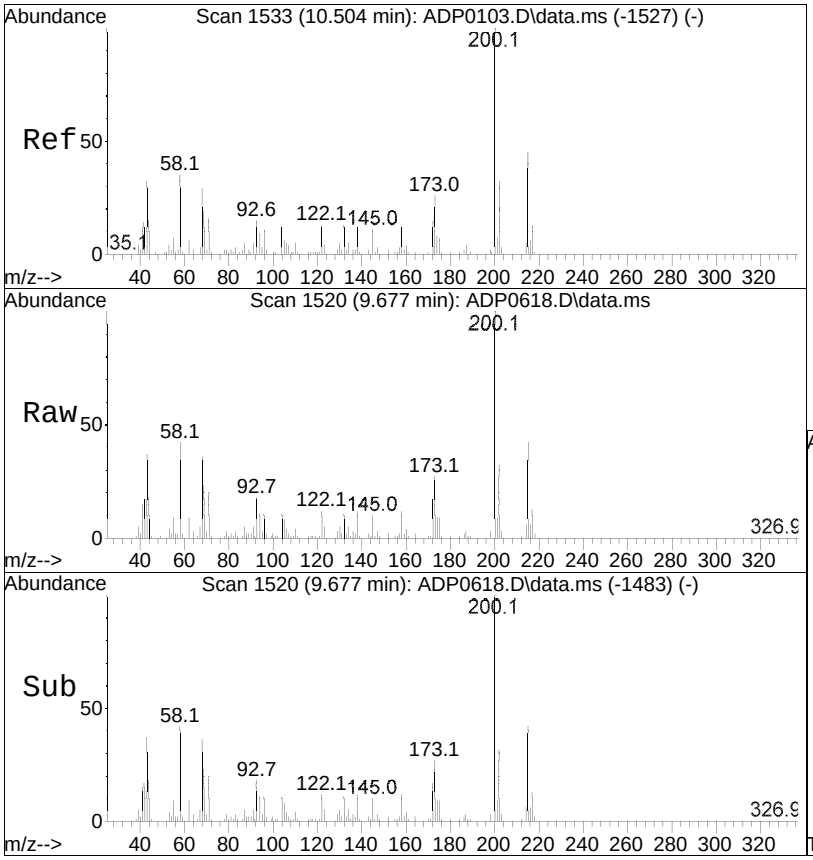


#33
n-Decane
Concen: 0.02 ug/ml
RT: 4.884 min Scan# 705
Delta R.T. 0.012 min
Lab File: ADP0618.D
Acq: 18 Jun 2024 11:00 am

Tgt Ion: 57 Resp: 601

Ion	Ratio	Lower	Upper
57	100		
43	0.0	0.2	0.2#
41	0.0	0.2	0.2#

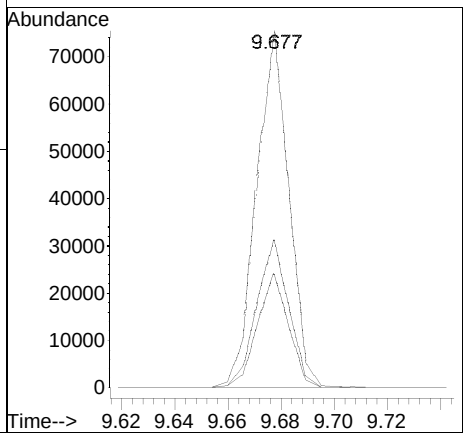


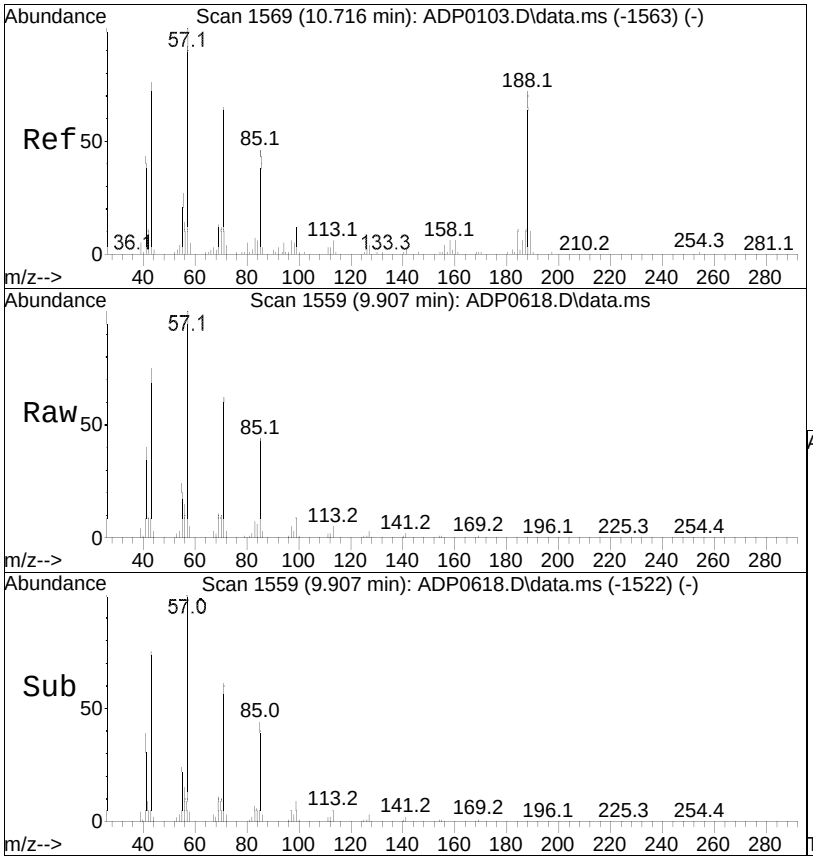


#86
Atrazine
Concen: 5.54 ug/ml
RT: 9.677 min Scan# 1520
Delta R.T. -0.030 min
Lab File: ADP0618.D
Acq: 18 Jun 2024 11:00 am

Tgt Ion:200 Resp: 63198

Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	41.2	40.2	60.4

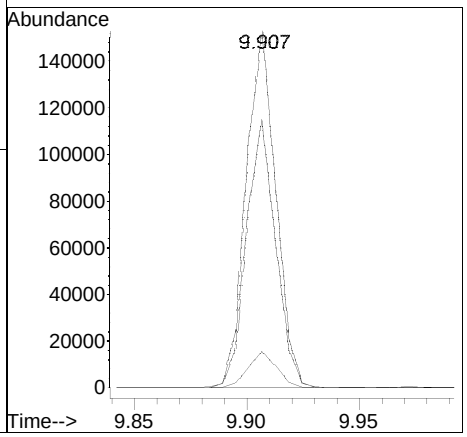


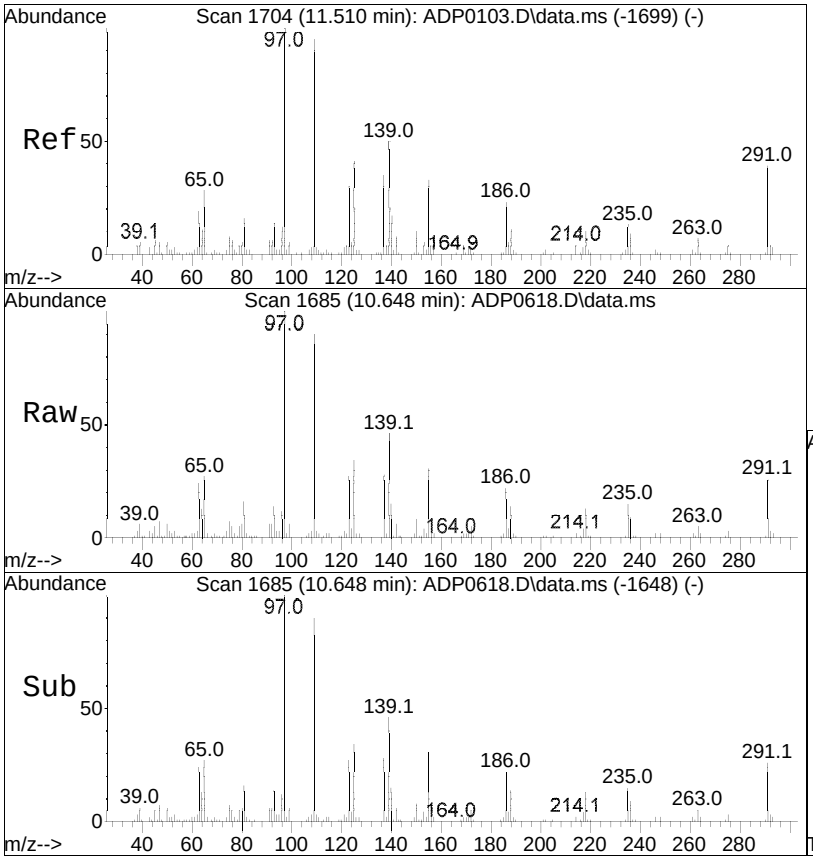


#100
n-Octadecane
Concen: 4.73 ug/ml
RT: 9.907 min Scan# 1559
Delta R.T. -0.030 min
Lab File: ADP0618.D
Acq: 18 Jun 2024 11:00 am

Tgt Ion: 57 Resp: 139595

Ion	Ratio	Lower	Upper
57	100		
43	73.9	9.0	13.6#
70	9.9	0.2	0.2#

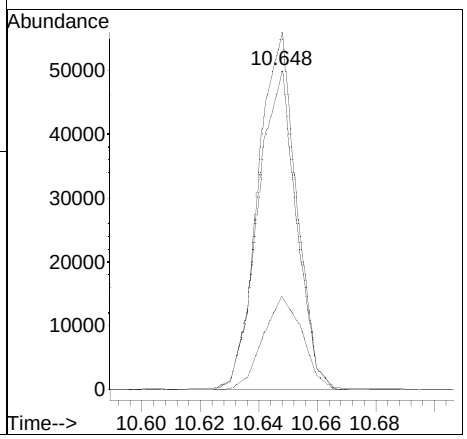


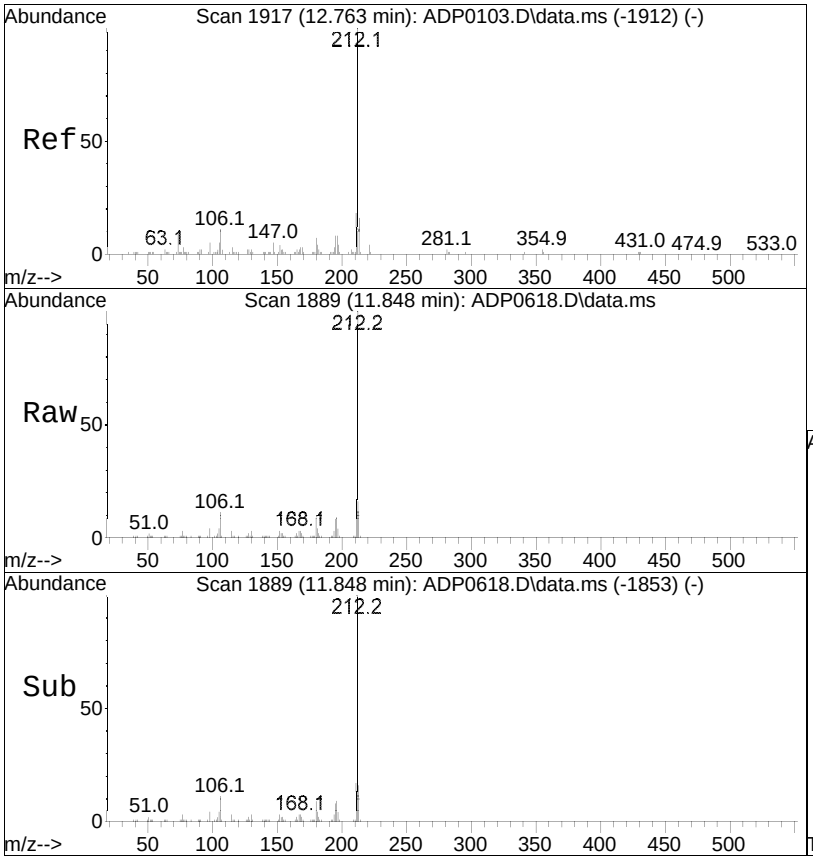


#101
Parathion
Concen: 5.60 ug/ml
RT: 10.648 min Scan# 1685
Delta R.T. -0.030 min
Lab File: ADP0618.D
Acq: 18 Jun 2024 11:00 am

Tgt Ion:109 Resp: 45266

Ion	Ratio	Lower	Upper
109	100		
97	112.4	87.4	131.2
291	30.1	34.2	51.2#

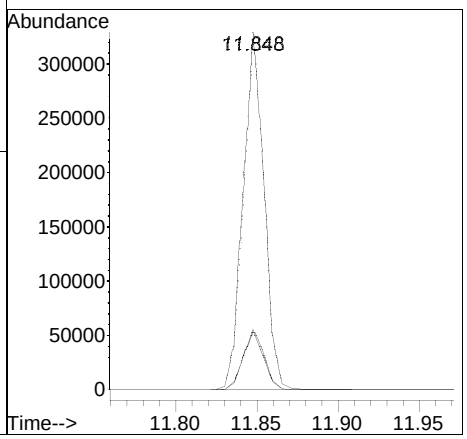




#102
3,3'-Dimethylbenzidine
Concen: 5.42 ug/ml
RT: 11.848 min Scan# 1889
Delta R.T. -0.035 min
Lab File: ADP0618.D
Acq: 18 Jun 2024 11:00 am

Tgt Ion:212 Resp: 291387

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	16.3	13.2	19.8



Manual Integration Report

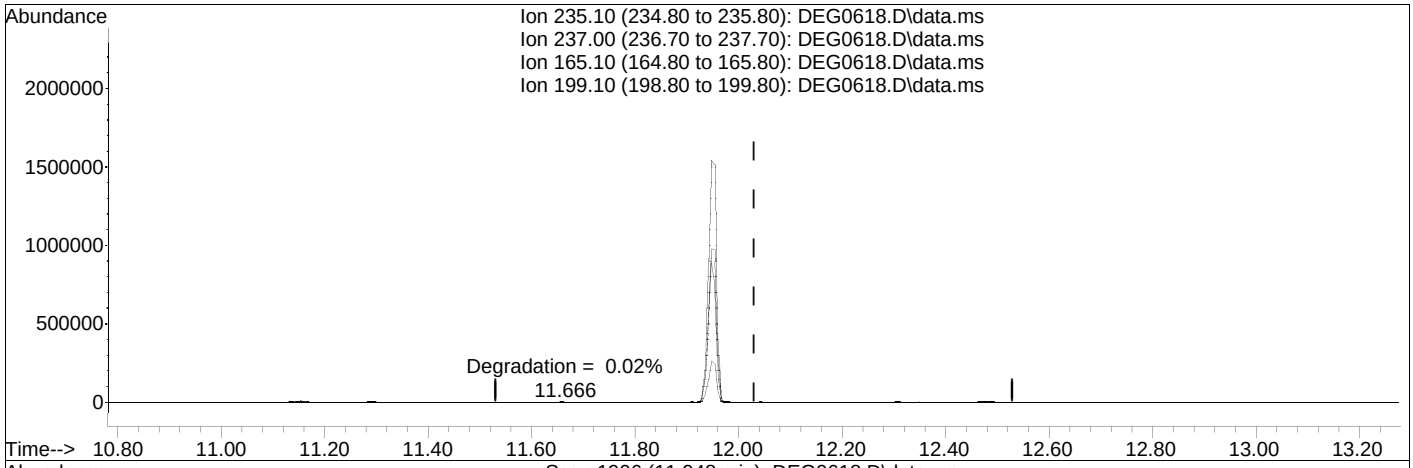
Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: ADP0618.D	Operator	: SV106:als
Date Inj'd	: 6/18/2024 11:00 am	Instrument	: SV 106
Sample	: WG1935854-5,32,,ADP 10751	Quant Date	: 6/18/2024 11:20 am

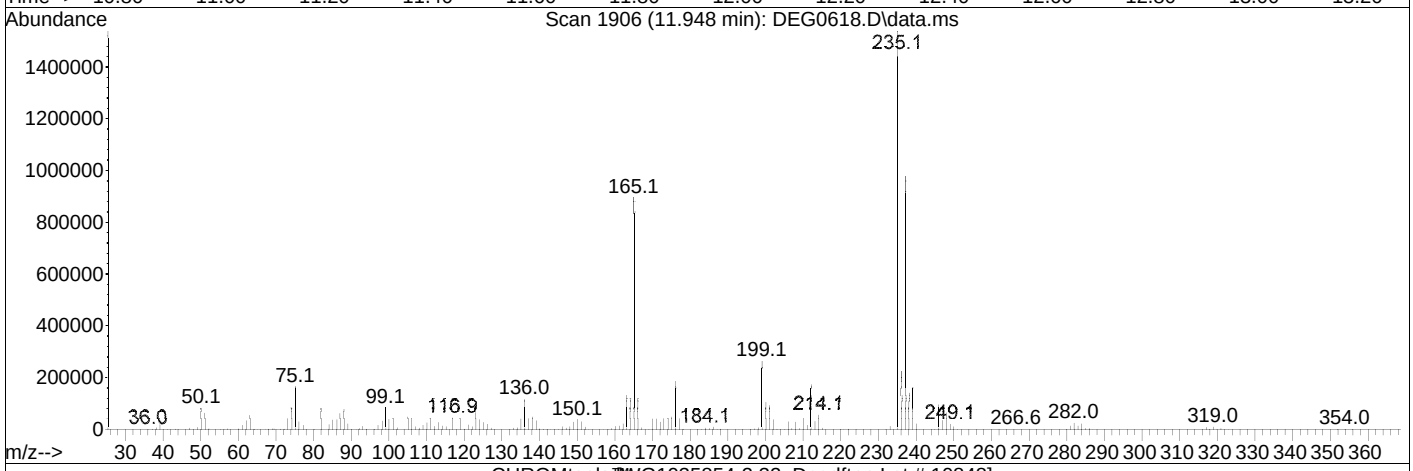
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240618RVT\
Data File : DEG0618.D
Acq On : 18 Jun 2024 9:25 am
Operator : SV106:HNY
Sample : WG1935854-2,32,,Degdftpp Lot # 10848
Misc : WG1935854,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 18 09:44:47 2024
Quant Method : I:\8270\SV106\240618RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools [WG1935854-2,32,,Degdftpp Lot # 10848]

(6) DDT (T)

11.948min (-0.082) 263.94

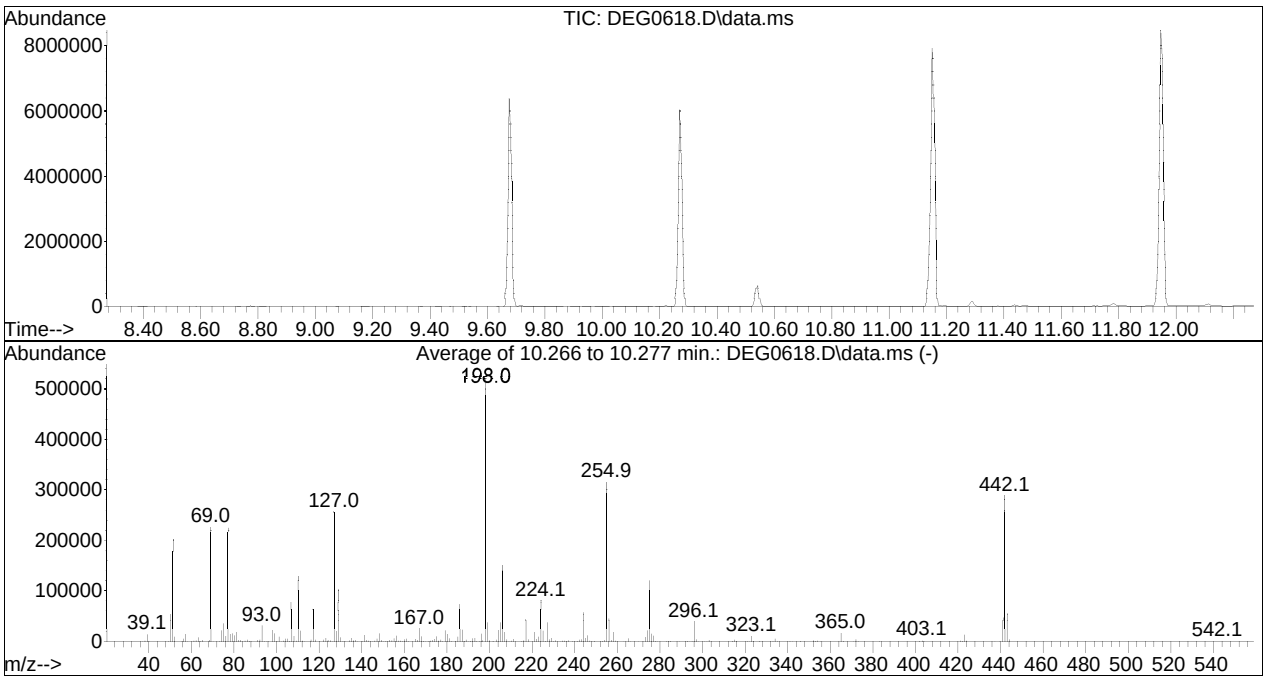
response 1608922

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.55
165.10	44.50	54.30
199.10	14.80	16.81

Data Path : I:\8270\SV106\240618RVT\
Data File : DEG0618.D
Acq On : 18 Jun 2024 9:25 am
Operator : SV106:HNY
Sample : WG1935854-1,32,,Degdftpp Lot # 10848
Misc : WG1935854,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240618RVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 18 11:03:45 2024



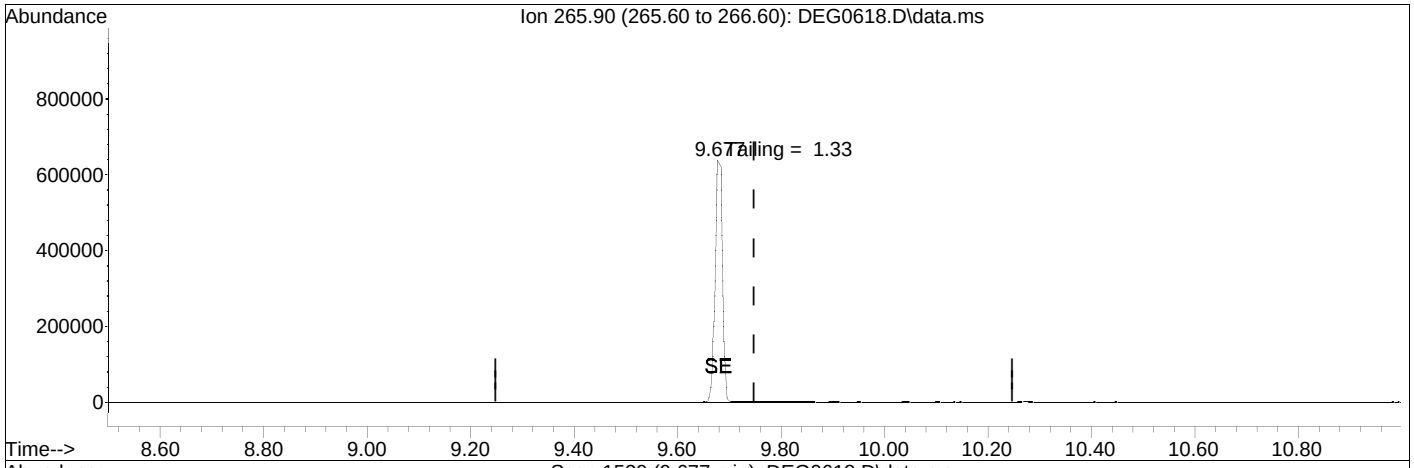
Spectrum Information: Average of 10.266 to 10.277 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	200941	PASS
68	69	0.00	2	1.6	3605	PASS
69	69	100	100	100.0	226080	PASS
70	69	0.00	2	0.4	971	PASS
127	198	10	80	49.1	256233	PASS
197	198	0.00	2	0.6	3110	PASS
198	198	100	100	100.0	522270	PASS
199	198	5	9	6.8	35616	PASS
275	198	10	60	22.8	118948	PASS
365	198	1	100	3.2	16585	PASS
441	442	0.01	24	16.0	46259	PASS
442	198	50	100	55.3	288629	PASS
443	442	15	24	19.3	55629	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240618RVT\
Data File : DEG0618.D
Acq On : 18 Jun 2024 9:25 am
Operator : SV106:HNY
Sample : WG1935854-6,32,,Degdftpp Lot # 10848
Misc : WG1935854,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 18 09:44:47 2024
Quant Method : I:\8270\SV106\240618RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration



CHROMtools [WG1935854-6,32,,Degdftpp Lot # 10848]

(1) Pentachlorophenol (T)

9.677min (-0.071) 286.02

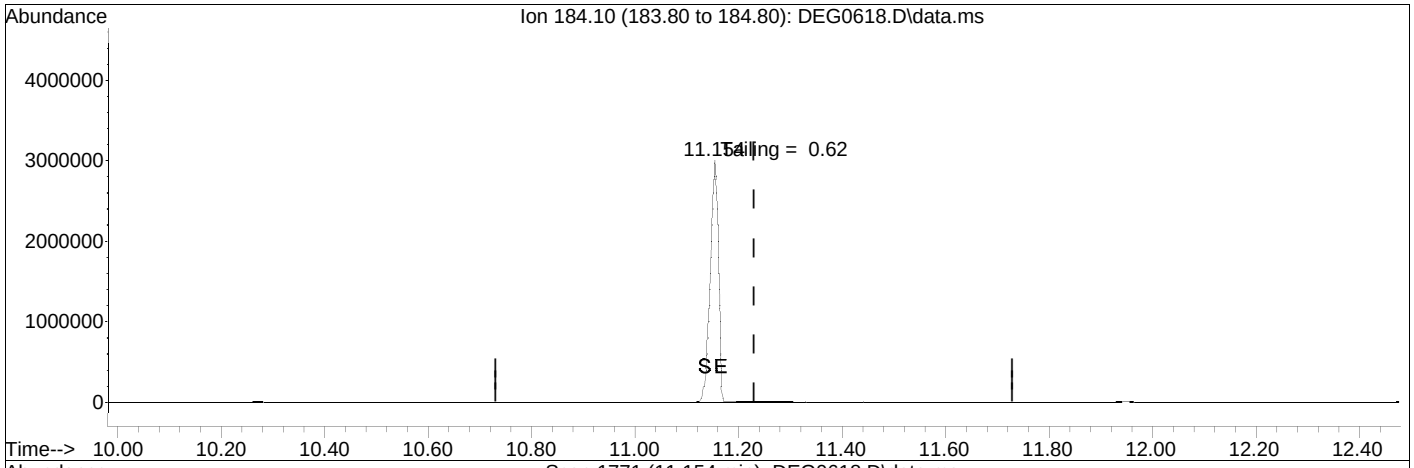
response 600739

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240618RVT\
Data File : DEG0618.D
Acq On : 18 Jun 2024 9:25 am
Operator : SV106:HNY
Sample : WG1935854-7,32,,Degdftpp Lot # 10848
Misc : WG1935854,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 18 09:44:47 2024
Quant Method : I:\8270\SV106\240618RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration



CHROMtools [WG1935854-7,32,,Degdftpp Lot # 10848]

(3) Benzidine (T)

11.154min (-0.076) 311.28

response 3168808

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
n-Nitrosodimethylamine	0.789	0.848	-	-7.5	20	143	0
Pyridine	1.181	1.141	-	3.4	20	114	0
2-Fluorophenol	1.131	1.156	-	-2.2	20	134	0
Aniline	1.89	1.765	-	6.6	20	122	0
2-Chlorophenol	1.23	1.27	-	-3.3	20	131	0
Phenol-d6	1.461	1.652	-	-13.1	20	144	0
Phenol	1.557	1.646	-	-5.7	20	135	0
Bis(2-chloroethyl)ether	1.229	1.208	-	1.7	20	126	0
1,3-Dichlorobenzene	1.423	1.414	-	0.6	20	130	0
1,4-Dichlorobenzene	1.486	1.436	-	3.4	20	132	0
1,2-Dichlorobenzene	1.357	1.379	-	-1.6	20	133	0
Benzyl alcohol	1.189	1.152	-	3.1	20	122	0
Bis(2-chloroisopropyl)ethe	1.817	1.592	-	12.4	20	113	0
2-Methylphenol	1.108	1.148	-	-3.6	20	135	0
Hexachloroethane	0.606	0.601	-	0.8	20	126	0
n-Nitrosodi-n-propylamine	1.034	0.963	-	6.9	20	117	0
3-Methylphenol/4-Methylphe	1.204	1.202	-	0.2	20	129	0
Nitrobenzene-d5	1.564	1.526	-	2.4	20	124	0
Nitrobenzene	1.505	1.453	-	3.5	20	120	0
Isophorone	2.67	2.598	-	2.7	20	122	0
2-Nitrophenol	0.622	0.688	-	-10.6	20	144	0
2,4-Dimethylphenol	1.261	1.03	-	18.3	20	104	0
Bis(2-chloroethoxy)methane	1.675	1.576	-	5.9	20	123	0
2,4-Dichlorophenol	1.149	1.149	-	0	20	125	0
1,2,4-Trichlorobenzene	1.404	1.346	-	4.1	20	126	0
IS1_Naphthalene-d8	1	1	-	0	20	119	0
Naphthalene	1.066	1.051	-	1.4	20	128	0
Benzoic Acid	5	5.702	-	-14	20	153	0
4-Chloroaniline	0.16	0.148	-	7.5	20	117	0
Hexachlorobutadiene	0.275	0.245	-	10.9	20	117	0
p-Chloro-m-cresol	0.327	0.336	-	-2.8	20	126	0
2-Methylnaphthalene	0.711	0.69	-	3	20	123	0
1-Methylnaphthalene	0.297	0.275	-	7.4	20	121	0
Hexachlorocyclopentadiene	0.273	0.252	-	7.7	20	116	0
2,4,6-Trichlorophenol	0.266	0.284	-	-6.8	20	128	0
2,4,5-Trichlorophenol	0.289	0.3	-	-3.8	20	125	0
2-Fluorobiphenyl	0.928	0.844	-	9.1	20	117	0
2-Chloronaphthalene	0.743	0.688	-	7.4	20	118	0
2-Nitroaniline	0.215	0.237	-	-10.2	20	137	0
1,4-Dinitrobenzene	0.114	0.119	-	-4.4	20	125	0
1,3-Dinitrobenzene	0.13	0.13	-	0	20	120	0
Dimethyl phthalate	0.982	0.925	-	5.8	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.142	-	1.1	20	125	0
2,6-Dinitrotoluene	0.197	0.193	-	2	20	121	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	129	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.293	0.339	-	-15.7	20	134	0
Acenaphthene	0.991	0.988	-	0.3	20	118	0
2,4-Dinitrophenol	5	6.155	-	-23.1*	20	157	0
Dibenzofuran	1.734	1.649	-	4.9	20	118	0
2,4-Dinitrotoluene	0.398	0.432	-	-8.5	20	120	0
4-Nitrophenol	0.314	0.357	-	-13.7	20	123	0
2,3,5,6-Tetrachlorophenol	0.353	0.426	-	-20.7*	20	129	0
2,3,4,6-Tetrachlorophenol	0.346	0.404	-	-16.8	20	129	0
Diethyl phthalate	1.443	1.488	-	-3.1	20	118	0
Fluorene	1.363	1.324	-	2.9	20	117	0
4-Chlorophenyl phenyl ethe	0.717	0.654	-	8.8	20	112	0
4-Nitroaniline	0.287	0.34	-	-18.5	20	131	0
4,6-Dinitro-o-cresol	0.224	0.299	-	-33.5*	20	149	0
NDPA/DPA	1.122	1.115	-	0.6	20	116	0
Azobenzene	1.43	1.267	-	11.4	20	105	0
2,4,6-Tribromophenol	0.213	0.232	-	-8.9	20	124	0
4-Bromophenyl phenyl ether	0.427	0.393	-	8	20	110	0
Hexachlorobenzene	0.494	0.45	-	8.9	20	113	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	134	0
IS1_Phenanthrene-d10	1	1	-	0	20	108	0
Phenanthrene	0.988	0.951	-	3.7	20	117	0
Anthracene	0.977	0.983	-	-0.6	20	119	0
Carbazole	0.894	0.948	-	-6	20	121	0
Di-n-butylphthalate	1.089	1.203	-	-10.5	20	124	0
Fluoranthene	1.131	1.147	-	-1.4	20	118	0
Benzidine	0.648	0.779	-	-20.2*	20	128	0
Pyrene	1.194	1.225	-	-2.6	20	121	0
4-Terphenyl-d14	0.861	0.83	-	3.6	20	114	0
Butyl benzyl phthalate	0.463	0.589	-	-27.2*	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.294	1.343	-	-3.8	20	127	0
3,3'-Dichlorobenzidine	0.446	0.516	-	-15.7	20	137	0
Chrysene	1.277	1.232	-	3.5	20	121	0
Bis(2-ethylhexyl)phthalate	0.767	0.947	-	-23.5*	20	146	0
Di-n-octylphthalate	1.257	1.659	-	-32*	20	155	0
Benzo(b)fluoranthene	1.181	1.228	-	-4	20	119	0
Benzo(k)fluoranthene	1.154	1.268	-	-9.9	20	140	0
Benzo(a)pyrene	1.058	1.195	-	-12.9	20	136	0
IS1_Perylene-d12	1	1	-	0	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.041	-	-5.9	20	139	0
Dibenzo(a,h)anthracene	0.935	0.994	-	-6.3	20	136	0
Benzo(ghi)perylene	0.923	1.013	-	-9.8	20	143	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:30		
Lab File ID	: ADP0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Decane	1.537	1.364	-	11.3	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	102	0
Atrazine	0.403	0.419	-	-4	20	109	0
IS3_Phenanthrene-d10	1	1	-	0	20	99	0
n-Octadecane	0.44	0.42	-	4.5	20	96	0
Parathion	0.121	0.139	-	-14.9	20	127	0
3,3'-Dimethylbenzidine	5	4.992	-	0.2	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:54		
Lab File ID	: AP90616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	1.095	1.294	-	-18.2	20	140	0
Acetophenone	1.981	2.234	-	-12.8	20	130	0
m-Toluidine	1.685	2.115	-	-25.5*	20	133	0
2-Chloroaniline	1.619	1.892	-	-16.9	20	131	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.33	0.378	-	-14.5	20	125	0
3-Chloroaniline	0.181	0.21	-	-16	20	120	0
2,6-Dichlorophenol	0.3	0.361	-	-20.3*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.195	-	-13.4	20	131	0
Caprolactam	0.176	0.195	-	-10.8	20	123	0
1,2,4,5-Tetrachlorobenzene	0.461	0.491	-	-6.5	20	120	0
Biphenyl	0.901	0.999	-	-10.9	20	120	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.191	0.24	-	-25.7*	20	131	0
Pentachloronitrobenzene	0.232	0.282	-	-21.6*	20	133	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.451	0.559	-	-23.9*	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:12		
Lab File ID	: AP90618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
Benzaldehyde	1.095	1.28	-	-16.9	20	151	0
Acetophenone	1.981	2.198	-	-11	20	140	0
m-Toluidine	1.685	2.112	-	-25.3*	20	144	0
2-Chloroaniline	1.619	1.864	-	-15.1	20	141	0
IS2_Naphthalene-d8	1	1	-	0	20	113	0
a-Terpineol	0.33	0.386	-	-17	20	141	0
3-Chloroaniline	0.181	0.207	-	-14.4	20	130	0
2,6-Dichlorophenol	0.3	0.371	-	-23.7*	20	151	0
1-chloro-2-nitrobenzene	0.172	0.194	-	-12.8	20	144	0
Caprolactam	0.176	0.204	-	-15.9	20	142	0
1,2,4,5-Tetrachlorobenzene	0.461	0.48	-	-4.1	20	129	0
Biphenyl	0.901	0.986	-	-9.4	20	131	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	0.191	0.25	-	-30.9*	20	149	0
Pentachloronitrobenzene	0.232	0.295	-	-27.2*	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.451	0.587	-	-30.2*	20	145	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.857	-	-8.6	20	109	0
Pyridine	1.181	1.309	-	-10.8	20	99	0
2-Fluorophenol	1.131	1.206	-	-6.6	20	106	0
Aniline	1.89	1.831	-	3.1	20	95	0
2-Chlorophenol	1.23	1.339	-	-8.9	20	104	0
Phenol-d6	1.461	1.707	-	-16.8	20	112	0
Phenol	1.557	1.701	-	-9.2	20	105	0
Bis(2-chloroethyl)ether	1.229	1.236	-	-0.6	20	97	0
1,3-Dichlorobenzene	1.423	1.463	-	-2.8	20	101	0
1,4-Dichlorobenzene	1.486	1.464	-	1.5	20	101	0
1,2-Dichlorobenzene	1.357	1.425	-	-5	20	103	0
Benzyl alcohol	1.189	1.205	-	-1.3	20	96	0
Bis(2-chloroisopropyl)ethe	1.817	1.648	-	9.3	20	88	0
2-Methylphenol	1.108	1.163	-	-5	20	103	0
Hexachloroethane	0.606	0.619	-	-2.1	20	98	0
n-Nitrosodi-n-propylamine	1.034	0.988	-	4.4	20	90	0
3-Methylphenol/4-Methylphe	1.204	1.25	-	-3.8	20	101	0
Nitrobenzene-d5	1.564	1.585	-	-1.3	20	97	0
Nitrobenzene	1.505	1.538	-	-2.2	20	95	0
Isophorone	2.67	2.61	-	2.2	20	93	0
2-Nitrophenol	0.622	0.713	-	-14.6	20	112	0
2,4-Dimethylphenol	1.261	1.057	-	16.2	20	80	0
Bis(2-chloroethoxy)methane	1.675	1.647	-	1.7	20	97	0
2,4-Dichlorophenol	1.149	1.165	-	-1.4	20	96	0
1,2,4-Trichlorobenzene	1.404	1.372	-	2.3	20	97	0
IS1_Naphthalene-d8	1	1	-	0	20	91	0
Naphthalene	1.066	1.064	-	0.2	20	98	0
Benzoic Acid	5	5.473	-	-9.5	20	112	0
4-Chloroaniline	0.16	0.152	-	5	20	91	0
Hexachlorobutadiene	0.275	0.248	-	9.8	20	90	0
p-Chloro-m-cresol	0.327	0.334	-	-2.1	20	95	0
2-Methylnaphthalene	0.711	0.683	-	3.9	20	93	0
1-Methylnaphthalene	0.297	0.28	-	5.7	20	94	0
Hexachlorocyclopentadiene	0.273	0.249	-	8.8	20	87	0
2,4,6-Trichlorophenol	0.266	0.275	-	-3.4	20	94	0
2,4,5-Trichlorophenol	0.289	0.294	-	-1.7	20	93	0
2-Fluorobiphenyl	0.928	0.851	-	8.3	20	89	0
2-Chloronaphthalene	0.743	0.691	-	7	20	90	0
2-Nitroaniline	0.215	0.239	-	-11.2	20	105	0
1,4-Dinitrobenzene	0.114	0.124	-	-8.8	20	99	0
1,3-Dinitrobenzene	0.13	0.139	-	-6.9	20	97	0
Dimethyl phthalate	0.982	0.915	-	6.8	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.156	-	-0.1	20	96	0
2,6-Dinitrotoluene	0.197	0.204	-	-3.6	20	97	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	82	0
3-Nitroaniline	0.293	0.349	-	-19.1	20	104	0
Acenaphthene	0.991	1.018	-	-2.7	20	91	0
2,4-Dinitrophenol	5	6.198	-	-24*	20	119	0
Dibenzofuran	1.734	1.682	-	3	20	91	0
2,4-Dinitrotoluene	0.398	0.453	-	-13.8	20	94	0
4-Nitrophenol	0.314	0.379	-	-20.7*	20	98	0
2,3,5,6-Tetrachlorophenol	0.353	0.425	-	-20.4*	20	97	0
2,3,4,6-Tetrachlorophenol	0.346	0.397	-	-14.7	20	96	0
Diethyl phthalate	1.443	1.502	-	-4.1	20	90	0
Fluorene	1.363	1.351	-	0.9	20	90	0
4-Chlorophenyl phenyl ethe	0.717	0.662	-	7.7	20	85	0
4-Nitroaniline	0.287	0.366	-	-27.5*	20	106	0
4,6-Dinitro-o-cresol	0.224	0.294	-	-31.2*	20	110	0
NDPA/DPA	1.122	1.14	-	-1.6	20	89	0
Azobenzene	1.43	1.343	-	6.1	20	84	0
2,4,6-Tribromophenol	0.213	0.23	-	-8	20	92	0
4-Bromophenyl phenyl ether	0.427	0.392	-	8.2	20	82	0
Hexachlorobenzene	0.494	0.457	-	7.5	20	86	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	101	0
IS1_Phenanthrene-d10	1	1	-	0	20	79	0
Phenanthrene	0.988	0.997	-	-0.9	20	89	0
Anthracene	0.977	1.002	-	-2.6	20	89	0
Carbazole	0.894	1.001	-	-12	20	94	0
Di-n-butylphthalate	1.089	1.256	-	-15.3	20	95	0
Fluoranthene	1.131	1.1	-	2.7	20	83	0
Benzidine	0.648	0.878	-	-35.5*	20	105	0
Pyrene	1.194	1.301	-	-9	20	93	0
4-Terphenyl-d14	0.861	0.871	-	-1.2	20	87	0
Butyl benzyl phthalate	0.463	0.641	-	-38.4*	20	114	0
IS1_Chrysene-d12	1	1	-	0	20	88	0
Benzo(a)anthracene	1.294	1.365	-	-5.5	20	100	0
3,3'-Dichlorobenzidine	0.446	0.536	-	-20.2*	20	110	0
Chrysene	1.277	1.32	-	-3.4	20	100	0
Bis(2-ethylhexyl)phthalate	0.767	0.982	-	-28*	20	117	0
Di-n-octylphthalate	1.257	1.742	-	-38.6*	20	126	0
Benzo(b)fluoranthene	1.181	1.436	-	-21.6*	20	108	0
Benzo(k)fluoranthene	1.154	1.17	-	-1.4	20	100	0
Benzo(a)pyrene	1.058	1.266	-	-19.7	20	112	0
IS1_Perylene-d12	1	1	-	0	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.032	-	-5	20	111	0
Dibenzo(a,h)anthracene	0.935	1.031	-	-10.3	20	113	0
Benzo(ghi)perylene	0.923	1.014	-	-9.9	20	115	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 11:00		
Lab File ID	: ADP0618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	-.05
n-Decane	1.53738	0.00766	-	99.5*	20	1	.01
IS3_Acenaphthene-d10	1	1	-	0	20	80	-.03
Atrazine	0.403	0.446	-	-10.7	20	91	-.03
IS3_Phenanthrene-d10	1	1	-	0	20	84	-.03
n-Octadecane	0.44	0.416	-	5.5	20	81	-.03
Parathion	0.121	0.135	-	-11.6	20	105	-.03
3,3'-Dimethylbenzidine	5	5.425	-	-8.5	20	110	-.04

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 08:51		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.095	1.178	-	-7.6	20	123	0
Acetophenone	1.981	1.957	-	1.2	20	110	0
m-Toluidine	1.685	1.987	-	-17.9	20	121	0
2-Chloroaniline	1.619	1.858	-	-14.8	20	125	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.33	0.249	-	24.5*	20	81	0
3-Chloroaniline	0.181	0.157	-	13.3	20	88	0
2,6-Dichlorophenol	0.3	0.365	-	-21.7*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.169	-	1.7	20	113	0
Caprolactam	0.176	0.132	-	25*	20	82	0
1,2,4,5-Tetrachlorobenzene	0.461	0.494	-	-7.2	20	119	0
Biphenyl	0.901	1.004	-	-11.4	20	119	0
IS2_Acenaphthene-d10	1	1	-	0	20	104	0
Dichloran	0.191	0.257	-	-34.6*	20	145	0
Pentachloronitrobenzene	0.232	0.277	-	-19.4	20	135	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.451	0.549	-	-21.7*	20	127	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.654	-	17.1	20	83	0
Pyridine	1.181	1.111	-	5.9	20	84	0
2-Fluorophenol	1.131	1.074	-	5	20	94	0
Aniline	1.89	1.624	-	14.1	20	85	0
2-Chlorophenol	1.23	1.217	-	1.1	20	94	0
Phenol-d6	1.461	1.445	-	1.1	20	95	0
Phenol	1.557	1.418	-	8.9	20	88	0
Bis(2-chloroethyl)ether	1.229	0.961	-	21.8*	20	75	0
1,3-Dichlorobenzene	1.423	1.427	-	-0.3	20	99	0
1,4-Dichlorobenzene	1.486	1.457	-	2	20	101	0
1,2-Dichlorobenzene	1.357	1.361	-	-0.3	20	99	0
Benzyl alcohol	1.189	0.955	-	19.7	20	76	0
Bis(2-chloroisopropyl)ethe	1.817	0.879	-	51.6*	20	47	0
2-Methylphenol	1.108	1.022	-	7.8	20	91	0
Hexachloroethane	0.606	0.528	-	12.9	20	83	0
n-Nitrosodi-n-propylamine	1.034	0.725	-	29.9*	20	66	0
3-Methylphenol/4-Methylphe	1.204	1.165	-	3.2	20	94	0
Nitrobenzene-d5	1.564	1.2	-	23.3*	20	73	0
Nitrobenzene	1.505	1.175	-	21.9*	20	73	0
Isophorone	2.67	1.979	-	25.9*	20	70	0
2-Nitrophenol	0.622	0.687	-	-10.5	20	108	0
2,4-Dimethylphenol	1.261	1.006	-	20.2*	20	76	0
Bis(2-chloroethoxy)methane	1.675	1.255	-	25.1*	20	74	0
2,4-Dichlorophenol	1.149	1.144	-	0.4	20	94	0
1,2,4-Trichlorobenzene	1.404	1.352	-	3.7	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.066	1.028	-	3.6	20	94	0
Benzoic Acid	5	4.785	-	4.3	20	96	0
4-Chloroaniline	0.16	0.117	-	26.9*	20	69	0
Hexachlorobutadiene	0.275	0.251	-	8.7	20	90	0
p-Chloro-m-cresol	0.327	0.286	-	12.5	20	81	0
2-Methylnaphthalene	0.711	0.709	-	0.3	20	95	0
1-Methylnaphthalene	0.297	0.254	-	14.5	20	84	0
Hexachlorocyclopentadiene	0.273	0.307	-	-12.5	20	106	0
2,4,6-Trichlorophenol	0.266	0.286	-	-7.5	20	97	0
2,4,5-Trichlorophenol	0.289	0.297	-	-2.8	20	93	0
2-Fluorobiphenyl	0.928	0.863	-	7	20	90	0
2-Chloronaphthalene	0.743	0.695	-	6.5	20	89	0
2-Nitroaniline	0.215	0.229	-	-6.5	20	99	0
1,4-Dinitrobenzene	0.114	0.121	-	-6.1	20	95	0
1,3-Dinitrobenzene	0.13	0.133	-	-2.3	20	92	0
Dimethyl phthalate	0.982	0.886	-	9.8	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.117	-	3.3	20	91	0
2,6-Dinitrotoluene	0.197	0.195	-	1	20	91	0
1,2-Dinitrobenzene	0.078	0.081	-	-3.8	20	94	0
IS1_Acenaphthene-d10	1	1	-	0	20	83	0
3-Nitroaniline	0.293	0.325	-	-10.9	20	97	0
Acenaphthene	0.991	1.01	-	-1.9	20	91	0
2,4-Dinitrophenol	5	6.319	-	-26.4*	20	122	0
Dibenzofuran	1.734	1.636	-	5.7	20	88	0
2,4-Dinitrotoluene	0.398	0.415	-	-4.3	20	87	0
4-Nitrophenol	0.314	0.269	-	14.3	20	70	0
2,3,5,6-Tetrachlorophenol	0.353	0.441	-	-24.9*	20	101	0
2,3,4,6-Tetrachlorophenol	0.346	0.407	-	-17.6	20	98	0
Diethyl phthalate	1.443	1.357	-	6	20	81	0
Fluorene	1.363	1.316	-	3.4	20	88	0
4-Chlorophenyl phenyl ethe	0.717	0.684	-	4.6	20	88	0
4-Nitroaniline	0.287	0.321	-	-11.8	20	93	0
4,6-Dinitro-o-cresol	0.224	0.292	-	-30.4*	20	110	0
NDPA/DPA	1.122	1.108	-	1.2	20	87	0
Azobenzene	1.43	0.985	-	31.1*	20	62	0
2,4,6-Tribromophenol	0.213	0.254	-	-19.2	20	102	0
4-Bromophenyl phenyl ether	0.427	0.413	-	3.3	20	87	0
Hexachlorobenzene	0.494	0.51	-	-3.2	20	96	0
Pentachlorophenol	0.288	0.358	-	-24.3*	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	80	0
Phenanthrene	0.988	0.949	-	3.9	20	86	0
Anthracene	0.977	0.974	-	0.3	20	87	0
Carbazole	0.894	0.926	-	-3.6	20	88	0
Di-n-butylphthalate	1.089	1.139	-	-4.6	20	87	0
Fluoranthene	1.131	1.143	-	-1.1	20	87	0
Benzidine	0.648	0.789	-	-21.8*	20	96	0
Pyrene	1.194	1.242	-	-4	20	91	0
4-Terphenyl-d14	0.861	0.863	-	-0.2	20	88	0
Butyl benzyl phthalate	0.463	0.532	-	-14.9	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	86	0
Benzo(a)anthracene	1.294	1.327	-	-2.6	20	95	0
3,3'-Dichlorobenzidine	0.446	0.513	-	-15	20	103	0
Chrysene	1.277	1.231	-	3.6	20	92	0
Bis(2-ethylhexyl)phthalate	0.767	0.874	-	-14	20	102	0
Di-n-octylphthalate	1.257	1.571	-	-25*	20	111	0
Benzo(b)fluoranthene	1.181	1.383	-	-17.1	20	102	0
Benzo(k)fluoranthene	1.154	1.236	-	-7.1	20	103	0
Benzo(a)pyrene	1.058	1.292	-	-22.1*	20	112	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.12	-	-13.9	20	124	0
Dibenzo(a,h)anthracene	0.935	1.098	-	-17.4	20	124	0
Benzo(ghi)perylene	0.923	1.056	-	-14.4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:39		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Decane	1.537	0.919	-	40.2*	20	67	0
IS3_Acenaphthene-d10	1	1	-	0	20	105	0
Atrazine	0.403	0.422	-	-4.7	20	113	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.44	0.285	-	35.2*	20	65	0
Parathion	0.121	0.122	-	-0.8	20	111	0
3,3'-Dimethylbenzidine	5	5.199	-	-4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	111	0
n-Nitrosodimethylamine	0.704	0.761	-	-8.1	20	122	0
Pyridine	1.199	1.157	-	3.5	20	111	0
2-Fluorophenol	1.069	1.075	-	-0.6	20	115	0
Aniline	1.713	1.697	-	0.9	20	115	0
2-Chlorophenol	1.178	1.204	-	-2.2	20	118	0
Phenol-d6	1.322	1.361	-	-3	20	119	0
Phenol	1.438	1.482	-	-3.1	20	121	0
Bis(2-chloroethyl)ether	1.185	1.206	-	-1.8	20	122	0
1,3-Dichlorobenzene	1.452	1.439	-	0.9	20	117	0
1,4-Dichlorobenzene	1.478	1.473	-	0.3	20	118	0
1,2-Dichlorobenzene	1.426	1.404	-	1.5	20	116	0
Benzyl alcohol	1	0.976	-	2.4	20	114	0
Bis(2-chloroisopropyl)ethe	1.623	1.719	-	-5.9	20	127	0
2-Methylphenol	1.031	1.029	-	0.2	20	115	0
Hexachloroethane	0.545	0.566	-	-3.9	20	121	0
n-Nitrosodi-n-propylamine	0.879	0.857	-	2.5	20	114	0
3-Methylphenol/4-Methylphe	1.084	1.102	-	-1.7	20	113	0
Nitrobenzene-d5	1.165	1.28	-	-9.9	20	123	0
Nitrobenzene	1.197	1.314	-	-9.8	20	123	0
Isophorone	2.31	2.22	-	3.9	20	109	0
2-Nitrophenol	0.533	0.571	-	-7.1	20	127	0
2,4-Dimethylphenol	1.088	0.953	-	12.4	20	100	0
Bis(2-chloroethoxy)methane	1.508	1.515	-	-0.5	20	119	0
2,4-Dichlorophenol	1.094	1.117	-	-2.1	20	113	0
1,2,4-Trichlorobenzene	1.318	1.27	-	3.6	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.996	0.972	-	2.4	20	118	0
Benzoic Acid	5	5.412	-	-8.2	20	134	0
4-Chloroaniline	0.126	0.125	-	0.8	20	118	0
Hexachlorobutadiene	0.211	0.204	-	3.3	20	117	0
p-Chloro-m-cresol	0.272	0.264	-	2.9	20	108	0
2-Methylnaphthalene	0.688	0.66	-	4.1	20	113	0
1-Methylnaphthalene	0.235	0.234	-	0.4	20	119	0
Hexachlorocyclopentadiene	0.205	0.206	-	-0.5	20	118	0
2,4,6-Trichlorophenol	0.237	0.229	-	3.4	20	106	0
2,4,5-Trichlorophenol	0.251	0.246	-	2	20	108	0
2-Fluorobiphenyl	0.866	0.791	-	8.7	20	108	0
2-Chloronaphthalene	0.715	0.662	-	7.4	20	110	0
2-Nitroaniline	0.173	0.179	-	-3.5	20	115	0
1,4-Dinitrobenzene	0.087	0.094	-	-8	20	139	0
1,3-Dinitrobenzene	0.109	0.109	-	0	20	124	0
Dimethyl phthalate	0.839	0.773	-	7.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.027	-	4.8	20	110	0
2,6-Dinitrotoluene	0.153	0.157	-	-2.6	20	111	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	113	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.259	0.296	-	-14.3	20	119	0
Acenaphthene	1.081	1.042	-	3.6	20	110	0
2,4-Dinitrophenol	5	5.367	-	-7.3	20	138	0
Dibenzofuran	1.757	1.703	-	3.1	20	109	0
2,4-Dinitrotoluene	5	4.815	-	3.7	20	117	0
4-Nitrophenol	0.221	0.248	-	-12.2	20	123	0
2,3,5,6-Tetrachlorophenol	0.318	0.334	-	-5	20	107	0
2,3,4,6-Tetrachlorophenol	0.314	0.321	-	-2.2	20	103	0
Diethyl phthalate	1.301	1.236	-	5	20	106	0
Fluorene	1.328	1.29	-	2.9	20	108	0
4-Chlorophenyl phenyl ethe	0.672	0.643	-	4.3	20	108	0
4-Nitroaniline	0.262	0.282	-	-7.6	20	116	0
4,6-Dinitro-o-cresol	5	4.762	-	4.8	20	128	0
NDPA/DPA	1.131	1.107	-	2.1	20	108	0
Azobenzene	1.259	1.261	-	-0.2	20	108	0
2,4,6-Tribromophenol	0.171	0.154	-	9.9	20	90	0
4-Bromophenyl phenyl ether	0.376	0.328	-	12.8	20	98	0
Hexachlorobenzene	0.431	0.355	-	17.6	20	94	0
Pentachlorophenol	0.252	0.231	-	8.3	20	100	0
IS1_Phenanthrene-d10	1	1	-	0	20	98	0
Phenanthrene	1.038	1.02	-	1.7	20	106	0
Anthracene	1.03	1.032	-	-0.2	20	108	0
Carbazole	0.928	0.916	-	1.3	20	102	0
Di-n-butylphthalate	1.088	1.002	-	7.9	20	94	0
Fluoranthene	1.186	1.154	-	2.7	20	104	0
Benzidine	0.721	0.624	-	13.5	20	91	0
Pyrene	1.269	1.255	-	1.1	20	106	0
4-Terphenyl-d14	0.875	0.778	-	11.1	20	96	0
Butyl benzyl phthalate	5	4.039	-	19.2	20	95	0
IS1_Chrysene-d12	1	1	-	0	20	90	0
Benzo(a)anthracene	1.335	1.296	-	2.9	20	96	0
3,3'-Dichlorobenzidine	0.43	0.429	-	0.2	20	89	0
Chrysene	1.276	1.295	-	-1.5	20	100	0
Bis(2-ethylhexyl)phthalate	5	4.4	-	12	20	92	0
Di-n-octylphthalate	5	4.131	-	17.4	20	89	0
Benzo(b)fluoranthene	1.178	1.166	-	1	20	95	0
Benzo(k)fluoranthene	1.154	1.101	-	4.6	20	90	0
Benzo(a)pyrene	1.025	1.044	-	-1.9	20	96	0
IS1_Perylene-d12	1	1	-	0	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.017	-	-6.8	20	95	0
Dibenzo(a,h)anthracene	0.953	1.049	-	-10.1	20	90	0
Benzo(ghi)perylene	0.928	0.993	-	-7	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:32		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
Benzaldehyde	1.024	1.156	-	-12.9	20	141	0
Acetophenone	1.77	1.995	-	-12.7	20	137	0
m-Toluidine	1.599	1.951	-	-22*	20	140	0
2-Chloroaniline	1.546	1.774	-	-14.7	20	138	0
IS2_Naphthalene-d8	1	1	-	0	20	111	0
a-Terpineol	0.276	0.329	-	-19.2	20	142	0
3-Chloroaniline	0.147	0.182	-	-23.8*	20	146	0
2,6-Dichlorophenol	0.29	0.356	-	-22.8*	20	141	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	156	0
Caprolactam	0.149	0.177	-	-18.8	20	139	0
1,2,4,5-Tetrachlorobenzene	0.402	0.434	-	-8	20	131	0
Biphenyl	0.929	1.025	-	-10.3	20	134	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	6.082	-	-21.6*	20	166	0
Pentachloronitrobenzene	5	5.875	-	-17.5	20	148	0
IS2_Phenanthrene-d10	1	1	-	0	20	107	0
Diphenamid	0.445	0.475	-	-6.7	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:58		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
n-Decane	1.447	1.366	-	5.6	20	115	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.347	0.339	-	2.3	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	106	0
n-Octadecane	0.393	0.365	-	7.1	20	97	0
Parathion	5	4.557	-	8.9	20	107	0
3,3'-Dimethylbenzidine	0.696	0.553	-	20.5*	20	88	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240619aRVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 8:51 am
Operator : SV106:sz
Sample : wg1936417-4,32,,AP9 10770 gmr0616A
Misc : wg1936417,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 10:14:09 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:14:37 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
28	T	Benzaldehyde	1.095	1.178	-7.6	123	0.00
29	T	Acetophenone	1.981	1.957	1.2	110	0.00
30	T	m-Toluidine	1.685	1.987	-17.9	121	0.00
31	T	2-Chloroaniline	1.619	1.858	-14.8	125	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	101	0.00
55	T	a-Terpineol	0.330	0.249	24.5#	81	0.00
56	T	3-Chloroaniline	0.181	0.157	13.3	88	0.00
57	T	2,6-Dichlorophenol	0.300	0.365	-21.7#	133	0.00
58	T	1-chloro-2-nitrobenzene	0.172	0.169	1.7	113	0.00
59	T	Caprolactam	0.176	0.132	25.0#	82	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.461	0.494	-7.2	119	0.00
61	T	Biphenyl	0.901	1.004	-11.4	119	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
83	T	Dichloran	0.191	0.257	-34.6#	145	0.00
84	T	Pentachloronitrobenzene	0.232	0.277	-19.4	135	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	102	0.00
98	T	Diphenamid	0.451	0.549	-21.7#	127	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 8:51 am
Operator : SV106:sz
Sample : wg1936417-4,32,,AP9 10770 gmr0616A
Misc : wg1936417,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 10:14:09 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:14:37 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.860	152	60712	4.000	ug/ml	0.00
54) IS2_Naphthalene-d8	6.613	136	221960	4.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	8.407	164	147055	4.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	9.801	188	316753	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.690	105	89426	5.379	ug/ml	86
29) Acetophenone	5.589	105	148518	4.939	ug/ml#	79
30) m-Toluidine	5.725	106	150797	5.897	ug/ml	96
31) 2-Chloroaniline	6.184	127	140990	5.737	ug/ml#	90
55) a-Terpineol	6.748	59	69055	3.767	ug/ml#	60
56) 3-Chloroaniline	6.754	65	43587	4.336	ug/ml	98
57) 2,6-Dichlorophenol	6.772	162	101355	6.094	ug/ml	95
58) 1-chloro-2-nitrobenzene	7.048	111	46895	4.923	ug/ml#	1
59) Caprolactam	7.107	55	36598	3.748	ug/ml#	40
60) 1,2,4,5-Tetrachloroben...	7.578	216	136983	5.360	ug/ml	98
61) Biphenyl	7.889	154	278611	5.572	ug/ml	99
83) Dichloran	9.536	206	47235	6.713	ug/ml#	62
84) Pentachloronitrobenzene	9.672	237	50946	5.969	ug/ml#	76
98) Diphenamid	10.742	167	217319	6.081	ug/ml#	63

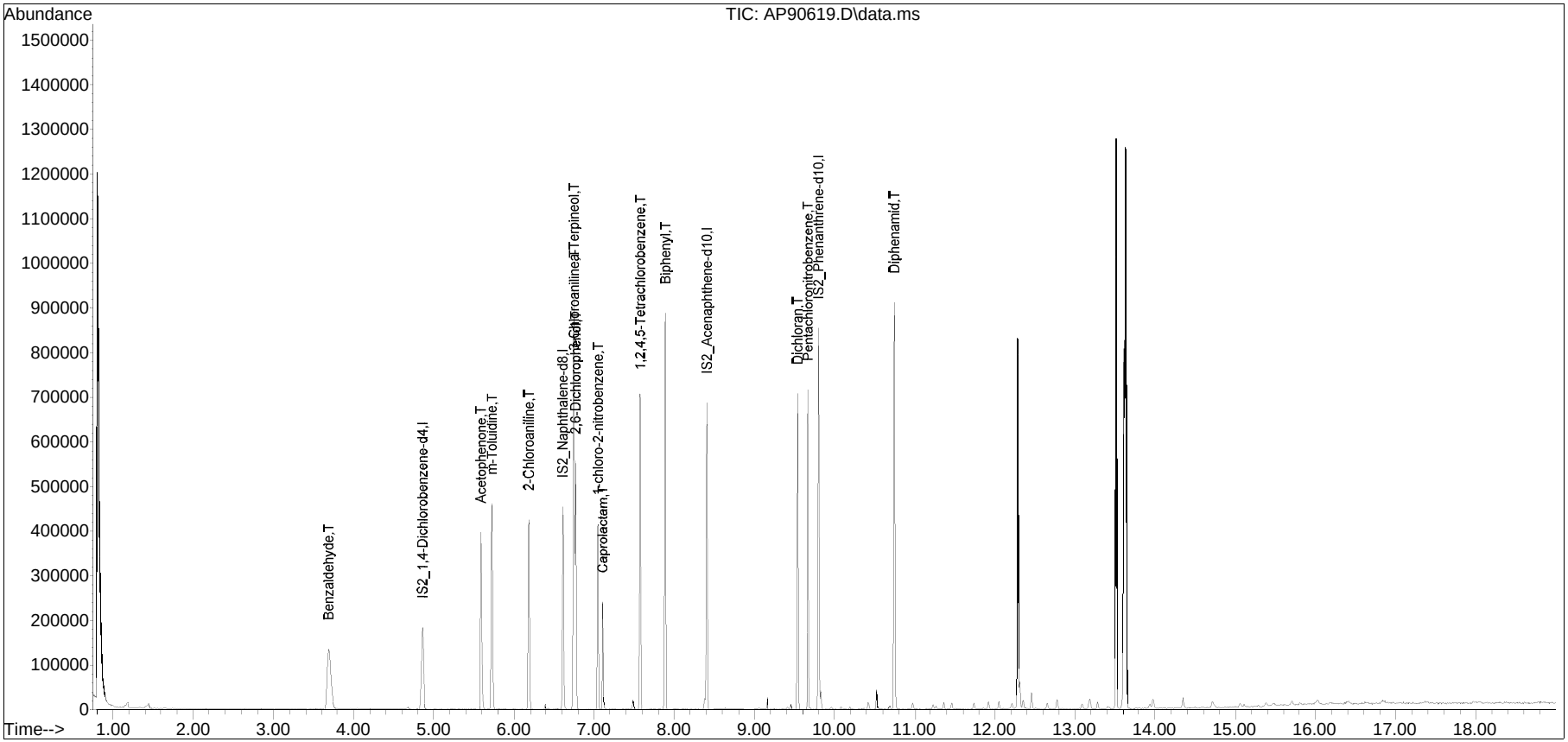
(#) = qualifier out of range (m) = manual integration (+) = signals summed

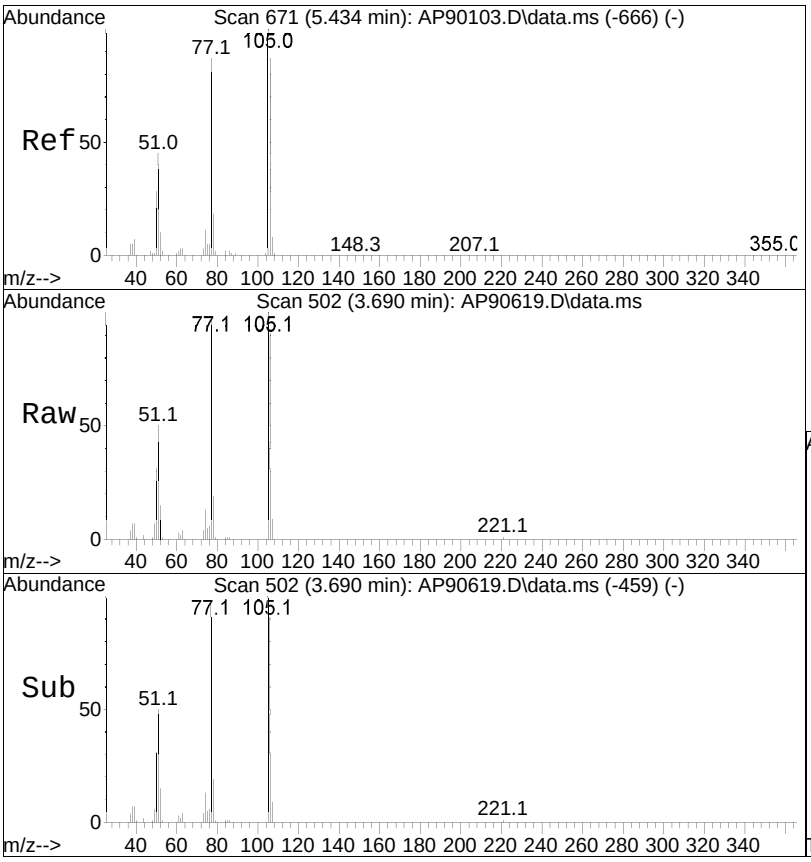
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 8:51 am
Operator : SV106:sz
Sample : wg1936417-4,32,,AP9 10770 gmr0616A
Misc : wg1936417,,ical21056
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 10:14:09 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:14:37 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

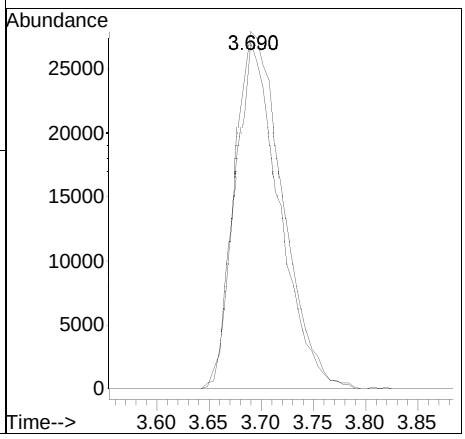


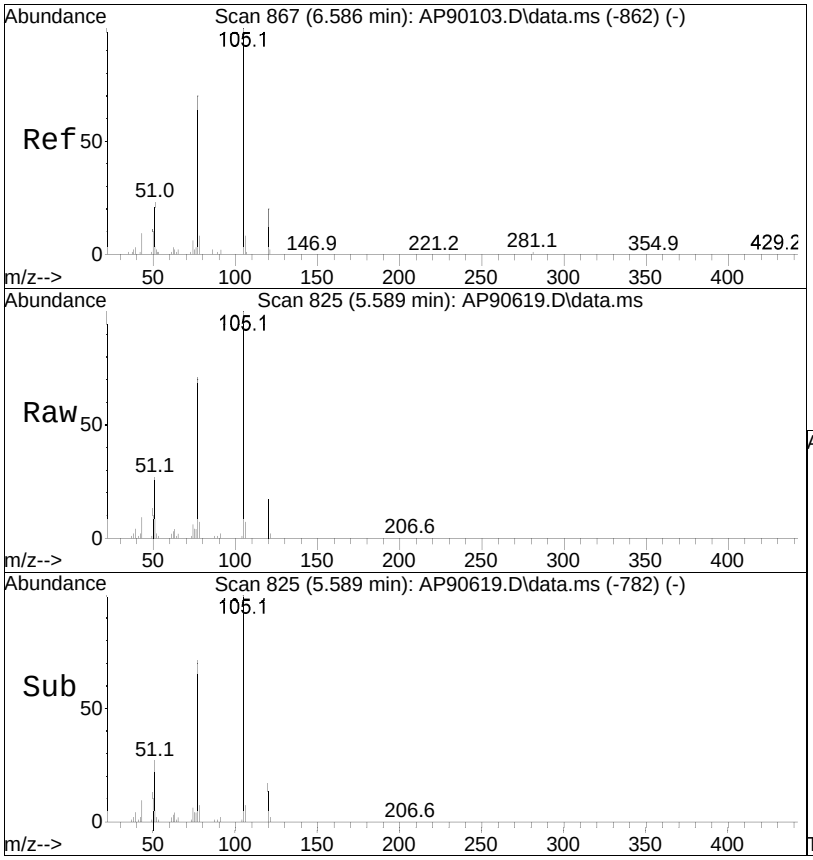


#28
Benzaldehyde
Concen: 5.38 ug/ml
RT: 3.690 min Scan# 502
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:105 Resp: 89426

Ion	Ratio	Lower	Upper
105	100		
77	88.9	82.2	123.4

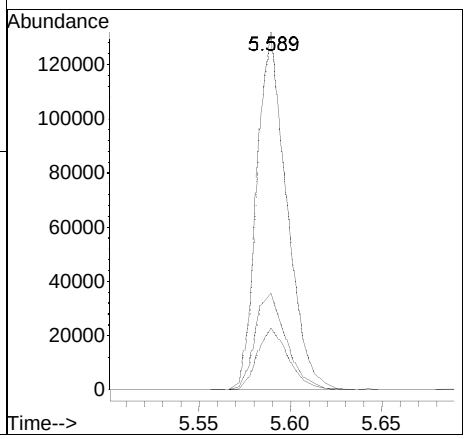


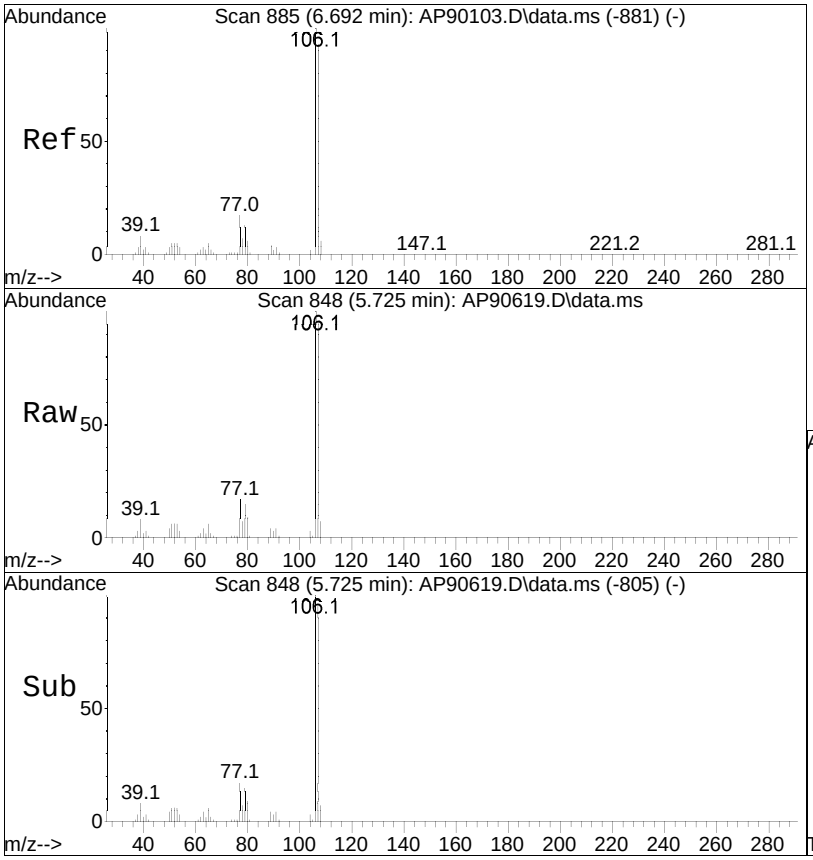


#29
Acetophenone
Concen: 4.94 ug/ml
RT: 5.589 min Scan# 825
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:105 Resp: 148518

Ion	Ratio	Lower	Upper
105	100		
120	17.9	20.5	30.7#
51	28.3	34.9	52.3#

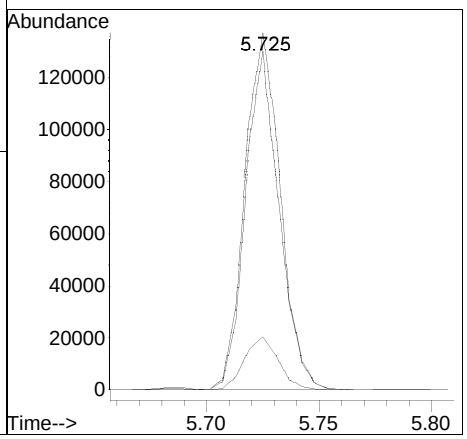


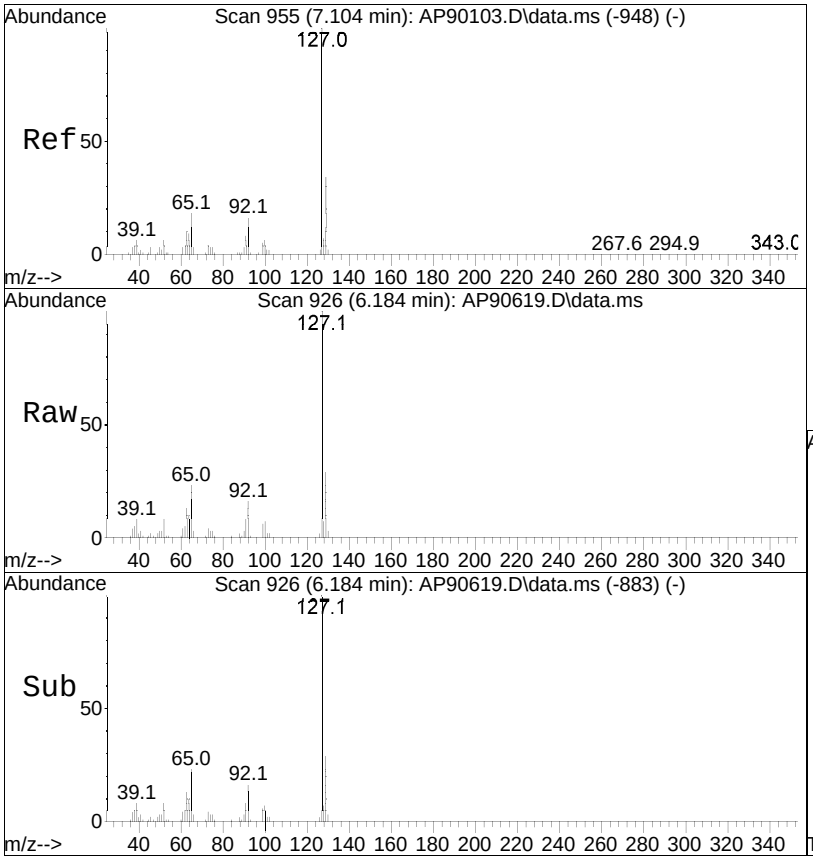


#30
m-Toluidine
Concen: 5.90 ug/ml
RT: 5.725 min Scan# 848
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:106 Resp: 150797

Ion	Ratio	Lower	Upper
106	100		
107	89.8	75.7	113.5
79	14.2	11.8	17.8

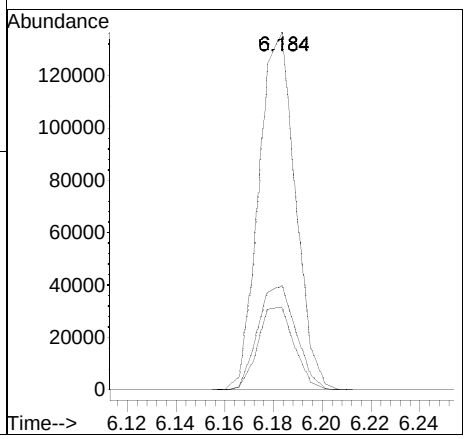


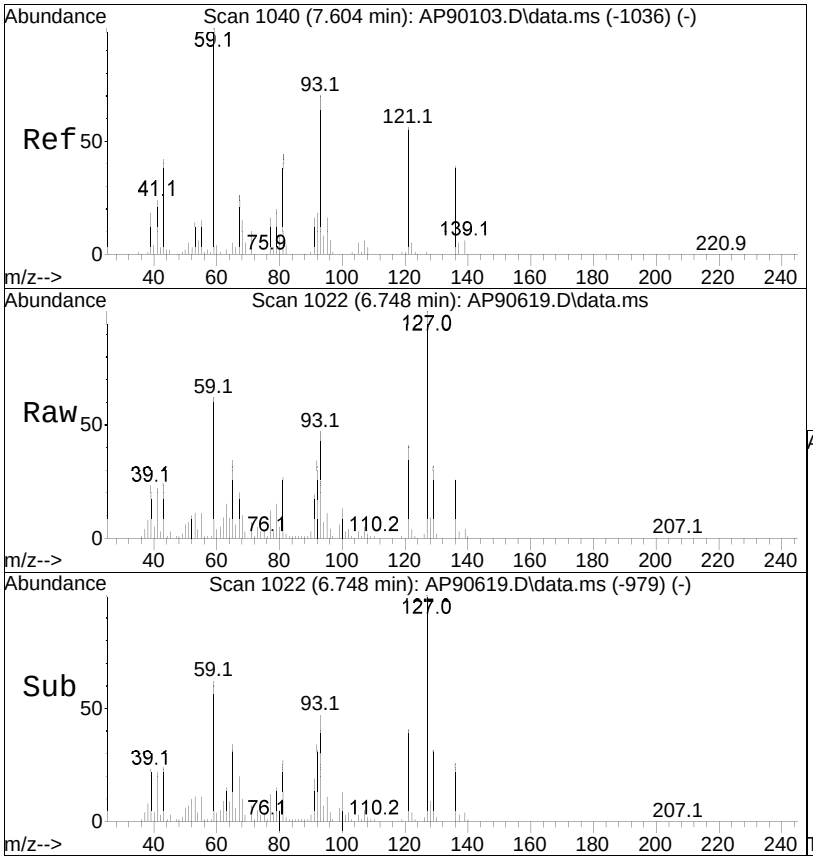


#31
2-Chloroaniline
Concen: 5.74 ug/ml
RT: 6.184 min Scan# 926
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:127 Resp: 140990

Ion	Ratio	Lower	Upper
127	100		
129	30.8	25.9	38.9
65	23.4	26.3	39.5#

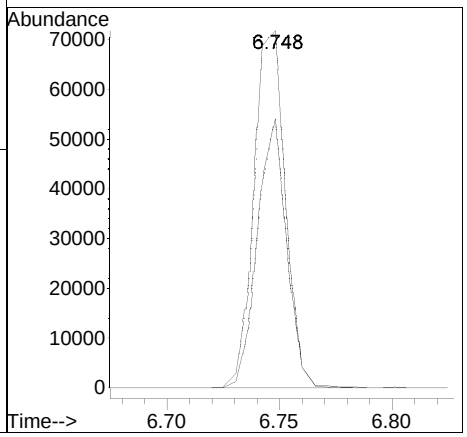


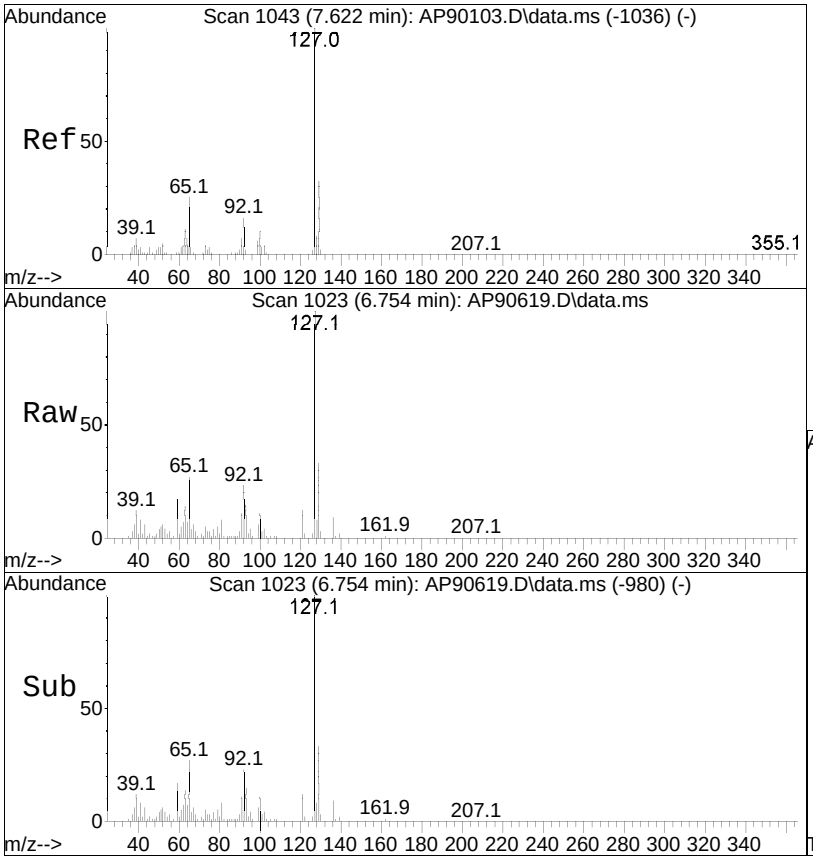


#55
a-Terpineol
Concen: 3.77 ug/ml
RT: 6.748 min Scan# 1022
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion: 59 Resp: 69055

Ion	Ratio	Lower	Upper
59	100		
93	70.3	35.6	53.4#

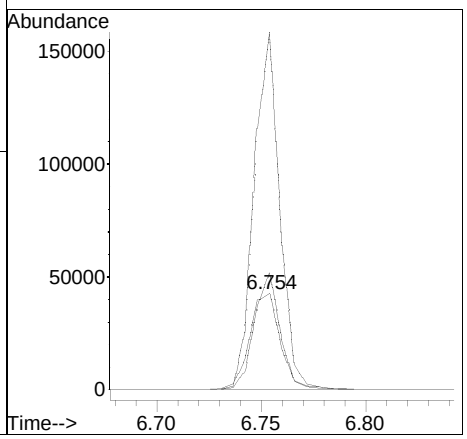


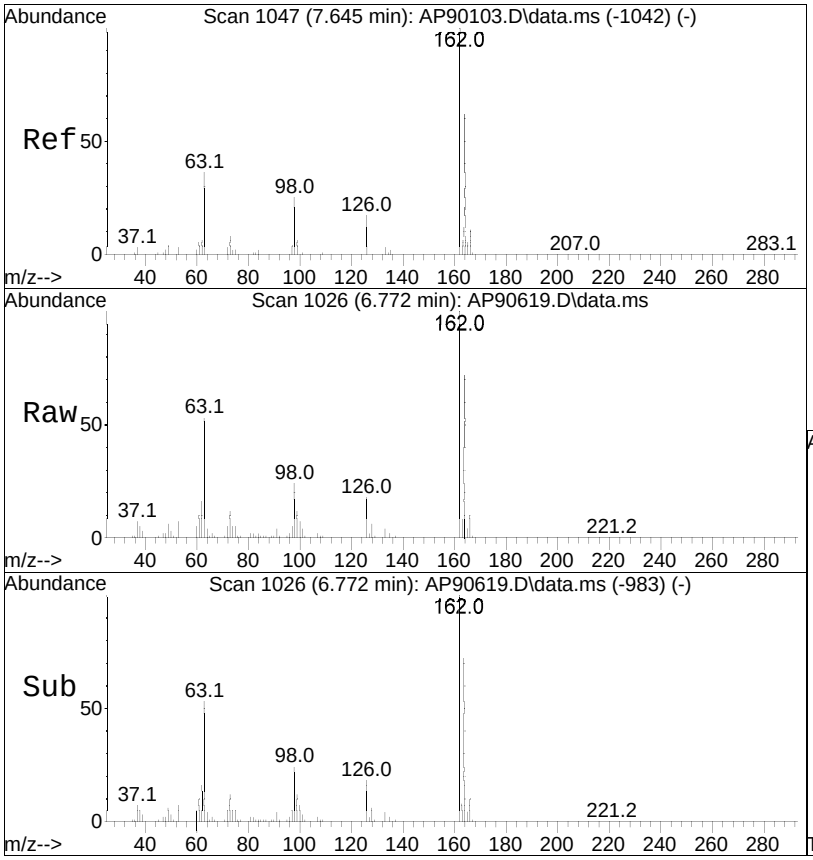


#56
3-Chloroaniline
Concen: 4.34 ug/ml
RT: 6.754 min Scan# 1023
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion: 65 Resp: 43587

Ion	Ratio	Lower	Upper
65	100		
127	306.6	243.2	364.8
129	101.5	78.8	118.2

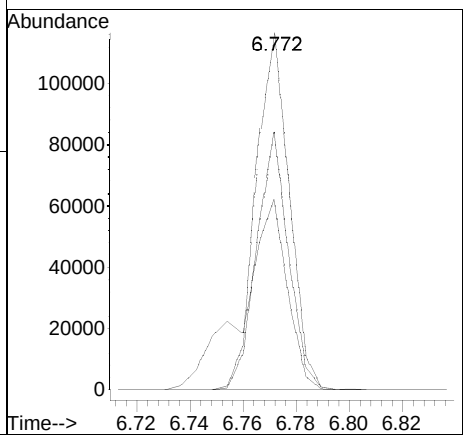


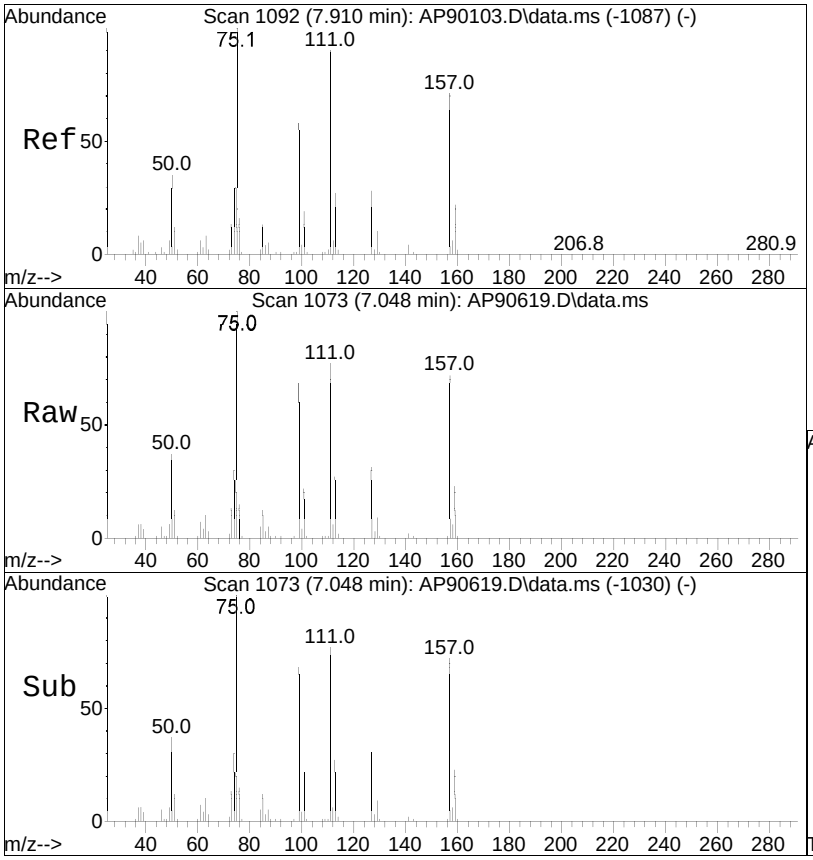


#57
2,6-Dichlorophenol
Concen: 6.09 ug/ml
RT: 6.772 min Scan# 1026
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:162 Resp: 101355

Ion	Ratio	Lower	Upper
162	100		
164	69.0	51.1	76.7
63	72.3	60.8	91.2

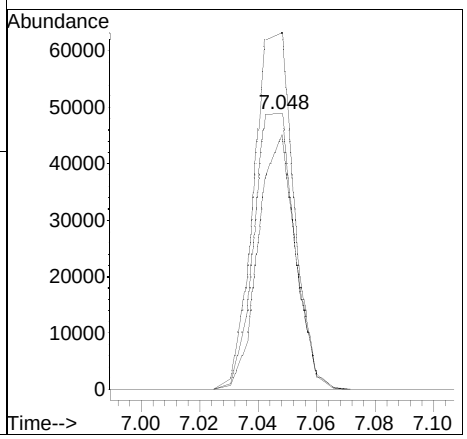


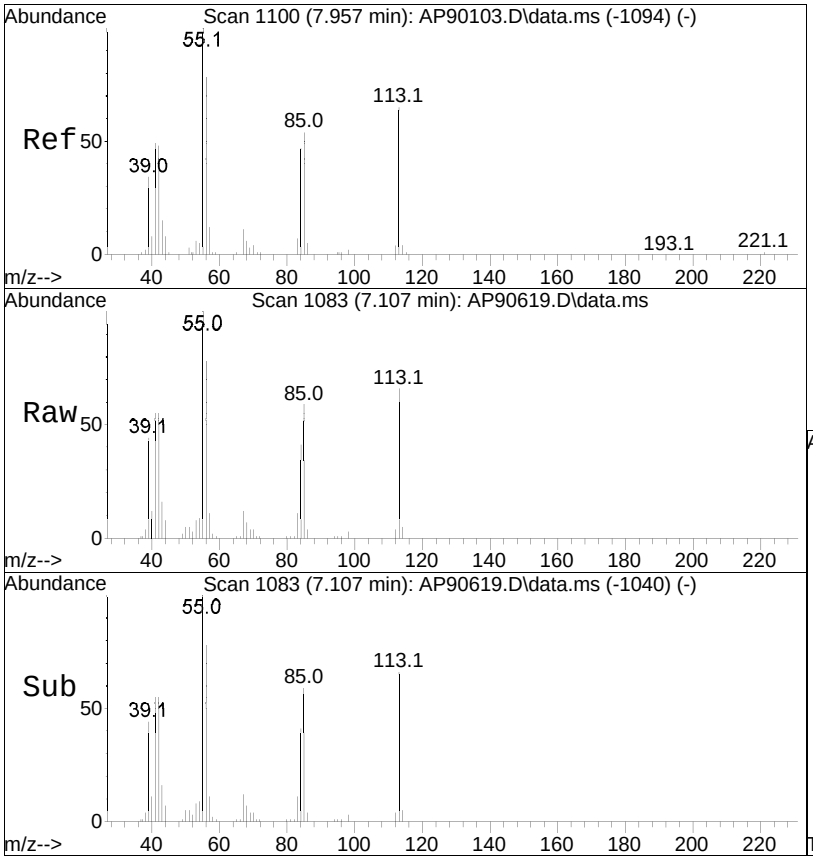


#58
1-chloro-2-nitrobenzene
Concen: 4.92 ug/ml
RT: 7.048 min Scan# 1073
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:111 Resp: 46895

Ion	Ratio	Lower	Upper
111	100		
157	84.6	0.0	0.0#
75	127.6	28.2	42.2#

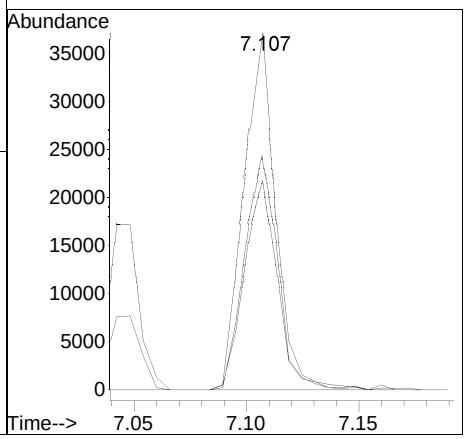


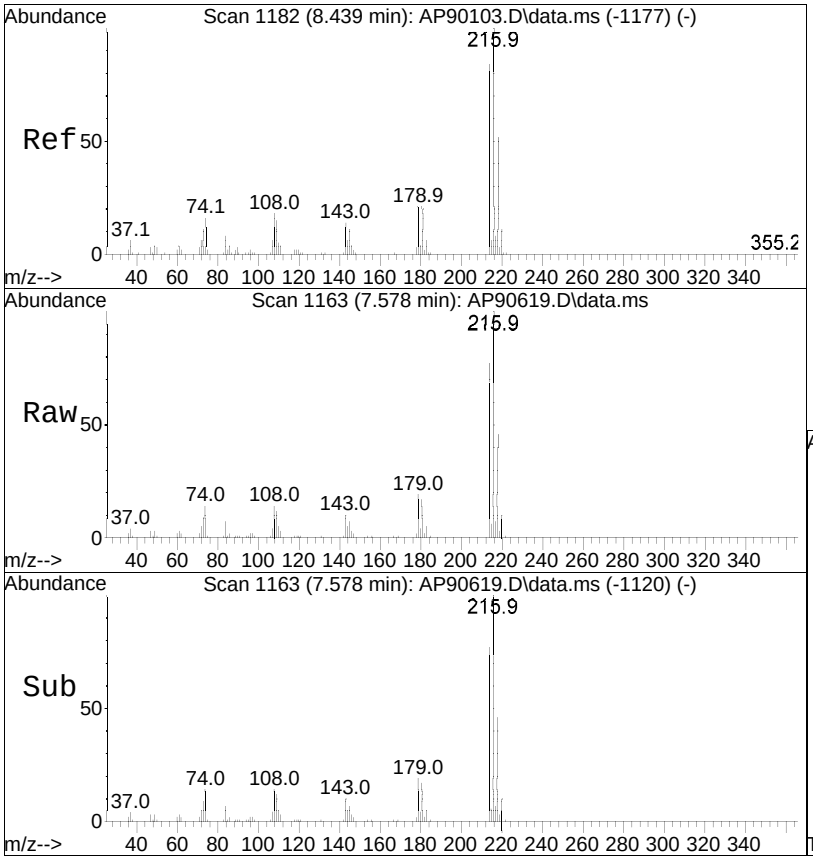


#59
Caprolactam
Concen: 3.75 ug/ml
RT: 7.107 min Scan# 1083
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion: 55 Resp: 36598

Ion	Ratio	Lower	Upper
55	100		
85	60.7	19.8	29.6#
113	68.1	29.6	44.4#

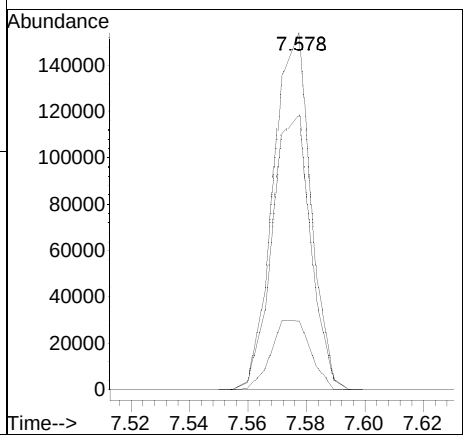


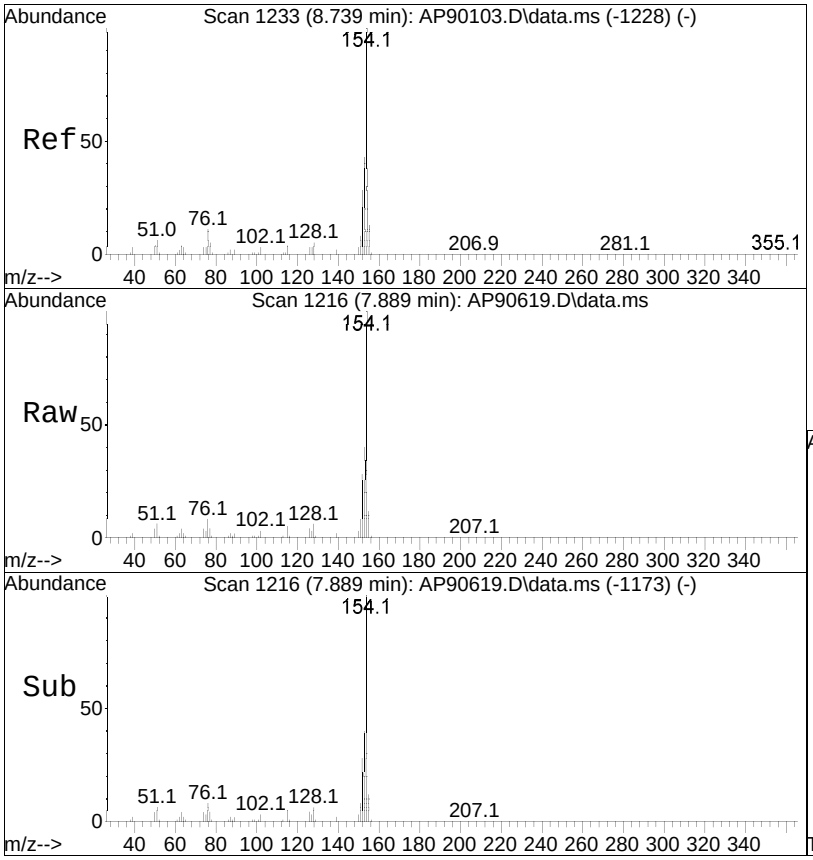


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.36 ug/ml
RT: 7.578 min Scan# 1163
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:216 Resp: 136983

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.7	95.5
179	20.6	19.0	28.6

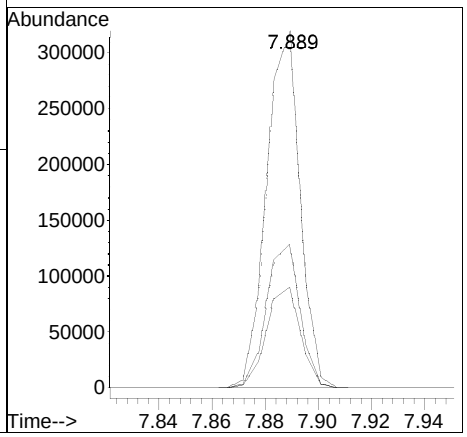


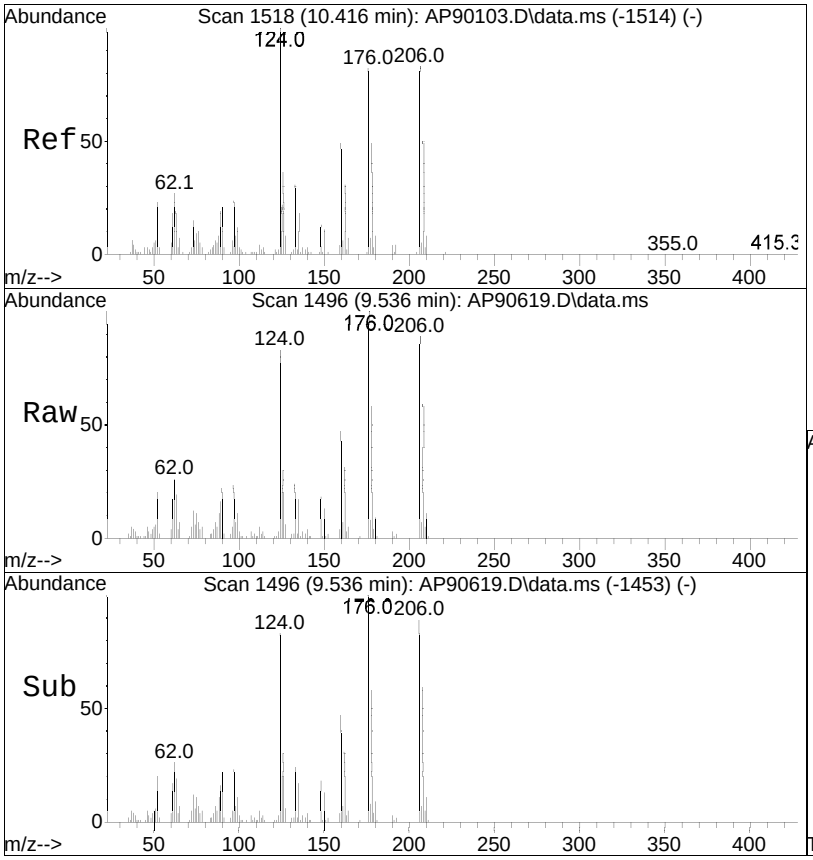


#61
Biphenyl
Concen: 5.57 ug/ml
RT: 7.889 min Scan# 1216
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:154 Resp: 278611

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.0	22.5	33.7

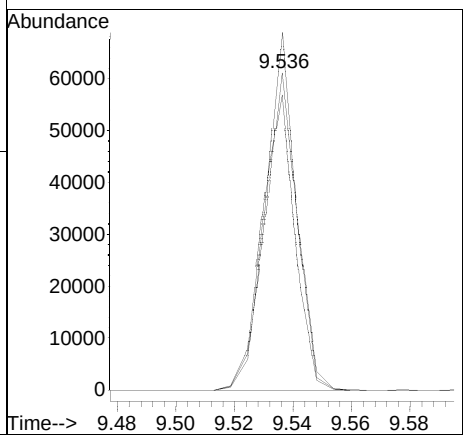


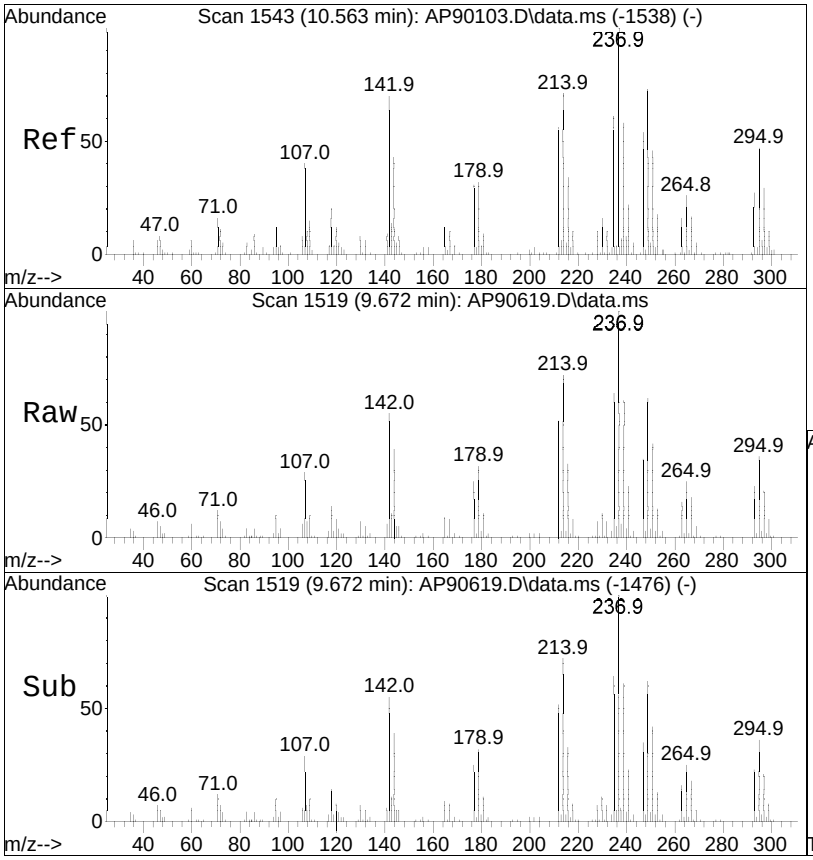


#83
Dichloran
Concen: 6.71 ug/ml
RT: 9.536 min Scan# 1496
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:206 Resp: 47235

Ion	Ratio	Lower	Upper
206	100		
176	105.3	104.6	157.0
124	93.9	130.5	195.7#

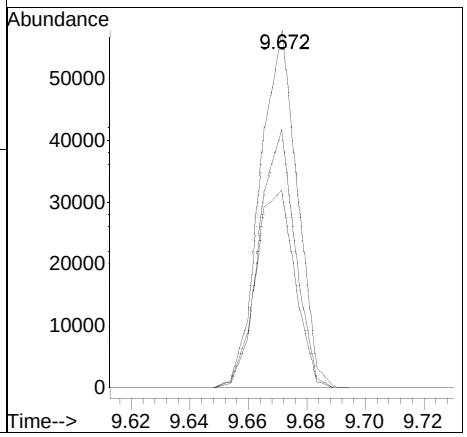


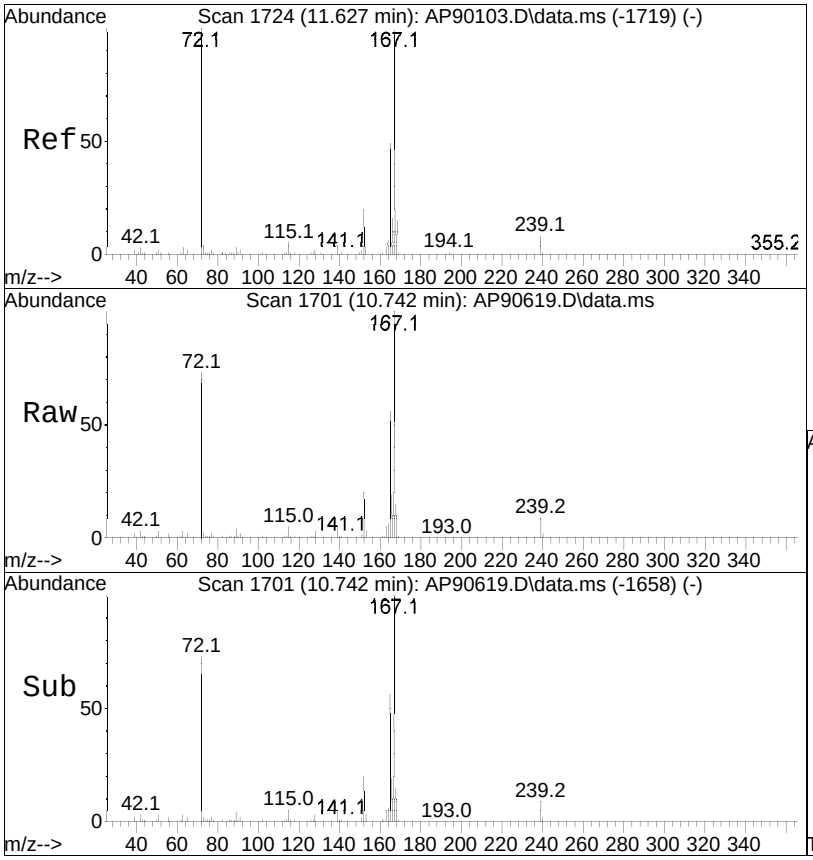


#84
Pentachloronitrobenzene
Concen: 5.97 ug/ml
RT: 9.672 min Scan# 1519
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:237 Resp: 50946

Ion	Ratio	Lower	Upper
237	100		
142	58.7	77.0	115.4#
214	69.4	58.2	87.4

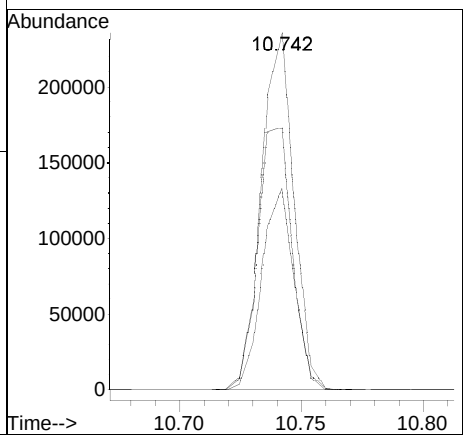




#98
Diphenamid
Concen: 6.08 ug/ml
RT: 10.742 min Scan# 1701
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 8:51 am

Tgt Ion:167 Resp: 217319

Ion	Ratio	Lower	Upper
167	100		
72	77.8	109.7	164.5#
165	56.4	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240619aRVT\	QMethod	: FS240418SV106.m
Data File	: AP90619.D	Operator	: SV106:sz
Date Inj'd	: 6/19/2024 8:51 am	Instrument	: SV 106
Sample	: wg1936417-4,32,,AP9 10770	Quant Date	: 6/19/2024 10:14 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.789	0.654	17.1	83	0.00
3	t	Pyridine		1.181	1.111	5.9	84	0.00
4	S	2-Fluorophenol		1.131	1.074	5.0	94	0.00
5	T	Aniline		1.890	1.624	14.1	85	0.00
6	t	2-Chlorophenol		1.230	1.217	1.1	94	0.00
7	S	Phenol-d6		1.461	1.445	1.1	95	0.00
8	T	Phenol		1.557	1.418	8.9	88	0.00
9	T	Bis(2-chloroethyl)ether		1.229	0.961	21.8#	75	0.00
10	T	1,3-Dichlorobenzene		1.423	1.427	-0.3	99	0.00
11	T	1,4-Dichlorobenzene		1.486	1.457	2.0	101	0.00
12	T	1,2-Dichlorobenzene		1.357	1.361	-0.3	99	0.00
13	t	Benzyl alcohol		1.189	0.955	19.7	76	0.00
14	T	Bis(2-chloroisopropyl)ether		1.817	0.879	51.6#	47#	0.00
15	T	2-Methylphenol		1.108	1.022	7.8	91	0.00
16	T	Hexachloroethane		0.606	0.528	12.9	83	0.00
17	T	n-Nitrosodi-n-propylamine		1.034	0.725	29.9#	66	0.00
18	T	3-Methylphenol/4-Methylphen		1.204	1.165	3.2	94	0.00
19	S	Nitrobenzene-d5		1.564	1.200	23.3#	73	0.00
20	T	Nitrobenzene		1.505	1.175	21.9#	73	0.00
21	T	Isophorone		2.670	1.979	25.9#	70	0.00
22	T	2-Nitrophenol		0.622	0.687	-10.5	108	0.00
23	T	2,4-Dimethylphenol		1.261	1.006	20.2	76	0.00
24	T	Bis(2-chloroethoxy)methane		1.675	1.255	25.1#	74	0.00
25	T	2,4-Dichlorophenol		1.149	1.144	0.4	94	0.00
26	T	1,2,4-Trichlorobenzene		1.404	1.352	3.7	95	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	89	0.00
35	T	Naphthalene		1.066	1.028	3.6	94	0.00
36	T	Benzoic Acid	*	5.000	4.785	4.3	96	0.00
37	T	4-Chloroaniline		0.160	0.117	26.9#	69	0.00
38	T	Hexachlorobutadiene		0.275	0.251	8.7	90	0.00
39	T	p-Chloro-m-cresol		0.327	0.286	12.5	81	0.00
40	T	2-Methylnaphthalene		0.711	0.709	0.3	95	0.00
41	T	1-Methylnaphthalene		0.297	0.254	14.5	84	0.00
42	T	Hexachlorocyclopentadiene		0.273	0.307	-12.5	106	0.00
43	T	2,4,6-Trichlorophenol		0.266	0.286	-7.5	97	0.00
44	T	2,4,5-Trichlorophenol		0.289	0.297	-2.8	93	0.00
45	S	2-Fluorobiphenyl		0.928	0.863	7.0	90	0.00

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.743	0.695	6.5	89	0.00
47	T	2-Nitroaniline		0.215	0.229	-6.5	99	0.00
48	T	1,4-Dinitrobenzene		0.114	0.121	-6.1	95	0.00
49	T	1,3-Dinitrobenzene		0.130	0.133	-2.3	92	0.00
50	T	Dimethyl phthalate		0.982	0.886	9.8	85	0.00
51	T	Acenaphthylene		1.155	1.117	3.3	91	0.00
52	T	2,6-Dinitrotoluene		0.197	0.195	1.0	91	0.00
53	T	1,2-Dinitrobenzene		0.078	0.081	-3.8	94	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
63	T	3-Nitroaniline		0.293	0.325	-10.9	97	0.00
64	T	Acenaphthene		0.991	1.010	-1.9	91	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.319	-26.4#	122	0.00
66	T	Dibenzofuran		1.734	1.636	5.7	88	0.00
67	T	2,4-Dinitrotoluene		0.398	0.415	-4.3	87	0.00
68	T	4-Nitrophenol		0.314	0.269	14.3	70	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.353	0.441	-24.9#	101	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.346	0.407	-17.6	98	0.00
71	T	Diethyl phthalate		1.443	1.357	6.0	81	0.00
72	T	Fluorene		1.363	1.316	3.4	88	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.684	4.6	88	0.00
74	T	4-Nitroaniline		0.287	0.321	-11.8	93	0.00
75	T	4,6-Dinitro-o-cresol		0.224	0.292	-30.4#	110	0.00
76	T	NDPA/DPA		1.122	1.108	1.2	87	0.00
77	T	Azobenzene		1.430	0.985	31.1#	62	0.00
78	S	2,4,6-Tribromophenol		0.213	0.254	-19.2	102	0.00
79	T	4-Bromophenyl phenyl ether		0.427	0.413	3.3	87	0.00
80	T	Hexachlorobenzene		0.494	0.510	-3.2	96	0.00
81	T	Pentachlorophenol		0.288	0.358	-24.3#	106	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	80	0.00
88	T	Phenanthrene		0.988	0.949	3.9	86	0.00
89	T	Anthracene		0.977	0.974	0.3	87	0.00
90	T	Carbazole		0.894	0.926	-3.6	88	0.00
91	T	Di-n-butylphthalate		1.089	1.139	-4.6	87	0.00
92	T	Fluoranthene		1.131	1.143	-1.1	87	0.00
93	T	Benzidine		0.648	0.789	-21.8#	96	0.00
94	T	Pyrene		1.194	1.242	-4.0	91	0.00
95	S	4-Terphenyl-d14		0.861	0.863	-0.2	88	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.463	0.532	-14.9	96	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene	1.294	1.327	-2.6	95	0.00
105	T	3,3'-Dichlorobenzidine	0.446	0.513	-15.0	103	0.00
106	T	Chrysene	1.277	1.231	3.6	92	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.767	0.874	-14.0	102	0.00
108	T	Di-n-octylphthalate	1.257	1.571	-25.0#	111	0.00
109	T	Benzo(b)fluoranthene	1.181	1.383	-17.1	102	0.00
110	T	Benzo(k)fluoranthene	1.154	1.236	-7.1	103	0.00
111	T	Benzo(a)pyrene	1.058	1.292	-22.1#	112	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	99	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.983	1.120	-13.9	124	0.00
114	T	Dibenzo(a,h)anthracene	0.935	1.098	-17.4	124	0.00
115	T	Benzo(ghi)perylene	0.923	1.056	-14.4	123	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.854	152	59427	4.000	ug/ml	-0.03
34) IS1_Naphthalene-d8	6.613	136	210492	4.000	ug/ml	-0.02
62) IS1_Acenaphthene-d10	8.407	164	134114	4.000	ug/ml	-0.02
87) IS1_Phenanthrene-d10	9.801	188	283169	4.000	ug/ml	#-0.02
103) IS1_Chrysene-d12	12.289	240	267660	4.000	ug/ml	-0.02
112) IS1_Perylene-d12	13.612	264	323400	4.000	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	1.978	112	79753	4.747	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 237.35%#			
7) Phenol-d6	4.401	99	107314	4.945	ug/ml	-0.04
Spiked Amount 2.000	Range 15 - 110		Recovery = 247.25%#			
19) Nitrobenzene-d5	5.766	82	89141	3.836	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 383.60%#			
45) 2-Fluorobiphenyl	7.807	172	227181	4.655	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 465.50%#			
78) 2,4,6-Tribromophenol	9.166	330	42539	5.962	ug/ml	-0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 298.10%#			
95) 4-Terphenyl-d14	11.371	244	305603	5.011	ug/ml	-0.02
Spiked Amount 1.000	Range 30 - 130		Recovery = 501.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	0.843	74	48587	4.146	ug/ml#	80
3) Pyridine	0.854	79	82532	4.705	ug/ml#	48
5) Aniline	4.131	93	120614	4.296	ug/ml#	88
6) 2-Chlorophenol	4.419	128	90378	4.948	ug/ml#	89
8) Phenol	4.425	94	105318	4.554	ug/ml#	85
9) Bis(2-chloroethyl)ether	4.472	93	71362	3.908	ug/ml#	80
10) 1,3-Dichlorobenzene	4.725	146	105971	5.013	ug/ml	94
11) 1,4-Dichlorobenzene	4.889	146	108229	4.901	ug/ml	96
12) 1,2-Dichlorobenzene	5.142	146	101094	5.015	ug/ml	95
13) Benzyl alcohol	5.242	79	70913	4.015	ug/ml	98
14) Bis(2-chloroisopropyl)...	5.489	45	65297	2.419	ug/ml#	53
15) 2-Methylphenol	5.525	108	75892	4.612	ug/ml	100
16) Hexachloroethane	5.642	117	39209	4.355	ug/ml#	43
17) n-Nitrosodi-n-propylamine	5.672	70	53866	3.505	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.766	108	86505	4.836	ug/ml	96
20) Nitrobenzene	5.789	77	87257M6	3.903	ug/ml	
21) Isophorone	6.136	82	147006	3.706	ug/ml#	97
22) 2-Nitrophenol	6.213	139	51046	5.521	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	6.401	107	74706	3.988	ug/ml	99
24) Bis(2-chloroethoxy)met...	6.489	93	93213	3.745	ug/ml#	96
25) 2,4-Dichlorophenol	6.519	162	84995	4.978	ug/ml#	91
26) 1,2,4-Trichlorobenzene	6.583	180	100443	4.817	ug/ml	97
35) Naphthalene	6.636	128	270501	4.820	ug/ml	100
36) Benzoic Acid	6.560	105	66107	4.785	ug/ml	91
37) 4-Chloroaniline	6.772	65	30716	3.650	ug/ml#	68
38) Hexachlorobutadiene	6.848	225	66145	4.571	ug/ml	97
39) p-Chloro-m-cresol	7.366	107	75318	4.379	ug/ml	92
40) 2-Methylnaphthalene	7.395	142	186502	4.988	ug/ml	92
41) 1-Methylnaphthalene	7.489	115	66907	4.280	ug/ml	88
42) Hexachlorocyclopentadiene	7.583	237	80666	5.615	ug/ml	100
43) 2,4,6-Trichlorophenol	7.719	196	75263M3	5.385	ug/ml	
44) 2,4,5-Trichlorophenol	7.748	196	78154	5.134	ug/ml	96
46) 2-Chloronaphthalene	7.872	162	182748	4.674	ug/ml	95
47) 2-Nitroaniline	8.013	138	60300	5.326	ug/ml#	79
48) 1,4-Dinitrobenzene	8.154	168	31903	5.320	ug/ml#	70
49) 1,3-Dinitrobenzene	8.230	168	34922	5.093	ug/ml#	1
50) Dimethyl phthalate	8.248	163	233145	4.512	ug/ml#	98
51) Acenaphthylene	8.260	152	293806	4.832	ug/ml	99
52) 2,6-Dinitrotoluene	8.272	165	51253	4.939	ug/ml	90
53) 1,2-Dinitrobenzene	8.301	168	21375	5.238	ug/ml	99
63) 3-Nitroaniline	8.413	138	54532	5.554	ug/ml	87
64) Acenaphthene	8.436	154	169342	5.099	ug/ml	91
65) 2,4-Dinitrophenol	8.519	184	39564	6.319	ug/ml#	80
66) Dibenzofuran	8.607	168	274264	4.717	ug/ml	96
67) 2,4-Dinitrotoluene	8.648	165	69647	5.214	ug/ml#	86
68) 4-Nitrophenol	8.654	65	45058	4.278	ug/ml#	81
69) 2,3,5,6-Tetrachlorophenol	8.719	232	73870	6.249	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	8.760	232	68172	5.873	ug/ml	97
71) Diethyl phthalate	8.936	149	227463	4.701	ug/ml	99
72) Fluorene	8.930	166	220605	4.829	ug/ml	95
73) 4-Chlorophenyl phenyl ...	8.983	204	114649	4.770	ug/ml#	88
74) 4-Nitroaniline	8.989	138	53737	5.588	ug/ml#	66
75) 4,6-Dinitro-o-cresol	9.030	198	48962	6.507	ug/ml#	57
76) NDPA/DPA	9.101	169	185782	4.938	ug/ml	97
77) Azobenzene	9.124	77	165126M6	3.445	ug/ml	
79) 4-Bromophenyl phenyl e...	9.436	248	69202	4.833	ug/ml#	87
80) Hexachlorobenzene	9.454	284	85550	5.160	ug/ml#	79
81) Pentachlorophenol	9.660	266	60033	6.215	ug/ml	97
88) Phenanthrene	9.824	178	335810	4.803	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	9.866	178	344583	4.982	ug/ml	98
90) Carbazole	10.054	167	327673	5.179	ug/ml	100
91) Di-n-butylphthalate	10.501	149	403139	5.227	ug/ml	99
92) Fluoranthene	10.936	202	404436	5.053	ug/ml#	88
93) Benzidine	11.130	184	279192	6.084	ug/ml#	93
94) Pyrene	11.136	202	439552	5.201	ug/ml	99
96) Butyl benzyl phthalate	11.895	149	188430	5.745	ug/ml#	83
104) Benzo(a)anthracene	12.283	228	444035M3	5.128	ug/ml	
105) 3,3'-Dichlorobenzidine	12.318	252	171536	5.752	ug/ml#	96
106) Chrysene	12.313	228	411788	4.819	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.507	149	292505	5.698	ug/ml#	91
108) Di-n-octylphthalate	13.124	149	525525	6.249	ug/ml#	68
109) Benzo(b)fluoranthene	13.277	252	462827M3	5.855	ug/ml	
110) Benzo(k)fluoranthene	13.301	252	413635	5.357	ug/ml#	93
111) Benzo(a)pyrene	13.559	252	432411	6.107	ug/ml#	91
113) Indeno(1,2,3-cd)pyrene	14.506	276	452832M3	5.698	ug/mL	
114) Dibenzo(a,h)anthracene	14.548	278	443887	5.875	ug/ml#	89
115) Benzo(ghi)perylene	14.706	276	426787	5.721	ug/ml#	83

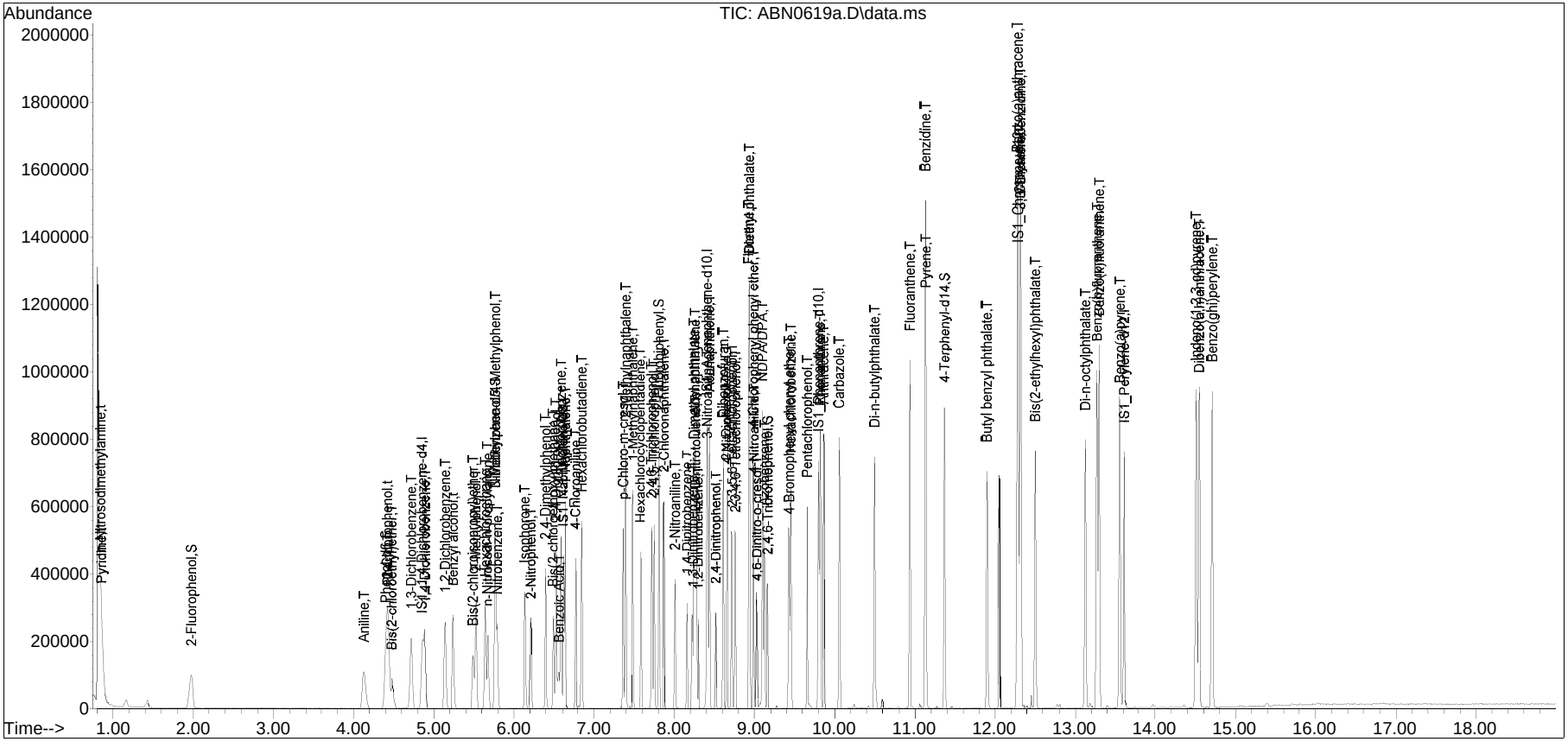
(#) = qualifier out of range (m) = manual integration (+) = signals summed

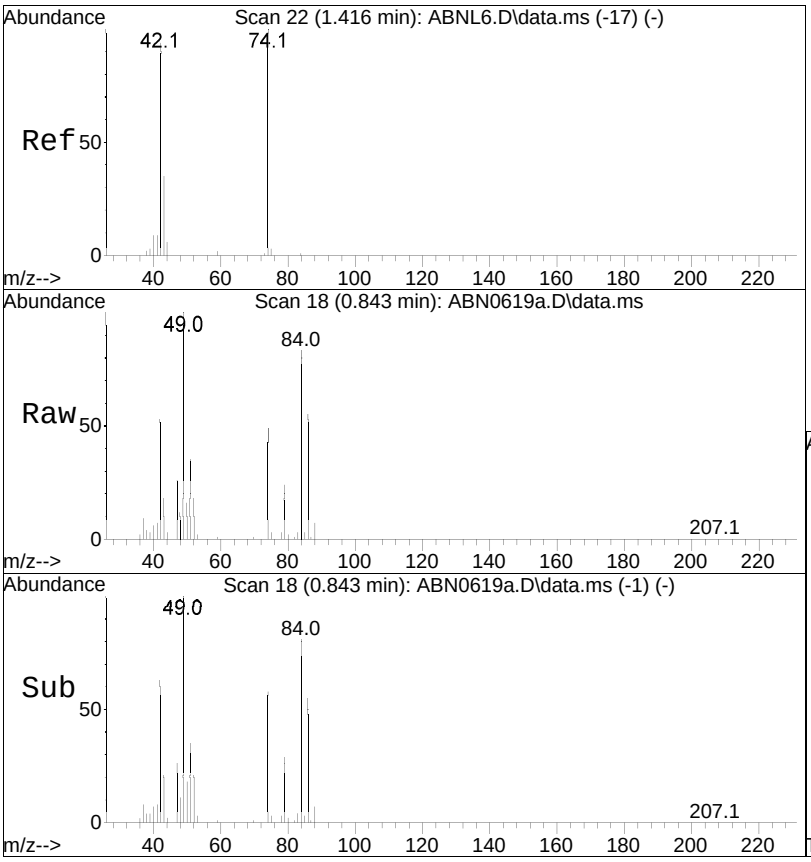
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ABN0619a.D
Acq On : 19 Jun 2024 9:15 am
Operator : SV106:sz
Sample : wg1936417-3,32,,ABN ICV 10805
Misc : wg1936417,,ical21056
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 09:40:08 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 21:21:54 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

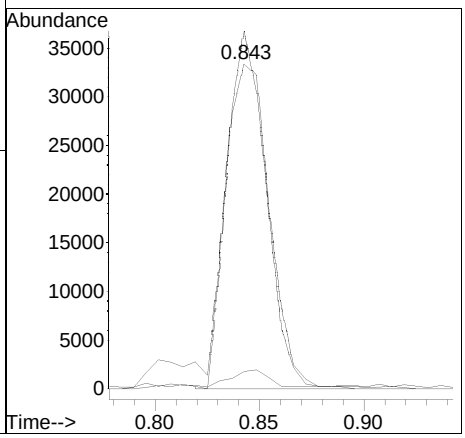


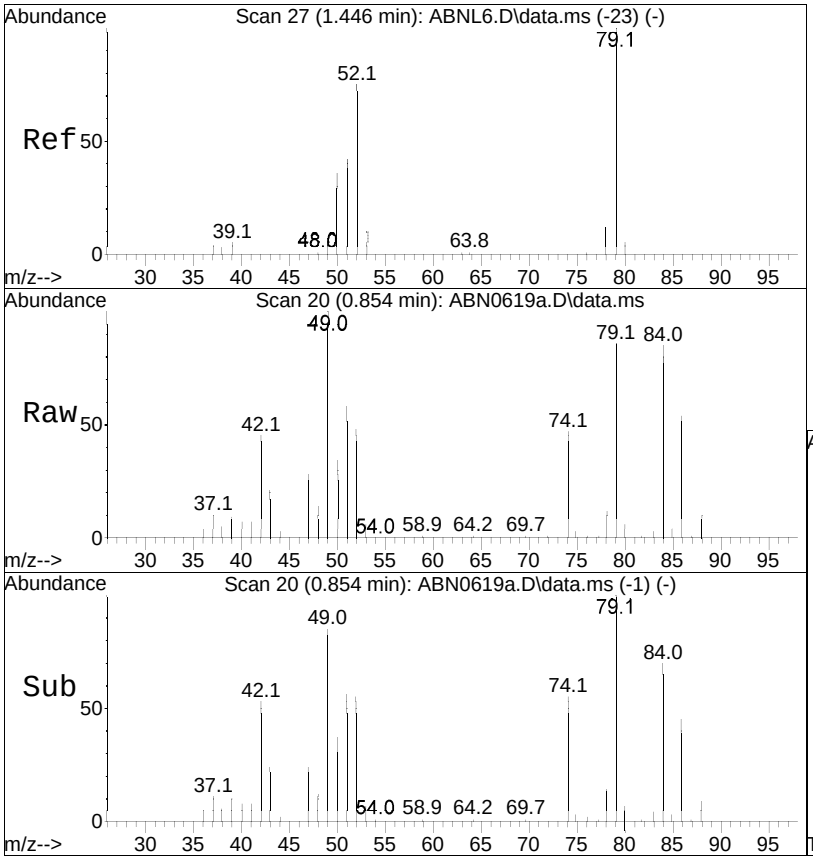


#2
n-Nitrosodimethylamine
Concen: 4.15 ug/ml
RT: 0.843 min Scan# 18
Delta R.T. 0.006 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 74 Resp: 48587

Ion	Ratio	Lower	Upper
74	100		
42	102.2	100.0	150.0
44	4.4	6.7	10.1#

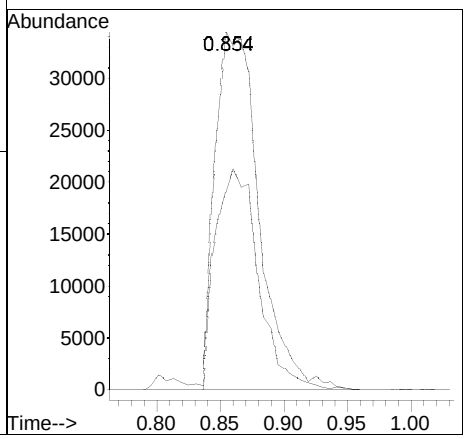


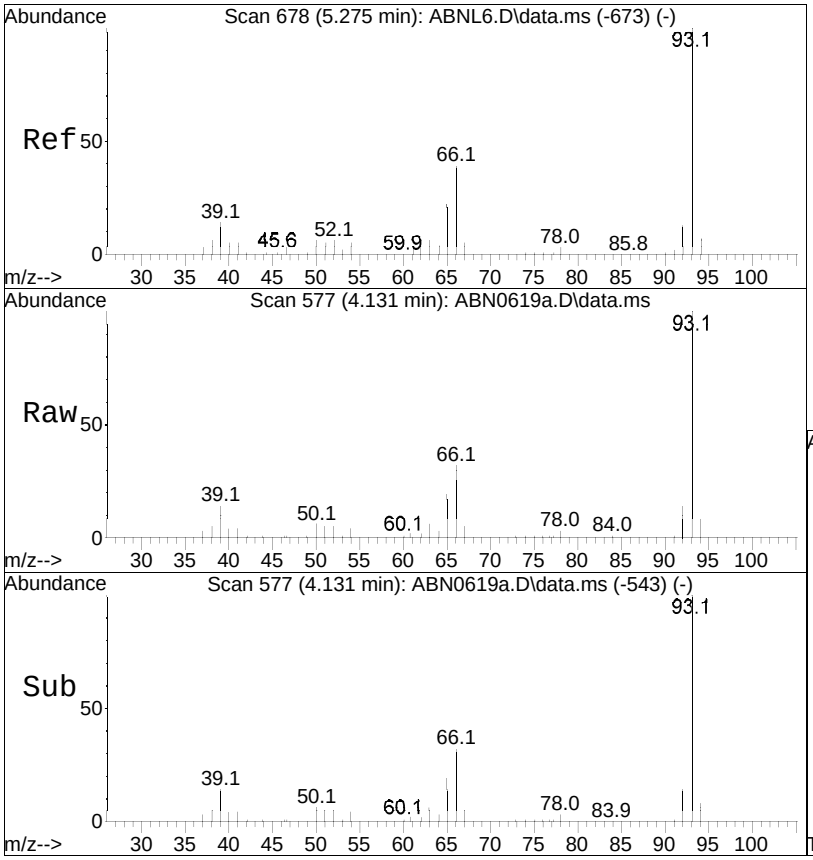


#3
Pyridine
Concen: 4.70 ug/ml
RT: 0.854 min Scan# 20
Delta R.T. 0.006 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 79 Resp: 82532

Ion	Ratio	Lower	Upper
79	100		
52	60.0	93.1	139.7#

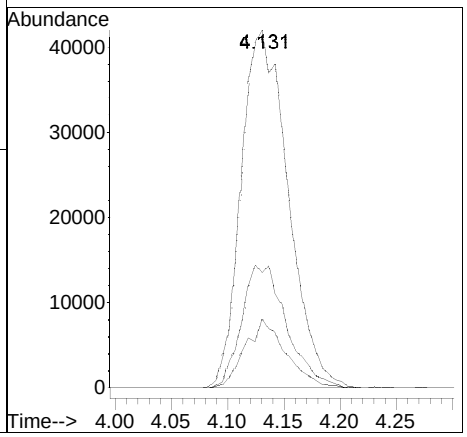


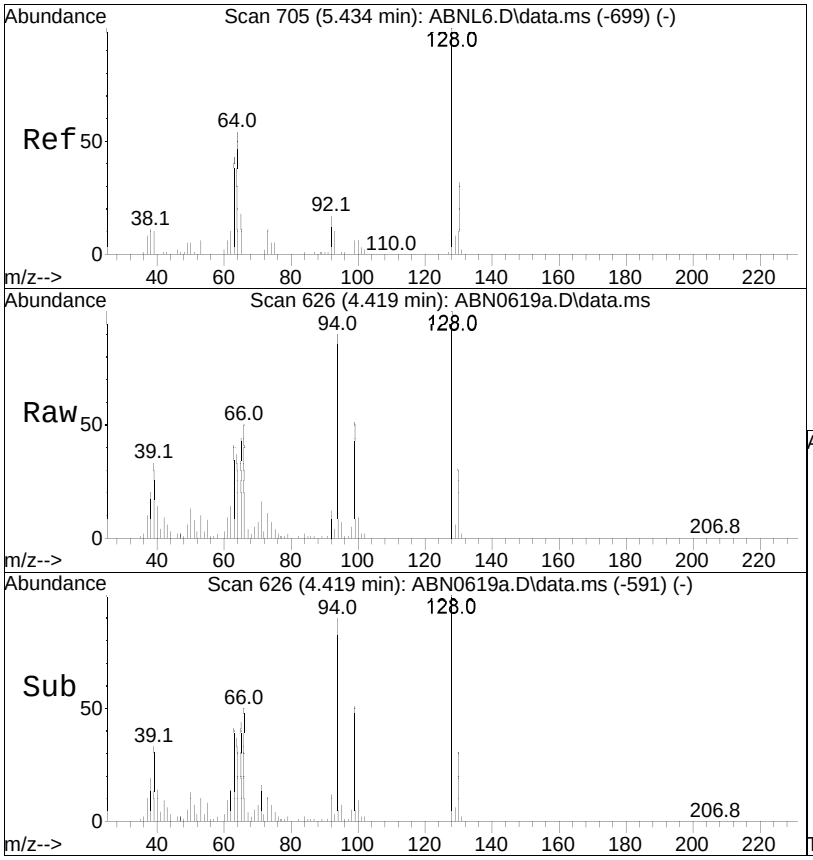


#5
Aniline
Concen: 4.30 ug/ml
RT: 4.131 min Scan# 577
Delta R.T. -0.047 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 93 Resp: 120614

Ion	Ratio	Lower	Upper
93	100		
66	33.0	32.6	49.0
65	17.0	17.6	26.4#

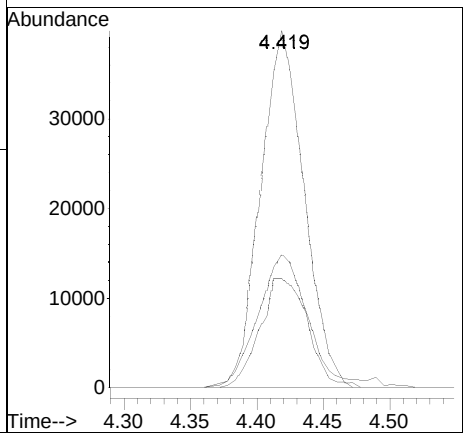


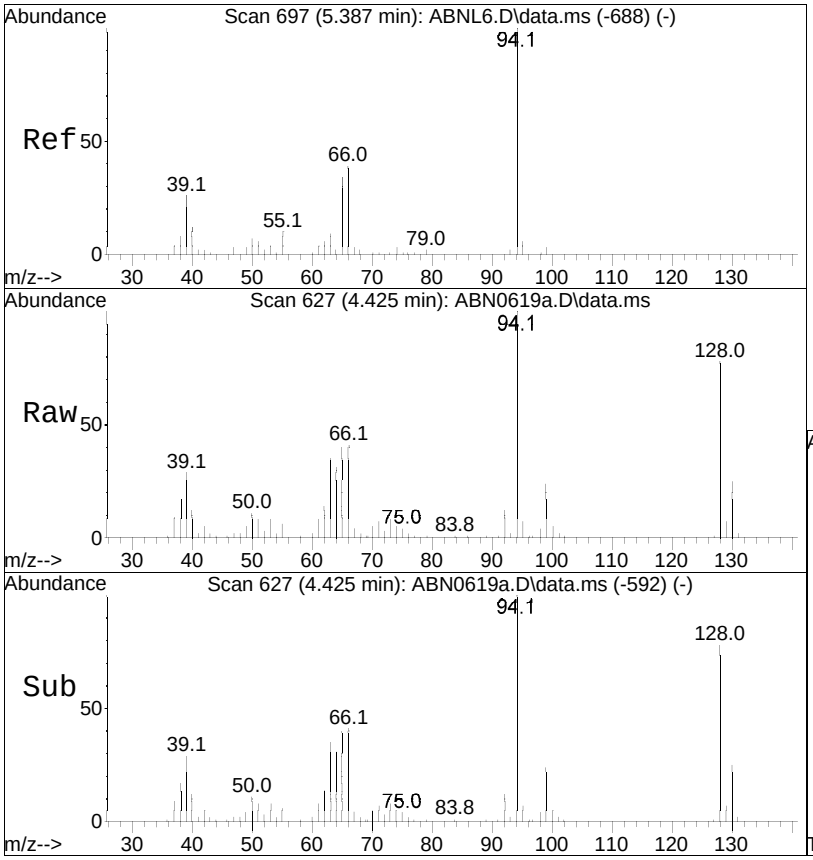


#6
2-Chlorophenol
Concen: 4.95 ug/ml
RT: 4.419 min Scan# 626
Delta R.T. -0.041 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:128 Resp: 90378

Ion	Ratio	Lower	Upper
128	100		
64	43.7	45.1	67.7#
130	33.4	26.2	39.4

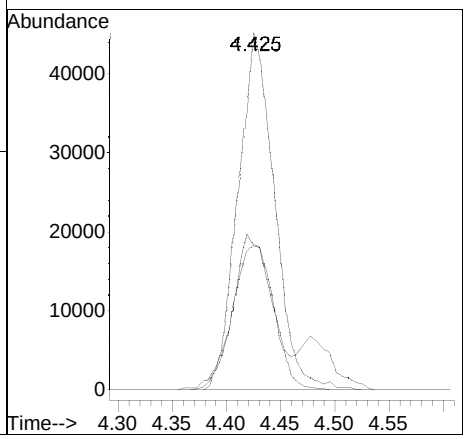


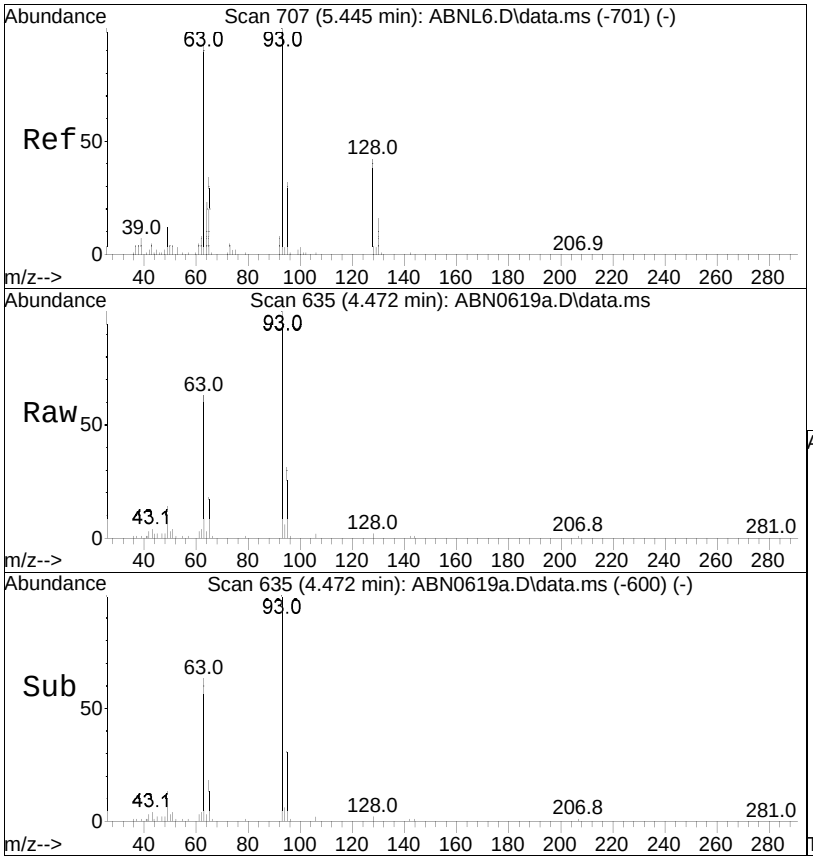


#8
Phenol
Concen: 4.55 ug/ml
RT: 4.425 min Scan# 627
Delta R.T. -0.041 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 94 Resp: 105318

Ion	Ratio	Lower	Upper
94	100		
65	45.7	26.0	39.0#
66	47.8	33.8	50.8

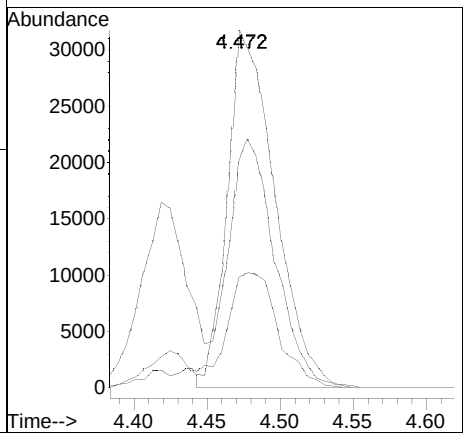


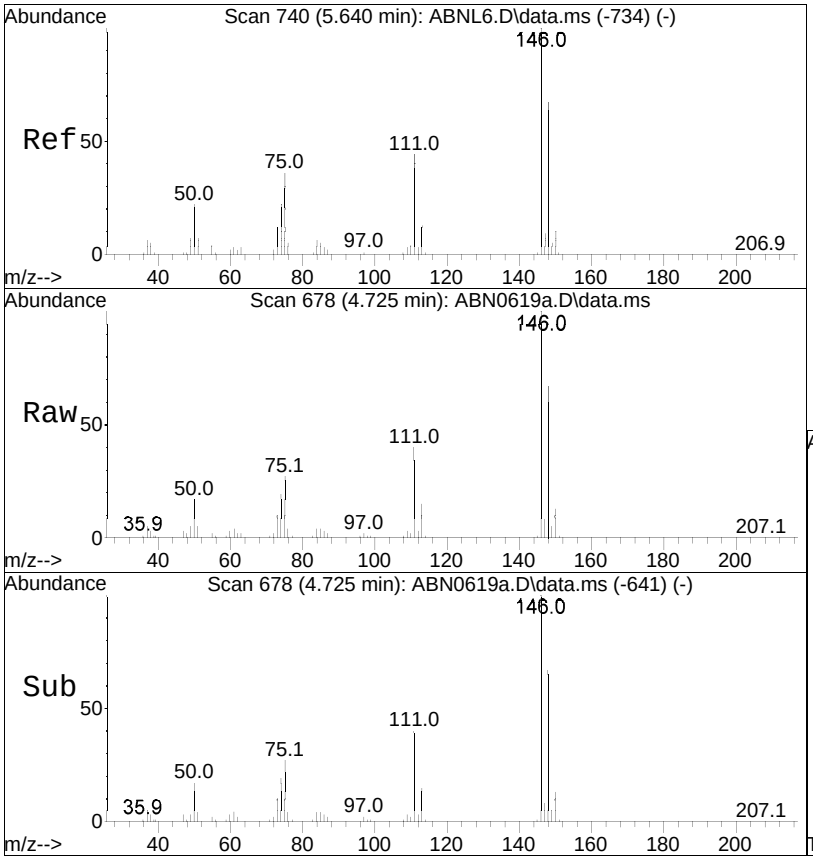


#9
Bis(2-chloroethyl)ether
Concen: 3.91 ug/ml
RT: 4.472 min Scan# 635
Delta R.T. -0.041 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 93 Resp: 71362

Ion	Ratio	Lower	Upper
93	100		
63	68.9	74.6	111.8#
95	34.8	25.9	38.9

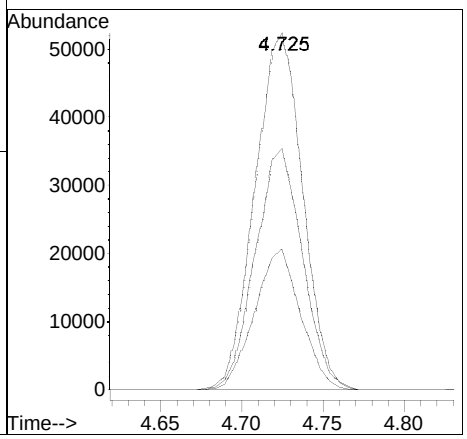


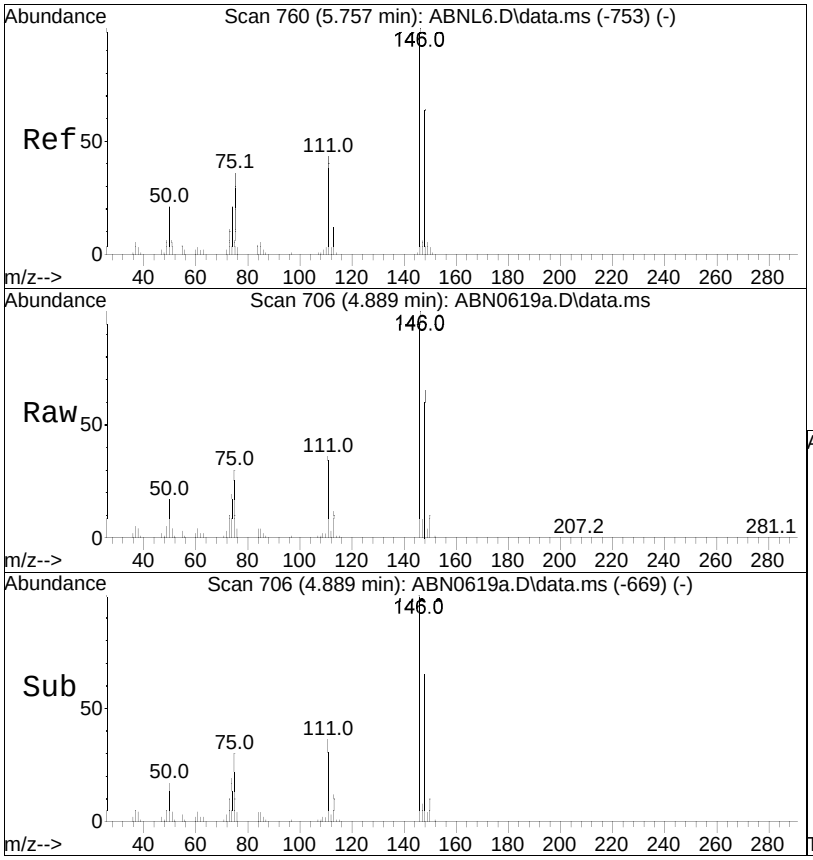


#10
1,3-Dichlorobenzene
Concen: 5.01 ug/ml
RT: 4.725 min Scan# 678
Delta R.T. -0.030 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:146 Resp: 105971

Ion	Ratio	Lower	Upper
146	100		
111	38.3	34.3	51.5
148	67.1	50.8	76.2

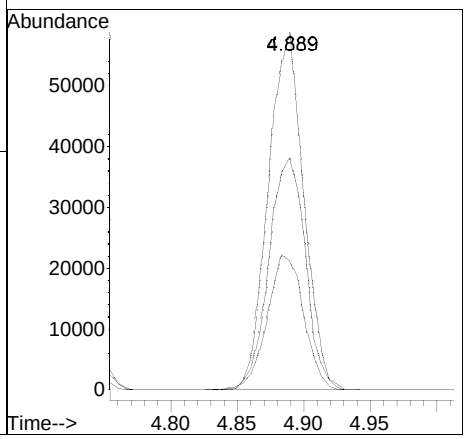


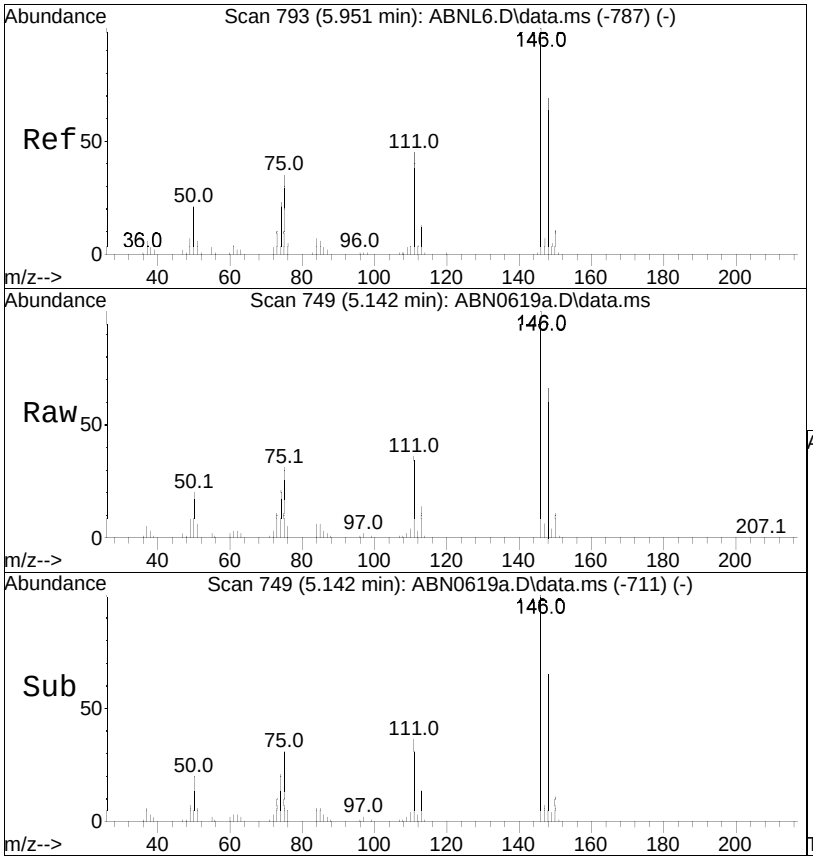


#11
1,4-Dichlorobenzene
Concen: 4.90 ug/ml
RT: 4.889 min Scan# 706
Delta R.T. -0.030 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:146 Resp: 108229

Ion	Ratio	Lower	Upper
146	100		
148	66.9	50.7	76.1
111	39.2	33.4	50.0

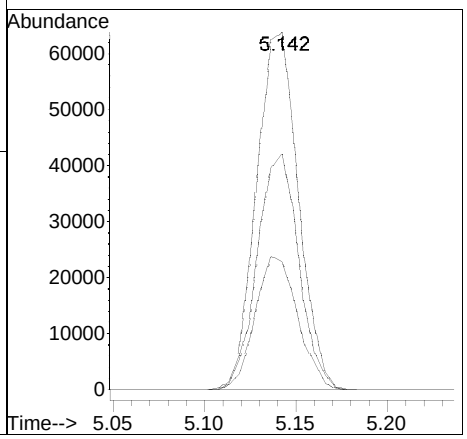


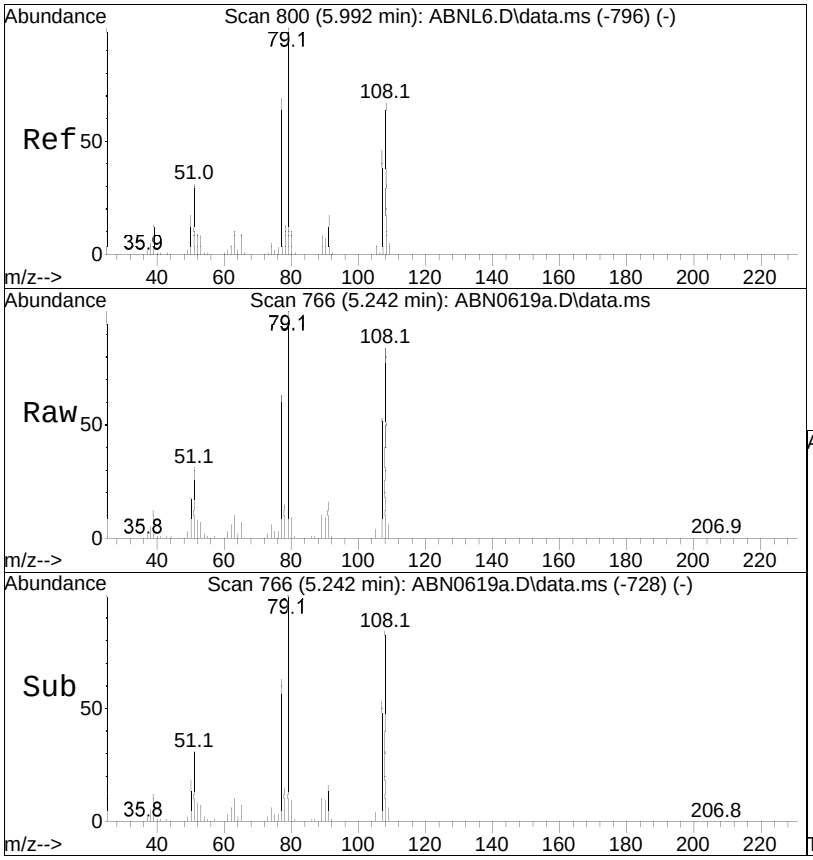


#12
1,2-Dichlorobenzene
Concen: 5.02 ug/ml
RT: 5.142 min Scan# 749
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:146 Resp: 101094

Ion	Ratio	Lower	Upper
146	100		
111	38.0	34.6	52.0
148	65.4	50.2	75.4

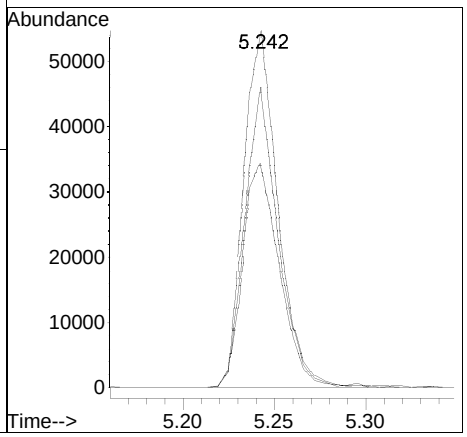


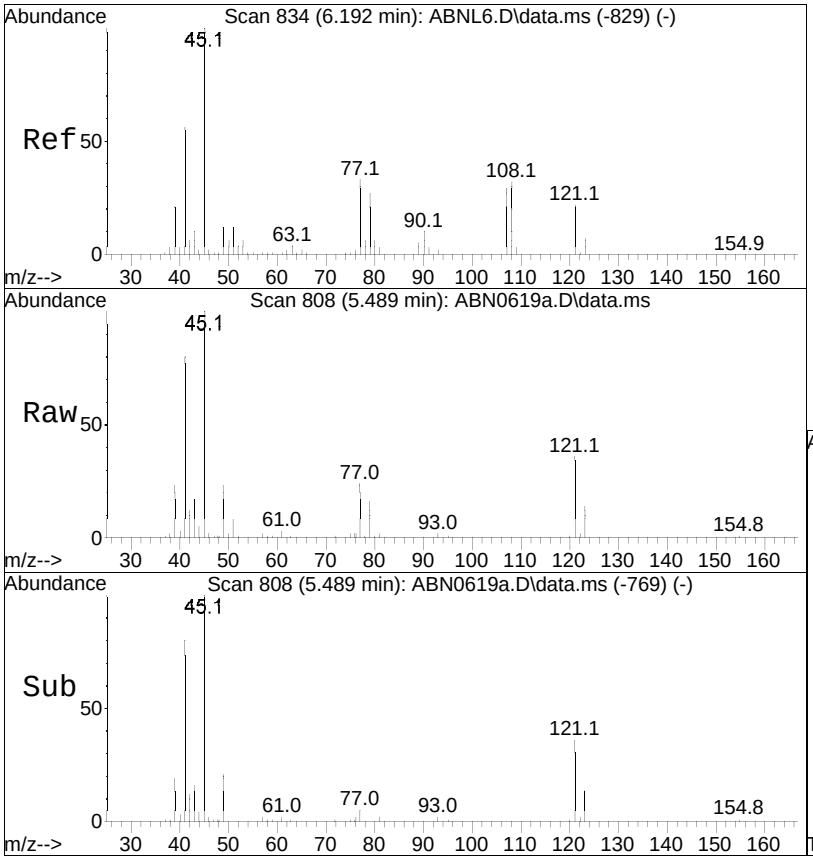


#13
Benzyl alcohol
Concen: 4.01 ug/ml
RT: 5.242 min Scan# 766
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 79 Resp: 70913

Ion	Ratio	Lower	Upper
79	100		
77	67.8	54.9	82.3
108	81.4	63.1	94.7

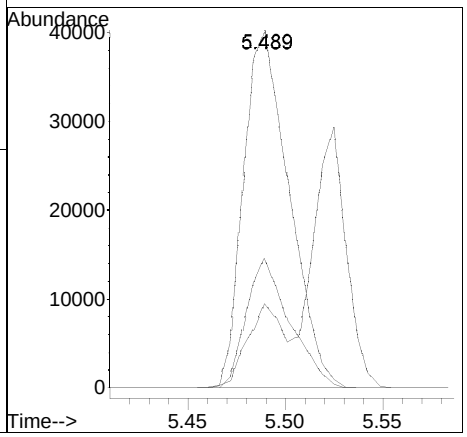


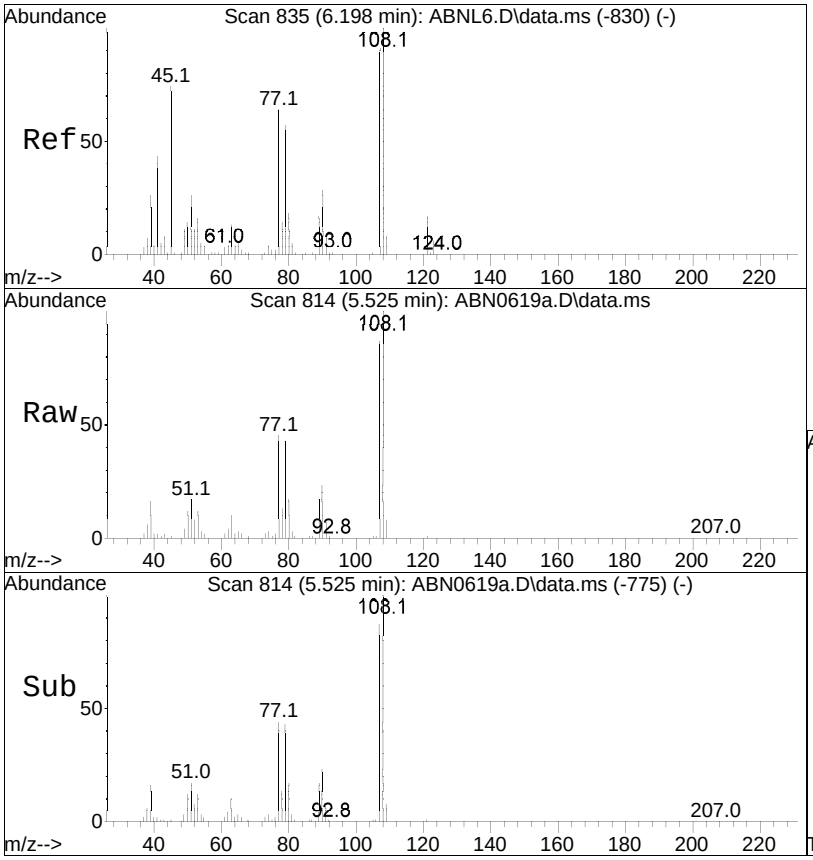


#14
Bis(2-chloroisopropyl)ether
Concen: 2.42 ug/ml
RT: 5.489 min Scan# 808
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 45 Resp: 65297

Ion	Ratio	Lower	Upper
45	100		
121	34.6	9.8	14.6#
77	18.6	6.1	9.1#

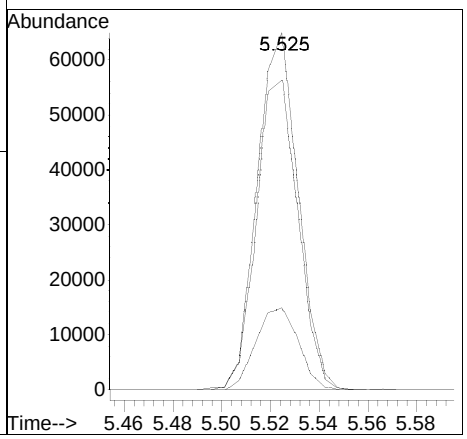


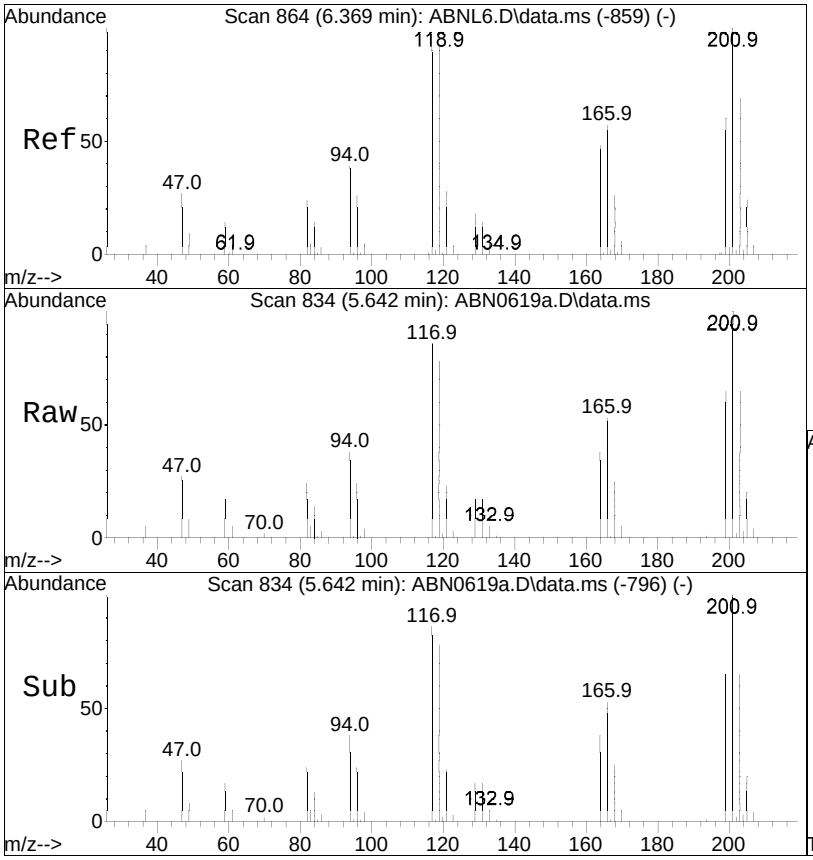


#15
2-Methylphenol
Concen: 4.61 ug/ml
RT: 5.525 min Scan# 814
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:108 Resp: 75892

Ion	Ratio	Lower	Upper
108	100		
107	88.2	70.7	106.1
90	23.9	18.7	28.1

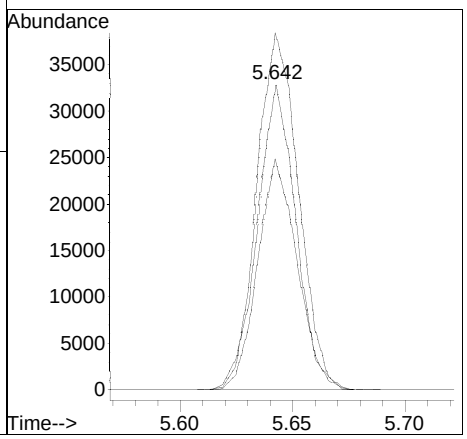


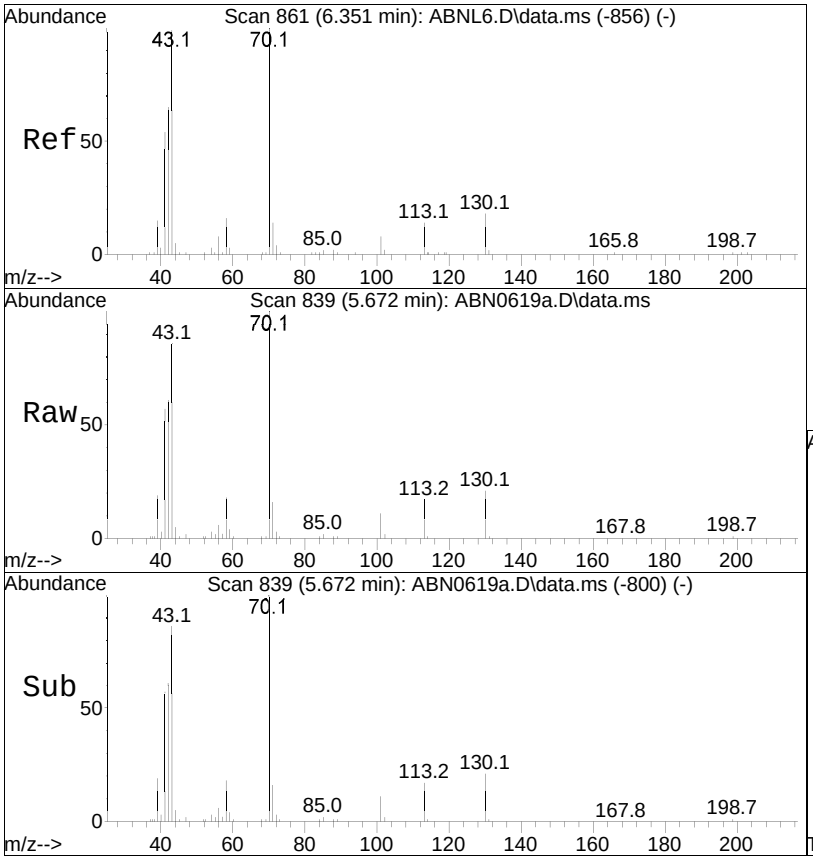


#16
Hexachloroethane
Concen: 4.36 ug/ml
RT: 5.642 min Scan# 834
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:117 Resp: 39209

Ion	Ratio	Lower	Upper
117	100		
201	126.2	58.6	87.8#
199	77.6	36.9	55.3#

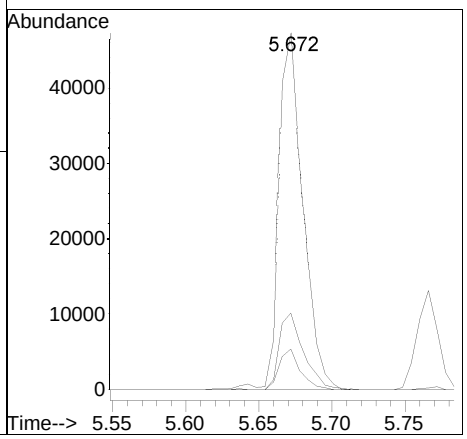


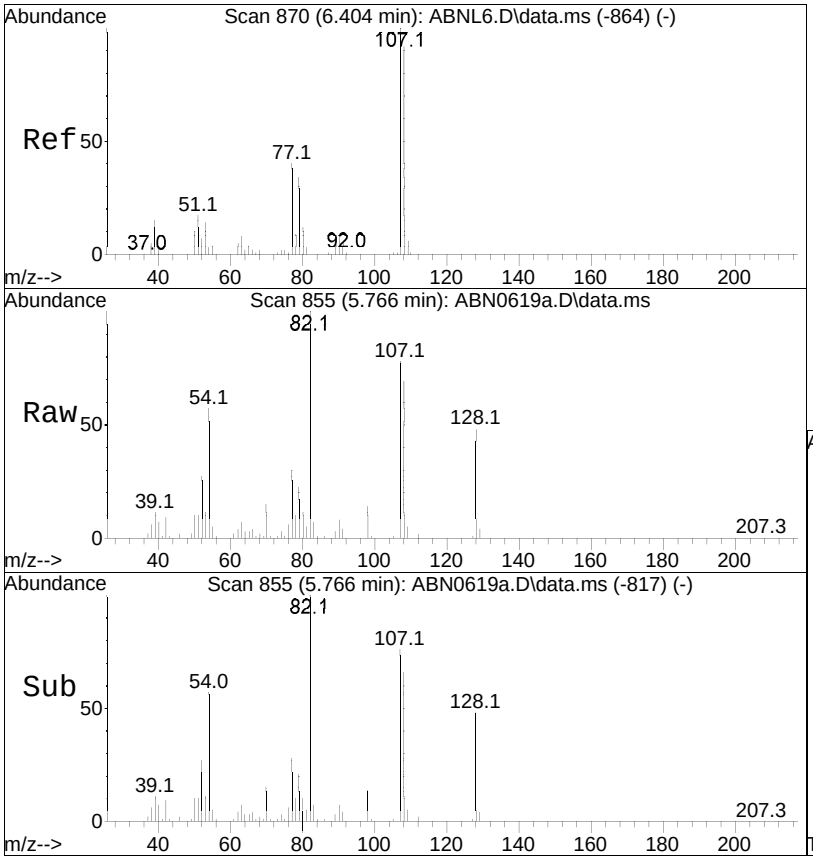


#17
n-Nitrosodi-n-propylamine
Concen: 3.51 ug/ml
RT: 5.672 min Scan# 839
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 70 Resp: 53866

Ion	Ratio	Lower	Upper
70	100		
130	21.7	18.2	27.4
101	10.1	7.8	11.8

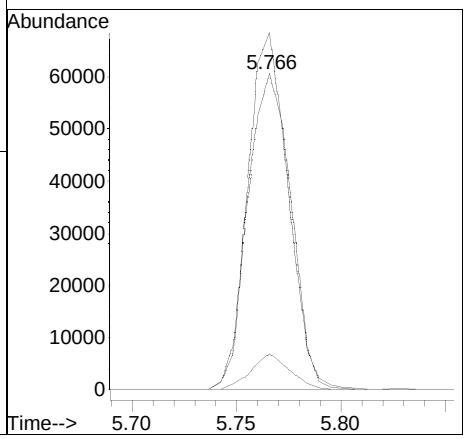


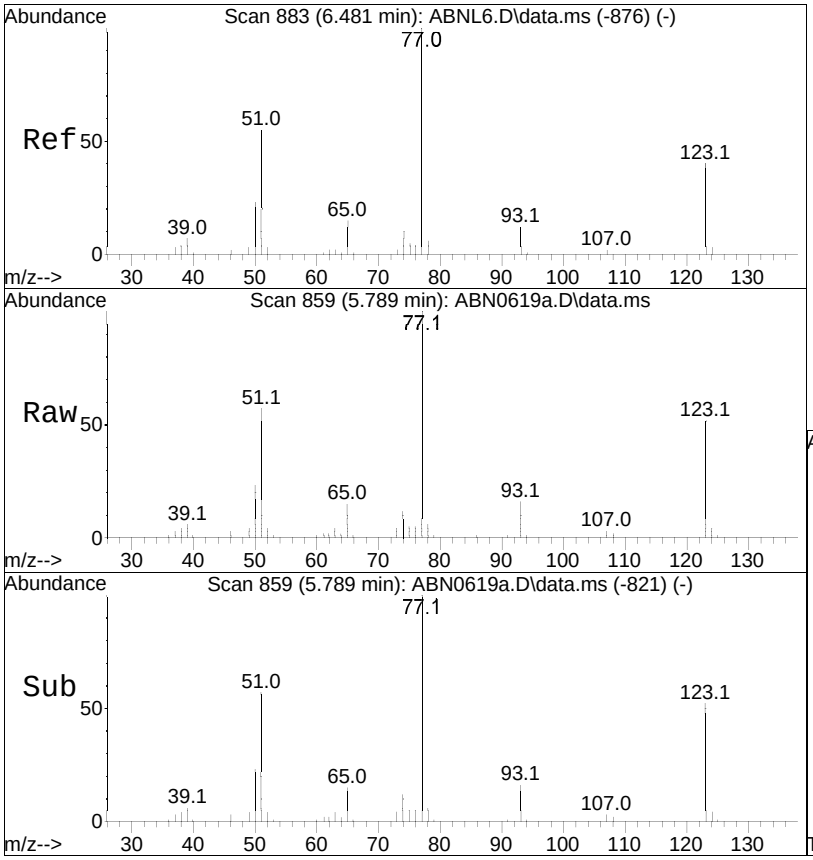


#18
3-Methylphenol/4-Methylphenol
Concen: 4.84 ug/ml
RT: 5.766 min Scan# 855
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:108 Resp: 86505

Ion	Ratio	Lower	Upper
108	100		
107	106.4	88.6	132.8
90	10.2	8.8	13.2

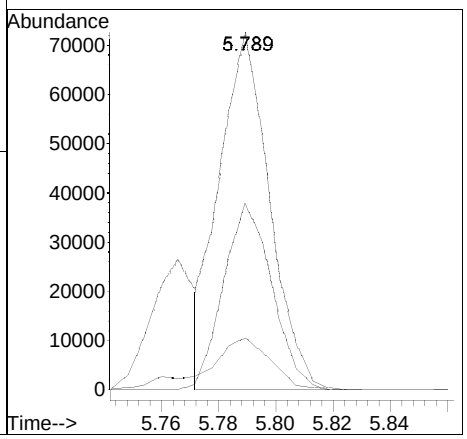


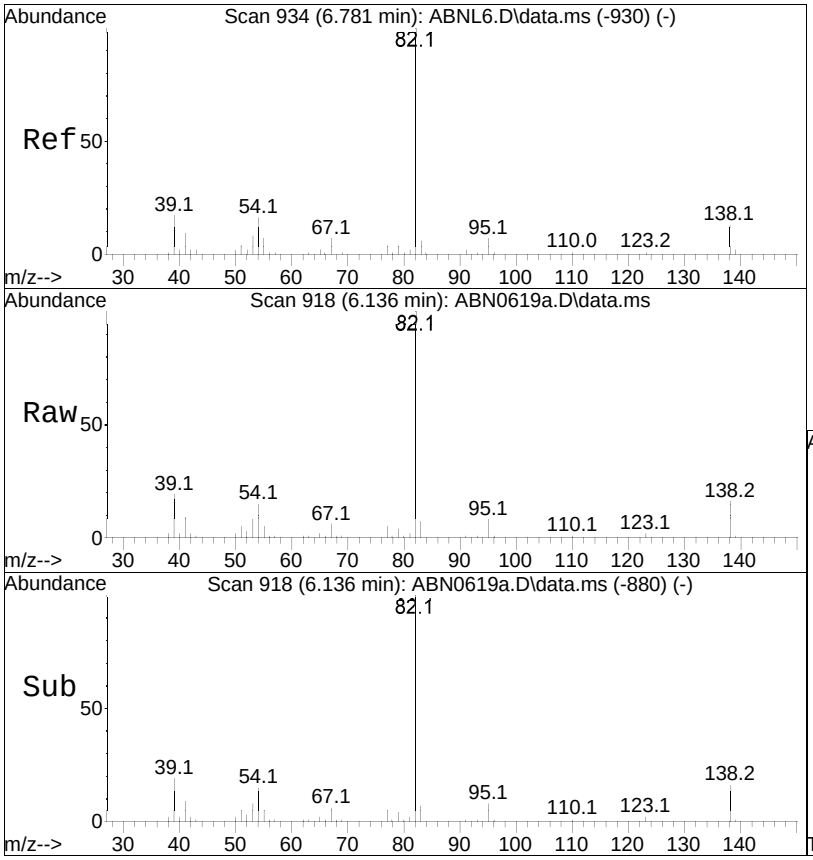


#20
Nitrobenzene
Concen: 3.90 ug/ml M6
RT: 5.789 min Scan# 859
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 77 Resp: 87257

Ion	Ratio	Lower	Upper
77	100		
123	51.3	36.3	54.5
65	19.0	11.6	17.4#

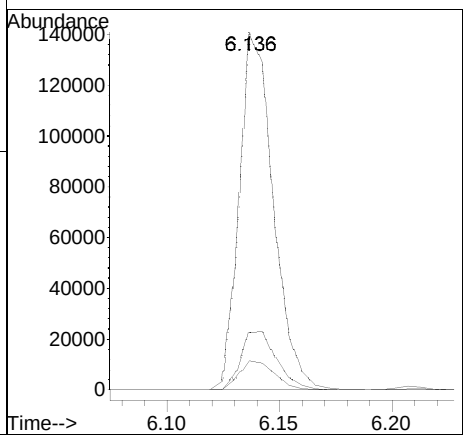


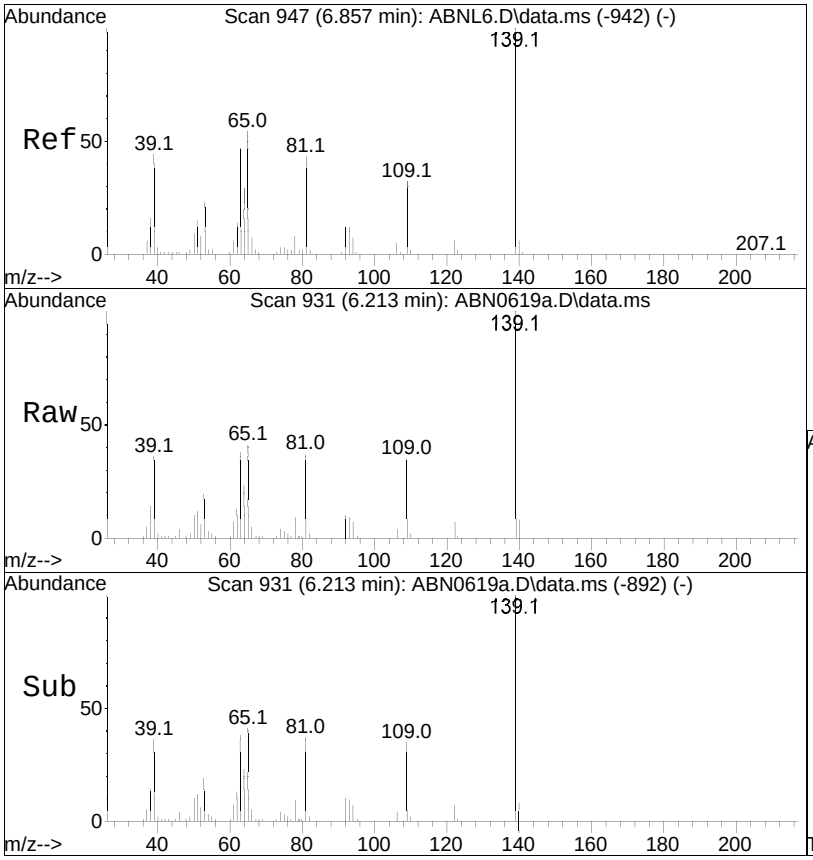


#21
Isophorone
Concen: 3.71 ug/ml
RT: 6.136 min Scan# 918
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 82 Resp: 147006

Ion	Ratio	Lower	Upper
82	100		
138	17.4	14.7	22.1
95	8.6	5.2	7.8#

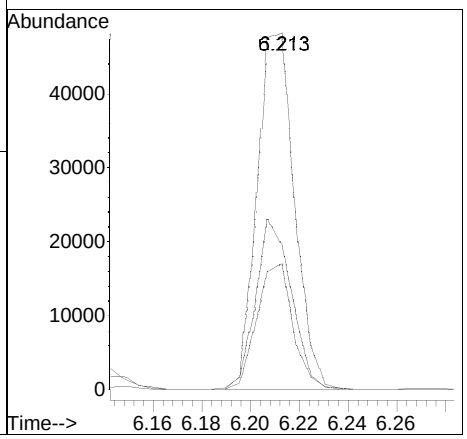


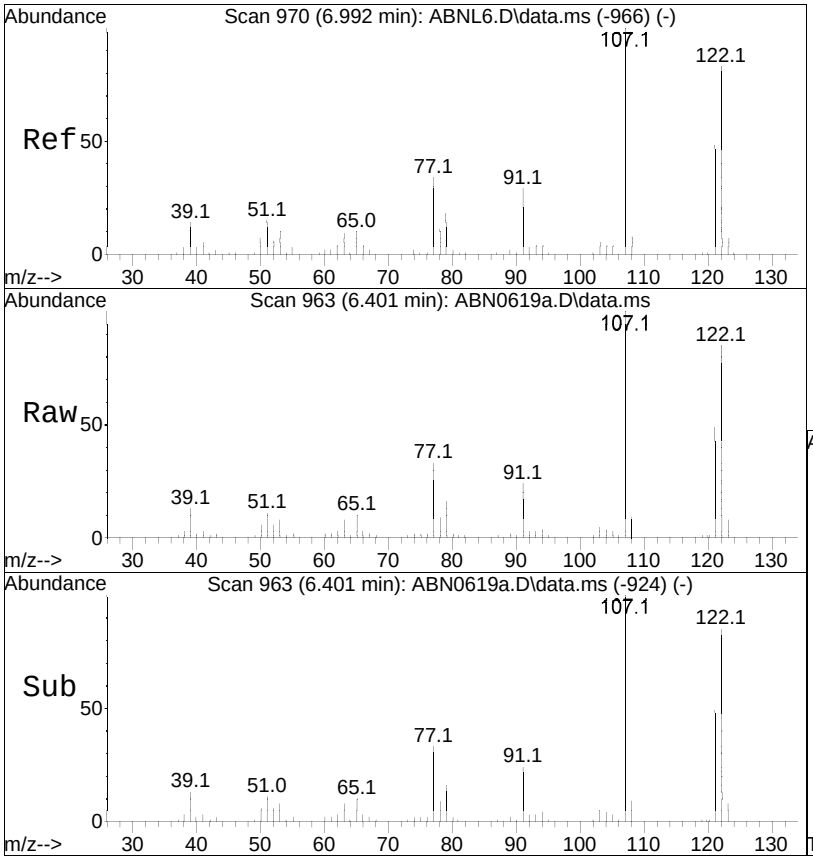


#22
2-Nitrophenol
Concen: 5.52 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:139 Resp: 51046

Ion	Ratio	Lower	Upper
139	100		
109	34.1	19.4	29.0#
65	45.7	46.1	69.1#

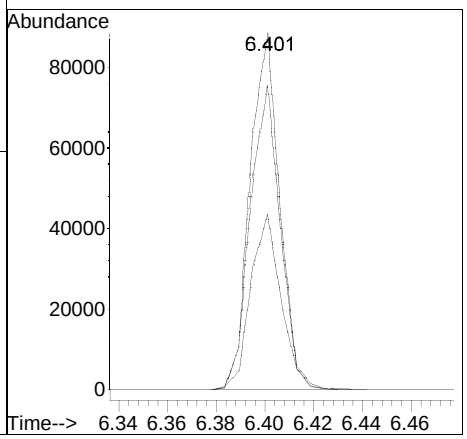


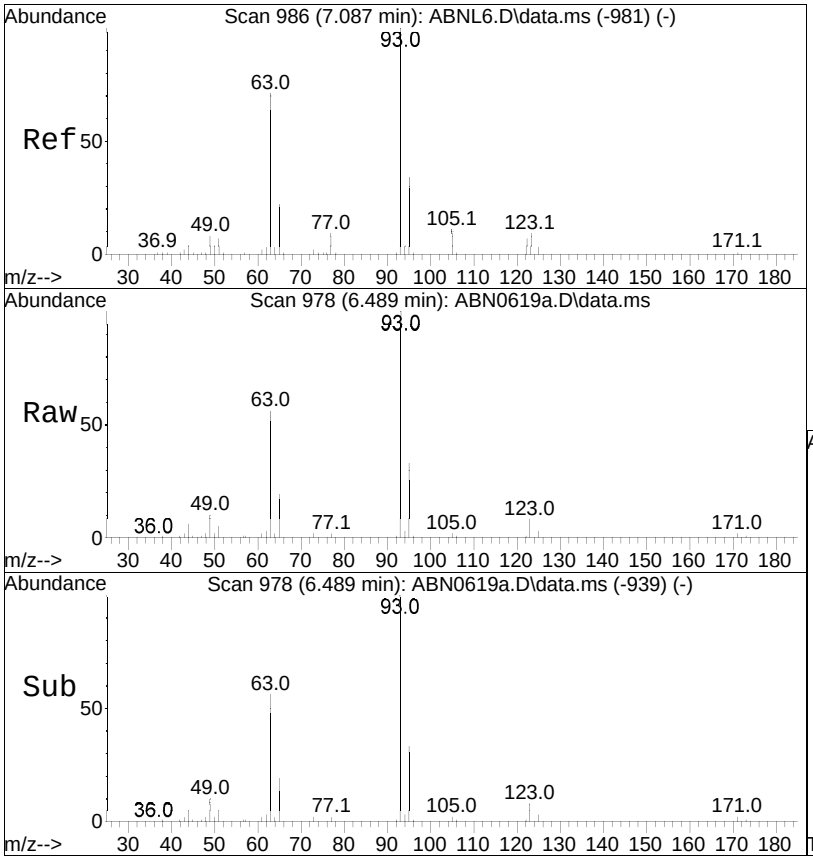


#23
2,4-Dimethylphenol
Concen: 3.99 ug/ml
RT: 6.401 min Scan# 963
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:107 Resp: 74706

Ion	Ratio	Lower	Upper
107	100		
121	50.5	40.0	60.0
122	86.2	70.2	105.4

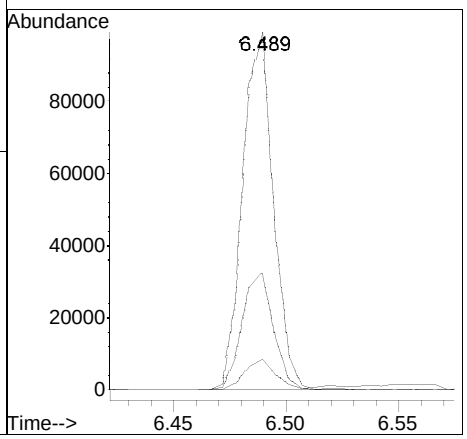


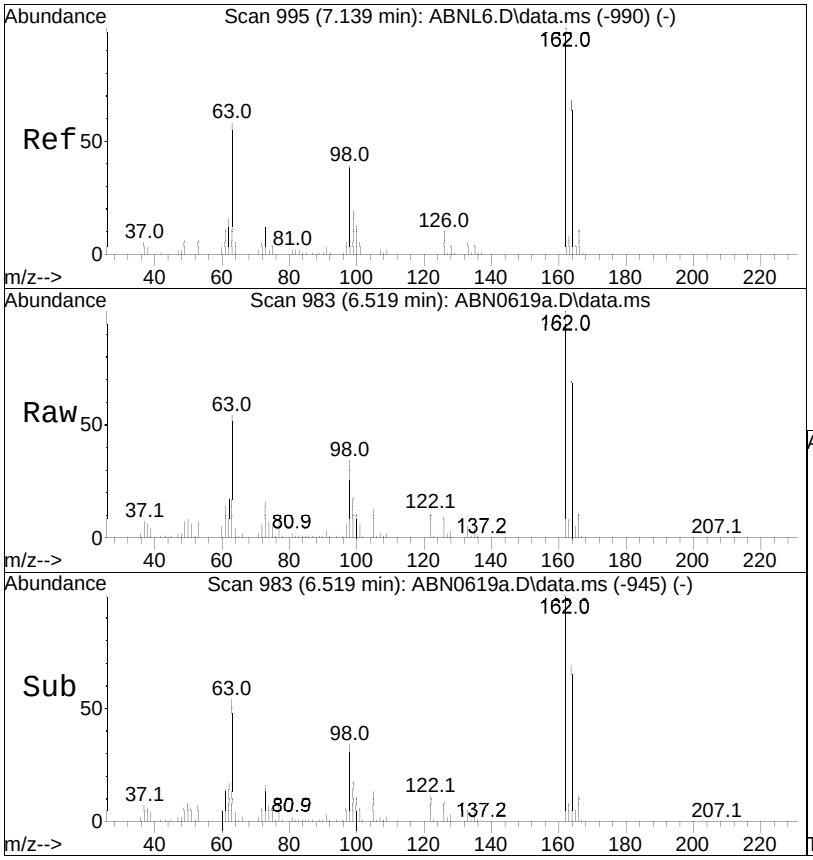


#24
Bis(2-chloroethoxy)methane
Concen: 3.75 ug/ml
RT: 6.489 min Scan# 978
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 93 Resp: 93213

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.8	38.8
123	8.8	10.1	15.1#

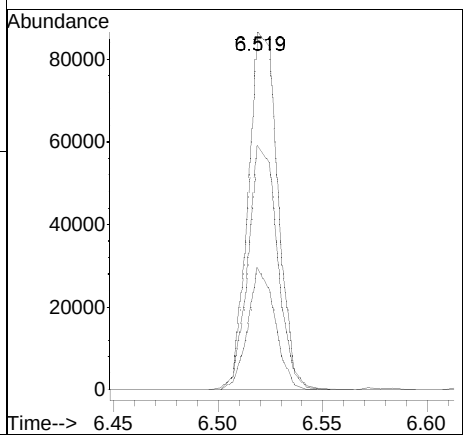


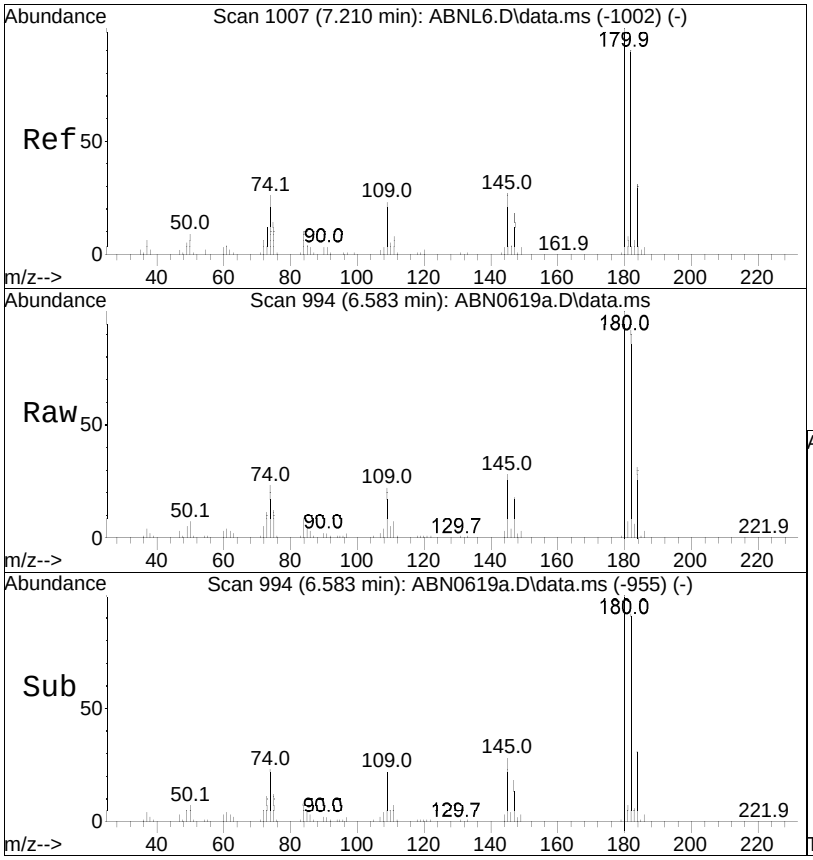


#25
2,4-Dichlorophenol
Concen: 4.98 ug/ml
RT: 6.519 min Scan# 983
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:162 Resp: 84995

Ion	Ratio	Lower	Upper
162	100		
164	67.5	51.0	76.4
98	31.3	32.2	48.2#

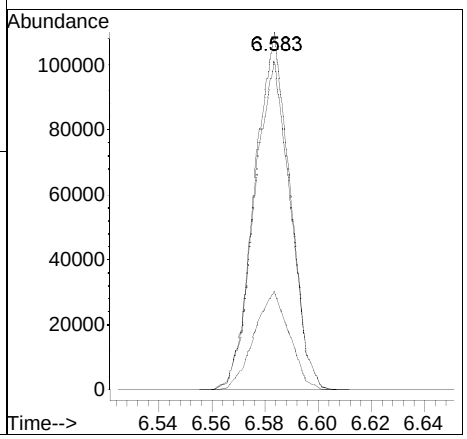


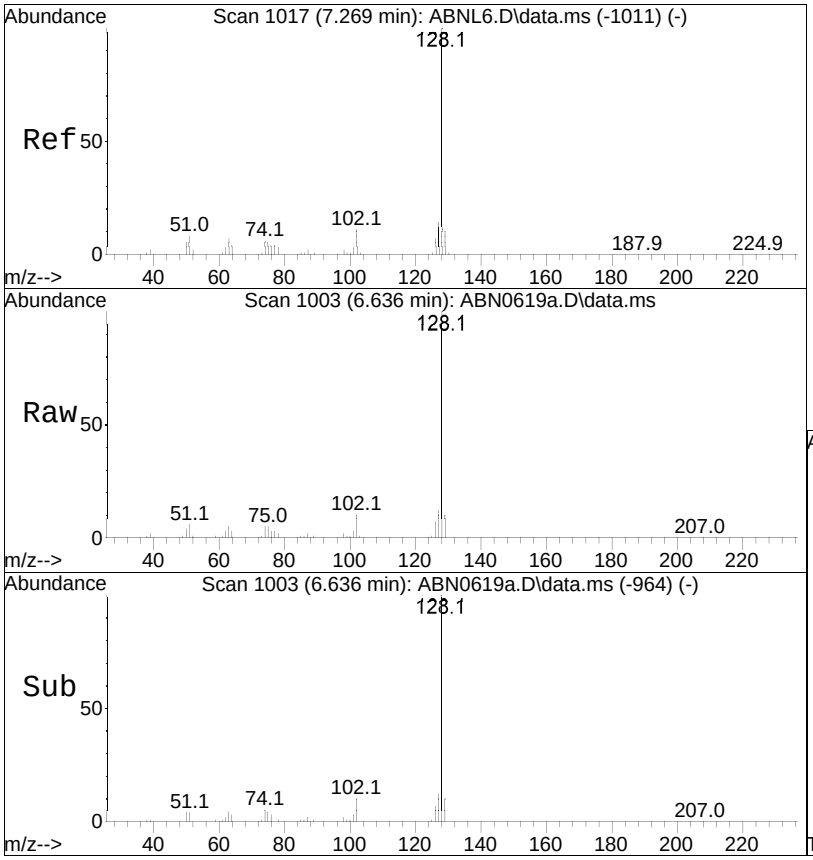


#26
1,2,4-Trichlorobenzene
Concen: 4.82 ug/ml
RT: 6.583 min Scan# 994
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:180 Resp: 100443

Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.0	114.0
145	27.7	25.7	38.5

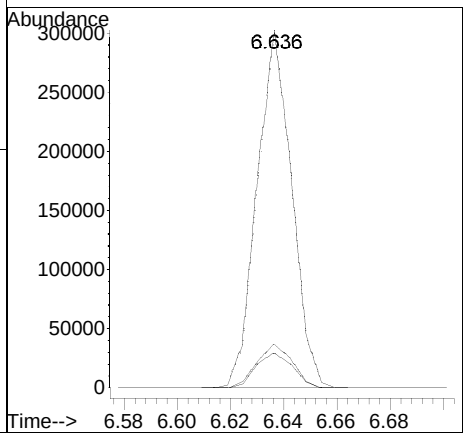


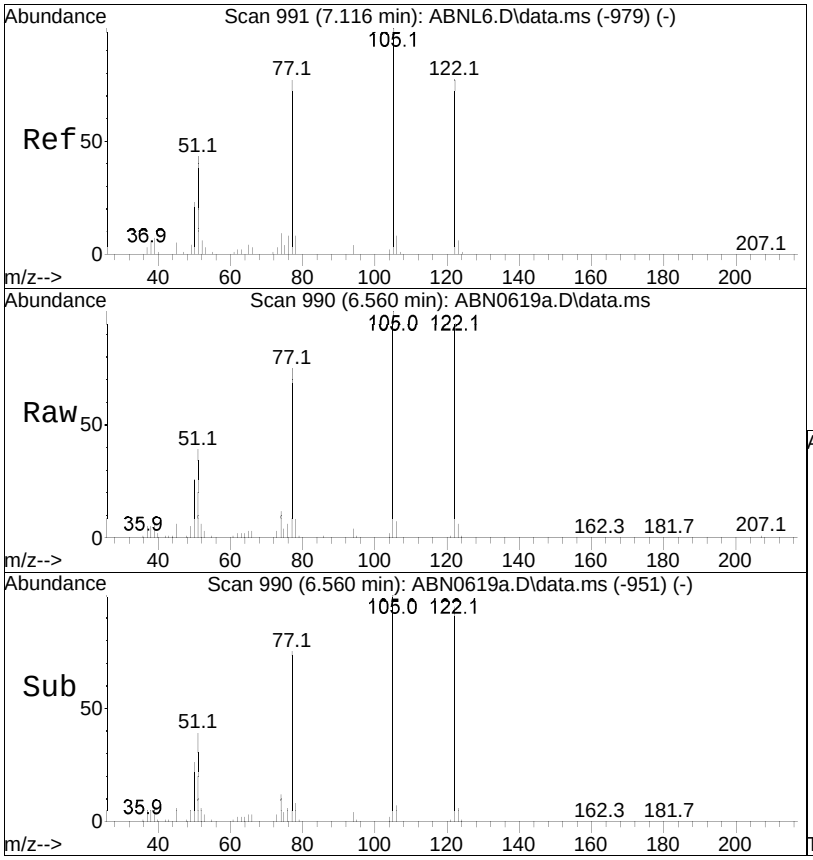


#35
Naphthalene
Concen: 4.82 ug/ml
RT: 6.636 min Scan# 1003
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:128 Resp: 270501

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	12.8	10.3	15.5

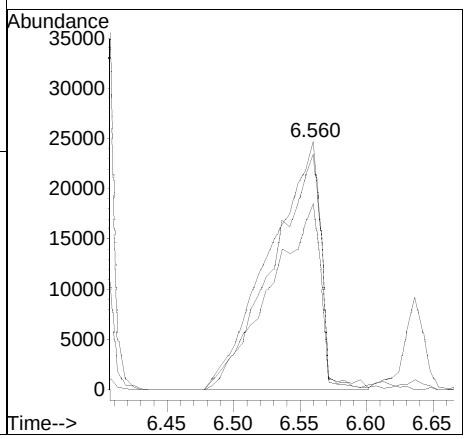


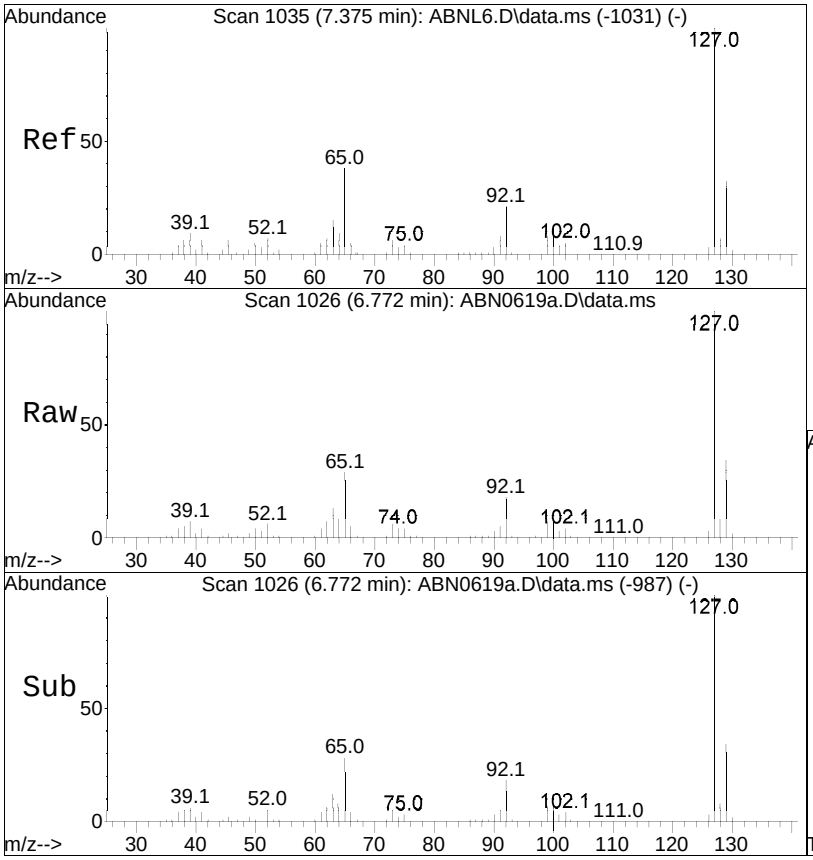


#36
Benzoic Acid
Concen: 4.79 ug/ml
RT: 6.560 min Scan# 990
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:105 Resp: 66107

Ion	Ratio	Lower	Upper
105	100		
122	89.7	59.9	89.9
77	74.2	60.1	90.1

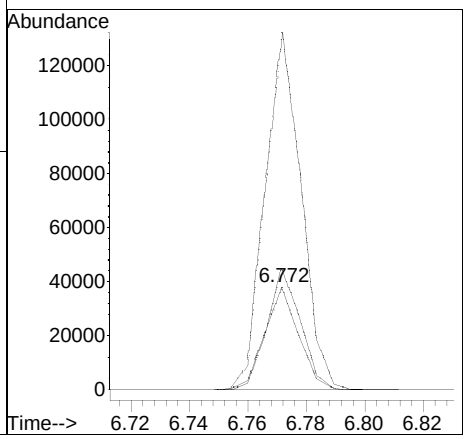


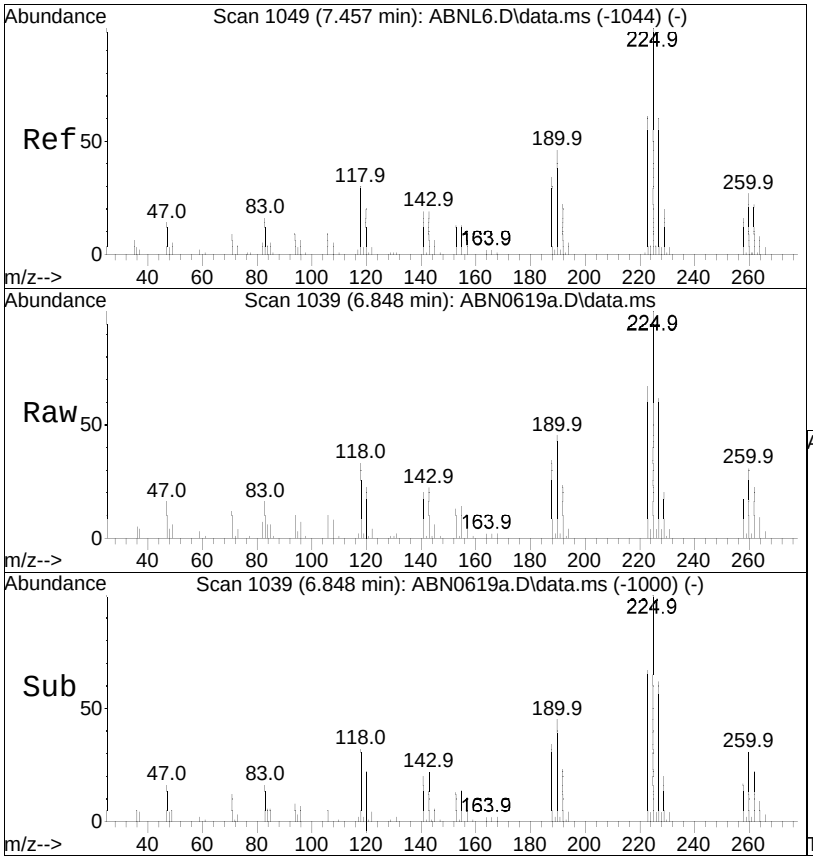


#37
4-Chloroaniline
Concen: 3.65 ug/ml
RT: 6.772 min Scan# 1026
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 65 Resp: 30716

Ion	Ratio	Lower	Upper
65	100		
127	365.7	237.6	356.4#
129	116.0	76.3	114.5#

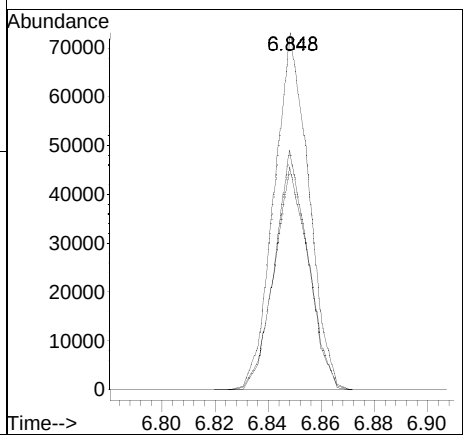


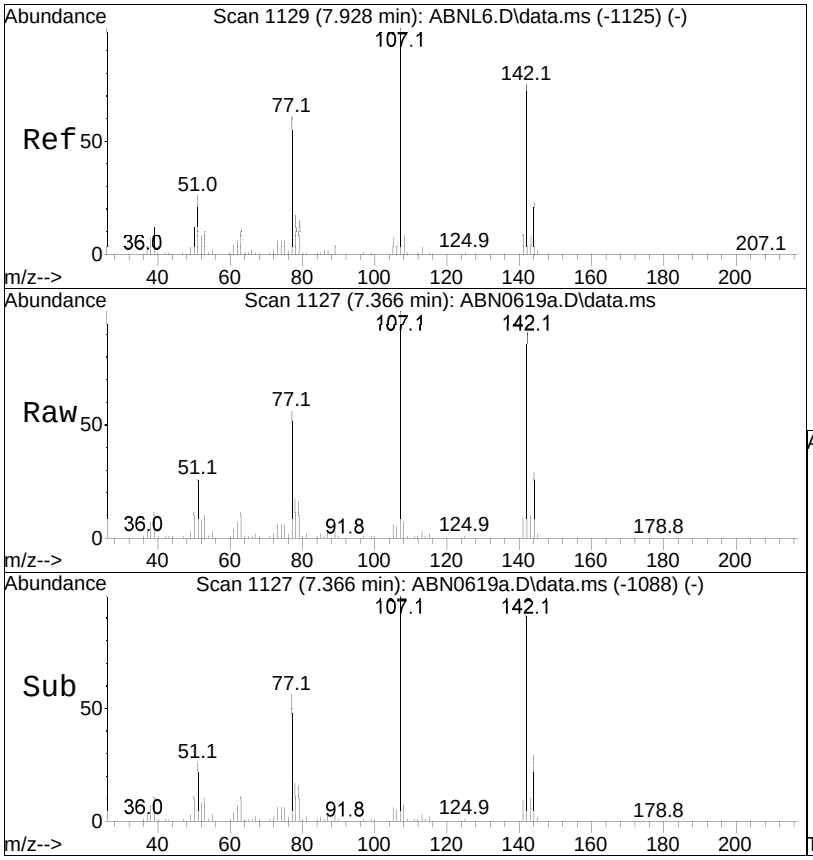


#38
Hexachlorobutadiene
Concen: 4.57 ug/ml
RT: 6.848 min Scan# 1039
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:225 Resp: 66145

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.3	75.5
227	62.2	52.2	78.2

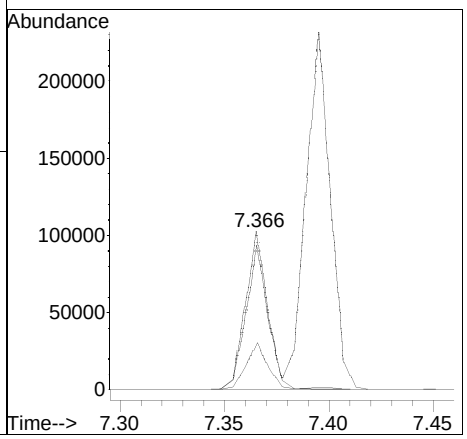


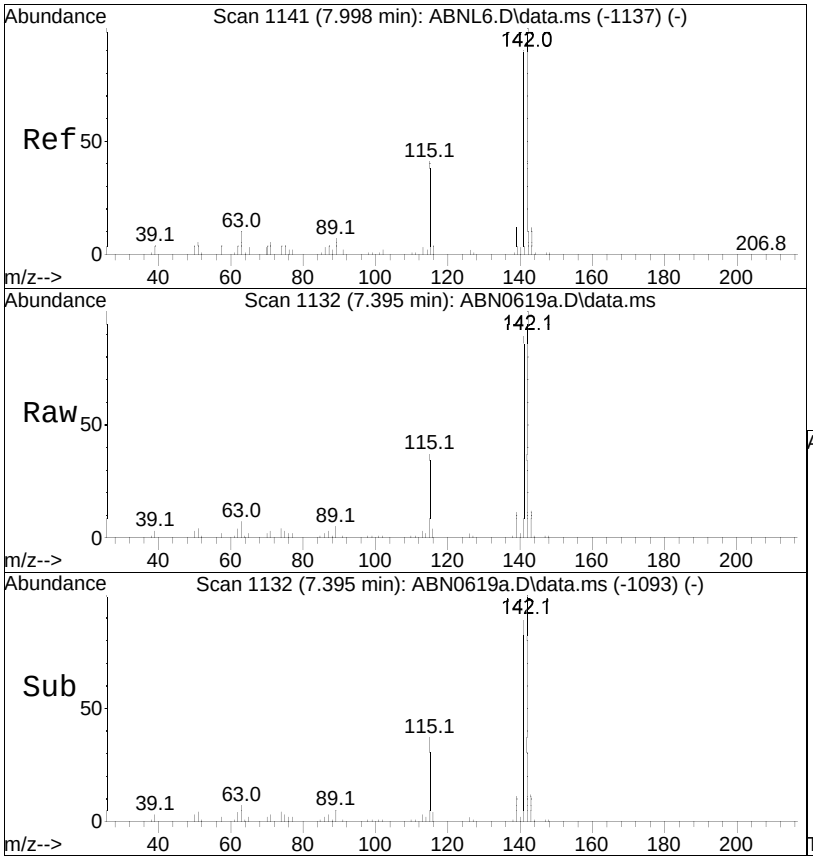


#39
p-Chloro-m-cresol
Concen: 4.38 ug/ml
RT: 7.366 min Scan# 1127
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:107 Resp: 75318

Ion	Ratio	Lower	Upper
107	100		
144	28.9	20.9	31.3
142	90.1	66.1	99.1

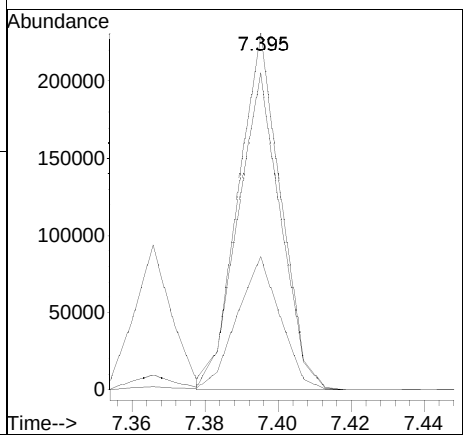


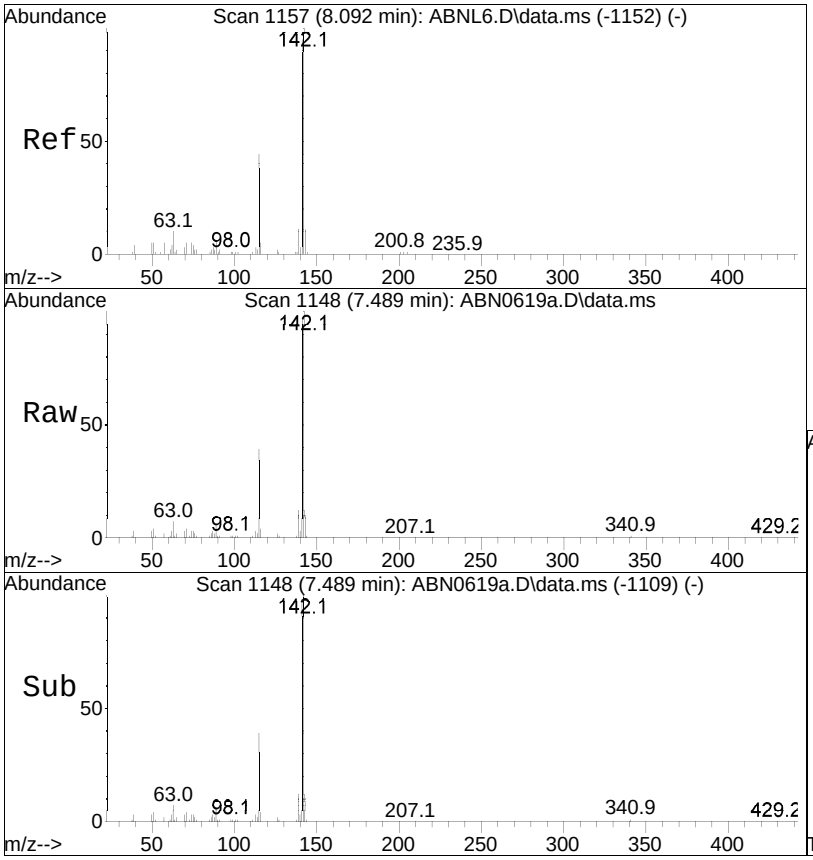


#40
2-Methylnaphthalene
Concen: 4.99 ug/ml
RT: 7.395 min Scan# 1132
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:142 Resp: 186502

Ion	Ratio	Lower	Upper
142	100		
141	93.8	69.6	104.4
115	39.0	26.6	40.0

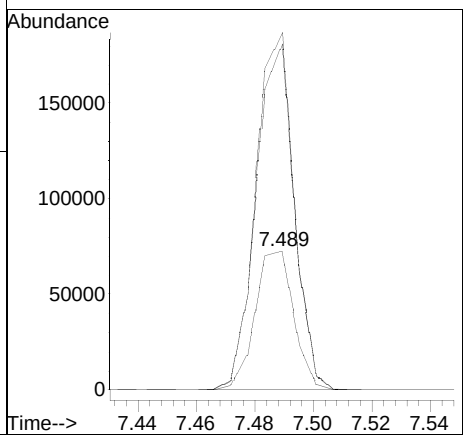


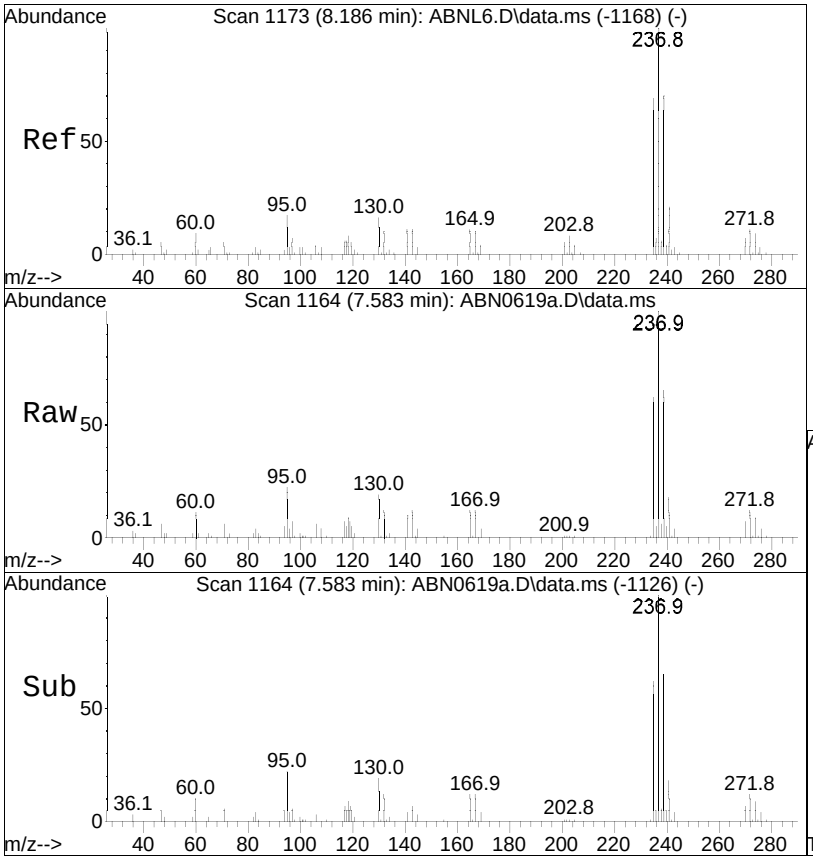


#41
1-Methylnaphthalene
Concen: 4.28 ug/ml
RT: 7.489 min Scan# 1148
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:115 Resp: 66907

Ion	Ratio	Lower	Upper
115	100		
141	243.6	207.8	311.6
142	253.8	226.8	340.2

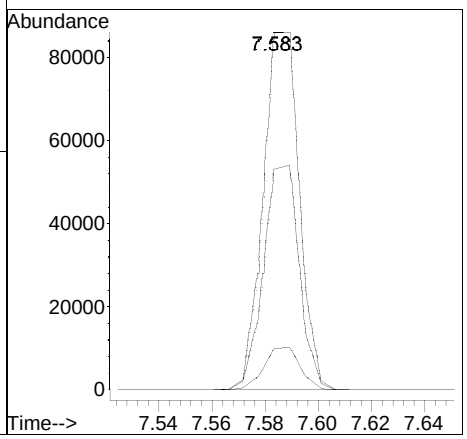


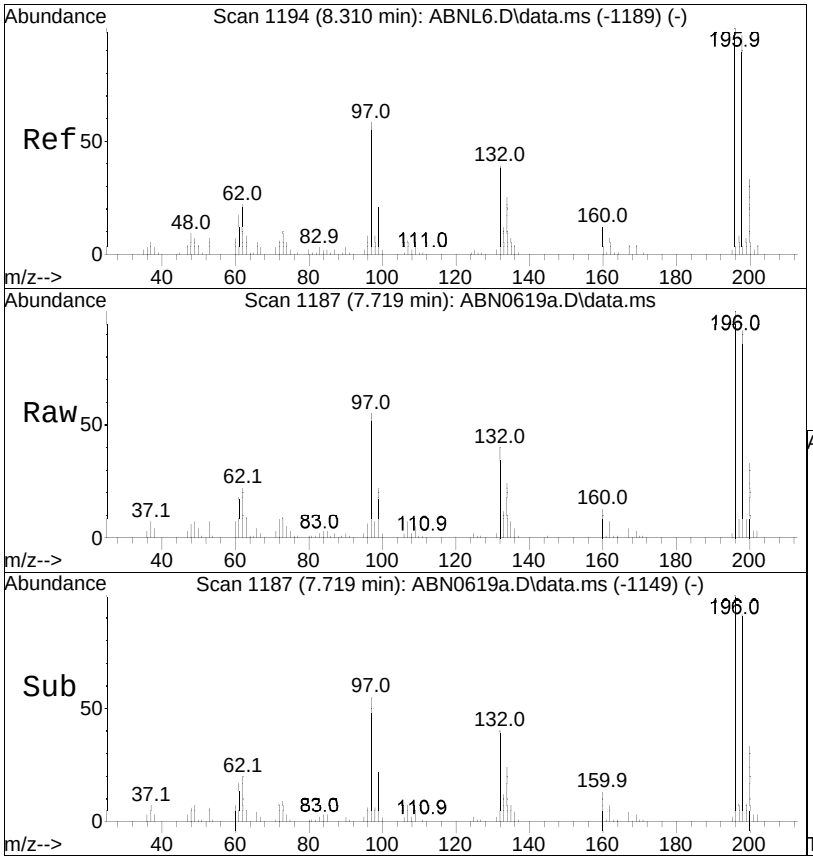


#42
Hexachlorocyclopentadiene
Concen: 5.61 ug/ml
RT: 7.583 min Scan# 1164
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:237 Resp: 80666

Ion	Ratio	Lower	Upper
237	100		
235	62.0	49.7	74.5
272	12.3	9.8	14.6

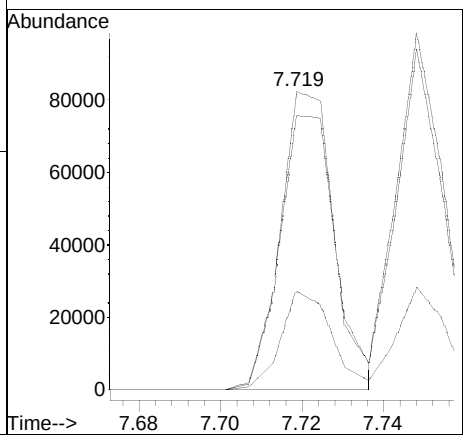


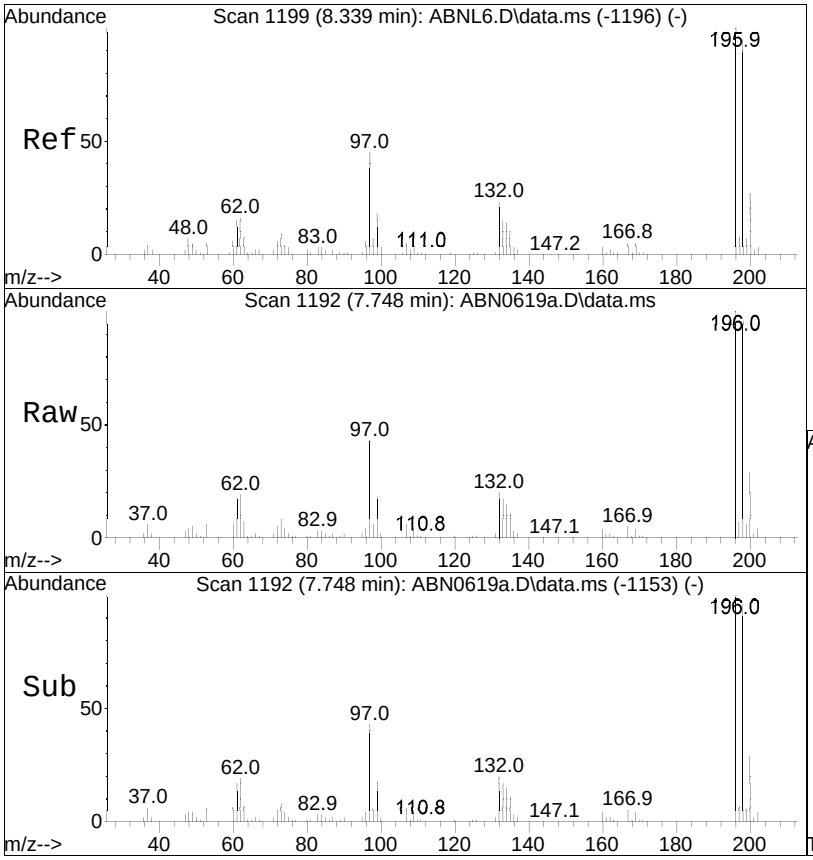


#43
2,4,6-Trichlorophenol
Concen: 5.38 ug/ml M3
RT: 7.719 min Scan# 1187
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:196 Resp: 75263

Ion	Ratio	Lower	Upper
196	100		
198	97.5	77.5	116.3
200	30.5	23.8	35.6

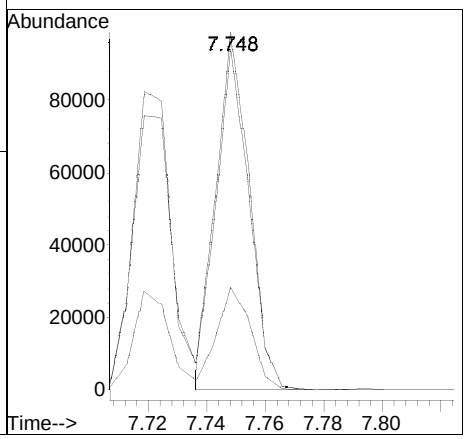


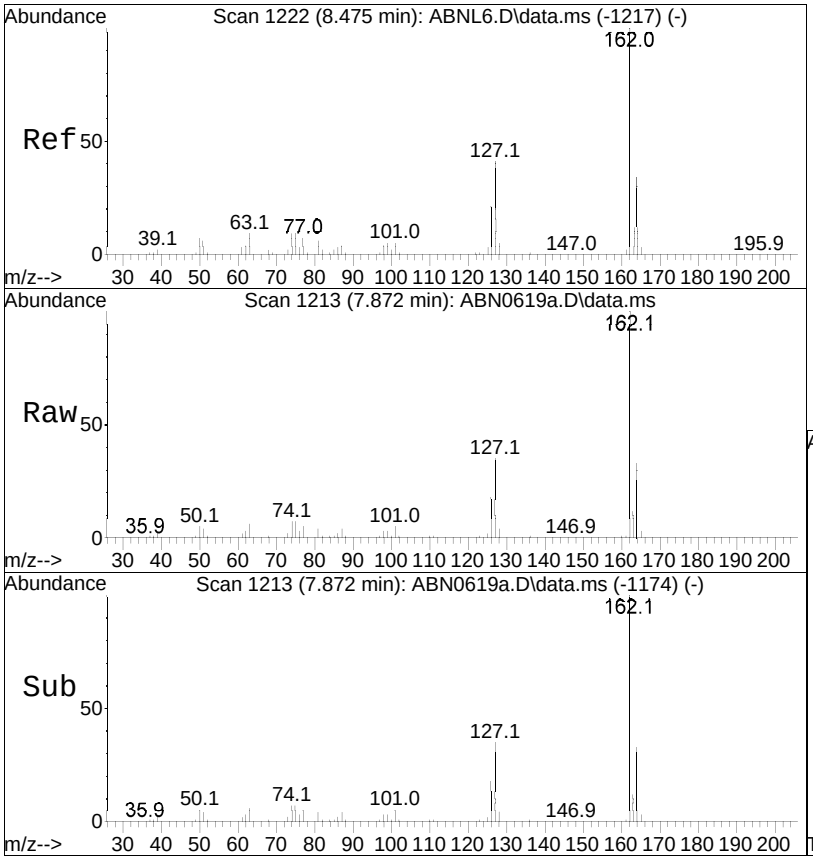


#44
2,4,5-Trichlorophenol
Concen: 5.13 ug/ml
RT: 7.748 min Scan# 1192
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:196 Resp: 78154

Ion	Ratio	Lower	Upper
196	100		
200	29.3	25.4	38.0
198	93.9	78.0	117.0

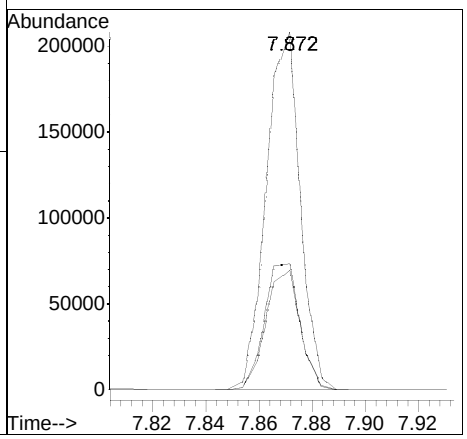


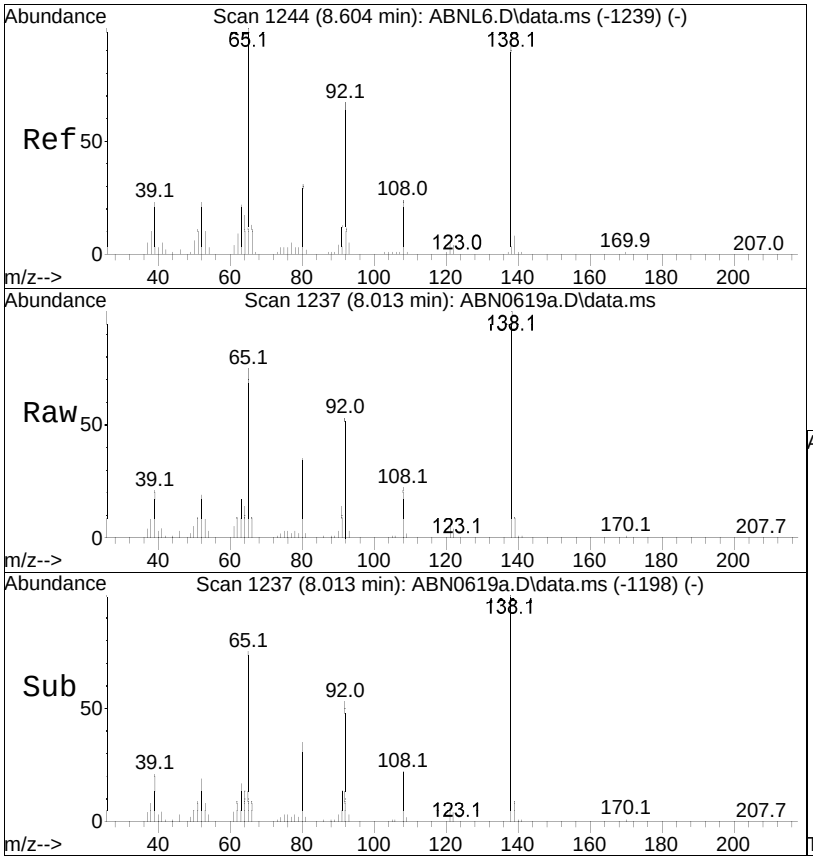


#46
2-Chloronaphthalene
Concen: 4.67 ug/ml
RT: 7.872 min Scan# 1213
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:162 Resp: 182748

Ion	Ratio	Lower	Upper
162	100		
127	37.0	32.2	48.4
164	34.2	25.7	38.5

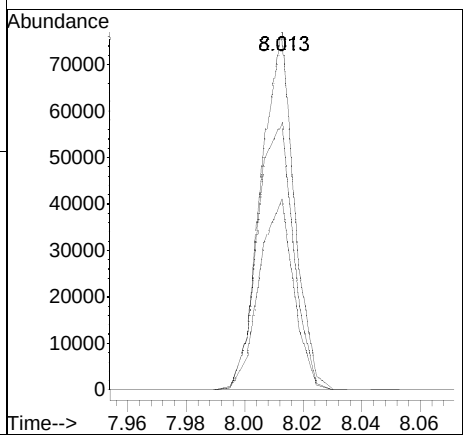


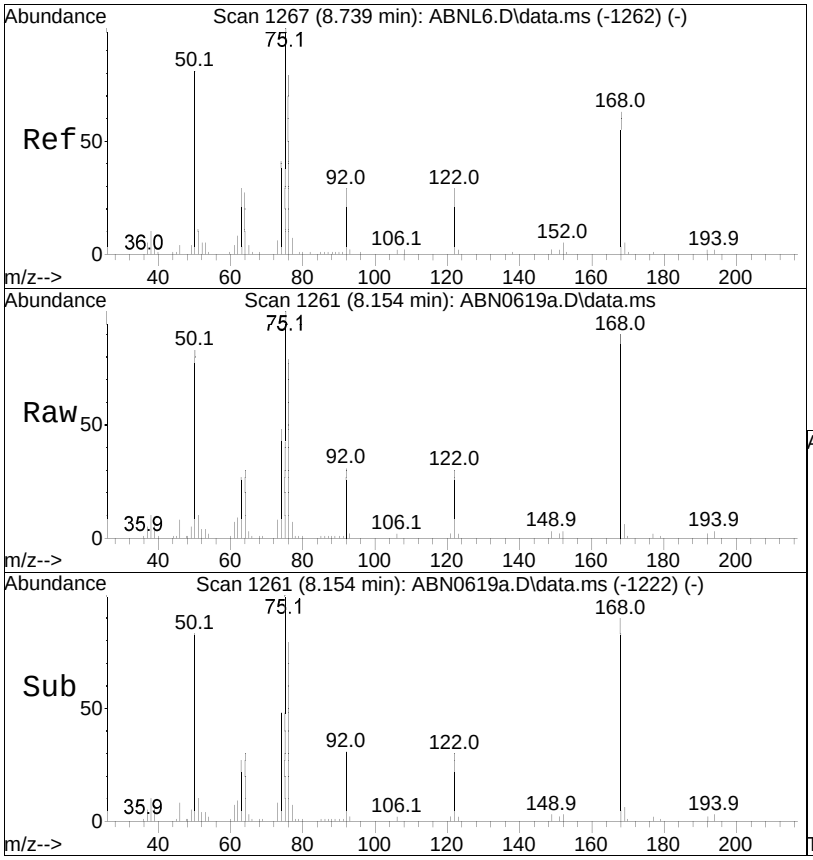


#47
2-Nitroaniline
Concen: 5.33 ug/ml
RT: 8.013 min Scan# 1237
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:138 Resp: 60300

Ion	Ratio	Lower	Upper
138	100		
92	55.5	53.5	80.3
65	80.9	86.3	129.5#

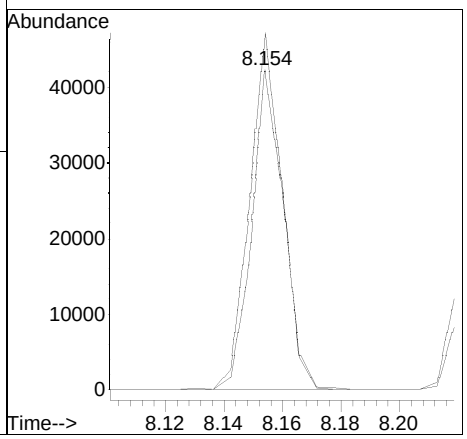


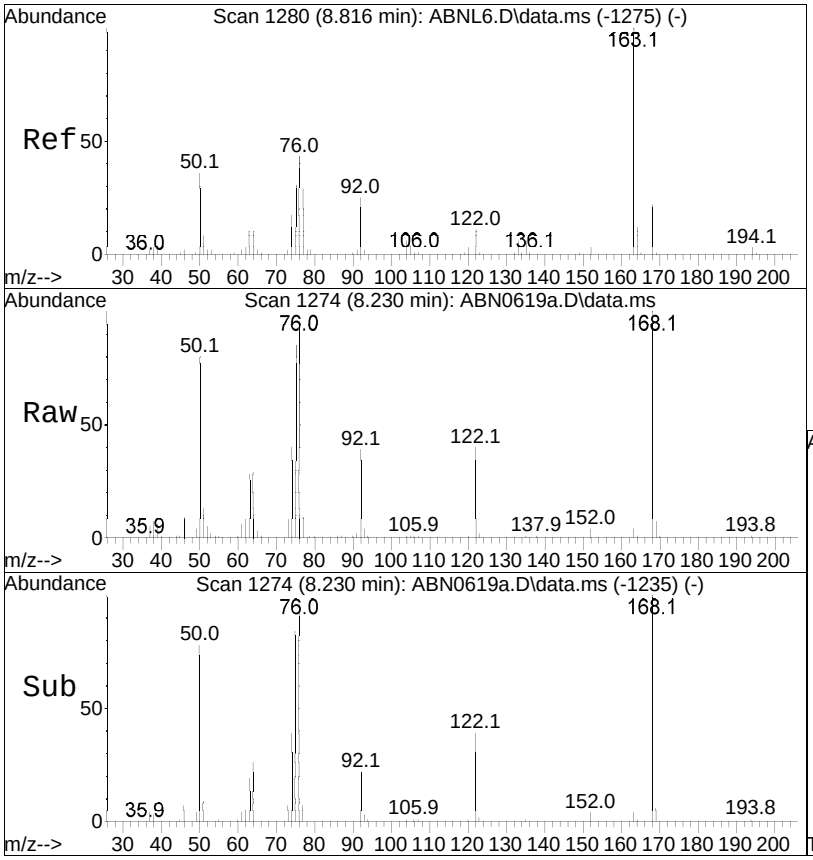


#48
1,4-Dinitrobenzene
Concen: 5.32 ug/ml
RT: 8.154 min Scan# 1261
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:168 Resp: 31903

Ion	Ratio	Lower	Upper
168	100		
75	114.2	121.8	182.8#

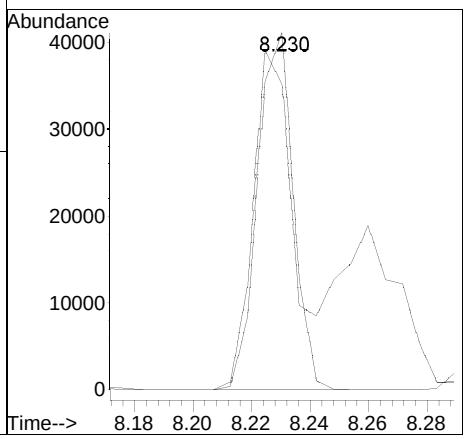


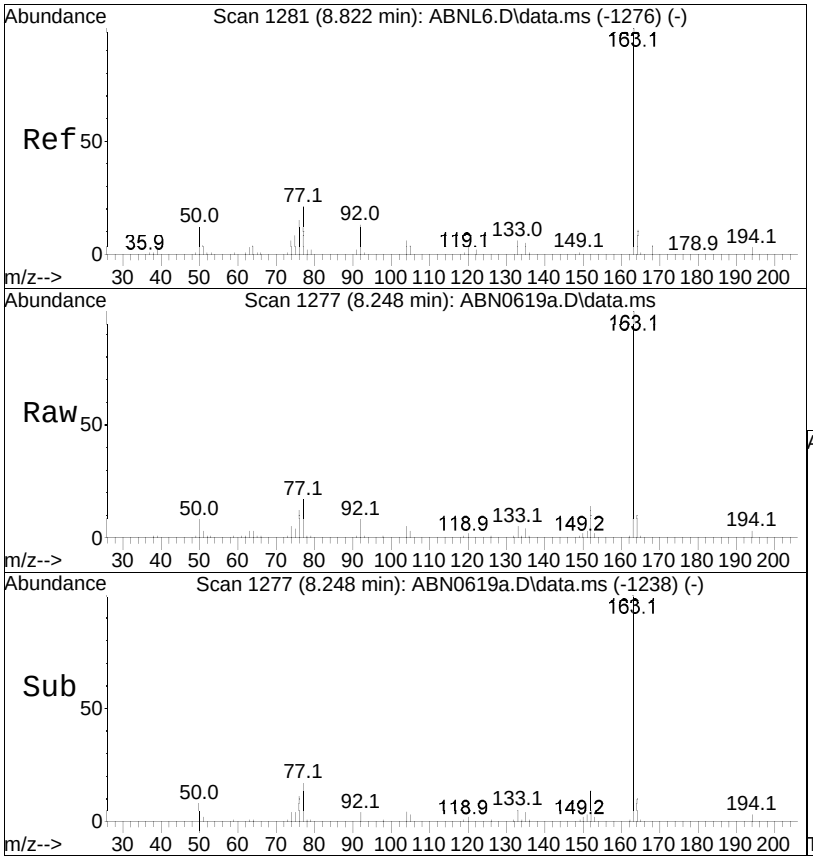


#49
1,3-Dinitrobenzene
Concen: 5.09 ug/ml
RT: 8.230 min Scan# 1274
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:168 Resp: 34922

Ion	Ratio	Lower	Upper
168	100		
75	106.4	22.7	34.1#

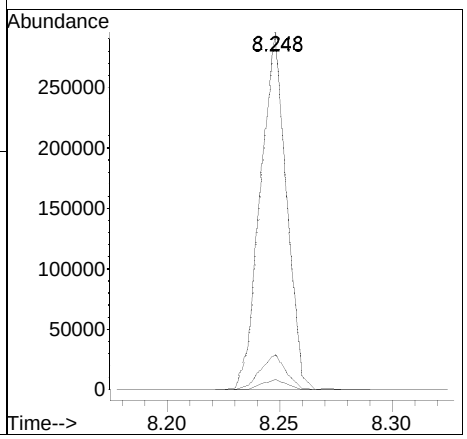


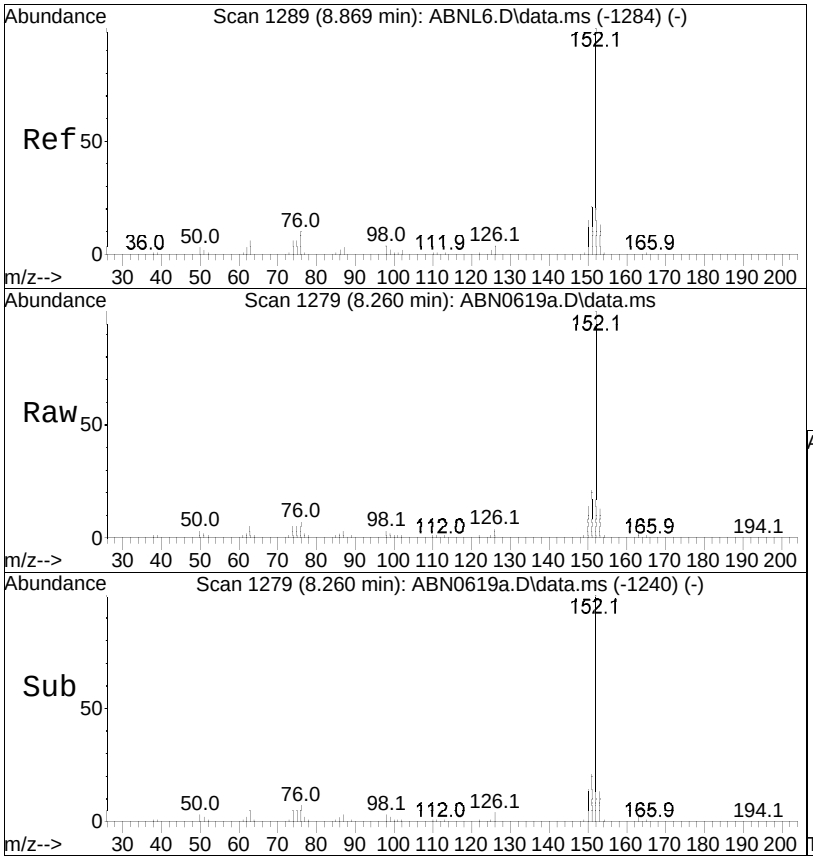


#50
Dimethyl phthalate
Concen: 4.51 ug/ml
RT: 8.248 min Scan# 1277
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:163 Resp: 233145

Ion	Ratio	Lower	Upper
163	100		
194	2.9	3.5	5.3#
164	10.3	7.9	11.9

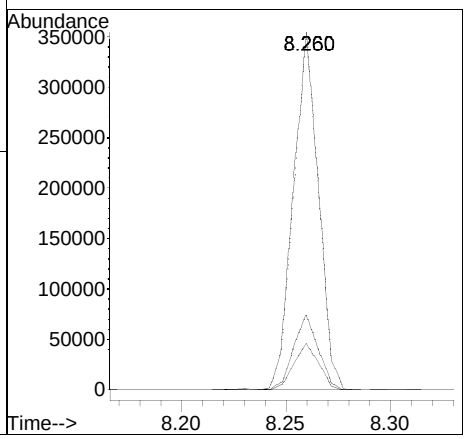


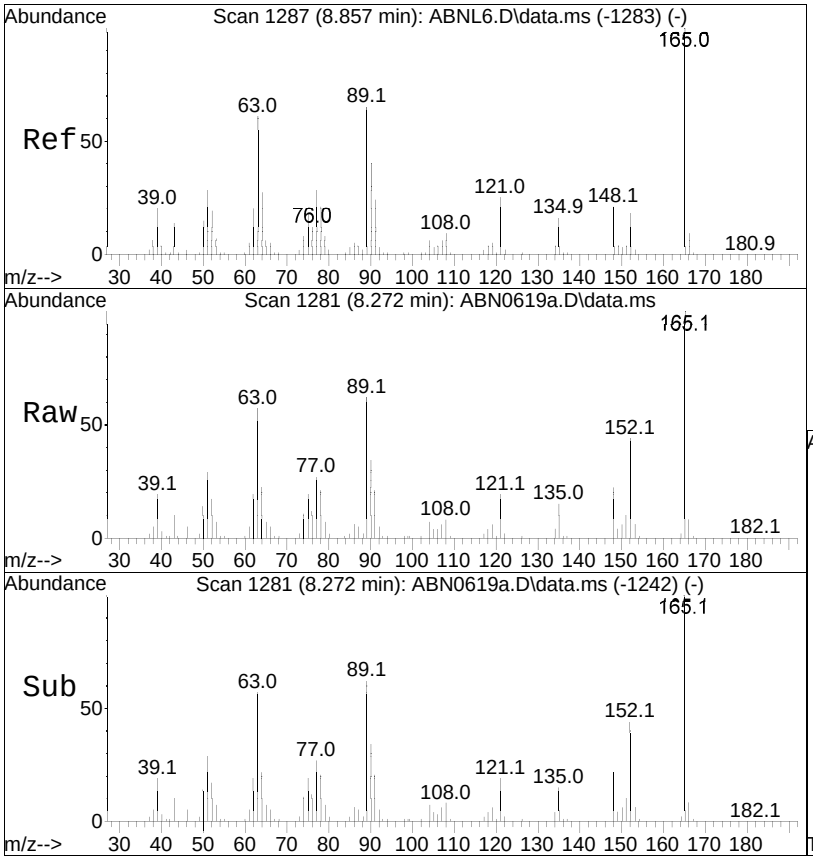


#51
Acenaphthylene
Concen: 4.83 ug/ml
RT: 8.260 min Scan# 1279
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:152 Resp: 293806

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.8	23.6
153	13.1	10.5	15.7

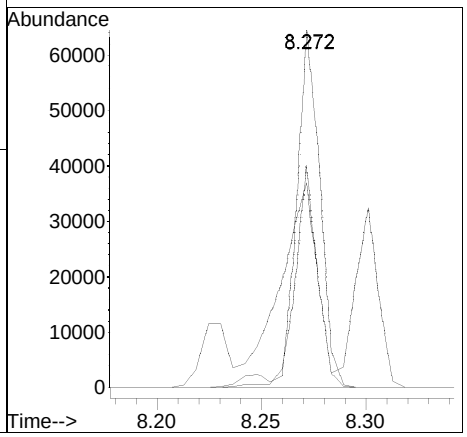


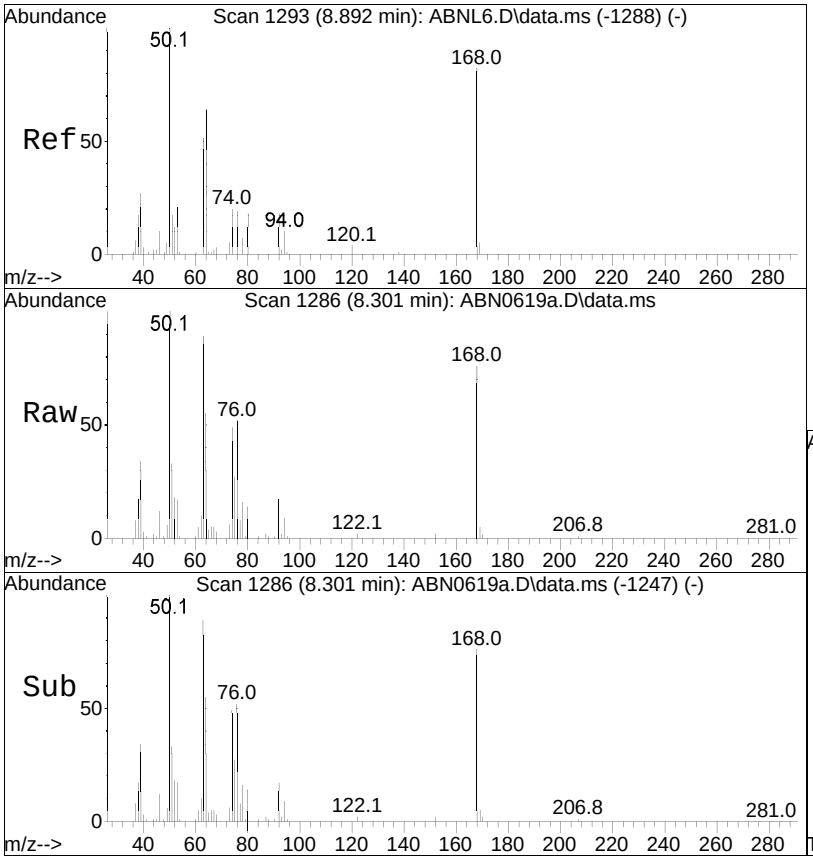


#52
2,6-Dinitrotoluene
Concen: 4.94 ug/ml
RT: 8.272 min Scan# 1281
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:165 Resp: 51253

Ion	Ratio	Lower	Upper
165	100		
89	57.4	54.2	81.2
63	87.0	64.2	96.2

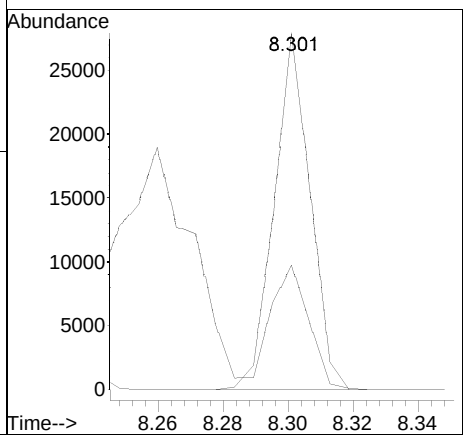


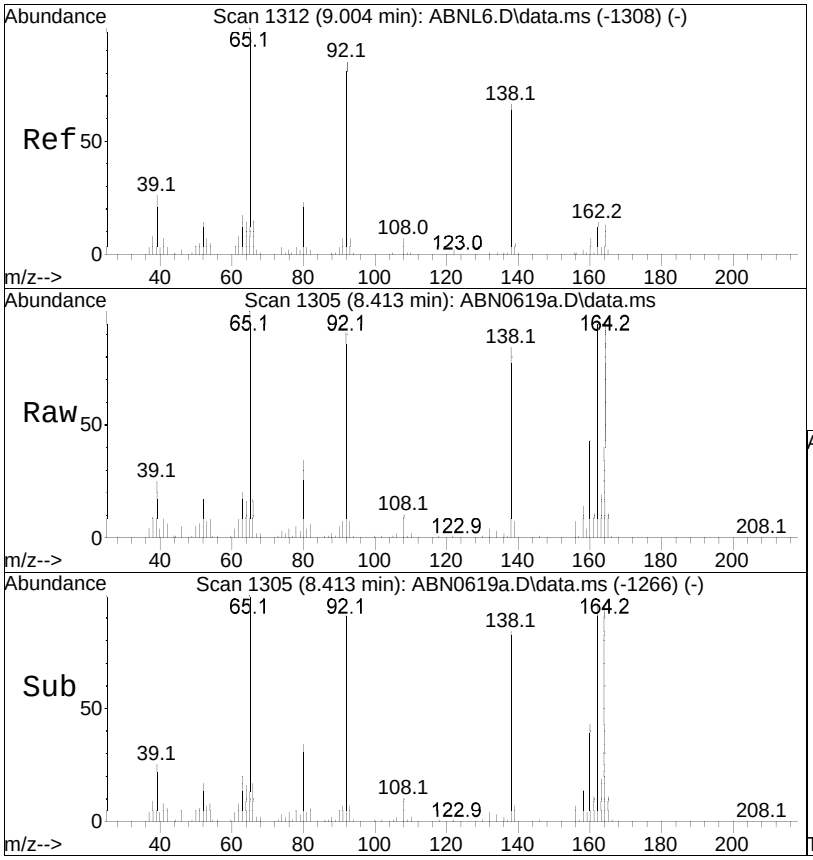


#53
1,2-Dinitrobenzene
Concen: 5.24 ug/ml
RT: 8.301 min Scan# 1286
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:168 Resp: 21375

Ion	Ratio	Lower	Upper
168	100		
75	38.0	30.9	46.3

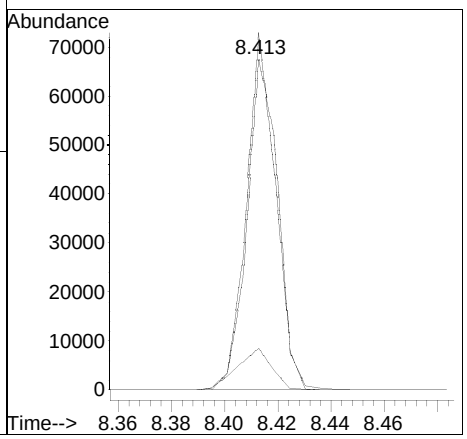


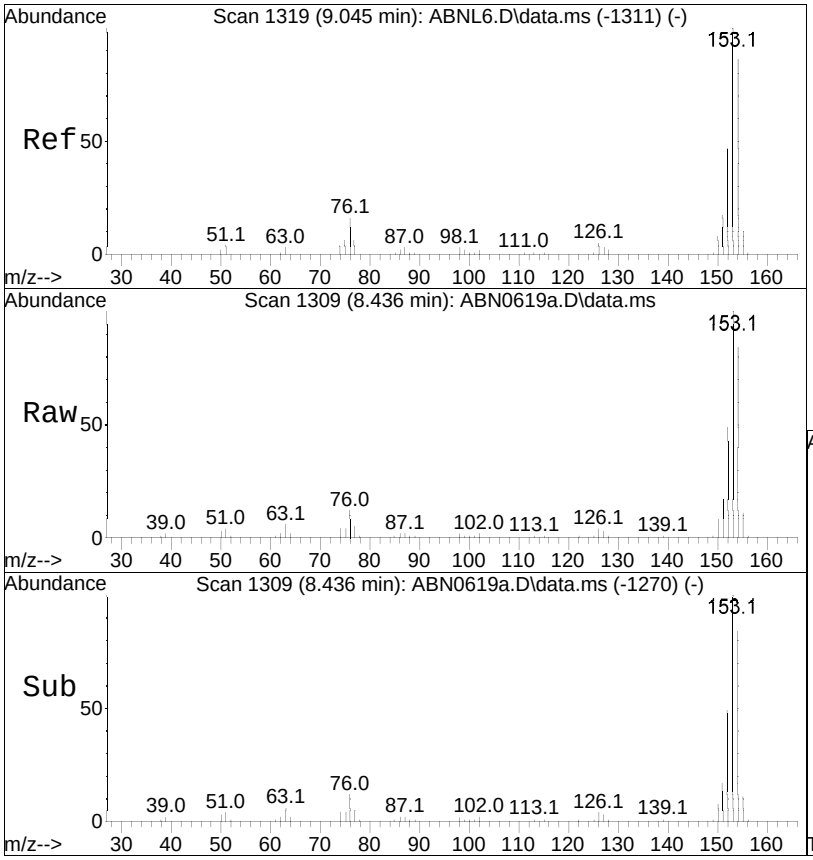


#63
3-Nitroaniline
Concen: 5.55 ug/ml
RT: 8.413 min Scan# 1305
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:138 Resp: 54532

Ion	Ratio	Lower	Upper
138	100		
92	101.6	93.4	140.2
108	14.2	9.5	14.3

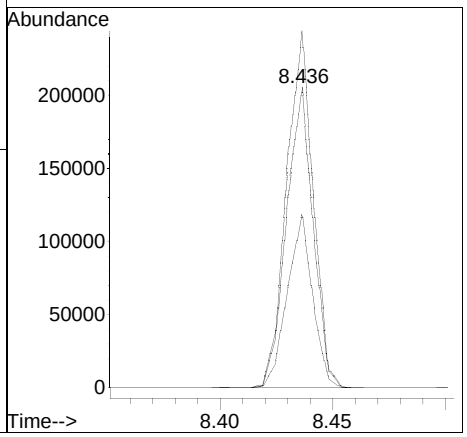


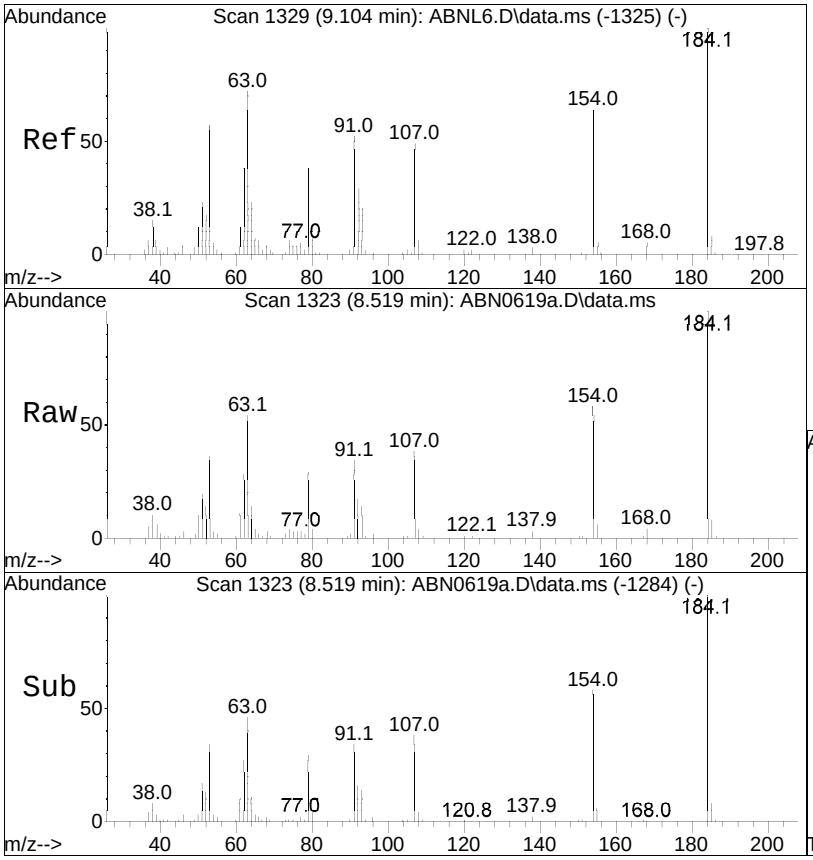


#64
Acenaphthene
Concen: 5.10 ug/ml
RT: 8.436 min Scan# 1309
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:154 Resp: 169342

Ion	Ratio	Lower	Upper
154	100		
153	118.8	85.3	127.9
152	55.0	41.4	62.0

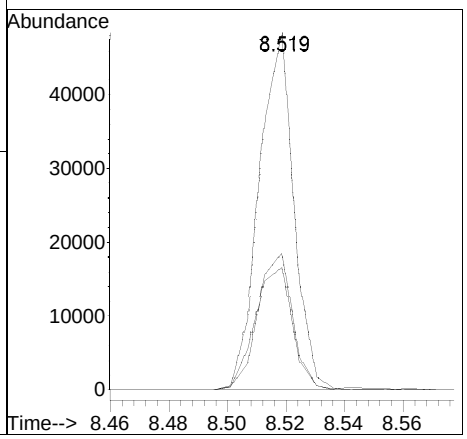


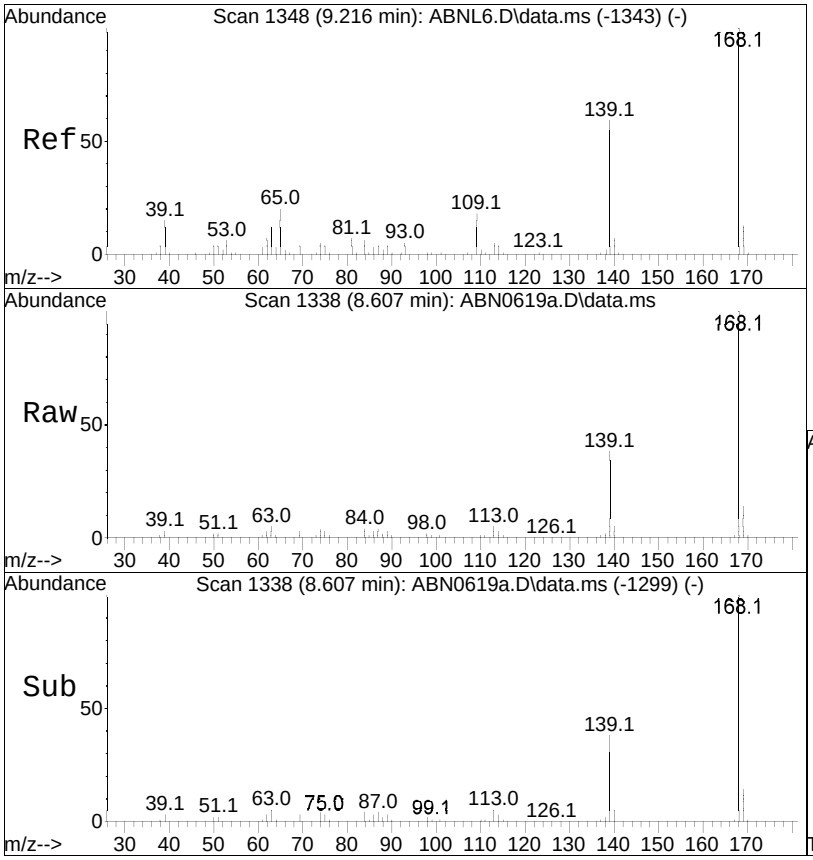


#65
2,4-Dinitrophenol
Concen: 6.32 ug/ml
RT: 8.519 min Scan# 1323
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:184 Resp: 39564

Ion	Ratio	Lower	Upper
184	100		
107	39.5	37.7	56.5
91	37.4	46.3	69.5#

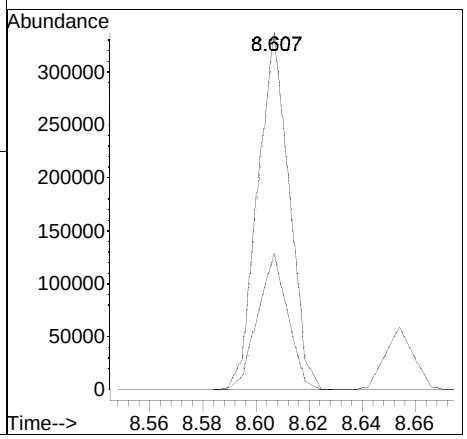


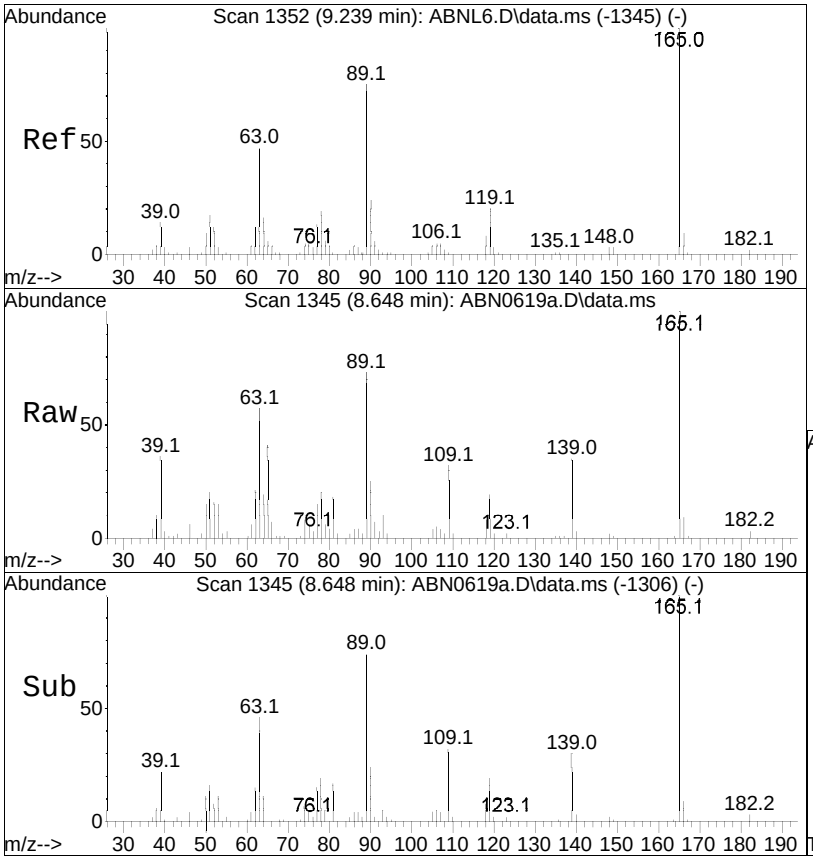


#66
Dibenzofuran
Concen: 4.72 ug/ml
RT: 8.607 min Scan# 1338
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:168 Resp: 274264

Ion	Ratio	Lower	Upper
168	100		
139	37.0	31.4	47.2

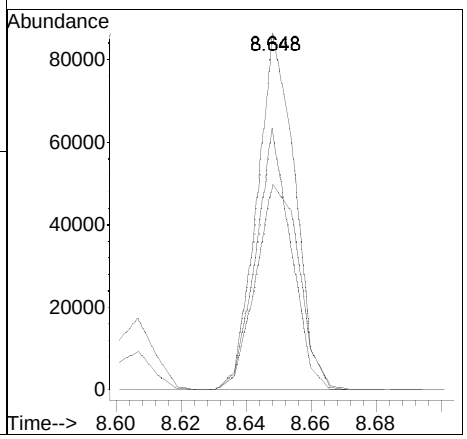


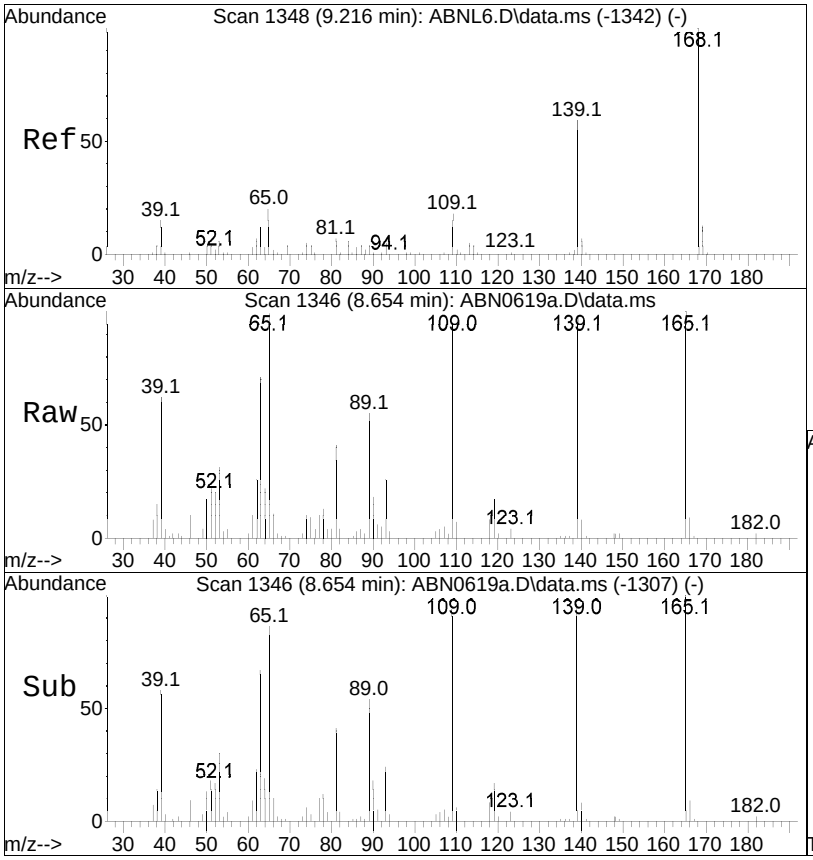


#67
2,4-Dinitrotoluene
Concen: 5.21 ug/ml
RT: 8.648 min Scan# 1345
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:165 Resp: 69647

Ion	Ratio	Lower	Upper
165	100		
89	67.8	72.0	108.0#
63	66.4	52.7	79.1

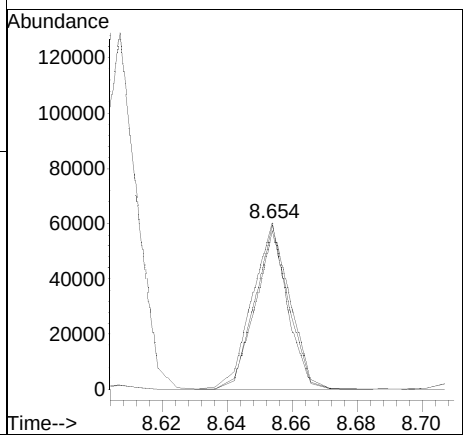


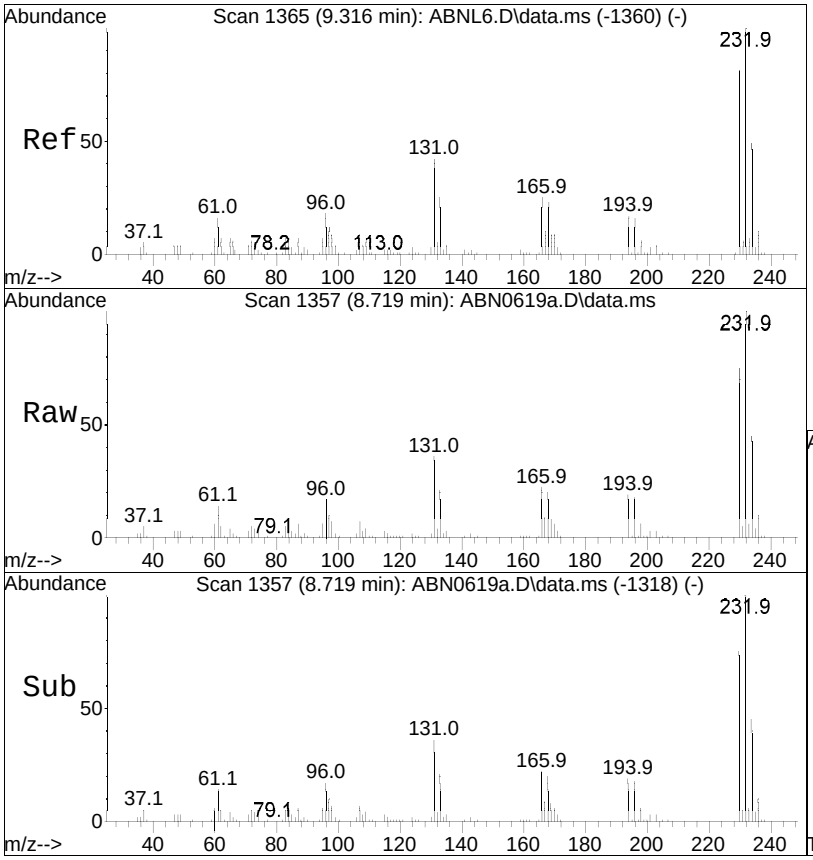


#68
4-Nitrophenol
Concen: 4.28 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 65 Resp: 45058

Ion	Ratio	Lower	Upper
65	100		
109	92.8	47.4	71.2#
139	99.3	76.6	115.0

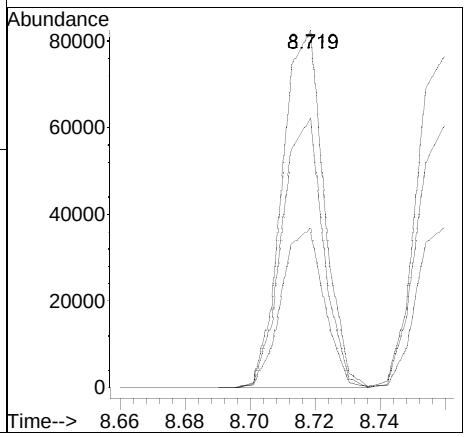


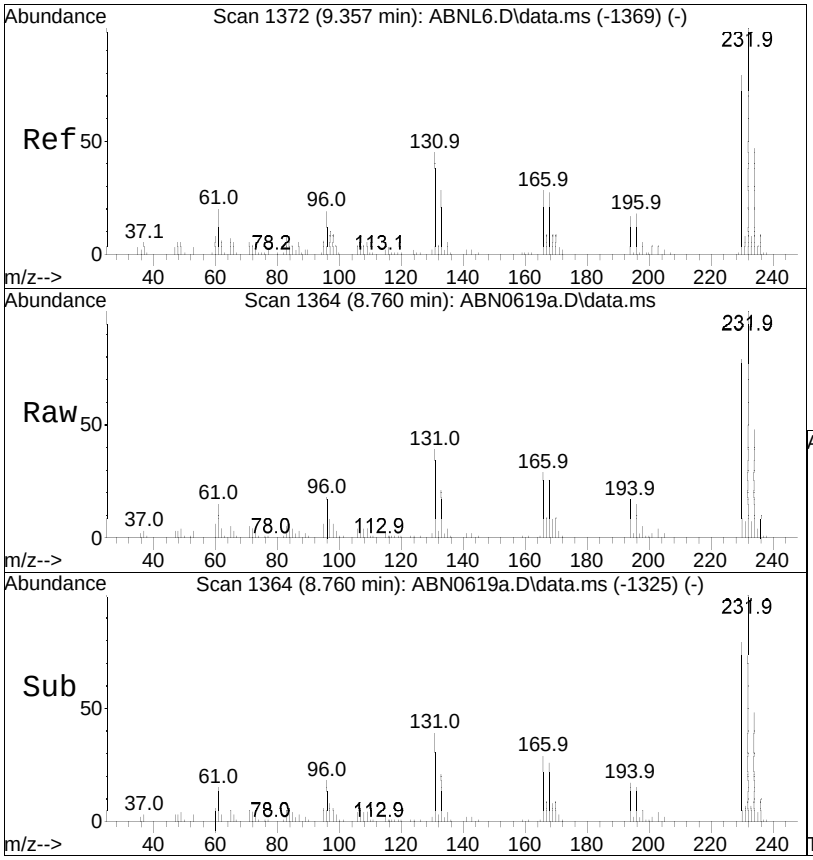


#69
2,3,5,6-Tetrachlorophenol
Concen: 6.25 ug/ml
RT: 8.719 min Scan# 1357
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:232 Resp: 73870

Ion	Ratio	Lower	Upper
232	100		
230	74.6	64.2	96.4
234	45.7	38.1	57.1

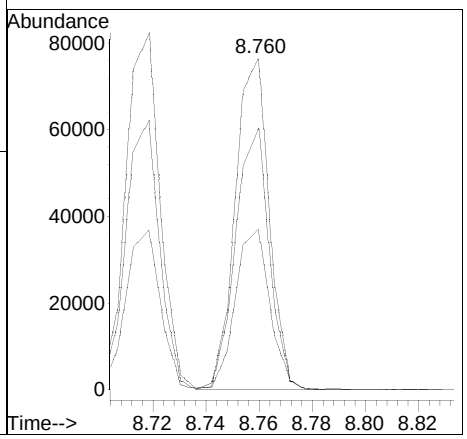


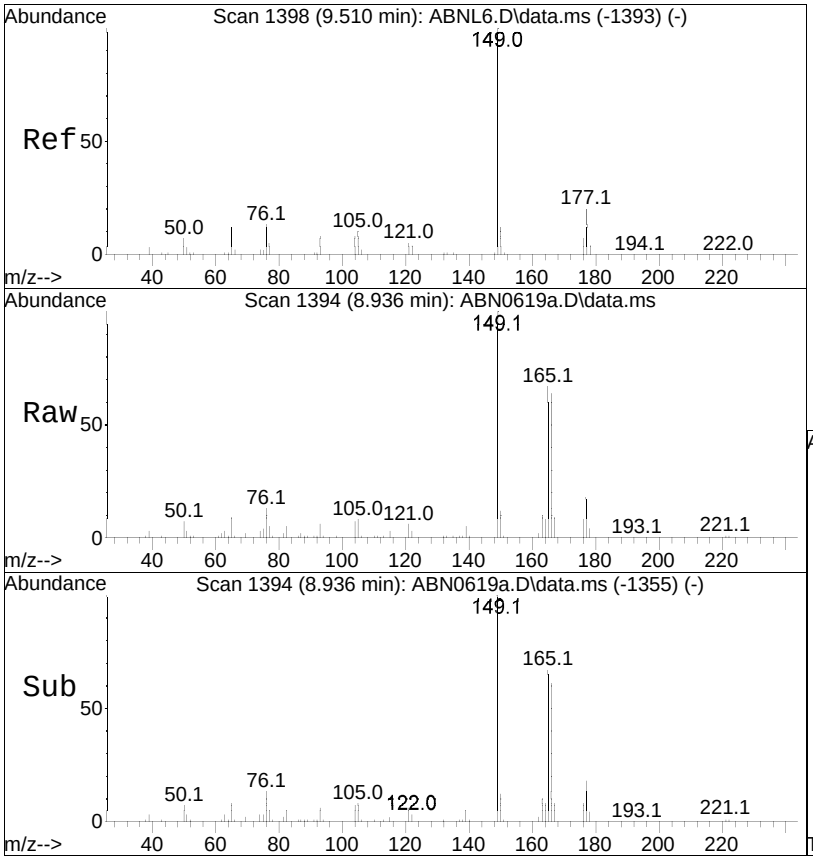


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.87 ug/ml
RT: 8.760 min Scan# 1364
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:232 Resp: 68172

Ion	Ratio	Lower	Upper
232	100		
230	78.4	61.8	92.8
234	49.3	36.2	54.2

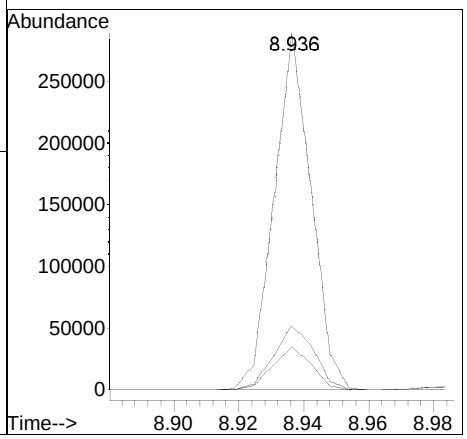


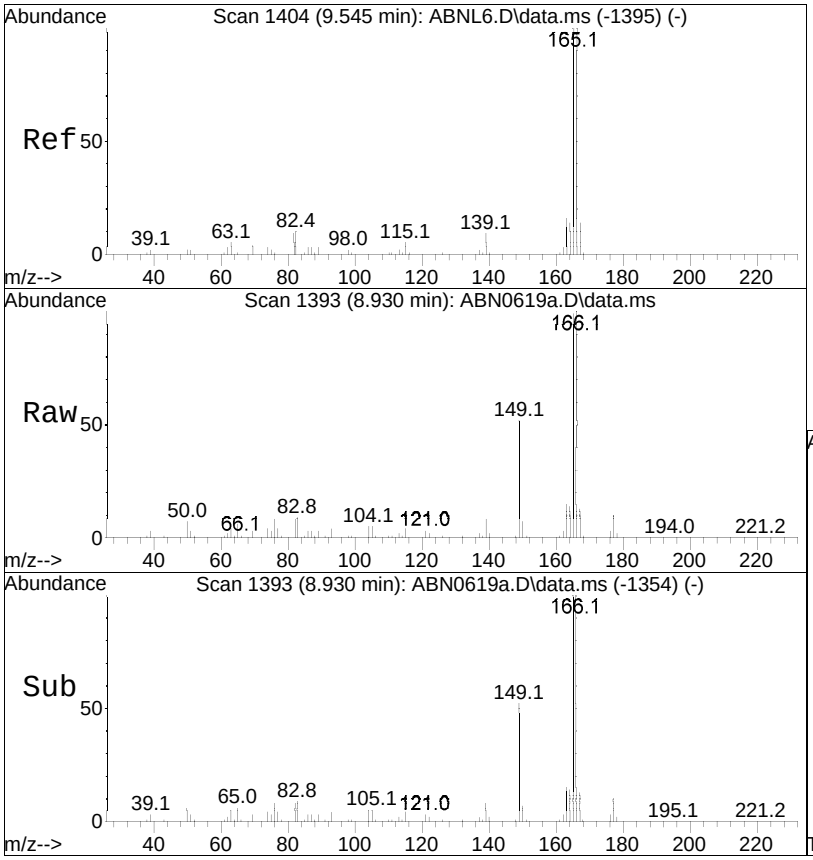


#71
Diethyl phthalate
Concen: 4.70 ug/ml
RT: 8.936 min Scan# 1394
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:149 Resp: 227463

Ion	Ratio	Lower	Upper
149	100		
177	19.6	16.1	24.1
150	12.7	9.4	14.2

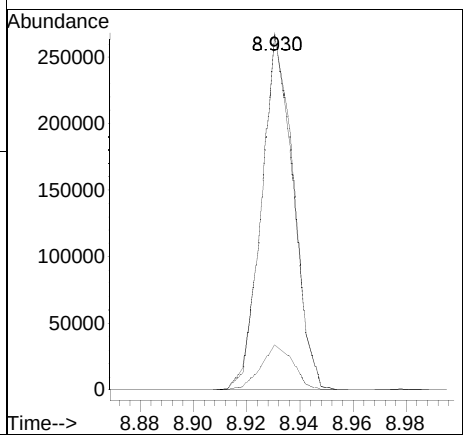


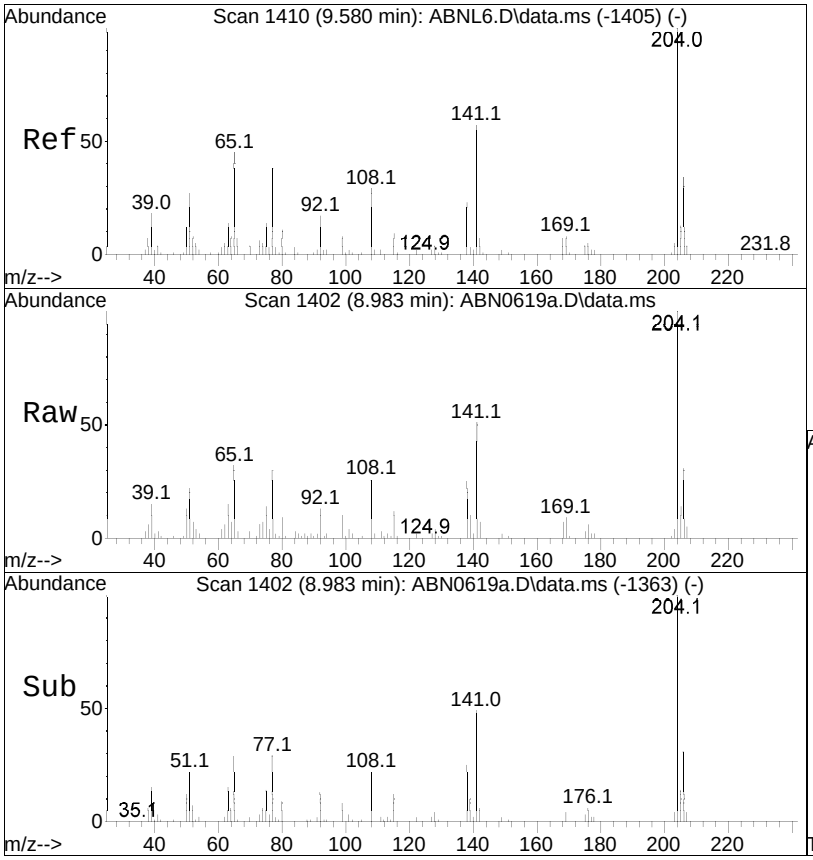


#72
Fluorene
Concen: 4.83 ug/ml
RT: 8.930 min Scan# 1393
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:166 Resp: 220605

Ion	Ratio	Lower	Upper
166	100		
165	100.8	76.2	114.2
167	13.1	10.6	15.8

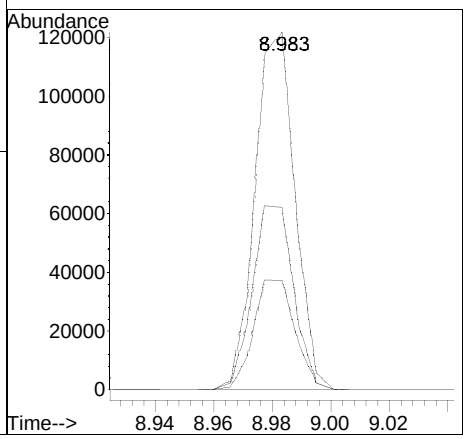


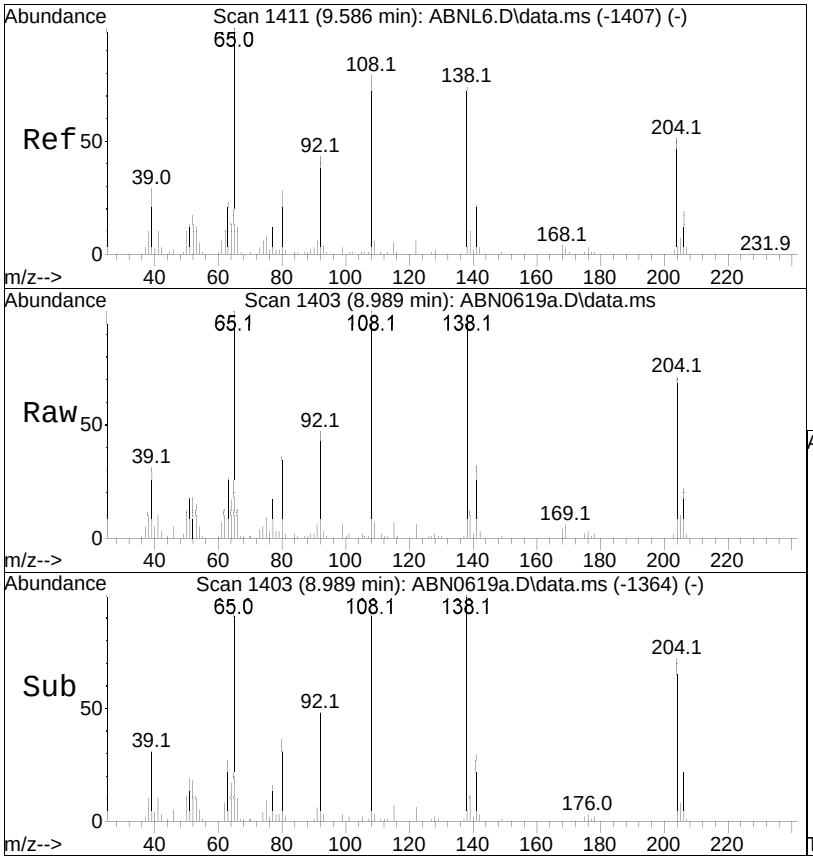


#73
4-Chlorophenyl phenyl ether
Concen: 4.77 ug/ml
RT: 8.983 min Scan# 1402
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:204 Resp: 114649

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	53.3	53.6	80.4#

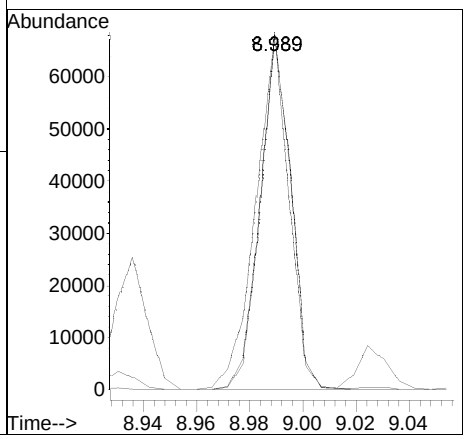


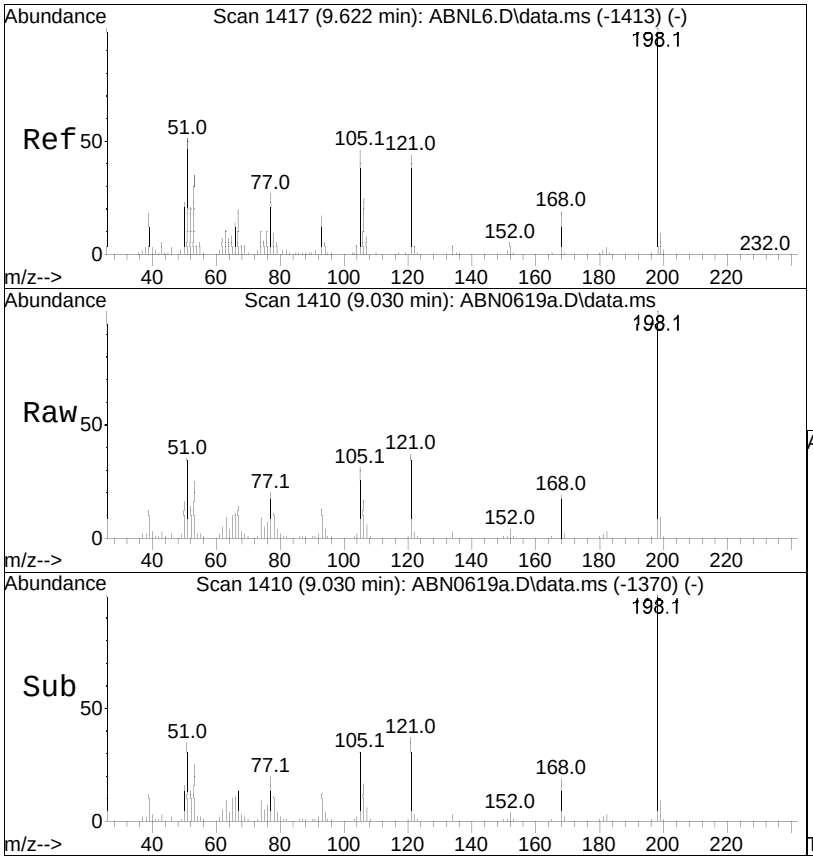


#74
4-Nitroaniline
Concen: 5.59 ug/ml
RT: 8.989 min Scan# 1403
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:138 Resp: 53737

Ion	Ratio	Lower	Upper
138	100		
108	101.3	52.1	78.1#
65	109.3	115.0	172.6#

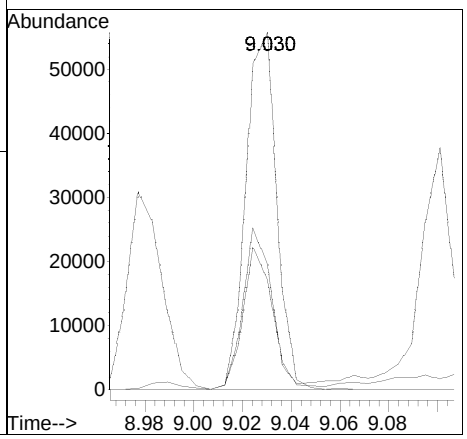


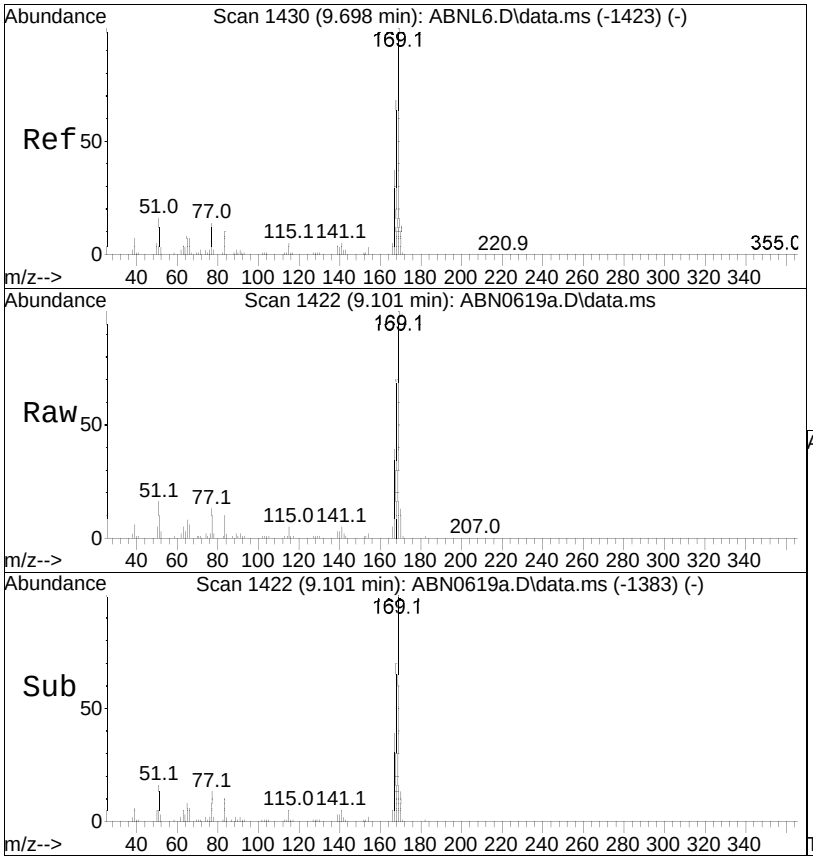


#75
4,6-Dinitro-o-cresol
Concen: 6.51 ug/ml
RT: 9.030 min Scan# 1410
Delta R.T. -0.012 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:198 Resp: 48962

Ion	Ratio	Lower	Upper
198	100		
51	43.1	76.0	114.0#
105	38.6	45.6	68.4#

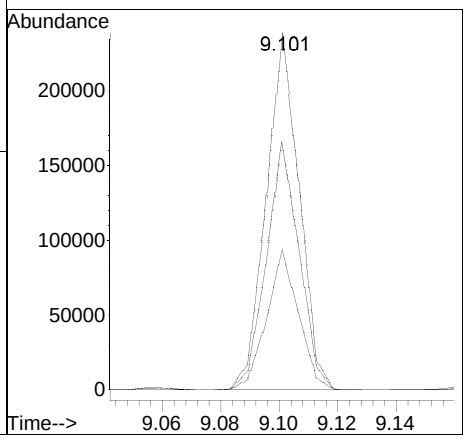


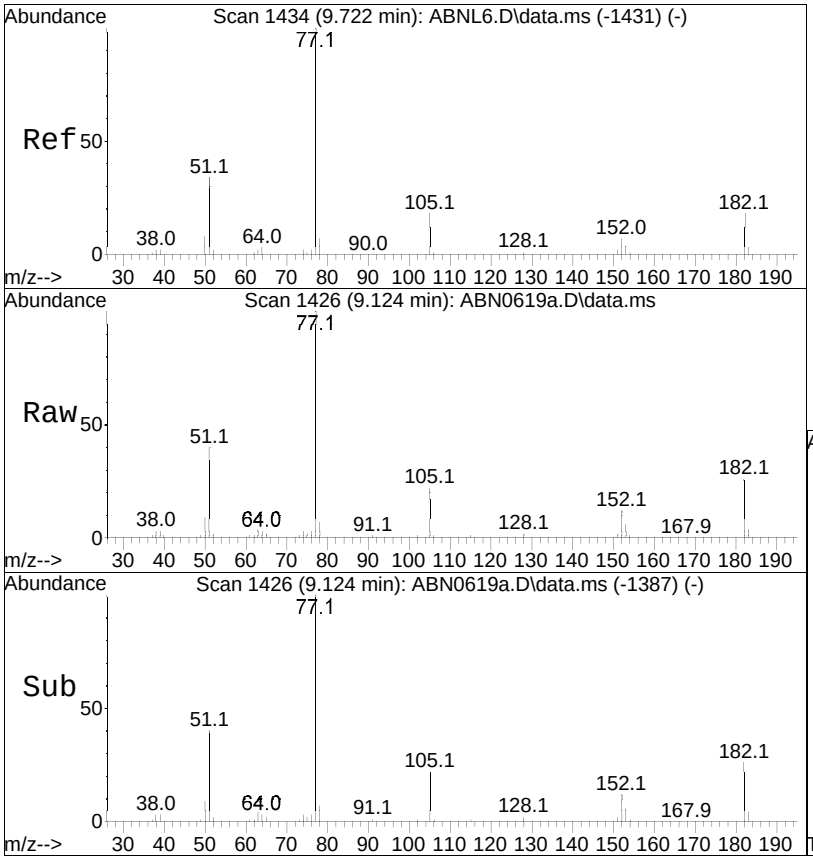


#76
NDPA/DPA
Concen: 4.94 ug/ml
RT: 9.101 min Scan# 1422
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:169 Resp: 185782

Ion	Ratio	Lower	Upper
169	100		
168	69.4	54.0	81.0
167	38.2	28.6	42.8

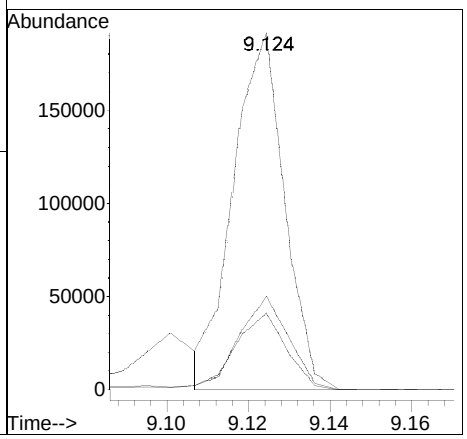


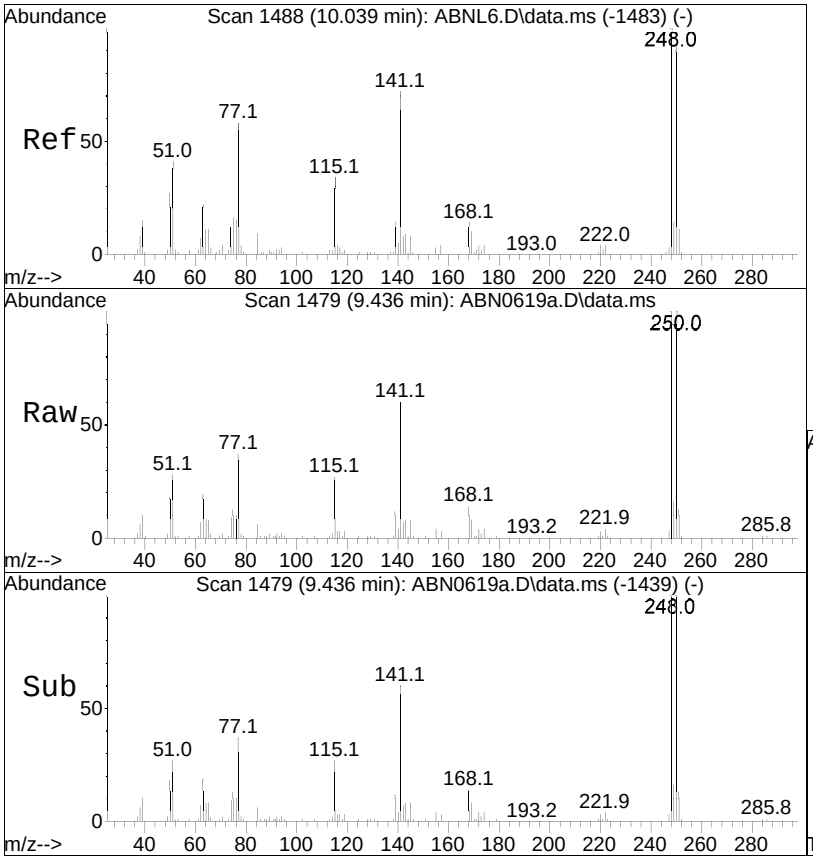


#77
Azobenzene
Concen: 3.44 ug/ml M6
RT: 9.124 min Scan# 1426
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion: 77 Resp: 165126

Ion	Ratio	Lower	Upper
77	100		
182	28.4	17.4	26.2#
105	24.4	15.4	23.2#

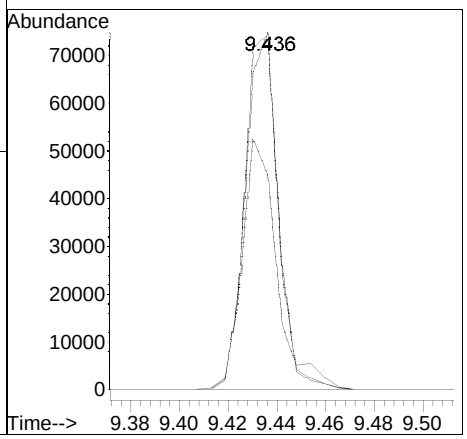


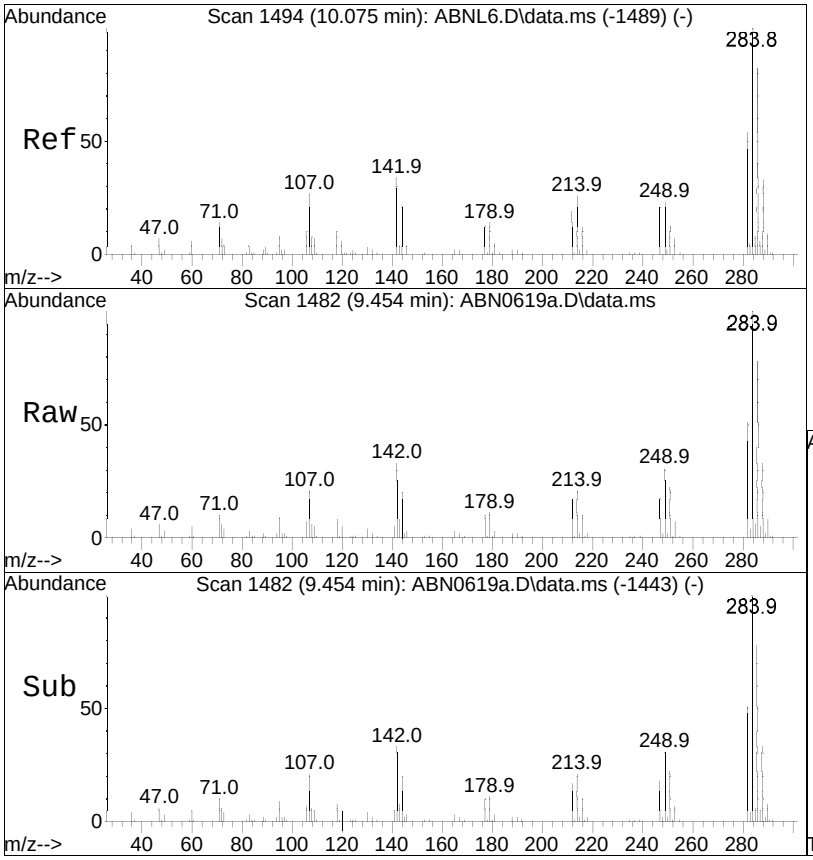


#79
4-Bromophenyl phenyl ether
Concen: 4.83 ug/ml
RT: 9.436 min Scan# 1479
Delta R.T. -0.012 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:248 Resp: 69202

Ion	Ratio	Lower	Upper
248	100		
141	74.7	76.6	114.8#
250	101.5	77.3	115.9

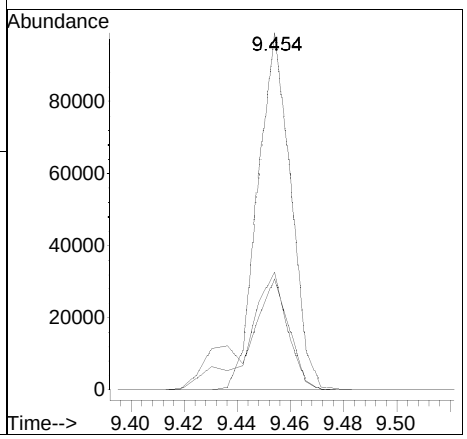


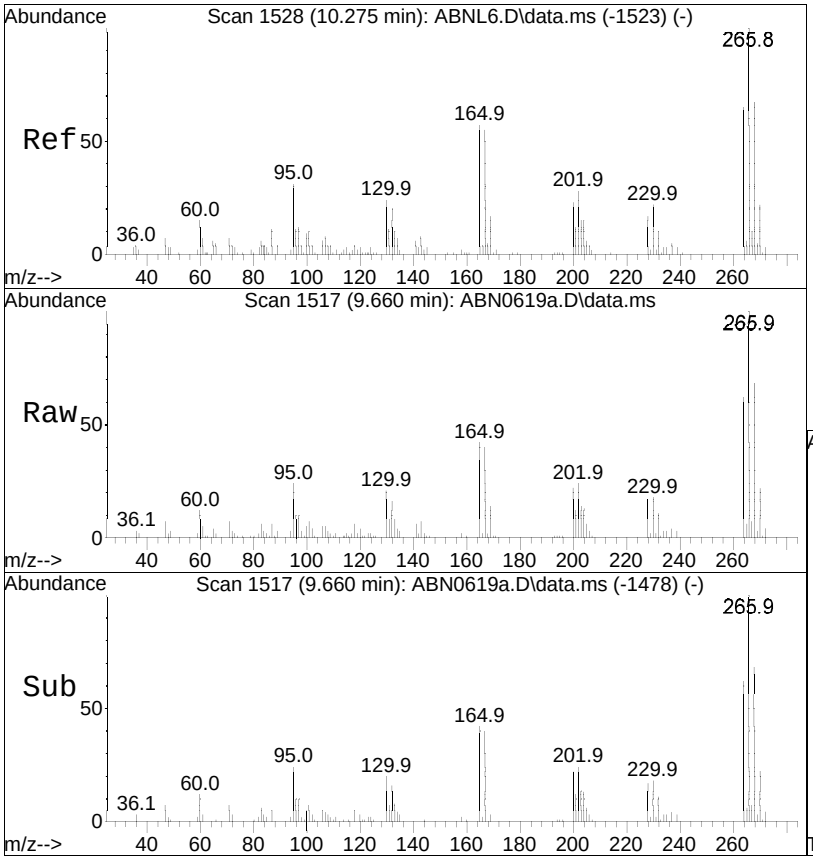


#80
Hexachlorobenzene
Concen: 5.16 ug/ml
RT: 9.454 min Scan# 1482
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:284 Resp: 85550

Ion	Ratio	Lower	Upper
284	100		
142	39.6	41.9	62.9#
249	43.5	24.1	36.1#

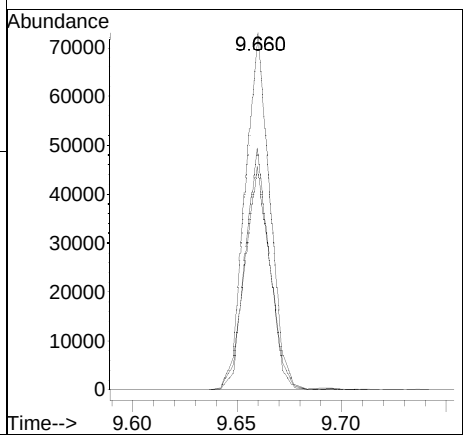


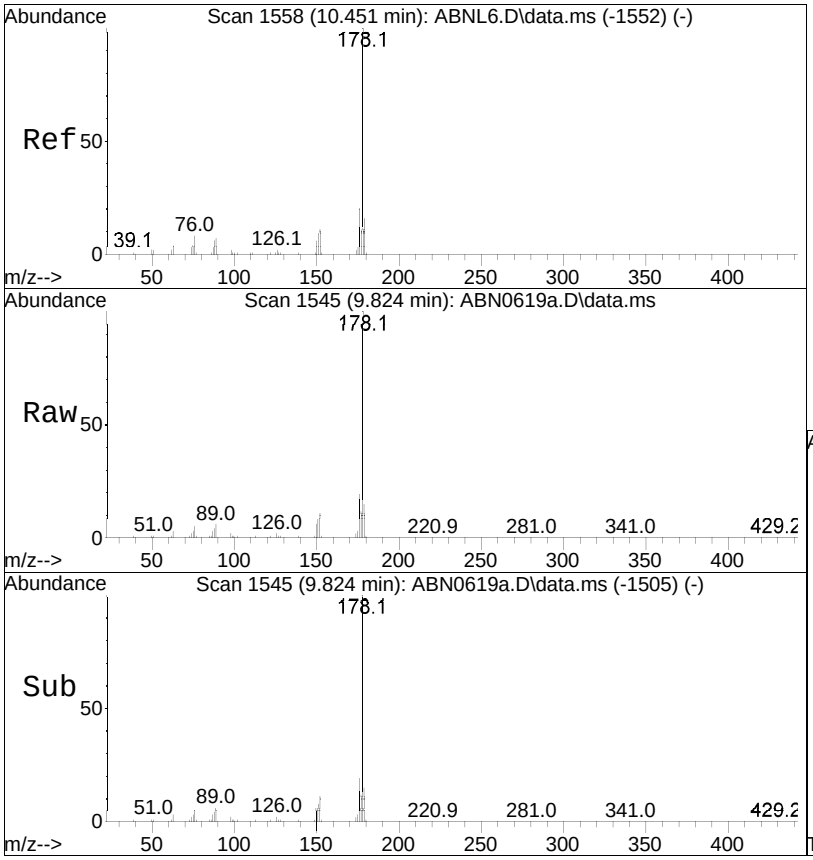


#81
Pentachlorophenol
Concen: 6.21 ug/ml
RT: 9.660 min Scan# 1517
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:266 Resp: 60033

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.7	74.5
268	66.5	50.5	75.7

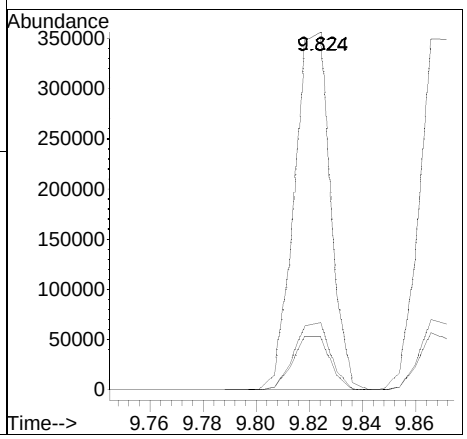


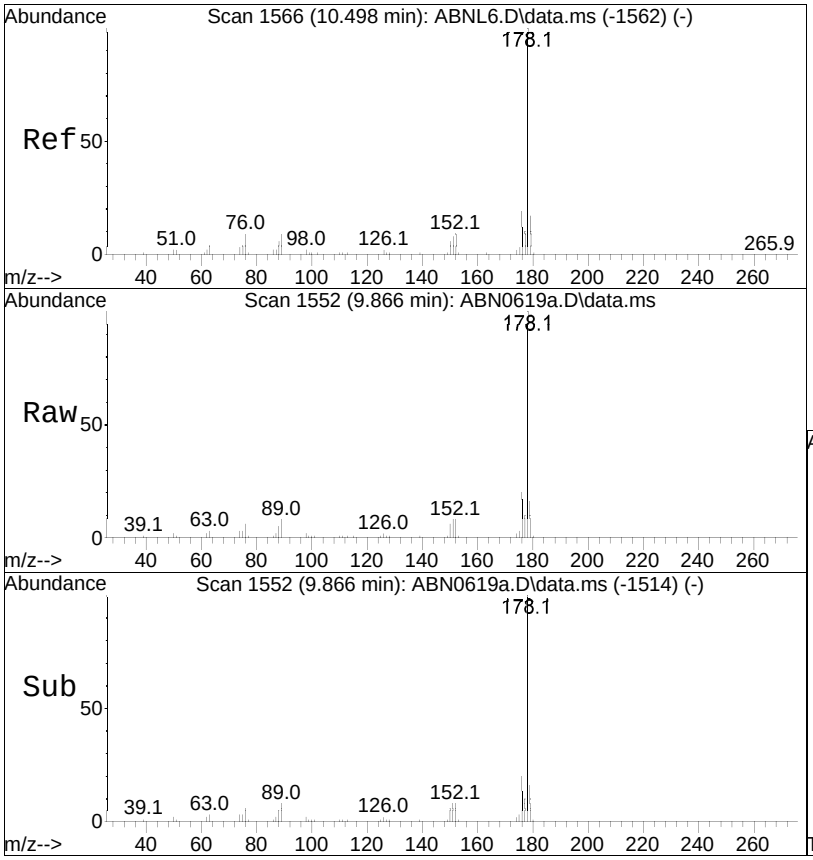


#88
Phenanthrene
Concen: 4.80 ug/ml
RT: 9.824 min Scan# 1545
Delta R.T. -0.012 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:178 Resp: 335810

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	18.8	15.4	23.2

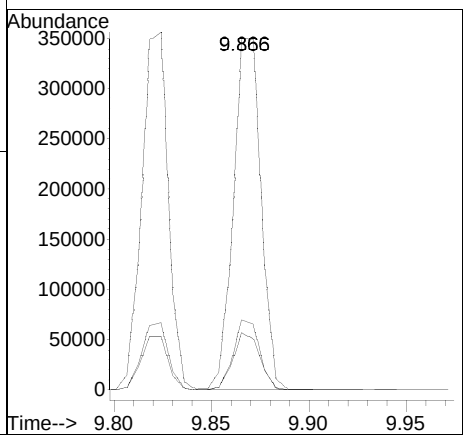


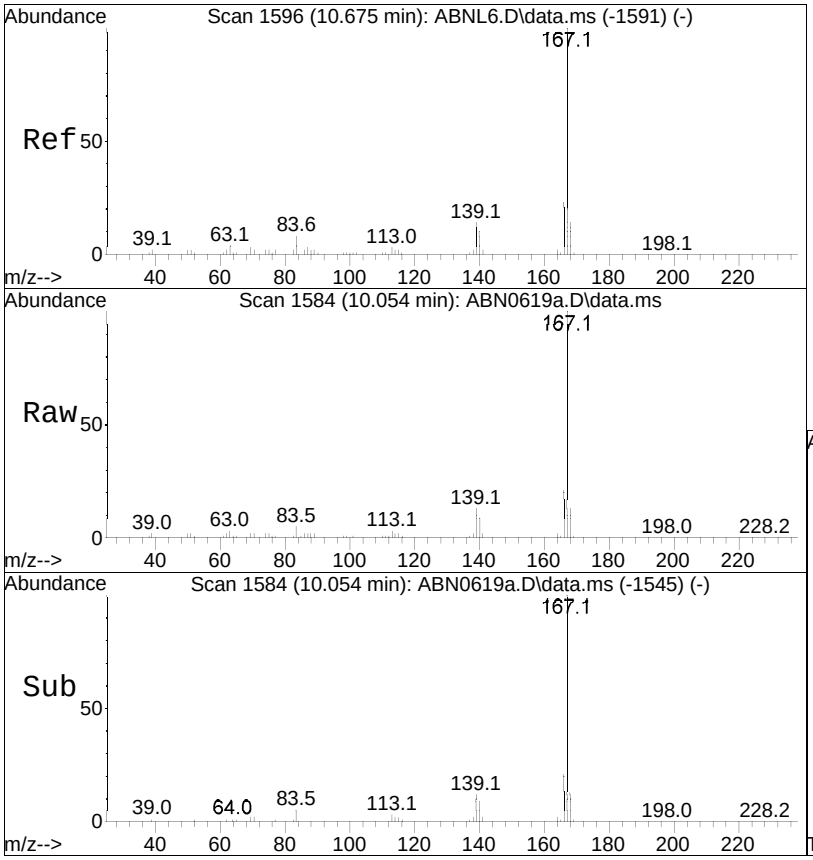


#89
Anthracene
Concen: 4.98 ug/ml
RT: 9.866 min Scan# 1552
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:178 Resp: 344583

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.0	18.0
176	18.9	14.6	22.0

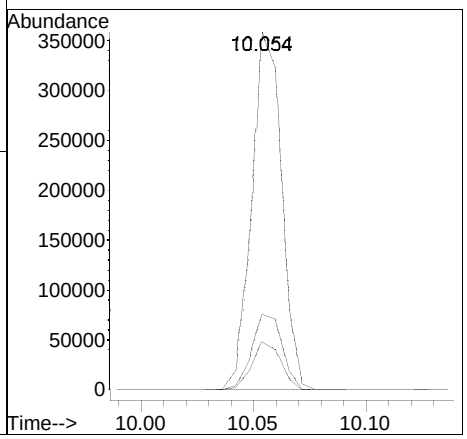


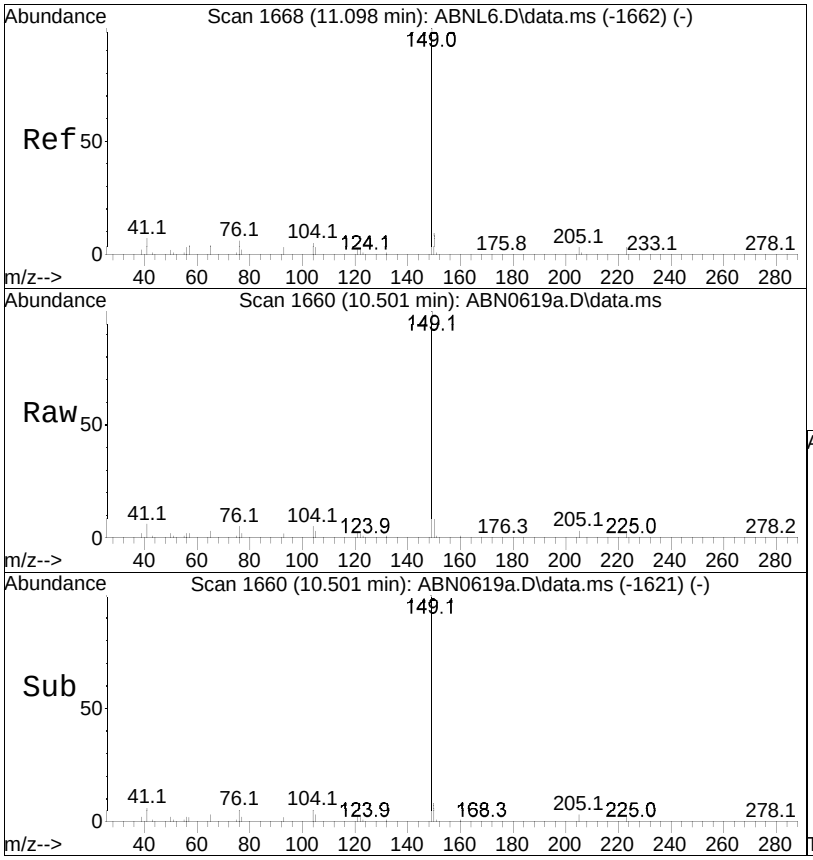


#90
Carbazole
Concen: 5.18 ug/ml
RT: 10.054 min Scan# 1584
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:167 Resp: 327673

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.7	17.4	26.0

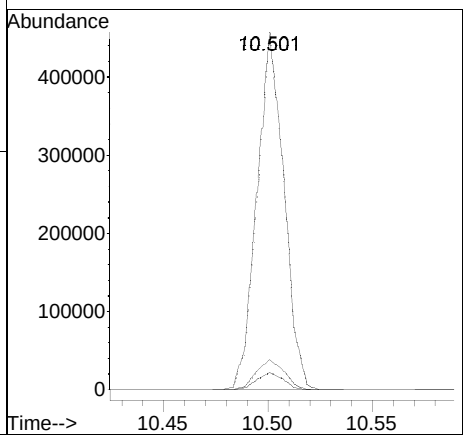


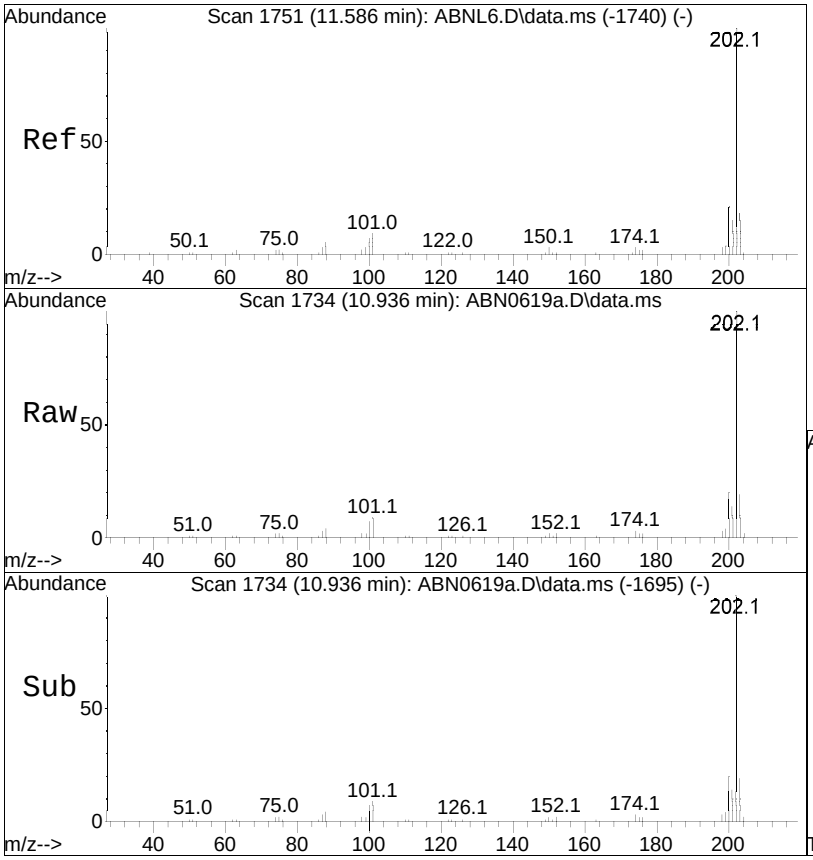


#91
Di-n-butylphthalate
Concen: 5.23 ug/ml
RT: 10.501 min Scan# 1660
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:149 Resp: 403139

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	4.9	4.5	6.7

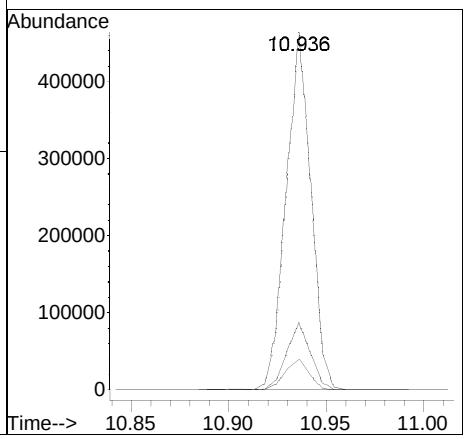


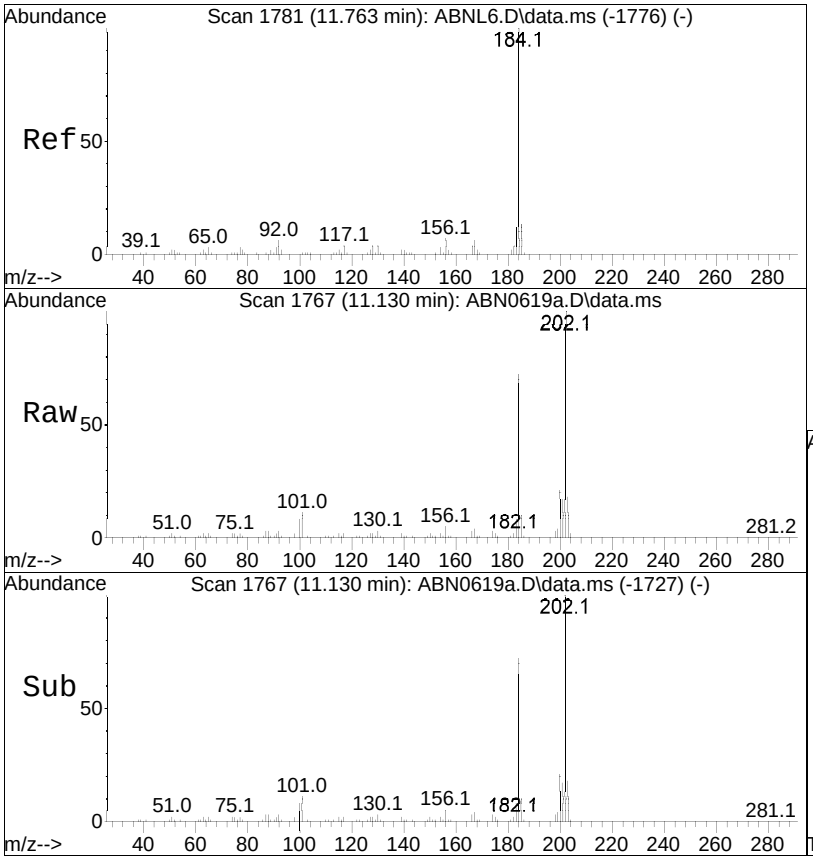


#92
Fluoranthene
Concen: 5.05 ug/ml
RT: 10.936 min Scan# 1734
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:202 Resp: 404436

Ion	Ratio	Lower	Upper
202	100		
101	8.4	13.5	20.3#
203	18.6	13.6	20.4

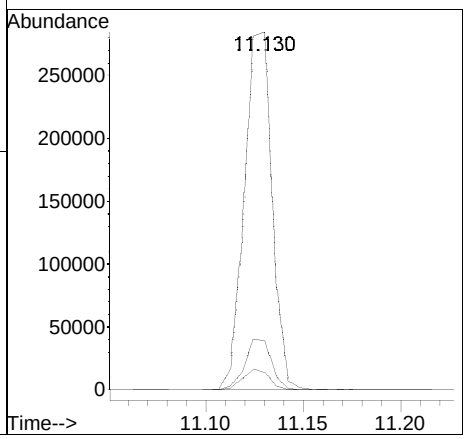


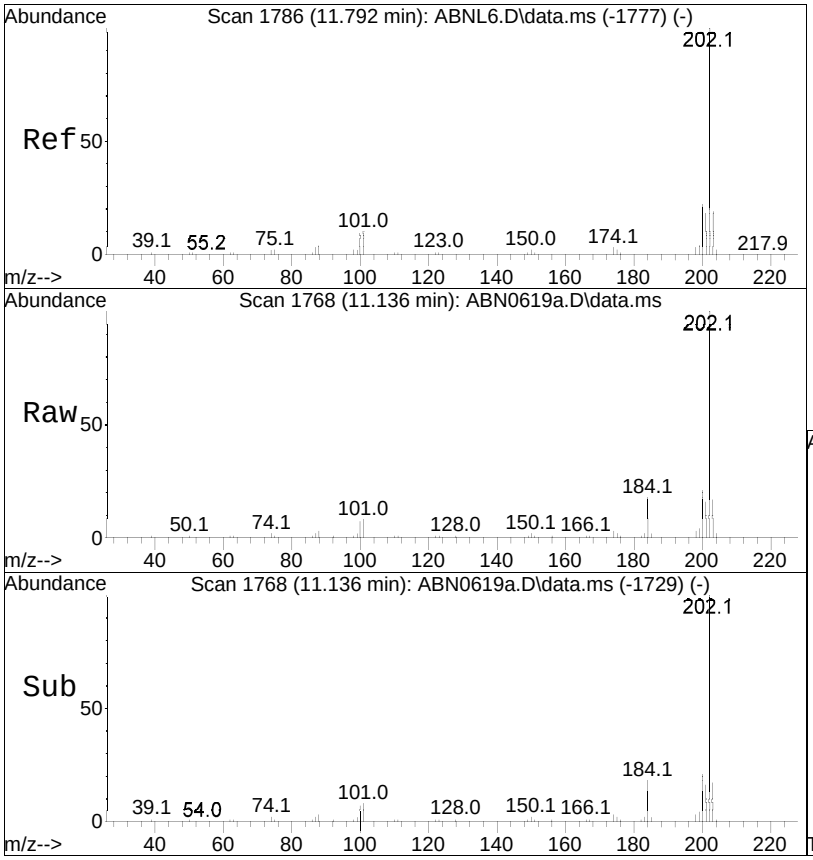


#93
Benzidine
Concen: 6.08 ug/ml
RT: 11.130 min Scan# 1767
Delta R.T. -0.012 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:184 Resp: 279192

Ion	Ratio	Lower	Upper
184	100		
92	5.6	9.1	13.7#
185	13.8	11.1	16.7

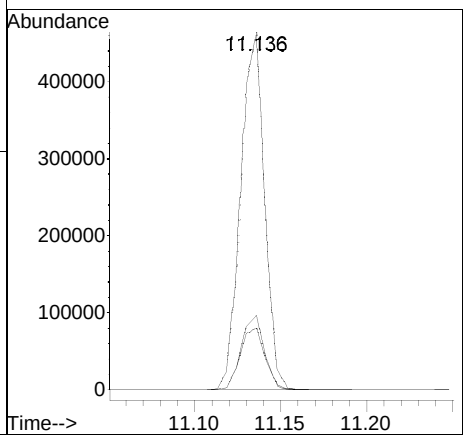


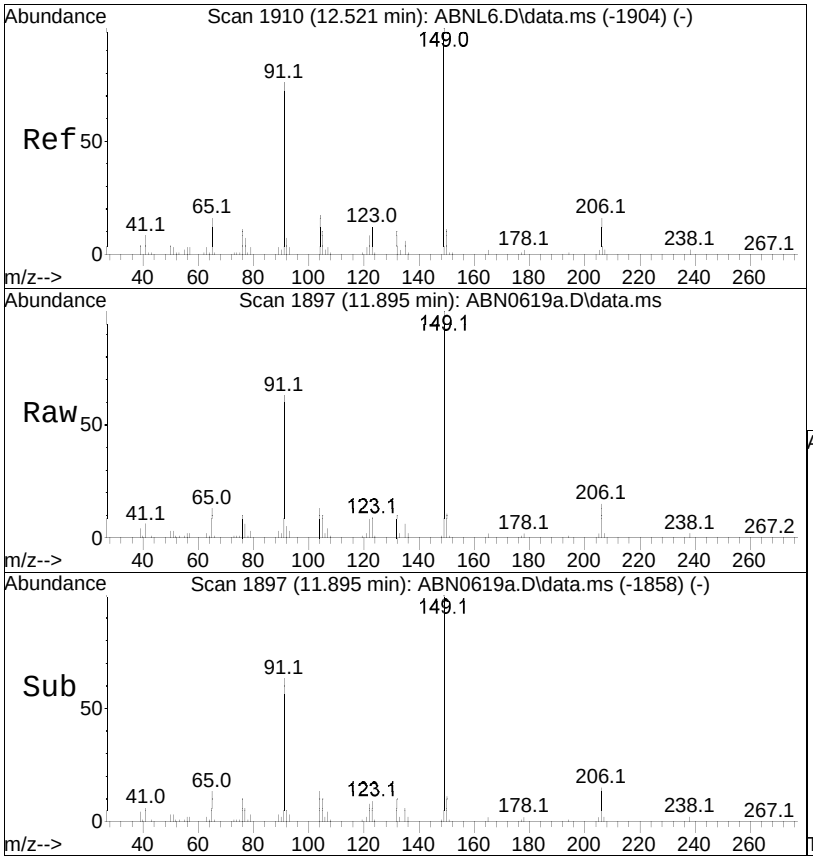


#94
Pyrene
Concen: 5.20 ug/ml
RT: 11.136 min Scan# 1768
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:202 Resp: 439552

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	18.3	14.2	21.4

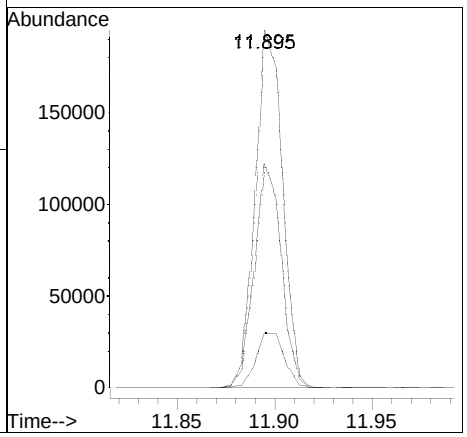


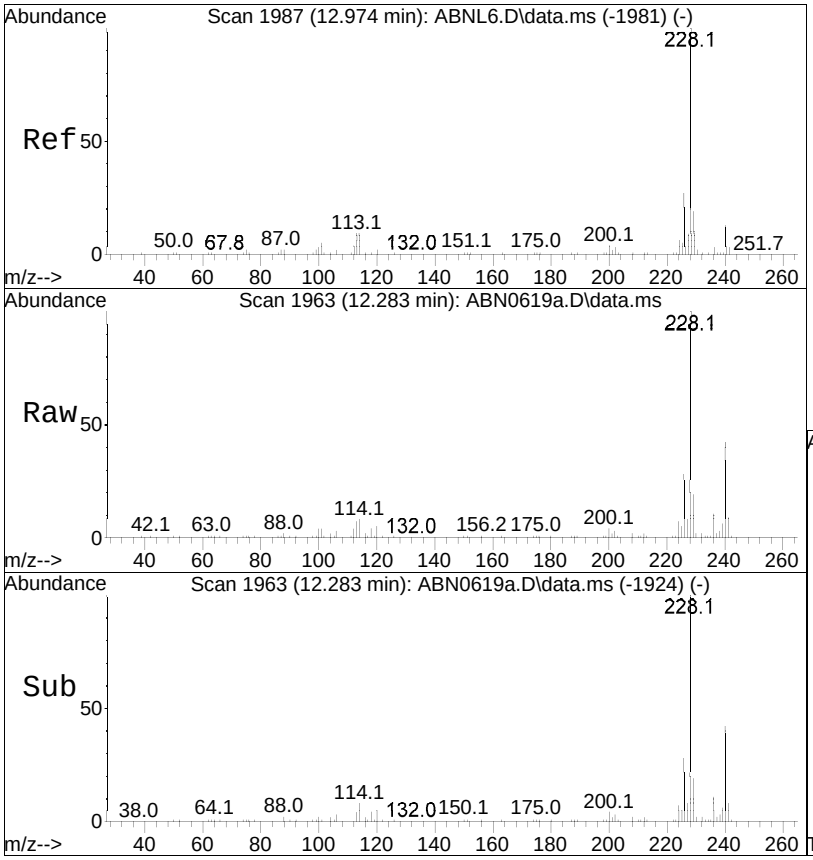


#96
Butyl benzyl phthalate
Concen: 5.75 ug/ml
RT: 11.895 min Scan# 1897
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:149 Resp: 188430

Ion	Ratio	Lower	Upper
149	100		
91	61.9	63.3	94.9#
206	16.2	13.9	20.9

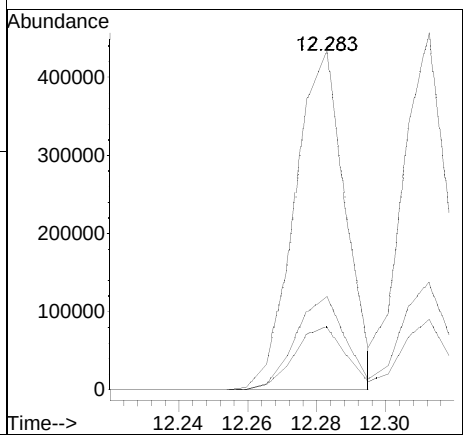


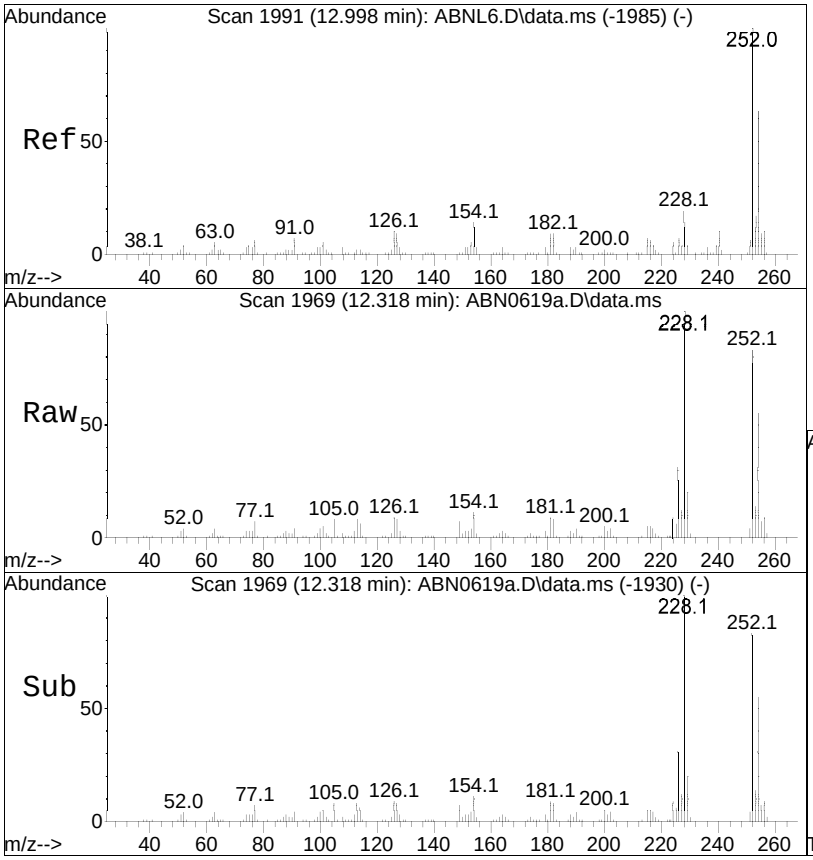


#104
Benzo(a)anthracene
Concen: 5.13 ug/ml M3
RT: 12.283 min Scan# 1963
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:228 Resp: 444035

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	18.5	15.6	23.4

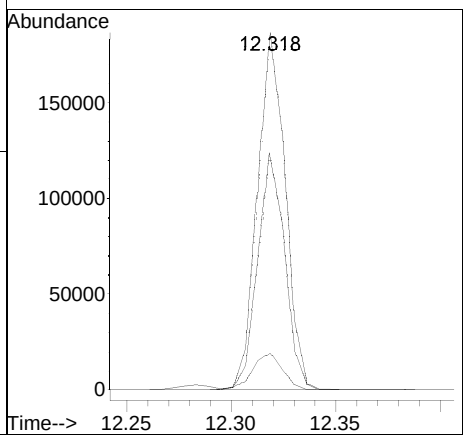


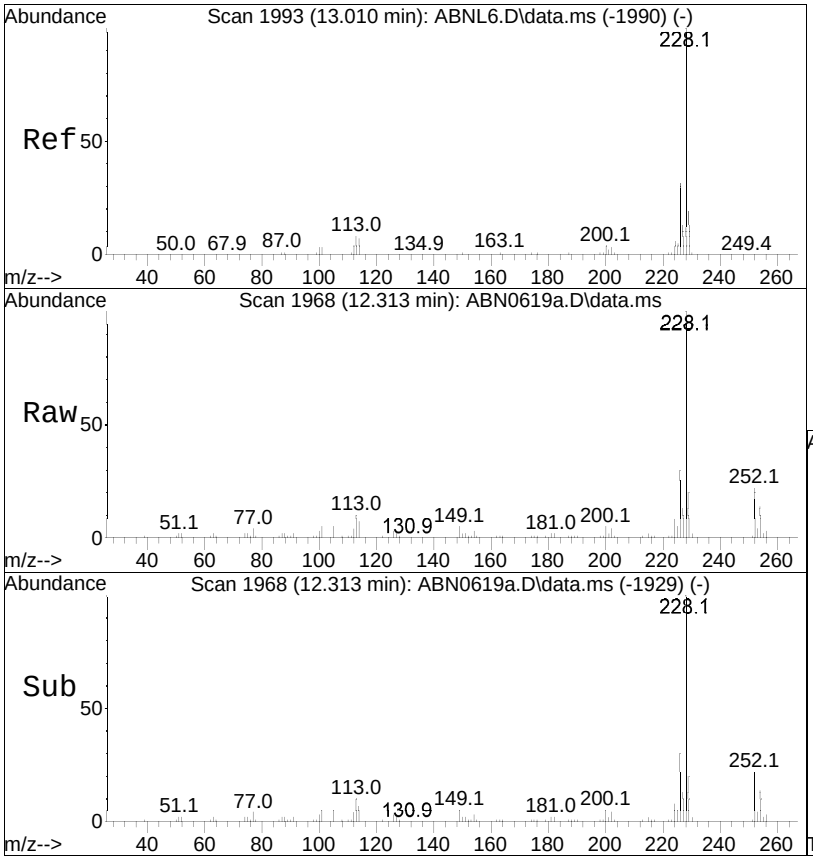


#105
3,3'-Dichlorobenzidine
Concen: 5.75 ug/ml
RT: 12.318 min Scan# 1969
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:252 Resp: 171536

Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	64.5	51.2	76.8

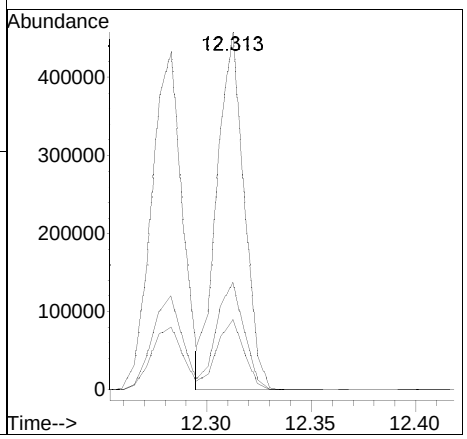


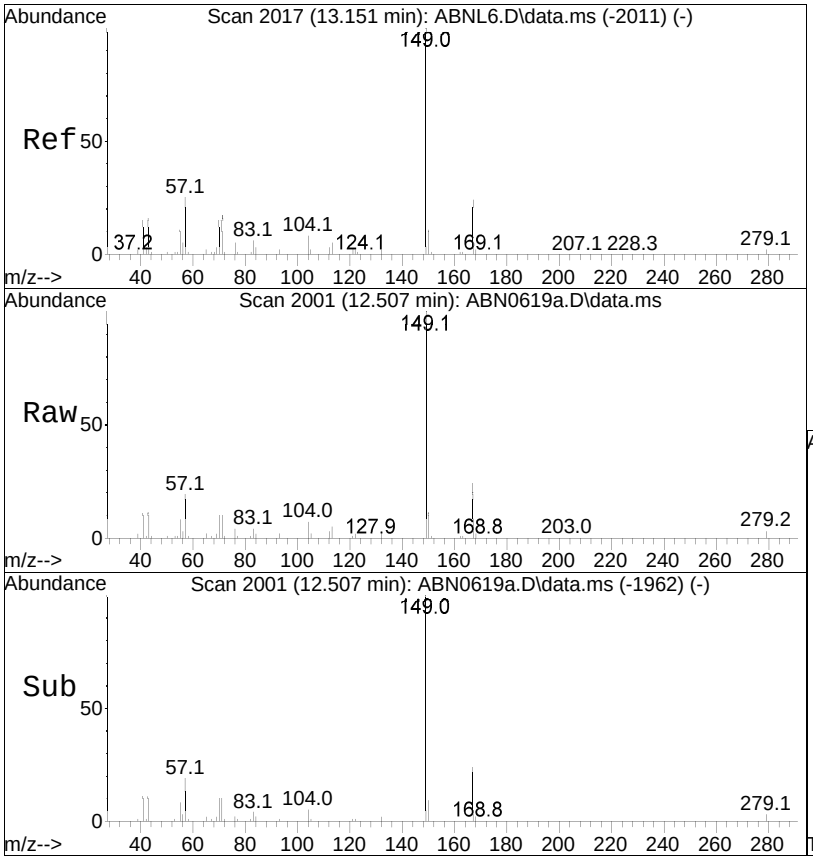


#106
Chrysene
Concen: 4.82 ug/ml
RT: 12.313 min Scan# 1968
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:228 Resp: 411788

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.0	36.0
229	19.9	15.8	23.8

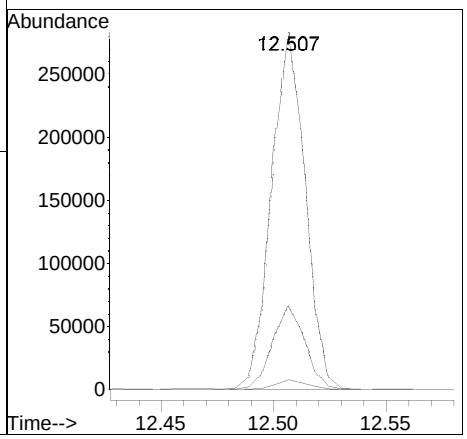


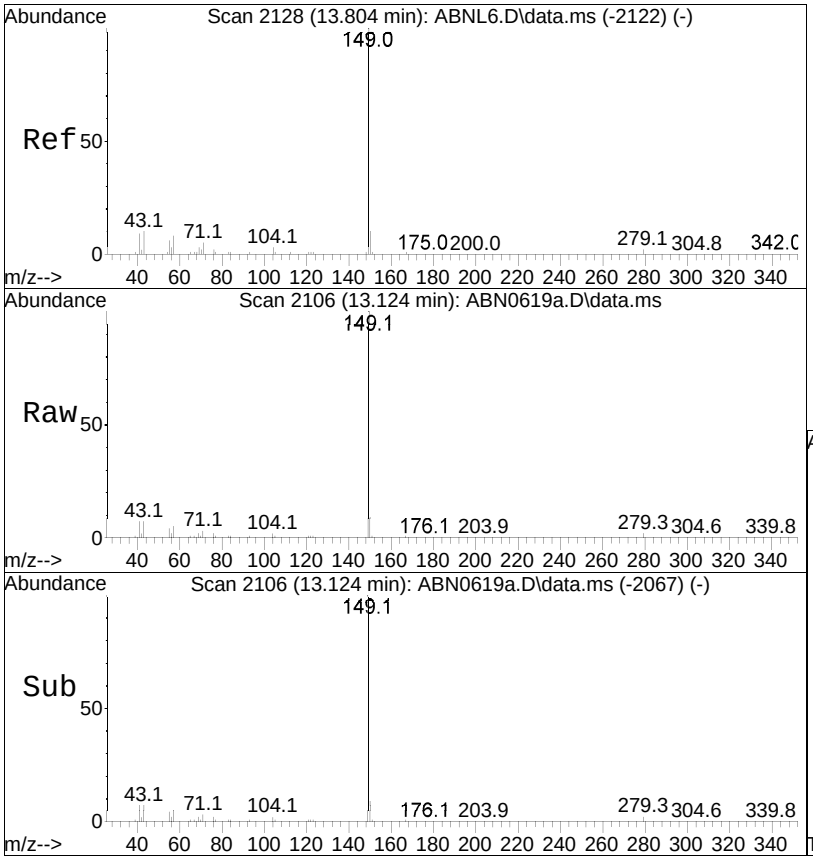


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.70 ug/ml
RT: 12.507 min Scan# 2001
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:149 Resp: 292505

Ion	Ratio	Lower	Upper
149	100		
167	22.8	22.1	33.1
279	2.4	3.0	4.4#

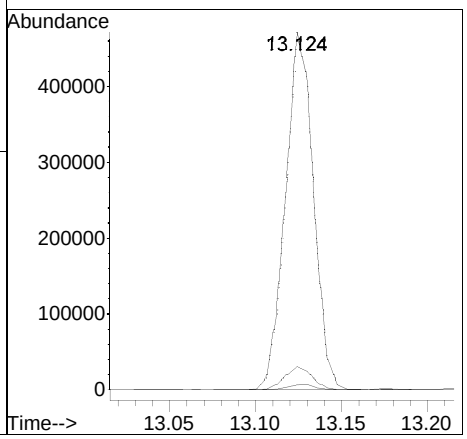


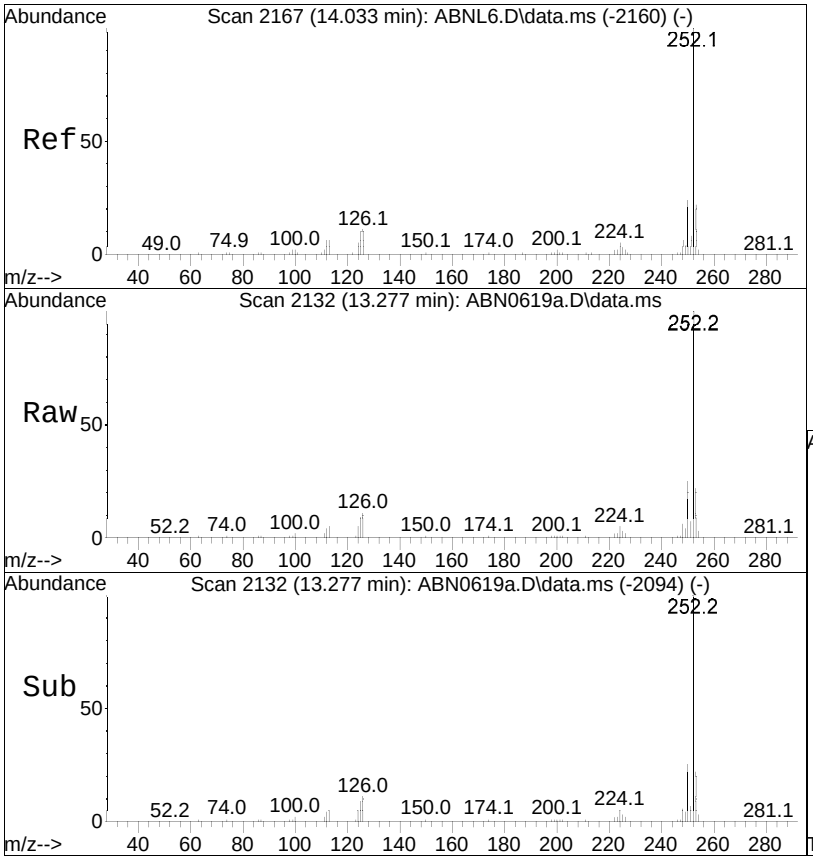


#108
Di-n-octylphthalate
Concen: 6.25 ug/ml
RT: 13.124 min Scan# 2106
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:149 Resp: 525525

Ion	Ratio	Lower	Upper
149	100		
43	6.6	18.8	28.2#
167	1.4	1.3	1.9

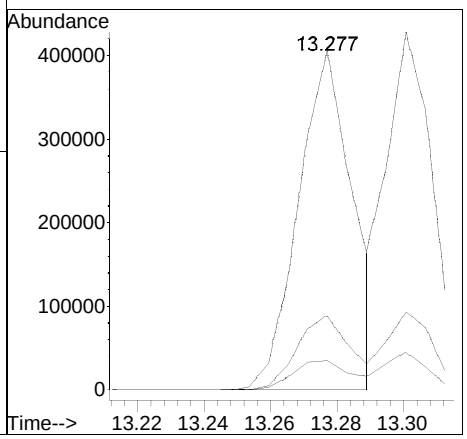


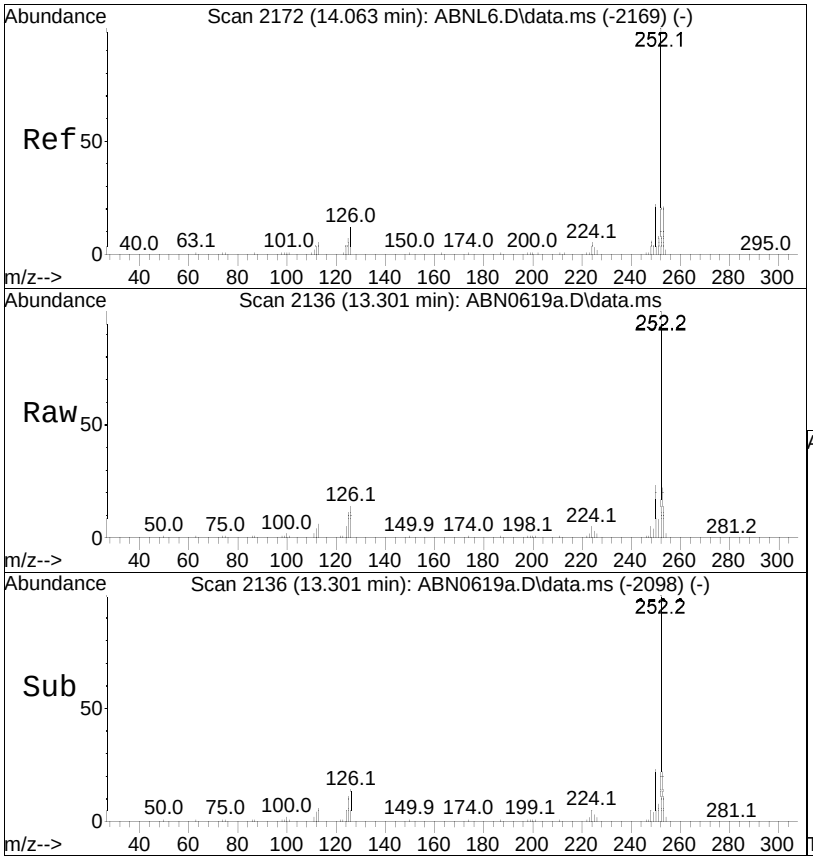


#109
Benzo(b)fluoranthene
Concen: 5.85 ug/ml M3
RT: 13.277 min Scan# 2132
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:252 Resp: 462827

Ion	Ratio	Lower	Upper
252	100		
125	8.6	13.3	19.9#
253	19.2	17.1	25.7

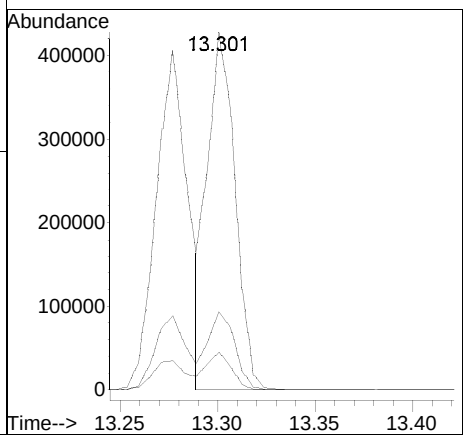


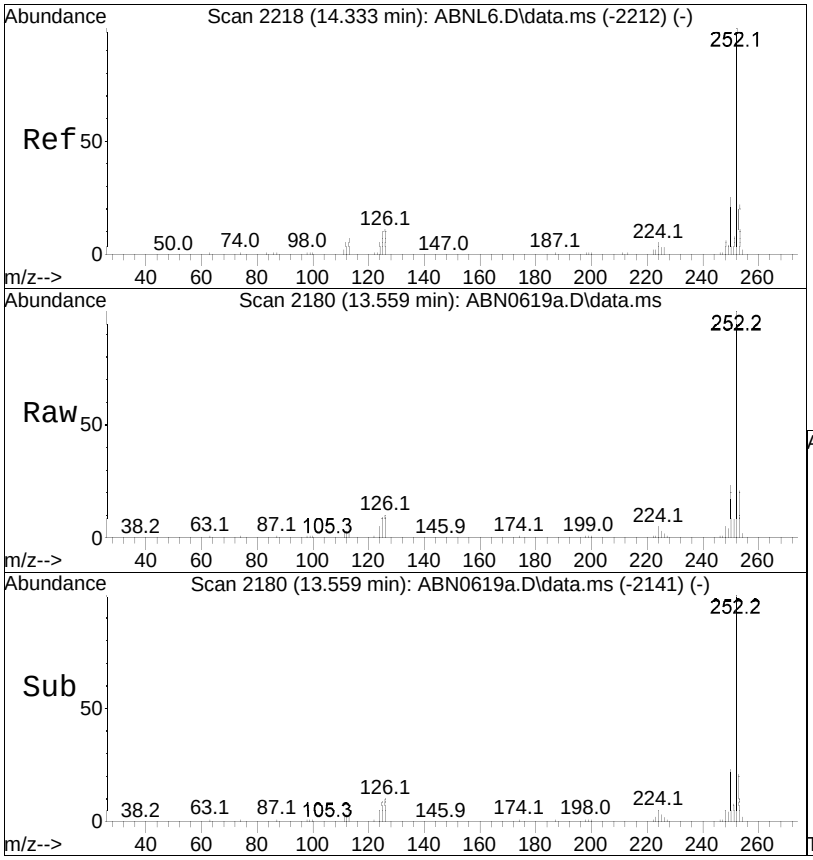


#110
Benzo(k)fluoranthene
Concen: 5.36 ug/ml
RT: 13.301 min Scan# 2136
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:252 Resp: 413635

Ion	Ratio	Lower	Upper
252	100		
125	9.6	13.0	19.6#
253	21.5	16.8	25.2

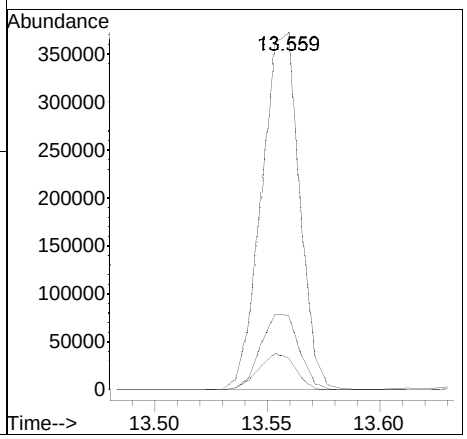


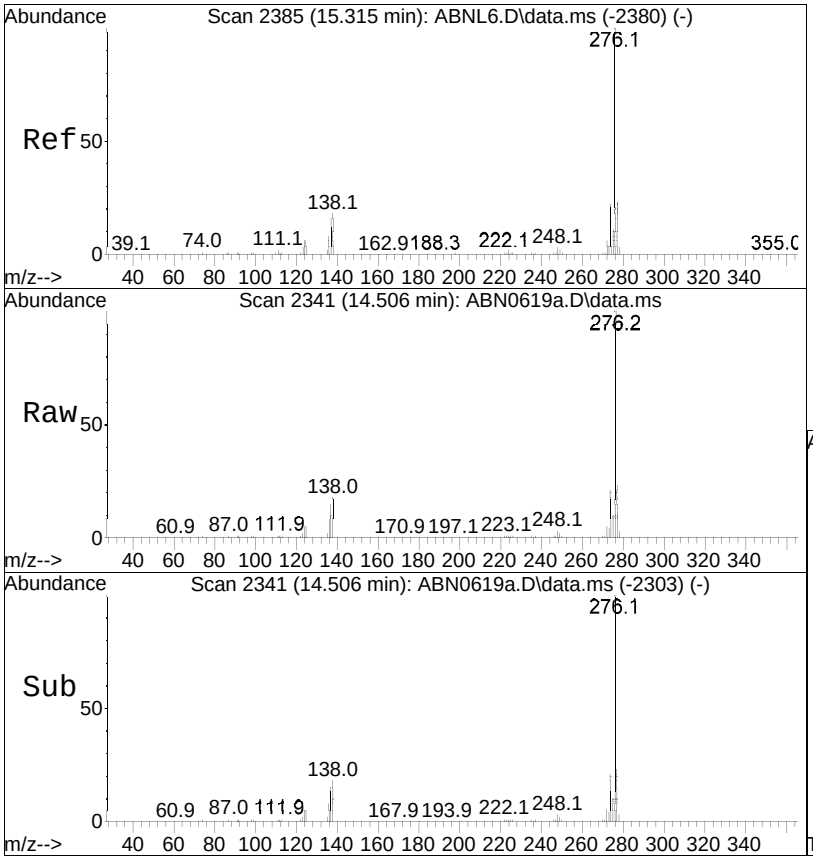


#111
Benzo(a)pyrene
Concen: 6.11 ug/ml
RT: 13.559 min Scan# 2180
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:252 Resp: 432411

Ion	Ratio	Lower	Upper
252	100		
125	10.1	14.2	21.2#
253	21.7	16.9	25.3

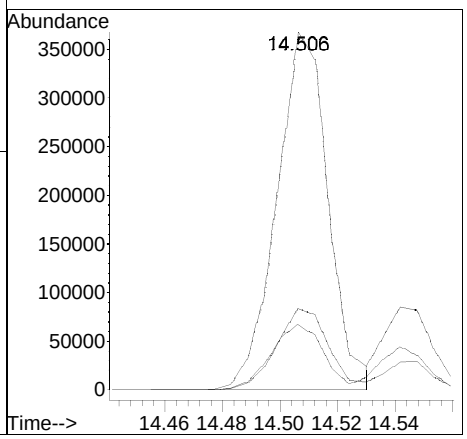


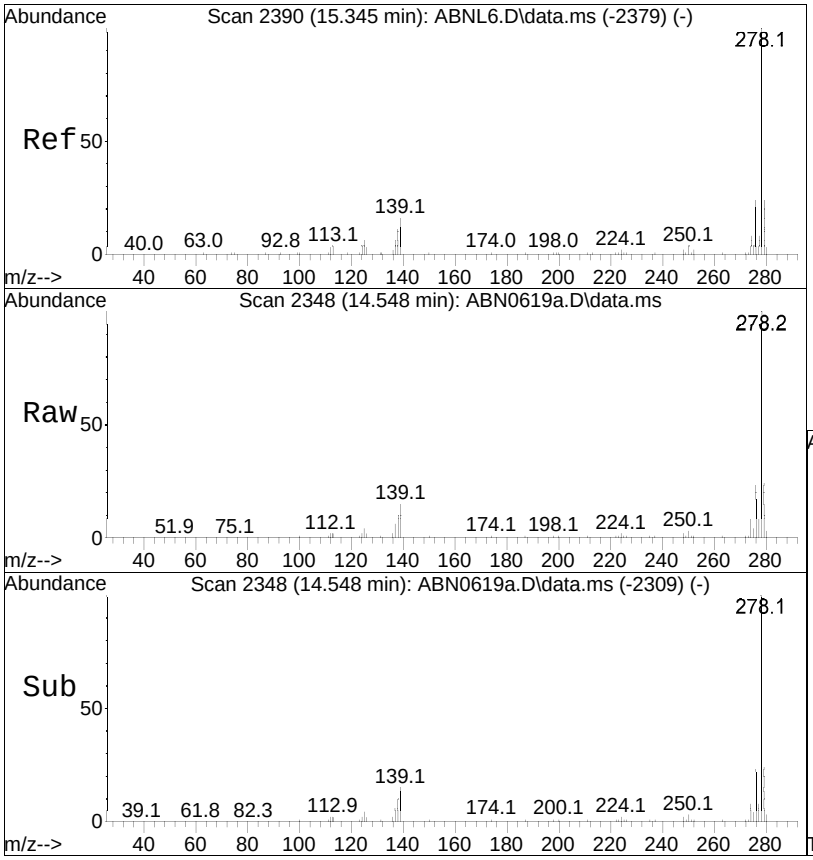


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.70 ug/mL M3
RT: 14.506 min Scan# 2341
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:276 Resp: 452832

Ion	Ratio	Lower	Upper
276	100		
138	11.3	25.1	37.7#
277	7.2	18.6	28.0#

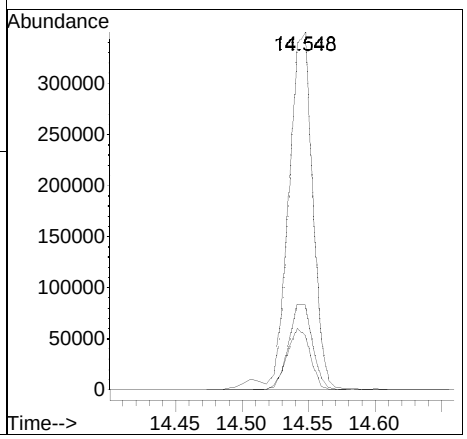


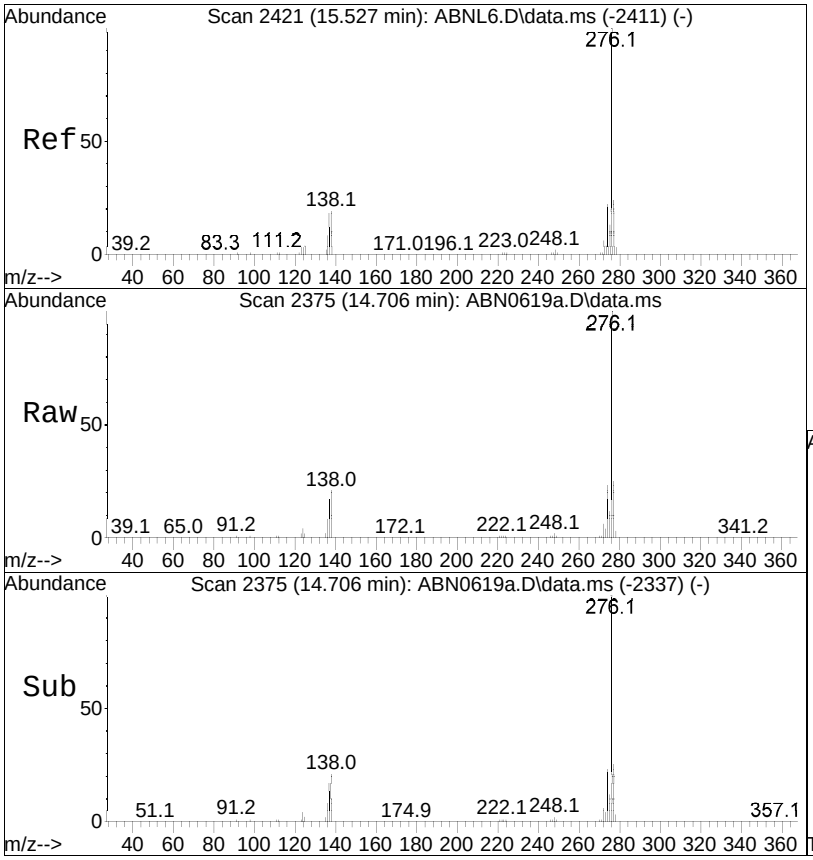


#114
Dibenzo(a,h)anthracene
Concen: 5.87 ug/ml
RT: 14.548 min Scan# 2348
Delta R.T. -0.018 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:278 Resp: 443887

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.7	18.3	27.5

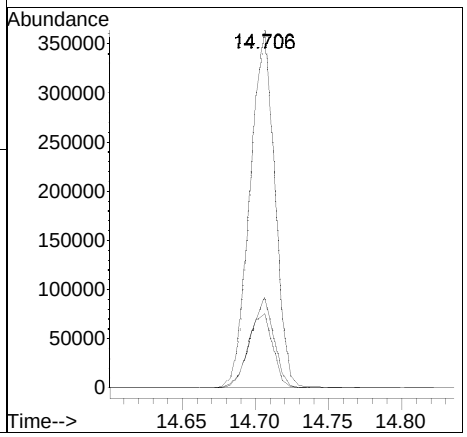




#115
Benzo(ghi)perylene
Concen: 5.72 ug/ml
RT: 14.706 min Scan# 2375
Delta R.T. -0.024 min
Lab File: ABN0619a.D
Acq: 19 Jun 2024 9:15 am

Tgt Ion:276 Resp: 426787

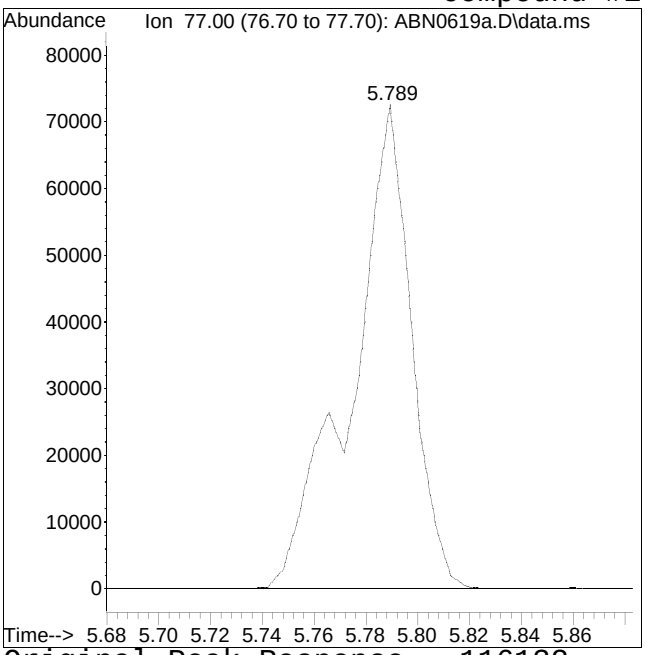
Ion	Ratio	Lower	Upper
276	100		
138	20.9	29.2	43.8#
277	24.1	18.8	28.2



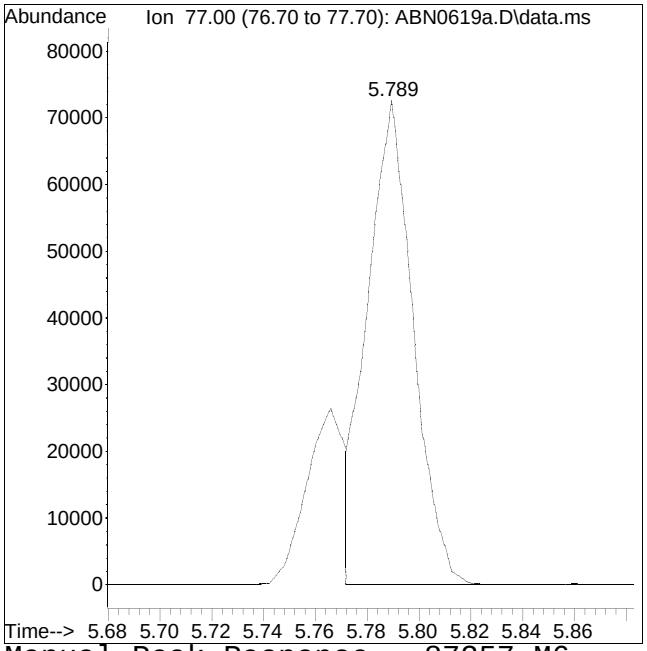
Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #20: Nitrobenzene



Original Peak Response = 116132



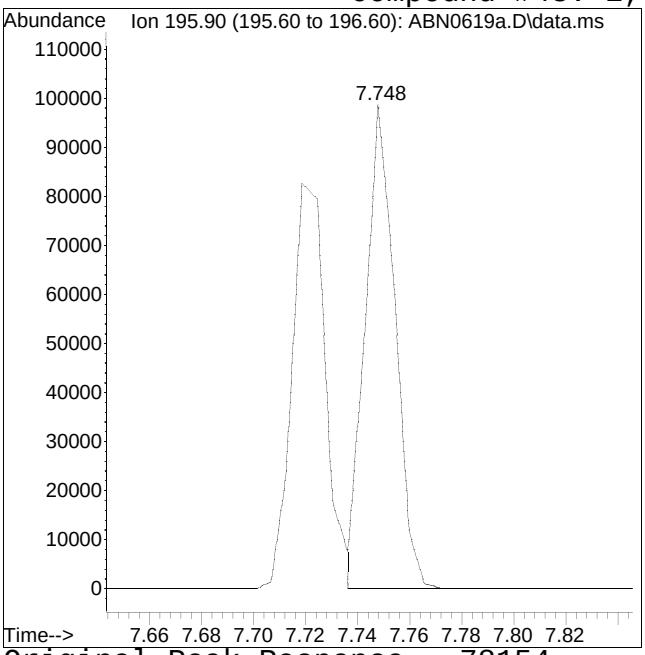
Manual Peak Response = 87257 M6

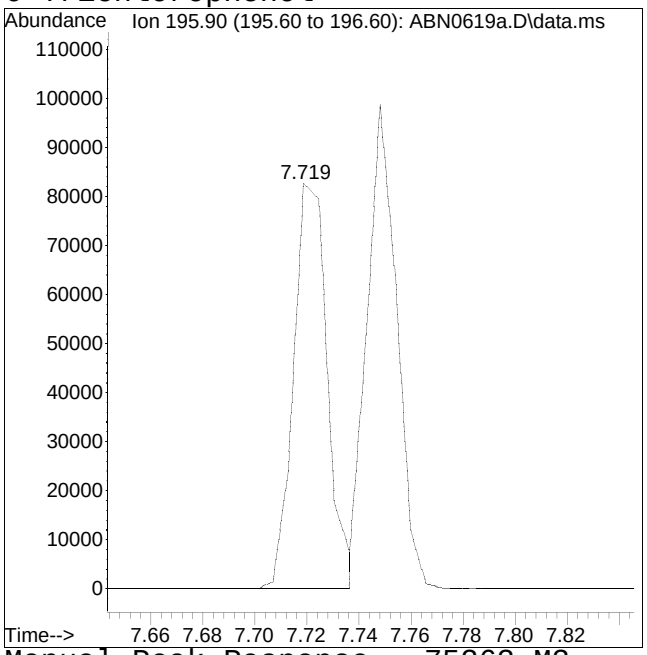
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #43: 2,4,6-Trichlorophenol





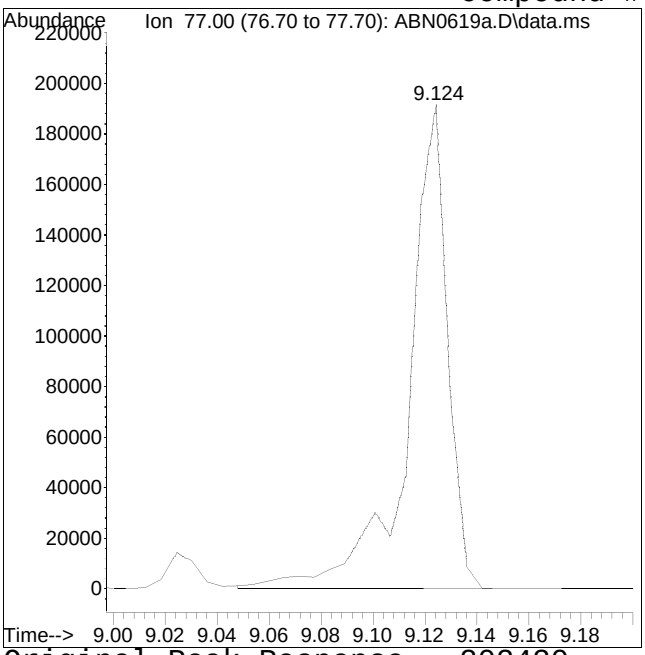
Original Peak Response = 78154 Manual Peak Response = 75263 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

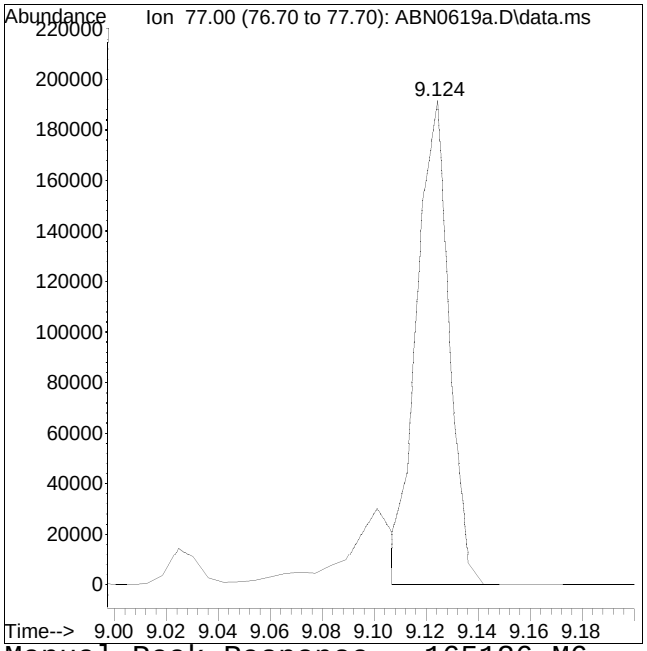
Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #77: Azobenzene



Original Peak Response = 202430



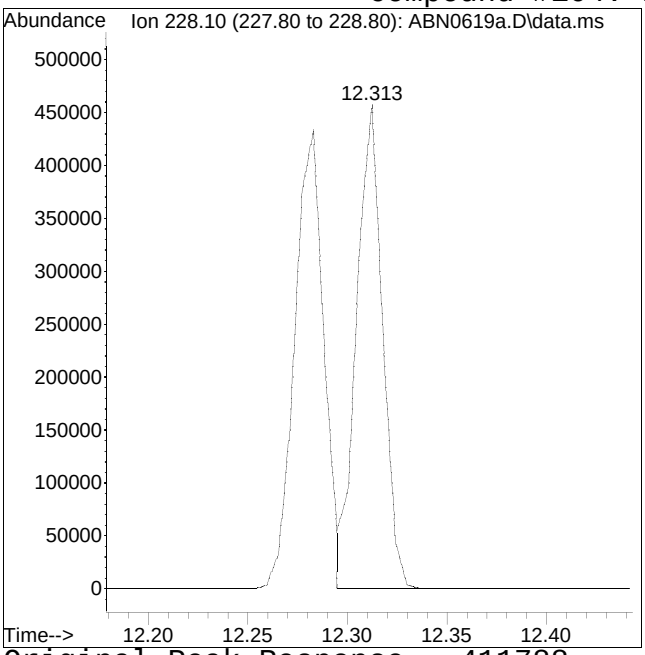
Manual Peak Response = 165126 M6

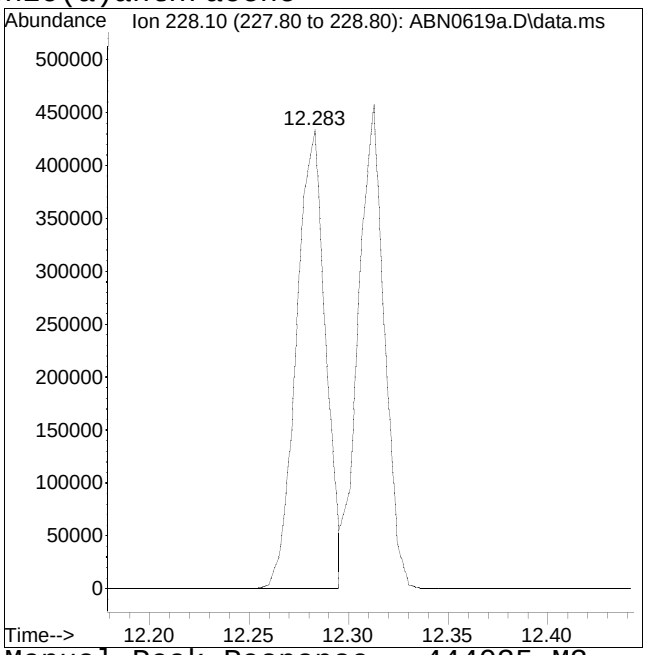
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #104: Benzo(a)anthracene





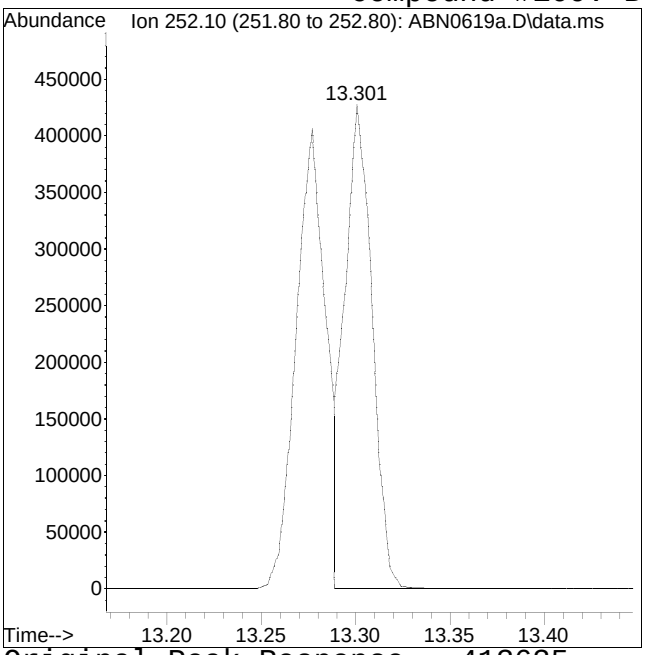
Original Peak Response = 411788 Manual Peak Response = 444035 M3

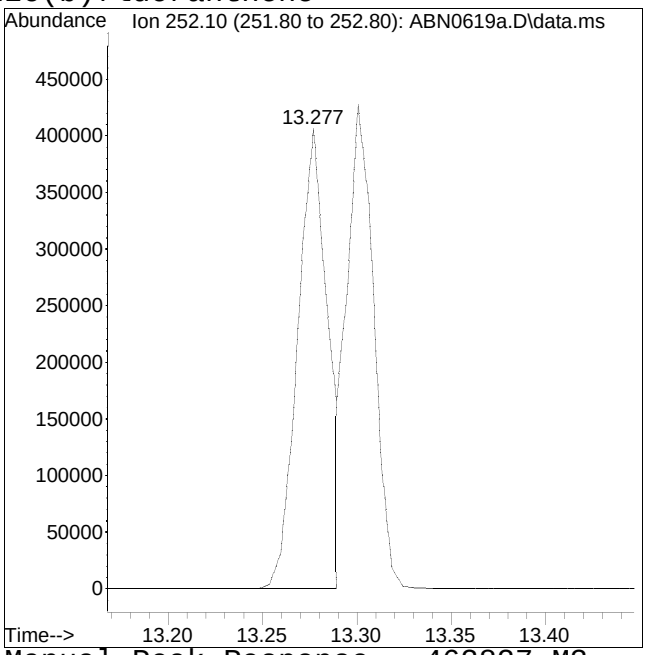
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #109: Benzo(b)fluoranthene





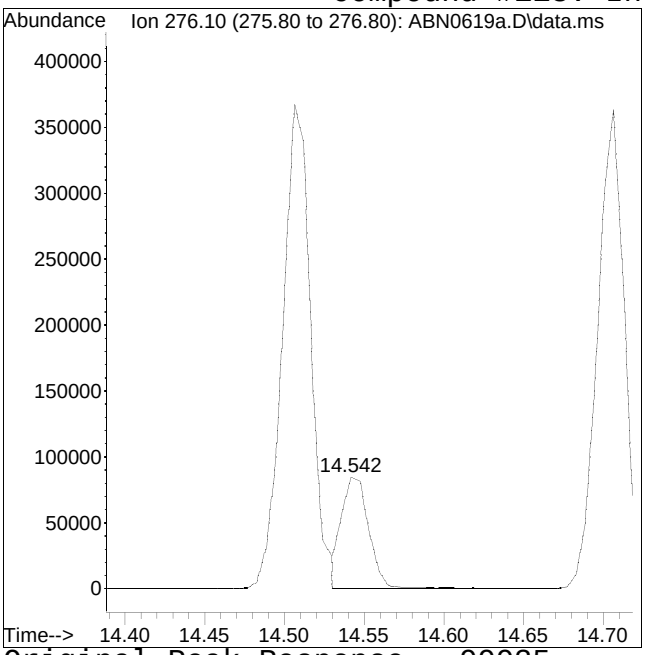
Original Peak Response = 413635 Manual Peak Response = 462827 M3

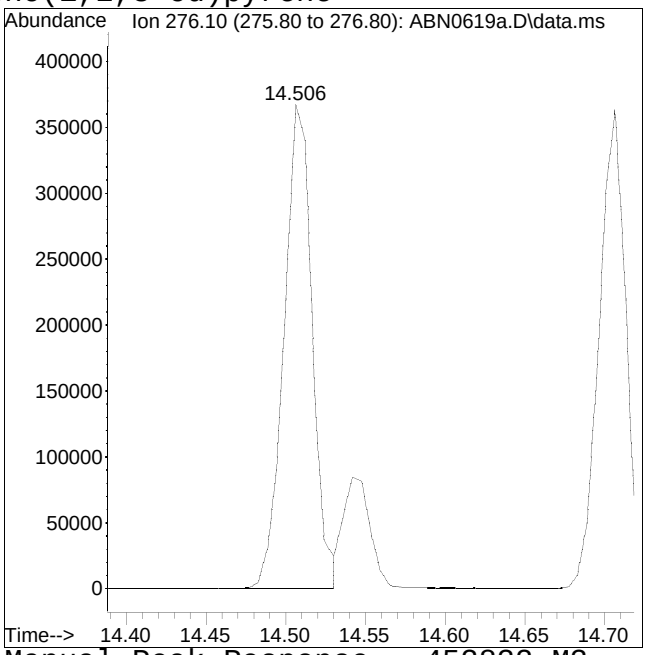
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : ABN0619a.D Operator : SV106:sz
Date Inj'd : 6/19/2024 9:15 am Instrument : SV 106
Sample : wg1936417-3,32,,ABN ICV 10Quant Date : 6/19/2024 9:35 am

Compound #113: Indeno(1,2,3-cd)pyrene





Original Peak Response = 99935 Manual Peak Response = 452832 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240619aRVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 9:39 am
Operator : SV106:sz
Sample : wg1936417-5,32,,ADP 10751 gmr0518B
Misc : wg1936417,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 10:14:45 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:15:15 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	104	0.00
33	T	n-Decane		1.537	0.919	40.2#	67	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	105	0.00
86	T	Atrazine		0.403	0.422	-4.7	113	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	98	0.00
100	T	n-Octadecane		0.440	0.285	35.2#	65	0.00
101	T	Parathion		0.121	0.122	-0.8	111	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	5.199	-4.0	123	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 9:39 am
Operator : SV106:sz
Sample : wg1936417-5,32,,ADP 10751 gmr0518B
Misc : wg1936417,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 10:14:45 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:15:15 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.860	152	62958	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	8.407	164	148414	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.801	188	314363	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.801	57	72334	2.989	ug/ml#	41
86) Atrazine	9.660	200	78361	5.242	ug/ml	93
100) n-Octadecane	9.889	57	111985	3.240	ug/ml#	1
101) Parathion	10.630	109	48052	5.072	ug/ml	96
102) 3,3'-Dimethylbenzidine	11.830	212	326235	5.199	ug/ml	99

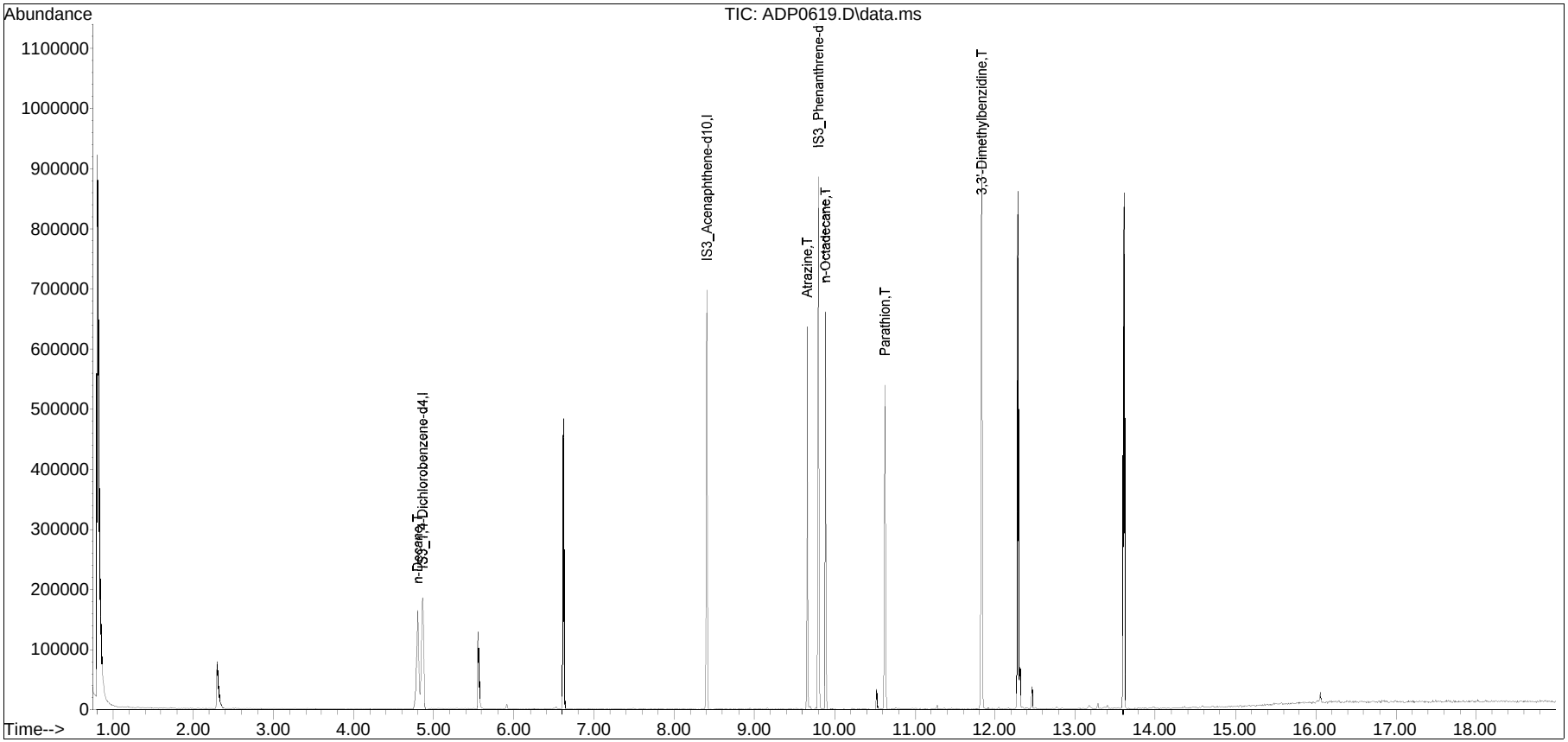
(#) = qualifier out of range (m) = manual integration (+) = signals summed

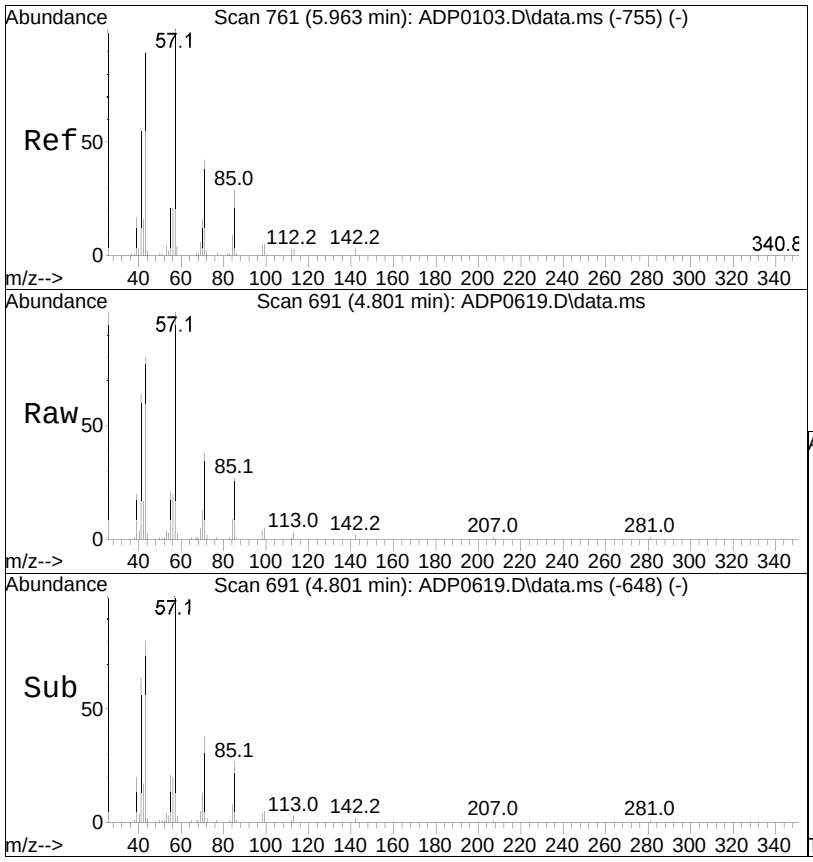
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 9:39 am
Operator : SV106:sz
Sample : wg1936417-5,32,,ADP 10751 gmr0518B
Misc : wg1936417,,ical21056
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 10:14:45 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 10:15:15 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

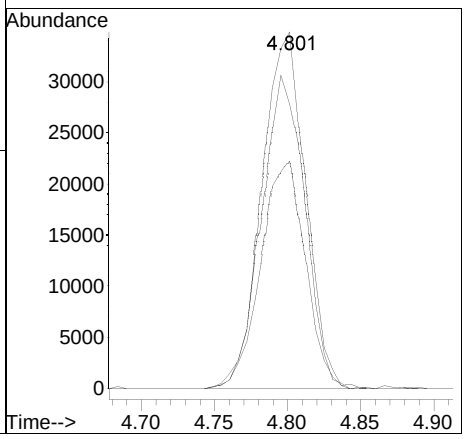


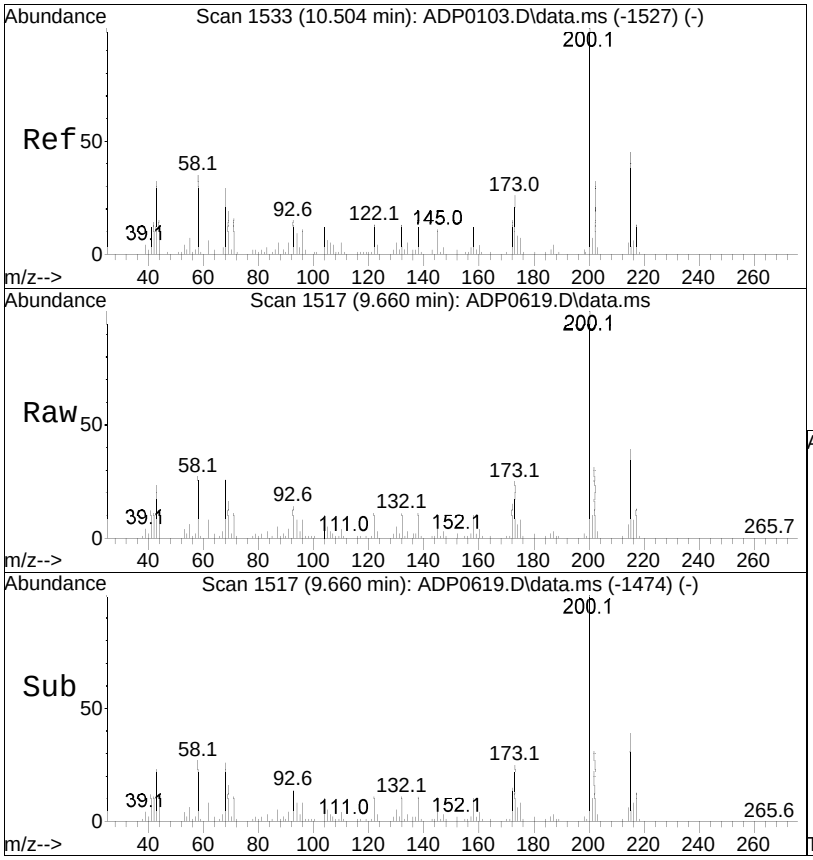


#33
n-Decane
Concen: 2.99 ug/ml
RT: 4.801 min Scan# 691
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 9:39 am

Tgt Ion: 57 Resp: 72334

Ion	Ratio	Lower	Upper
57	100		
43	87.4	0.2	0.2#
41	65.2	0.2	0.2#

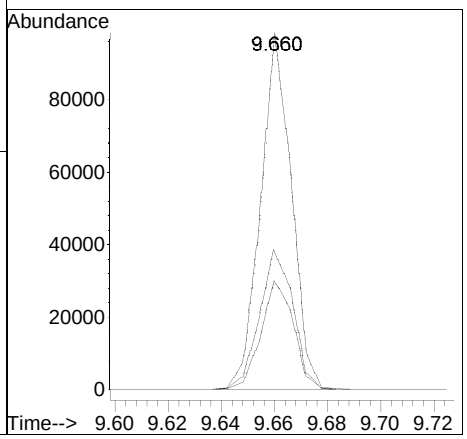


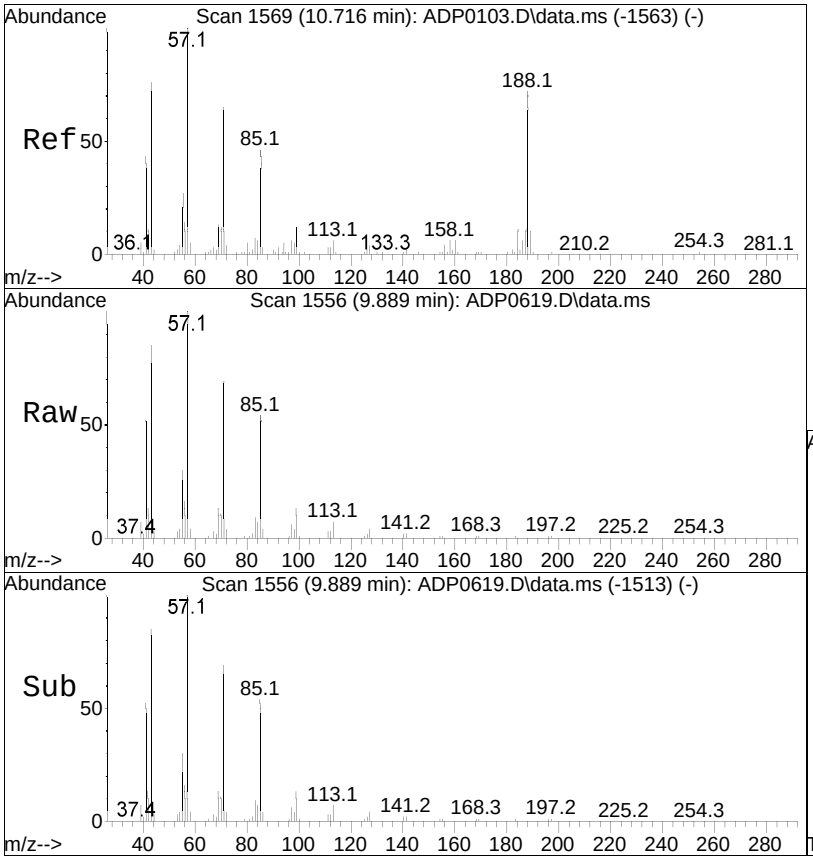


#86
Atrazine
Concen: 5.24 ug/ml
RT: 9.660 min Scan# 1517
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 9:39 am

Tgt Ion:200 Resp: 78361

Ion	Ratio	Lower	Upper
200	100		
202	32.5	25.8	38.6
215	42.9	40.2	60.4

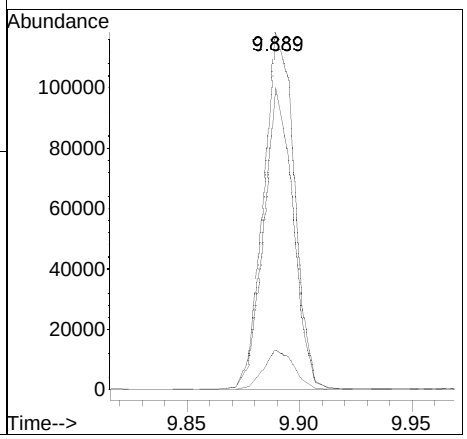


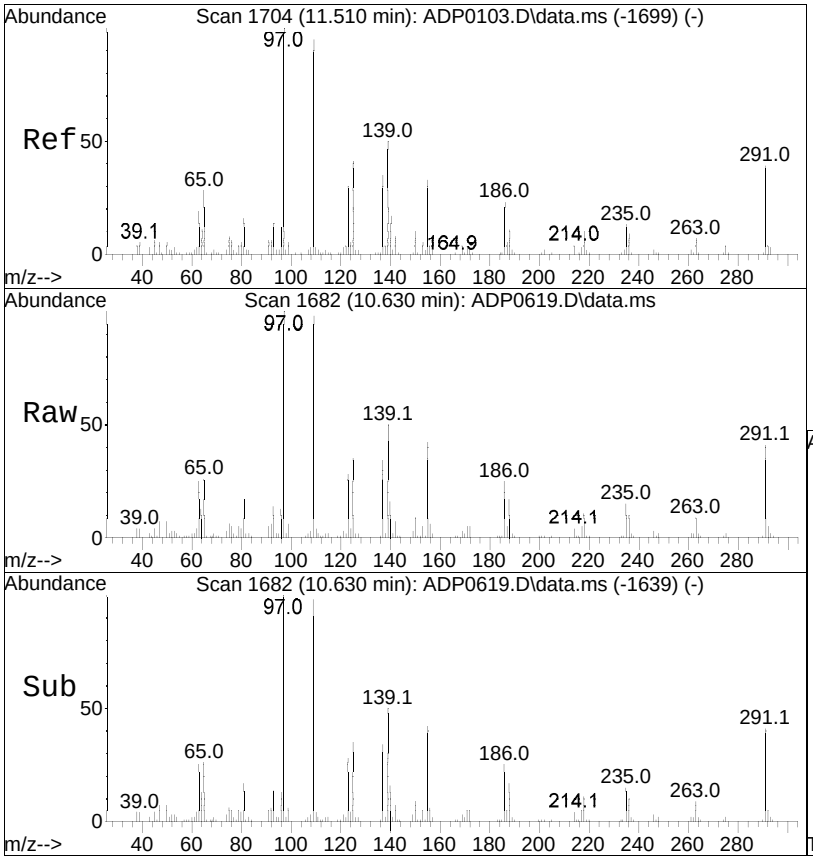


#100
n-Octadecane
Concen: 3.24 ug/ml
RT: 9.889 min Scan# 1556
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 9:39 am

Tgt Ion: 57 Resp: 111985

Ion	Ratio	Lower	Upper
57	100		
43	80.9	9.0	13.6#
70	10.9	0.2	0.2#

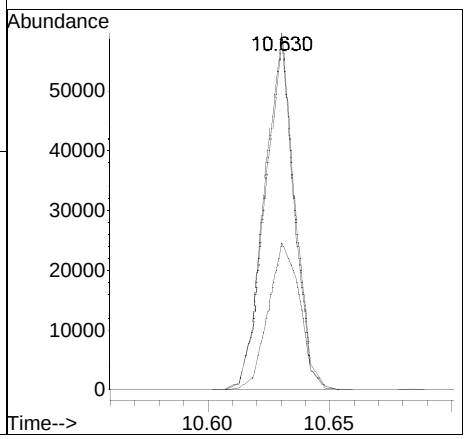


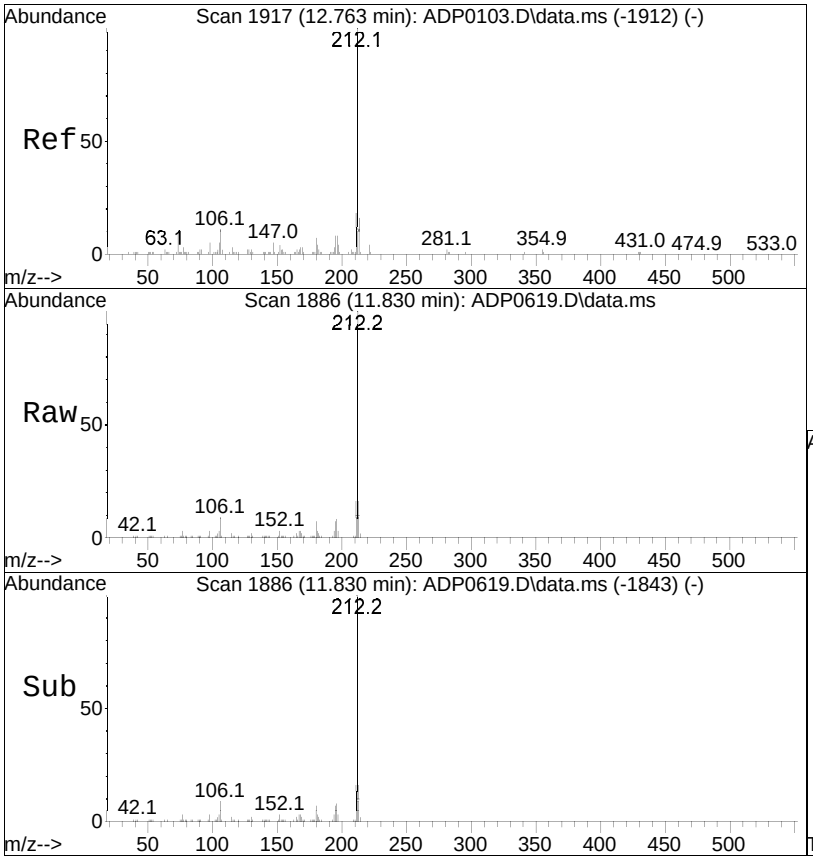


#101
Parathion
Concen: 5.07 ug/ml
RT: 10.630 min Scan# 1682
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 9:39 am

Tgt Ion:109 Resp: 48052

Ion	Ratio	Lower	Upper
109	100		
97	105.6	87.4	131.2
291	45.9	34.2	51.2

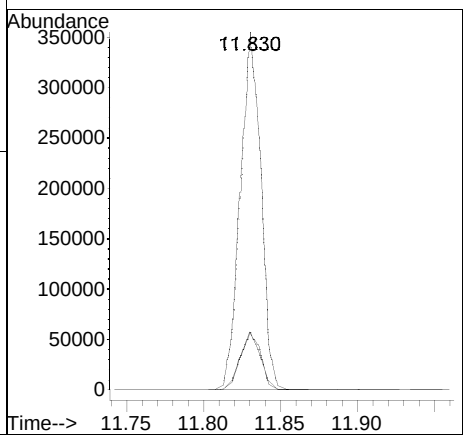




#102
3,3'-Dimethylbenzidine
Concen: 5.20 ug/ml
RT: 11.830 min Scan# 1886
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 9:39 am

Tgt Ion:212 Resp: 326235

Ion	Ratio	Lower	Upper
212	100		
211	16.3	12.9	19.3
213	16.0	13.2	19.8



Manual Integration Report

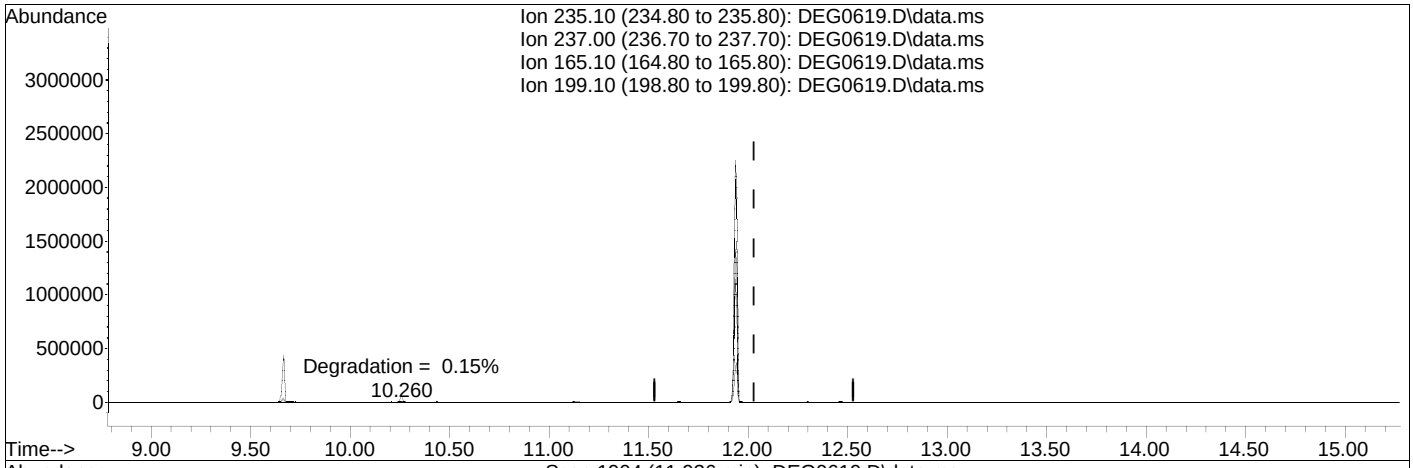
Data Path	: I:\8270\SV106\240619aRVT\	QMethod	: FS240418SV106.m
Data File	: ADP0619.D	Operator	: SV106:sz
Date Inj'd	: 6/19/2024 9:39 am	Instrument	: SV 106
Sample	: wg1936417-5,32,,ADP 10751	Quant Date	: 6/19/2024 10:15 am

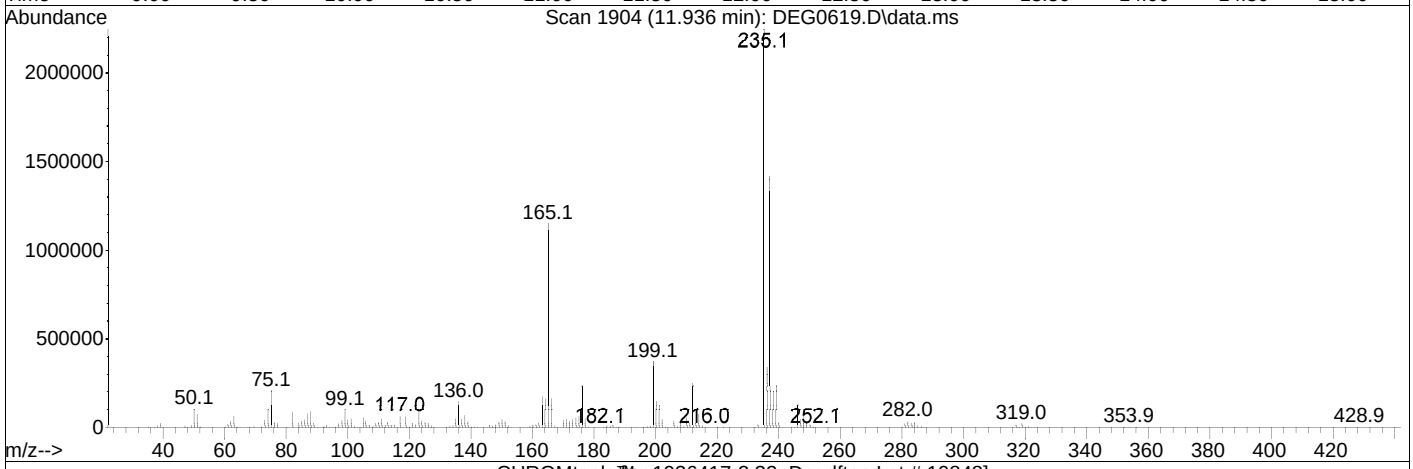
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240619aRVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 8:04 am
Operator : SV106:sz
Sample : wg1936417-2,32,,Degdftpp Lot # 10848
Misc : wg1936417,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 08:24:20 2024
Quant Method : I:\8270\SV106\240619aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools™ [wg1936417-2,32,,Degdftpp Lot # 10848]

(6) DDT (T)

11.936min (-0.094) 365.88

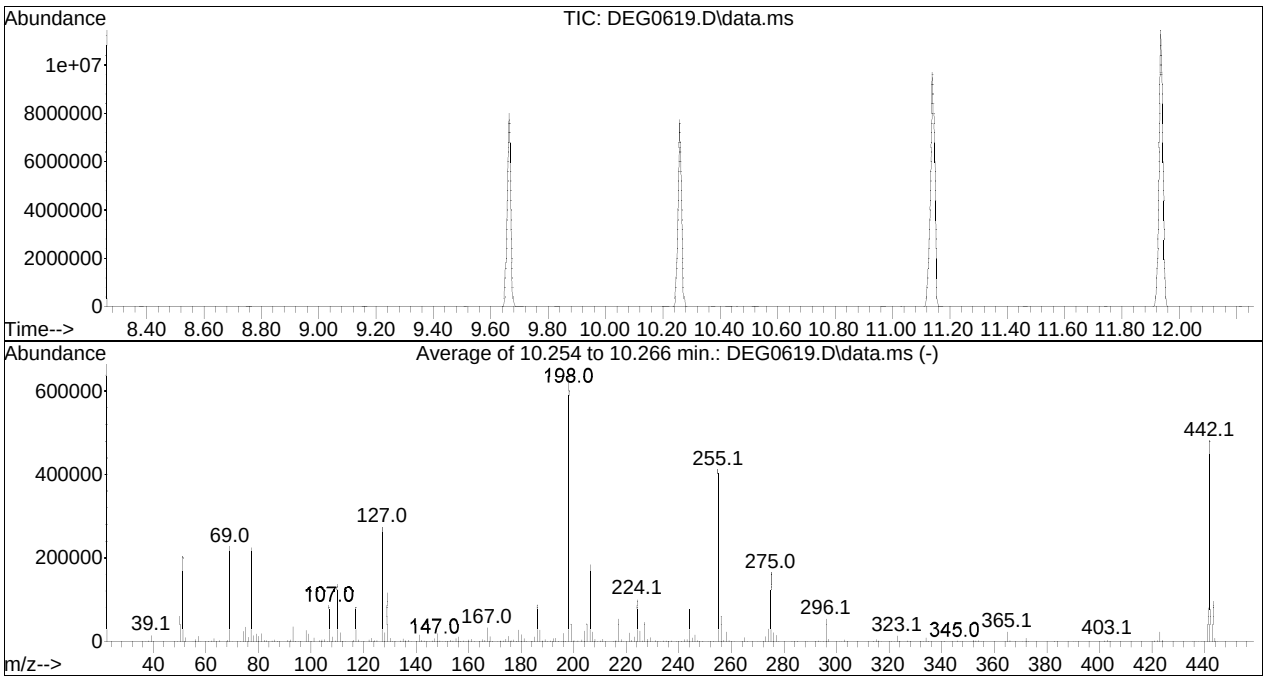
response 2230332

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.49
165.10	44.50	48.86
199.10	14.80	16.26

Data Path : I:\8270\SV106\240619aRVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 8:04 am
Operator : SV106:gmr
Sample : WG1936417-1,32,,Degdftpp Lot # 10848
Misc : WG1936417,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 18 21:21:54 2024



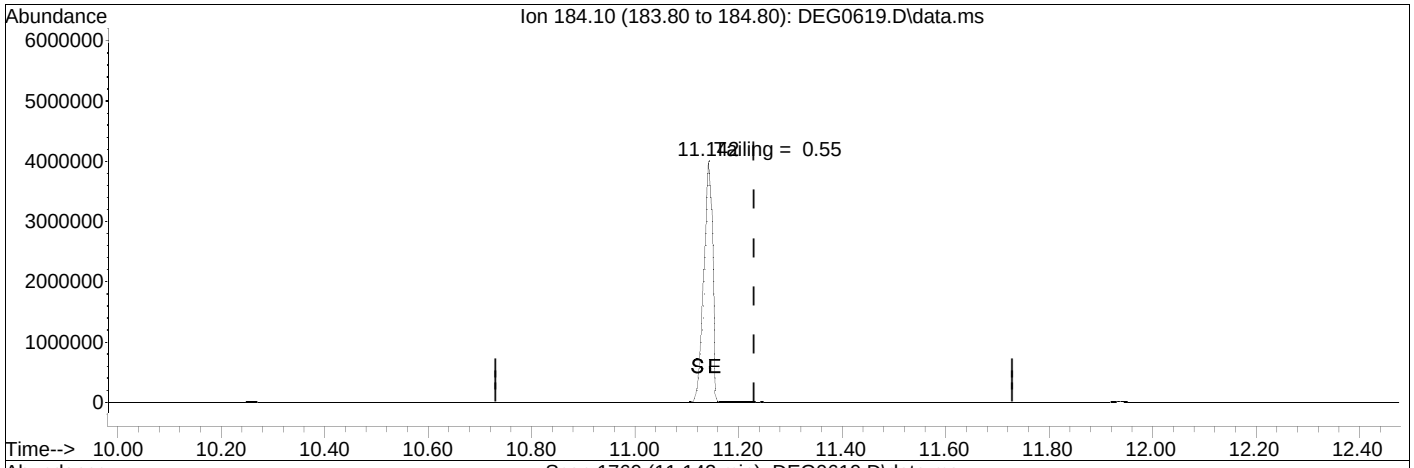
Spectrum Information: Average of 10.254 to 10.266 min.

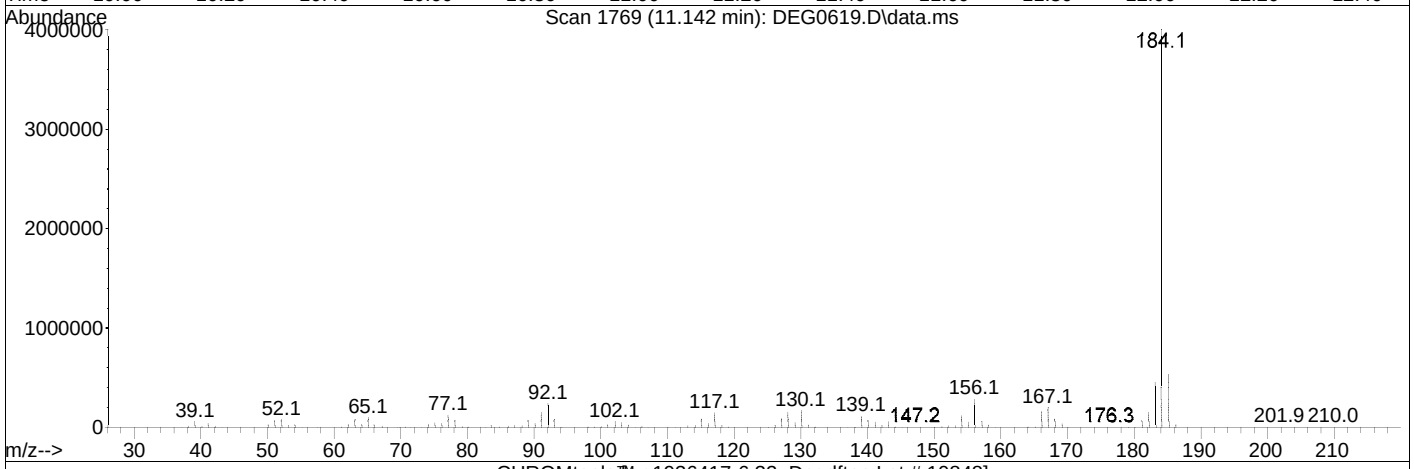
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.2	203342	PASS
68	69	0.00	2	1.8	4123	PASS
69	69	100	100	100.0	227322	PASS
70	69	0.00	2	0.4	993	PASS
127	198	10	80	43.3	273646	PASS
197	198	0.00	2	0.4	2531	PASS
198	198	100	100	100.0	632215	PASS
199	198	5	9	6.7	42445	PASS
275	198	10	60	26.0	164074	PASS
365	198	1	100	3.7	23223	PASS
441	442	0.01	24	16.4	78603	PASS
442	198	50	100	76.0	480597	PASS
443	442	15	24	19.9	95488	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240619aRVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 8:04 am
Operator : SV106:sz
Sample : wg1936417-6,32,,Degdftpp Lot # 10848
Misc : wg1936417,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 08:24:20 2024
Quant Method : I:\8270\SV106\240619aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools [wg1936417-6,32,,Degdftpp Lot # 10848]

(3) Benzidine (T)

11.142min (-0.088) 426.06

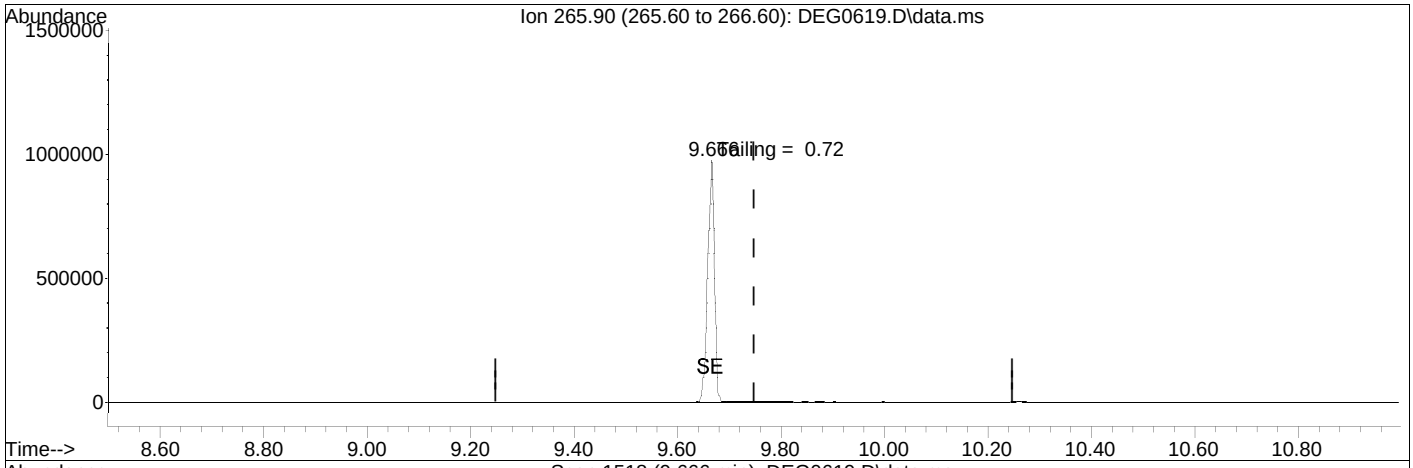
response 4337287

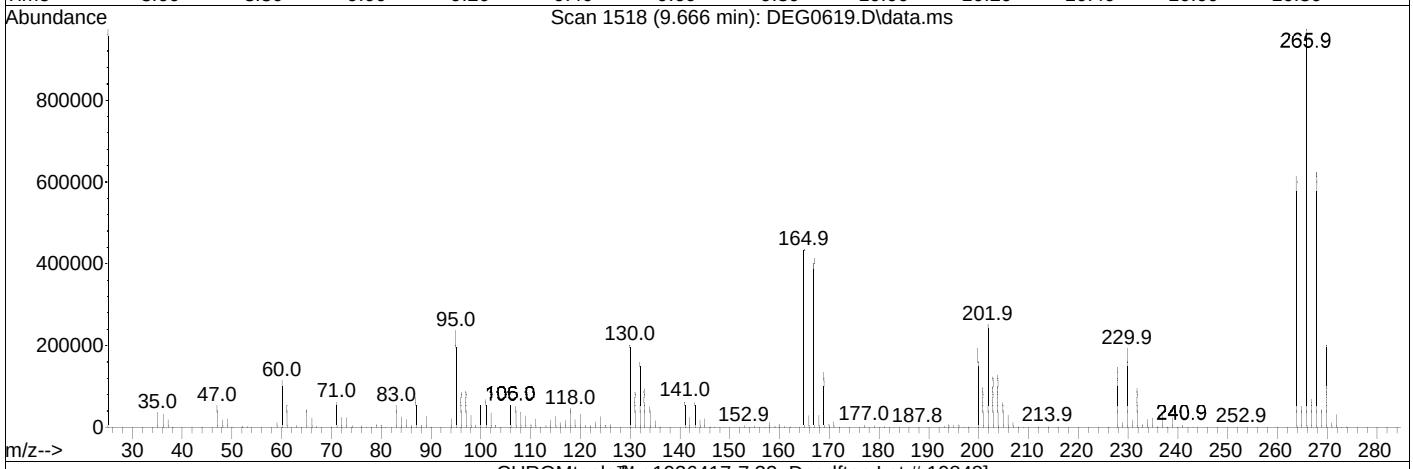
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240619aRVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 8:04 am
Operator : SV106:sz
Sample : wg1936417-7,32,,Degdftpp Lot # 10848
Misc : wg1936417,,ical21056
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 08:24:20 2024
Quant Method : I:\8270\SV106\240619aRVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 22:17:54 2024
Response via : Initial Calibration





CHROMtools [wg1936417-7,32,,Degdftpp Lot # 10848]

(1) Pentachlorophenol (T)

9.666min (-0.082) 386.79

response 812393

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
n-Nitrosodimethylamine	0.789	0.848	-	-7.5	20	143	0
Pyridine	1.181	1.141	-	3.4	20	114	0
2-Fluorophenol	1.131	1.156	-	-2.2	20	134	0
Aniline	1.89	1.765	-	6.6	20	122	0
2-Chlorophenol	1.23	1.27	-	-3.3	20	131	0
Phenol-d6	1.461	1.652	-	-13.1	20	144	0
Phenol	1.557	1.646	-	-5.7	20	135	0
Bis(2-chloroethyl)ether	1.229	1.208	-	1.7	20	126	0
1,3-Dichlorobenzene	1.423	1.414	-	0.6	20	130	0
1,4-Dichlorobenzene	1.486	1.436	-	3.4	20	132	0
1,2-Dichlorobenzene	1.357	1.379	-	-1.6	20	133	0
Benzyl alcohol	1.189	1.152	-	3.1	20	122	0
Bis(2-chloroisopropyl)ethe	1.817	1.592	-	12.4	20	113	0
2-Methylphenol	1.108	1.148	-	-3.6	20	135	0
Hexachloroethane	0.606	0.601	-	0.8	20	126	0
n-Nitrosodi-n-propylamine	1.034	0.963	-	6.9	20	117	0
3-Methylphenol/4-Methylphe	1.204	1.202	-	0.2	20	129	0
Nitrobenzene-d5	1.564	1.526	-	2.4	20	124	0
Nitrobenzene	1.505	1.453	-	3.5	20	120	0
Isophorone	2.67	2.598	-	2.7	20	122	0
2-Nitrophenol	0.622	0.688	-	-10.6	20	144	0
2,4-Dimethylphenol	1.261	1.03	-	18.3	20	104	0
Bis(2-chloroethoxy)methane	1.675	1.576	-	5.9	20	123	0
2,4-Dichlorophenol	1.149	1.149	-	0	20	125	0
1,2,4-Trichlorobenzene	1.404	1.346	-	4.1	20	126	0
IS1_Naphthalene-d8	1	1	-	0	20	119	0
Naphthalene	1.066	1.051	-	1.4	20	128	0
Benzoic Acid	5	5.702	-	-14	20	153	0
4-Chloroaniline	0.16	0.148	-	7.5	20	117	0
Hexachlorobutadiene	0.275	0.245	-	10.9	20	117	0
p-Chloro-m-cresol	0.327	0.336	-	-2.8	20	126	0
2-Methylnaphthalene	0.711	0.69	-	3	20	123	0
1-Methylnaphthalene	0.297	0.275	-	7.4	20	121	0
Hexachlorocyclopentadiene	0.273	0.252	-	7.7	20	116	0
2,4,6-Trichlorophenol	0.266	0.284	-	-6.8	20	128	0
2,4,5-Trichlorophenol	0.289	0.3	-	-3.8	20	125	0
2-Fluorobiphenyl	0.928	0.844	-	9.1	20	117	0
2-Chloronaphthalene	0.743	0.688	-	7.4	20	118	0
2-Nitroaniline	0.215	0.237	-	-10.2	20	137	0
1,4-Dinitrobenzene	0.114	0.119	-	-4.4	20	125	0
1,3-Dinitrobenzene	0.13	0.13	-	0	20	120	0
Dimethyl phthalate	0.982	0.925	-	5.8	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.142	-	1.1	20	125	0
2,6-Dinitrotoluene	0.197	0.193	-	2	20	121	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	129	0
IS1_Acenaphthene-d10	1	1	-	0	20	110	0
3-Nitroaniline	0.293	0.339	-	-15.7	20	134	0
Acenaphthene	0.991	0.988	-	0.3	20	118	0
2,4-Dinitrophenol	5	6.155	-	-23.1*	20	157	0
Dibenzofuran	1.734	1.649	-	4.9	20	118	0
2,4-Dinitrotoluene	0.398	0.432	-	-8.5	20	120	0
4-Nitrophenol	0.314	0.357	-	-13.7	20	123	0
2,3,5,6-Tetrachlorophenol	0.353	0.426	-	-20.7*	20	129	0
2,3,4,6-Tetrachlorophenol	0.346	0.404	-	-16.8	20	129	0
Diethyl phthalate	1.443	1.488	-	-3.1	20	118	0
Fluorene	1.363	1.324	-	2.9	20	117	0
4-Chlorophenyl phenyl ethe	0.717	0.654	-	8.8	20	112	0
4-Nitroaniline	0.287	0.34	-	-18.5	20	131	0
4,6-Dinitro-o-cresol	0.224	0.299	-	-33.5*	20	149	0
NDPA/DPA	1.122	1.115	-	0.6	20	116	0
Azobenzene	1.43	1.267	-	11.4	20	105	0
2,4,6-Tribromophenol	0.213	0.232	-	-8.9	20	124	0
4-Bromophenyl phenyl ether	0.427	0.393	-	8	20	110	0
Hexachlorobenzene	0.494	0.45	-	8.9	20	113	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	134	0
IS1_Phenanthrene-d10	1	1	-	0	20	108	0
Phenanthrene	0.988	0.951	-	3.7	20	117	0
Anthracene	0.977	0.983	-	-0.6	20	119	0
Carbazole	0.894	0.948	-	-6	20	121	0
Di-n-butylphthalate	1.089	1.203	-	-10.5	20	124	0
Fluoranthene	1.131	1.147	-	-1.4	20	118	0
Benzidine	0.648	0.779	-	-20.2*	20	128	0
Pyrene	1.194	1.225	-	-2.6	20	121	0
4-Terphenyl-d14	0.861	0.83	-	3.6	20	114	0
Butyl benzyl phthalate	0.463	0.589	-	-27.2*	20	143	0
IS1_Chrysene-d12	1	1	-	0	20	113	0
Benzo(a)anthracene	1.294	1.343	-	-3.8	20	127	0
3,3'-Dichlorobenzidine	0.446	0.516	-	-15.7	20	137	0
Chrysene	1.277	1.232	-	3.5	20	121	0
Bis(2-ethylhexyl)phthalate	0.767	0.947	-	-23.5*	20	146	0
Di-n-octylphthalate	1.257	1.659	-	-32*	20	155	0
Benzo(b)fluoranthene	1.181	1.228	-	-4	20	119	0
Benzo(k)fluoranthene	1.154	1.268	-	-9.9	20	140	0
Benzo(a)pyrene	1.058	1.195	-	-12.9	20	136	0
IS1_Perylene-d12	1	1	-	0	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:06		
Lab File ID	: ABN0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.041	-	-5.9	20	139	0
Dibenzo(a,h)anthracene	0.935	0.994	-	-6.3	20	136	0
Benzo(ghi)perylene	0.923	1.013	-	-9.8	20	143	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:30		
Lab File ID	: ADP0616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
n-Decane	1.537	1.364	-	11.3	20	101	0
IS3_Acenaphthene-d10	1	1	-	0	20	102	0
Atrazine	0.403	0.419	-	-4	20	109	0
IS3_Phenanthrene-d10	1	1	-	0	20	99	0
n-Octadecane	0.44	0.42	-	4.5	20	96	0
Parathion	0.121	0.139	-	-14.9	20	127	0
3,3'-Dimethylbenzidine	5	4.992	-	0.2	20	119	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/16/24 13:54		
Lab File ID	: AP90616	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1934989-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	1.095	1.294	-	-18.2	20	140	0
Acetophenone	1.981	2.234	-	-12.8	20	130	0
m-Toluidine	1.685	2.115	-	-25.5*	20	133	0
2-Chloroaniline	1.619	1.892	-	-16.9	20	131	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.33	0.378	-	-14.5	20	125	0
3-Chloroaniline	0.181	0.21	-	-16	20	120	0
2,6-Dichlorophenol	0.3	0.361	-	-20.3*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.195	-	-13.4	20	131	0
Caprolactam	0.176	0.195	-	-10.8	20	123	0
1,2,4,5-Tetrachlorobenzene	0.461	0.491	-	-6.5	20	120	0
Biphenyl	0.901	0.999	-	-10.9	20	120	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.191	0.24	-	-25.7*	20	131	0
Pentachloronitrobenzene	0.232	0.282	-	-21.6*	20	133	0
IS2_Phenanthrene-d10	1	1	-	0	20	101	0
Diphenamid	0.451	0.559	-	-23.9*	20	128	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:12		
Lab File ID	: AP90618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
Benzaldehyde	1.095	1.28	-	-16.9	20	151	0
Acetophenone	1.981	2.198	-	-11	20	140	0
m-Toluidine	1.685	2.112	-	-25.3*	20	144	0
2-Chloroaniline	1.619	1.864	-	-15.1	20	141	0
IS2_Naphthalene-d8	1	1	-	0	20	113	0
a-Terpineol	0.33	0.386	-	-17	20	141	0
3-Chloroaniline	0.181	0.207	-	-14.4	20	130	0
2,6-Dichlorophenol	0.3	0.371	-	-23.7*	20	151	0
1-chloro-2-nitrobenzene	0.172	0.194	-	-12.8	20	144	0
Caprolactam	0.176	0.204	-	-15.9	20	142	0
1,2,4,5-Tetrachlorobenzene	0.461	0.48	-	-4.1	20	129	0
Biphenyl	0.901	0.986	-	-9.4	20	131	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	0.191	0.25	-	-30.9*	20	149	0
Pentachloronitrobenzene	0.232	0.295	-	-27.2*	20	152	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.451	0.587	-	-30.2*	20	145	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.857	-	-8.6	20	109	0
Pyridine	1.181	1.309	-	-10.8	20	99	0
2-Fluorophenol	1.131	1.206	-	-6.6	20	106	0
Aniline	1.89	1.831	-	3.1	20	95	0
2-Chlorophenol	1.23	1.339	-	-8.9	20	104	0
Phenol-d6	1.461	1.707	-	-16.8	20	112	0
Phenol	1.557	1.701	-	-9.2	20	105	0
Bis(2-chloroethyl)ether	1.229	1.236	-	-0.6	20	97	0
1,3-Dichlorobenzene	1.423	1.463	-	-2.8	20	101	0
1,4-Dichlorobenzene	1.486	1.464	-	1.5	20	101	0
1,2-Dichlorobenzene	1.357	1.425	-	-5	20	103	0
Benzyl alcohol	1.189	1.205	-	-1.3	20	96	0
Bis(2-chloroisopropyl)ethe	1.817	1.648	-	9.3	20	88	0
2-Methylphenol	1.108	1.163	-	-5	20	103	0
Hexachloroethane	0.606	0.619	-	-2.1	20	98	0
n-Nitrosodi-n-propylamine	1.034	0.988	-	4.4	20	90	0
3-Methylphenol/4-Methylphe	1.204	1.25	-	-3.8	20	101	0
Nitrobenzene-d5	1.564	1.585	-	-1.3	20	97	0
Nitrobenzene	1.505	1.538	-	-2.2	20	95	0
Isophorone	2.67	2.61	-	2.2	20	93	0
2-Nitrophenol	0.622	0.713	-	-14.6	20	112	0
2,4-Dimethylphenol	1.261	1.057	-	16.2	20	80	0
Bis(2-chloroethoxy)methane	1.675	1.647	-	1.7	20	97	0
2,4-Dichlorophenol	1.149	1.165	-	-1.4	20	96	0
1,2,4-Trichlorobenzene	1.404	1.372	-	2.3	20	97	0
IS1_Naphthalene-d8	1	1	-	0	20	91	0
Naphthalene	1.066	1.064	-	0.2	20	98	0
Benzoic Acid	5	5.473	-	-9.5	20	112	0
4-Chloroaniline	0.16	0.152	-	5	20	91	0
Hexachlorobutadiene	0.275	0.248	-	9.8	20	90	0
p-Chloro-m-cresol	0.327	0.334	-	-2.1	20	95	0
2-Methylnaphthalene	0.711	0.683	-	3.9	20	93	0
1-Methylnaphthalene	0.297	0.28	-	5.7	20	94	0
Hexachlorocyclopentadiene	0.273	0.249	-	8.8	20	87	0
2,4,6-Trichlorophenol	0.266	0.275	-	-3.4	20	94	0
2,4,5-Trichlorophenol	0.289	0.294	-	-1.7	20	93	0
2-Fluorobiphenyl	0.928	0.851	-	8.3	20	89	0
2-Chloronaphthalene	0.743	0.691	-	7	20	90	0
2-Nitroaniline	0.215	0.239	-	-11.2	20	105	0
1,4-Dinitrobenzene	0.114	0.124	-	-8.8	20	99	0
1,3-Dinitrobenzene	0.13	0.139	-	-6.9	20	97	0
Dimethyl phthalate	0.982	0.915	-	6.8	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.156	-	-0.1	20	96	0
2,6-Dinitrotoluene	0.197	0.204	-	-3.6	20	97	0
1,2-Dinitrobenzene	0.078	0.084	-	-7.7	20	99	0
IS1_Acenaphthene-d10	1	1	-	0	20	82	0
3-Nitroaniline	0.293	0.349	-	-19.1	20	104	0
Acenaphthene	0.991	1.018	-	-2.7	20	91	0
2,4-Dinitrophenol	5	6.198	-	-24*	20	119	0
Dibenzofuran	1.734	1.682	-	3	20	91	0
2,4-Dinitrotoluene	0.398	0.453	-	-13.8	20	94	0
4-Nitrophenol	0.314	0.379	-	-20.7*	20	98	0
2,3,5,6-Tetrachlorophenol	0.353	0.425	-	-20.4*	20	97	0
2,3,4,6-Tetrachlorophenol	0.346	0.397	-	-14.7	20	96	0
Diethyl phthalate	1.443	1.502	-	-4.1	20	90	0
Fluorene	1.363	1.351	-	0.9	20	90	0
4-Chlorophenyl phenyl ethe	0.717	0.662	-	7.7	20	85	0
4-Nitroaniline	0.287	0.366	-	-27.5*	20	106	0
4,6-Dinitro-o-cresol	0.224	0.294	-	-31.2*	20	110	0
NDPA/DPA	1.122	1.14	-	-1.6	20	89	0
Azobenzene	1.43	1.343	-	6.1	20	84	0
2,4,6-Tribromophenol	0.213	0.23	-	-8	20	92	0
4-Bromophenyl phenyl ether	0.427	0.392	-	8.2	20	82	0
Hexachlorobenzene	0.494	0.457	-	7.5	20	86	0
Pentachlorophenol	0.288	0.341	-	-18.4	20	101	0
IS1_Phenanthrene-d10	1	1	-	0	20	79	0
Phenanthrene	0.988	0.997	-	-0.9	20	89	0
Anthracene	0.977	1.002	-	-2.6	20	89	0
Carbazole	0.894	1.001	-	-12	20	94	0
Di-n-butylphthalate	1.089	1.256	-	-15.3	20	95	0
Fluoranthene	1.131	1.1	-	2.7	20	83	0
Benzidine	0.648	0.878	-	-35.5*	20	105	0
Pyrene	1.194	1.301	-	-9	20	93	0
4-Terphenyl-d14	0.861	0.871	-	-1.2	20	87	0
Butyl benzyl phthalate	0.463	0.641	-	-38.4*	20	114	0
IS1_Chrysene-d12	1	1	-	0	20	88	0
Benzo(a)anthracene	1.294	1.365	-	-5.5	20	100	0
3,3'-Dichlorobenzidine	0.446	0.536	-	-20.2*	20	110	0
Chrysene	1.277	1.32	-	-3.4	20	100	0
Bis(2-ethylhexyl)phthalate	0.767	0.982	-	-28*	20	117	0
Di-n-octylphthalate	1.257	1.742	-	-38.6*	20	126	0
Benzo(b)fluoranthene	1.181	1.436	-	-21.6*	20	108	0
Benzo(k)fluoranthene	1.154	1.17	-	-1.4	20	100	0
Benzo(a)pyrene	1.058	1.266	-	-19.7	20	112	0
IS1_Perylene-d12	1	1	-	0	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 10:36		
Lab File ID	: ABN0618A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.032	-	-5	20	111	0
Dibenzo(a,h)anthracene	0.935	1.031	-	-10.3	20	113	0
Benzo(ghi)perylene	0.923	1.014	-	-9.9	20	115	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/18/24 11:00		
Lab File ID	: ADP0618	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1935854-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	-.05
n-Decane	1.53738	0.00766	-	99.5*	20	1	.01
IS3_Acenaphthene-d10	1	1	-	0	20	80	-.03
Atrazine	0.403	0.446	-	-10.7	20	91	-.03
IS3_Phenanthrene-d10	1	1	-	0	20	84	-.03
n-Octadecane	0.44	0.416	-	5.5	20	81	-.03
Parathion	0.121	0.135	-	-11.6	20	105	-.03
3,3'-Dimethylbenzidine	5	5.425	-	-8.5	20	110	-.04

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 08:51		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-4	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Benzaldehyde	1.095	1.178	-	-7.6	20	123	0
Acetophenone	1.981	1.957	-	1.2	20	110	0
m-Toluidine	1.685	1.987	-	-17.9	20	121	0
2-Chloroaniline	1.619	1.858	-	-14.8	20	125	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.33	0.249	-	24.5*	20	81	0
3-Chloroaniline	0.181	0.157	-	13.3	20	88	0
2,6-Dichlorophenol	0.3	0.365	-	-21.7*	20	133	0
1-chloro-2-nitrobenzene	0.172	0.169	-	1.7	20	113	0
Caprolactam	0.176	0.132	-	25*	20	82	0
1,2,4,5-Tetrachlorobenzene	0.461	0.494	-	-7.2	20	119	0
Biphenyl	0.901	1.004	-	-11.4	20	119	0
IS2_Acenaphthene-d10	1	1	-	0	20	104	0
Dichloran	0.191	0.257	-	-34.6*	20	145	0
Pentachloronitrobenzene	0.232	0.277	-	-19.4	20	135	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.451	0.549	-	-21.7*	20	127	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.789	0.654	-	17.1	20	83	0
Pyridine	1.181	1.111	-	5.9	20	84	0
2-Fluorophenol	1.131	1.074	-	5	20	94	0
Aniline	1.89	1.624	-	14.1	20	85	0
2-Chlorophenol	1.23	1.217	-	1.1	20	94	0
Phenol-d6	1.461	1.445	-	1.1	20	95	0
Phenol	1.557	1.418	-	8.9	20	88	0
Bis(2-chloroethyl)ether	1.229	0.961	-	21.8*	20	75	0
1,3-Dichlorobenzene	1.423	1.427	-	-0.3	20	99	0
1,4-Dichlorobenzene	1.486	1.457	-	2	20	101	0
1,2-Dichlorobenzene	1.357	1.361	-	-0.3	20	99	0
Benzyl alcohol	1.189	0.955	-	19.7	20	76	0
Bis(2-chloroisopropyl)ethe	1.817	0.879	-	51.6*	20	47	0
2-Methylphenol	1.108	1.022	-	7.8	20	91	0
Hexachloroethane	0.606	0.528	-	12.9	20	83	0
n-Nitrosodi-n-propylamine	1.034	0.725	-	29.9*	20	66	0
3-Methylphenol/4-Methylphe	1.204	1.165	-	3.2	20	94	0
Nitrobenzene-d5	1.564	1.2	-	23.3*	20	73	0
Nitrobenzene	1.505	1.175	-	21.9*	20	73	0
Isophorone	2.67	1.979	-	25.9*	20	70	0
2-Nitrophenol	0.622	0.687	-	-10.5	20	108	0
2,4-Dimethylphenol	1.261	1.006	-	20.2*	20	76	0
Bis(2-chloroethoxy)methane	1.675	1.255	-	25.1*	20	74	0
2,4-Dichlorophenol	1.149	1.144	-	0.4	20	94	0
1,2,4-Trichlorobenzene	1.404	1.352	-	3.7	20	95	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.066	1.028	-	3.6	20	94	0
Benzoic Acid	5	4.785	-	4.3	20	96	0
4-Chloroaniline	0.16	0.117	-	26.9*	20	69	0
Hexachlorobutadiene	0.275	0.251	-	8.7	20	90	0
p-Chloro-m-cresol	0.327	0.286	-	12.5	20	81	0
2-Methylnaphthalene	0.711	0.709	-	0.3	20	95	0
1-Methylnaphthalene	0.297	0.254	-	14.5	20	84	0
Hexachlorocyclopentadiene	0.273	0.307	-	-12.5	20	106	0
2,4,6-Trichlorophenol	0.266	0.286	-	-7.5	20	97	0
2,4,5-Trichlorophenol	0.289	0.297	-	-2.8	20	93	0
2-Fluorobiphenyl	0.928	0.863	-	7	20	90	0
2-Chloronaphthalene	0.743	0.695	-	6.5	20	89	0
2-Nitroaniline	0.215	0.229	-	-6.5	20	99	0
1,4-Dinitrobenzene	0.114	0.121	-	-6.1	20	95	0
1,3-Dinitrobenzene	0.13	0.133	-	-2.3	20	92	0
Dimethyl phthalate	0.982	0.886	-	9.8	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.155	1.117	-	3.3	20	91	0
2,6-Dinitrotoluene	0.197	0.195	-	1	20	91	0
1,2-Dinitrobenzene	0.078	0.081	-	-3.8	20	94	0
IS1_Acenaphthene-d10	1	1	-	0	20	83	0
3-Nitroaniline	0.293	0.325	-	-10.9	20	97	0
Acenaphthene	0.991	1.01	-	-1.9	20	91	0
2,4-Dinitrophenol	5	6.319	-	-26.4*	20	122	0
Dibenzofuran	1.734	1.636	-	5.7	20	88	0
2,4-Dinitrotoluene	0.398	0.415	-	-4.3	20	87	0
4-Nitrophenol	0.314	0.269	-	14.3	20	70	0
2,3,5,6-Tetrachlorophenol	0.353	0.441	-	-24.9*	20	101	0
2,3,4,6-Tetrachlorophenol	0.346	0.407	-	-17.6	20	98	0
Diethyl phthalate	1.443	1.357	-	6	20	81	0
Fluorene	1.363	1.316	-	3.4	20	88	0
4-Chlorophenyl phenyl ethe	0.717	0.684	-	4.6	20	88	0
4-Nitroaniline	0.287	0.321	-	-11.8	20	93	0
4,6-Dinitro-o-cresol	0.224	0.292	-	-30.4*	20	110	0
NDPA/DPA	1.122	1.108	-	1.2	20	87	0
Azobenzene	1.43	0.985	-	31.1*	20	62	0
2,4,6-Tribromophenol	0.213	0.254	-	-19.2	20	102	0
4-Bromophenyl phenyl ether	0.427	0.413	-	3.3	20	87	0
Hexachlorobenzene	0.494	0.51	-	-3.2	20	96	0
Pentachlorophenol	0.288	0.358	-	-24.3*	20	106	0
IS1_Phenanthrene-d10	1	1	-	0	20	80	0
Phenanthrene	0.988	0.949	-	3.9	20	86	0
Anthracene	0.977	0.974	-	0.3	20	87	0
Carbazole	0.894	0.926	-	-3.6	20	88	0
Di-n-butylphthalate	1.089	1.139	-	-4.6	20	87	0
Fluoranthene	1.131	1.143	-	-1.1	20	87	0
Benzidine	0.648	0.789	-	-21.8*	20	96	0
Pyrene	1.194	1.242	-	-4	20	91	0
4-Terphenyl-d14	0.861	0.863	-	-0.2	20	88	0
Butyl benzyl phthalate	0.463	0.532	-	-14.9	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	86	0
Benzo(a)anthracene	1.294	1.327	-	-2.6	20	95	0
3,3'-Dichlorobenzidine	0.446	0.513	-	-15	20	103	0
Chrysene	1.277	1.231	-	3.6	20	92	0
Bis(2-ethylhexyl)phthalate	0.767	0.874	-	-14	20	102	0
Di-n-octylphthalate	1.257	1.571	-	-25*	20	111	0
Benzo(b)fluoranthene	1.181	1.383	-	-17.1	20	102	0
Benzo(k)fluoranthene	1.154	1.236	-	-7.1	20	103	0
Benzo(a)pyrene	1.058	1.292	-	-22.1*	20	112	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:15		
Lab File ID	: ABN0619A	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-3	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.983	1.12	-	-13.9	20	124	0
Dibenzo(a,h)anthracene	0.935	1.098	-	-17.4	20	124	0
Benzo(ghi)perylene	0.923	1.056	-	-14.4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 06/19/24 09:39		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 04/18/24	04/19/24	
Sample No	: WG1936417-5	**Init. Calib. Times**	: 20:50	08:27	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Decane	1.537	0.919	-	40.2*	20	67	0
IS3_Acenaphthene-d10	1	1	-	0	20	105	0
Atrazine	0.403	0.422	-	-4.7	20	113	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.44	0.285	-	35.2*	20	65	0
Parathion	0.121	0.122	-	-0.8	20	111	0
3,3'-Dimethylbenzidine	5	5.199	-	-4	20	123	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	111	0
n-Nitrosodimethylamine	0.704	0.761	-	-8.1	20	122	0
Pyridine	1.199	1.157	-	3.5	20	111	0
2-Fluorophenol	1.069	1.075	-	-0.6	20	115	0
Aniline	1.713	1.697	-	0.9	20	115	0
2-Chlorophenol	1.178	1.204	-	-2.2	20	118	0
Phenol-d6	1.322	1.361	-	-3	20	119	0
Phenol	1.438	1.482	-	-3.1	20	121	0
Bis(2-chloroethyl)ether	1.185	1.206	-	-1.8	20	122	0
1,3-Dichlorobenzene	1.452	1.439	-	0.9	20	117	0
1,4-Dichlorobenzene	1.478	1.473	-	0.3	20	118	0
1,2-Dichlorobenzene	1.426	1.404	-	1.5	20	116	0
Benzyl alcohol	1	0.976	-	2.4	20	114	0
Bis(2-chloroisopropyl)ethe	1.623	1.719	-	-5.9	20	127	0
2-Methylphenol	1.031	1.029	-	0.2	20	115	0
Hexachloroethane	0.545	0.566	-	-3.9	20	121	0
n-Nitrosodi-n-propylamine	0.879	0.857	-	2.5	20	114	0
3-Methylphenol/4-Methylphe	1.084	1.102	-	-1.7	20	113	0
Nitrobenzene-d5	1.165	1.28	-	-9.9	20	123	0
Nitrobenzene	1.197	1.314	-	-9.8	20	123	0
Isophorone	2.31	2.22	-	3.9	20	109	0
2-Nitrophenol	0.533	0.571	-	-7.1	20	127	0
2,4-Dimethylphenol	1.088	0.953	-	12.4	20	100	0
Bis(2-chloroethoxy)methane	1.508	1.515	-	-0.5	20	119	0
2,4-Dichlorophenol	1.094	1.117	-	-2.1	20	113	0
1,2,4-Trichlorobenzene	1.318	1.27	-	3.6	20	115	0
IS1_Naphthalene-d8	1	1	-	0	20	112	0
Naphthalene	0.996	0.972	-	2.4	20	118	0
Benzoic Acid	5	5.412	-	-8.2	20	134	0
4-Chloroaniline	0.126	0.125	-	0.8	20	118	0
Hexachlorobutadiene	0.211	0.204	-	3.3	20	117	0
p-Chloro-m-cresol	0.272	0.264	-	2.9	20	108	0
2-Methylnaphthalene	0.688	0.66	-	4.1	20	113	0
1-Methylnaphthalene	0.235	0.234	-	0.4	20	119	0
Hexachlorocyclopentadiene	0.205	0.206	-	-0.5	20	118	0
2,4,6-Trichlorophenol	0.237	0.229	-	3.4	20	106	0
2,4,5-Trichlorophenol	0.251	0.246	-	2	20	108	0
2-Fluorobiphenyl	0.866	0.791	-	8.7	20	108	0
2-Chloronaphthalene	0.715	0.662	-	7.4	20	110	0
2-Nitroaniline	0.173	0.179	-	-3.5	20	115	0
1,4-Dinitrobenzene	0.087	0.094	-	-8	20	139	0
1,3-Dinitrobenzene	0.109	0.109	-	0	20	124	0
Dimethyl phthalate	0.839	0.773	-	7.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.079	1.027	-	4.8	20	110	0
2,6-Dinitrotoluene	0.153	0.157	-	-2.6	20	111	0
1,2-Dinitrobenzene	0.068	0.071	-	-4.4	20	113	0
IS1_Acenaphthene-d10	1	1	-	0	20	103	0
3-Nitroaniline	0.259	0.296	-	-14.3	20	119	0
Acenaphthene	1.081	1.042	-	3.6	20	110	0
2,4-Dinitrophenol	5	5.367	-	-7.3	20	138	0
Dibenzofuran	1.757	1.703	-	3.1	20	109	0
2,4-Dinitrotoluene	5	4.815	-	3.7	20	117	0
4-Nitrophenol	0.221	0.248	-	-12.2	20	123	0
2,3,5,6-Tetrachlorophenol	0.318	0.334	-	-5	20	107	0
2,3,4,6-Tetrachlorophenol	0.314	0.321	-	-2.2	20	103	0
Diethyl phthalate	1.301	1.236	-	5	20	106	0
Fluorene	1.328	1.29	-	2.9	20	108	0
4-Chlorophenyl phenyl ethe	0.672	0.643	-	4.3	20	108	0
4-Nitroaniline	0.262	0.282	-	-7.6	20	116	0
4,6-Dinitro-o-cresol	5	4.762	-	4.8	20	128	0
NDPA/DPA	1.131	1.107	-	2.1	20	108	0
Azobenzene	1.259	1.261	-	-0.2	20	108	0
2,4,6-Tribromophenol	0.171	0.154	-	9.9	20	90	0
4-Bromophenyl phenyl ether	0.376	0.328	-	12.8	20	98	0
Hexachlorobenzene	0.431	0.355	-	17.6	20	94	0
Pentachlorophenol	0.252	0.231	-	8.3	20	100	0
IS1_Phenanthrene-d10	1	1	-	0	20	98	0
Phenanthrene	1.038	1.02	-	1.7	20	106	0
Anthracene	1.03	1.032	-	-0.2	20	108	0
Carbazole	0.928	0.916	-	1.3	20	102	0
Di-n-butylphthalate	1.088	1.002	-	7.9	20	94	0
Fluoranthene	1.186	1.154	-	2.7	20	104	0
Benzidine	0.721	0.624	-	13.5	20	91	0
Pyrene	1.269	1.255	-	1.1	20	106	0
4-Terphenyl-d14	0.875	0.778	-	11.1	20	96	0
Butyl benzyl phthalate	5	4.039	-	19.2	20	95	0
IS1_Chrysene-d12	1	1	-	0	20	90	0
Benzo(a)anthracene	1.335	1.296	-	2.9	20	96	0
3,3'-Dichlorobenzidine	0.43	0.429	-	0.2	20	89	0
Chrysene	1.276	1.295	-	-1.5	20	100	0
Bis(2-ethylhexyl)phthalate	5	4.4	-	12	20	92	0
Di-n-octylphthalate	5	4.131	-	17.4	20	89	0
Benzo(b)fluoranthene	1.178	1.166	-	1	20	95	0
Benzo(k)fluoranthene	1.154	1.101	-	4.6	20	90	0
Benzo(a)pyrene	1.025	1.044	-	-1.9	20	96	0
IS1_Perylene-d12	1	1	-	0	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:07		
Lab File ID	: ABN0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-3	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.952	1.017	-	-6.8	20	95	0
Dibenzo(a,h)anthracene	0.953	1.049	-	-10.1	20	90	0
Benzo(ghi)perylene	0.928	0.993	-	-7	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:32		
Lab File ID	: AP90619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-4	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	117	0
Benzaldehyde	1.024	1.156	-	-12.9	20	141	0
Acetophenone	1.77	1.995	-	-12.7	20	137	0
m-Toluidine	1.599	1.951	-	-22*	20	140	0
2-Chloroaniline	1.546	1.774	-	-14.7	20	138	0
IS2_Naphthalene-d8	1	1	-	0	20	111	0
a-Terpineol	0.276	0.329	-	-19.2	20	142	0
3-Chloroaniline	0.147	0.182	-	-23.8*	20	146	0
2,6-Dichlorophenol	0.29	0.356	-	-22.8*	20	141	0
1-chloro-2-nitrobenzene	0.121	0.156	-	-28.9*	20	156	0
Caprolactam	0.149	0.177	-	-18.8	20	139	0
1,2,4,5-Tetrachlorobenzene	0.402	0.434	-	-8	20	131	0
Biphenyl	0.929	1.025	-	-10.3	20	134	0
IS2_Acenaphthene-d10	1	1	-	0	20	111	0
Dichloran	5	6.082	-	-21.6*	20	166	0
Pentachloronitrobenzene	5	5.875	-	-17.5	20	148	0
IS2_Phenanthrene-d10	1	1	-	0	20	107	0
Diphenamid	0.445	0.475	-	-6.7	20	118	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 06/19/24 10:58		
Lab File ID	: ADP0619	**Init. Calib. Date(s)**	: 06/02/24	06/03/24	
Sample No	: WG1936476-5	**Init. Calib. Times**	: 19:34	07:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	113	0
n-Decane	1.447	1.366	-	5.6	20	115	0
IS3_Acenaphthene-d10	1	1	-	0	20	107	0
Atrazine	0.347	0.339	-	2.3	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	106	0
n-Octadecane	0.393	0.365	-	7.1	20	97	0
Parathion	5	4.557	-	8.9	20	107	0
3,3'-Dimethylbenzidine	0.696	0.553	-	20.5*	20	88	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	111	0.00
2	t	n-Nitrosodimethylamine		0.704	0.761	-8.1	122	0.00
3	t	Pyridine		1.199	1.157	3.5	111	0.00
4	S	2-Fluorophenol		1.069	1.075	-0.6	115	0.00
5	T	Aniline		1.713	1.697	0.9	115	0.00
6	t	2-Chlorophenol		1.178	1.204	-2.2	118	0.00
7	S	Phenol-d6		1.322	1.361	-3.0	119	0.00
8	T	Phenol		1.438	1.482	-3.1	121	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.206	-1.8	122	0.00
10	T	1,3-Dichlorobenzene		1.452	1.439	0.9	117	0.00
11	T	1,4-Dichlorobenzene		1.478	1.473	0.3	118	0.00
12	T	1,2-Dichlorobenzene		1.426	1.404	1.5	116	0.00
13	t	Benzyl alcohol		1.000	0.976	2.4	114	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.719	-5.9	127	0.00
15	T	2-Methylphenol		1.031	1.029	0.2	115	0.00
16	T	Hexachloroethane		0.545	0.566	-3.9	121	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.857	2.5	114	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.102	-1.7	113	0.00
19	S	Nitrobenzene-d5		1.165	1.280	-9.9	123	0.00
20	T	Nitrobenzene		1.197	1.314	-9.8	123	0.00
21	T	Isophorone		2.310	2.220	3.9	109	0.00
22	T	2-Nitrophenol		0.533	0.571	-7.1	127	0.00
23	T	2,4-Dimethylphenol		1.088	0.953	12.4	100	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.515	-0.5	119	0.00
25	T	2,4-Dichlorophenol		1.094	1.117	-2.1	113	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.270	3.6	115	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	112	0.00
35	T	Naphthalene		0.996	0.972	2.4	118	0.00
36	T	Benzoic Acid	*	5.000	5.412	-8.2	134	0.00
37	T	4-Chloroaniline		0.126	0.125	0.8	118	0.00
38	T	Hexachlorobutadiene		0.211	0.204	3.3	117	0.00
39	T	p-Chloro-m-cresol		0.272	0.264	2.9	108	0.00
40	T	2-Methylnaphthalene		0.688	0.660	4.1	113	0.00
41	T	1-Methylnaphthalene		0.235	0.234	0.4	119	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.206	-0.5	118	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.229	3.4	106	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.246	2.0	108	0.00
45	S	2-Fluorobiphenyl		0.866	0.791	8.7	108	0.00

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.662	7.4	110	0.00
47	T	2-Nitroaniline		0.173	0.179	-3.5	115	0.00
48	T	1,4-Dinitrobenzene		0.087	0.094	-8.0	139	0.00
49	T	1,3-Dinitrobenzene		0.109	0.109	0.0	124	0.00
50	T	Dimethyl phthalate		0.839	0.773	7.9	107	0.00
51	T	Acenaphthylene		1.079	1.027	4.8	110	0.00
52	T	2,6-Dinitrotoluene		0.153	0.157	-2.6	111	0.00
53	T	1,2-Dinitrobenzene		0.068	0.071	-4.4	113	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	103	0.00
63	T	3-Nitroaniline		0.259	0.296	-14.3	119	0.00
64	T	Acenaphthene		1.081	1.042	3.6	110	0.00
65	T	2,4-Dinitrophenol	*	5.000	5.367	-7.3	138	0.00
66	T	Dibenzofuran		1.757	1.703	3.1	109	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.815	3.7	117	0.00
68	T	4-Nitrophenol		0.221	0.248	-12.2	123	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.334	-5.0	107	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.321	-2.2	103	0.00
71	T	Diethyl phthalate		1.301	1.236	5.0	106	0.00
72	T	Fluorene		1.328	1.290	2.9	108	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.643	4.3	108	0.00
74	T	4-Nitroaniline		0.262	0.282	-7.6	116	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.762	4.8	128	0.00
76	T	NDPA/DPA		1.131	1.107	2.1	108	0.00
77	T	Azobenzene		1.259	1.261	-0.2	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.154	9.9	90	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.328	12.8	98	0.00
80	T	Hexachlorobenzene		0.431	0.355	17.6	94	0.00
81	T	Pentachlorophenol		0.252	0.231	8.3	100	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	98	0.00
88	T	Phenanthrene		1.038	1.020	1.7	106	0.00
89	T	Anthracene		1.030	1.032	-0.2	108	0.00
90	T	Carbazole		0.928	0.916	1.3	102	0.00
91	T	Di-n-butylphthalate		1.088	1.002	7.9	94	0.00
92	T	Fluoranthene		1.186	1.154	2.7	104	0.00
93	T	Benzidine		0.721	0.624	13.5	91	0.00
94	T	Pyrene		1.269	1.255	1.1	106	0.00
95	S	4-Terphenyl-d14		0.875	0.778	11.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.039	19.2	95	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	90	0.00
104	T	Benzo(a)anthracene		1.335	1.296	2.9	96	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.429	0.2	89	0.00
106	T	Chrysene		1.276	1.295	-1.5	100	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.400	12.0	92	0.00
108	T	Di-n-octylphthalate	*	5.000	4.131	17.4	89	0.00
109	T	Benzo(b)fluoranthene		1.178	1.166	1.0	95	0.00
110	T	Benzo(k)fluoranthene		1.154	1.101	4.6	90	0.00
111	T	Benzo(a)pyrene		1.025	1.044	-1.9	96	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	83	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.017	-6.8	95	0.00
114	T	Dibenzo(a,h)anthracene		0.953	1.049	-10.1	90	0.00
115	T	Benzo(ghi)perylene		0.928	0.993	-7.0	93	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.095	152	57613	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.566	136	213781	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.336	164	127521	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	10.772	188	248025	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.389	240	210632	4.000	ug/ml	0.00
112) IS1_Perylene-d12	14.842	264	199112	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.884	112	77414	5.027	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 251.35%#			
7) Phenol-d6	5.725	99	98050	5.150	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 257.50%#			
19) Nitrobenzene-d5	6.784	82	92189	5.496	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 549.60%#			
45) 2-Fluorobiphenyl	8.701	172	211252	4.564	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 456.40%#			
78) 2,4,6-Tribromophenol	10.107	330	24470	4.501	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 225.05%#			
95) 4-Terphenyl-d14	12.354	244	241186	4.445	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 444.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.743	74	54792	5.406	ug/ml#	70
3) Pyridine	1.772	79	83312	4.823	ug/ml#	63
5) Aniline	5.666	93	122232	4.954	ug/ml	96
6) 2-Chlorophenol	5.819	128	86698	5.109	ug/ml	95
8) Phenol	5.743	94	106736	5.153	ug/ml	99
9) Bis(2-chloroethyl)ether	5.813	93	86871	5.089	ug/ml#	83
10) 1,3-Dichlorobenzene	6.013	146	103606	4.955	ug/ml	99
11) 1,4-Dichlorobenzene	6.113	146	106105	4.985	ug/ml	99
12) 1,2-Dichlorobenzene	6.301	146	101092	4.923	ug/ml	97
13) Benzyl alcohol	6.325	79	70306	4.879	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.513	45	123760	5.294	ug/ml#	52
15) 2-Methylphenol	6.513	108	74077	4.989	ug/ml	97
16) Hexachloroethane	6.707	117	40763	5.193	ug/ml#	67
17) n-Nitrosodi-n-propylamine	6.666	70	61702	4.872	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.707	108	79385	5.083	ug/ml	97
20) Nitrobenzene	6.801	77	94654	5.491	ug/ml	96
21) Isophorone	7.095	82	159888	4.805	ug/ml	96
22) 2-Nitrophenol	7.172	139	41099	5.352	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.289	107	68633	4.381	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.378	93	109098	5.024	ug/ml	99
25) 2,4-Dichlorophenol	7.442	162	80411	5.104	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.519	180	91493	4.818	ug/ml	97
35) Naphthalene	7.584	128	259665	4.879	ug/ml	99
36) Benzoic Acid	7.389	105	52547	5.412	ug/ml	96
37) 4-Chloroaniline	7.678	65	33528	4.994	ug/ml	93
38) Hexachlorobutadiene	7.760	225	54547	4.845	ug/ml	99
39) p-Chloro-m-cresol	8.219	107	70463	4.842	ug/ml	98
40) 2-Methylnaphthalene	8.313	142	176240	4.790	ug/ml	95
41) 1-Methylnaphthalene	8.407	115	62564	4.987	ug/ml	92
42) Hexachlorocyclopentadiene	8.495	237	55012	5.016	ug/ml	98
43) 2,4,6-Trichlorophenol	8.619	196	61287	4.843	ug/ml	98
44) 2,4,5-Trichlorophenol	8.648	196	65821	4.904	ug/ml	98
46) 2-Chloronaphthalene	8.789	162	176857	4.626	ug/ml	95
47) 2-Nitroaniline	8.913	138	47855	5.175	ug/ml	93
48) 1,4-Dinitrobenzene	9.048	168	25044	5.388	ug/ml	83
49) 1,3-Dinitrobenzene	9.125	168	29223	5.029	ug/ml#	1
50) Dimethyl phthalate	9.125	163	206587	4.609	ug/ml#	98
51) Acenaphthylene	9.195	152	274482	4.758	ug/ml	98
52) 2,6-Dinitrotoluene	9.166	165	42003	5.152	ug/ml	86
53) 1,2-Dinitrobenzene	9.201	168	18854	5.176	ug/ml#	1
63) 3-Nitroaniline	9.319	138	47162	5.701	ug/ml	99
64) Acenaphthene	9.372	154	166061	4.818	ug/ml	91
65) 2,4-Dinitrophenol	9.419	184	24161	5.367	ug/ml#	88
66) Dibenzofuran	9.542	168	271395	4.846	ug/ml	93
67) 2,4-Dinitrotoluene	9.548	165	59072	4.815	ug/ml	94
68) 4-Nitrophenol	9.513	65	39484	5.594	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	9.636	232	53305	5.262	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.678	232	51162	5.114	ug/ml	97
71) Diethyl phthalate	9.819	149	197013	4.749	ug/ml	97
72) Fluorene	9.872	166	205580	4.855	ug/ml	92
73) 4-Chlorophenyl phenyl ...	9.895	204	102548	4.787	ug/ml	88
74) 4-Nitroaniline	9.907	138	44941	5.370	ug/ml#	90
75) 4,6-Dinitro-o-cresol	9.942	198	30953	4.762	ug/ml#	69
76) NDPA/DPA	10.013	169	176383	4.890	ug/ml	94
77) Azobenzene	10.048	77	200942	5.006	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.366	248	52284	4.357	ug/ml	90
80) Hexachlorobenzene	10.413	284	56517	4.114	ug/ml	92
81) Pentachlorophenol	10.607	266	36804	4.590	ug/ml	99
88) Phenanthrene	10.795	178	316307	4.914	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	10.842	178	319909	5.010	ug/ml	99
90)	Carbazole	11.013	167	283974	4.935	ug/ml	98
91)	Di-n-butylphthalate	11.419	149	310588	4.603	ug/ml	99
92)	Fluoranthene	11.942	202	357761	4.865	ug/ml#	92
93)	Benzidine	12.107	184	193387	4.328	ug/ml#	94
94)	Pyrene	12.154	202	388972	4.944	ug/ml	99
96)	Butyl benzyl phthalate	12.883	149	126626	4.039	ug/ml	95
104)	Benzo(a)anthracene	13.377	228	341105	4.853	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.383	252	112967	4.991	ug/ml	98
106)	Chrysene	13.413	228	340864	5.075	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.524	149	198509	4.400	ug/ml#	94
108)	Di-n-octylphthalate	14.201	149	299308	4.131	ug/ml#	75
109)	Benzo(b)fluoranthene	14.477	252	306948	4.948	ug/ml#	95
110)	Benzo(k)fluoranthene	14.501	252	289901	4.771	ug/ml#	94
111)	Benzo(a)pyrene	14.783	252	274819	5.090	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.795	276	253204M6	5.343	ug/mL	
114)	Dibenzo(a,h)anthracene	15.824	278	261031	5.502	ug/ml#	93
115)	Benzo(ghi)perylene	16.024	276	247240	5.353	ug/ml#	92

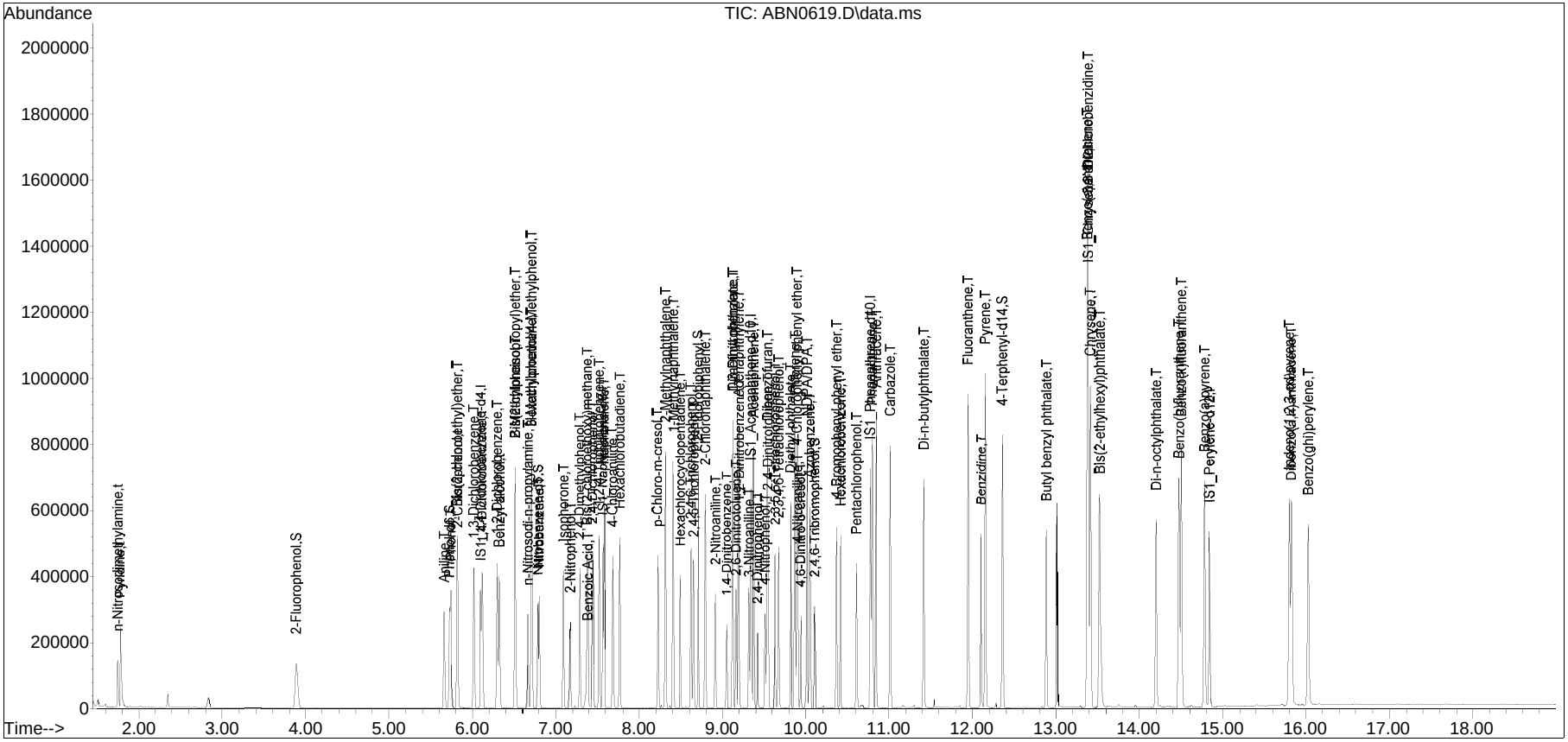
(#) = qualifier out of range (m) = manual integration (+) = signals summed

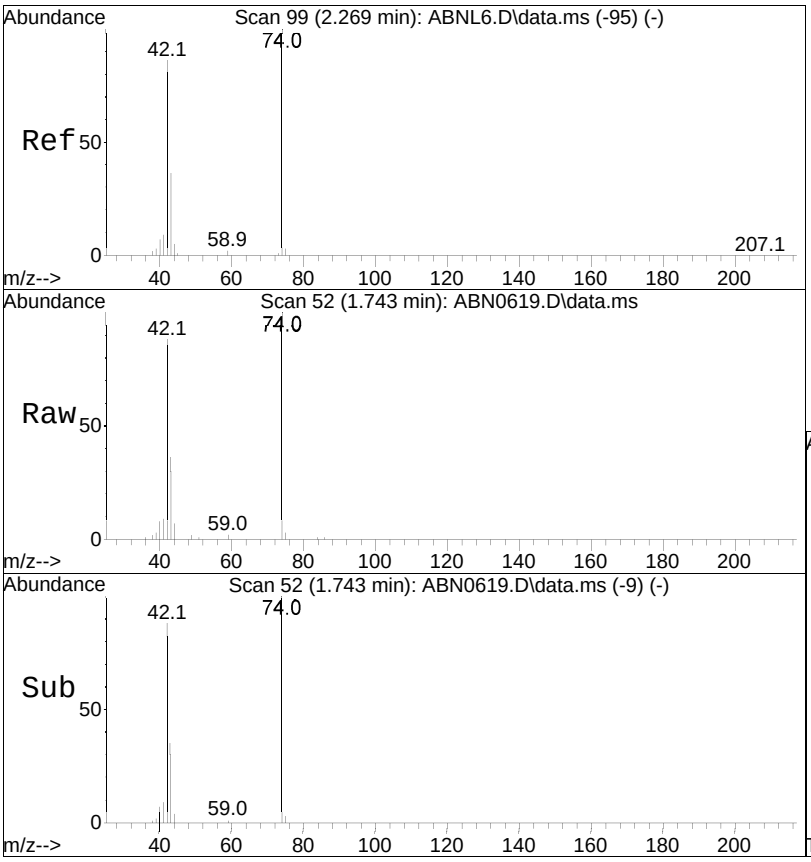
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ABN0619.D
Acq On : 19 Jun 2024 10:07 am
Operator : SV107:im
Sample : WG1936476-3,32,,ABN 10805 HNY0517C
Misc : WG1936476,,ical21169
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Jun 19 11:07:16 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:07:50 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

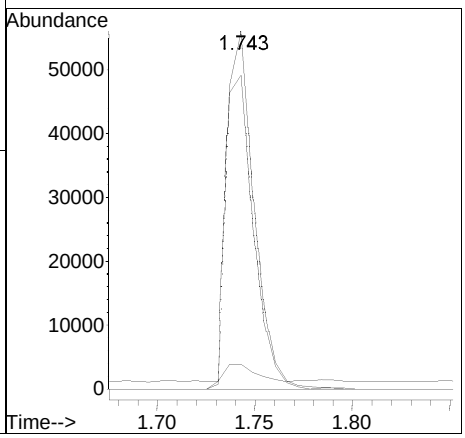


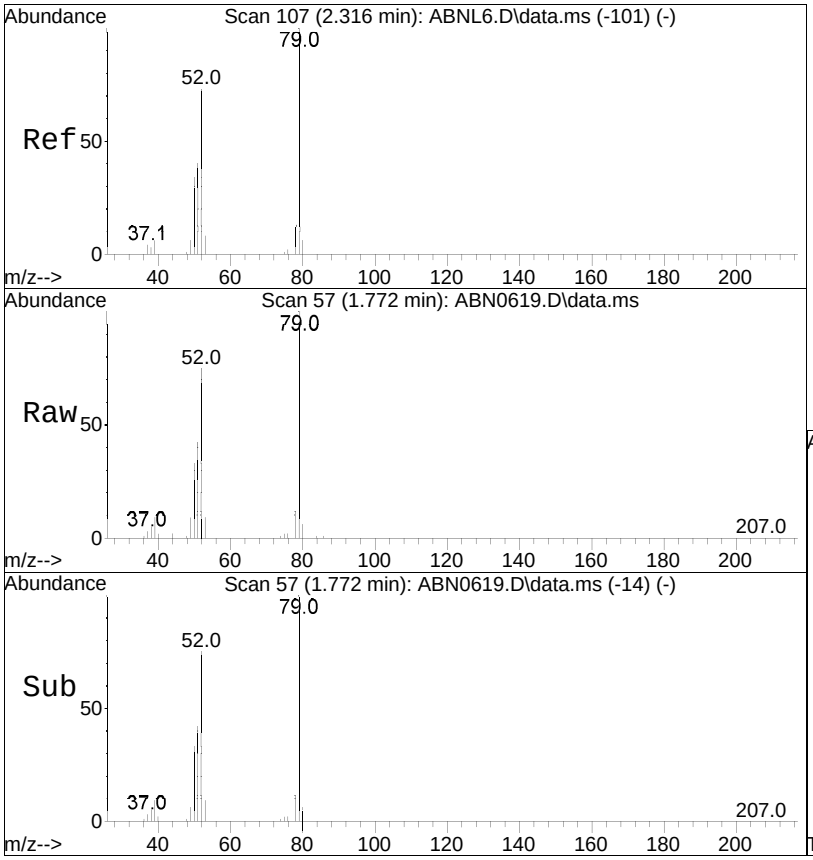


#2
n-Nitrosodimethylamine
Concen: 5.41 ug/ml
RT: 1.743 min Scan# 52
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 74 Resp: 54792

Ion	Ratio	Lower	Upper
74	100		
42	89.5	100.0	150.0#
44	5.2	6.7	10.1#

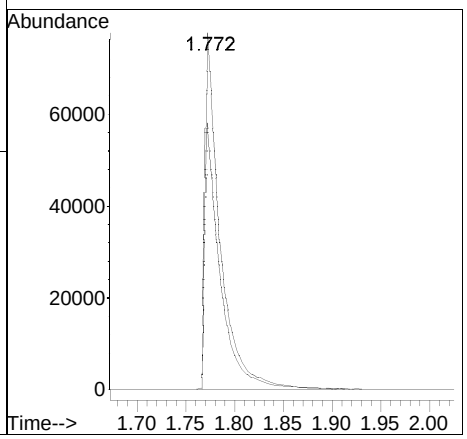


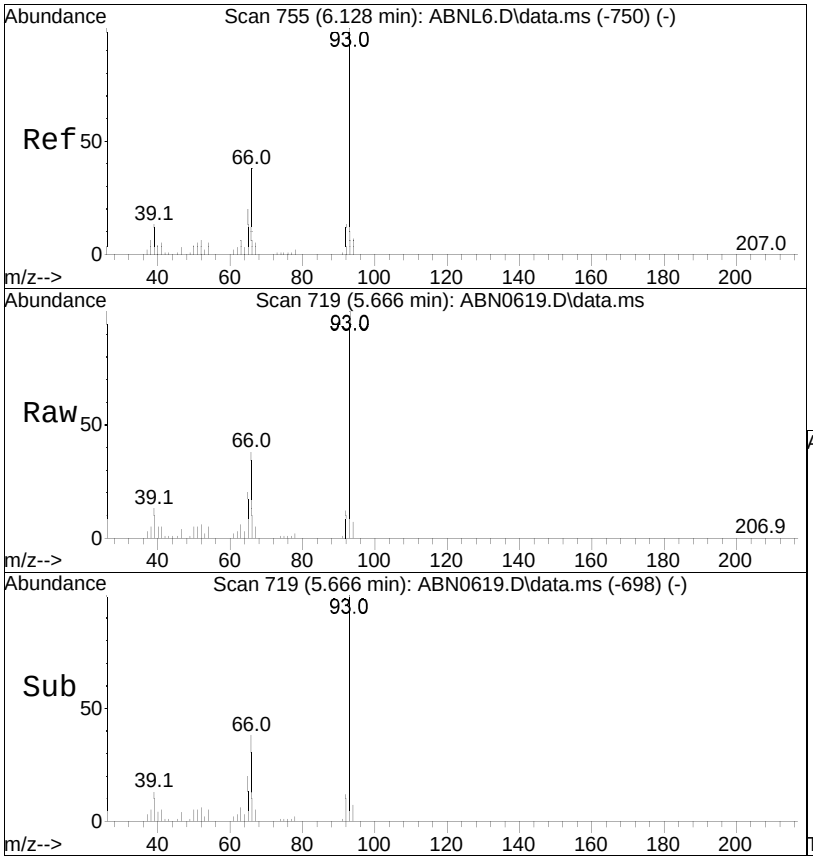


#3
Pyridine
Concen: 4.82 ug/ml
RT: 1.772 min Scan# 57
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 79 Resp: 83312

Ion	Ratio	Lower	Upper
79	100		
52	75.7	93.1	139.7#

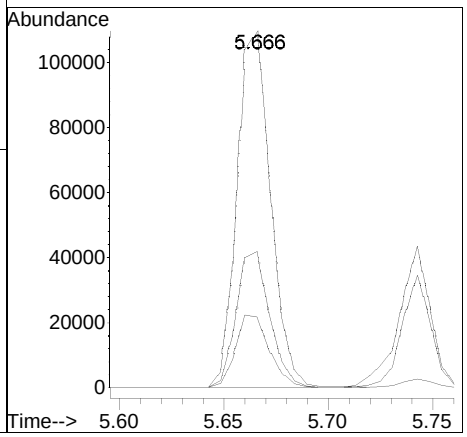


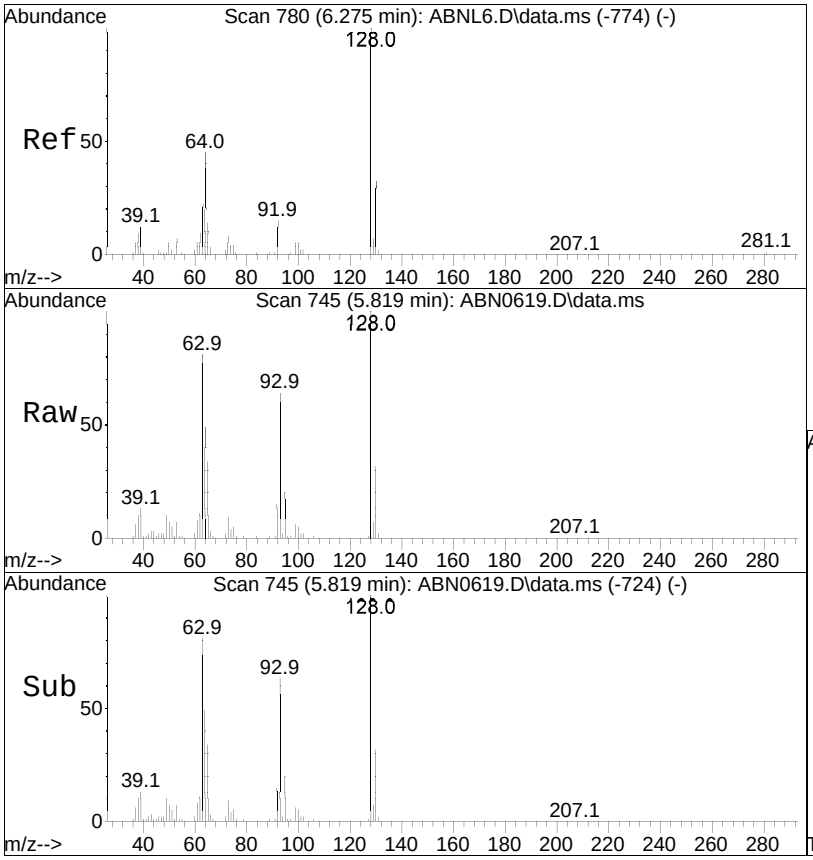


#5
Aniline
Concen: 4.95 ug/ml
RT: 5.666 min Scan# 719
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 93 Resp: 122232

Ion	Ratio	Lower	Upper
93	100		
66	38.3	32.6	49.0
65	20.5	17.6	26.4

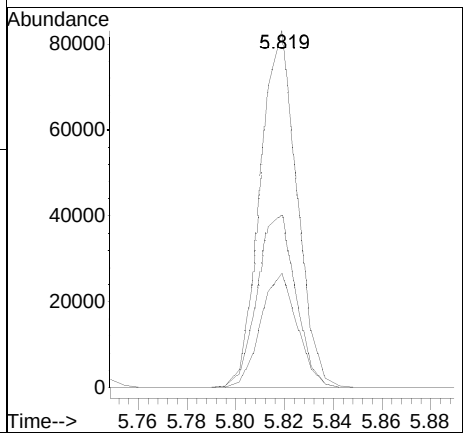


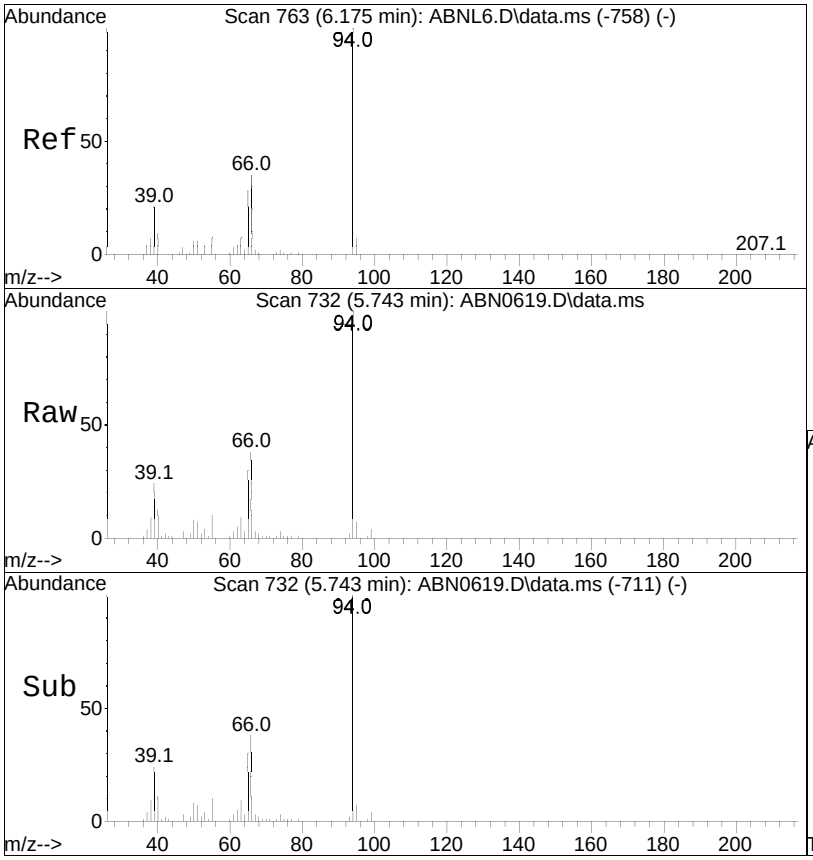


#6
2-Chlorophenol
Concen: 5.11 ug/ml
RT: 5.819 min Scan# 745
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:128 Resp: 86698

Ion	Ratio	Lower	Upper
128	100		
64	50.7	45.1	67.7
130	32.1	26.2	39.4

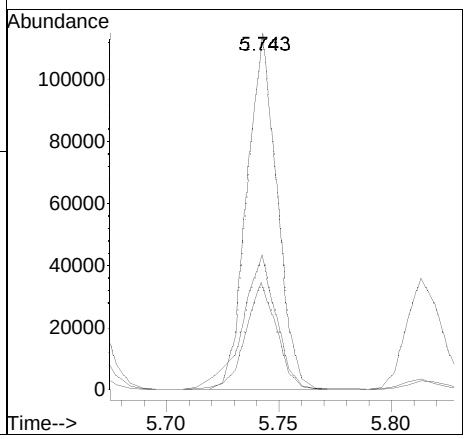


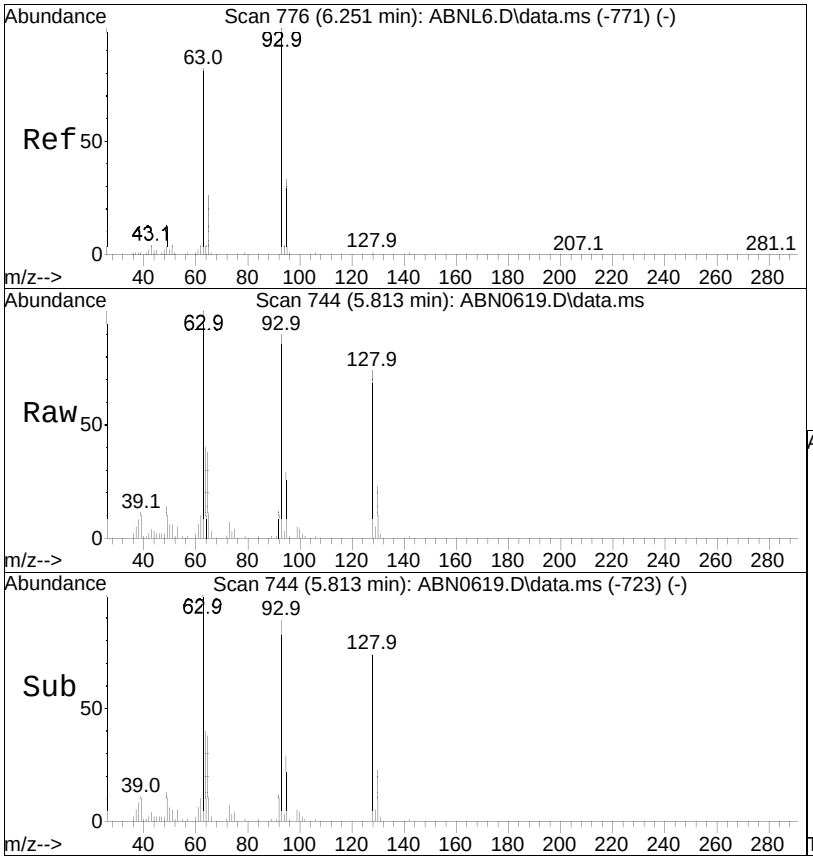


#8
Phenol
Concen: 5.15 ug/ml
RT: 5.743 min Scan# 732
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 94 Resp: 106736

Ion	Ratio	Lower	Upper
94	100		
65	31.1	26.0	39.0
66	42.6	33.8	50.8

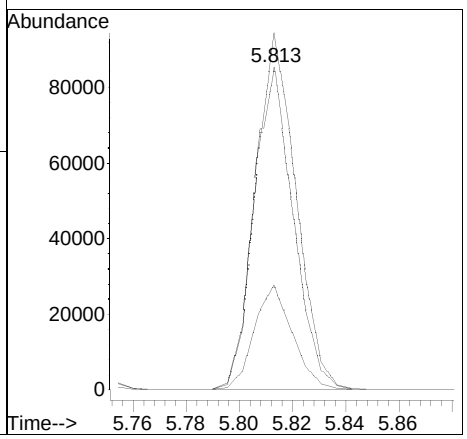


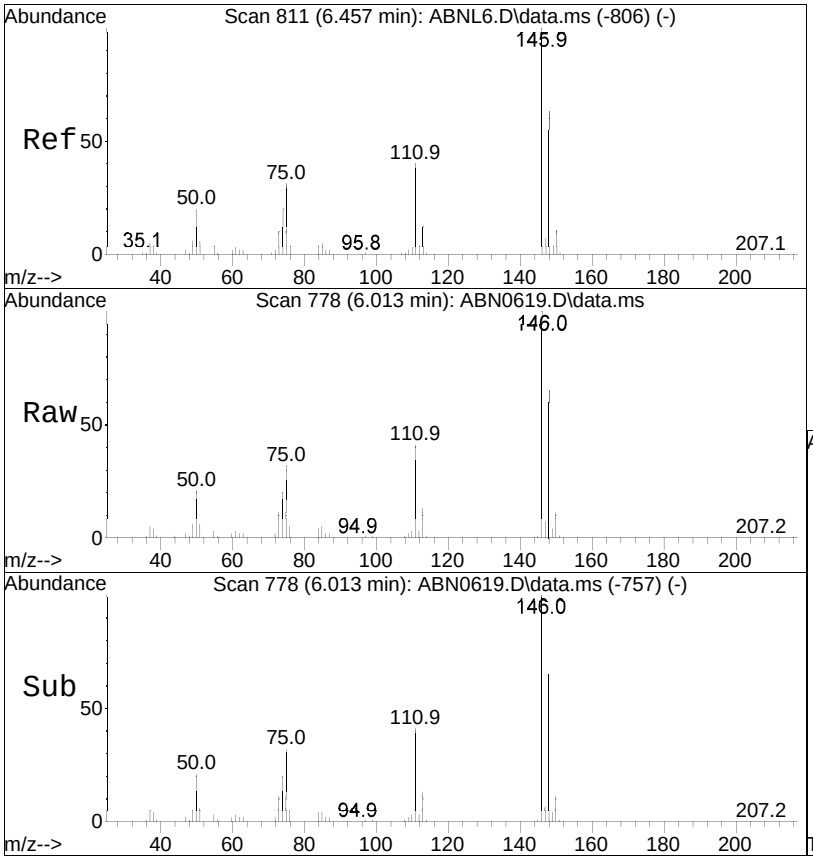


#9
Bis(2-chloroethyl)ether
Concen: 5.09 ug/ml
RT: 5.813 min Scan# 744
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 93 Resp: 86871

Ion	Ratio	Lower	Upper
93	100		
63	115.0	74.6	111.8#
95	31.8	25.9	38.9

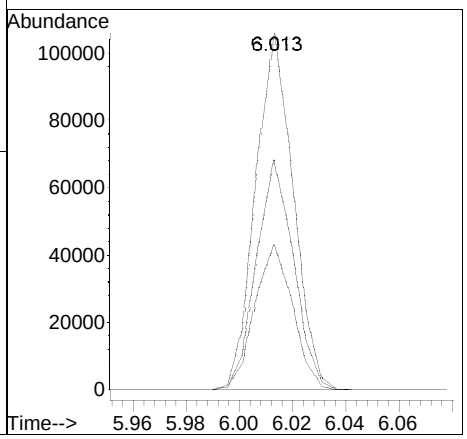


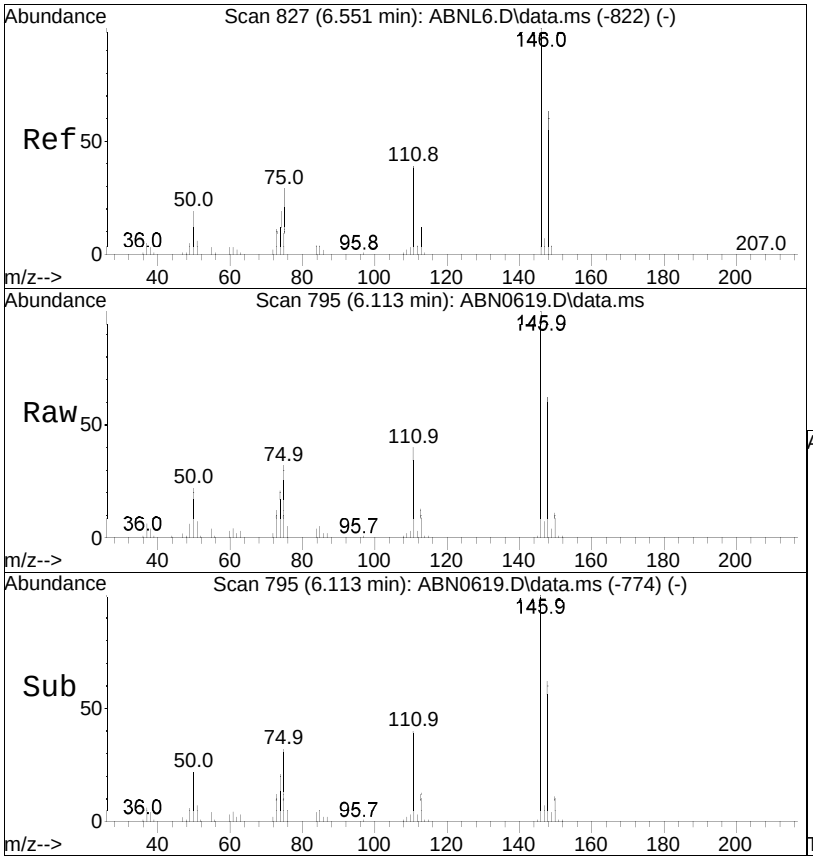


#10
1,3-Dichlorobenzene
Concen: 4.95 ug/ml
RT: 6.013 min Scan# 778
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:146 Resp: 103606

Ion	Ratio	Lower	Upper
146	100		
111	41.2	34.3	51.5
148	63.7	50.8	76.2

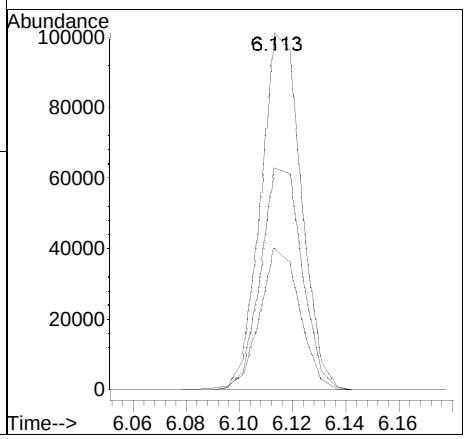


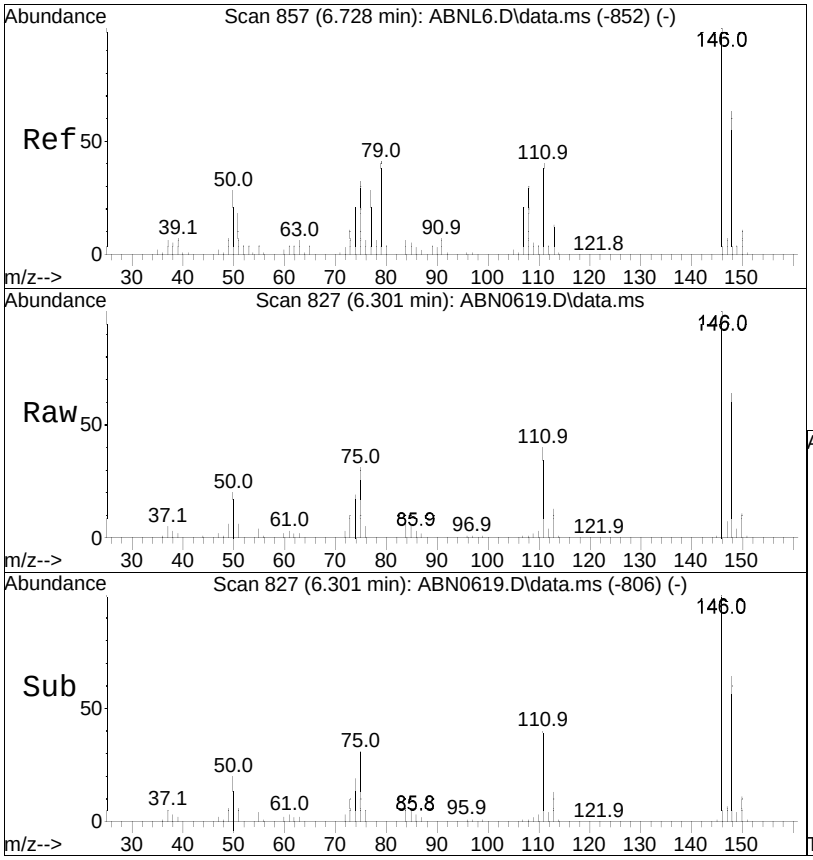


#11
1,4-Dichlorobenzene
Concen: 4.99 ug/ml
RT: 6.113 min Scan# 795
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:146 Resp: 106105

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.7	76.1
111	39.7	33.4	50.0

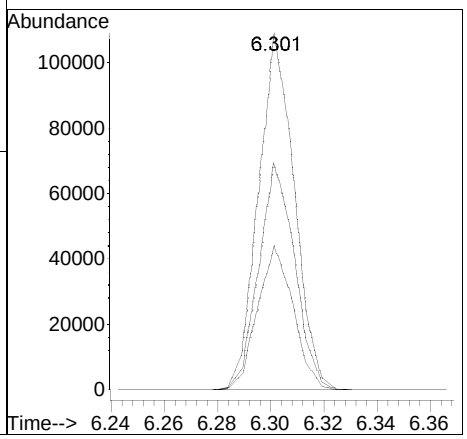


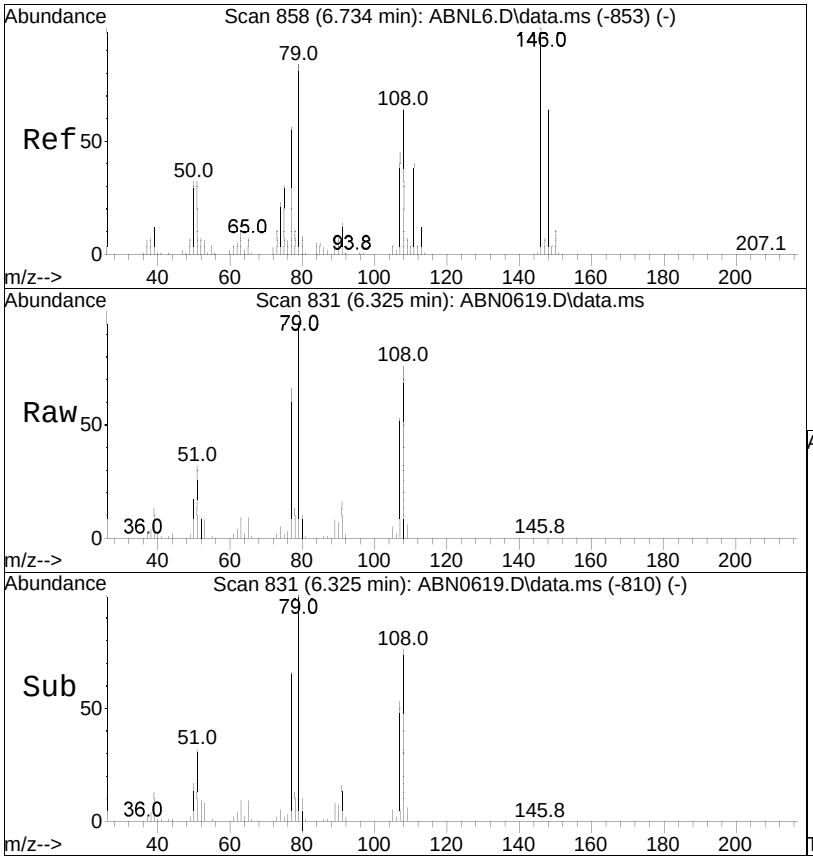


#12
1,2-Dichlorobenzene
Concen: 4.92 ug/ml
RT: 6.301 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:146 Resp: 101092

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	63.7	50.2	75.4

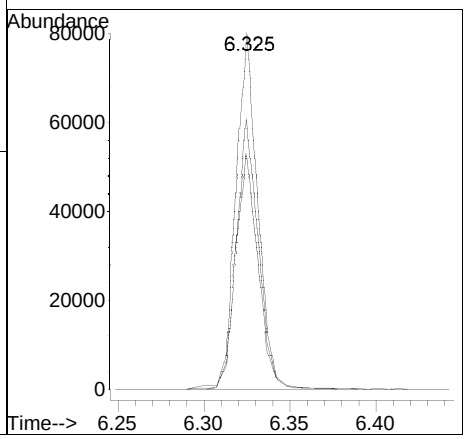


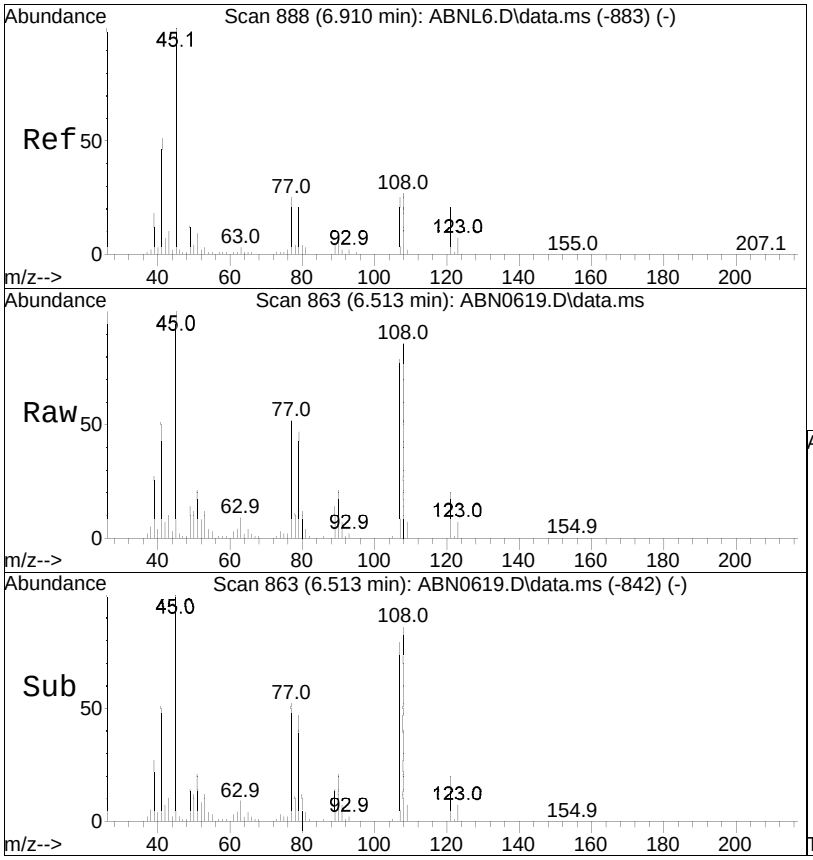


#13
Benzyl alcohol
Concen: 4.88 ug/ml
RT: 6.325 min Scan# 831
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 79 Resp: 70306

Ion	Ratio	Lower	Upper
79	100		
77	68.9	54.9	82.3
108	77.0	63.1	94.7

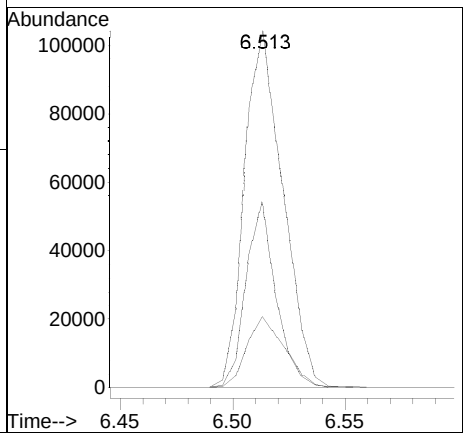


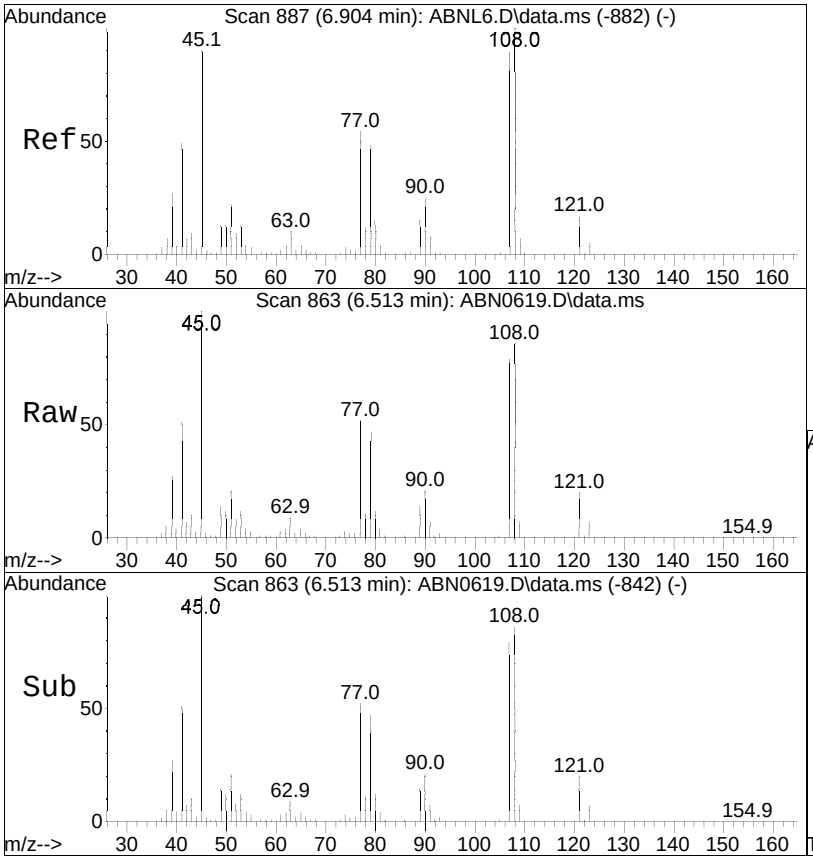


#14
Bis(2-chloroisopropyl)ether
Concen: 5.29 ug/ml
RT: 6.513 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 45 Resp: 123760

Ion	Ratio	Lower	Upper
45	100		
121	19.5	9.8	14.6#
77	40.9	6.1	9.1#

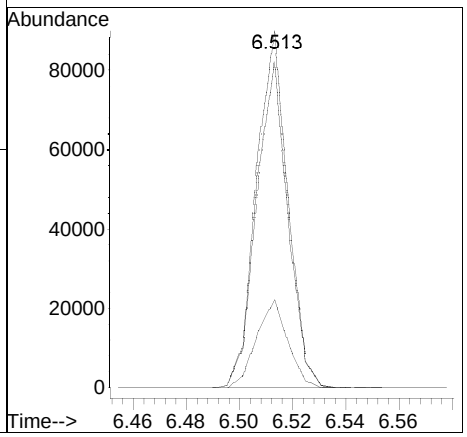


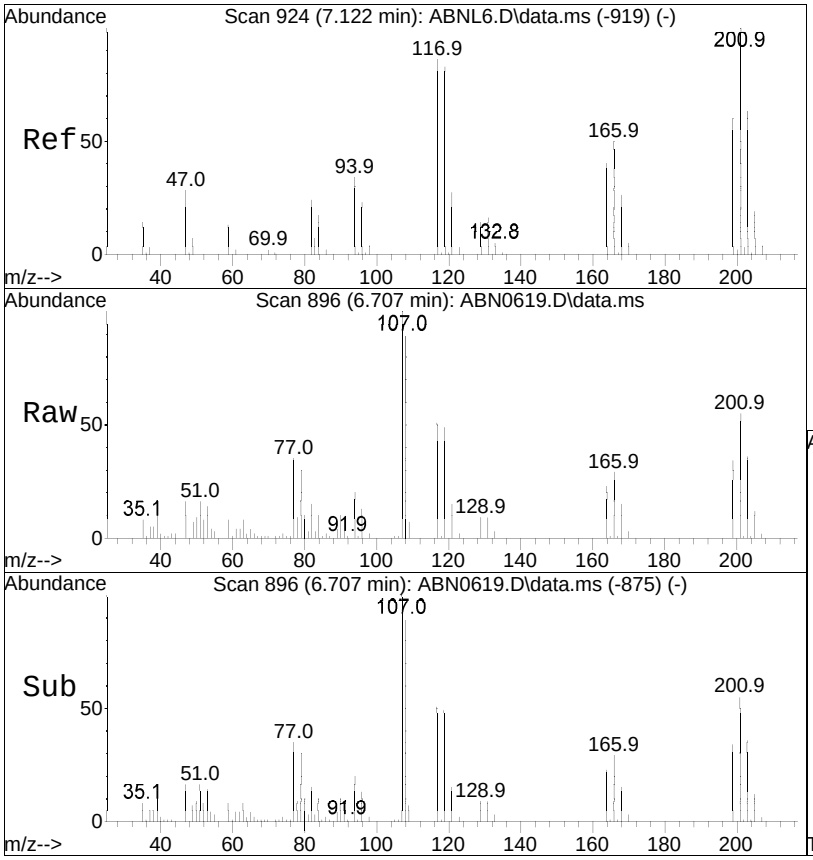


#15
2-Methylphenol
Concen: 4.99 ug/ml
RT: 6.513 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:108 Resp: 74077

Ion	Ratio	Lower	Upper
108	100		
107	91.0	70.7	106.1
90	24.5	18.7	28.1

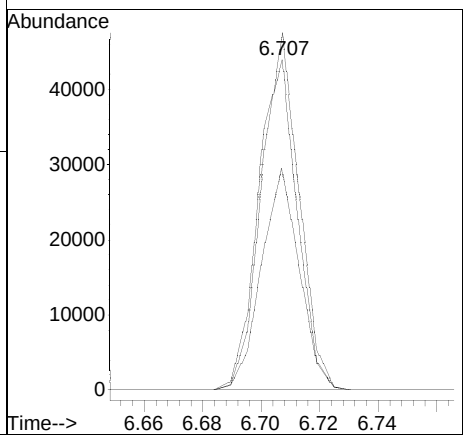


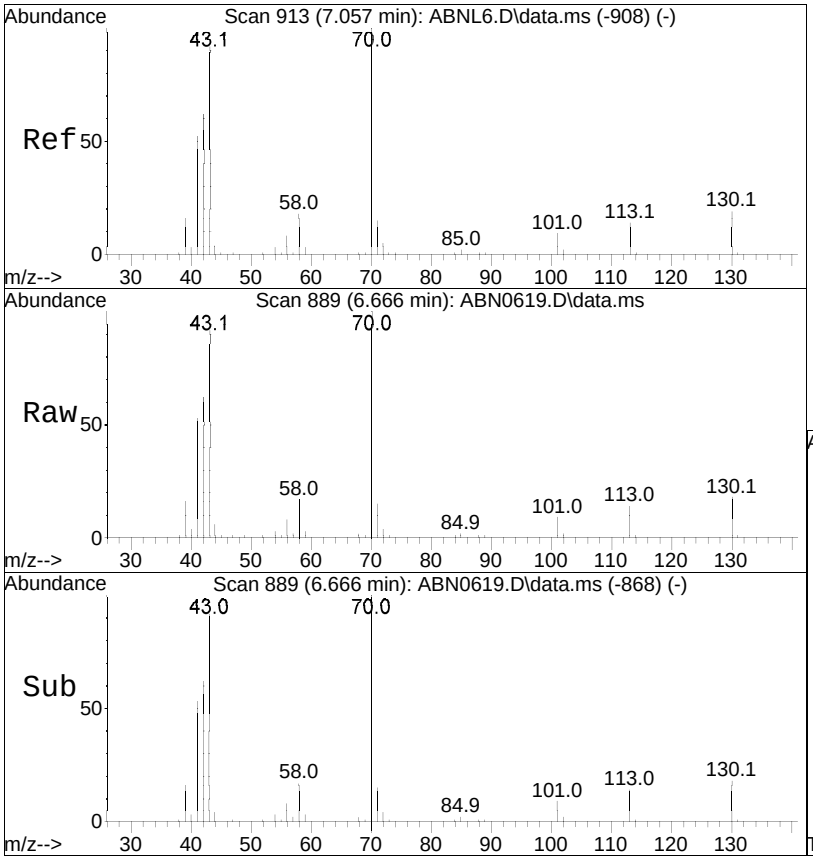


#16
Hexachloroethane
Concen: 5.19 ug/ml
RT: 6.707 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:117 Resp: 40763

Ion	Ratio	Lower	Upper
117	100		
201	103.7	58.6	87.8#
199	65.1	36.9	55.3#

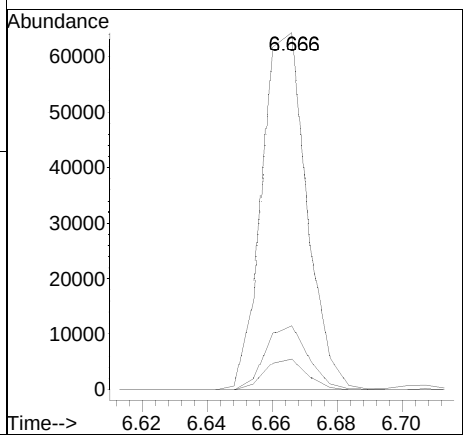


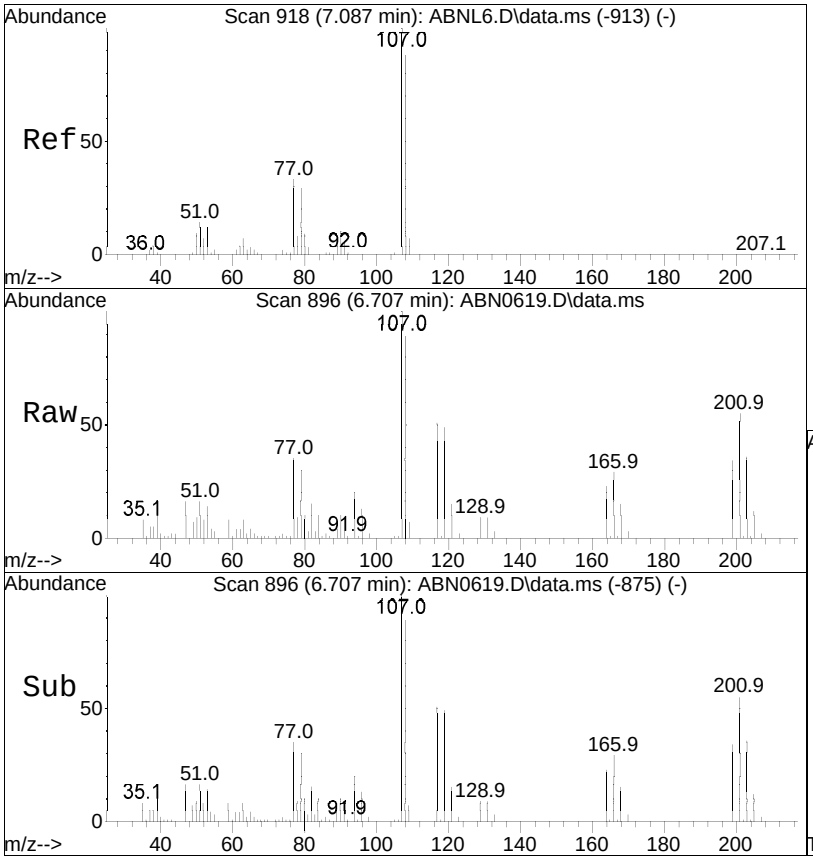


#17
n-Nitrosodi-n-propylamine
Concen: 4.87 ug/ml
RT: 6.666 min Scan# 889
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 70 Resp: 61702

Ion	Ratio	Lower	Upper
70	100		
130	17.3	18.2	27.4#
101	8.1	7.8	11.8

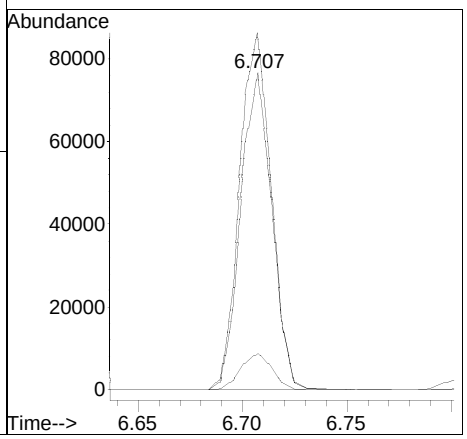


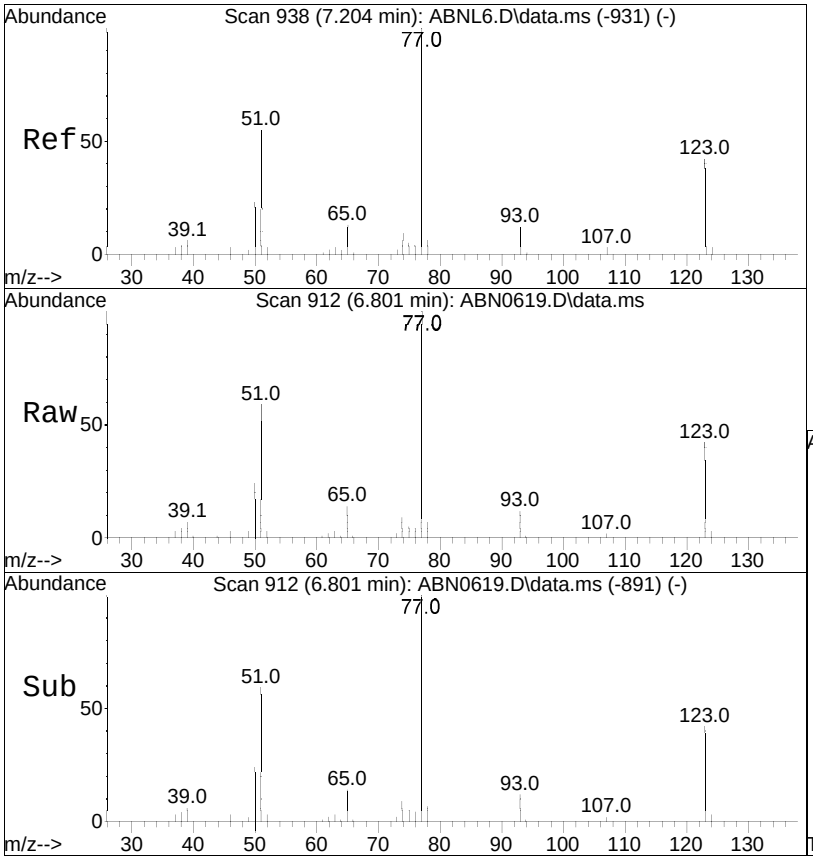


#18
3-Methylphenol/4-Methylphenol
Concen: 5.08 ug/ml
RT: 6.707 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:108 Resp: 79385

Ion	Ratio	Lower	Upper
108	100		
107	114.5	88.6	132.8
90	11.6	8.8	13.2

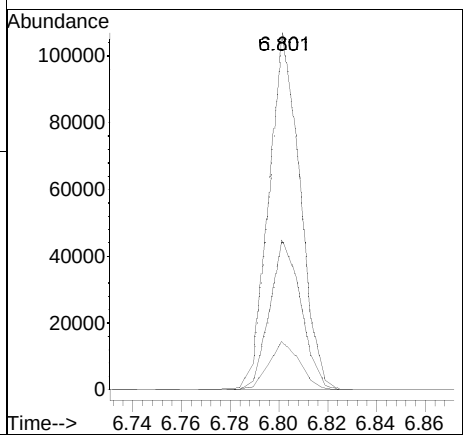


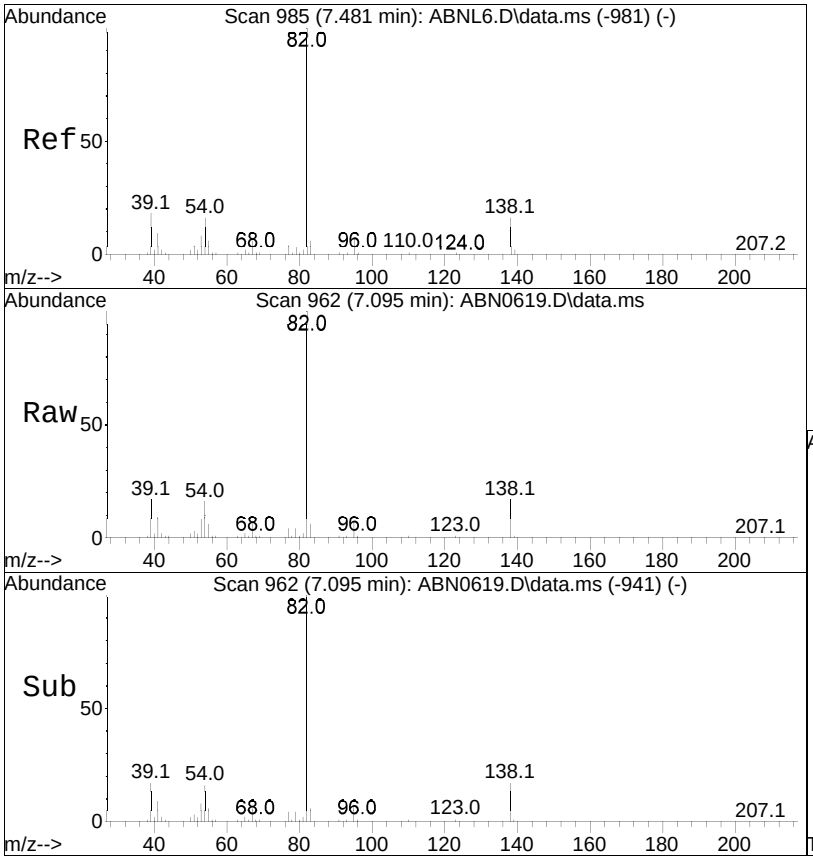


#20
Nitrobenzene
Concen: 5.49 ug/ml
RT: 6.801 min Scan# 912
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 77 Resp: 94654

Ion	Ratio	Lower	Upper
77	100		
123	42.3	36.3	54.5
65	13.7	11.6	17.4

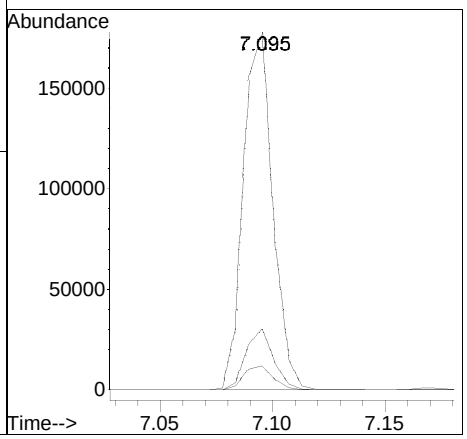


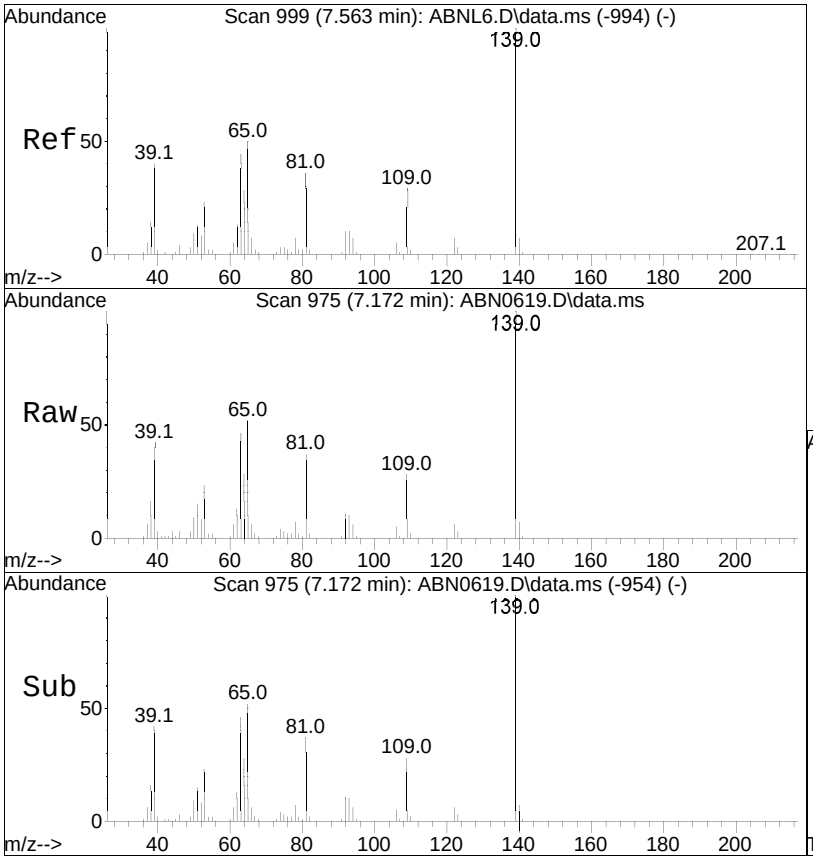


#21
Isophorone
Concen: 4.81 ug/ml
RT: 7.095 min Scan# 962
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 82 Resp: 159888

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	6.9	5.2	7.8

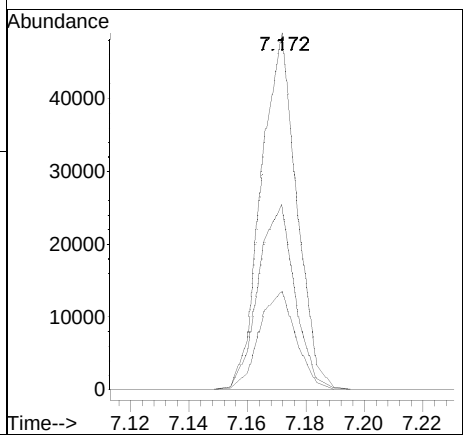


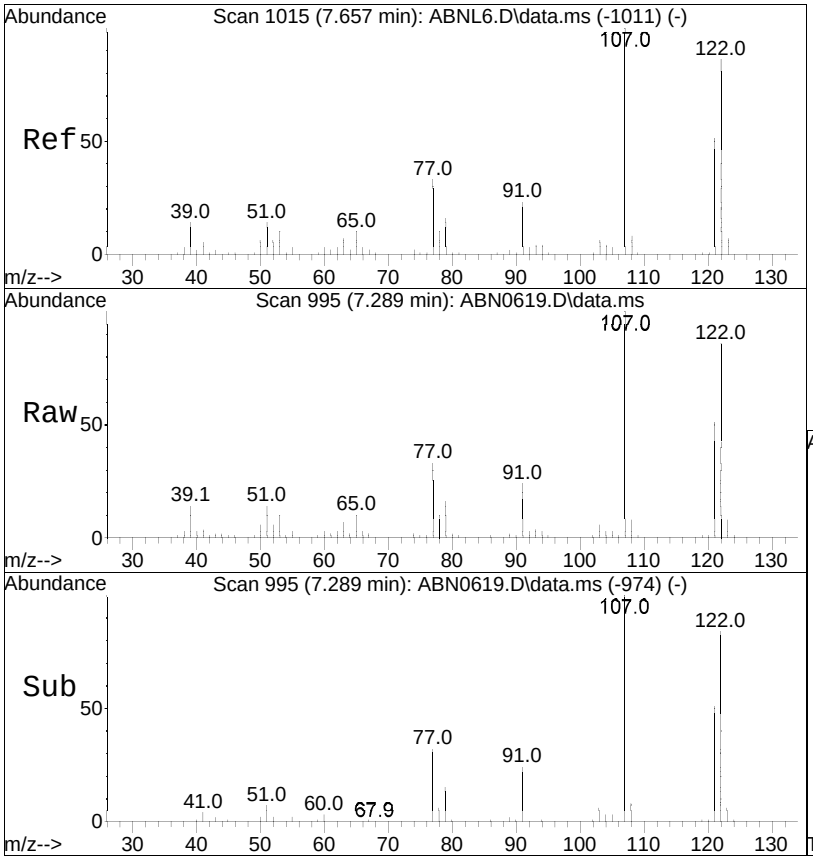


#22
2-Nitrophenol
Concen: 5.35 ug/ml
RT: 7.172 min Scan# 975
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:139 Resp: 41099

Ion	Ratio	Lower	Upper
139	100		
109	28.8	19.4	29.0
65	53.7	46.1	69.1

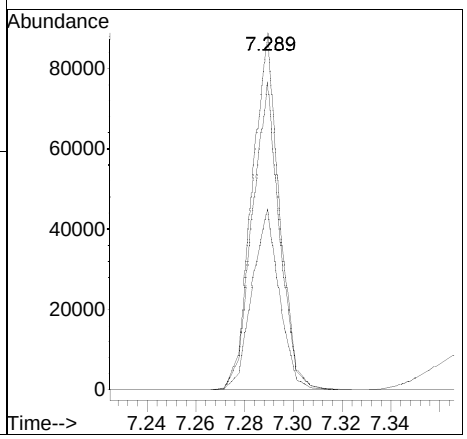


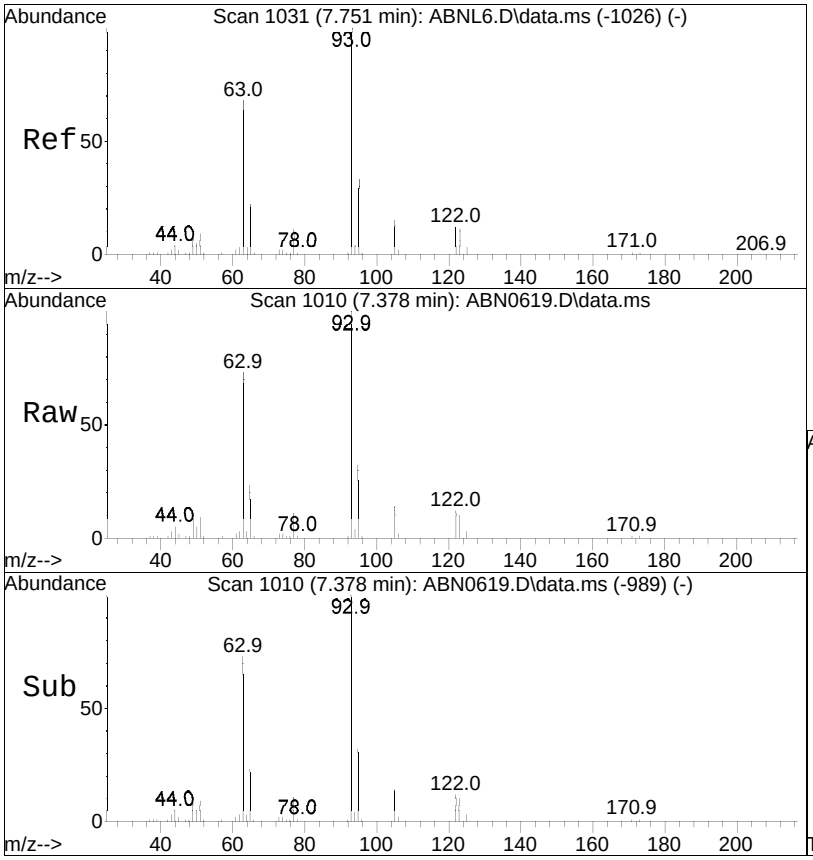


#23
2,4-Dimethylphenol
Concen: 4.38 ug/ml
RT: 7.289 min Scan# 995
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:107 Resp: 68633

Ion	Ratio	Lower	Upper
107	100		
121	50.9	40.0	60.0
122	86.1	70.2	105.4

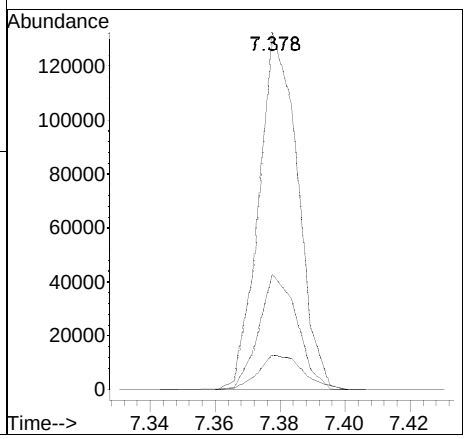


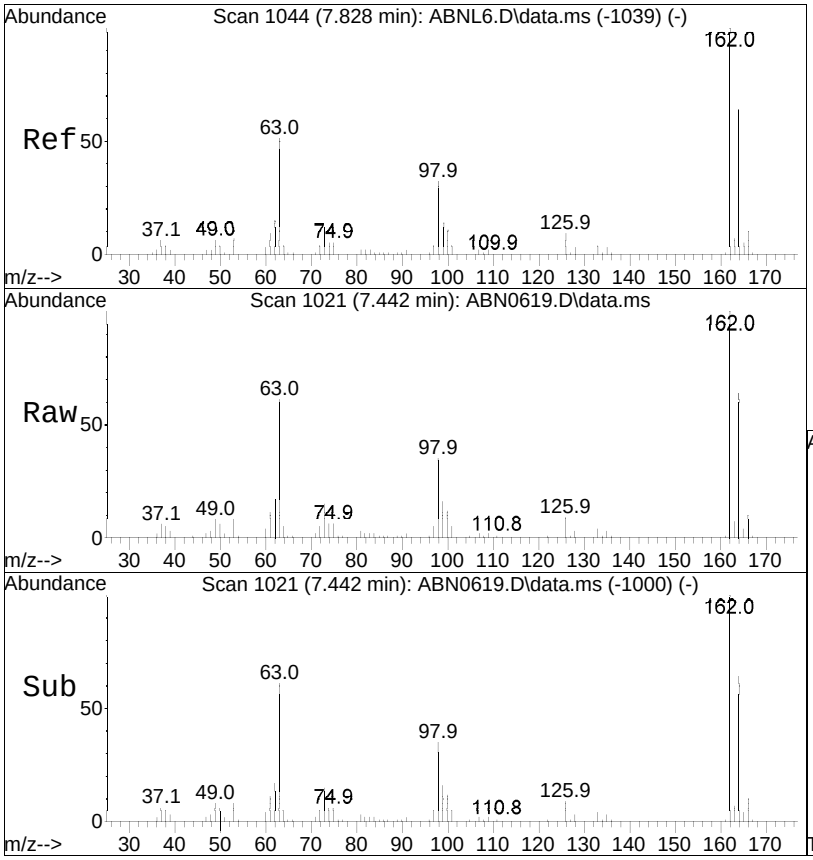


#24
Bis(2-chloroethoxy)methane
Concen: 5.02 ug/ml
RT: 7.378 min Scan# 1010
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 93 Resp: 109098

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	12.0	10.1	15.1

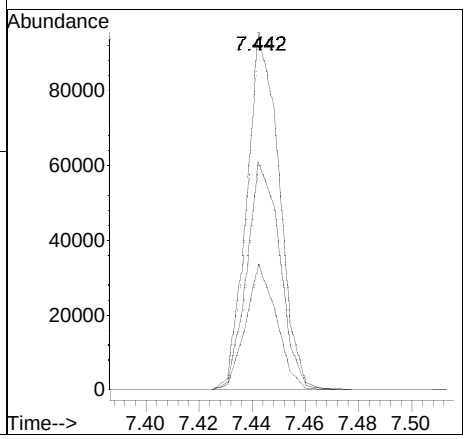


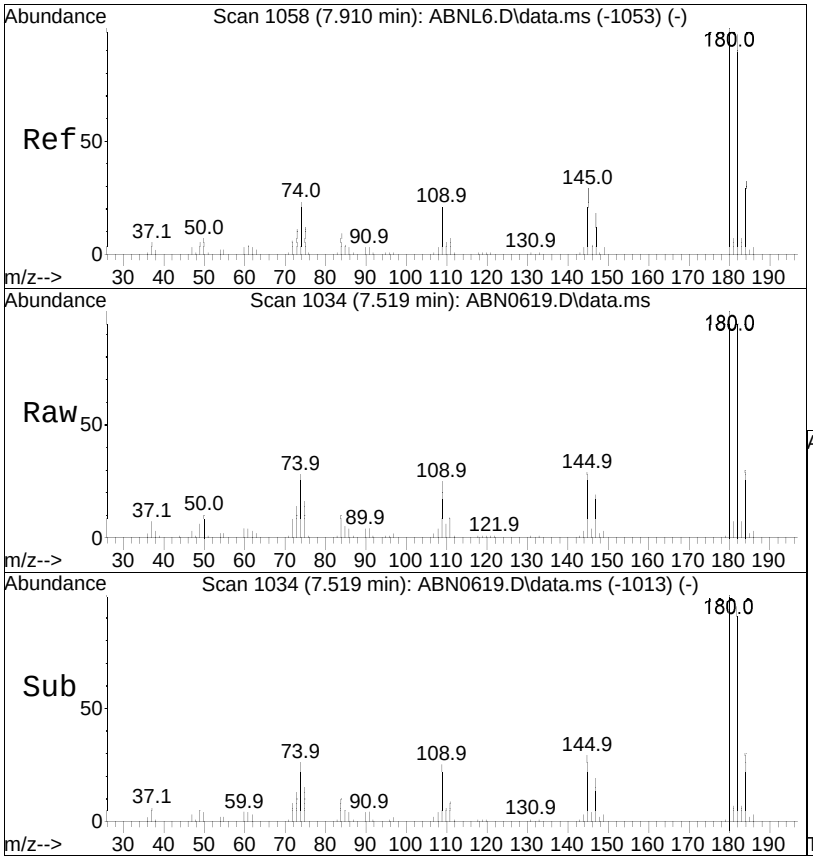


#25
2,4-Dichlorophenol
Concen: 5.10 ug/ml
RT: 7.442 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:162 Resp: 80411

Ion	Ratio	Lower	Upper
162	100		
164	64.8	51.0	76.4
98	33.6	32.2	48.2

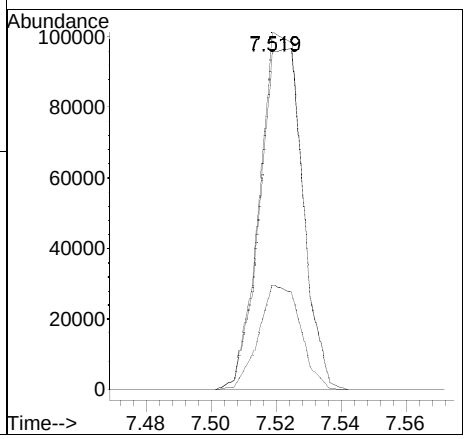


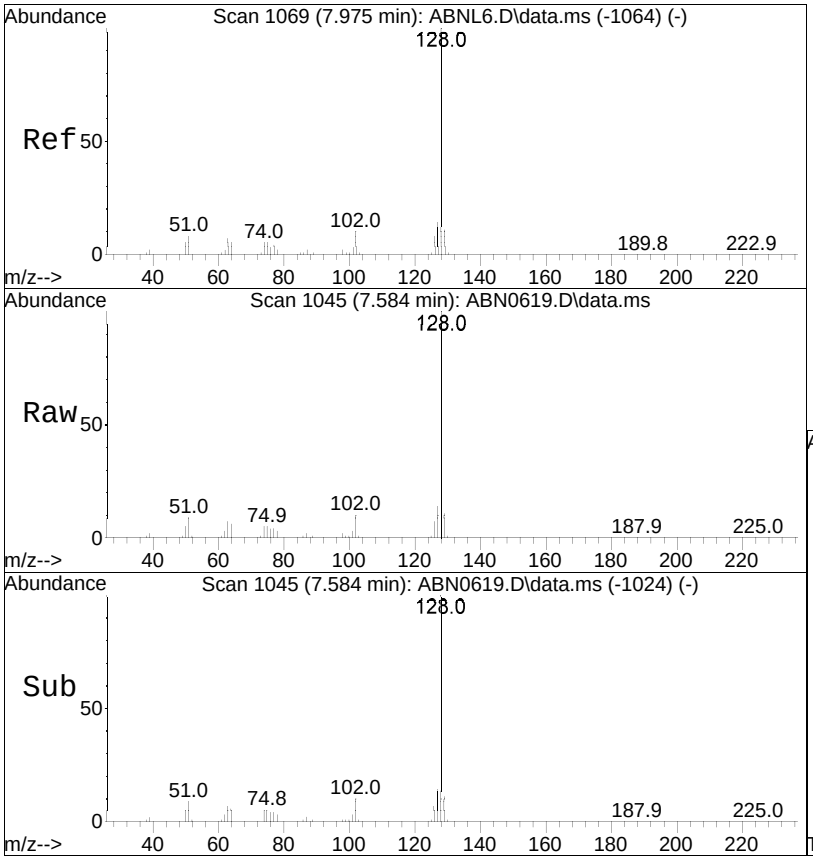


#26
1,2,4-Trichlorobenzene
Concen: 4.82 ug/ml
RT: 7.519 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:180 Resp: 91493

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.0	114.0
145	29.0	25.7	38.5

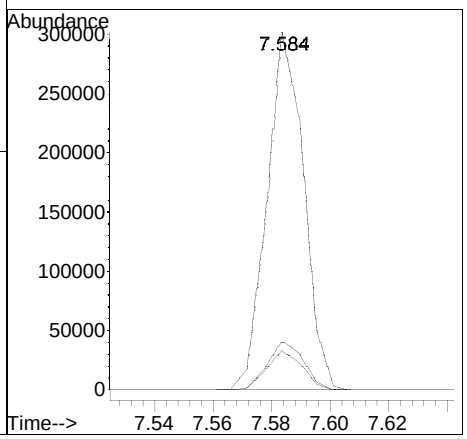


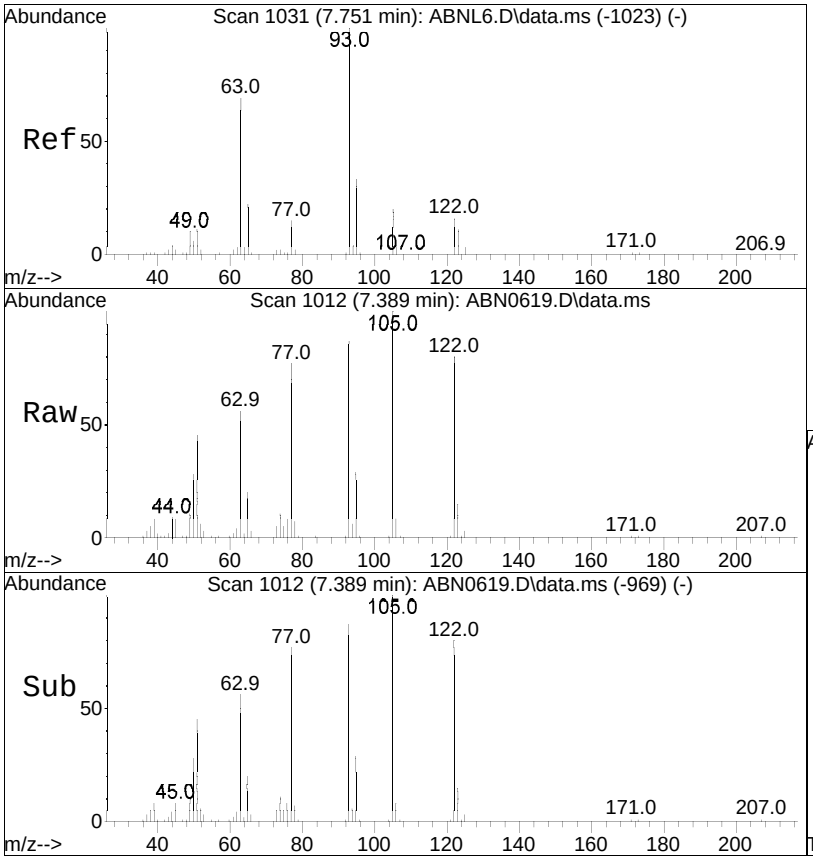


#35
Naphthalene
Concen: 4.88 ug/ml
RT: 7.584 min Scan# 1045
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:128 Resp: 259665

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.5	10.3	15.5

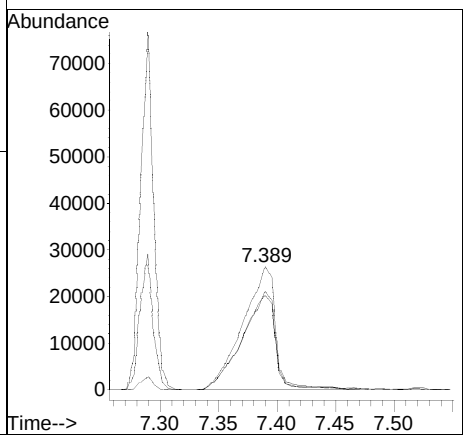


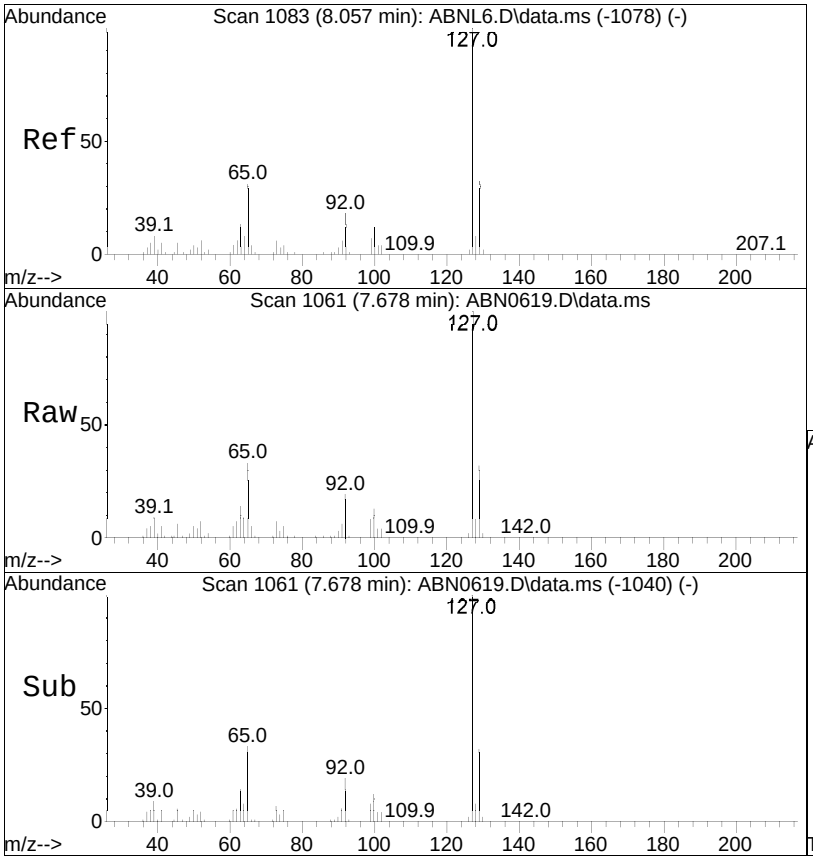


#36
Benzoic Acid
Concen: 5.41 ug/ml
RT: 7.389 min Scan# 1012
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:105 Resp: 52547

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	76.7	60.1	90.1

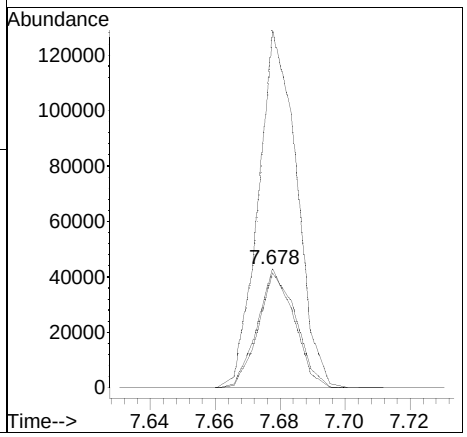


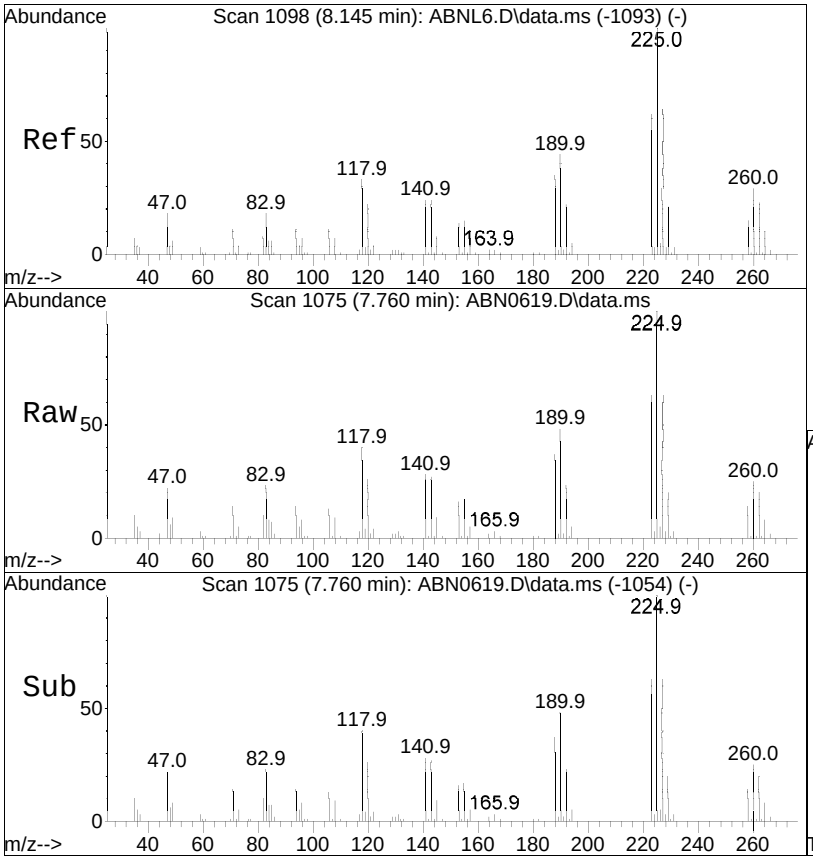


#37
4-Chloroaniline
Concen: 4.99 ug/ml
RT: 7.678 min Scan# 1061
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 65 Resp: 33528

Ion	Ratio	Lower	Upper
65	100		
127	312.5	237.6	356.4
129	100.4	76.3	114.5

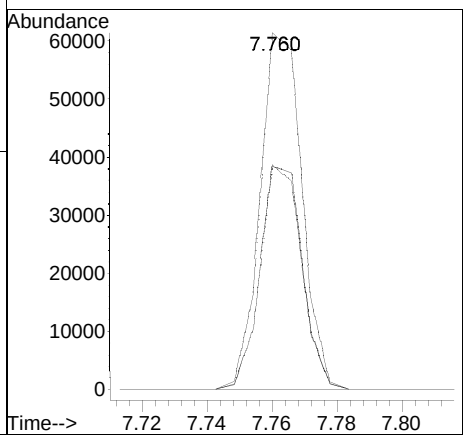


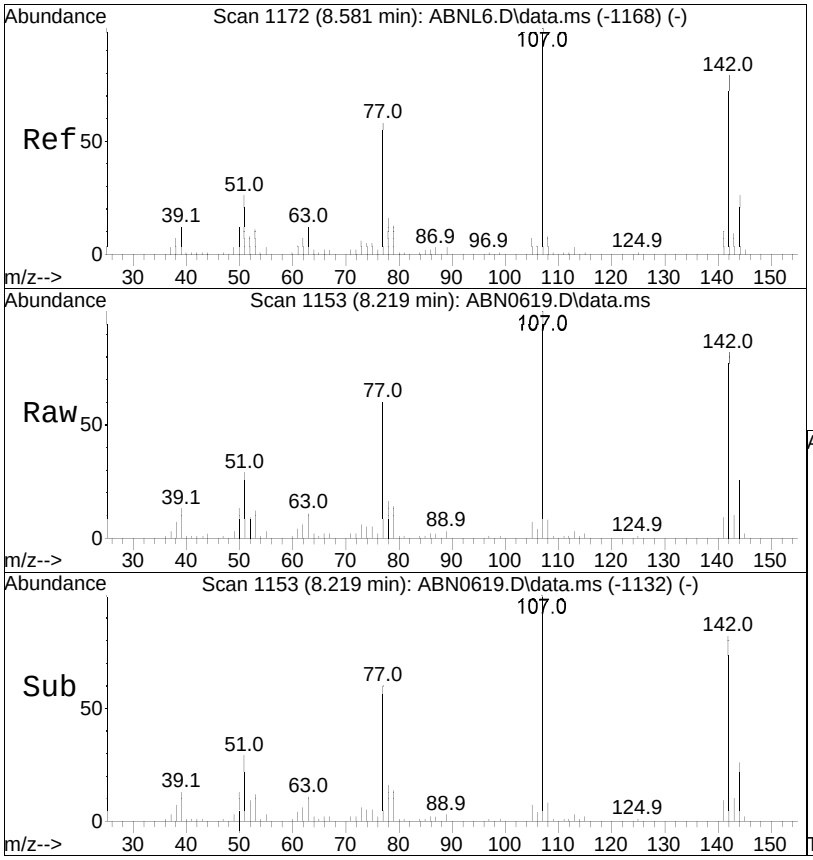


#38
Hexachlorobutadiene
Concen: 4.85 ug/ml
RT: 7.760 min Scan# 1075
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:225 Resp: 54547

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.3	75.5
227	63.5	52.2	78.2

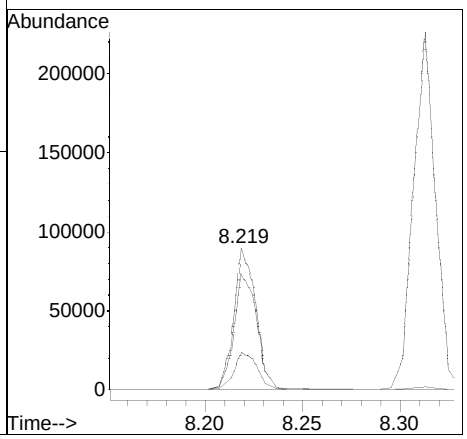


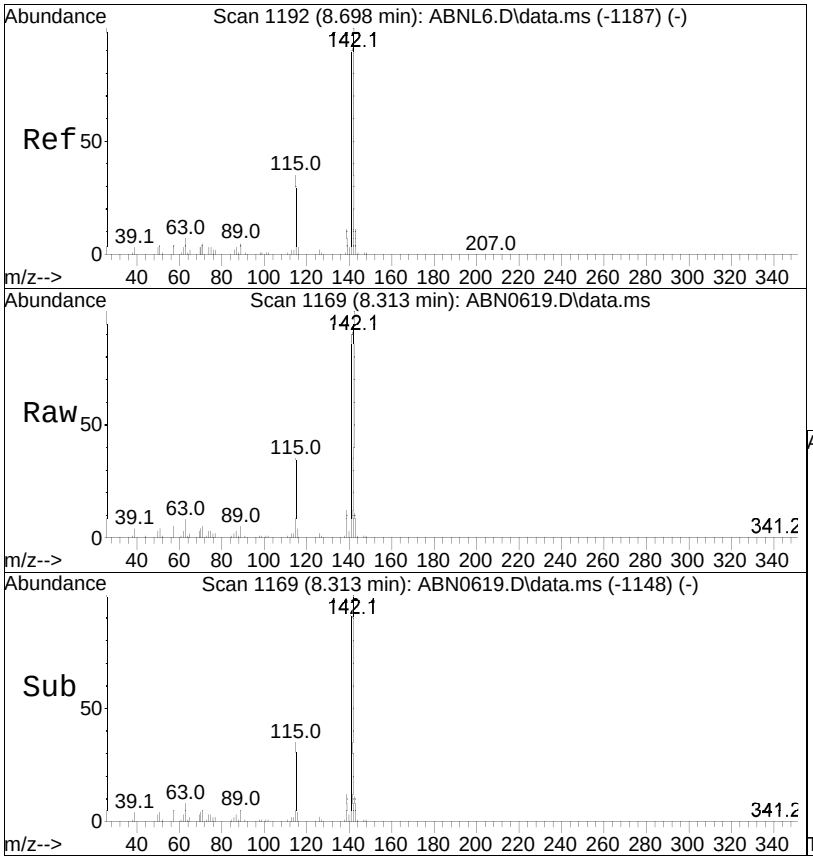


#39
p-Chloro-m-cresol
Concen: 4.84 ug/ml
RT: 8.219 min Scan# 1153
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:107 Resp: 70463

Ion	Ratio	Lower	Upper
107	100		
144	27.3	20.9	31.3
142	84.8	66.1	99.1

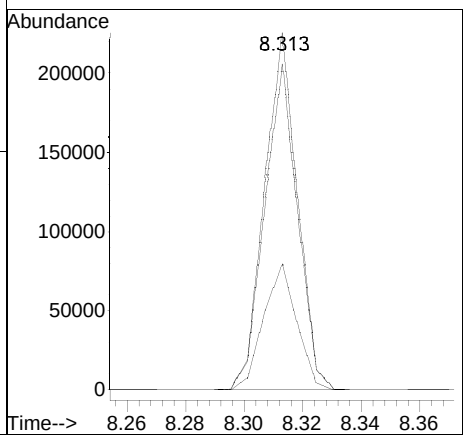


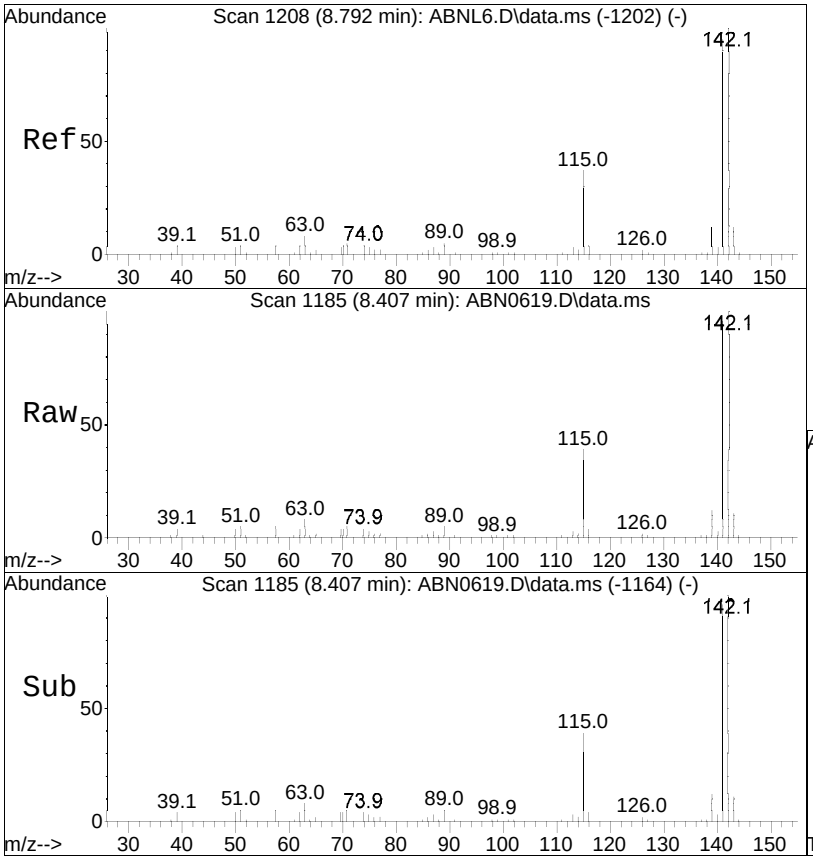


#40
2-Methylnaphthalene
Concen: 4.79 ug/ml
RT: 8.313 min Scan# 1169
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:142 Resp: 176240

Ion	Ratio	Lower	Upper
142	100		
141	91.5	69.6	104.4
115	35.7	26.6	40.0

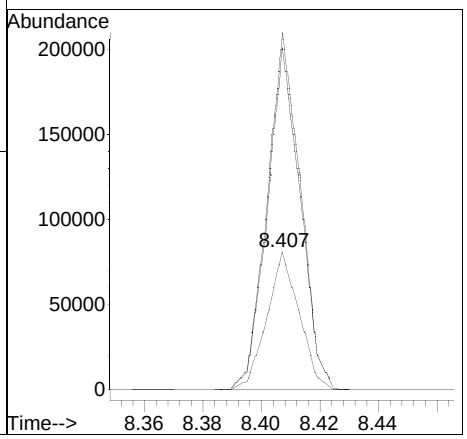


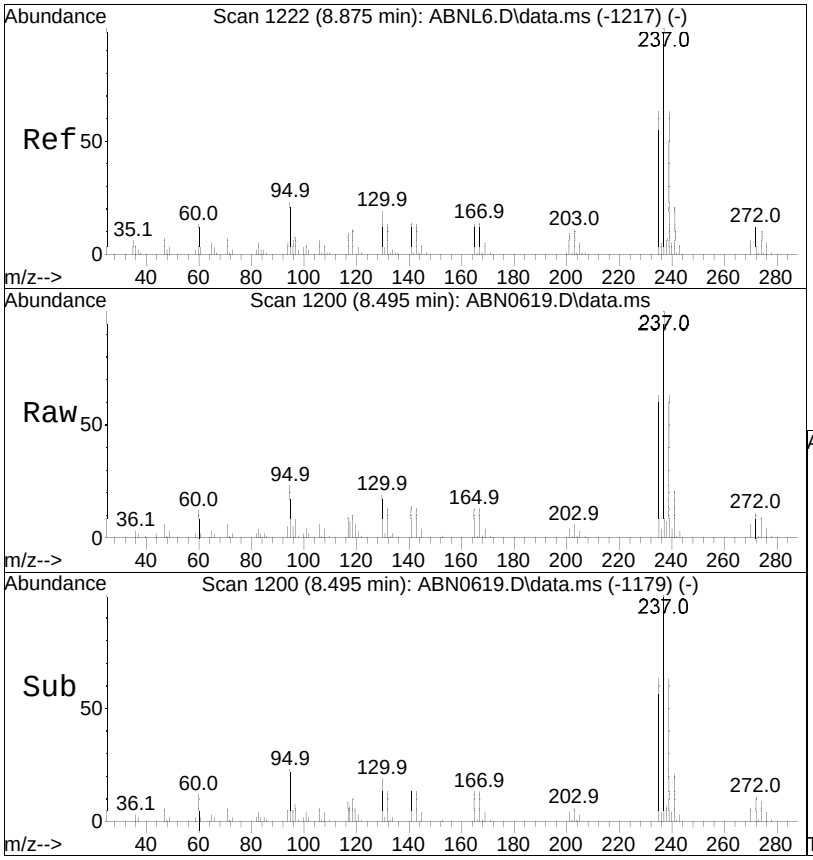


#41
1-Methylnaphthalene
Concen: 4.99 ug/ml
RT: 8.407 min Scan# 1185
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:115 Resp: 62564

Ion	Ratio	Lower	Upper
115	100		
141	250.5	207.8	311.6
142	263.8	226.8	340.2

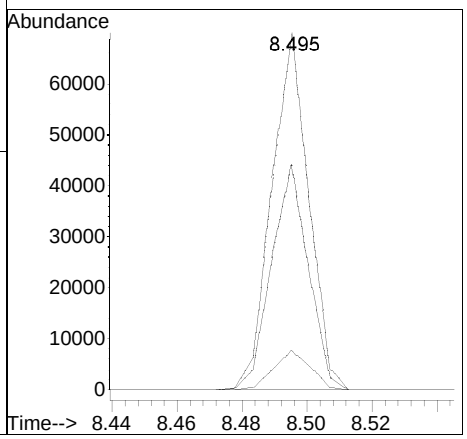


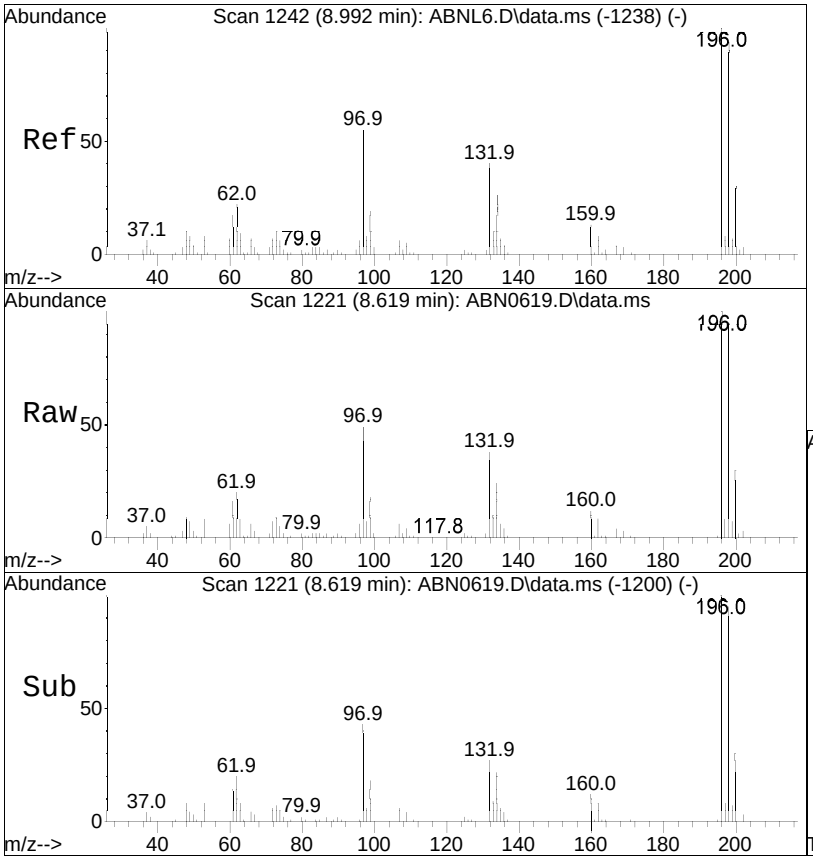


#42
Hexachlorocyclopentadiene
Concen: 5.02 ug/ml
RT: 8.495 min Scan# 1200
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:237 Resp: 55012

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.0	9.8	14.6

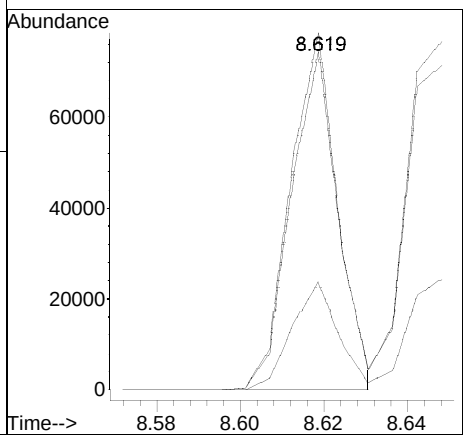


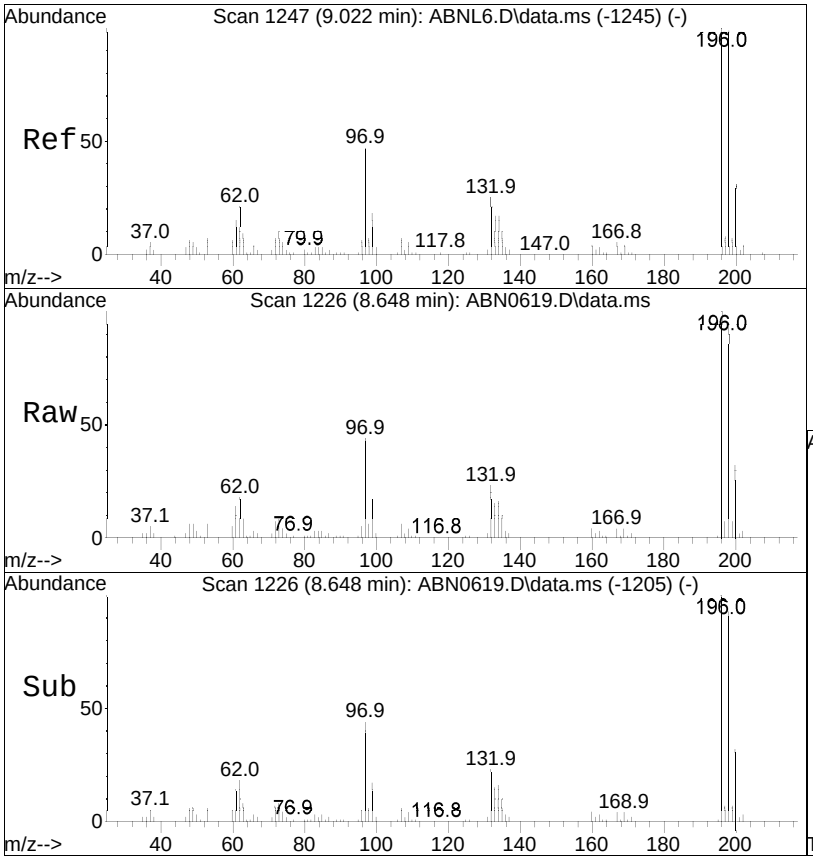


#43
2,4,6-Trichlorophenol
Concen: 4.84 ug/ml
RT: 8.619 min Scan# 1221
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:196 Resp: 61287

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.5	116.3
200	29.9	23.8	35.6

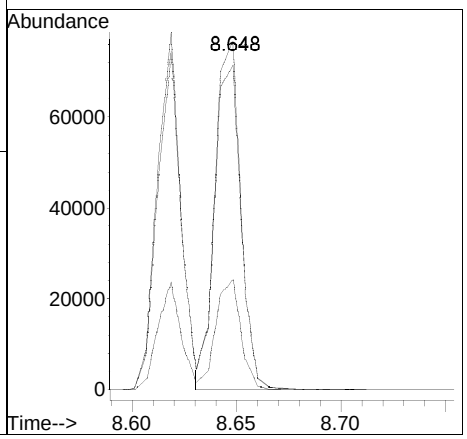


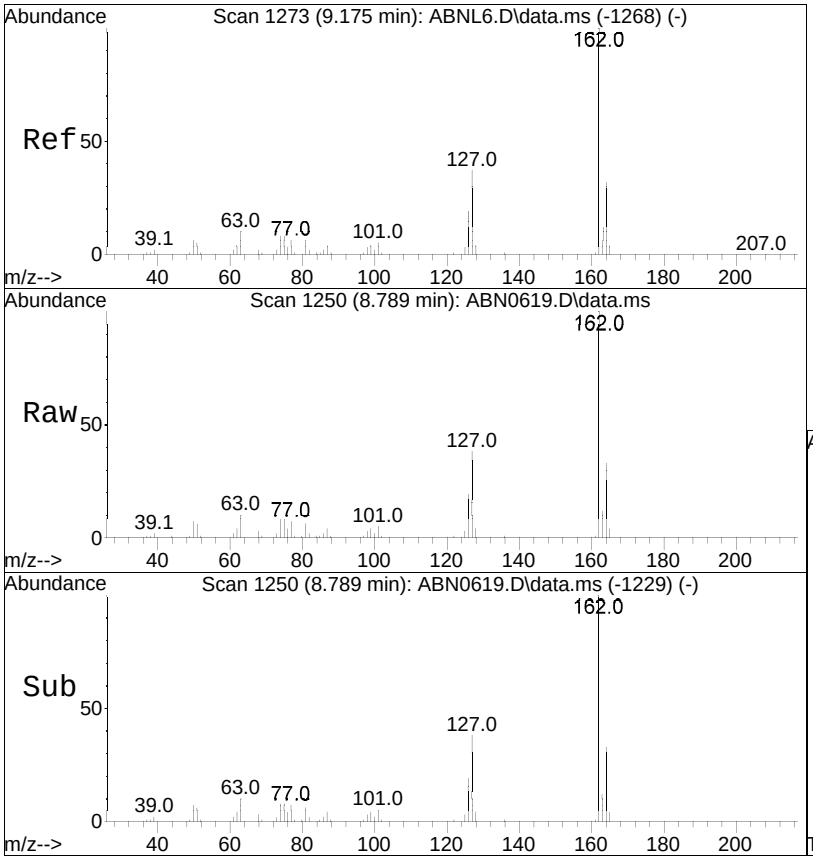


#44
2,4,5-Trichlorophenol
Concen: 4.90 ug/ml
RT: 8.648 min Scan# 1226
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:196 Resp: 65821

Ion	Ratio	Lower	Upper
196	100		
200	30.6	25.4	38.0
198	94.9	78.0	117.0

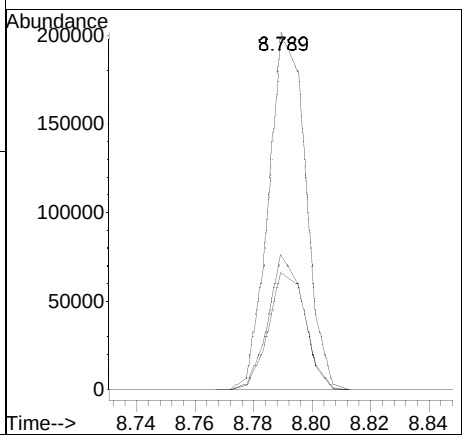


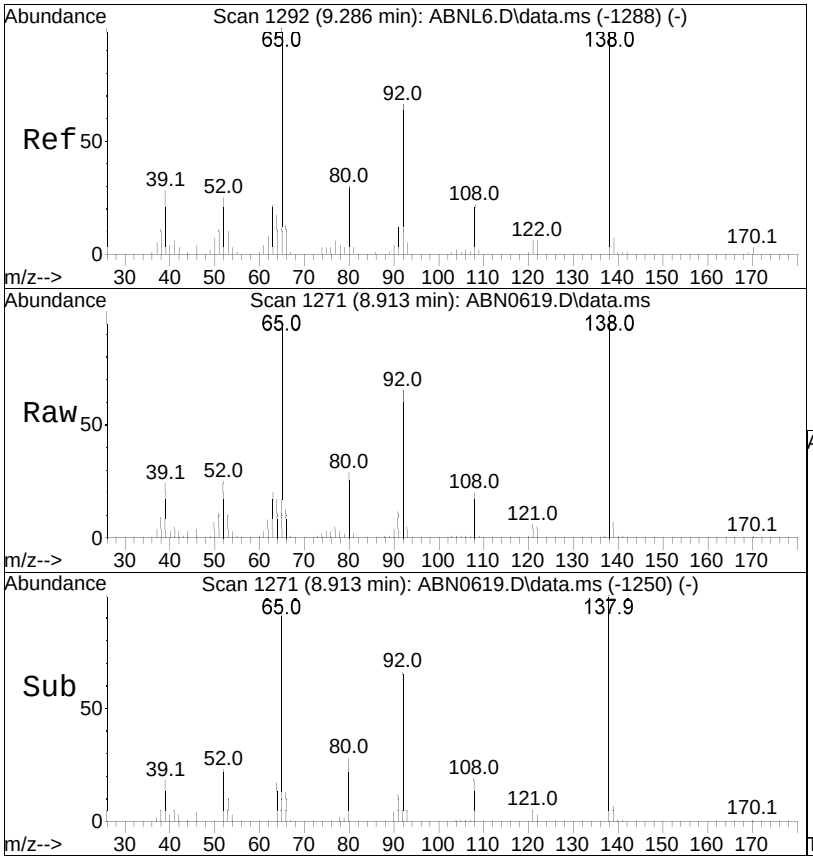


#46
2-Chloronaphthalene
Concen: 4.63 ug/ml
RT: 8.789 min Scan# 1250
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:162 Resp: 176857

Ion	Ratio	Lower	Upper
162	100		
127	35.9	32.2	48.4
164	33.2	25.7	38.5

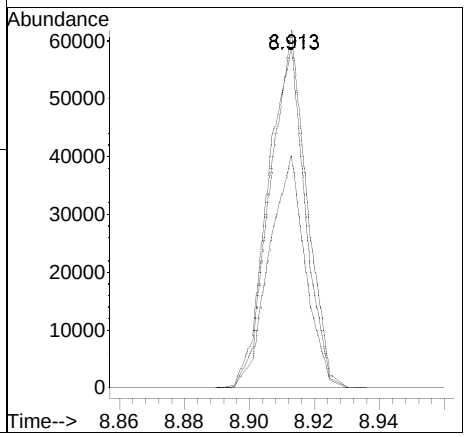


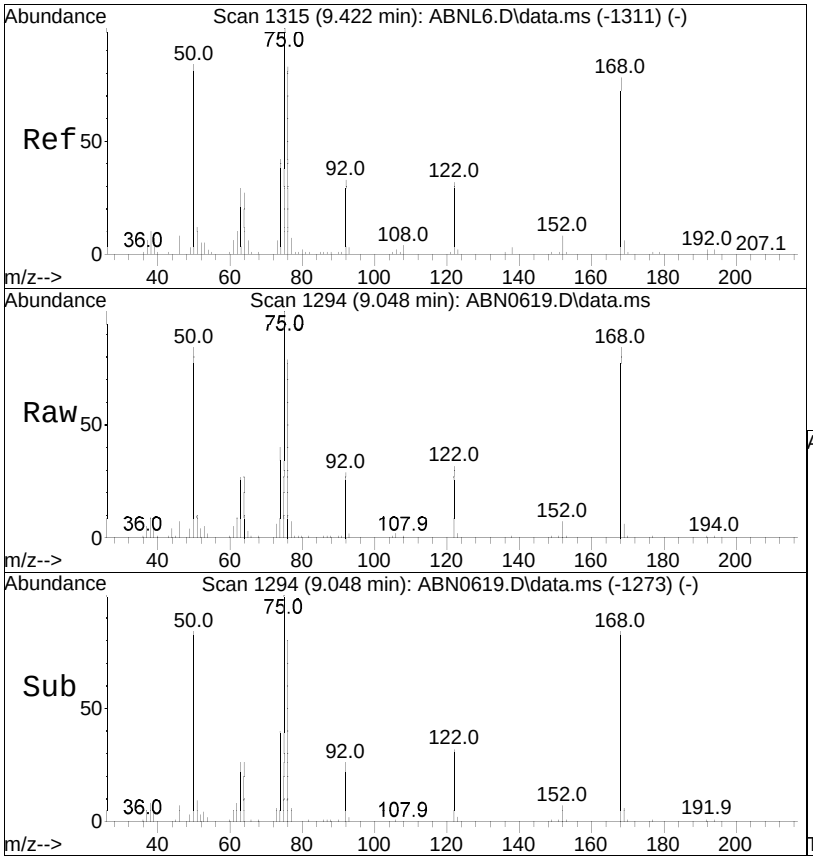


#47
2-Nitroaniline
Concen: 5.17 ug/ml
RT: 8.913 min Scan# 1271
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:138 Resp: 47855

Ion	Ratio	Lower	Upper
138	100		
92	64.5	53.5	80.3
65	97.9	86.3	129.5

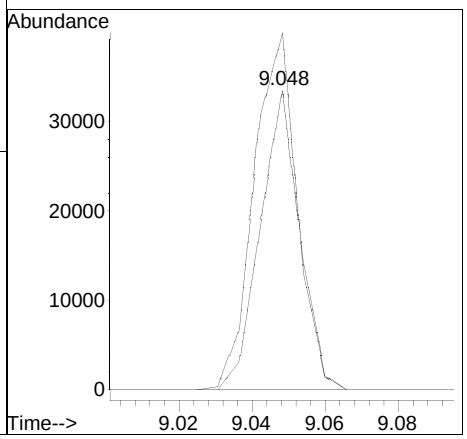


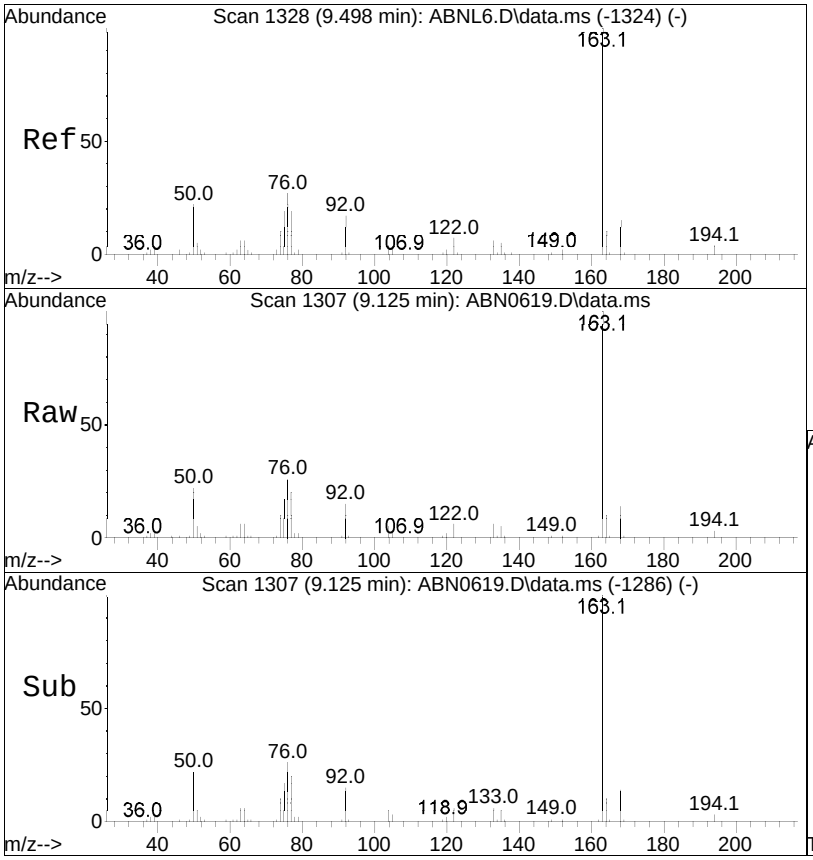


#48
1,4-Dinitrobenzene
Concen: 5.39 ug/ml
RT: 9.048 min Scan# 1294
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:168 Resp: 25044

Ion	Ratio	Lower	Upper
168	100		
75	130.1	121.8	182.8

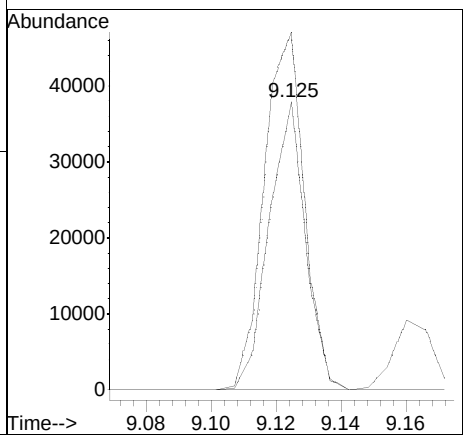


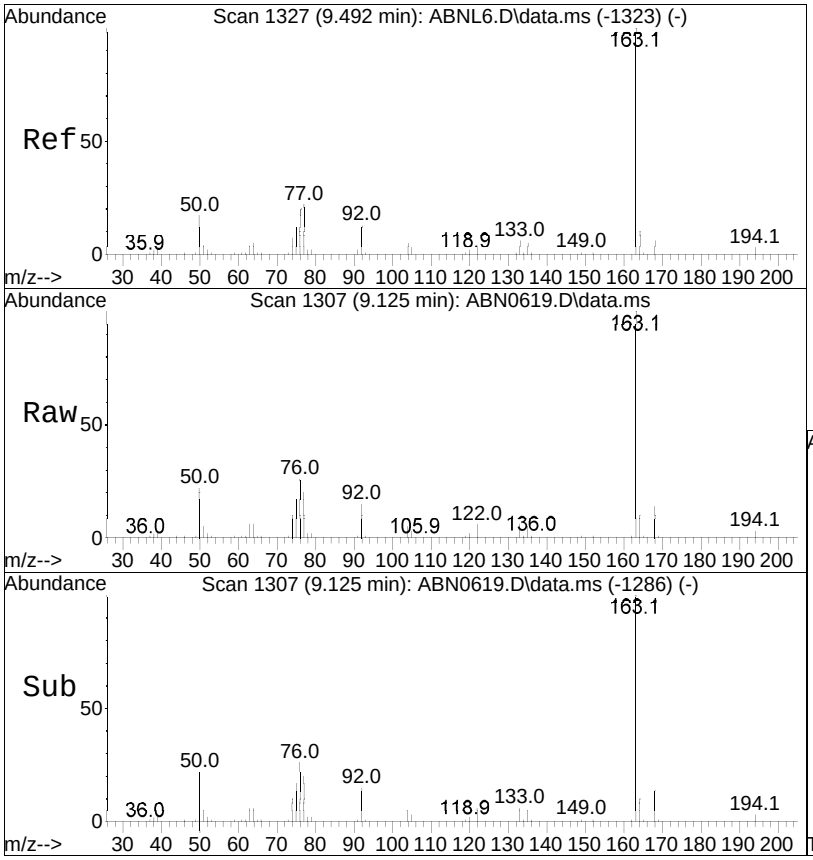


#49
1,3-Dinitrobenzene
Concen: 5.03 ug/ml
RT: 9.125 min Scan# 1307
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:168 Resp: 29223

Ion	Ratio	Lower	Upper
168	100		
75	136.4	22.7	34.1#

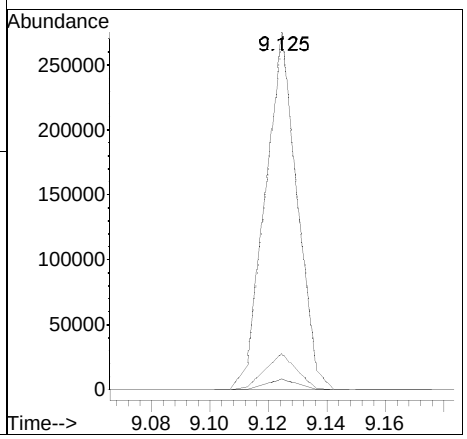


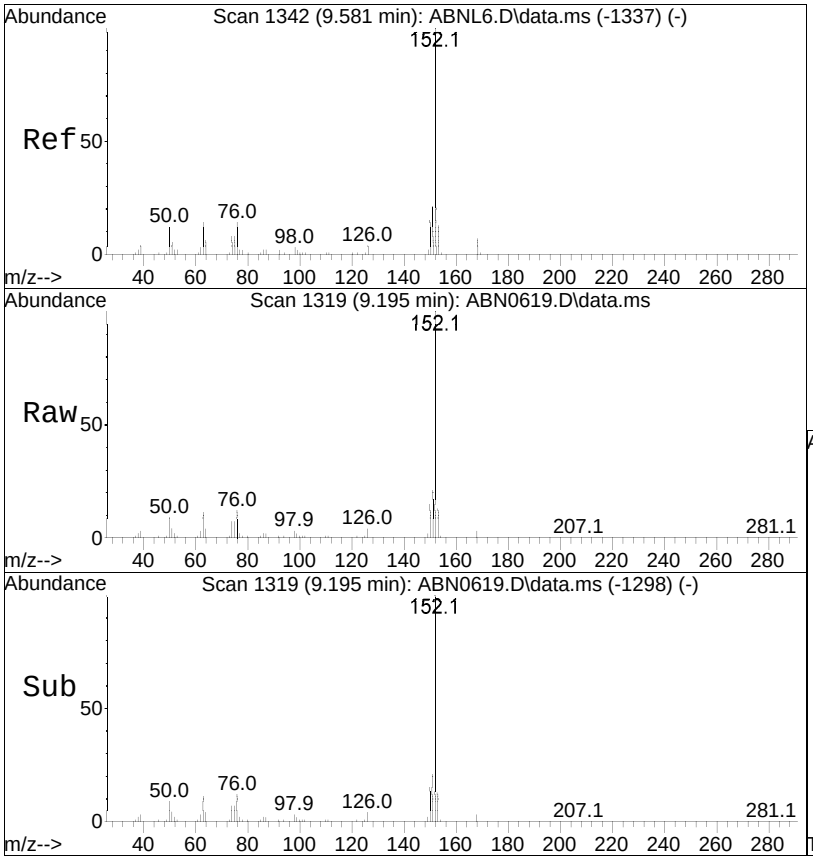


#50
Dimethyl phthalate
Concen: 4.61 ug/ml
RT: 9.125 min Scan# 1307
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:163 Resp: 206587

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.4	7.9	11.9

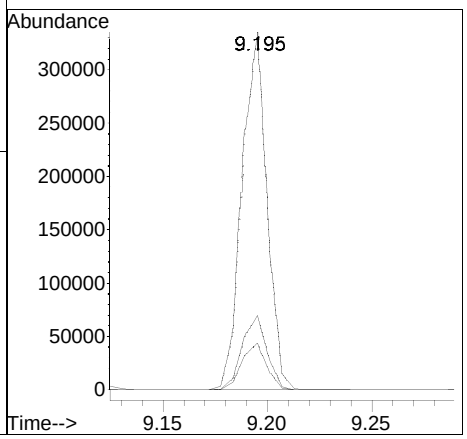


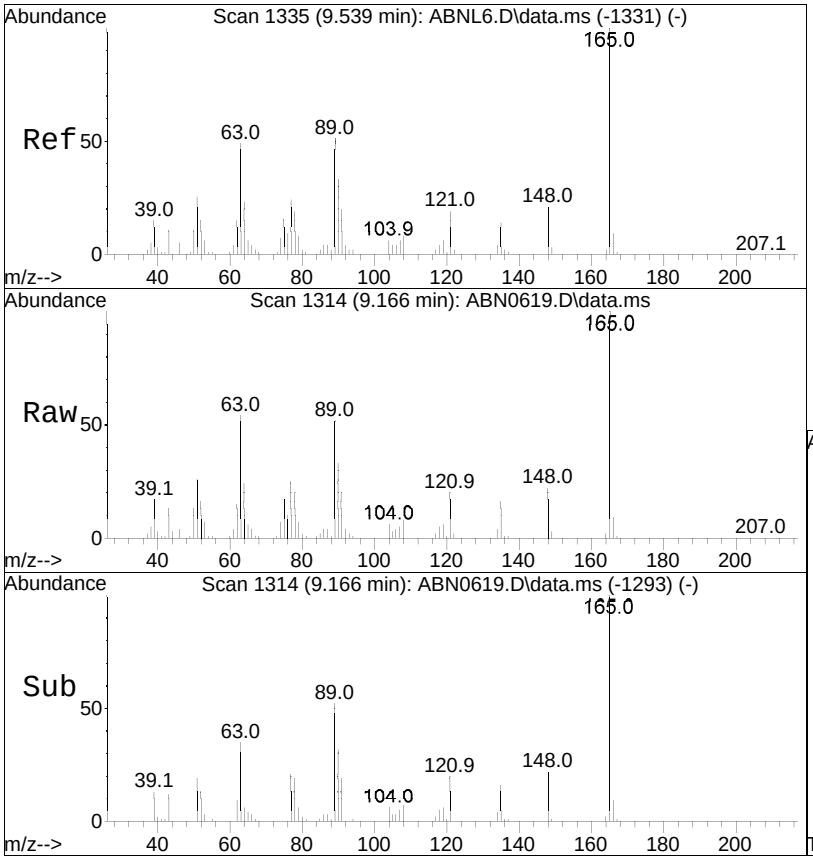


#51
Acenaphthylene
Concen: 4.76 ug/ml
RT: 9.195 min Scan# 1319
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:152 Resp: 274482

Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.8	23.6
153	13.2	10.5	15.7

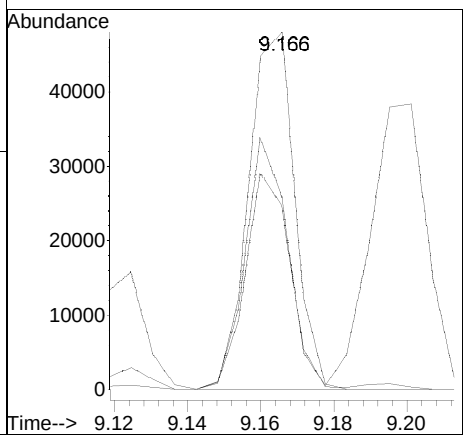


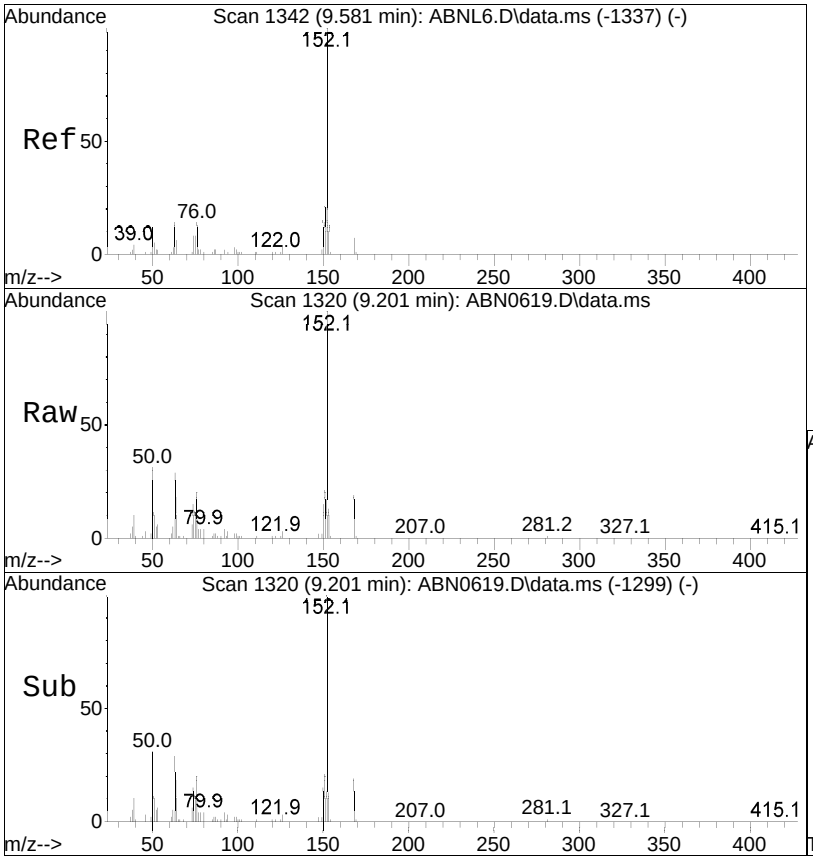


#52
2,6-Dinitrotoluene
Concen: 5.15 ug/ml
RT: 9.166 min Scan# 1314
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:165 Resp: 42003

Ion	Ratio	Lower	Upper
165	100		
89	59.1	54.2	81.2
63	65.0	64.2	96.2

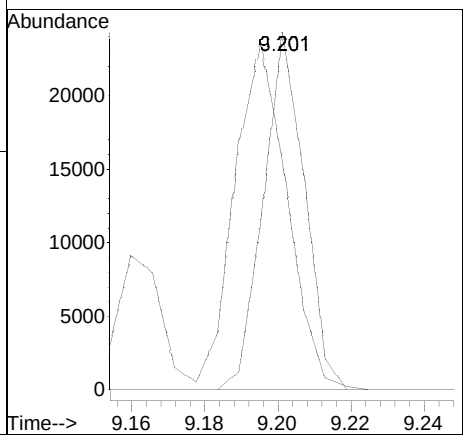


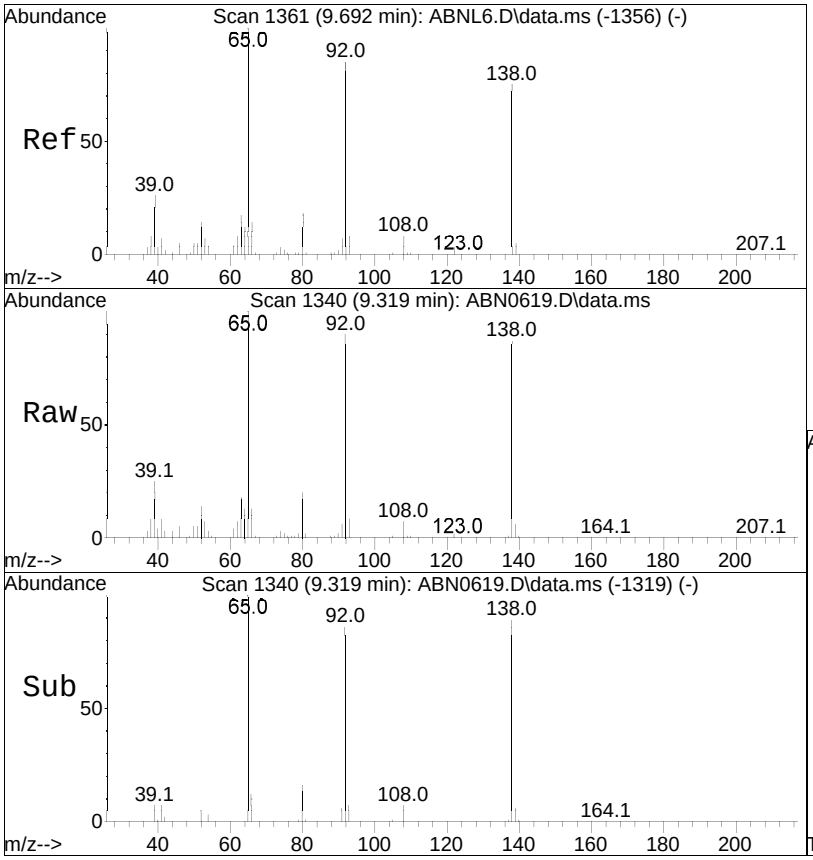


#53
1,2-Dinitrobenzene
Concen: 5.18 ug/ml
RT: 9.201 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:168 Resp: 18854

Ion	Ratio	Lower	Upper
168	100		
75	124.1	30.9	46.3#

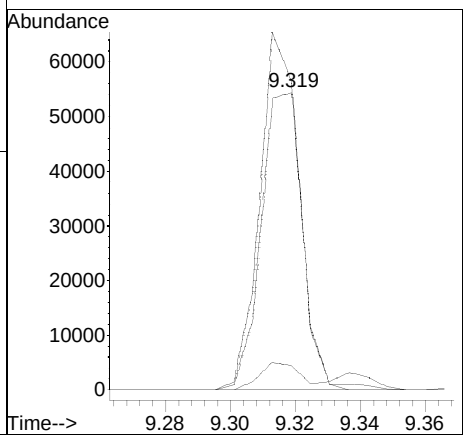


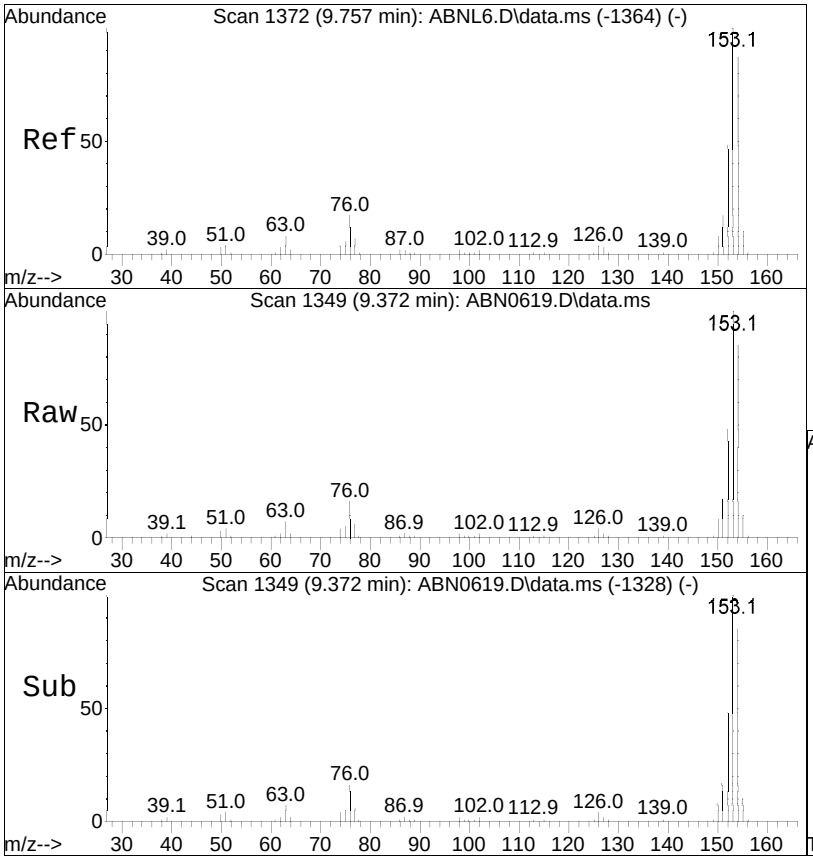


#63
3-Nitroaniline
Concen: 5.70 ug/ml
RT: 9.319 min Scan# 1340
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:138 Resp: 47162

Ion	Ratio	Lower	Upper
138	100		
92	115.9	93.4	140.2
108	10.3	9.5	14.3

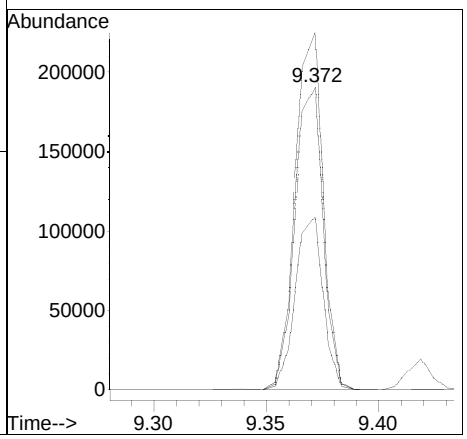


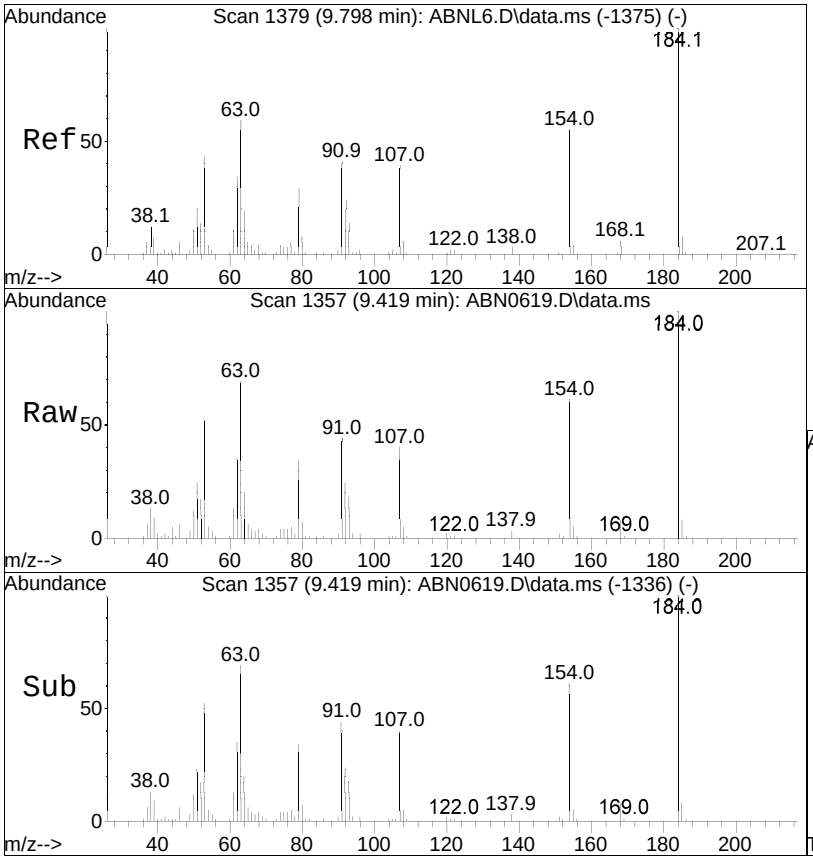


#64
Acenaphthene
Concen: 4.82 ug/ml
RT: 9.372 min Scan# 1349
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:154 Resp: 166061

Ion	Ratio	Lower	Upper
154	100		
153	116.9	85.3	127.9
152	56.8	41.4	62.0

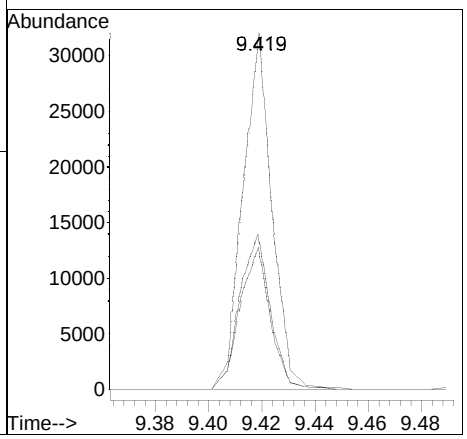


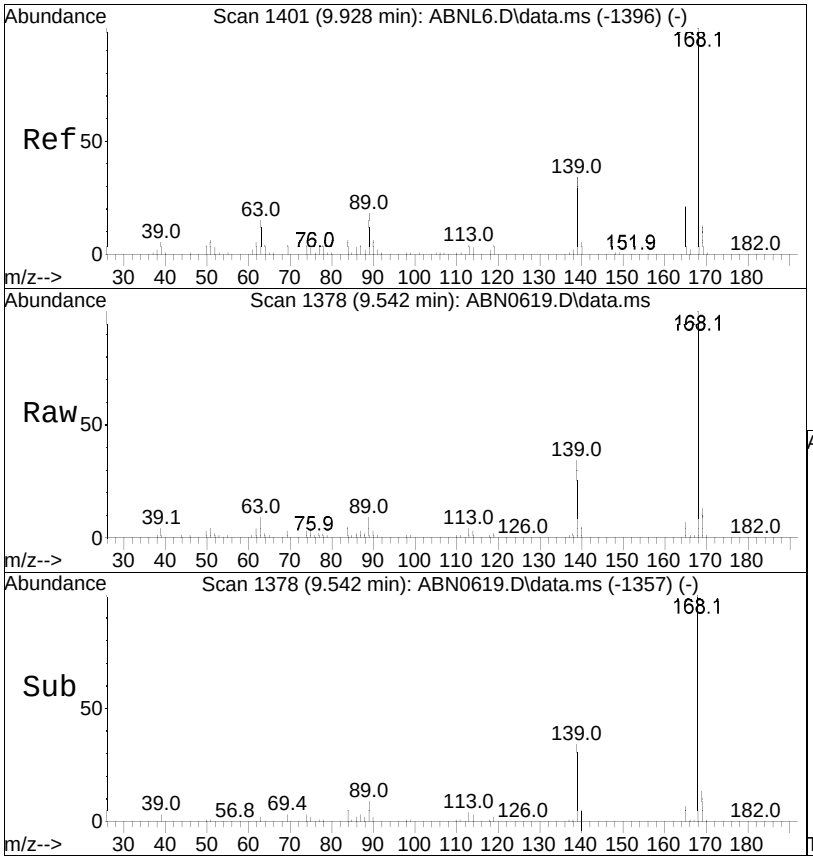


#65
2,4-Dinitrophenol
Concen: 5.37 ug/ml
RT: 9.419 min Scan# 1357
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:184 Resp: 24161

Ion	Ratio	Lower	Upper
184	100		
107	41.9	37.7	56.5
91	46.2	46.3	69.5#

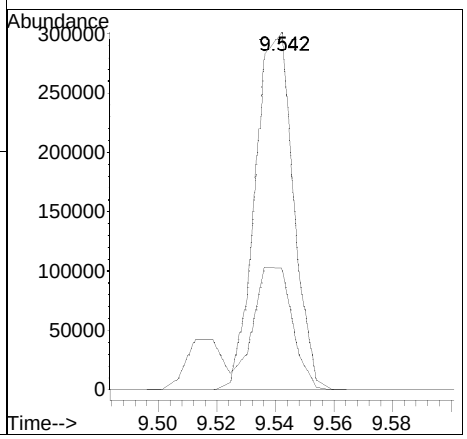


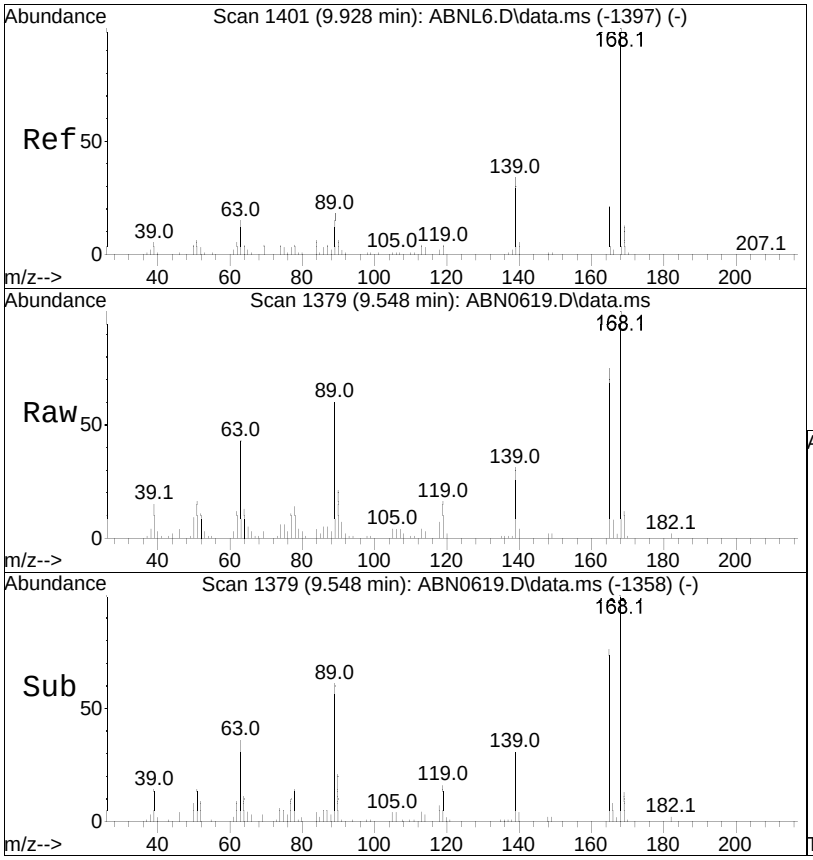


#66
Dibenzofuran
Concen: 4.85 ug/ml
RT: 9.542 min Scan# 1378
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:168 Resp: 271395

Ion	Ratio	Lower	Upper
168	100		
139	34.8	31.4	47.2

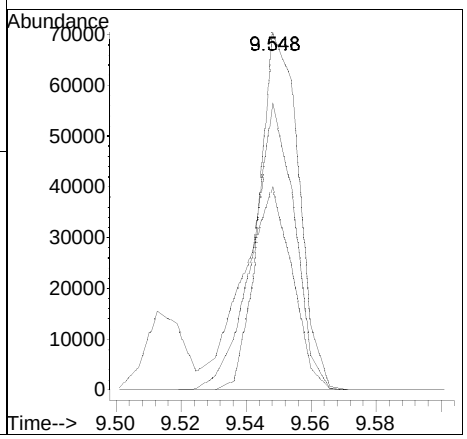


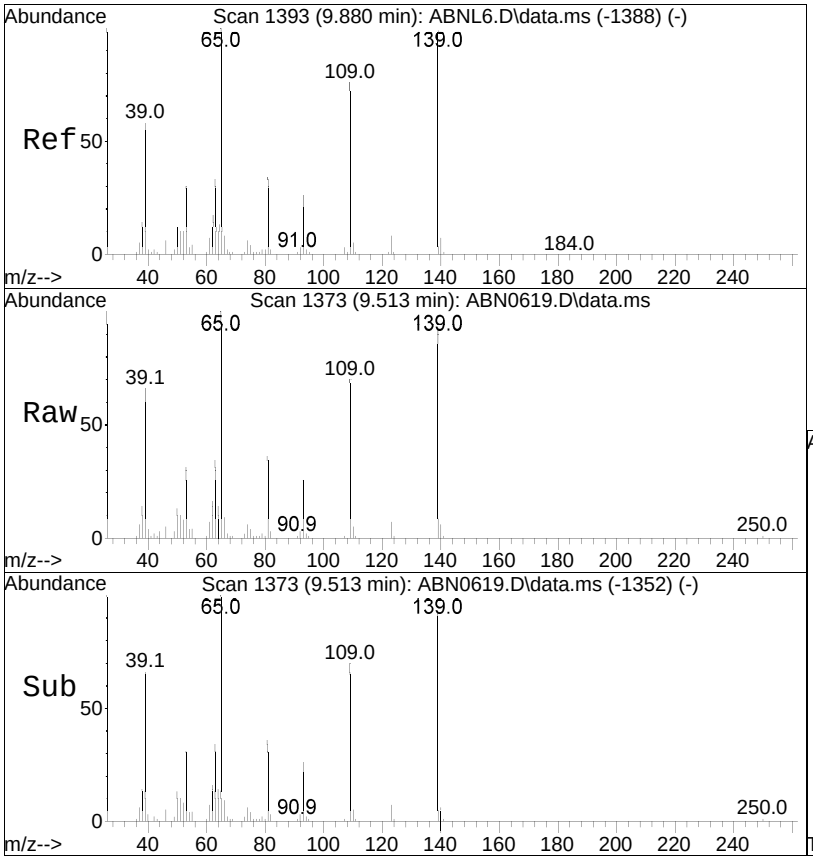


#67
2,4-Dinitrotoluene
Concen: 4.81 ug/ml
RT: 9.548 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:165 Resp: 59072

Ion	Ratio	Lower	Upper
165	100		
89	85.3	72.0	108.0
63	72.0	52.7	79.1

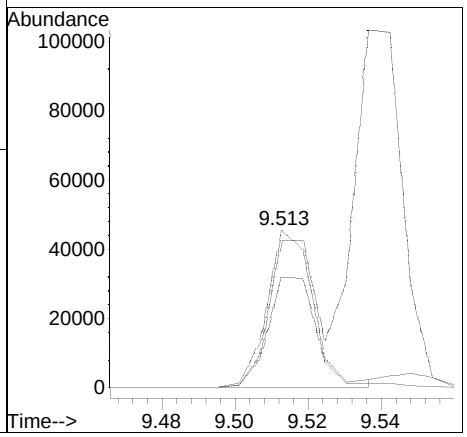


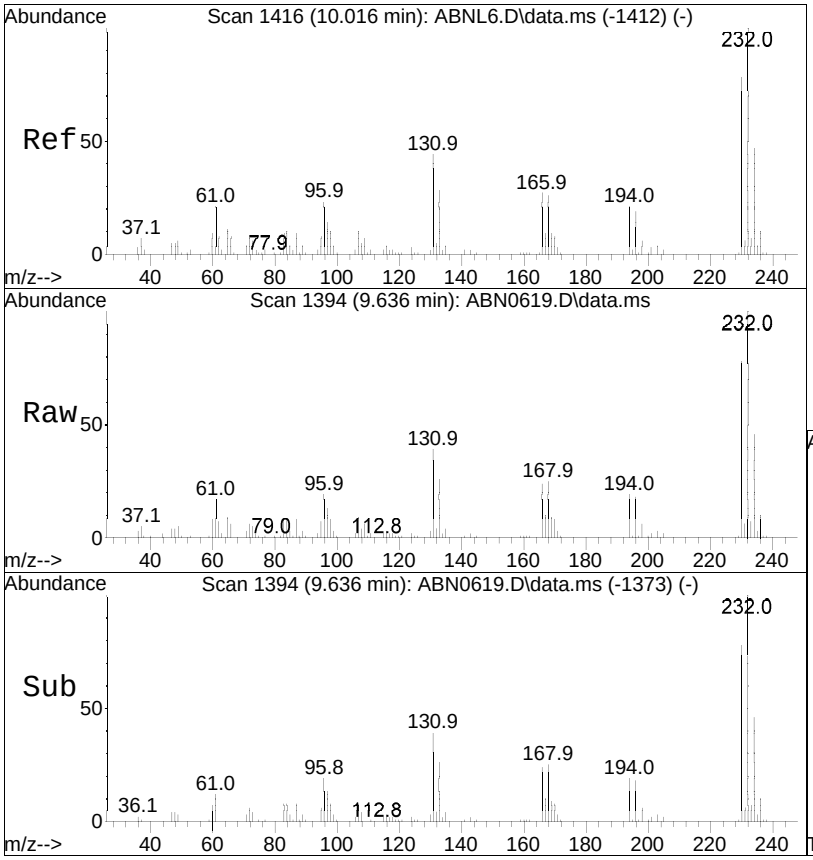


#68
4-Nitrophenol
Concen: 5.59 ug/ml
RT: 9.513 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 65 Resp: 39484

Ion	Ratio	Lower	Upper
65	100		
109	74.9	47.4	71.2#
139	97.0	76.6	115.0

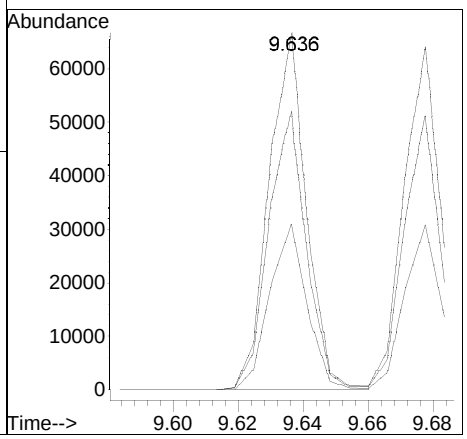


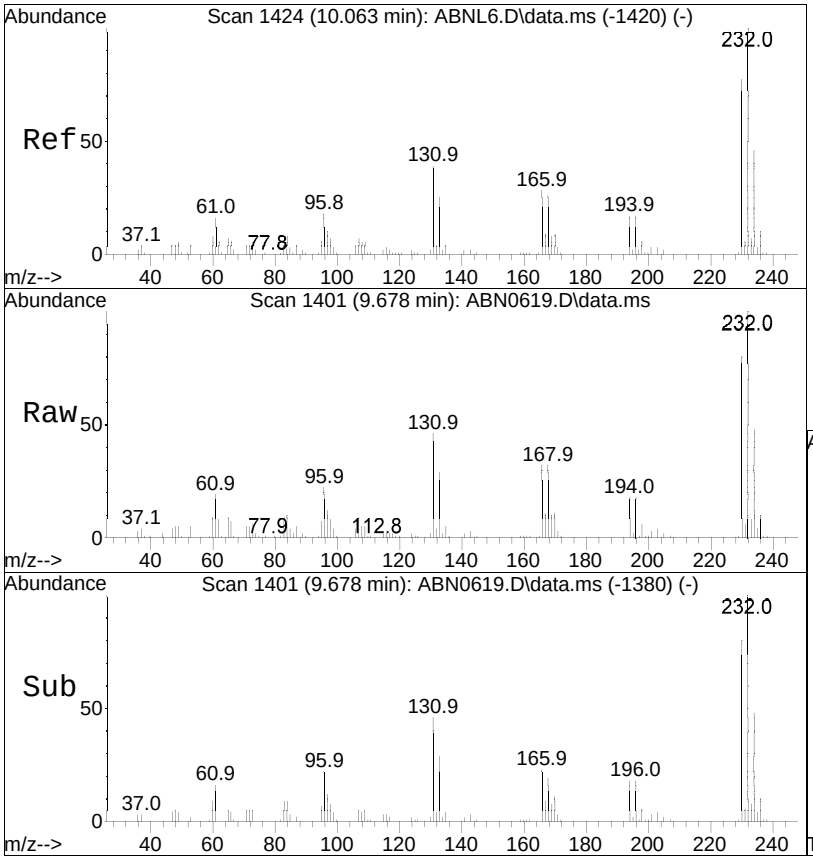


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.26 ug/ml
RT: 9.636 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:232 Resp: 53305

Ion	Ratio	Lower	Upper
232	100		
230	78.9	64.2	96.4
234	46.3	38.1	57.1

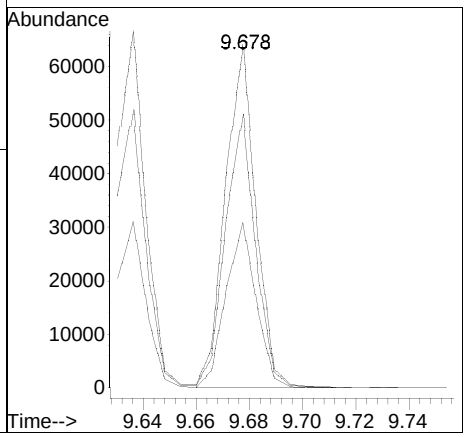


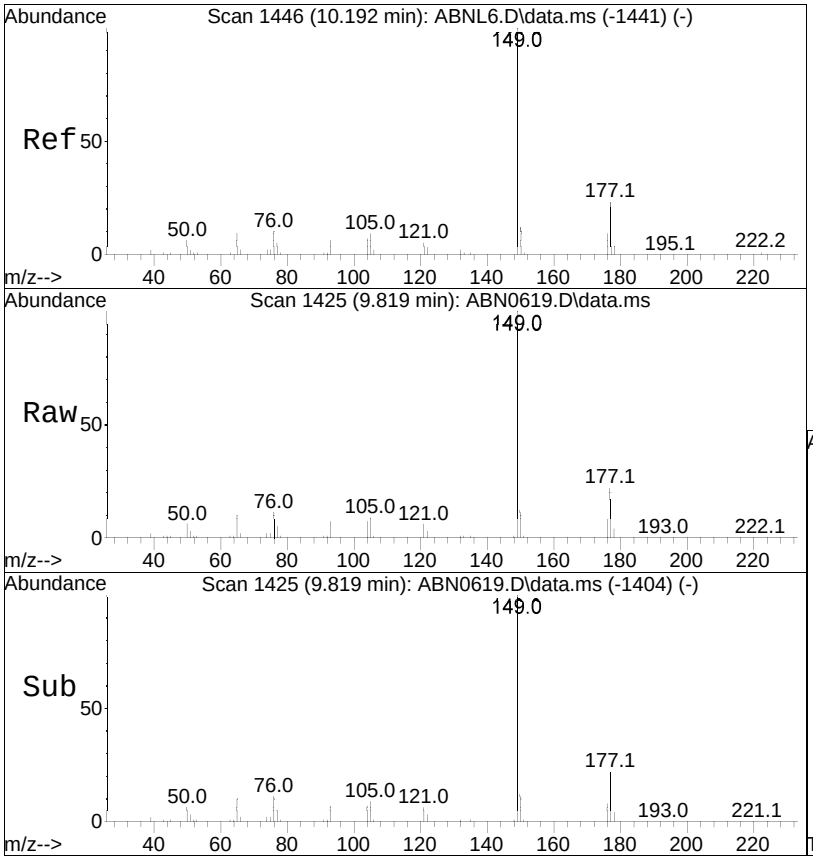


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.11 ug/ml
RT: 9.678 min Scan# 1401
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:232 Resp: 51162

Ion	Ratio	Lower	Upper
232	100		
230	78.8	61.8	92.8
234	47.9	36.2	54.2

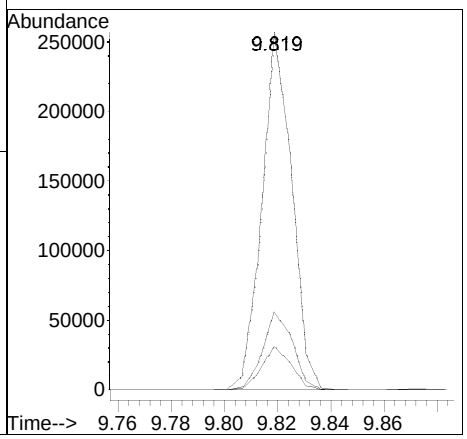


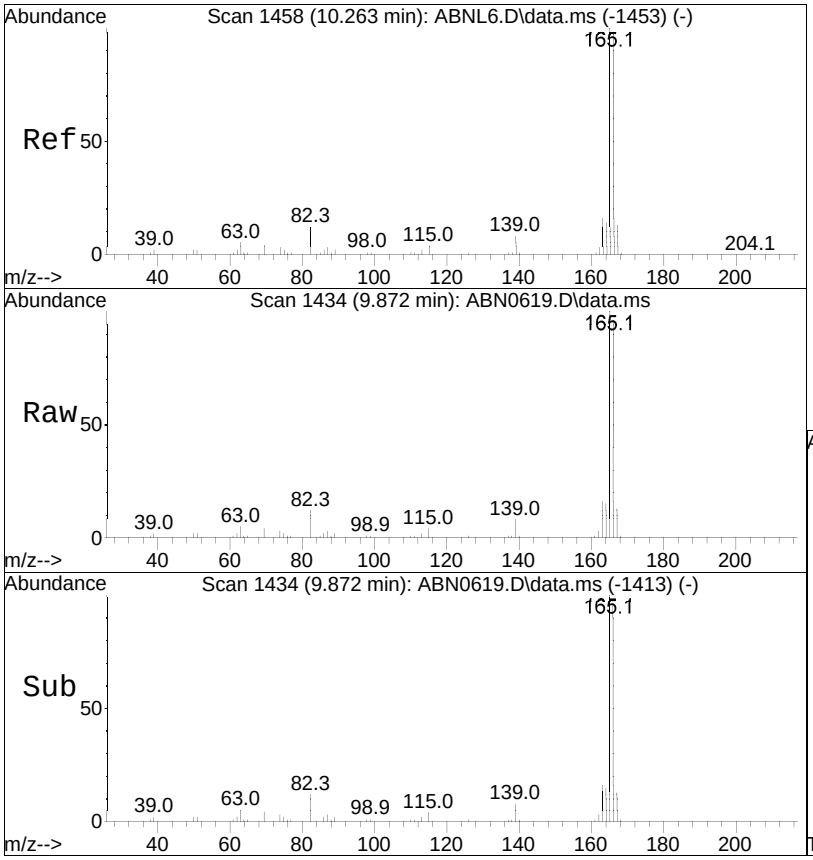


#71
Diethyl phthalate
Concen: 4.75 ug/ml
RT: 9.819 min Scan# 1425
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:149 Resp: 197013

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.2	9.4	14.2

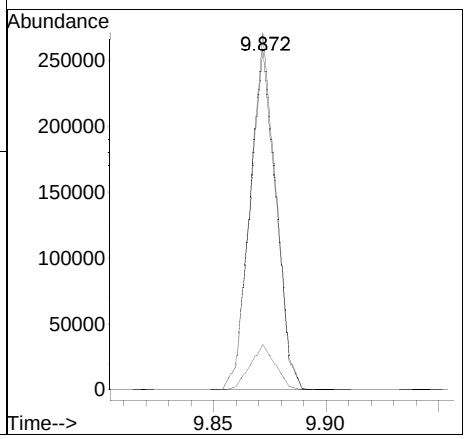


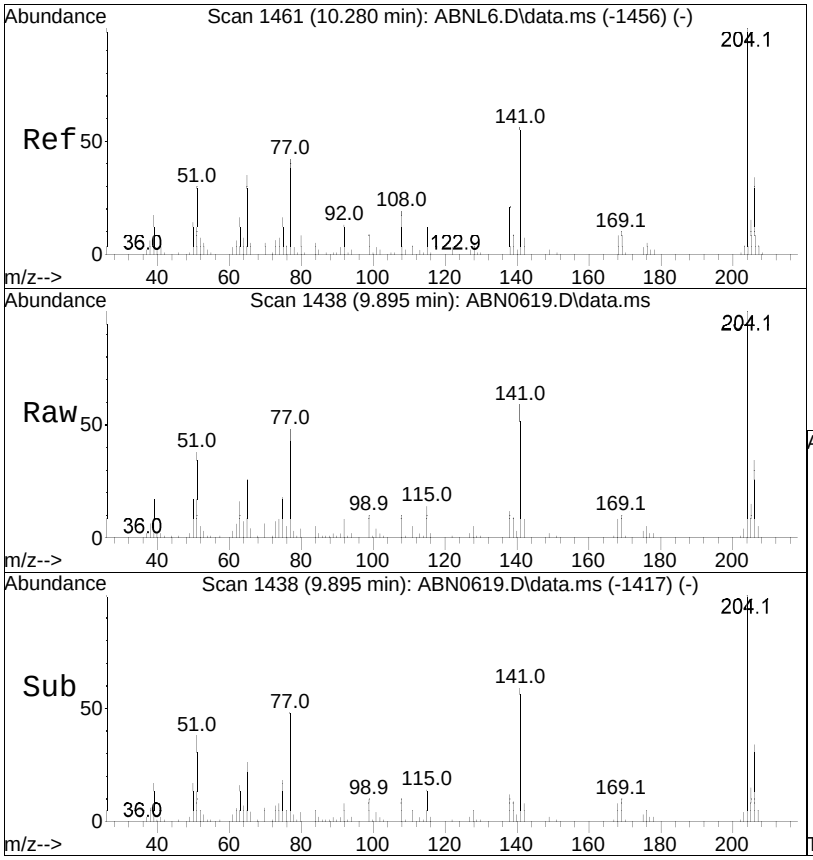


#72
Fluorene
Concen: 4.85 ug/ml
RT: 9.872 min Scan# 1434
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:166 Resp: 205580

Ion	Ratio	Lower	Upper
166	100		
165	104.1	76.2	114.2
167	13.4	10.6	15.8

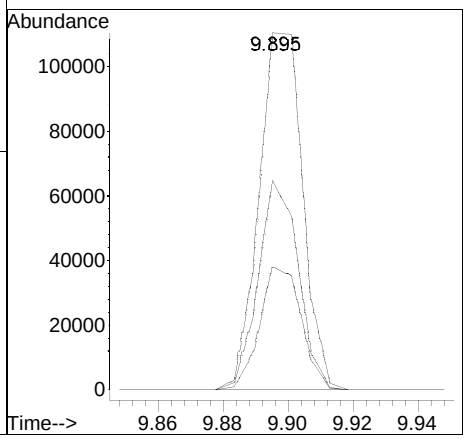


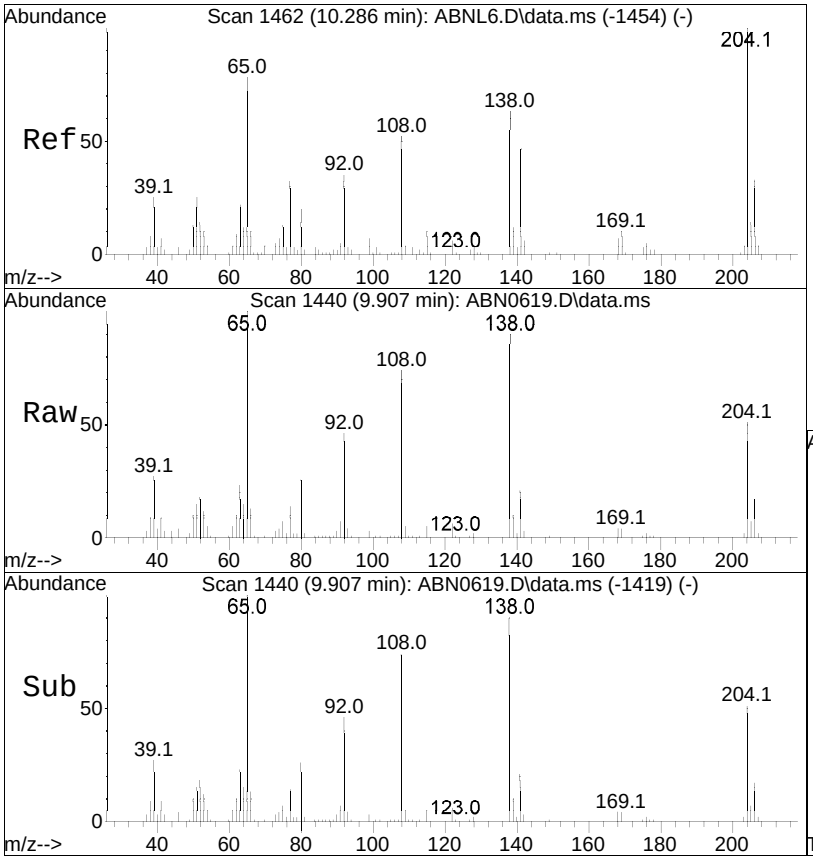


#73
4-Chlorophenyl phenyl ether
Concen: 4.79 ug/ml
RT: 9.895 min Scan# 1438
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:204 Resp: 102548

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	53.7	53.6	80.4

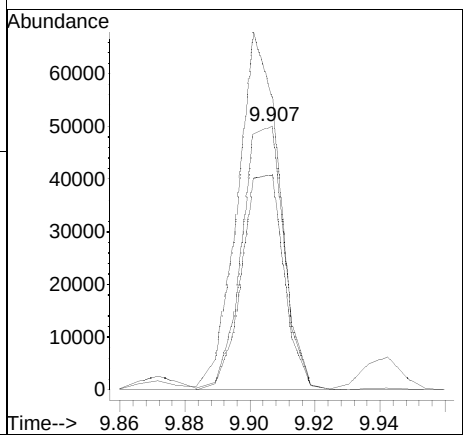


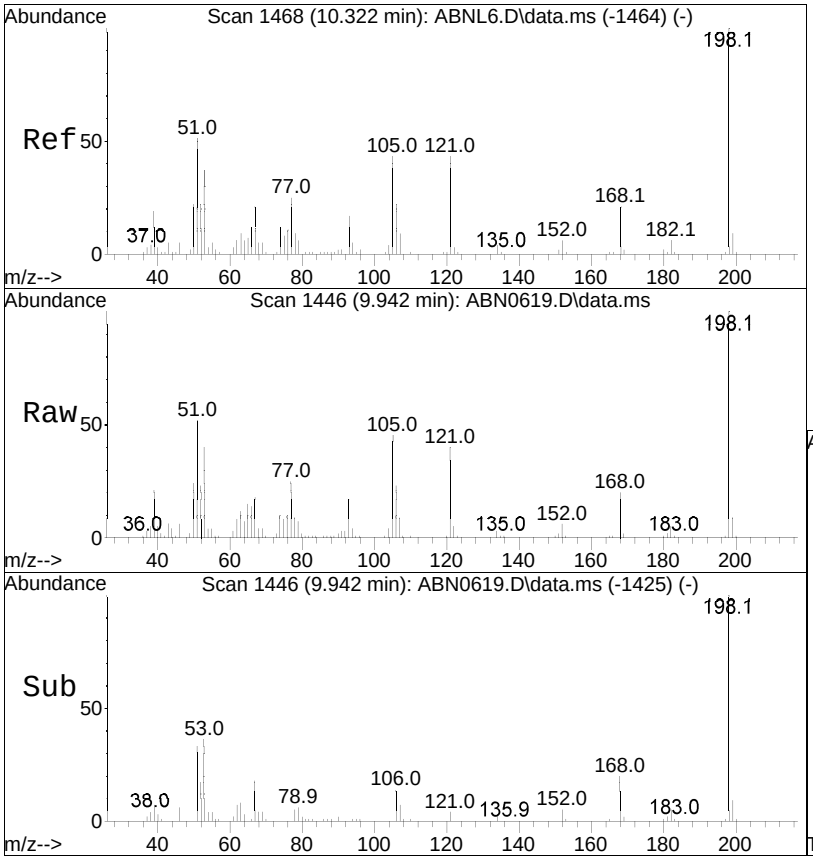


#74
4-Nitroaniline
Concen: 5.37 ug/ml
RT: 9.907 min Scan# 1440
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:138 Resp: 44941

Ion	Ratio	Lower	Upper
138	100		
108	81.6	52.1	78.1#
65	136.9	115.0	172.6

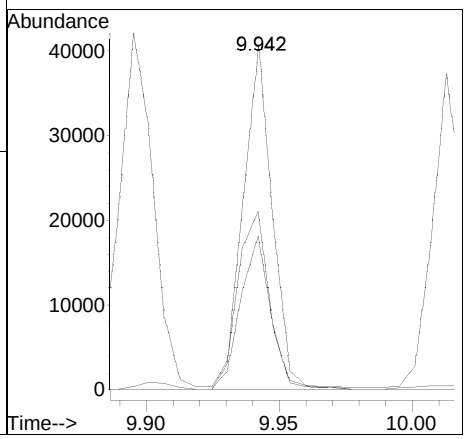


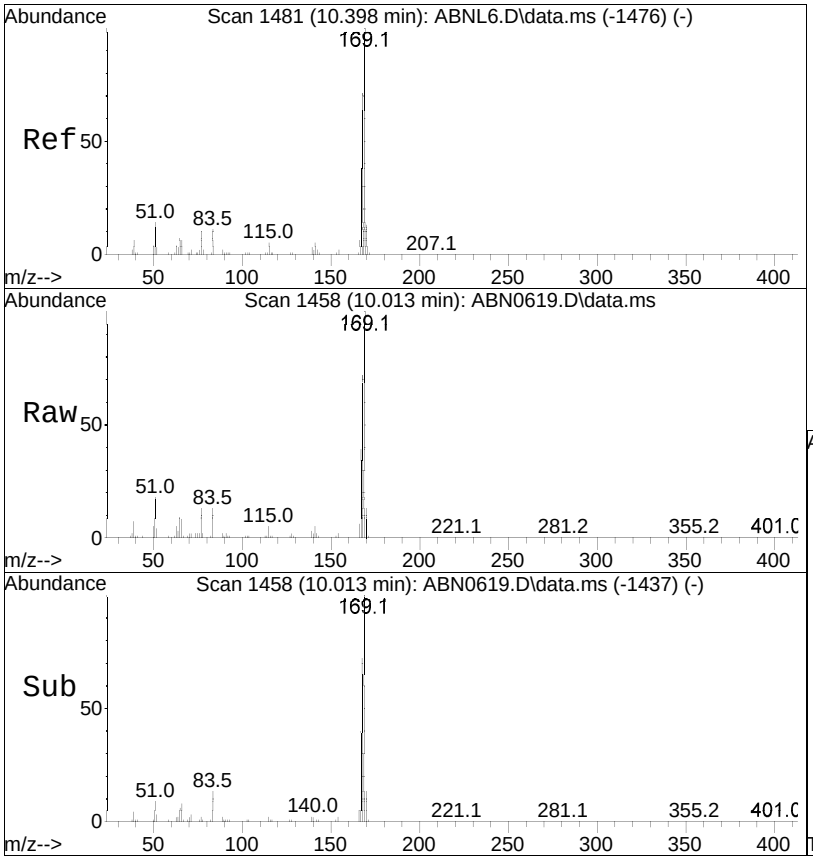


#75
4,6-Dinitro-o-cresol
Concen: 4.76 ug/ml
RT: 9.942 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:198 Resp: 30953

Ion	Ratio	Lower	Upper
198	100		
51	55.2	76.0	114.0#
105	46.3	45.6	68.4

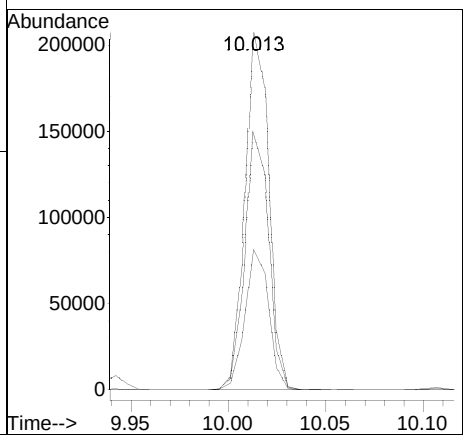


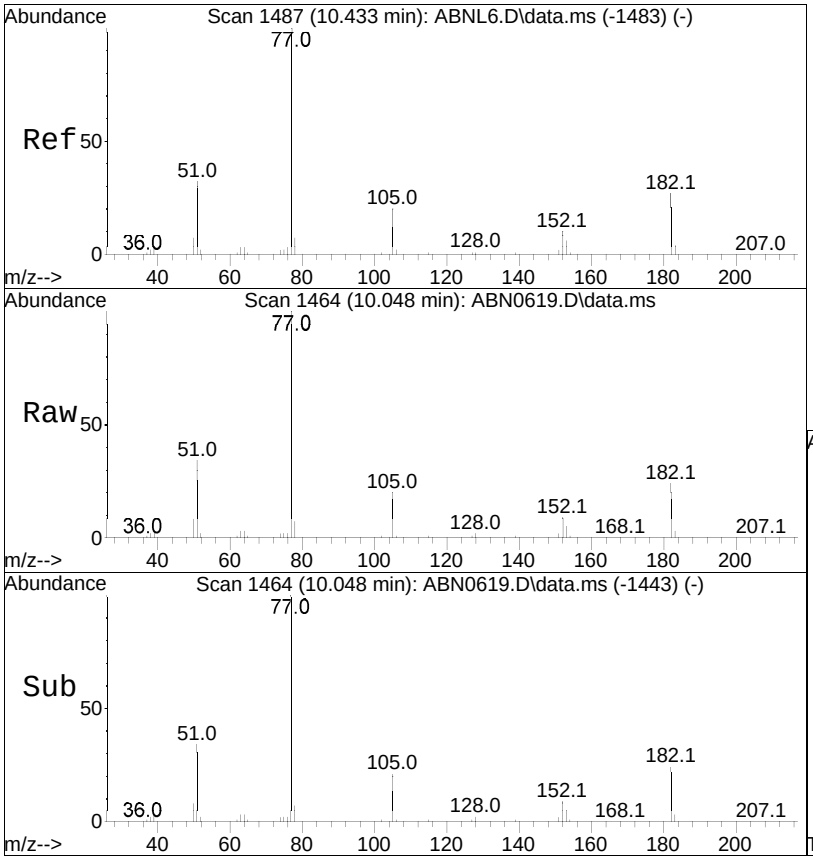


#76
NDPA/DPA
Concen: 4.89 ug/ml
RT: 10.013 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:169 Resp: 176383

Ion	Ratio	Lower	Upper
169	100		
168	72.4	54.0	81.0
167	39.2	28.6	42.8

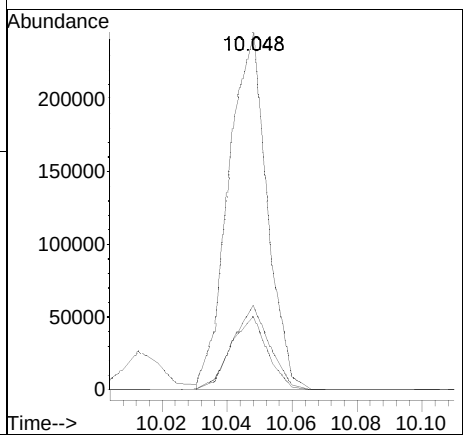


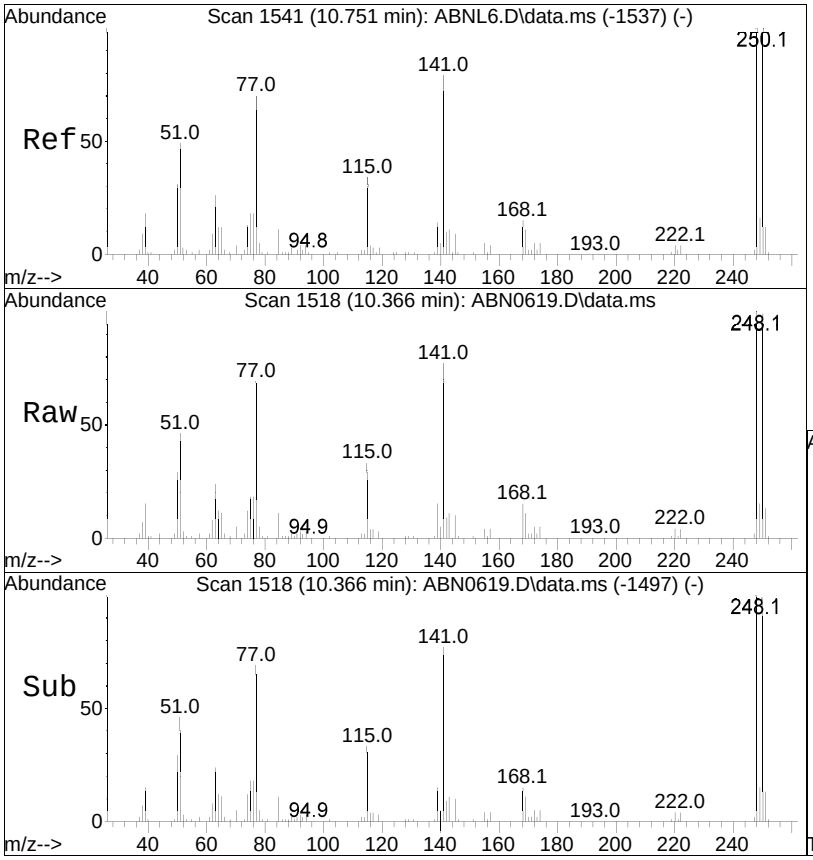


#77
Azobenzene
Concen: 5.01 ug/ml
RT: 10.048 min Scan# 1464
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion: 77 Resp: 200942

Ion	Ratio	Lower	Upper
77	100		
182	23.1	17.4	26.2
105	20.4	15.4	23.2

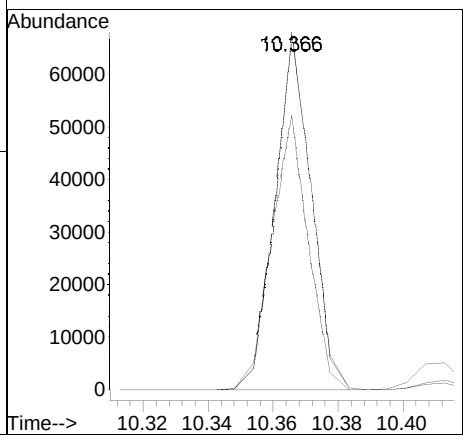


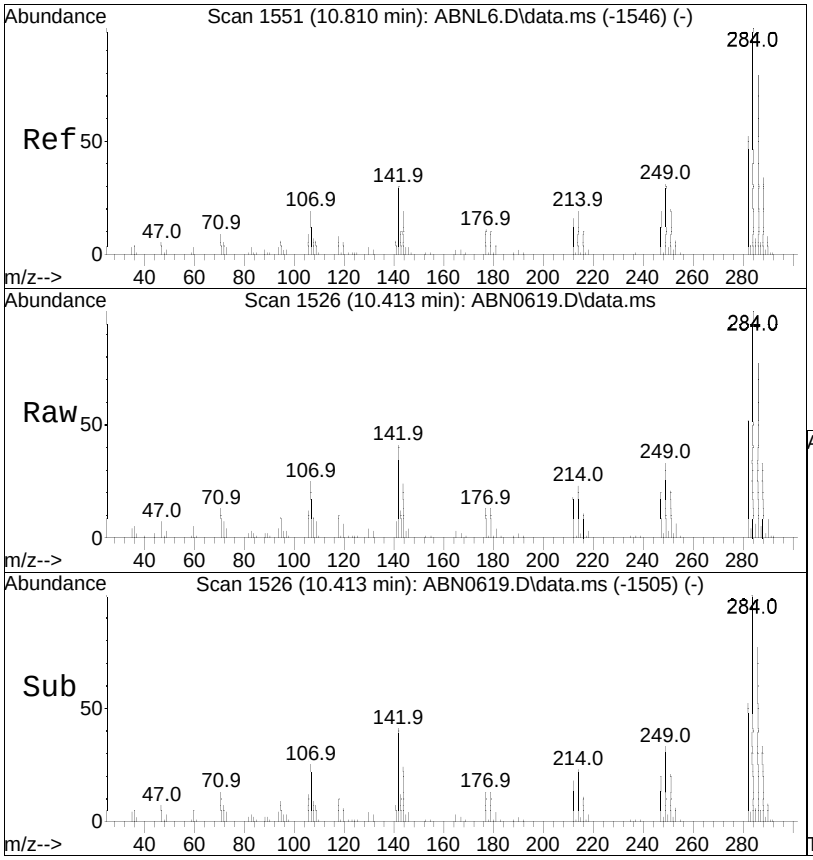


#79
4-Bromophenyl phenyl ether
Concen: 4.36 ug/ml
RT: 10.366 min Scan# 1518
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:248 Resp: 52284

Ion	Ratio	Lower	Upper
248	100		
141	77.7	76.6	114.8
250	98.8	77.3	115.9

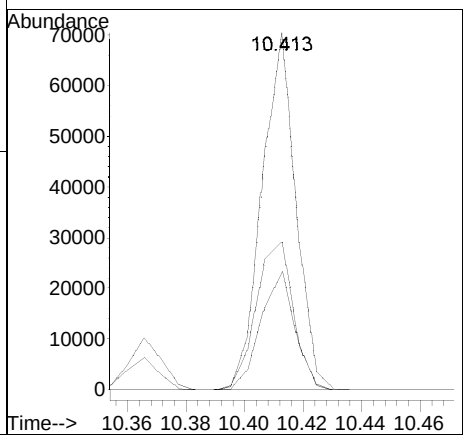


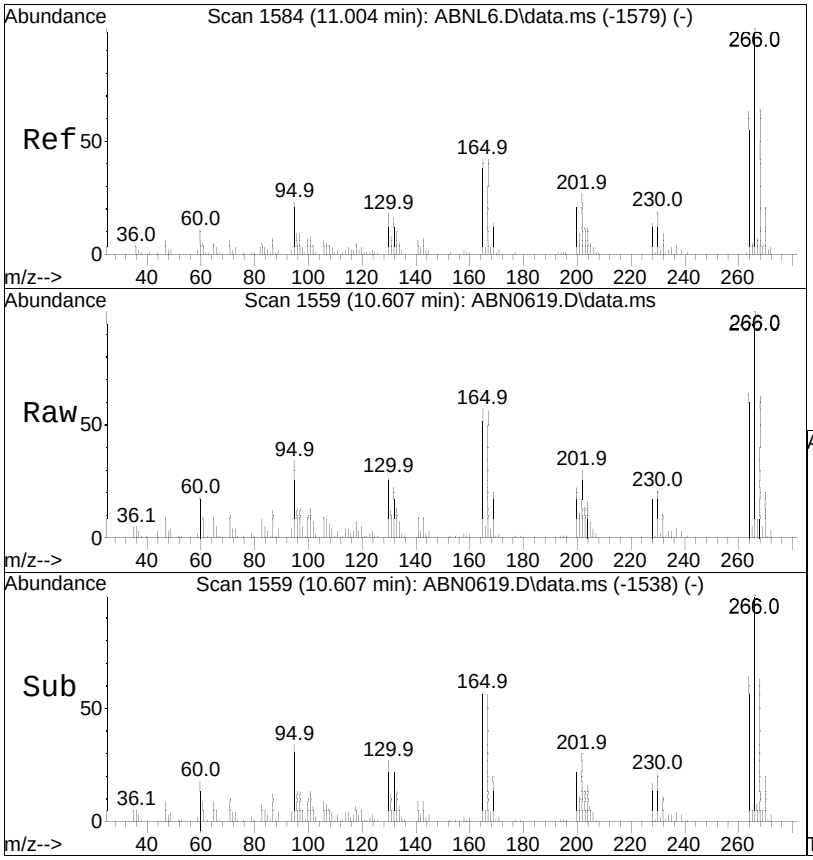


#80
Hexachlorobenzene
Concen: 4.11 ug/ml
RT: 10.413 min Scan# 1526
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:284 Resp: 56517

Ion	Ratio	Lower	Upper
284	100		
142	45.8	41.9	62.9
249	33.5	24.1	36.1

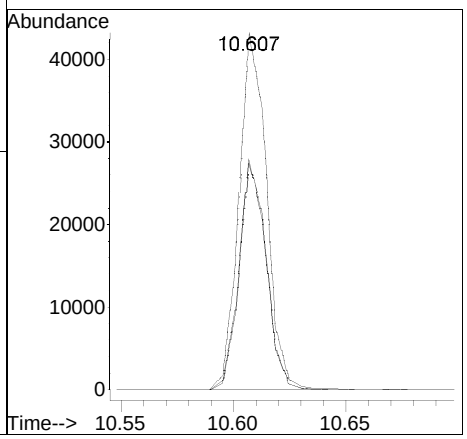


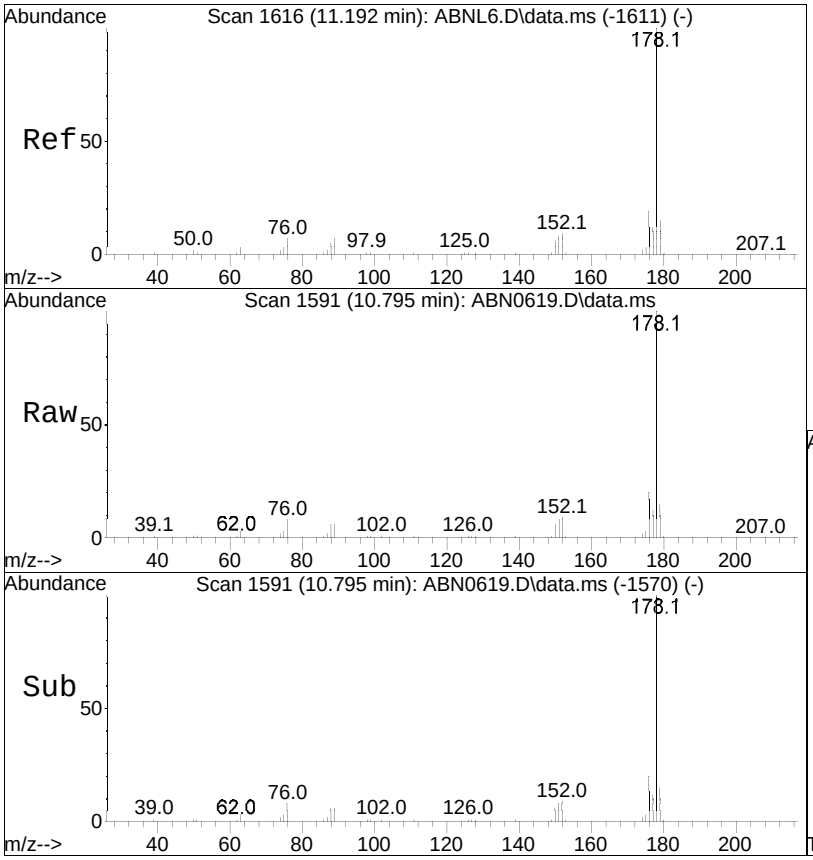


#81
Pentachlorophenol
Concen: 4.59 ug/ml
RT: 10.607 min Scan# 1559
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:266 Resp: 36804

Ion	Ratio	Lower	Upper
266	100		
264	63.0	49.7	74.5
268	62.6	50.5	75.7

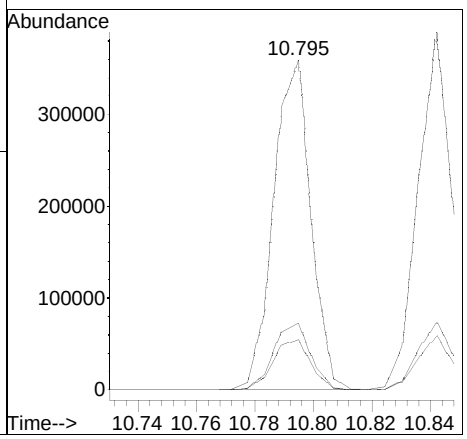


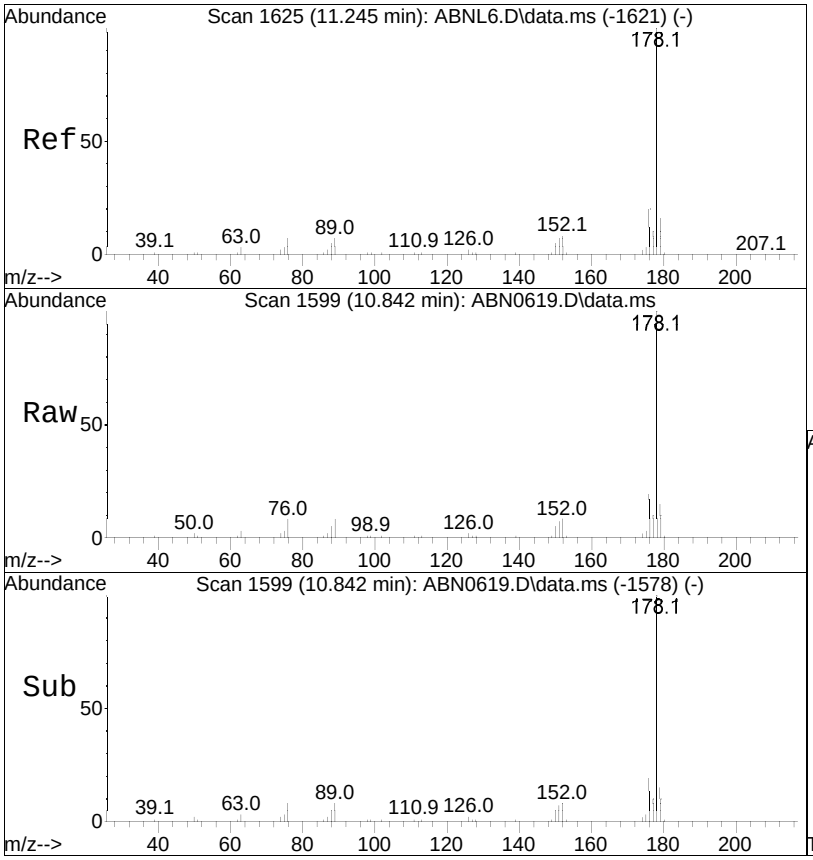


#88
Phenanthrene
Concen: 4.91 ug/ml
RT: 10.795 min Scan# 1591
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:178 Resp: 316307

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	20.1	15.4	23.2

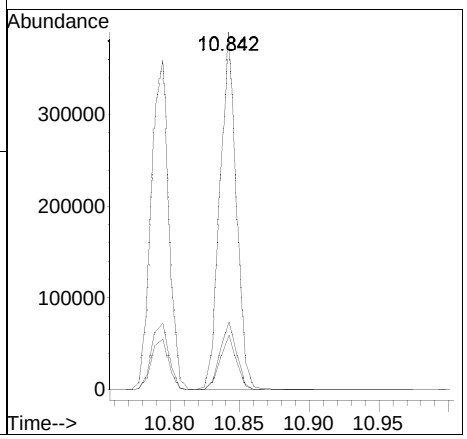


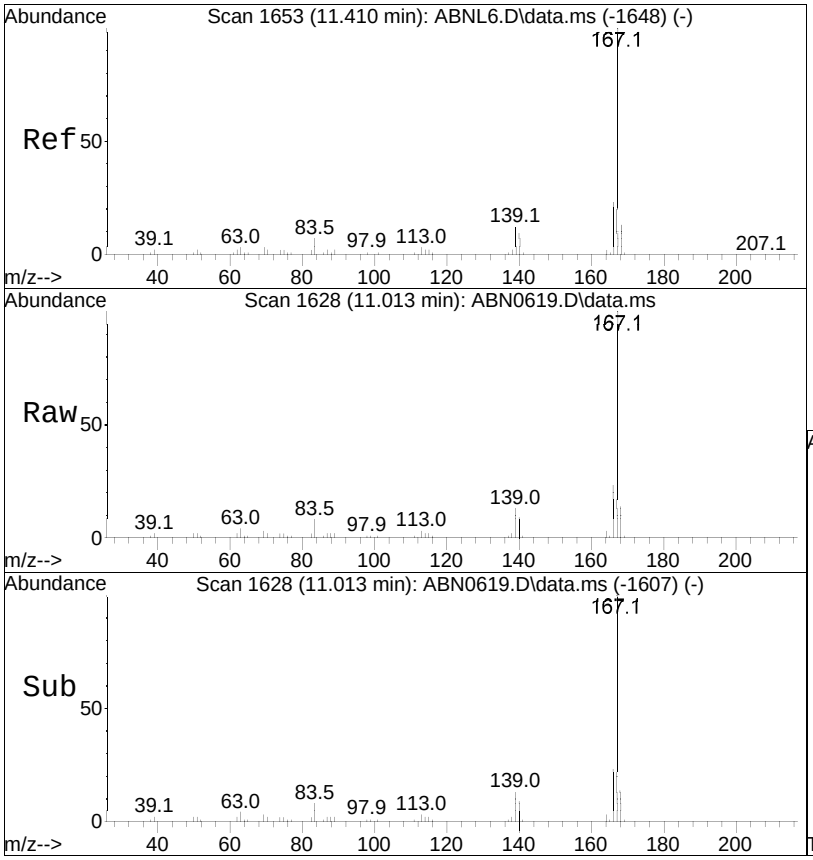


#89
Anthracene
Concen: 5.01 ug/ml
RT: 10.842 min Scan# 1599
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:178 Resp: 319909

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.2	14.6	22.0

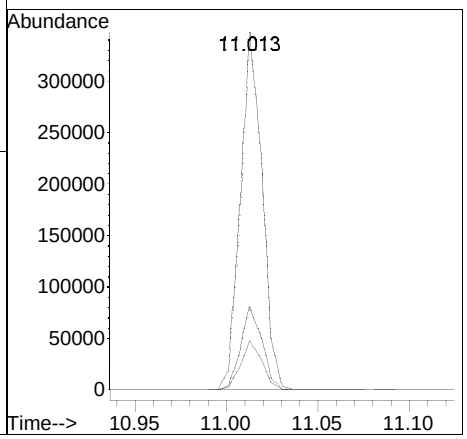


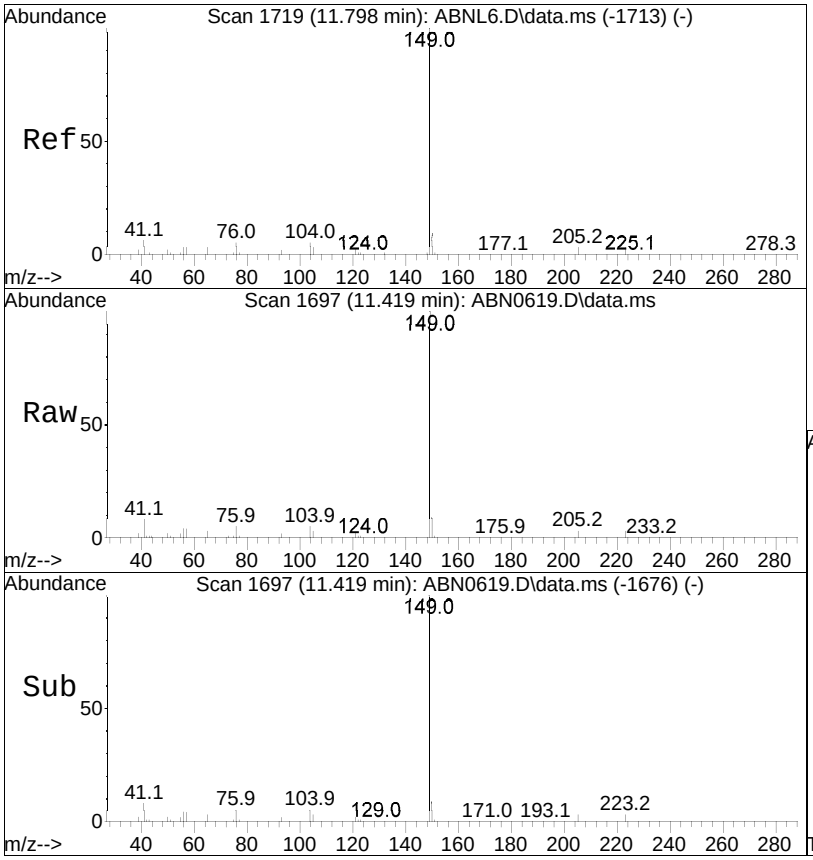


#90
Carbazole
Concen: 4.93 ug/ml
RT: 11.013 min Scan# 1628
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:167 Resp: 283974

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.2	17.4	26.0

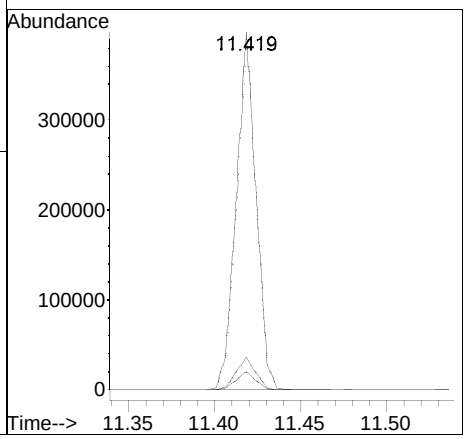


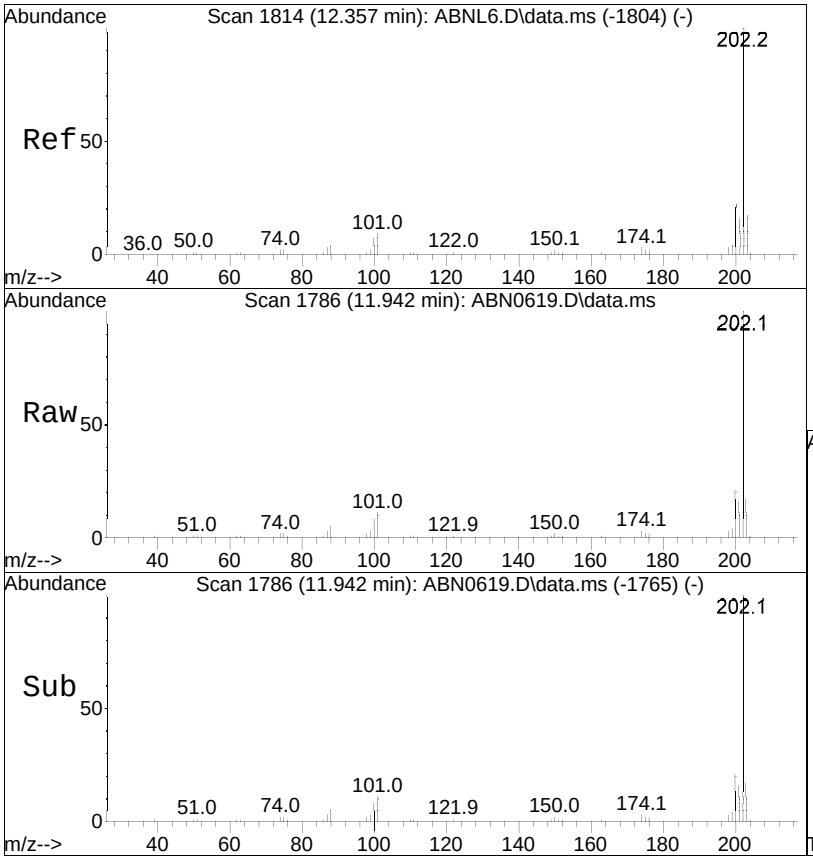


#91
Di-n-butylphthalate
Concen: 4.60 ug/ml
RT: 11.419 min Scan# 1697
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:149 Resp: 310588

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.1	4.5	6.7

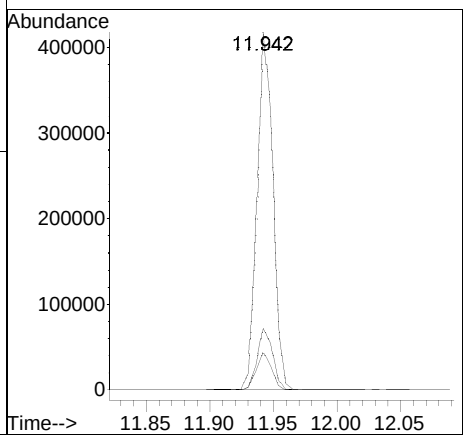


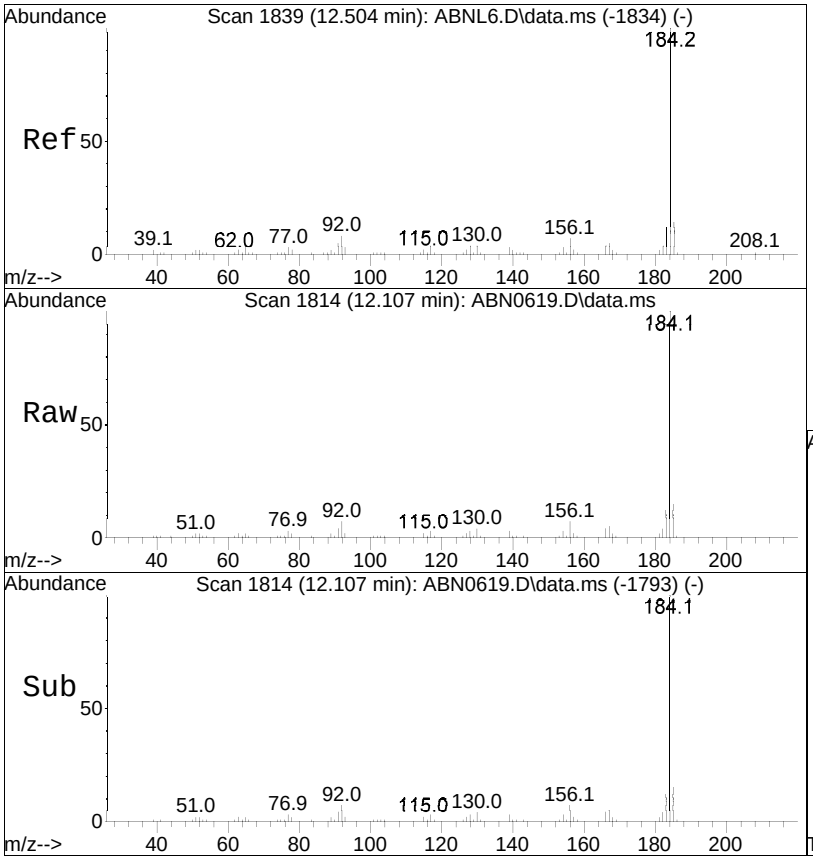


#92
Fluoranthene
Concen: 4.87 ug/ml
RT: 11.942 min Scan# 1786
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:202 Resp: 357761

Ion	Ratio	Lower	Upper
202	100		
101	10.3	13.5	20.3#
203	16.9	13.6	20.4

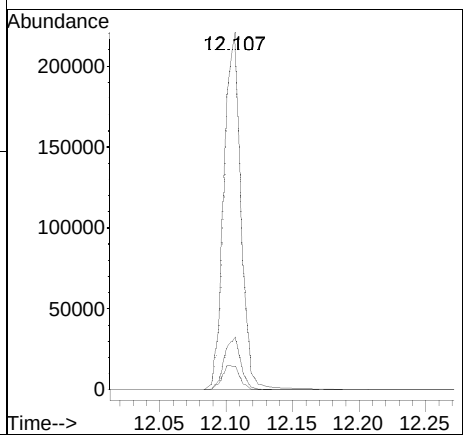


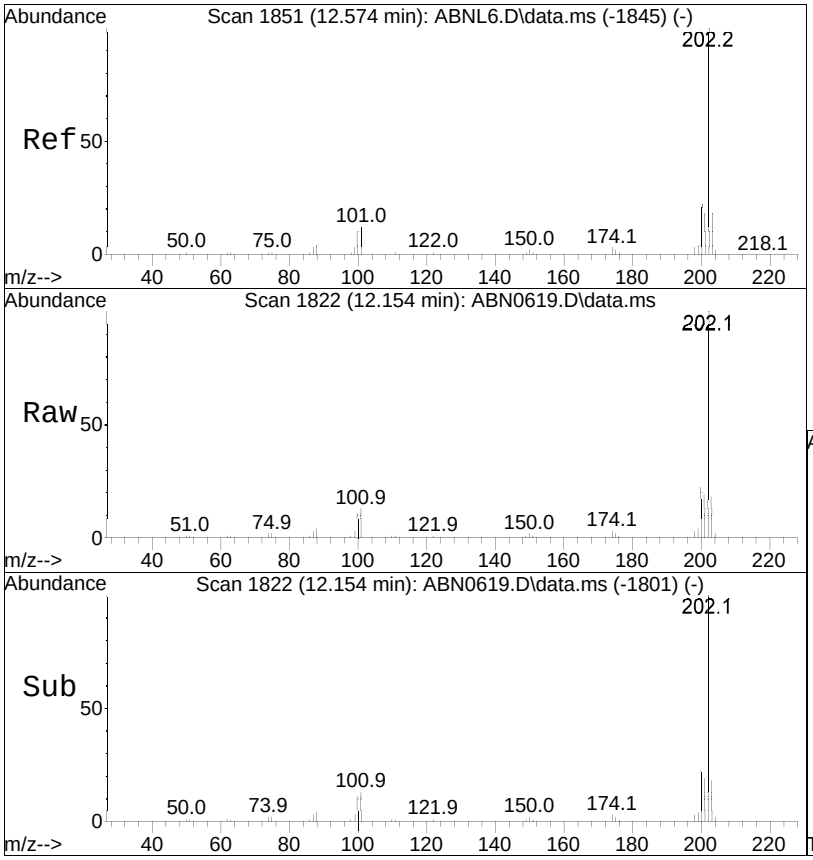


#93
Benzidine
Concen: 4.33 ug/ml
RT: 12.107 min Scan# 1814
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:184 Resp: 193387

Ion	Ratio	Lower	Upper
184	100		
92	7.3	9.1	13.7#
185	14.6	11.1	16.7

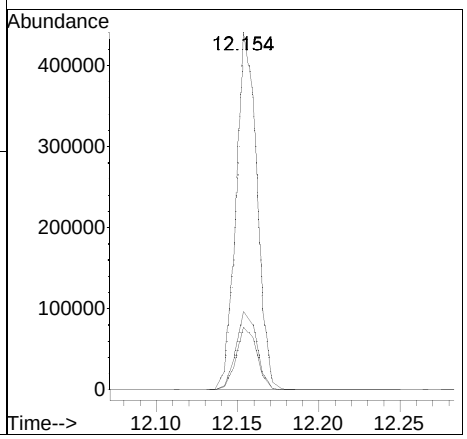


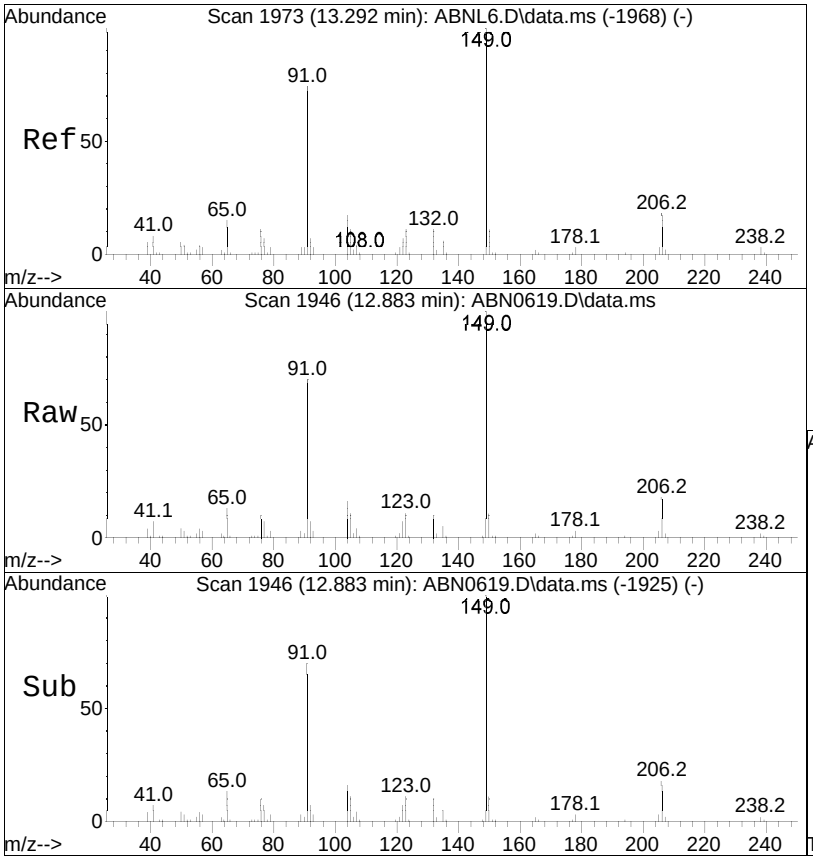


#94
Pyrene
Concen: 4.94 ug/ml
RT: 12.154 min Scan# 1822
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:202 Resp: 388972

Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.7	25.1
203	17.6	14.2	21.4

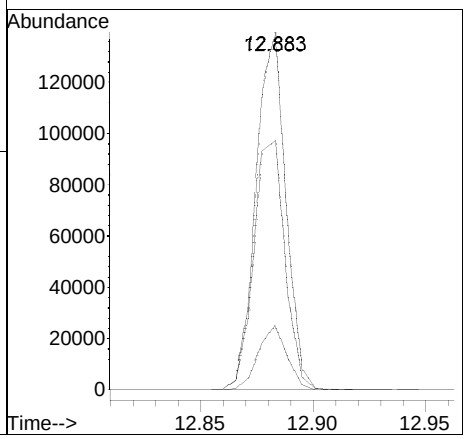


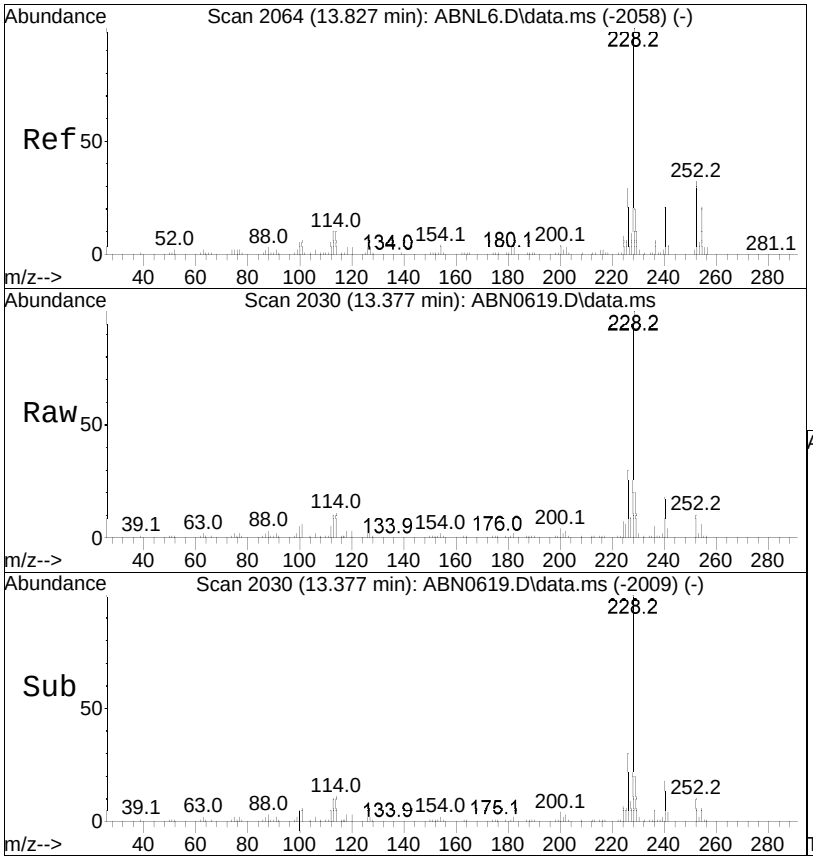


#96
Butyl benzyl phthalate
Concen: 4.04 ug/ml
RT: 12.883 min Scan# 1946
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:149 Resp: 126626

Ion	Ratio	Lower	Upper
149	100		
91	73.6	63.3	94.9
206	17.4	13.9	20.9

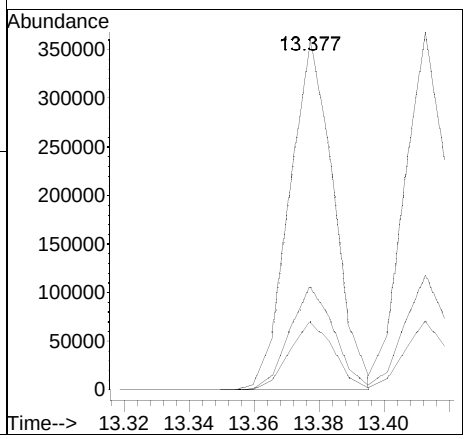


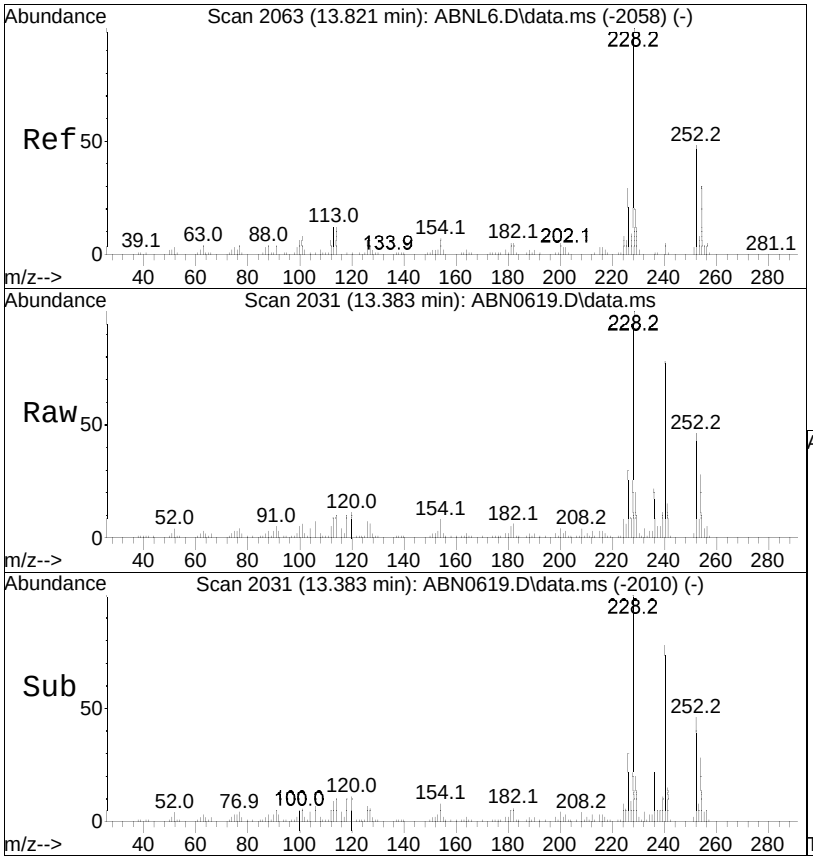


#104
Benzo(a)anthracene
Concen: 4.85 ug/ml
RT: 13.377 min Scan# 2030
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:228 Resp: 341105

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.2	33.4
229	19.6	15.6	23.4

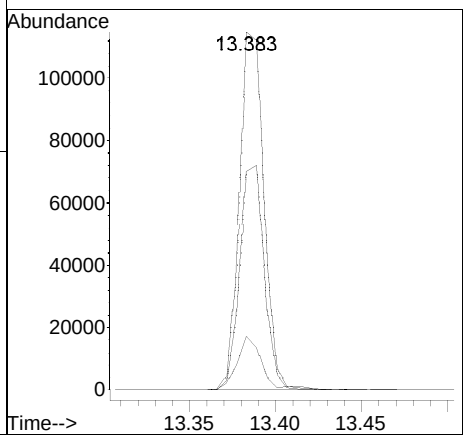


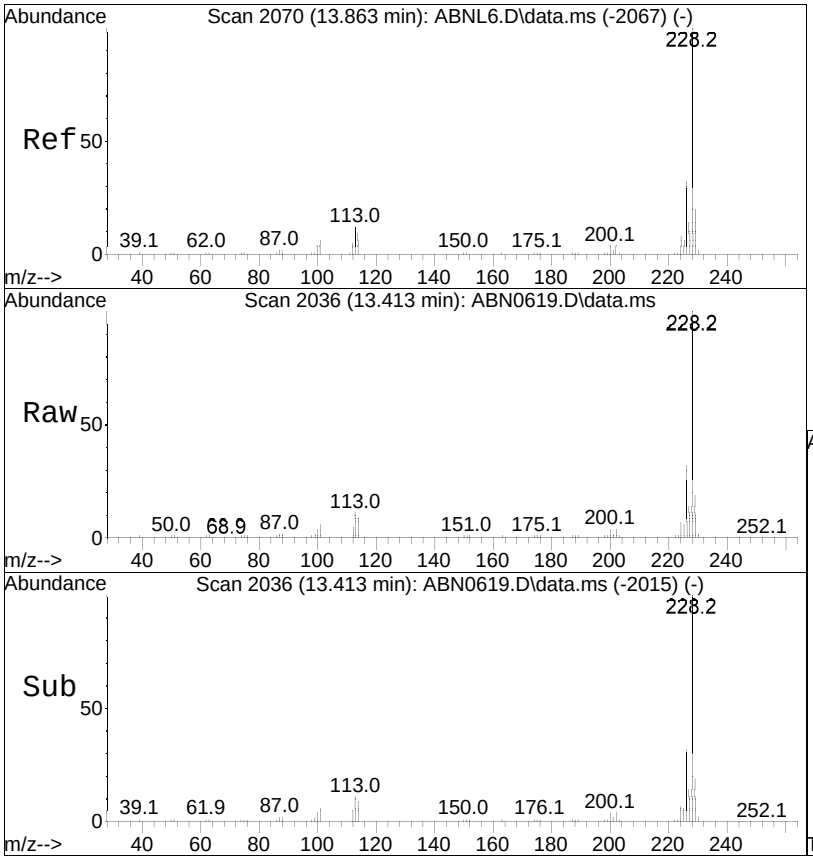


#105
3,3'-Dichlorobenzidine
Concen: 4.99 ug/ml
RT: 13.383 min Scan# 2031
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:252 Resp: 112967

Ion	Ratio	Lower	Upper
252	100		
126	15.6	14.5	21.7
254	62.9	51.2	76.8

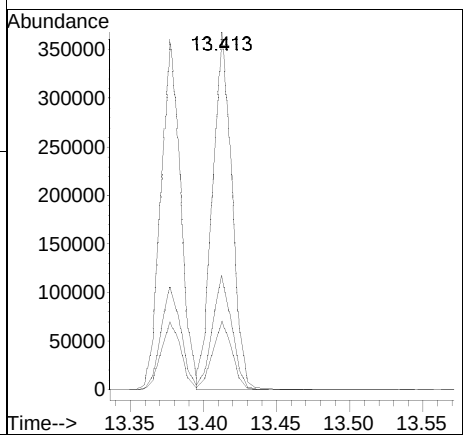


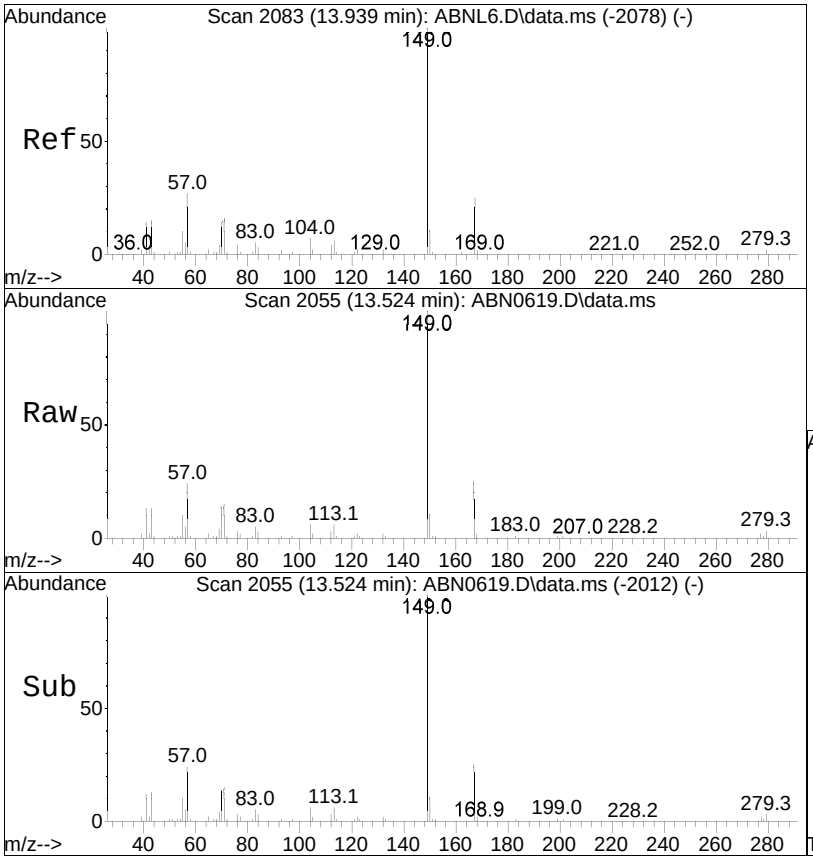


#106
Chrysene
Concen: 5.07 ug/ml
RT: 13.413 min Scan# 2036
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:228 Resp: 340864

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.0	36.0
229	19.1	15.8	23.8

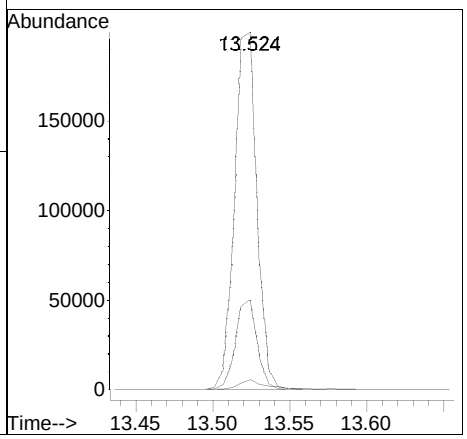


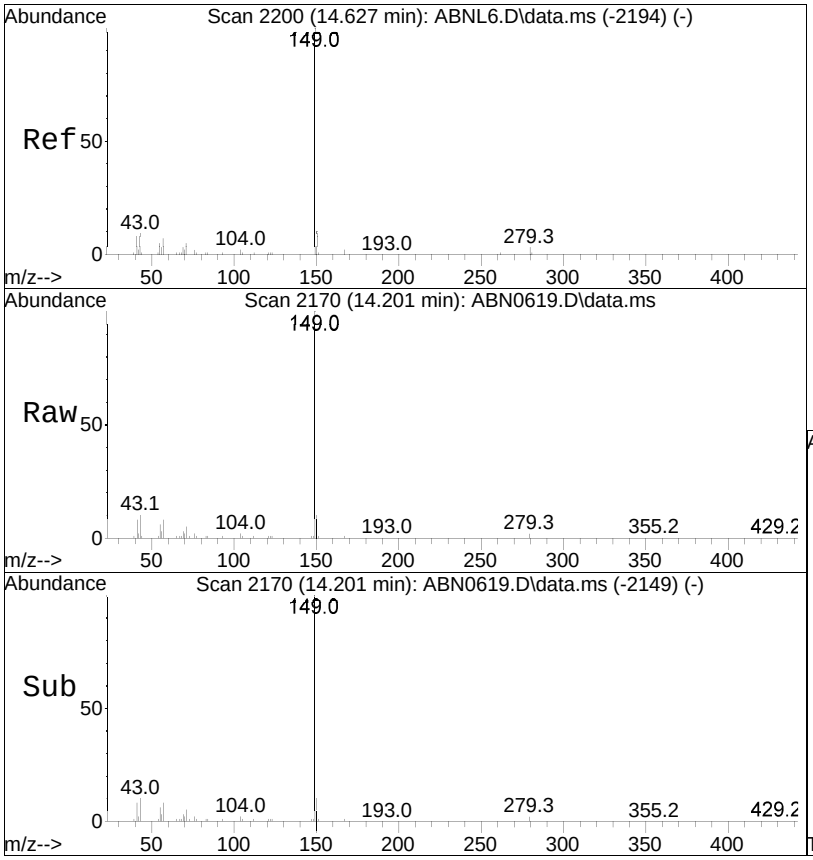


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.40 ug/ml
RT: 13.524 min Scan# 2055
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:149 Resp: 198509

Ion	Ratio	Lower	Upper
149	100		
167	24.2	22.1	33.1
279	2.9	3.0	4.4#

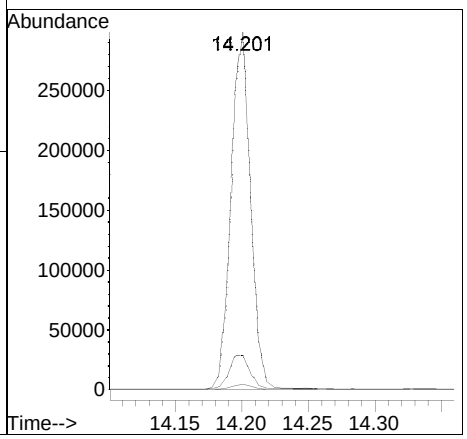


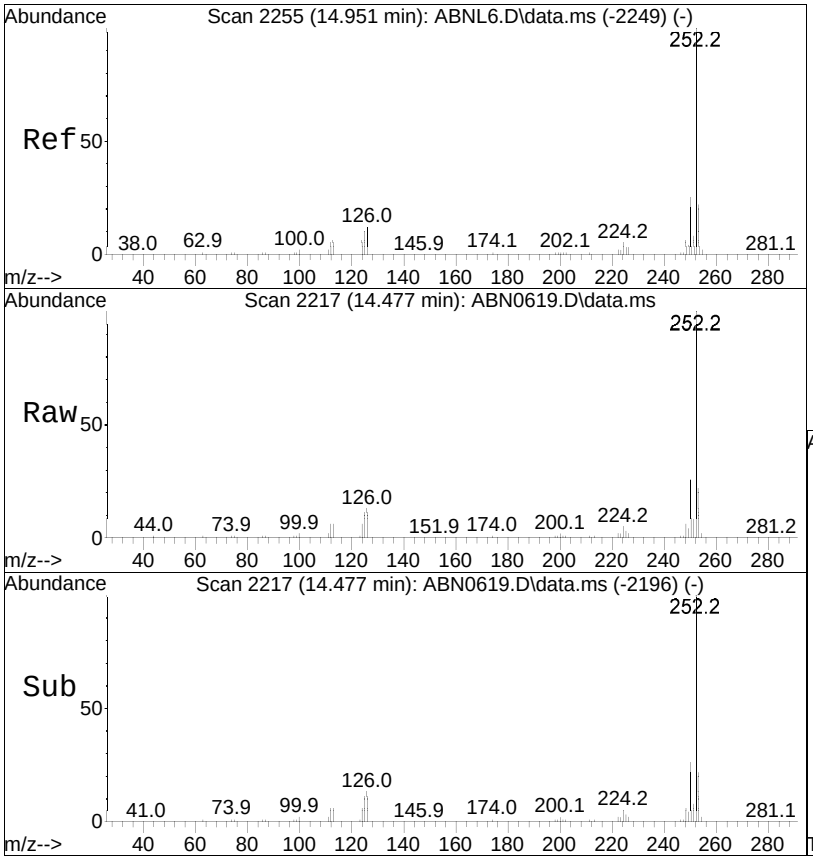


#108
Di-n-octylphthalate
Concen: 4.13 ug/ml
RT: 14.201 min Scan# 2170
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:149 Resp: 299308

Ion	Ratio	Lower	Upper
149	100		
43	10.4	18.8	28.2#
167	1.4	1.3	1.9

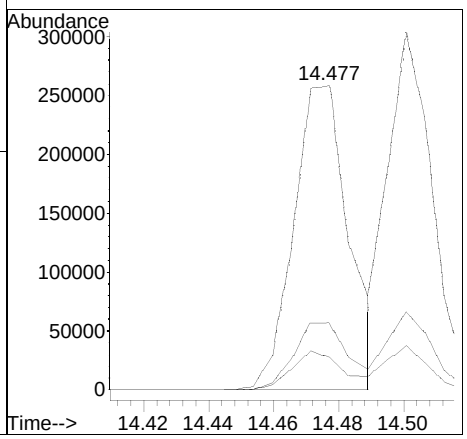


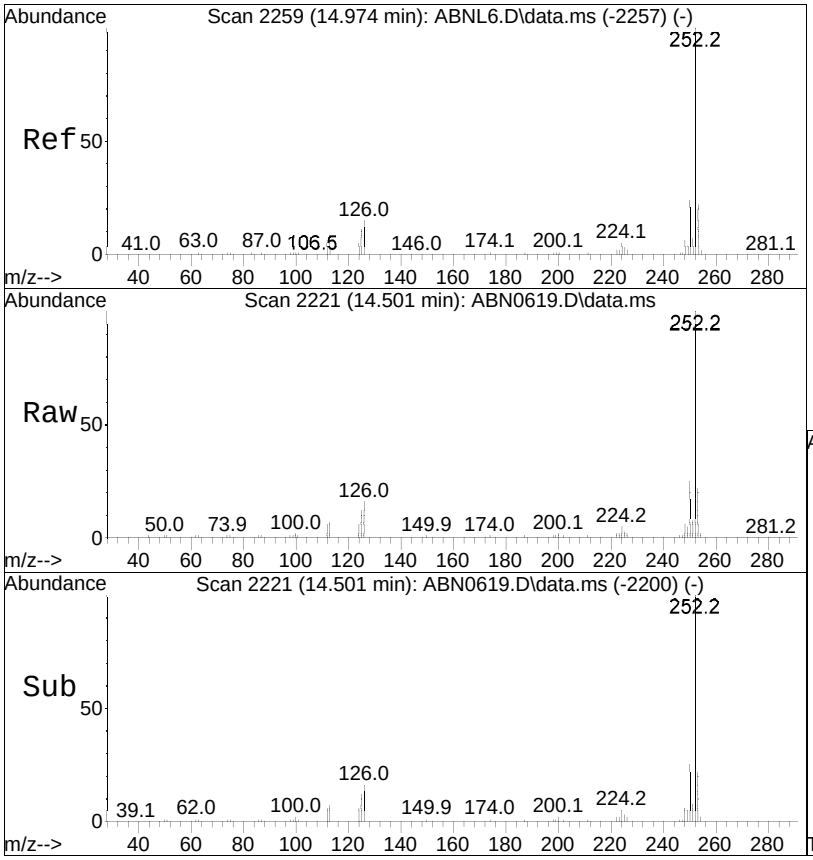


#109
Benzo(b)fluoranthene
Concen: 4.95 ug/ml
RT: 14.477 min Scan# 2217
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:252 Resp: 306948

Ion	Ratio	Lower	Upper
252	100		
125	12.3	13.3	19.9#
253	22.0	17.1	25.7

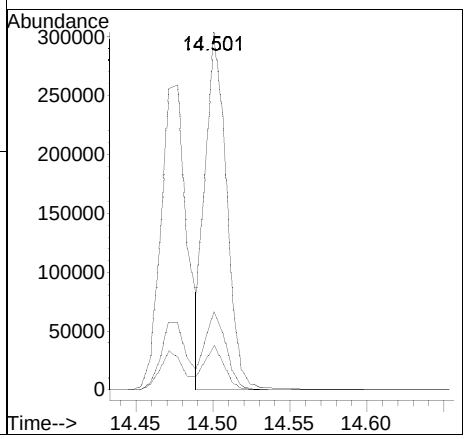


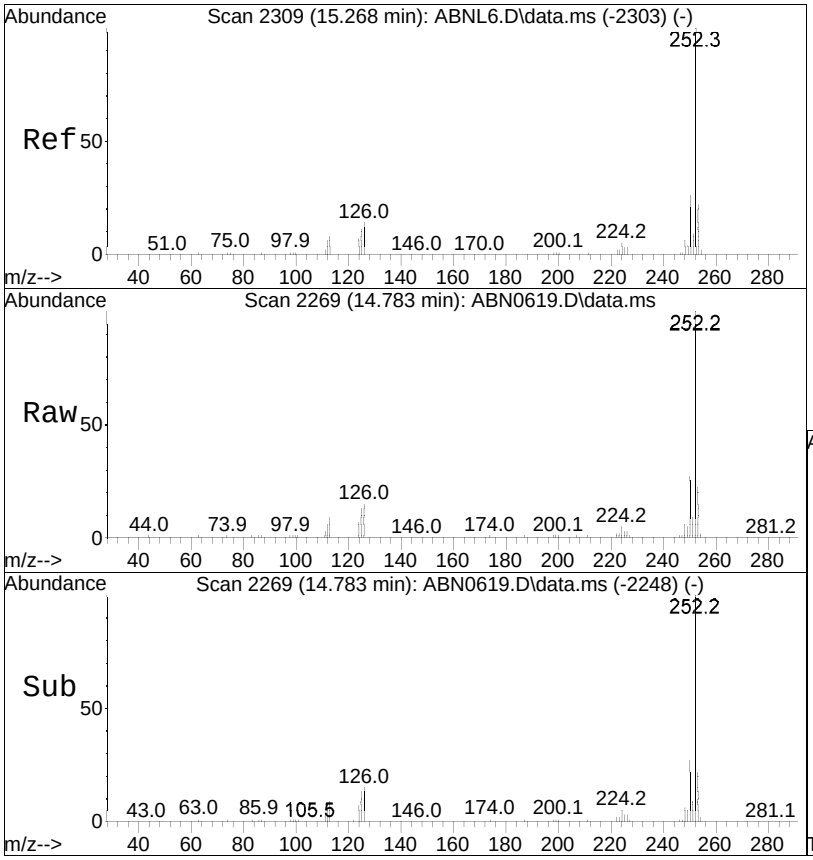


#110
Benzo(k)fluoranthene
Concen: 4.77 ug/ml
RT: 14.501 min Scan# 2221
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:252 Resp: 289901

Ion	Ratio	Lower	Upper
252	100		
125	11.6	13.0	19.6#
253	21.7	16.8	25.2

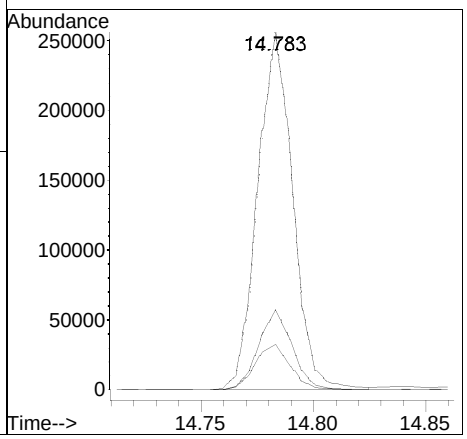


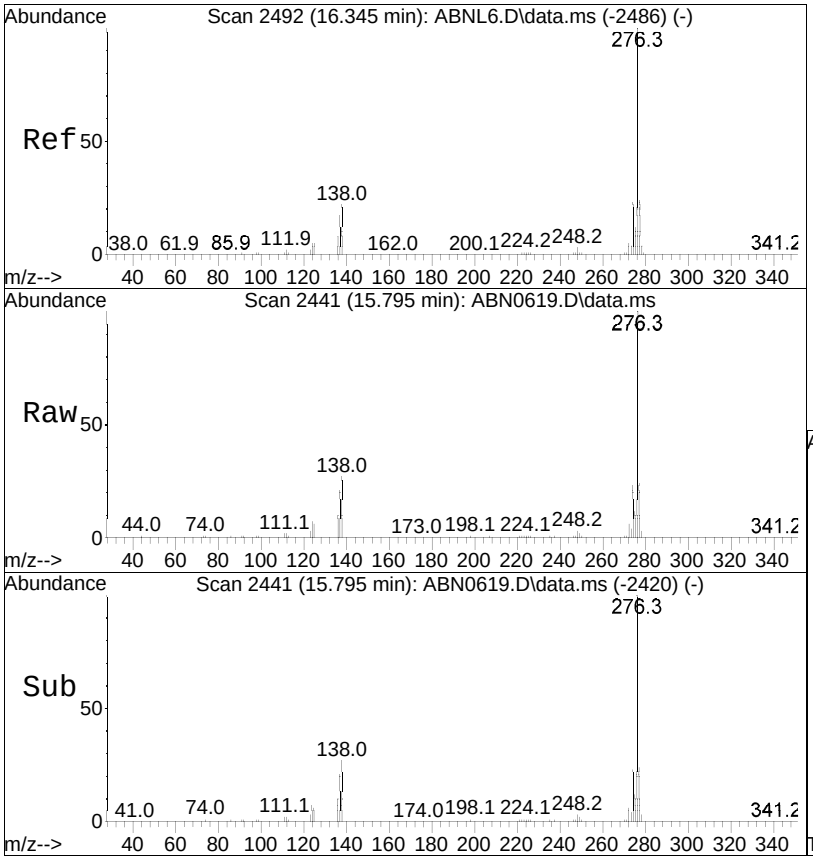


#111
Benzo(a)pyrene
Concen: 5.09 ug/ml
RT: 14.783 min Scan# 2269
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:252 Resp: 274819

Ion	Ratio	Lower	Upper
252	100		
125	13.2	14.2	21.2#
253	21.8	16.9	25.3

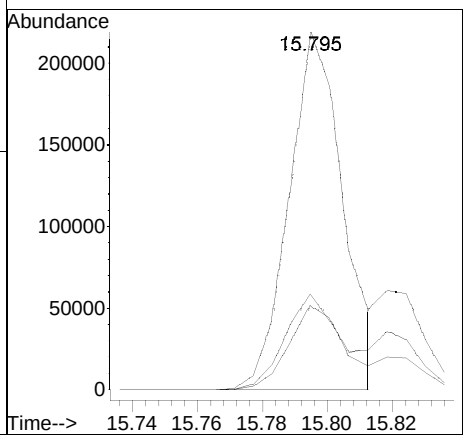


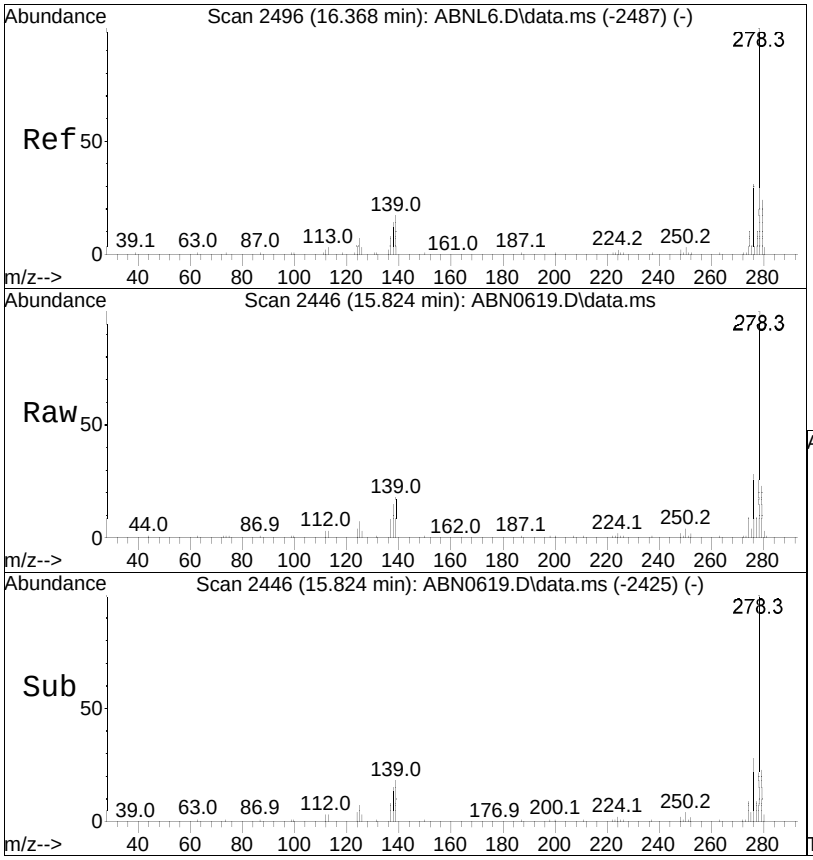


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.34 ug/mL M6
RT: 15.795 min Scan# 2441
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:276 Resp: 253204

Ion	Ratio	Lower	Upper
276	100		
138	29.2	25.1	37.7
277	24.3	18.6	28.0

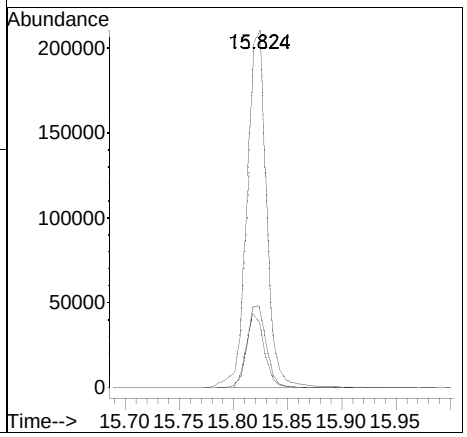


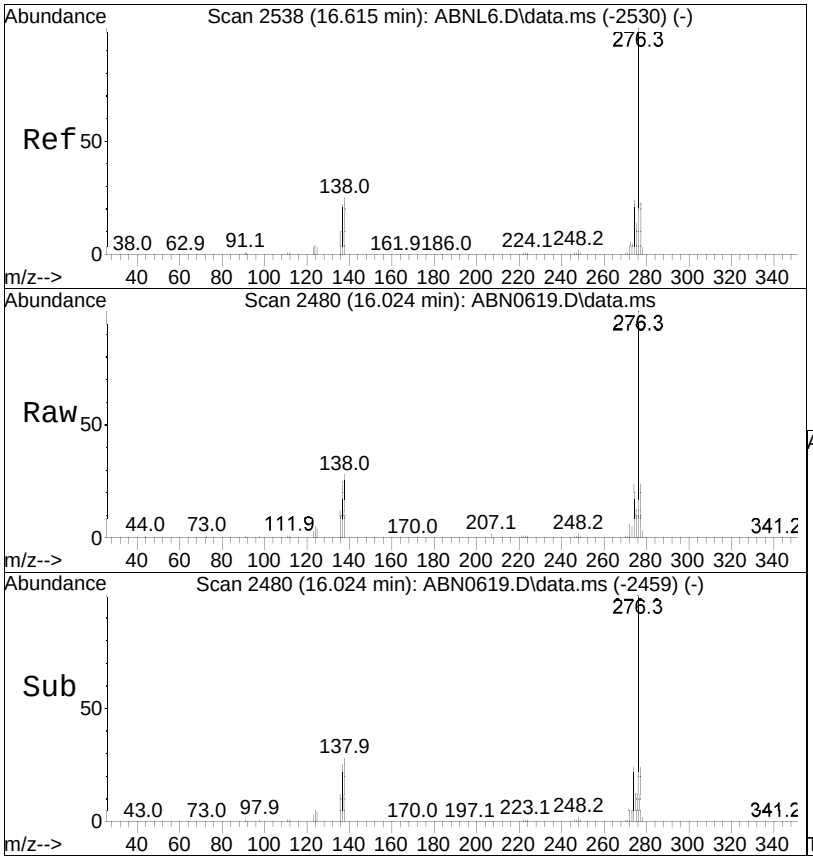


#114
Dibenzo(a,h)anthracene
Concen: 5.50 ug/ml
RT: 15.824 min Scan# 2446
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:278 Resp: 261031

Ion	Ratio	Lower	Upper
278	100		
139	19.7	20.8	31.2#
279	22.9	18.3	27.5

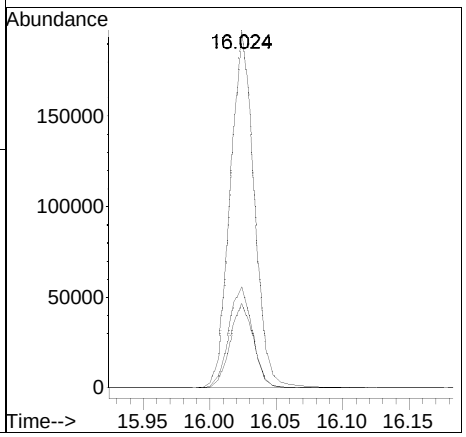




#115
Benzo(ghi)perylene
Concen: 5.35 ug/ml
RT: 16.024 min Scan# 2480
Delta R.T. 0.000 min
Lab File: ABN0619.D
Acq: 19 Jun 2024 10:07 am

Tgt Ion:276 Resp: 247240

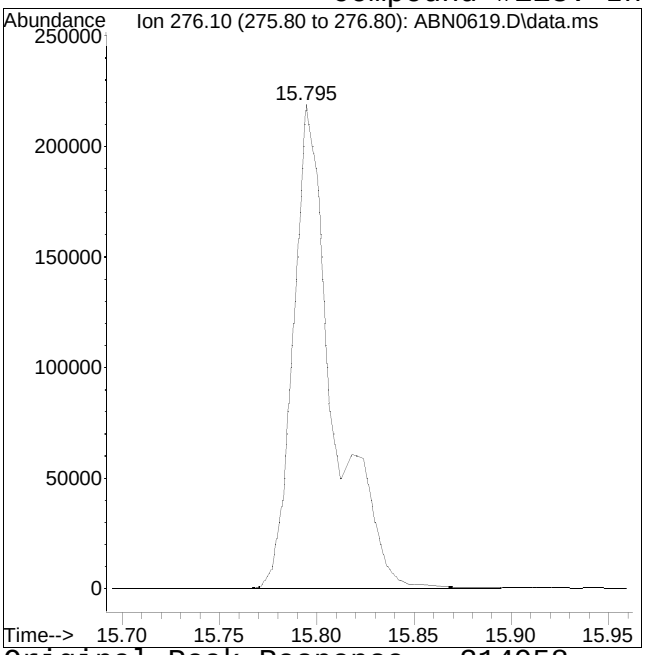
Ion	Ratio	Lower	Upper
276	100		
138	28.3	29.2	43.8#
277	23.6	18.8	28.2



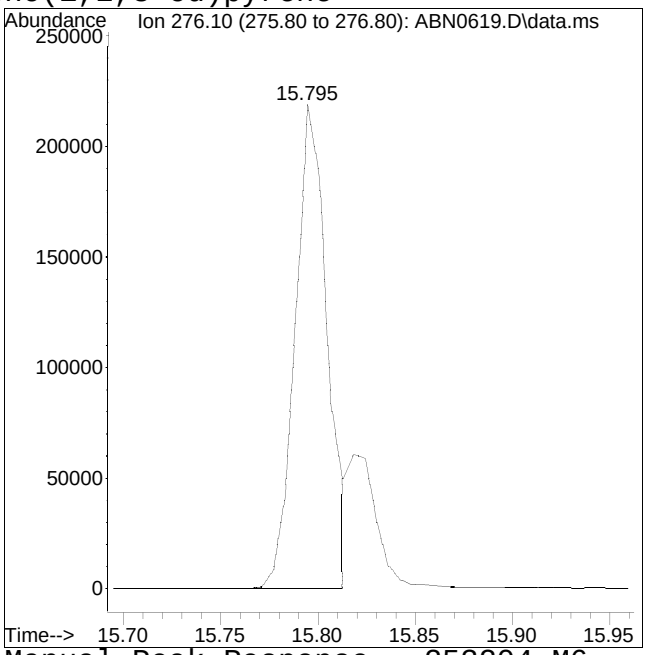
Manual Integration Report

Data Path : I:\8270\SV107\240619RVT\ QMethod : FS240602SV107RVT.m
Data File : ABN0619.D Operator : SV107:im
Date Inj'd : 6/19/2024 10:07 am Instrument : SV107
Sample : WG1936476-3,32,,ABN 10805 Quant Date : 6/19/2024 11:07 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 314958



Manual Peak Response = 253204 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240619RVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 10:32 am
Operator : SV107:im
Sample : WG1936476-4,32,,AP9 10770 gmr0616A
Misc : WG1936476,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 11:08:18 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:08:48 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	117	0.00
28	T	Benzaldehyde		1.024	1.156	-12.9	141	0.00
29	T	Acetophenone		1.770	1.995	-12.7	137	0.00
30	T	m-Toluidine		1.599	1.951	-22.0#	140	0.00
31	T	2-Chloroaniline		1.546	1.774	-14.7	138	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	111	0.00
55	T	a-Terpineol		0.276	0.329	-19.2	142	0.00
56	T	3-Chloroaniline		0.147	0.182	-23.8#	146	0.00
57	T	2,6-Dichlorophenol		0.290	0.356	-22.8#	141	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.156	-28.9#	156	0.00
59	T	Caprolactam		0.149	0.177	-18.8	139	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.434	-8.0	131	0.00
61	T	Biphenyl		0.929	1.025	-10.3	134	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	111	0.00
83	T	Dichloran	*	5.000	6.082	-21.6#	166	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.875	-17.5	148	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	107	0.00
98	T	Diphenamid		0.445	0.475	-6.7	118	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 10:32 am
Operator : SV107:im
Sample : WG1936476-4,32,,AP9 10770 gmr0616A
Misc : WG1936476,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 11:08:18 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:08:48 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.095	152	51997	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.566	136	189031	4.000	ug/ml		0.00
82) IS2_Acenaphthene-d10	9.336	164	110445	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	10.772	188	231080	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.478	105	75168	5.648	ug/ml		99
29) Acetophenone	6.619	105	129678	5.636	ug/ml	#	84
30) m-Toluidine	6.725	106	126785	6.099	ug/ml		94
31) 2-Chloroaniline	7.136	127	115281	5.735	ug/ml		94
55) a-Terpineol	7.648	59	77738	5.952	ug/ml	#	81
56) 3-Chloroaniline	7.660	65	43043	6.180	ug/ml		82
57) 2,6-Dichlorophenol	7.684	162	84005	6.131	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	7.954	111	36945	6.452	ug/ml	#	1
59) Caprolactam	7.995	55	41885	5.943	ug/ml	#	75
60) 1,2,4,5-Tetrachloroben...	8.489	216	102470	5.393	ug/ml		98
61) Biphenyl	8.795	154	242083	5.514	ug/ml		99
83) Dichloran	10.472	206	23349	6.082	ug/ml	#	71
84) Pentachloronitrobenzene	10.624	237	24631	5.875	ug/ml	#	85
98) Diphenamid	11.689	167	137282	5.340	ug/ml		85

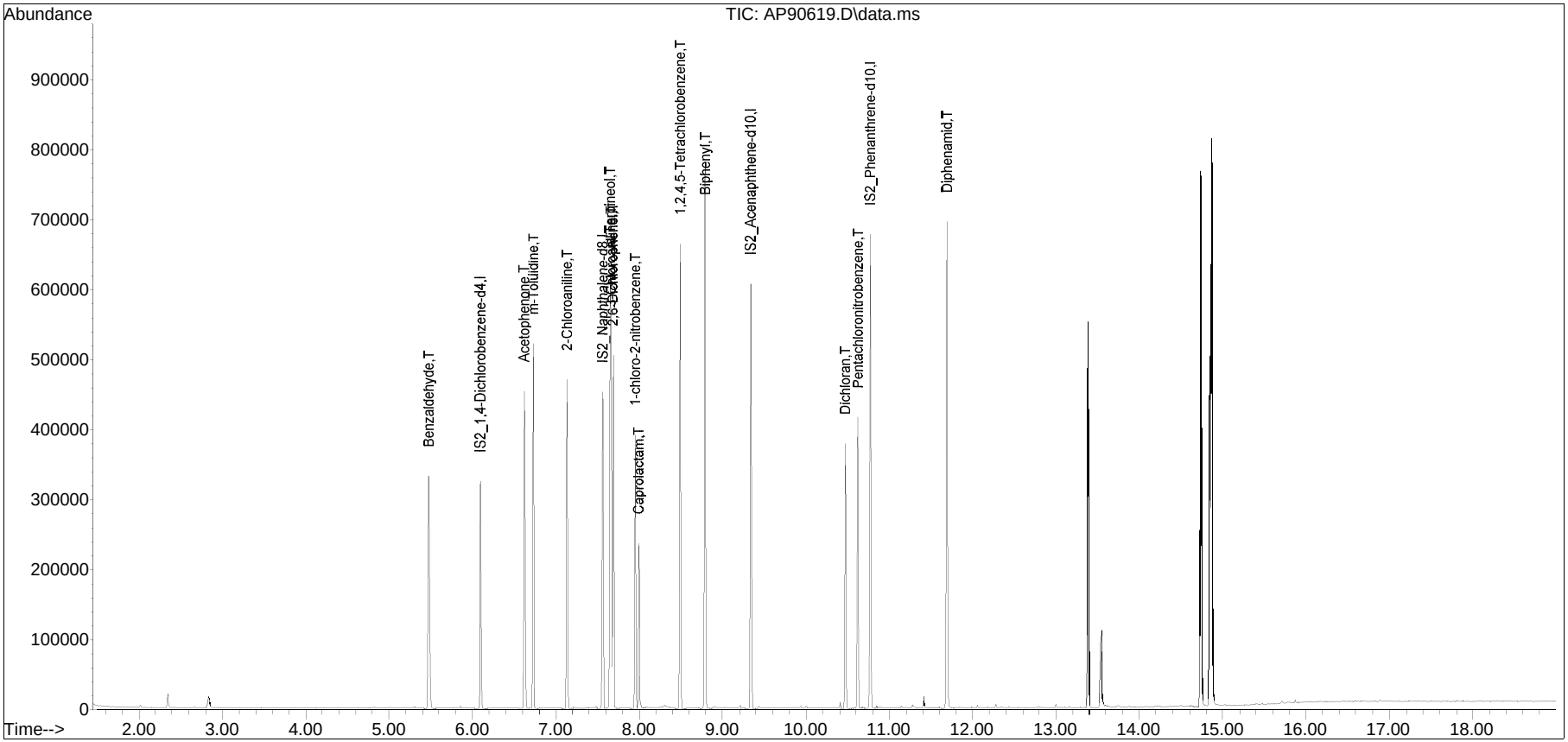
(#) = qualifier out of range (m) = manual integration (+) = signals summed

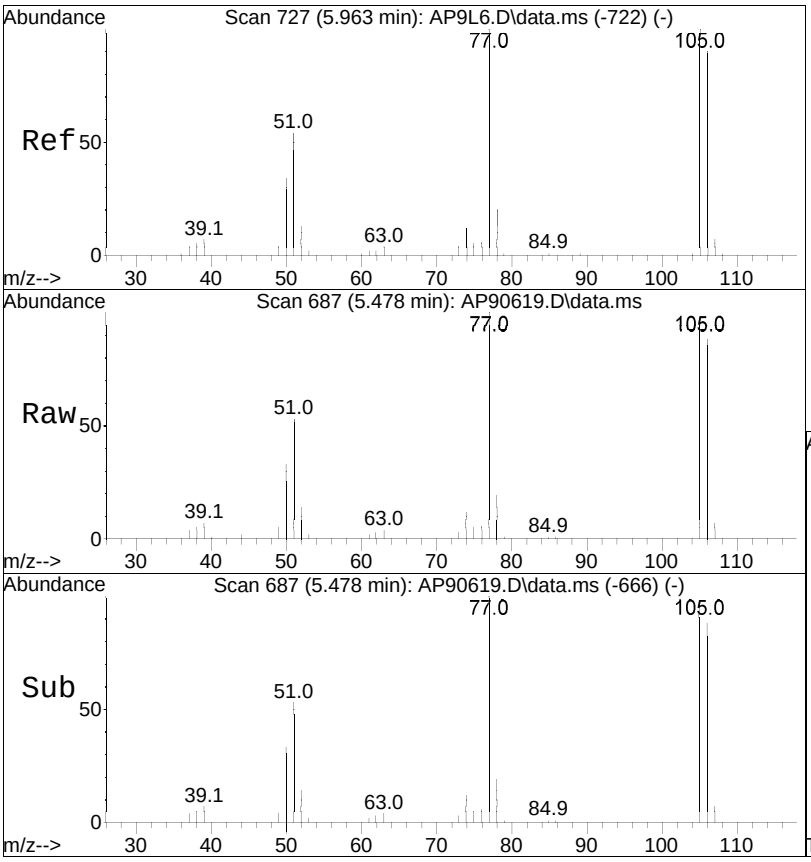
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : AP90619.D
Acq On : 19 Jun 2024 10:32 am
Operator : SV107:im
Sample : WG1936476-4,32,,AP9 10770 gmr0616A
Misc : WG1936476,,ical21169
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Jun 19 11:08:18 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:08:48 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

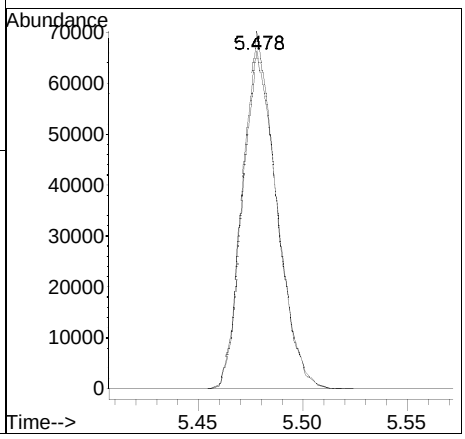


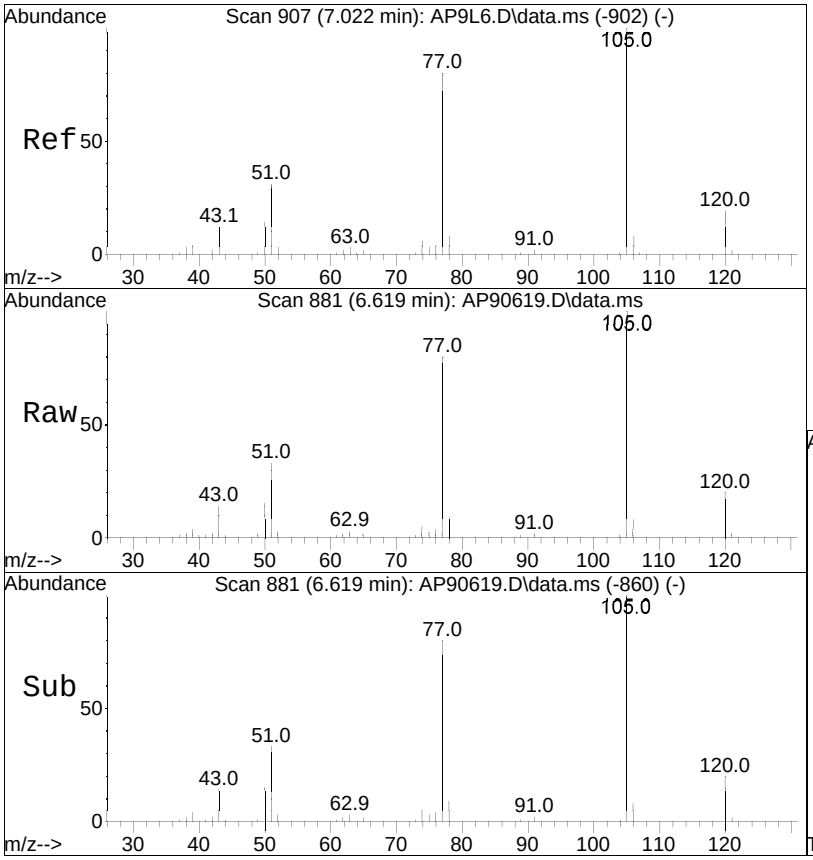


#28
Benzaldehyde
Concen: 5.65 ug/ml
RT: 5.478 min Scan# 687
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:105 Resp: 75168

Ion	Ratio	Lower	Upper
105	100		
77	103.4	82.2	123.4

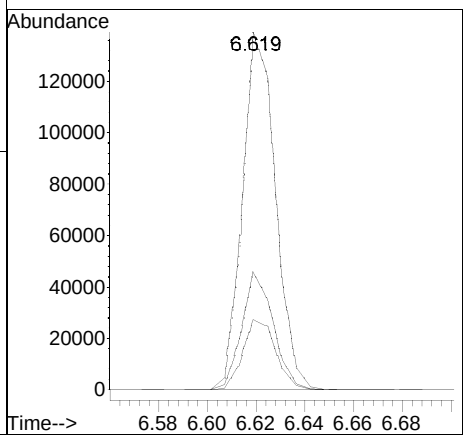


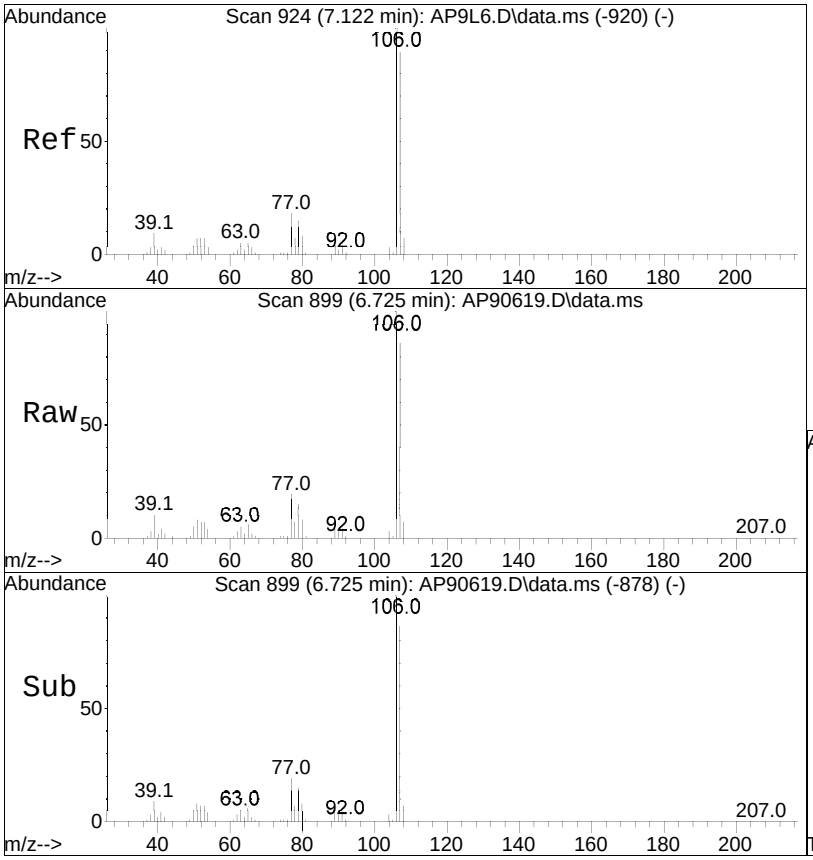


#29
Acetophenone
Concen: 5.64 ug/ml
RT: 6.619 min Scan# 881
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:105 Resp: 129678

Ion	Ratio	Lower	Upper
105	100		
120	19.7	20.5	30.7#
51	31.7	34.9	52.3#

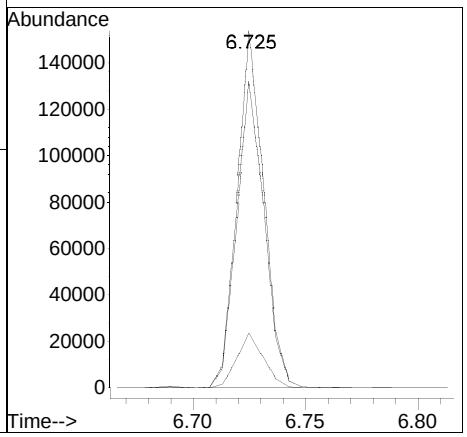


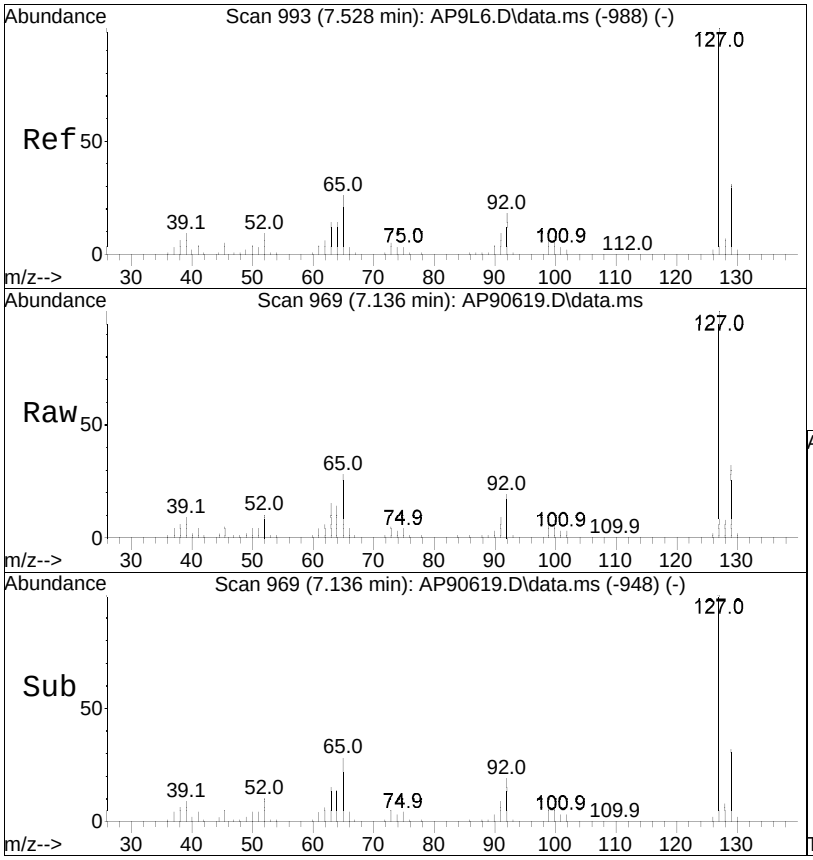


#30
m-Toluidine
Concen: 6.10 ug/ml
RT: 6.725 min Scan# 899
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:106 Resp: 126785

Ion	Ratio	Lower	Upper
106	100		
107	88.2	75.7	113.5
79	15.4	11.8	17.8

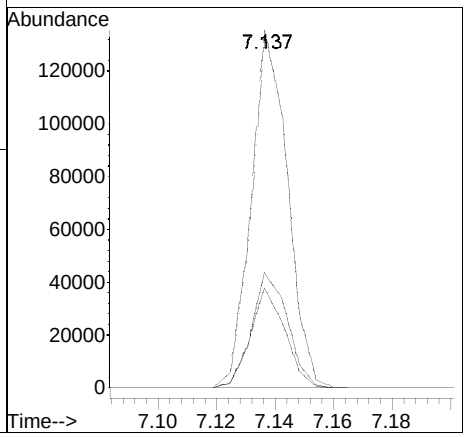


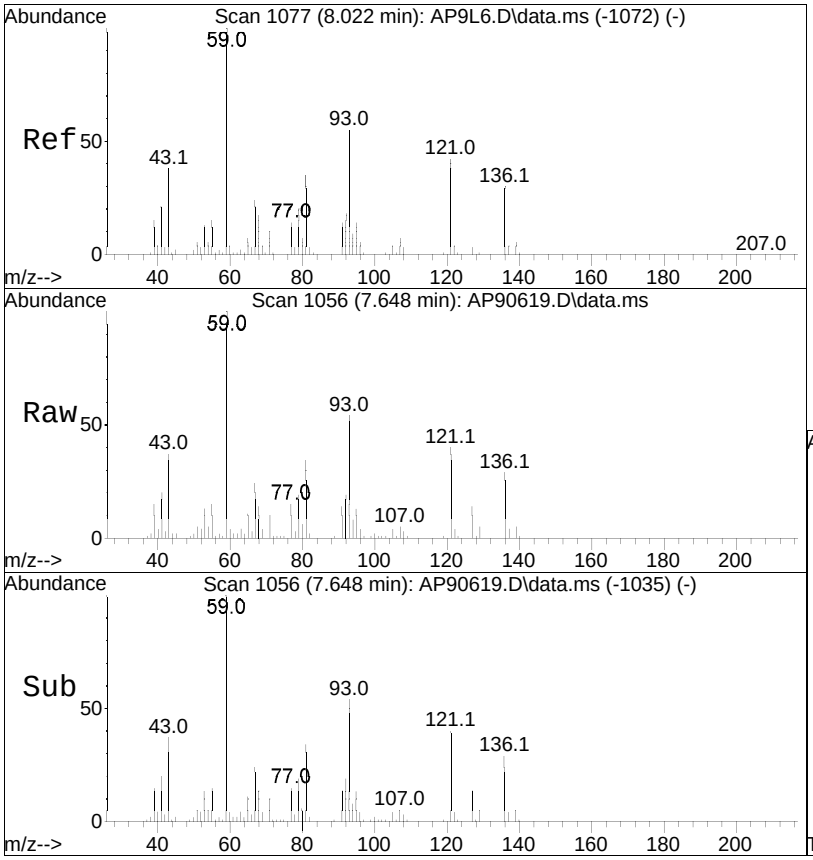


#31
2-Chloroaniline
Concen: 5.73 ug/ml
RT: 7.136 min Scan# 969
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:127 Resp: 115281

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.9	38.9
65	26.9	26.3	39.5

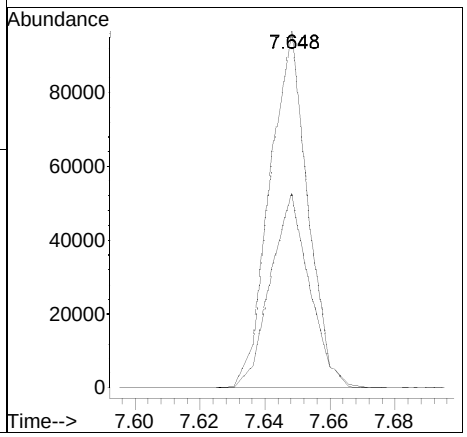


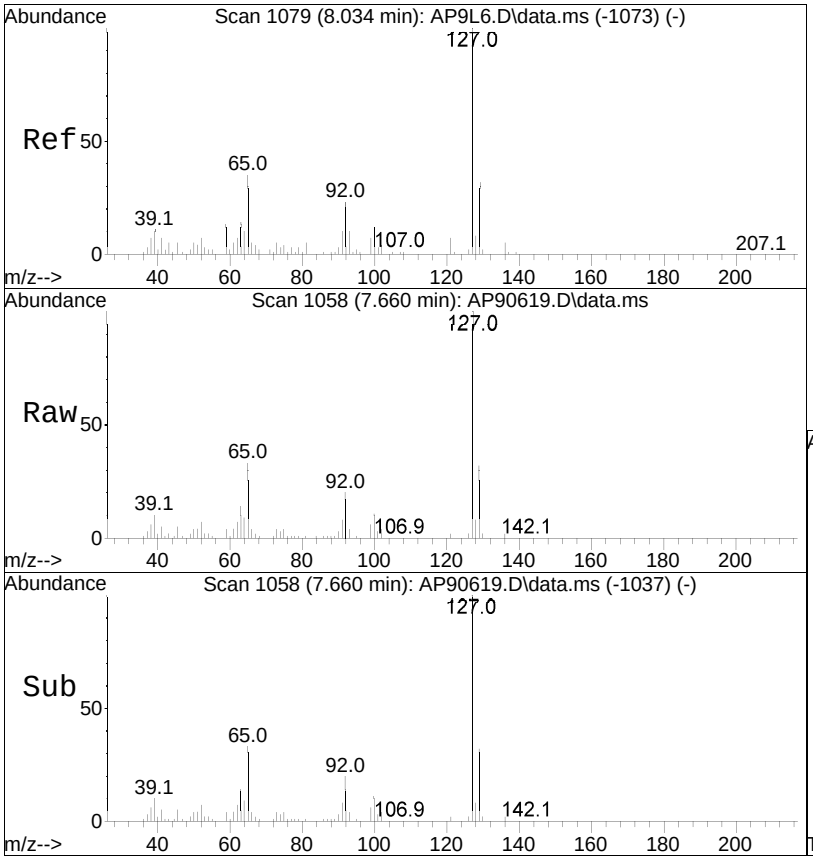


#55
a-Terpineol
Concen: 5.95 ug/ml
RT: 7.648 min Scan# 1056
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion: 59 Resp: 77738

Ion	Ratio	Lower	Upper
59	100		
93	56.9	35.6	53.4#

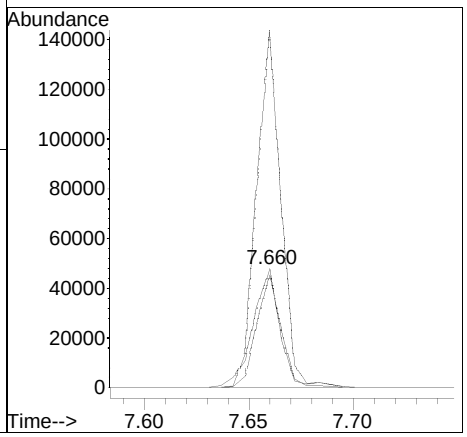


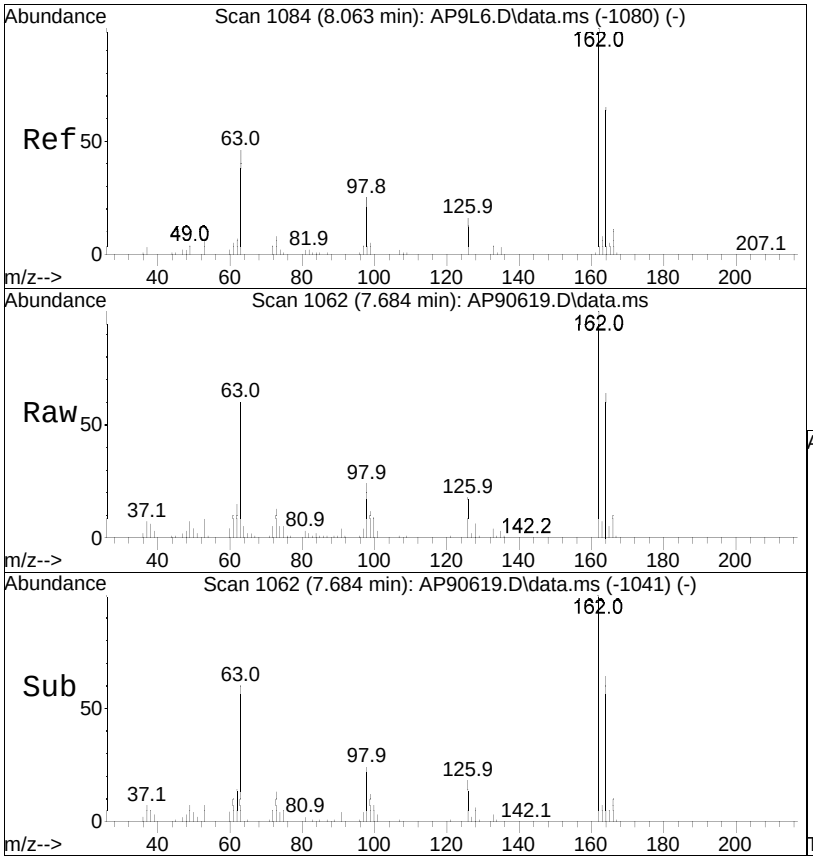


#56
3-Chloroaniline
Concen: 6.18 ug/ml
RT: 7.660 min Scan# 1058
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion: 65 Resp: 43043

Ion	Ratio	Lower	Upper
65	100		
127	265.3	243.2	364.8
129	85.1	78.8	118.2

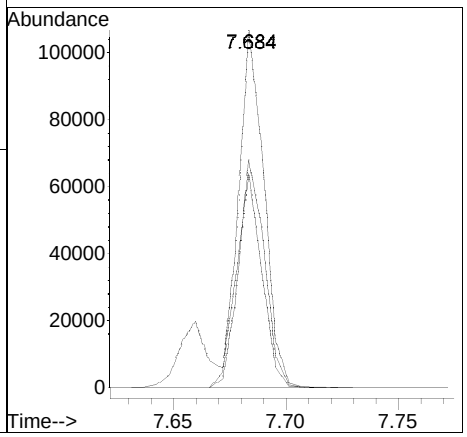


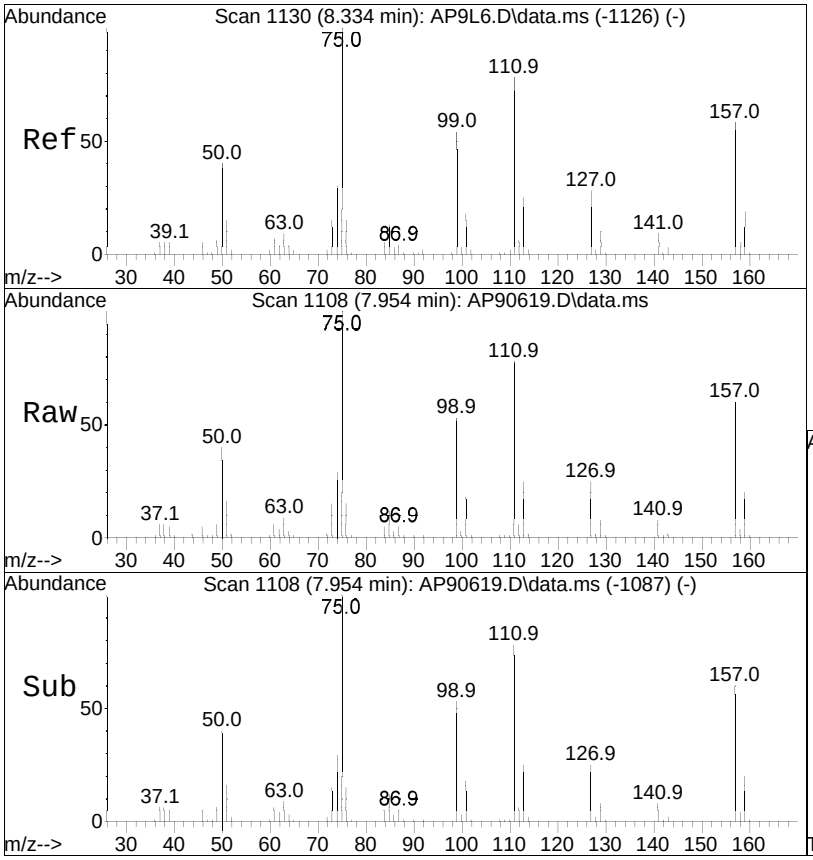


#57
2,6-Dichlorophenol
Concen: 6.13 ug/ml
RT: 7.684 min Scan# 1062
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:162 Resp: 84005

Ion	Ratio	Lower	Upper
162	100		
164	64.5	51.1	76.7
63	57.3	60.8	91.2#

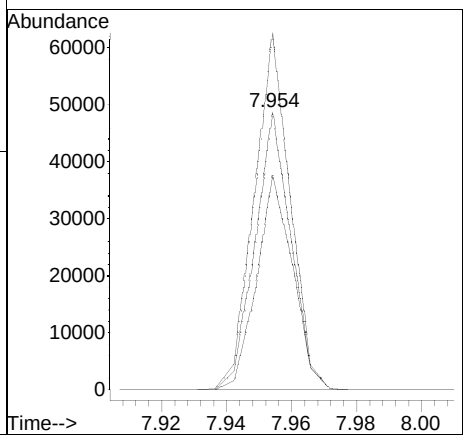


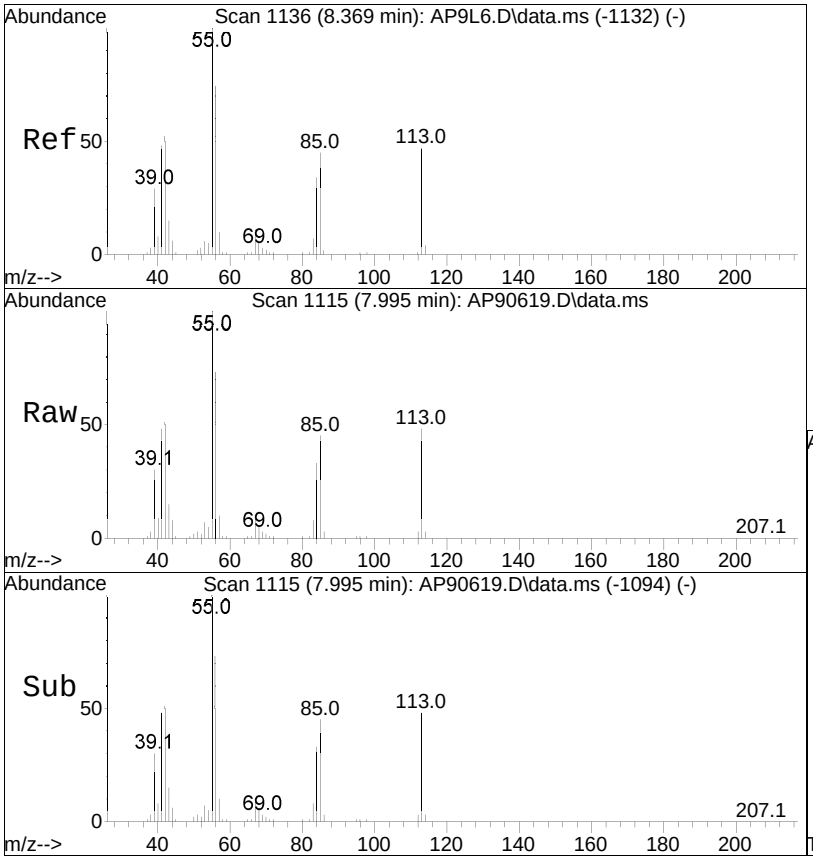


#58
1-chloro-2-nitrobenzene
Concen: 6.45 ug/ml
RT: 7.954 min Scan# 1108
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:111 Resp: 36945

Ion	Ratio	Lower	Upper
111	100		
157	77.8	0.0	0.0#
75	128.9	28.2	42.2#

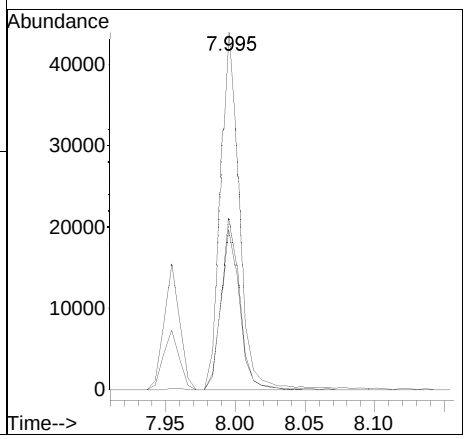


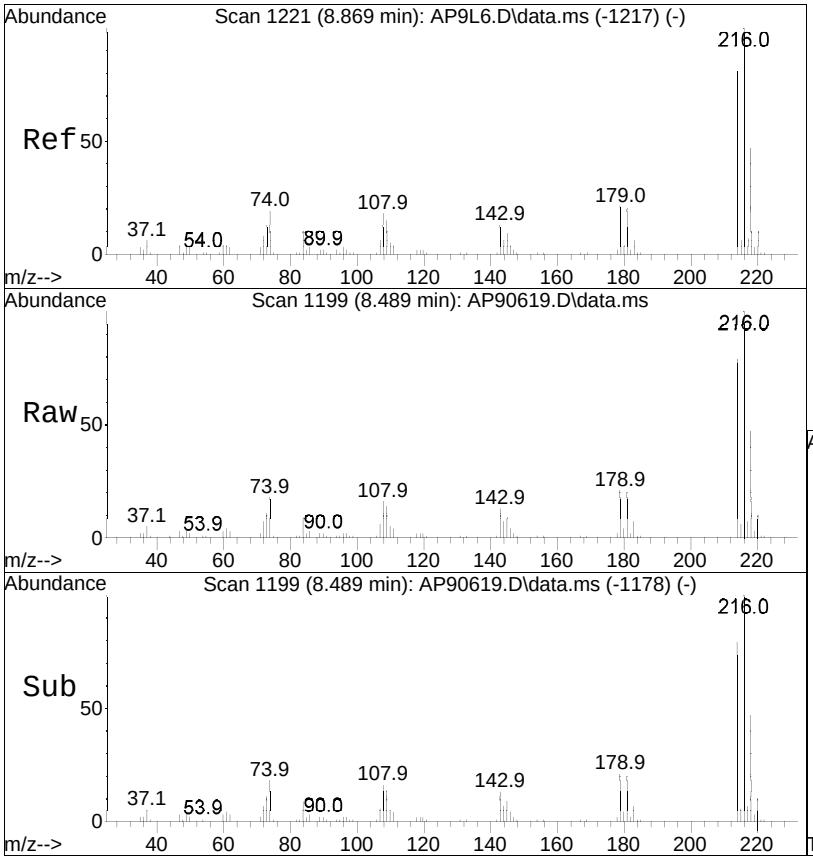


#59
Caprolactam
Concen: 5.94 ug/ml
RT: 7.995 min Scan# 1115
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion: 55 Resp: 41885

Ion	Ratio	Lower	Upper
55	100		
85	44.1	19.8	29.6#
113	46.5	29.6	44.4#

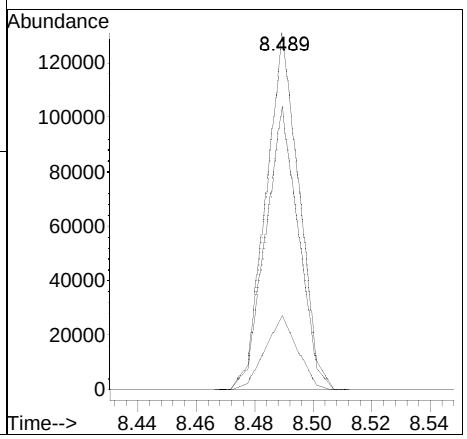


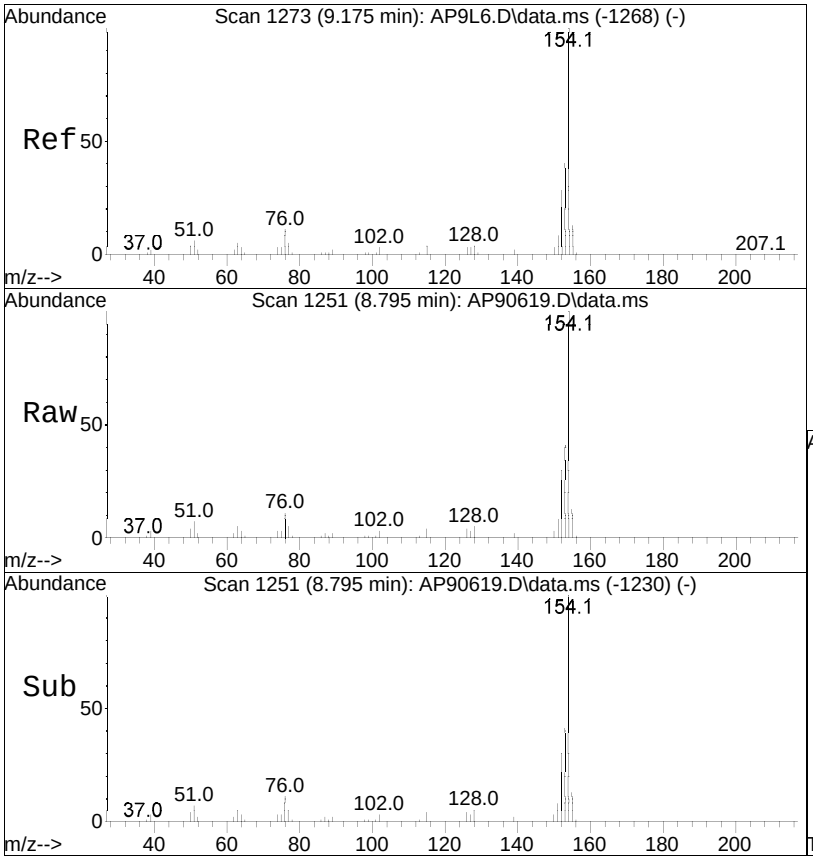


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.39 ug/ml
RT: 8.489 min Scan# 1199
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:216 Resp: 102470

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	20.6	19.0	28.6

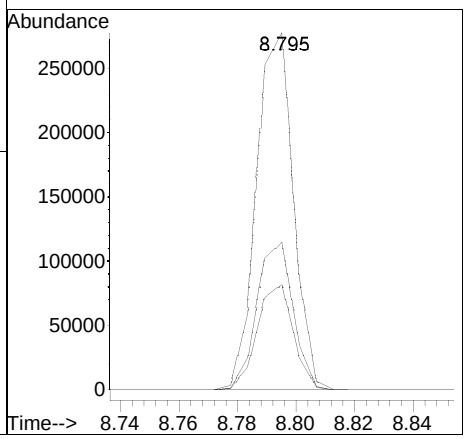


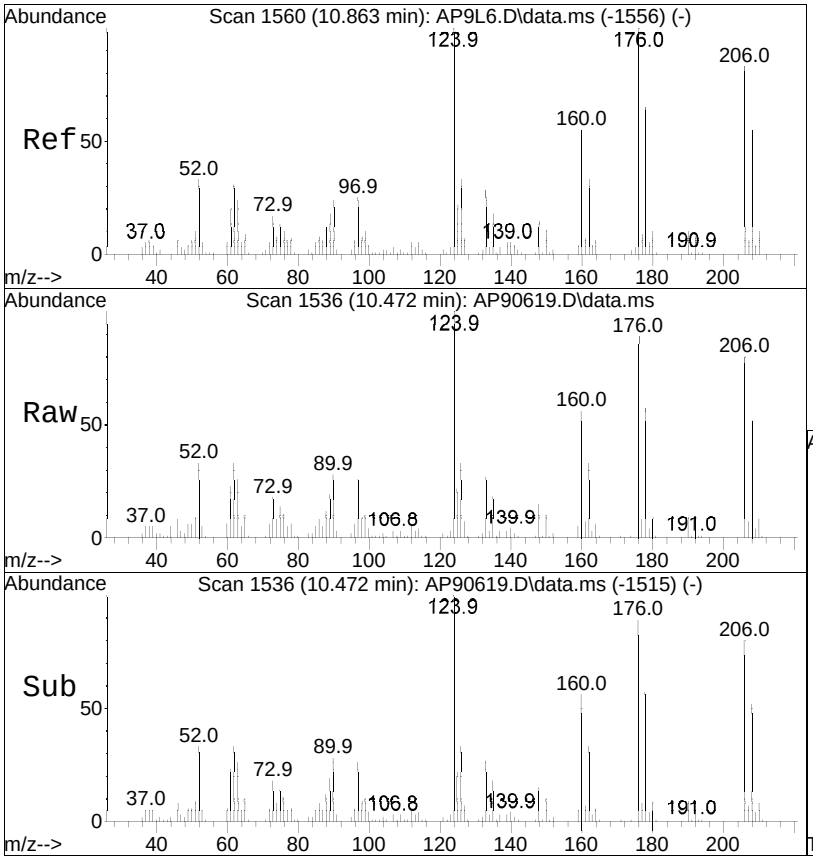


#61
Biphenyl
Concen: 5.51 ug/ml
RT: 8.795 min Scan# 1251
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:154 Resp: 242083

Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.3	48.5
152	29.0	22.5	33.7

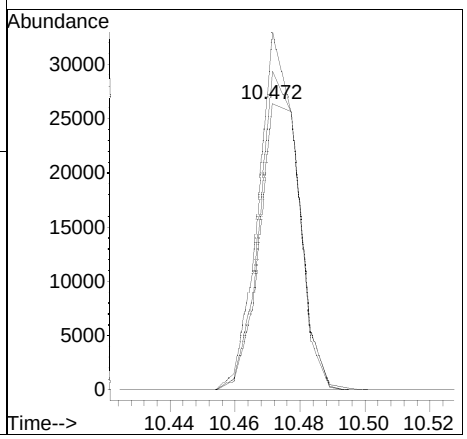


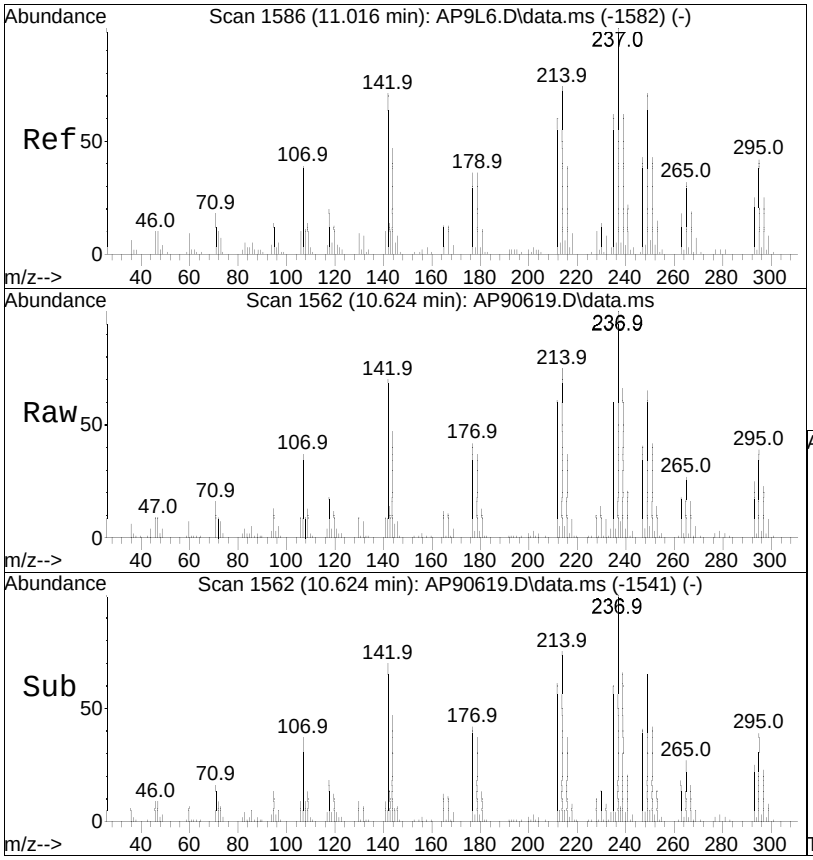


#83
Dichloran
Concen: 6.08 ug/ml
RT: 10.472 min Scan# 1536
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:206 Resp: 23349

Ion	Ratio	Lower	Upper
206	100		
176	106.6	104.6	157.0
124	114.7	130.5	195.7#

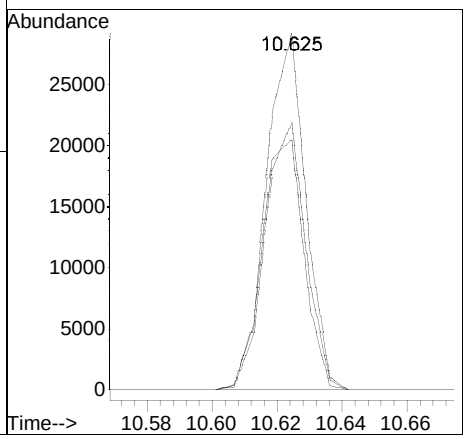


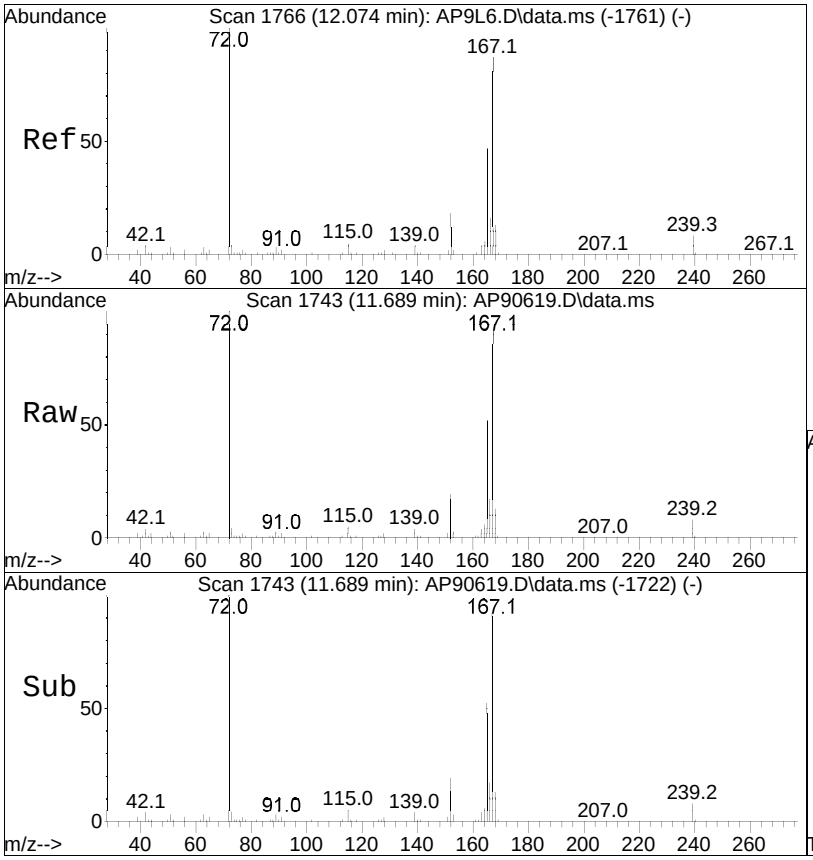


#84
Pentachloronitrobenzene
Concen: 5.87 ug/ml
RT: 10.624 min Scan# 1562
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:237 Resp: 24631

Ion	Ratio	Lower	Upper
237	100		
142	74.6	77.0	115.4#
214	77.1	58.2	87.4

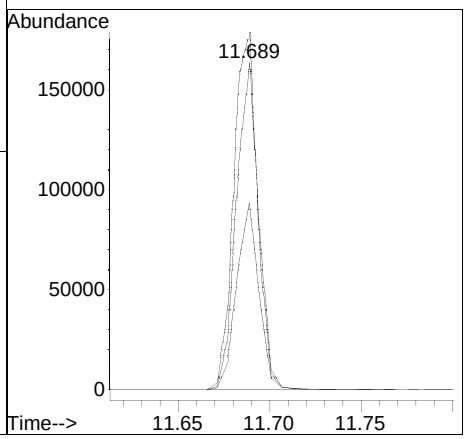




#98
Diphenamid
Concen: 5.34 ug/ml
RT: 11.689 min Scan# 1743
Delta R.T. 0.000 min
Lab File: AP90619.D
Acq: 19 Jun 2024 10:32 am

Tgt Ion:167 Resp: 137282

Ion	Ratio	Lower	Upper
167	100		
72	115.8	109.7	164.5
165	57.6	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240619RVT\	QMethod	: FS240602SV107RVT.m
Data File	: AP90619.D	Operator	: SV107:im
Date Inj'd	: 6/19/2024 10:32 am	Instrument	: SV107
Sample	: WG1936476-4,32,,AP9 10770	Quant Date	: 6/19/2024 11:08 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240619RVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 10:58 am
Operator : SV107:im
Sample : WG1936476-5,32,,ADP 10751 gmr0518C
Misc : WG1936476,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 11:54:03 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:54:35 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	113	0.00
33	T	n-Decane		1.447	1.366	5.6	115	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
86	T	Atrazine		0.347	0.339	2.3	102	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	106	0.00
100	T	n-Octadecane		0.393	0.365	7.1	97	0.00
101	T	Parathion	*	5.000	4.557	8.9	107	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.553	20.5#	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 10:58 am
Operator : SV107:im
Sample : WG1936476-5,32,,ADP 10751 gmr0518C
Misc : WG1936476,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 11:54:03 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:54:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.095	152	54884	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.336	164	115892	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	10.772	188	247436	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.001	57	93718	4.720	ug/ml#	43
86) Atrazine	10.560	200	49046	4.877	ug/ml	93
100) n-Octadecane	10.772	57	112826	4.643	ug/ml#	1
101) Parathion	11.572	109	19346	4.557	ug/ml	93
102) 3,3'-Dimethylbenzidine	12.836	212	171098	3.974	ug/ml	98

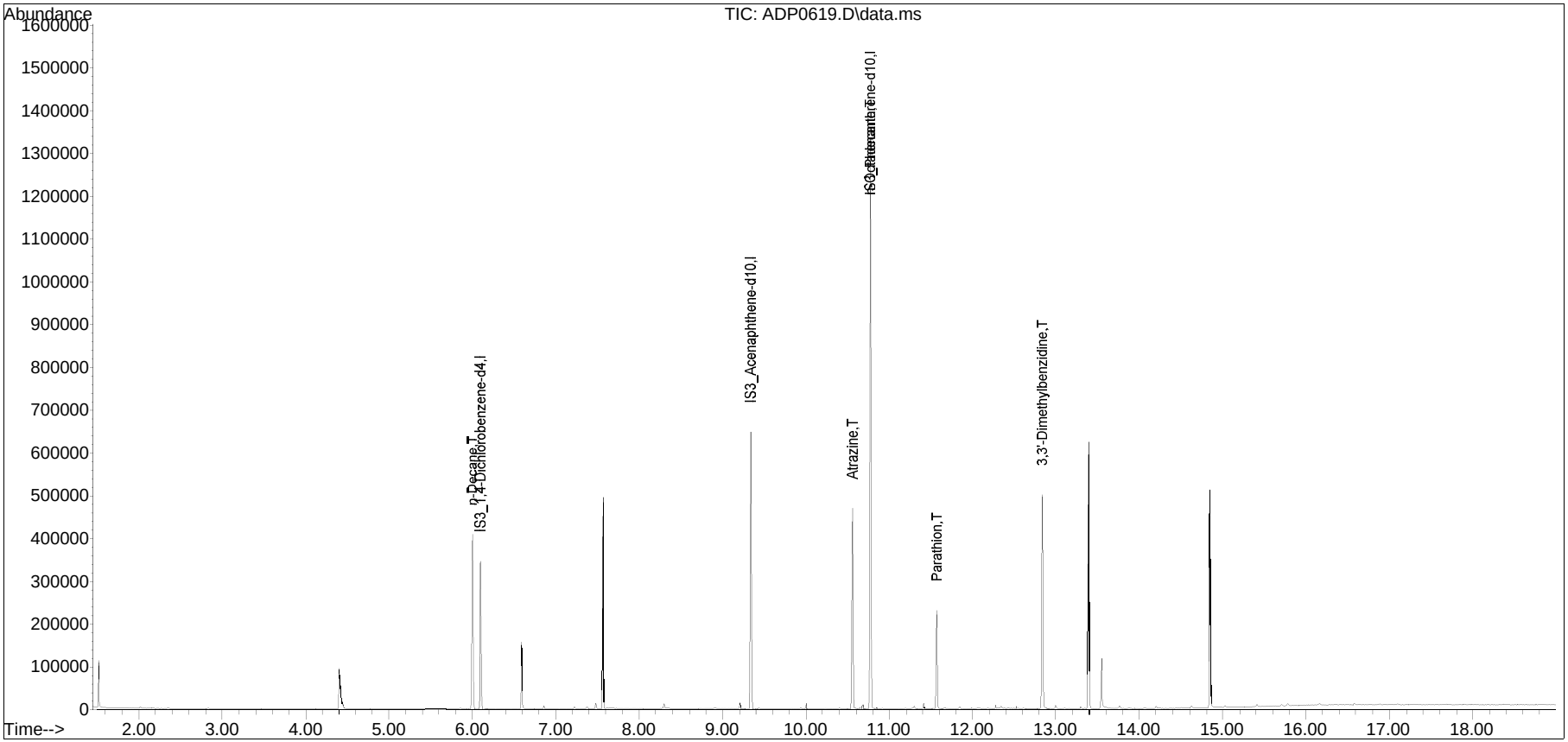
(#) = qualifier out of range (m) = manual integration (+) = signals summed

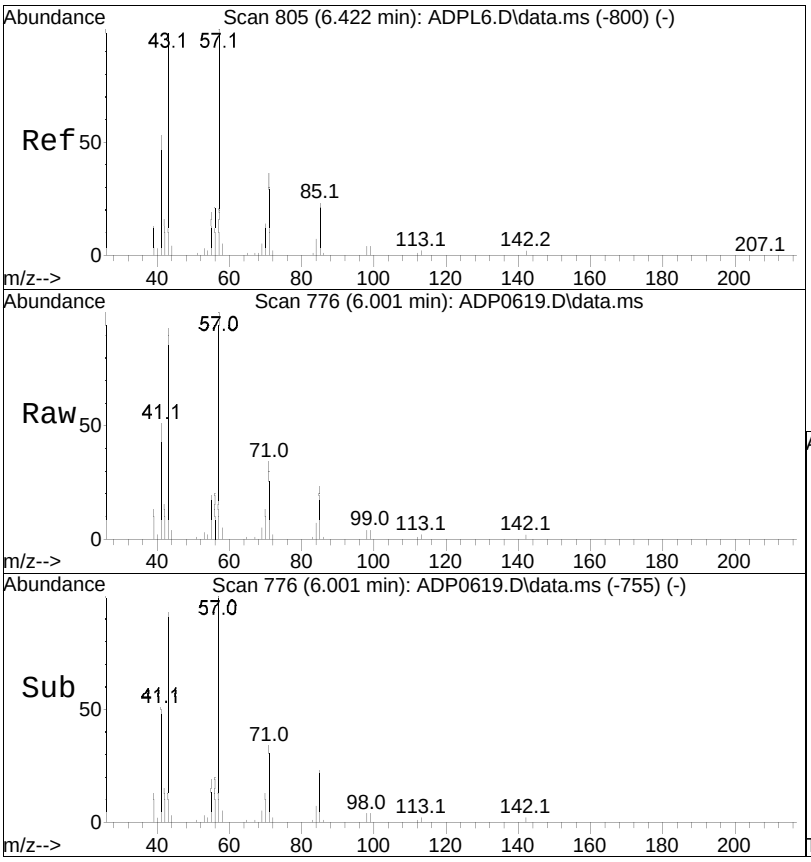
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240619RVT\
Data File : ADP0619.D
Acq On : 19 Jun 2024 10:58 am
Operator : SV107:im
Sample : WG1936476-5,32,,ADP 10751 gmr0518C
Misc : WG1936476,,ical21169
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Jun 19 11:54:03 2024
Quant Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 11:54:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

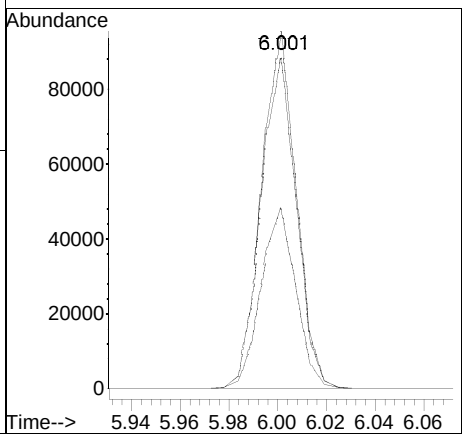


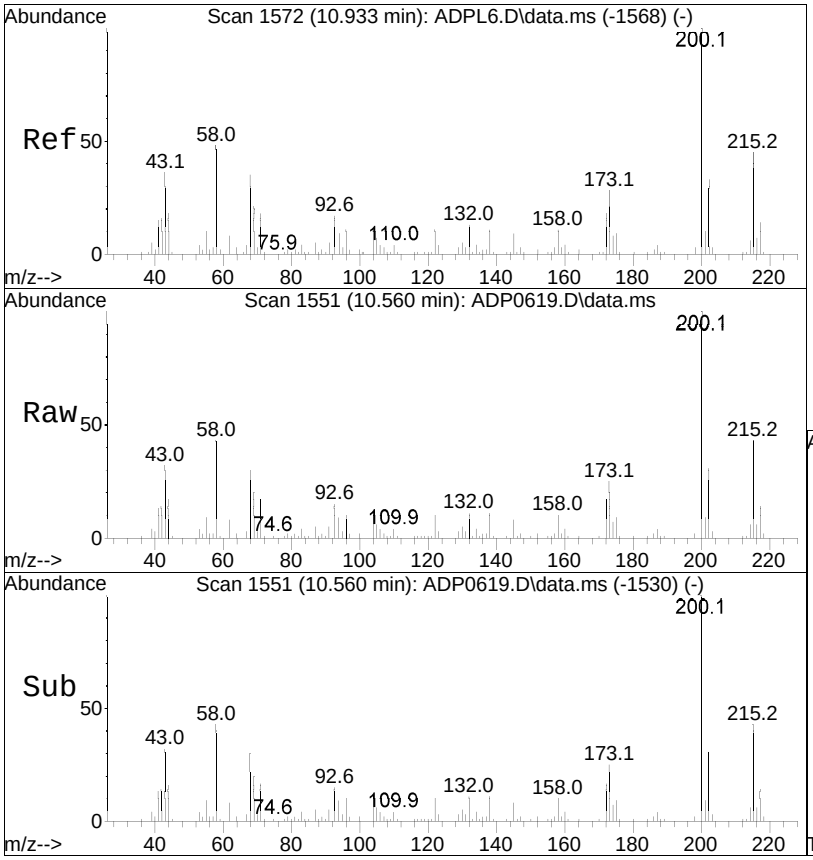


#33
n-Decane
Concen: 4.72 ug/ml
RT: 6.001 min Scan# 776
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 10:58 am

Tgt Ion: 57 Resp: 93718

Ion	Ratio	Lower	Upper
57	100		
43	94.4	0.2	0.2#
41	51.0	0.2	0.2#

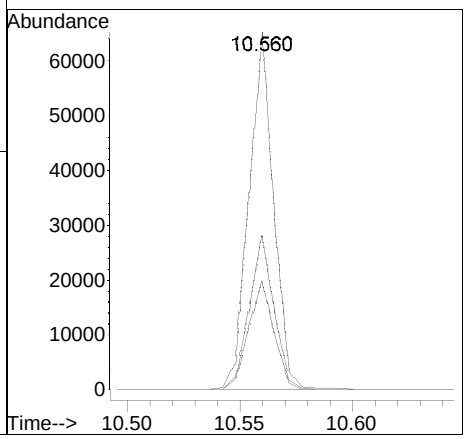


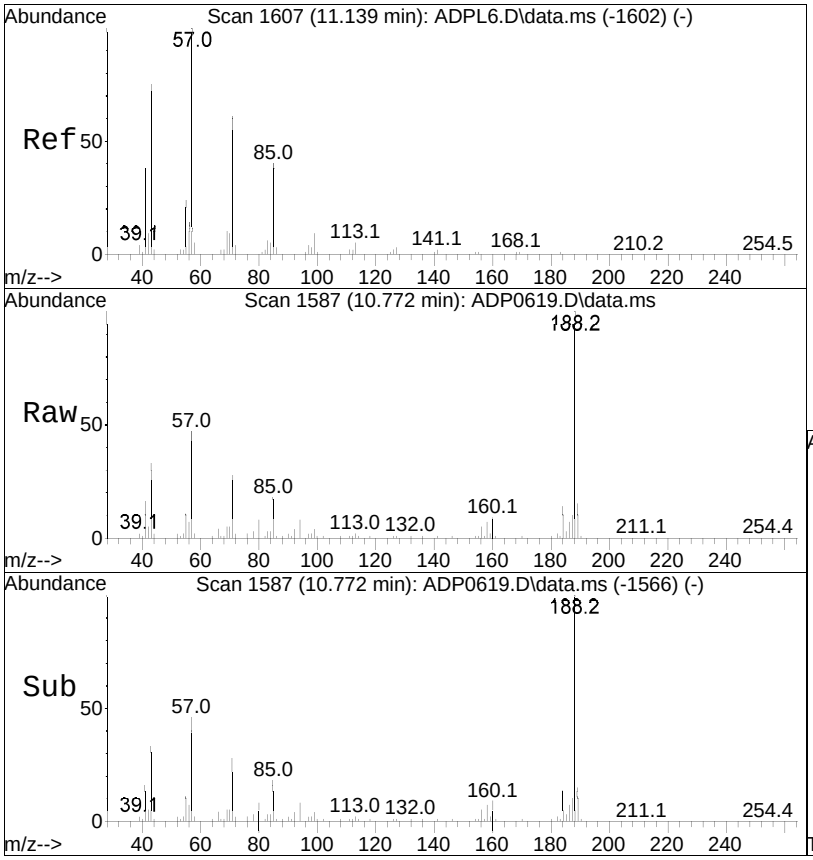


#86
Atrazine
Concen: 4.88 ug/ml
RT: 10.560 min Scan# 1551
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 10:58 am

Tgt Ion:200 Resp: 49046

Ion	Ratio	Lower	Upper
200	100		
202	31.4	25.8	38.6
215	43.2	40.2	60.4

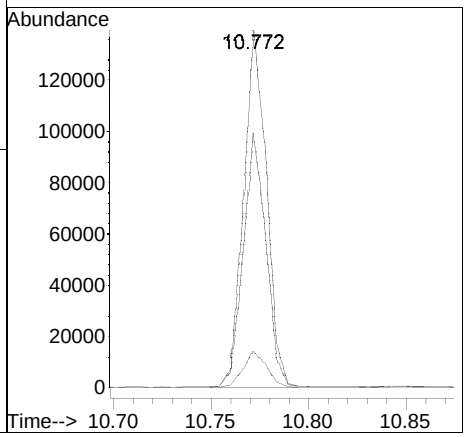


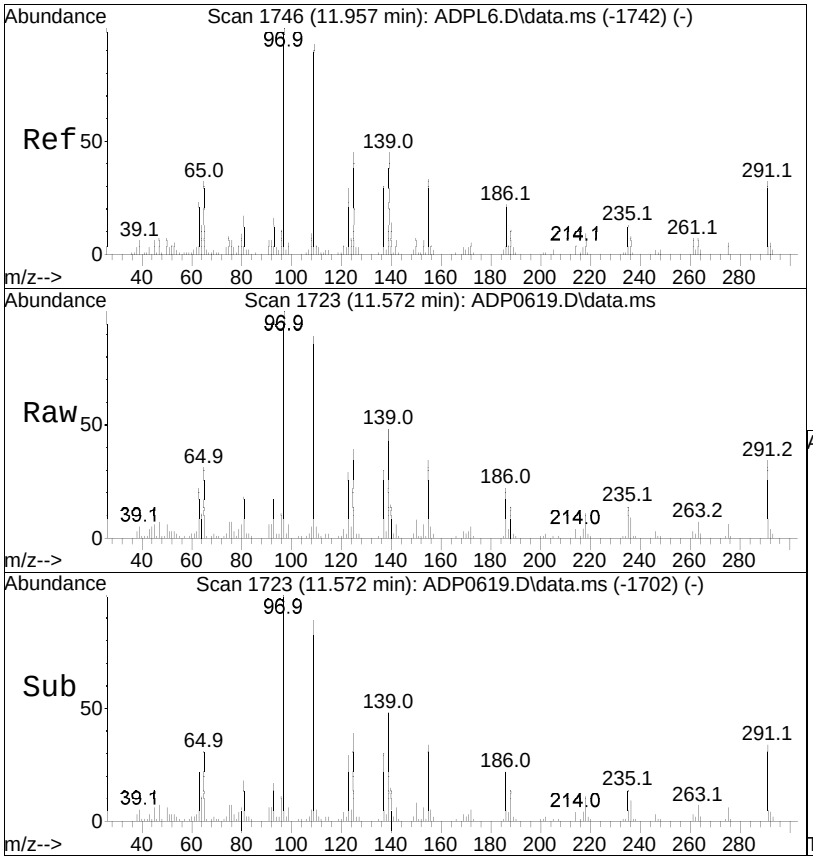


#100
n-Octadecane
Concen: 4.64 ug/ml
RT: 10.772 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 10:58 am

Tgt Ion: 57 Resp: 112826

Ion	Ratio	Lower	Upper
57	100		
43	71.1	9.0	13.6#
70	10.6	0.2	0.2#

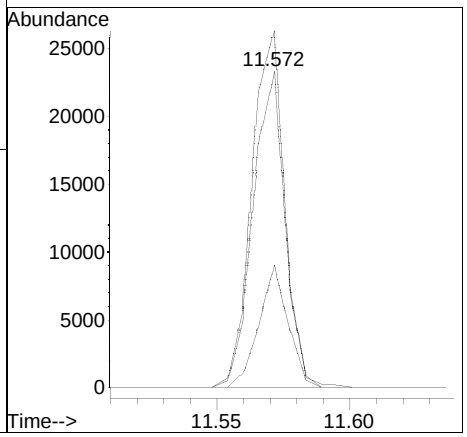


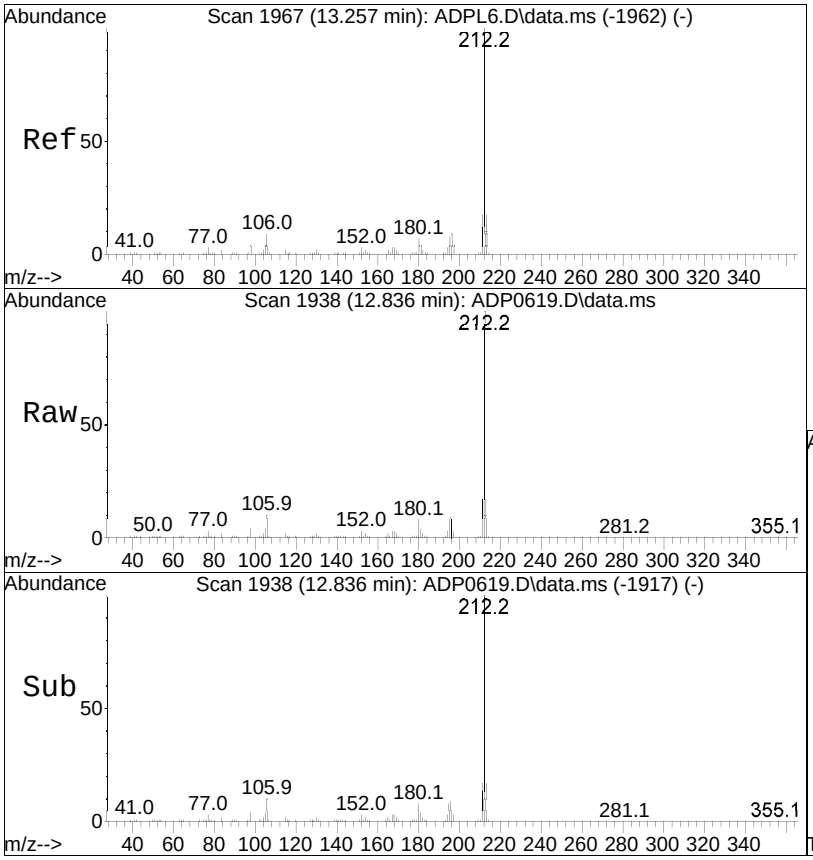


#101
Parathion
Concen: 4.56 ug/ml
RT: 11.572 min Scan# 1723
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 10:58 am

Tgt Ion:109 Resp: 19346

Ion	Ratio	Lower	Upper
109	100		
97	114.8	87.4	131.2
291	35.4	34.2	51.2

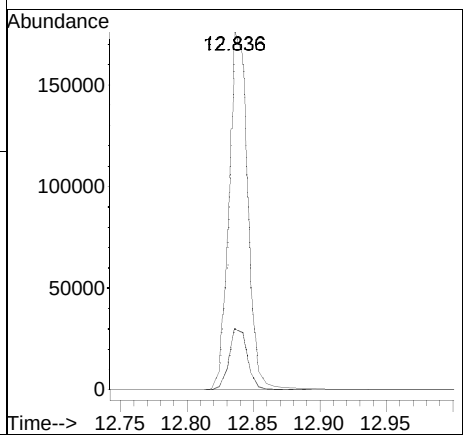




#102
3,3'-Dimethylbenzidine
Concen: 3.97 ug/ml
RT: 12.836 min Scan# 1938
Delta R.T. 0.000 min
Lab File: ADP0619.D
Acq: 19 Jun 2024 10:58 am

Tgt Ion:212 Resp: 171098

Ion	Ratio	Lower	Upper
212	100		
211	17.0	12.9	19.3
213	17.0	13.2	19.8



Manual Integration Report

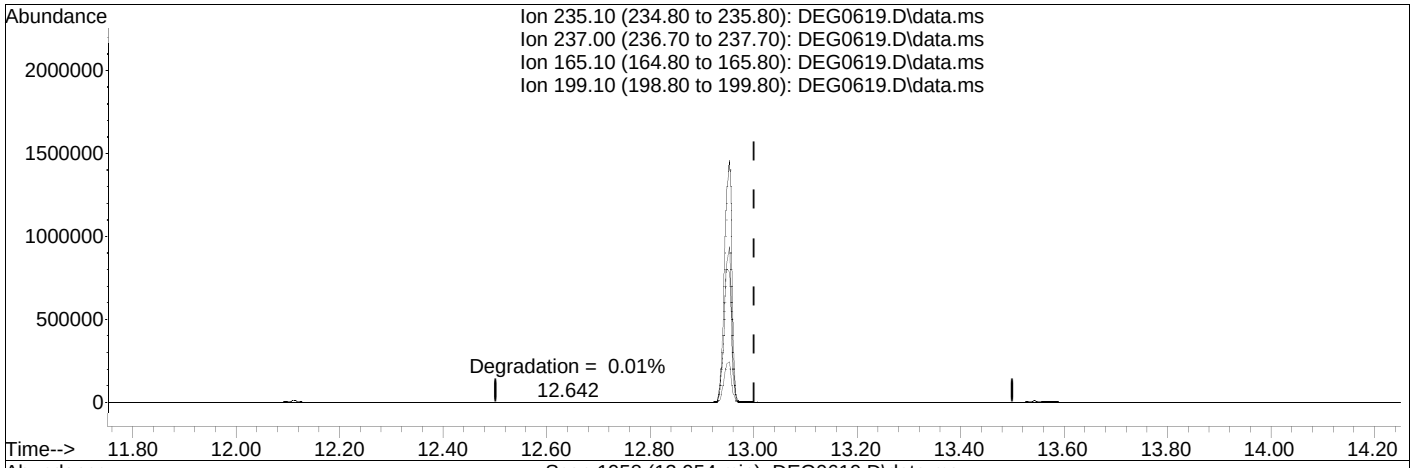
Data Path	: I:\8270\SV107\240619RVT\	QMethod	: FS240602SV107RVT.m
Data File	: ADP0619.D	Operator	: SV107:im
Date Inj'd	: 6/19/2024 10:58 am	Instrument	: SV107
Sample	: WG1936476-5,32,,ADP 10751	Quant Date	: 6/19/2024 11:54 am

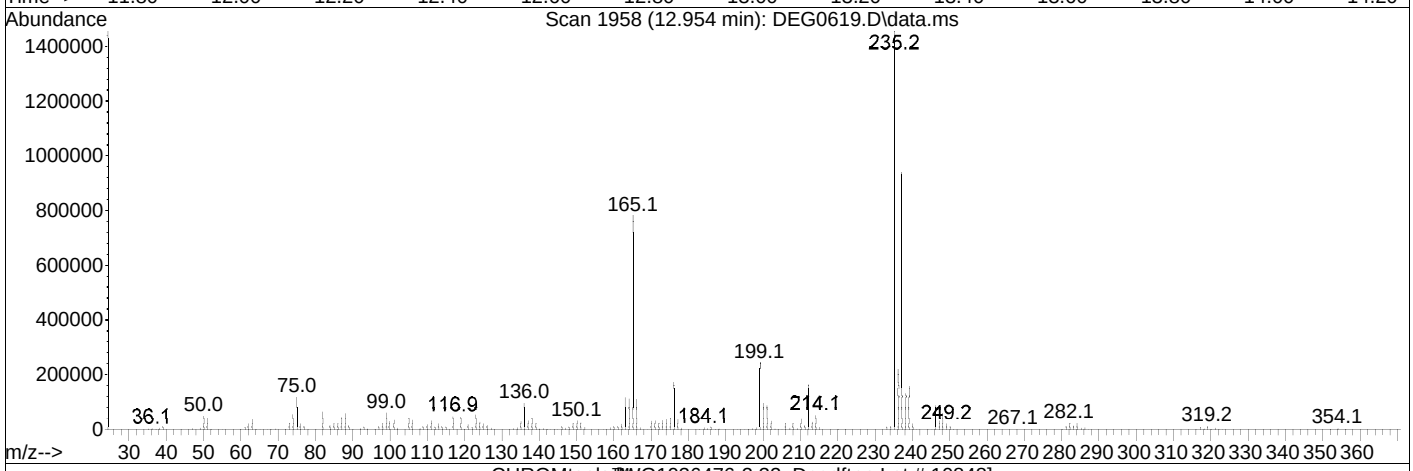
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 9:41 am
Operator : SV107:im
Sample : WG1936476-2,32,,Degdftpp Lot # 10848
Misc : WG1936476,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 10:15:27 2024
Quant Method : I:\8270\SV107\240619RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 23:46:26 2024
Response via : Initial Calibration





CHROMtools [WG1936476-2,32,,Degdftpp Lot # 10848]

(6) DDT (T)

12.954min (-0.047) 220.95

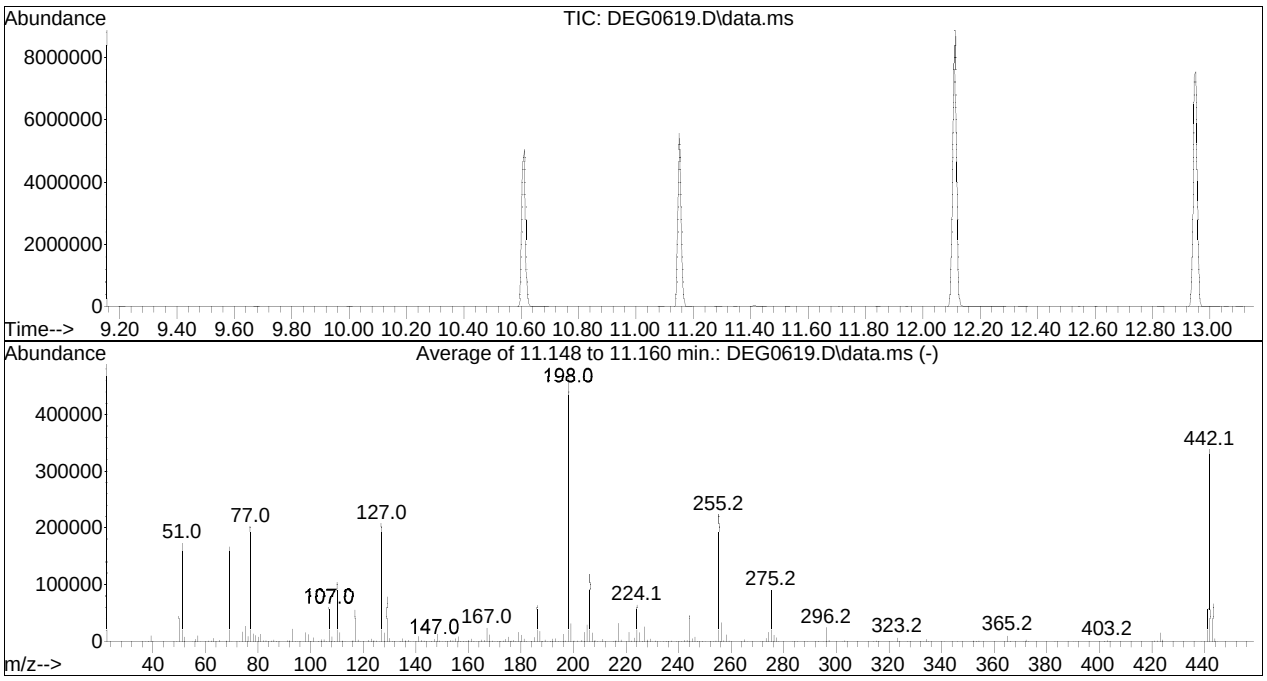
response 1346864

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.25
165.10	55.40	57.69
199.10	16.20	17.30

Data Path : I:\8270\SV107\240619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 9:41 am
Operator : SV107:gmr
Sample : WG1936476-1,32,,Degdftpp Lot # 10848
Misc : WG1936476,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv107\240619RVT\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 11:08:47 2024



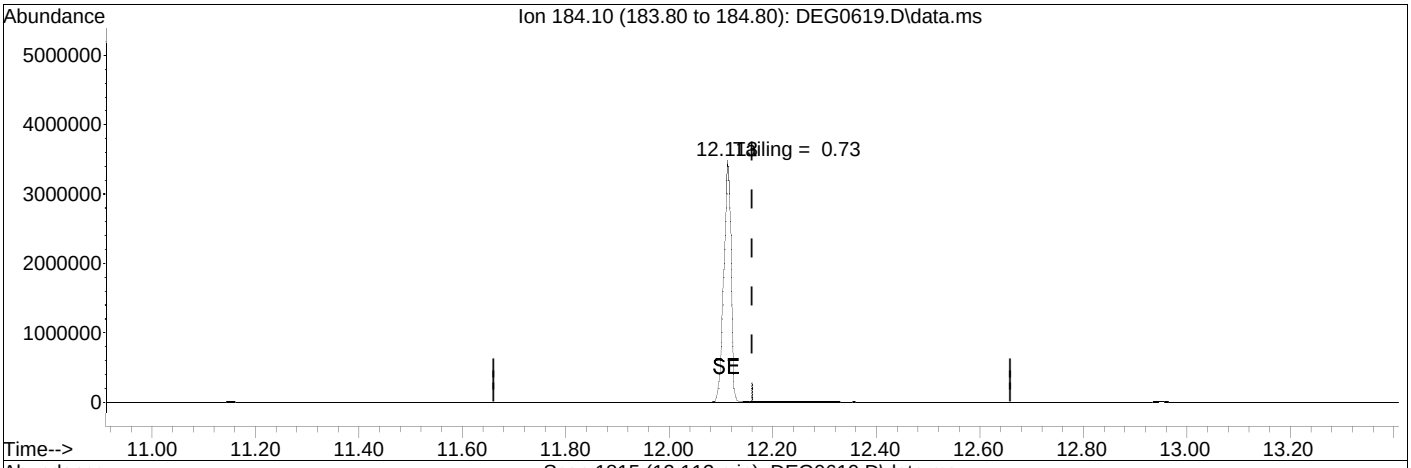
Spectrum Information: Average of 11.148 to 11.160 min.

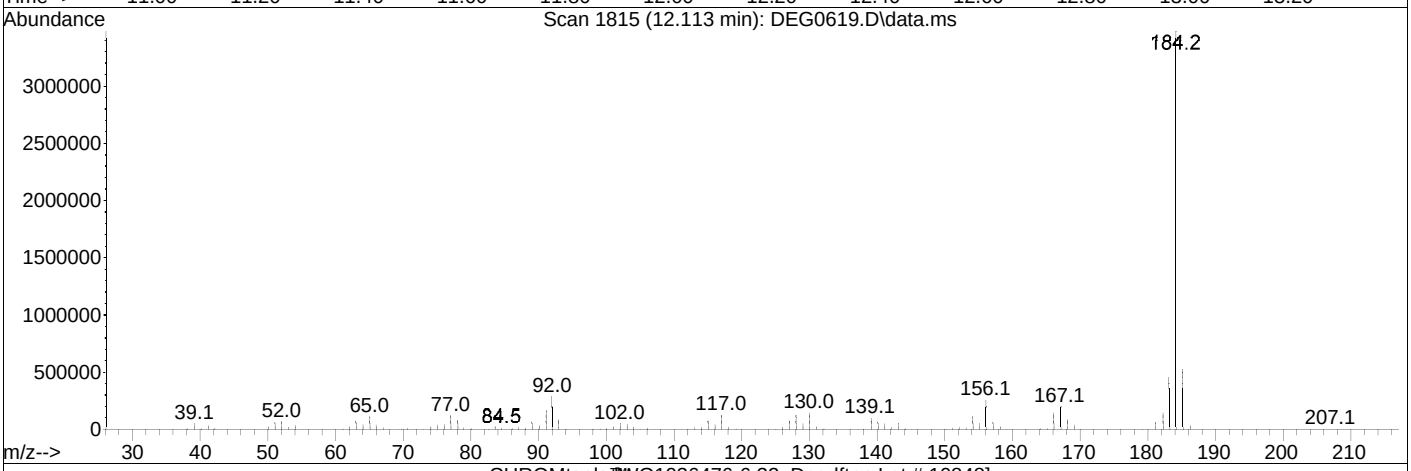
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.3	173208	PASS
68	69	0.00	2	1.5	2584	PASS
69	69	100	100	100.0	166779	PASS
70	69	0.00	2	0.6	942	PASS
127	198	10	80	44.7	207837	PASS
197	198	0.00	2	0.5	2340	PASS
198	198	100	100	100.0	464939	PASS
199	198	5	9	6.8	31485	PASS
275	198	10	60	19.4	90045	PASS
365	198	1	100	2.2	10283	PASS
441	442	0.01	24	17.1	57848	PASS
442	198	50	100	72.7	338219	PASS
443	442	15	24	19.5	65843	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 9:41 am
Operator : SV107:im
Sample : WG1936476-6,32,,Degdftpp Lot # 10848
Misc : WG1936476,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 10:15:27 2024
Quant Method : I:\8270\SV107\240619RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 23:46:26 2024
Response via : Initial Calibration





CHROMtools [WG1936476-6,32,,Degdftpp Lot # 10848]

(3) Benzidine (T)

12.113min (-0.047) 319.00

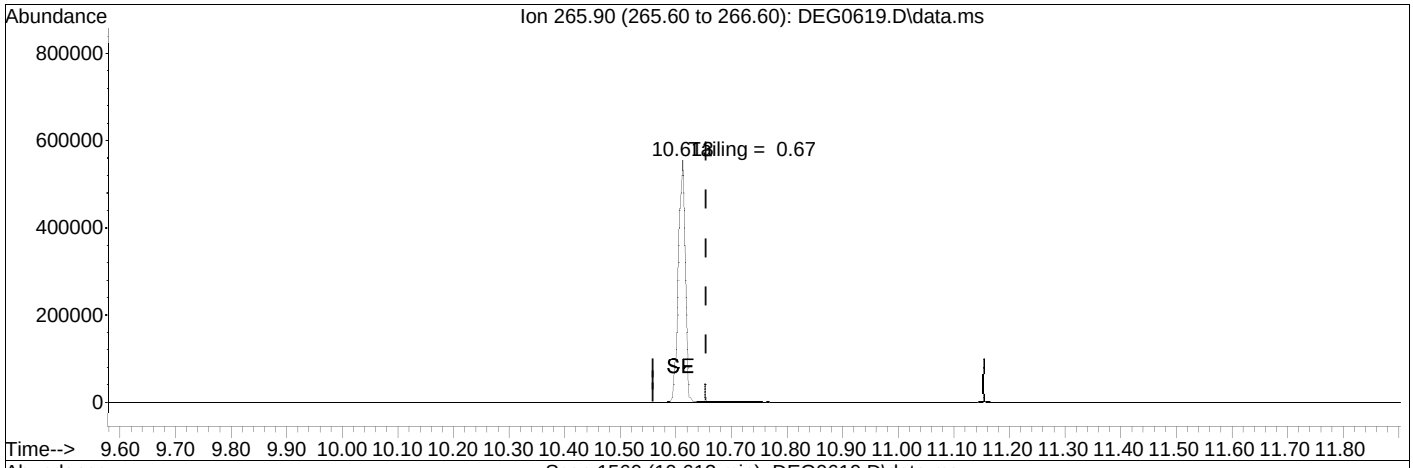
response 3247472

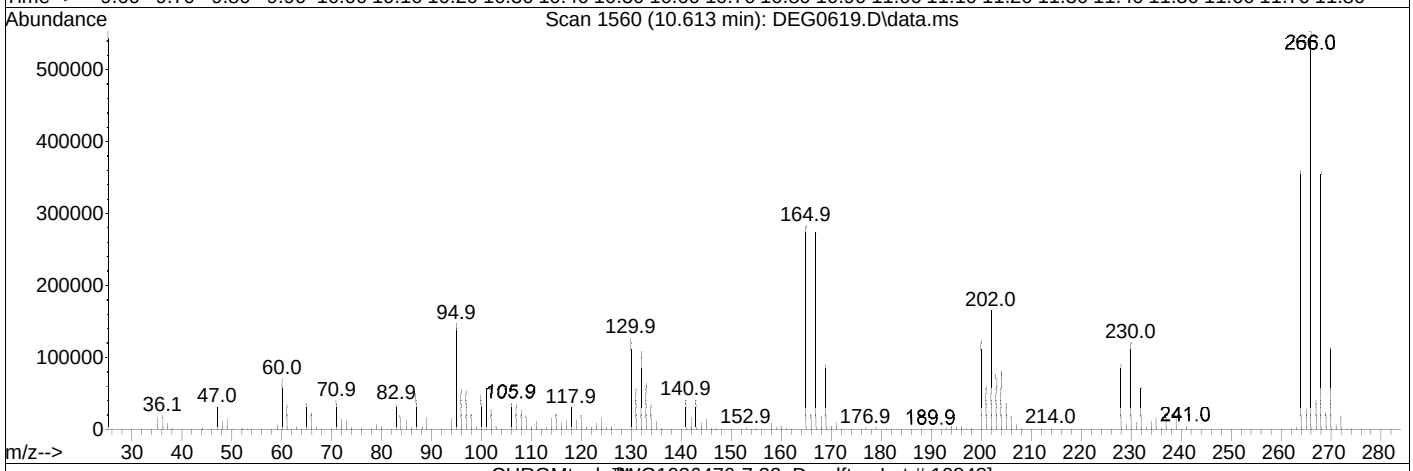
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240619RVT\
Data File : DEG0619.D
Acq On : 19 Jun 2024 9:41 am
Operator : SV107:im
Sample : WG1936476-7,32,,Degdftpp Lot # 10848
Misc : WG1936476,,ical21169
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 19 10:15:27 2024
Quant Method : I:\8270\SV107\240619RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 14 23:46:26 2024
Response via : Initial Calibration





CHROMtools [WG1936476-7,32,,Degdftpp Lot # 10848]

(1) Pentachlorophenol (T)

10.613min (-0.041) 221.70

response 465643

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 17 08:31:13 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.972	152	80180	4.000	ug/ml		0.00
Standard Area 1 = 78956			Recovery = 101.55%				
27) IS2_1,4-Dichlorobenzen...	4.972	152	80180	4.000	ug/ml		0.00
Standard Area 3 = 62712			Recovery = 127.85%				
32) IS3_1,4-Dichlorobenzen...	4.972	152	80180	4.000	ug/ml		0.00
Standard Area 2 = 63834			Recovery = 125.61%				
34) IS1_Naphthalene-d8	6.689	136	285505	4.000	ug/ml	#	0.00
Standard Area 1 = 280857			Recovery = 101.65%				
54) IS2_Naphthalene-d8	6.689	136	285505	4.000	ug/ml	#	0.00
Standard Area 3 = 224940			Recovery = 126.92%				
62) IS1_Acenaphthene-d10	8.472	164	182878	4.000	ug/ml		0.00
Standard Area 1 = 178144			Recovery = 102.66%				
82) IS2_Acenaphthene-d10	8.472	164	182878	4.000	ug/ml		0.00
Standard Area 3 = 142327			Recovery = 128.49%				
85) IS3_Acenaphthene-d10	8.472	164	182878	4.000	ug/ml		0.00
Standard Area 2 = 144241			Recovery = 126.79%				
87) IS1_Phenanthrene-d10	9.872	188	393498	4.000	ug/ml	#	0.00
Standard Area 1 = 382454			Recovery = 102.89%				
99) IS3_Phenanthrene-d10	9.872	188	393498	4.000	ug/ml	#	0.00
Standard Area 2 = 315611			Recovery = 124.68%				
103) IS1_Chrysene-d12	12.365	240	352919	4.000	ug/ml		0.00
Standard Area 1 = 352521			Recovery = 100.11%				
112) IS1_Perylene-d12	13.701	264	390104	4.000	ug/ml		0.00
Standard Area 1 = 391116			Recovery = 99.74%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.084	112	21059	0.929	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.45%				
7) Phenol-d6	4.542	99	18162	0.620	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.00%				
19) Nitrobenzene-d5	5.854	82	20800	0.663	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.30%				
45) 2-Fluorobiphenyl	7.872	172	41193	0.622	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.20%				
78) 2,4,6-Tribromophenol	9.230	330	13379	1.375	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 68.75%				

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 17 08:31:13 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.442	244	56598	0.668	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 66.80%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	d
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	d
52) 2,6-Dinitrotoluene	0.000	0	N.D.	d
59) Caprolactam	0.000	0	N.D.	
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	
68) 4-Nitrophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	
73) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
74) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 17 08:31:13 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.	d	
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

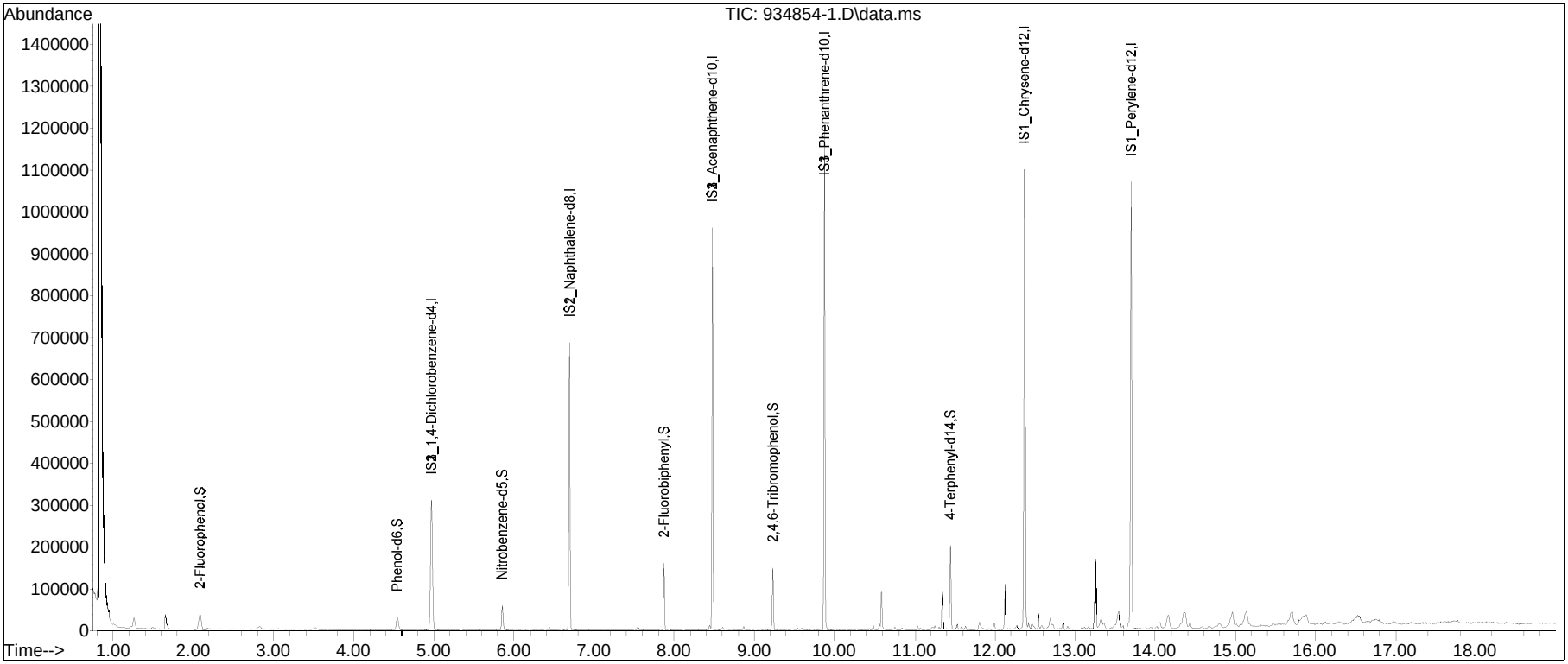
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 17 08:31:13 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90616.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240616aRVT\	QMethod	: FS240418SV106.m
Data File	: 934854-1.D	Operator	: SV106:sz
Date Inj'd	: 6/16/2024 3:31 pm	Instrument	: SV 106
Sample	: WG1934854-1,32,,cmm	Quant Date	: 6/17/2024 8:25 am

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

LSC Area Percent Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 934854-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.260	85	89	96	rVB	25842	45215	3.99%	0.593%
2	1.649	153	155	164	rBV	34322	53761	4.74%	0.705%
3	2.084	218	229	237	rBV2	36536	80264	7.08%	1.052%
4	2.819	344	354	361	rBV7	6325	16421	1.45%	0.215%
5	4.542	641	647	655	rBV	30737	58955	5.20%	0.773%
6	4.972	713	720	728	rVB	311143	509214	44.92%	6.677%
7	5.854	866	870	875	rVB	58368	62204	5.49%	0.816%
8	6.689	1008	1012	1018	rVB	686750	632141	55.76%	8.288%
9	7.872	1209	1213	1217	rVB	159979	128922	11.37%	1.690%
10	8.436	1306	1309	1312	rBV	12082	15147	1.34%	0.199%
11	8.472	1312	1315	1319	rVB	961709	801331	70.68%	10.507%
12	9.230	1437	1444	1449	rBV2	148481	138449	12.21%	1.815%
13	9.872	1549	1553	1559	rBV	1205589	994721	87.74%	13.042%
14	10.560	1666	1670	1672	rBV2	15731	17195	1.52%	0.225%
15	10.589	1672	1675	1678	rVB	88429	85501	7.54%	1.121%
16	11.030	1743	1750	1754	rVB3	10328	13509	1.19%	0.177%
17	11.213	1777	1781	1785	rBV6	6915	13572	1.20%	0.178%
18	11.342	1799	1803	1808	rVB2	87818	87351	7.70%	1.145%
19	11.442	1816	1820	1824	rBV	200922	185134	16.33%	2.427%
20	11.530	1828	1835	1838	rBV	13025	17678	1.56%	0.232%
21	11.807	1878	1882	1892	rBV4	18251	34542	3.05%	0.453%
22	11.989	1906	1913	1920	rBV2	16489	20696	1.83%	0.271%
23	12.124	1930	1936	1941	rBV	108288	114950	10.14%	1.507%
24	12.271	1954	1961	1965	rVB6	10147	16889	1.49%	0.221%
25	12.365	1973	1977	1984	rVV	1093427	1105959	97.55%	14.501%
26	12.424	1984	1987	1991	rVB	14328	15701	1.38%	0.206%
27	12.465	1991	1994	2003	rVB5	12321	23685	2.09%	0.311%
28	12.542	2003	2007	2011	rBV	36090	36675	3.23%	0.481%

LSC Area Percent Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Title : Semivolatiles by GC/MS by modified 8270

29	12.689	2022	2032	2035	rBV3	26618	57720	5.09%	0.757%
30	12.848	2055	2059	2064	rVB3	17549	24057	2.12%	0.315%
31	13.165	2109	2113	2118	rVB5	7411	12070	1.06%	0.158%
32	13.254	2123	2128	2133	rVV2	167045	204558	18.04%	2.682%
33	13.324	2133	2140	2144	rVV2	23649	53410	4.71%	0.700%
34	13.360	2144	2146	2153	rVB5	14056	19256	1.70%	0.252%
35	13.536	2163	2176	2183	rBV4	39512	115878	10.22%	1.519%
36	13.601	2183	2187	2194	rVB7	7250	13174	1.16%	0.173%
37	13.701	2199	2204	2210	rVB	1067321	1133726	100.00%	14.865%
38	14.059	2261	2265	2269	rBV5	13925	20965	1.85%	0.275%
39	14.165	2274	2283	2293	rVB4	31606	81944	7.23%	1.074%
40	14.354	2303	2315	2316	rBV2	34785	77116	6.80%	1.011%
41	14.430	2324	2328	2334	rVB4	16622	29103	2.57%	0.382%
42	14.801	2383	2391	2399	rVB9	10407	29487	2.60%	0.387%
43	14.959	2403	2418	2423	rBV3	36777	103024	9.09%	1.351%
44	15.142	2437	2449	2465	rVB6	36318	137508	12.13%	1.803%
45	15.471	2501	2505	2509	rBV7	7430	12068	1.06%	0.158%
46	15.701	2533	2544	2555	rBV5	27959	97829	8.63%	1.283%
47	15.789	2556	2559	2562	rBV4	10382	13715	1.21%	0.180%
48	16.295	2639	2645	2648	rBV8	6098	13821	1.22%	0.181%
49	16.518	2681	2683	2694	rVB9	18878	50588	4.46%	0.663%

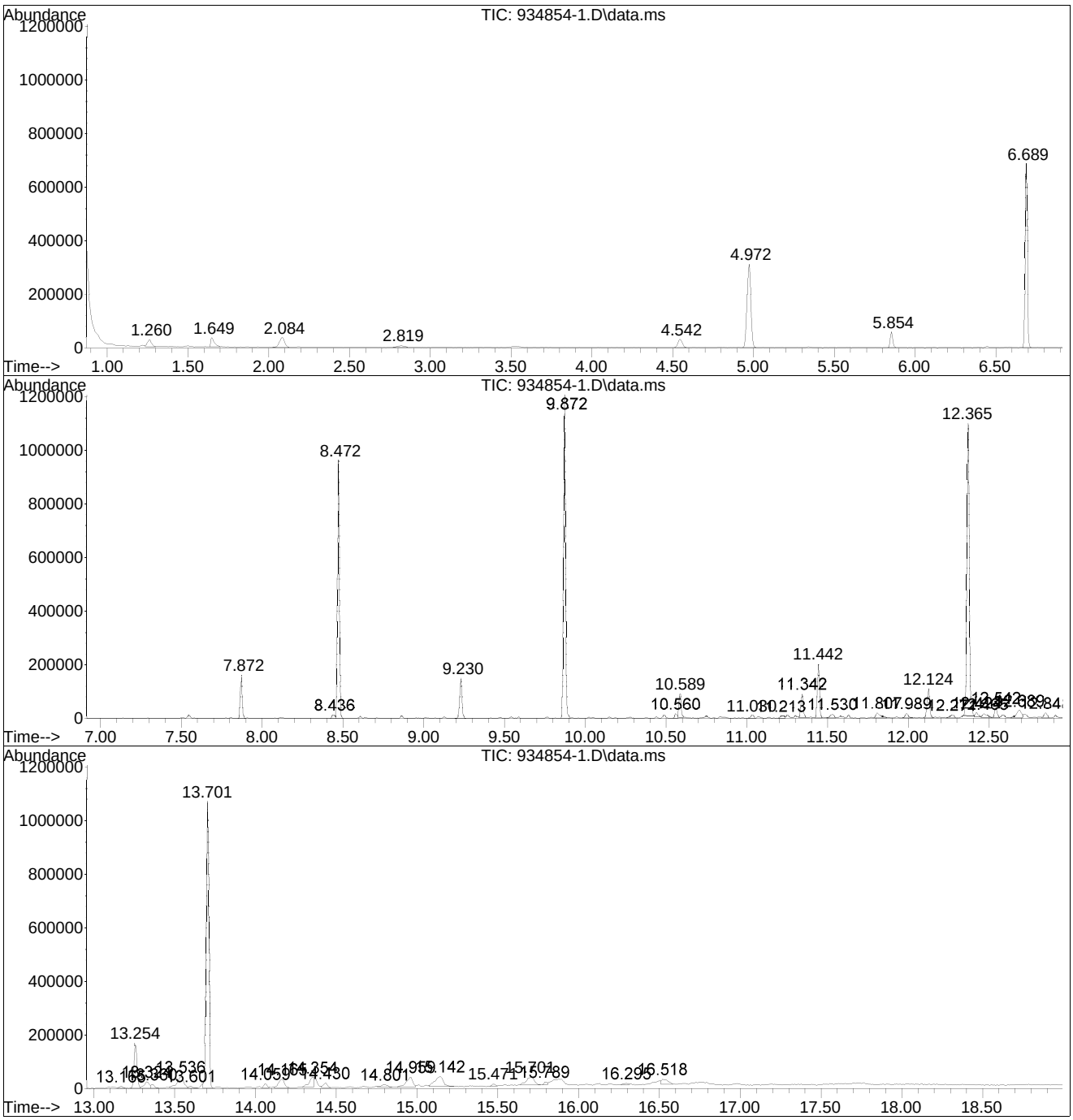
Sum of corrected areas: 7626799

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

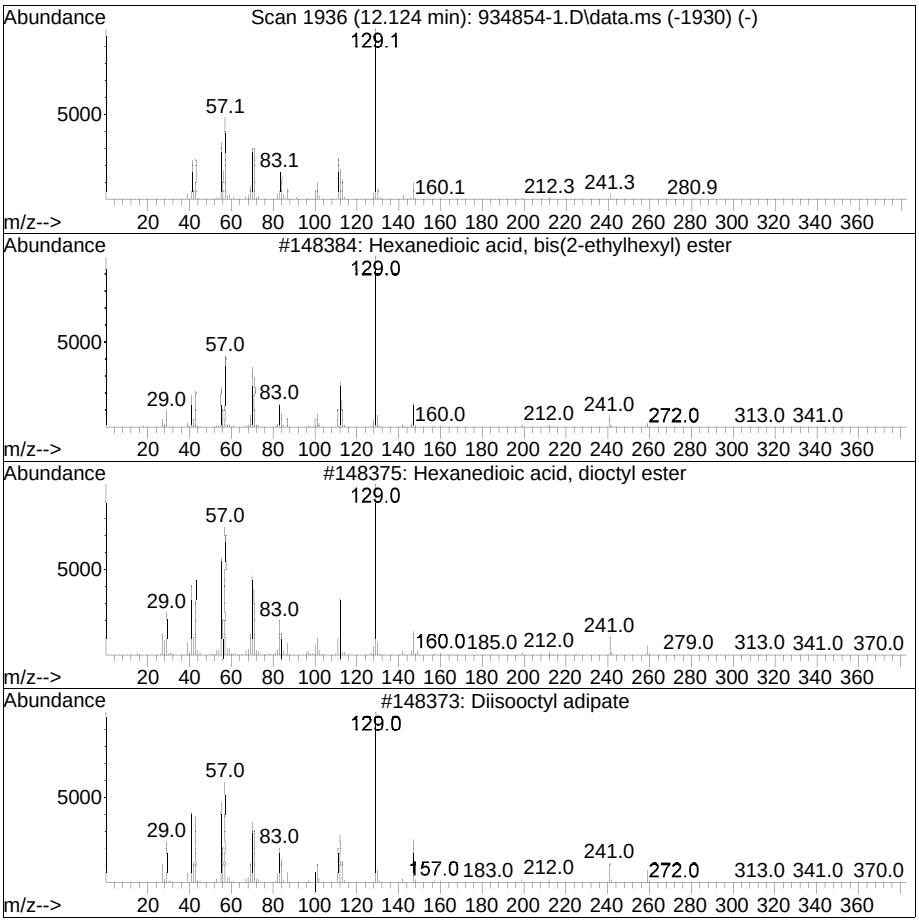
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

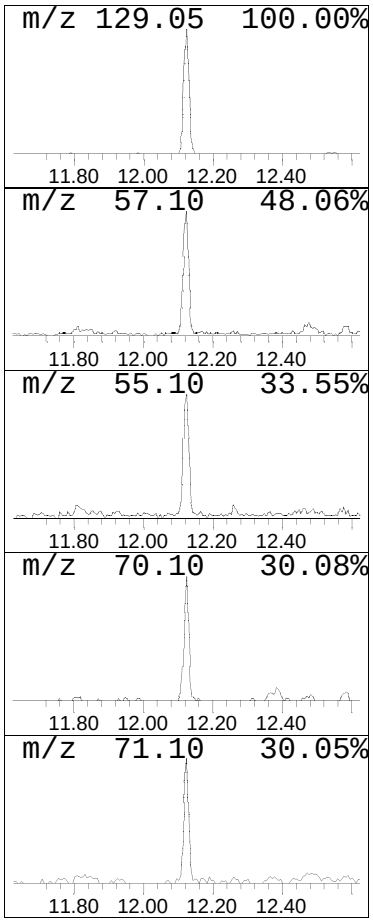
****

Peak Number 2 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	0.42 ug/ml	114950	IS1_Chrysene-d12	12.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	83
2	Hexanedioic acid, dioctyl ester	370	C22H42O4	000123-79-5	64
3	Diisooctyl adipate	370	C22H42O4	001330-86-5	50
4	Hexanedioic acid, mono(2-ethylhe...	258	C14H26O4	004337-65-9	43
5	Adipic acid, di(oct-4-yl ester)	370	C22H42O4	1000160-80-1	40





Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

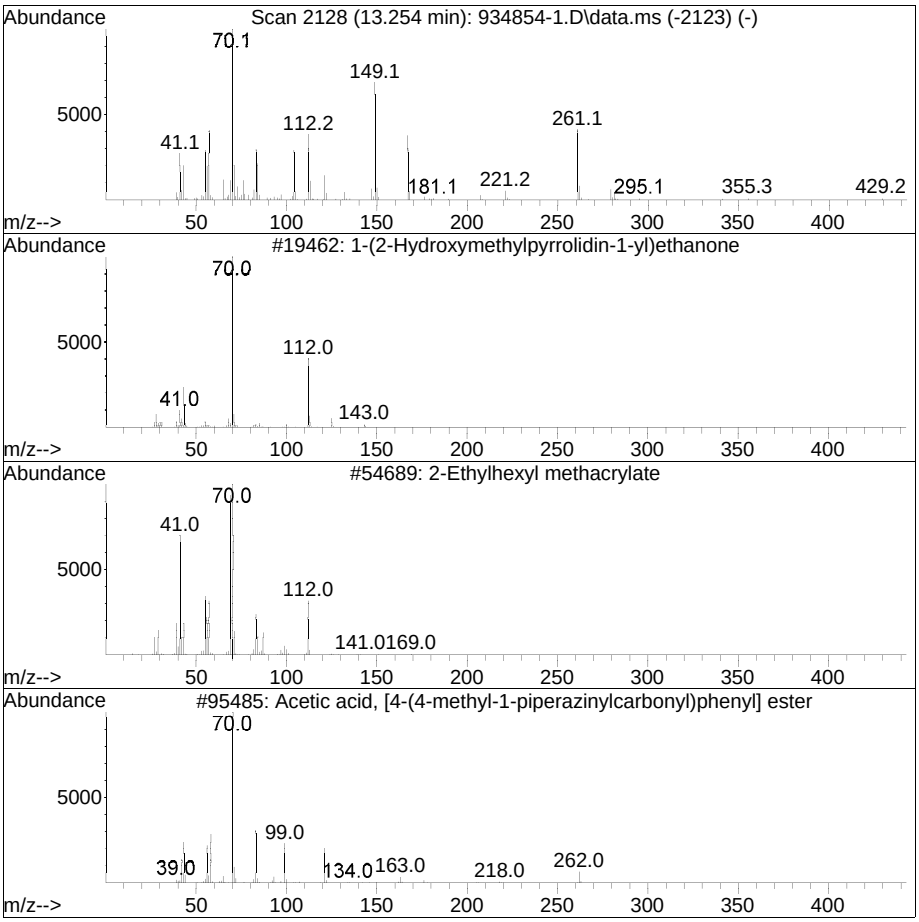
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

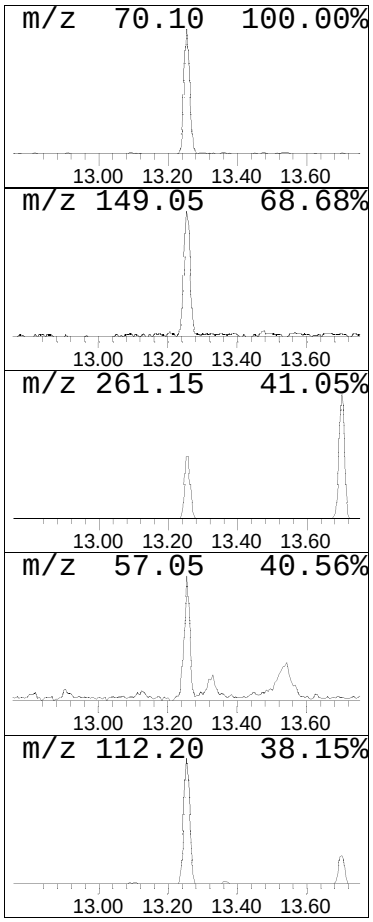
****

Peak Number 3 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.254	0.72 ug/ml	204558	IS1_Perylene-d12	13.701

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Hydroxymethylpyrrolidin-1-y...	143	C7H13NO2	1000192-83-2	27
2	2-Ethylhexyl methacrylate	198	C12H22O2	000688-84-6	17
3	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	14
4	5-Undecene, 3-methyl-, (E)-	168	C12H24	074630-67-4	14
5	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	14





Library Search Compound Report

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

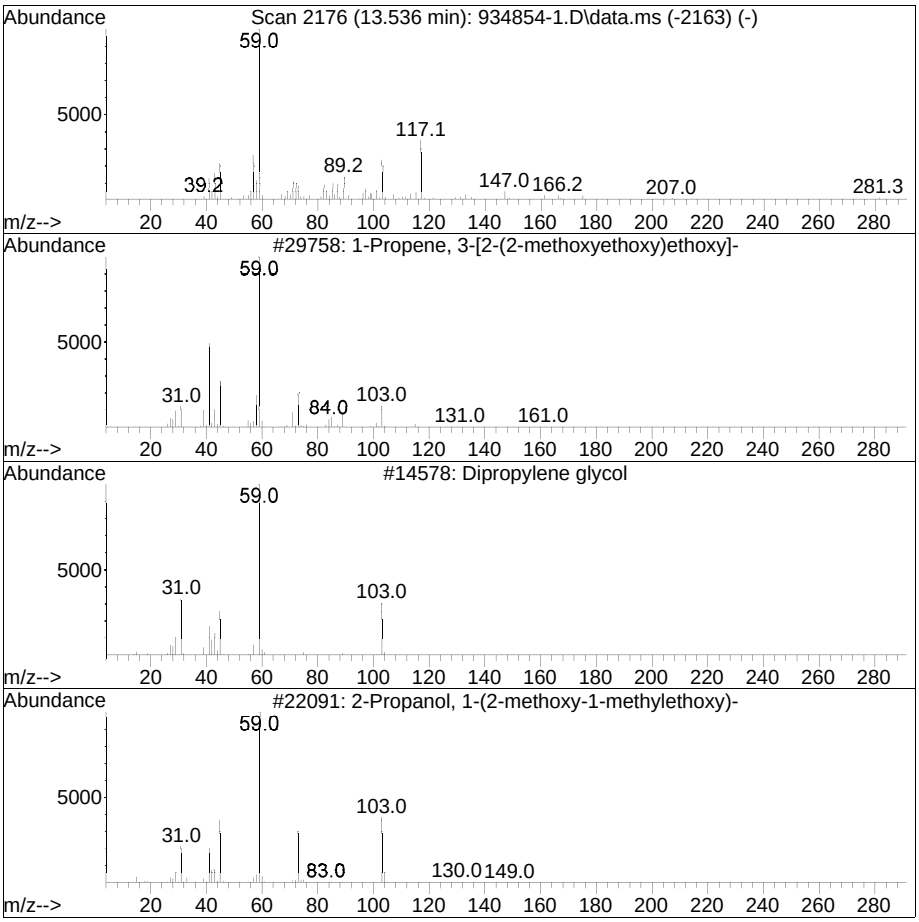
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

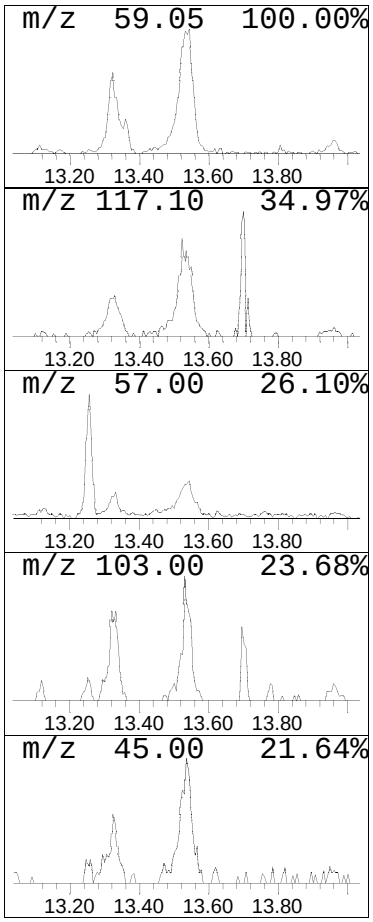
****

Peak Number 4 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.536	0.41 ug/ml	115878	IS1_Perylene-d12	13.701

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3-[2-(2-methoxyethoxy...	160	C8H16O3	013752-97-1	59
2	Dipropylene glycol	134	C6H14O3	025265-71-8	50
3	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	50
4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	47
5	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	45





Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

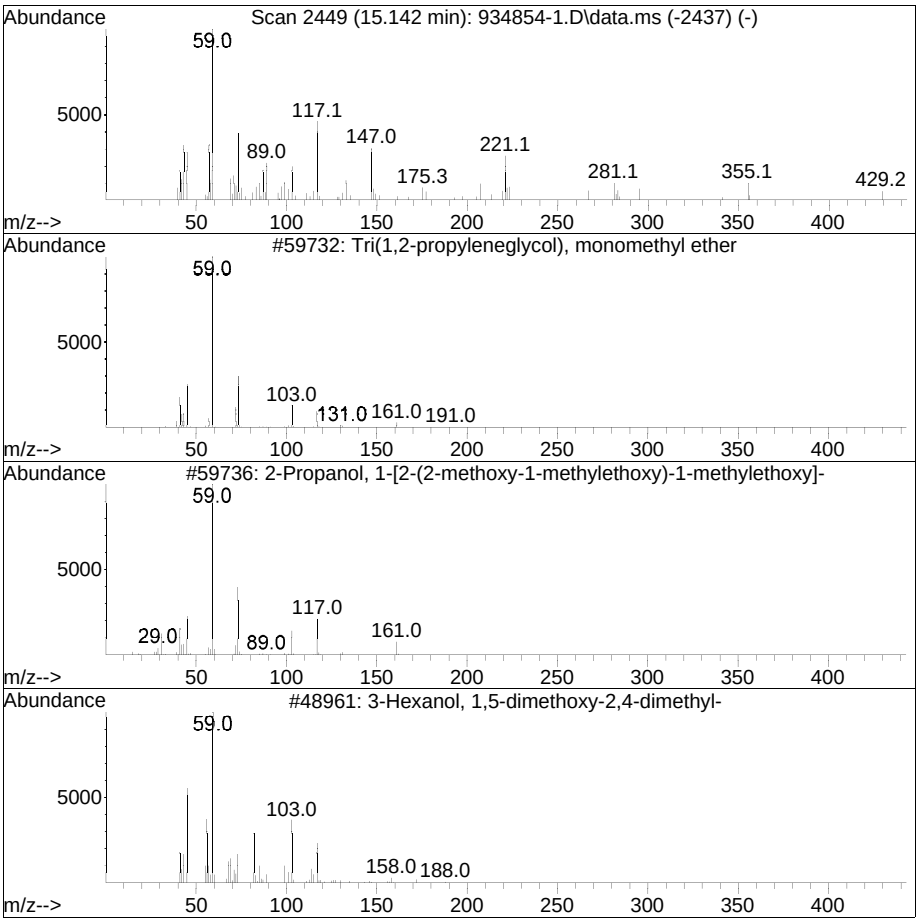
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

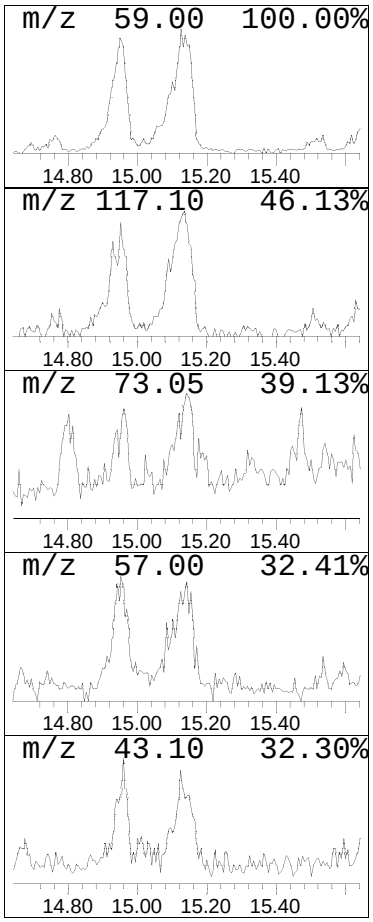
****

Peak Number 5 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.142	0.49 ug/ml	137508	IS1_Perylene-d12	13.701

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tri(1,2-propyleneglycol), monome...	206	C10H22O4	1000262-26-6	35
2	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	32
3	3-Hexanol, 1,5-dimethoxy-2,4-dim...	190	C10H22O3	013897-22-8	25
4	2,4-Diethyl-6-methyl-1,3,5-trioxane	160	C8H16O3	117888-04-7	25
5	Silane, trimethyl-	74	C3H10Si	000993-07-7	22





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-1.D
Acq On : 16 Jun 2024 3:31 pm
Operator : SV106:sz
Sample : WG1934854-1,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	12.124	0.4	ug/ml	114950	12	12.366	1105960	4.0
Unknown	13.254	0.7	ug/ml	204558	13	13.701	1133730	4.0
Unknown	13.536	0.4	ug/ml	115878	13	13.701	1133730	4.0
Unknown	15.142	0.5	ug/ml	137508	13	13.701	1133730	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-1.D
Acq On : 19 Jun 2024 10:02 am
Operator : SV106:sz
Sample : WG1935741-1,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 13:49:36 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.860	152	55475	4.000	ug/ml	0.00
Standard Area 1 = 59427			Recovery = 93.35%			
27) IS2_1,4-Dichlorobenzen...	4.860	152	55475	4.000	ug/ml	0.00
Standard Area 3 = 60712			Recovery = 91.37%			
32) IS3_1,4-Dichlorobenzen...	4.860	152	55475	4.000	ug/ml	0.00
Standard Area 2 = 62958			Recovery = 88.11%			
34) IS1_Naphthalene-d8	6.613	136	203040	4.000	ug/ml	0.00
Standard Area 1 = 210492			Recovery = 96.46%			
54) IS2_Naphthalene-d8	6.613	136	203040	4.000	ug/ml	0.00
Standard Area 3 = 221960			Recovery = 91.48%			
62) IS1_Acenaphthene-d10	8.407	164	132490	4.000	ug/ml	0.00
Standard Area 1 = 134114			Recovery = 98.79%			
82) IS2_Acenaphthene-d10	8.407	164	132490	4.000	ug/ml	0.00
Standard Area 3 = 147055			Recovery = 90.10%			
85) IS3_Acenaphthene-d10	8.407	164	132490	4.000	ug/ml	0.00
Standard Area 2 = 148414			Recovery = 89.27%			
87) IS1_Phenanthrene-d10	9.801	188	281492	4.000	ug/ml	0.00
Standard Area 1 = 283169			Recovery = 99.41%			
99) IS3_Phenanthrene-d10	9.801	188	281492	4.000	ug/ml	0.00
Standard Area 2 = 314363			Recovery = 89.54%			
103) IS1_Chrysene-d12	12.283	240	266777	4.000	ug/ml	0.00
Standard Area 1 = 267660			Recovery = 99.67%			
112) IS1_Perylene-d12	13.606	264	321292	4.000	ug/ml	0.00
Standard Area 1 = 323400			Recovery = 99.35%			
System Monitoring Compounds						
4) 2-Fluorophenol	1.995	112	13284	0.847	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.35%			
7) Phenol-d6	4.419	99	14857	0.733	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 36.65%			
19) Nitrobenzene-d5	5.772	82	13461	0.620	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.00%			
45) 2-Fluorobiphenyl	7.807	172	34144	0.725	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.50%			
78) 2,4,6-Tribromophenol	9.166	330	9352	1.327	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 66.35%			

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-1.D
Acq On : 19 Jun 2024 10:02 am
Operator : SV106:sz
Sample : WG1935741-1,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 13:49:36 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.365	244	62074	1.024	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 102.40%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	d
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
37) 4-Chloroaniline	0.000	0	N.D.	
39) p-Chloro-m-cresol	0.000	0	N.D.	
42) Hexachlorocyclopentadiene	0.000	0	N.D.	
43) 2,4,6-Trichlorophenol	0.000	0	N.D.	
44) 2,4,5-Trichlorophenol	0.000	0	N.D.	
47) 2-Nitroaniline	0.000	0	N.D.	
50) Dimethyl phthalate	0.000	0	N.D.	d
52) 2,6-Dinitrotoluene	0.000	0	N.D.	d
59) Caprolactam	0.000	0	N.D.	
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
61) Biphenyl	0.000	0	N.D.	
63) 3-Nitroaniline	0.000	0	N.D.	
65) 2,4-Dinitrophenol	0.000	0	N.D.	
66) Dibenzofuran	0.000	0	N.D.	
67) 2,4-Dinitrotoluene	0.000	0	N.D.	
68) 4-Nitrophenol	0.000	0	N.D.	
71) Diethyl phthalate	0.000	0	N.D.	
73) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
74) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-1.D
Acq On : 19 Jun 2024 10:02 am
Operator : SV106:sz
Sample : WG1935741-1,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 13:49:36 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
76) NDPA/DPA	0.000		0		N.D.	
79) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
86) Atrazine	0.000		0		N.D.	
90) Carbazole	0.000		0		N.D.	
91) Di-n-butylphthalate	0.000		0		N.D.	d
96) Butyl benzyl phthalate	0.000		0		N.D.	
105) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
107) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
108) Di-n-octylphthalate	0.000		0		N.D.	d

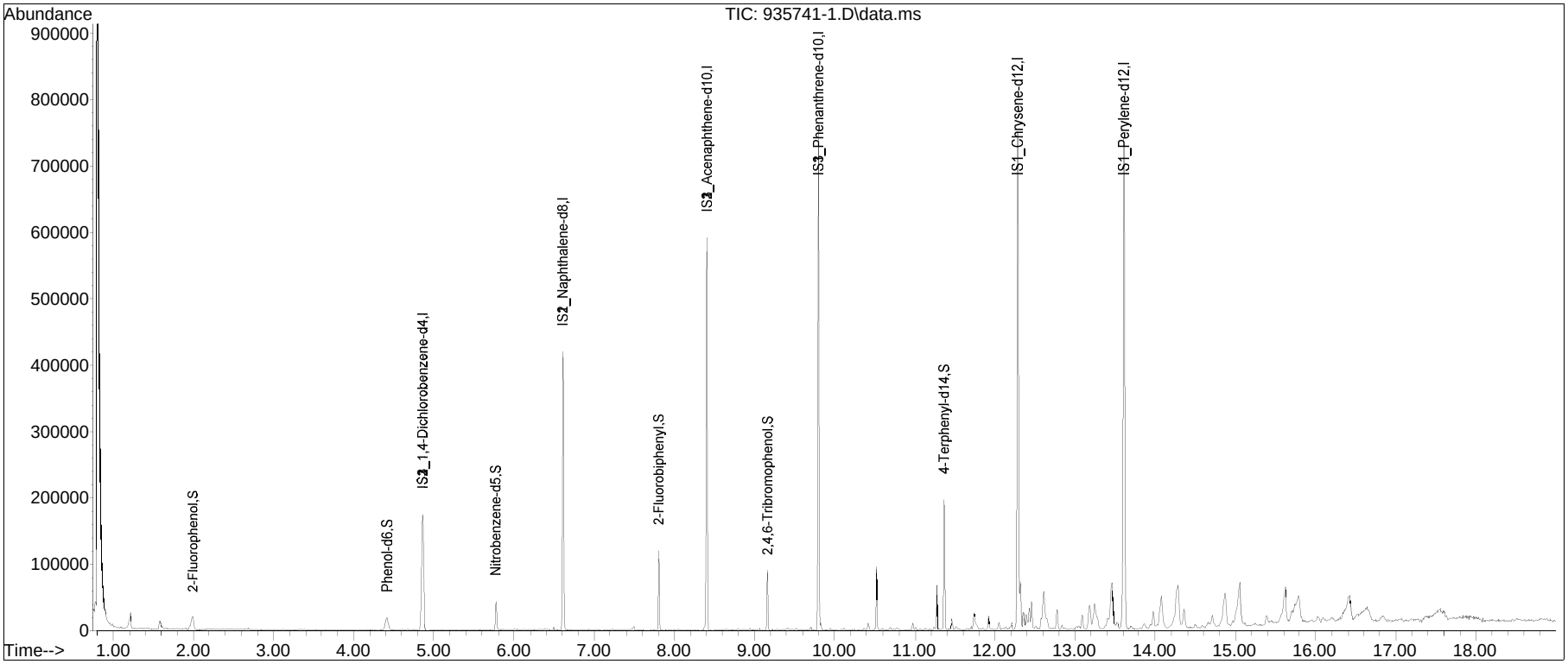
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-1.D
Acq On : 19 Jun 2024 10:02 am
Operator : SV106:sz
Sample : WG1935741-1,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 13:49:36 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90619.D••



Manual Integration Report

Data Path	: I:\8270\SV106\240619aRVT\	QMethod	: FS240418SV106.m
Data File	: 935741-1.D	Operator	: SV106:sz
Date Inj'd	: 6/19/2024 10:02 am	Instrument	: SV 106
Sample	: WG1935741-1,32,,gmr	Quant Date	: 6/19/2024 1:45 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-2.D
Acq On : 16 Jun 2024 3:54 pm
Operator : SV106:sz
Sample : WG1934854-2,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 17 08:32:10 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.972	152	74627	4.000	ug/ml		0.00
Standard Area 1 = 78956			Recovery = 94.52%				
27) IS2_1,4-Dichlorobenzen...	4.972	152	74627	4.000	ug/ml		0.00
Standard Area 3 = 62712			Recovery = 119.00%				
32) IS3_1,4-Dichlorobenzen...	4.972	152	74627	4.000	ug/ml		0.00
Standard Area 2 = 63834			Recovery = 116.91%				
34) IS1_Naphthalene-d8	6.689	136	274102	4.000	ug/ml	#	0.00
Standard Area 1 = 280857			Recovery = 97.59%				
54) IS2_Naphthalene-d8	6.689	136	274102	4.000	ug/ml	#	0.00
Standard Area 3 = 224940			Recovery = 121.86%				
62) IS1_Acenaphthene-d10	8.472	164	180013	4.000	ug/ml		0.00
Standard Area 1 = 178144			Recovery = 101.05%				
82) IS2_Acenaphthene-d10	8.472	164	180013	4.000	ug/ml		0.00
Standard Area 3 = 142327			Recovery = 126.48%				
85) IS3_Acenaphthene-d10	8.472	164	180013	4.000	ug/ml		0.00
Standard Area 2 = 144241			Recovery = 124.80%				
87) IS1_Phenanthrene-d10	9.872	188	381317	4.000	ug/ml	#	0.00
Standard Area 1 = 382454			Recovery = 99.70%				
99) IS3_Phenanthrene-d10	9.872	188	381317	4.000	ug/ml	#	0.00
Standard Area 2 = 315611			Recovery = 120.82%				
103) IS1_Chrysene-d12	12.371	240	344774	4.000	ug/ml		0.00
Standard Area 1 = 352521			Recovery = 97.80%				
112) IS1_Perylene-d12	13.701	264	376901	4.000	ug/ml		0.00
Standard Area 1 = 391116			Recovery = 96.37%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.084	112	12099	0.573	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.65%				
7) Phenol-d6	4.542	99	16253	0.596	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.80%				
19) Nitrobenzene-d5	5.848	82	21367	0.732	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.20%				
45) 2-Fluorobiphenyl	7.872	172	43604	0.686	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.60%				
78) 2,4,6-Tribromophenol	9.230	330	8766	0.915	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 45.75%				

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-2.D
Acq On : 16 Jun 2024 3:54 pm
Operator : SV106:sz
Sample : WG1934854-2,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 17 08:32:10 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.442	244	55390	0.675	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 67.50%			
Target Compounds						Qvalue
6) 2-Chlorophenol	4.572	128	20722	0.903	ug/ml	96
8) Phenol	4.572	94	16716	0.576	ug/ml#	71
14) Bis(2-chloroisopropyl)...	5.572	45	42379	1.250	ug/ml#	77
15) 2-Methylphenol	5.607	108	27321	1.322	ug/ml	99
17) n-Nitrosodi-n-propylamine	5.754	70	26453	1.371	ug/ml	94
18) 3-Methylphenol/4-Methy...	5.842	108	26855	1.196	ug/ml	100
20) Nitrobenzene	5.872	77	40295	1.435	ug/ml#	93
21) Isophorone	6.213	82	73858	1.483	ug/ml#	90
22) 2-Nitrophenol	6.289	139	11370	0.979	ug/ml#	92
23) 2,4-Dimethylphenol	6.466	107	32316	1.374	ug/ml	92
24) Bis(2-chloroethoxy)met...	6.554	93	45677	1.462	ug/ml#	97
25) 2,4-Dichlorophenol	6.595	162	19469	0.908	ug/ml	94
28) Benzaldehyde	3.901	105	28081	1.374	ug/ml	99
29) Acetophenone	5.678	105	55091	1.490	ug/ml#	83
37) 4-Chloroaniline	6.842	65	12787M3	1.167	ug/ml	
39) p-Chloro-m-cresol	7.431	107	29607	1.322	ug/ml	99
42) Hexachlorocyclopentadiene	7.654	237	14799	0.791	ug/ml	97
43) 2,4,6-Trichlorophenol	7.789	196	15641	0.859	ug/ml	97
44) 2,4,5-Trichlorophenol	7.813	196	18148	0.915	ug/ml	97
47) 2-Nitroaniline	8.078	138	25511	1.730	ug/ml	94
50) Dimethyl phthalate	8.307	163	96696	1.437	ug/ml#	98
52) 2,6-Dinitrotoluene	8.336	165	19760	1.462	ug/ml#	81
59) Caprolactam	7.172	55	5776	0.479	ug/ml#	63
60) 1,2,4,5-Tetrachloroben...	7.642	216	32429	1.028	ug/ml	99
61) Biphenyl	7.954	154	75474	1.222	ug/ml	98
63) 3-Nitroaniline	8.477	138	21186	1.608	ug/ml#	83
65) 2,4-Dinitrophenol	8.583	184	5731	0.981	ug/ml	97
66) Dibenzofuran	8.672	168	101521	1.301	ug/ml	99
67) 2,4-Dinitrotoluene	8.713	165	27743	1.547	ug/ml	91
68) 4-Nitrophenol	8.719	65	8880	0.628	ug/ml#	84
71) Diethyl phthalate	9.001	149	100934	1.554	ug/ml	99
73) 4-Chlorophenyl phenyl ...	9.048	204	40300	1.249	ug/ml	93
74) 4-Nitroaniline	9.054	138	21060	1.632	ug/ml#	80

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-2.D
Acq On : 16 Jun 2024 3:54 pm
Operator : SV106:sz
Sample : WG1934854-2,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 17 08:32:10 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.095	198	9974	0.987	ug/ml#	69
76)	NDPA/DPA	9.166	169	70543	1.397	ug/ml	97
79)	4-Bromophenyl phenyl e...	9.501	248	25901	1.348	ug/ml	93
86)	Atrazine	9.724	200	28241	1.558	ug/ml#	82
90)	Carbazole	10.124	167	133371	1.565	ug/ml	99
91)	Di-n-butylphthalate	10.571	149	165653	1.595	ug/ml	99
96)	Butyl benzyl phthalate	11.971	149	79460	1.799	ug/ml	93
105)	3,3'-Dichlorobenzidine	12.395	252	61877	1.611	ug/ml#	97
107)	Bis(2-ethylhexyl)phtha...	12.583	149	114233	1.728	ug/ml#	89
108)	Di-n-octylphthalate	13.207	149	194606	1.797	ug/ml#	73

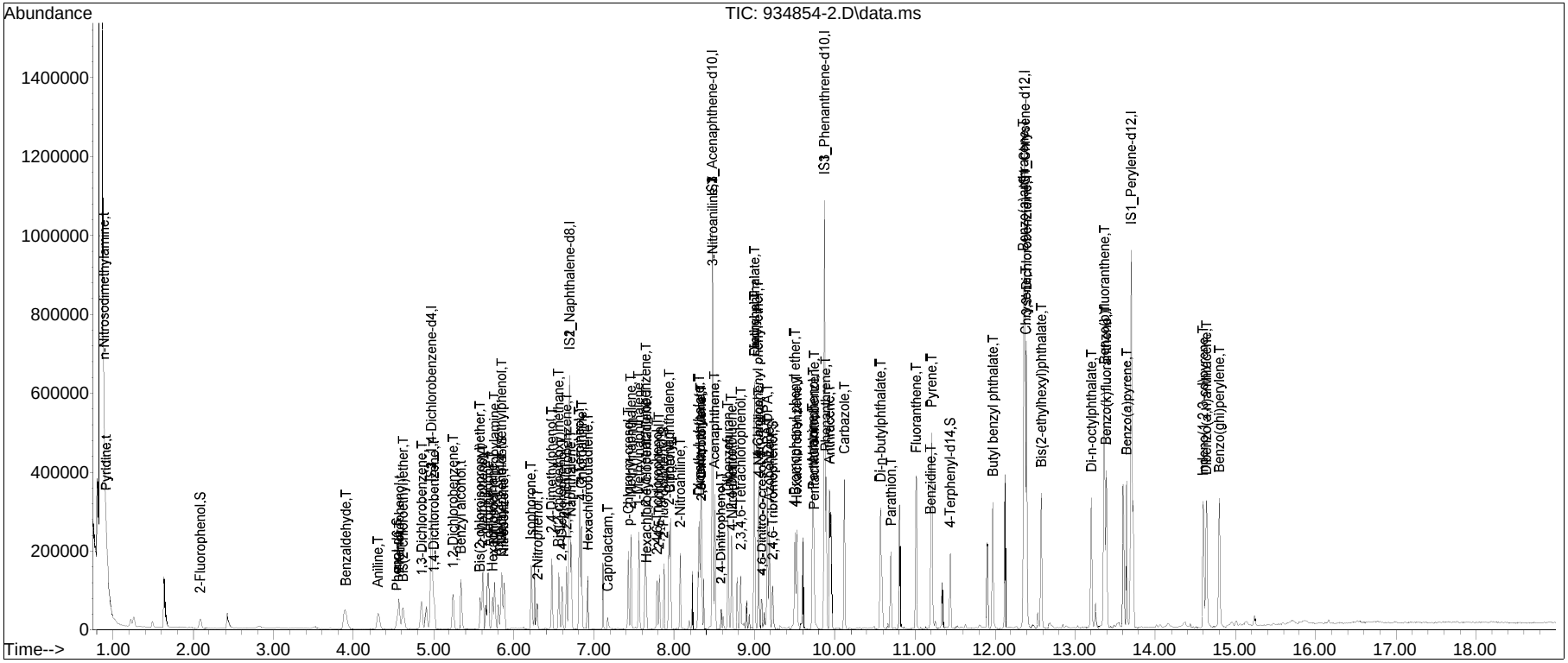
(#) = qualifier out of range (m) = manual integration (+) = signals summed

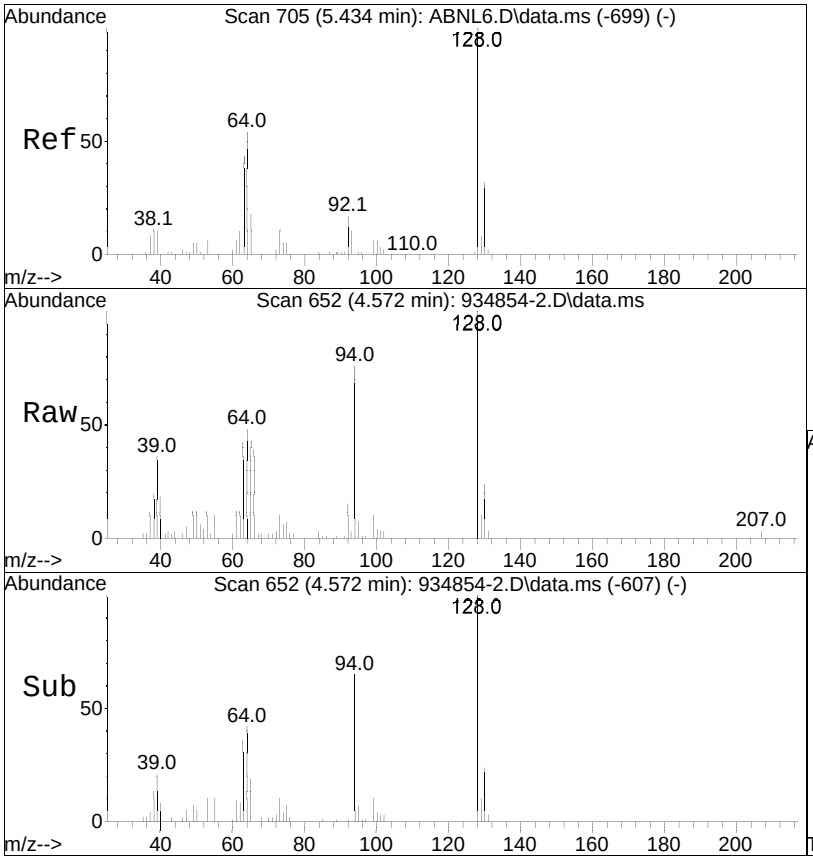
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-2.D
Acq On : 16 Jun 2024 3:54 pm
Operator : SV106:sz
Sample : WG1934854-2,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 17 08:32:10 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90616.D•

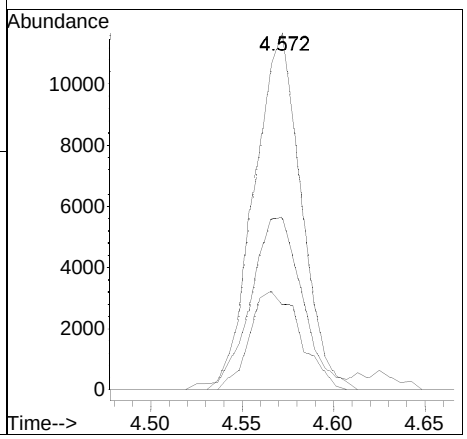


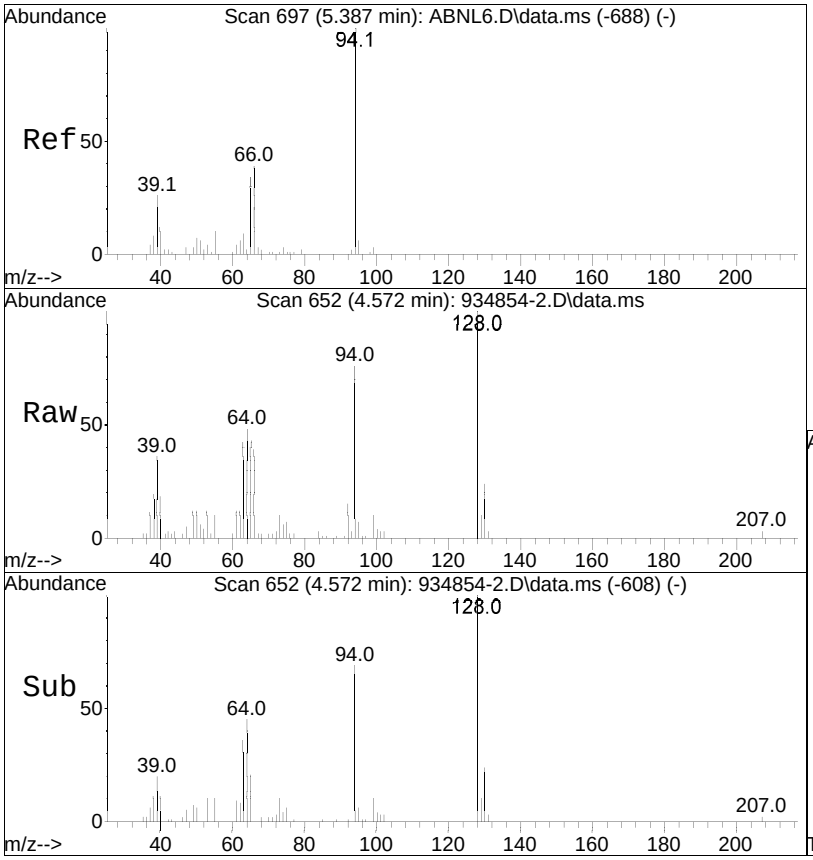


#6
2-Chlorophenol
Concen: 0.90 ug/ml
RT: 4.572 min Scan# 652
Delta R.T. 0.012 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:128 Resp: 20722

Ion	Ratio	Lower	Upper
128	100		
64	53.6	45.1	67.7
130	30.1	26.2	39.4

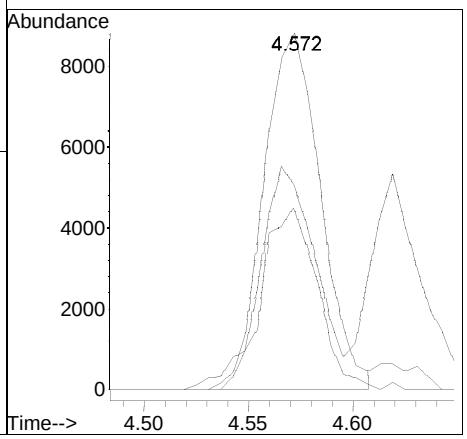


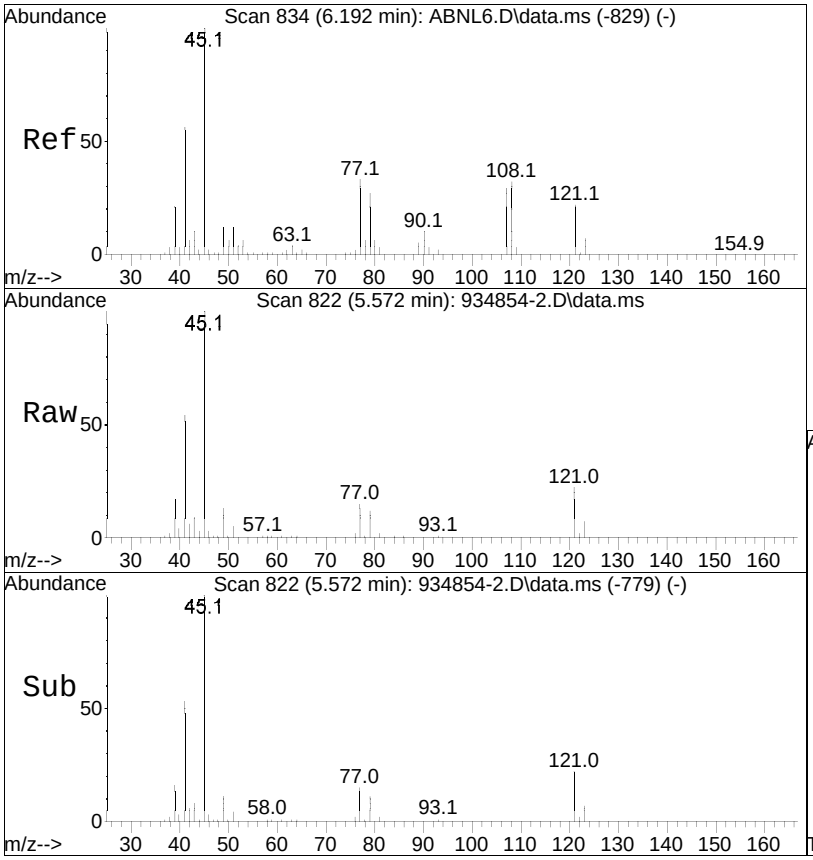


#8
Phenol
Concen: 0.58 ug/ml
RT: 4.572 min Scan# 652
Delta R.T. 0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 94 Resp: 16716

Ion	Ratio	Lower	Upper
94	100		
65	59.6	26.0	39.0#
66	51.7	33.8	50.8#

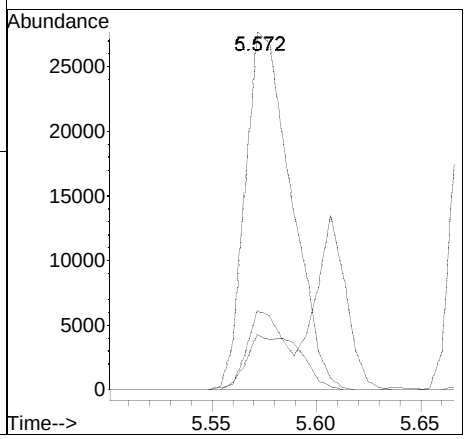


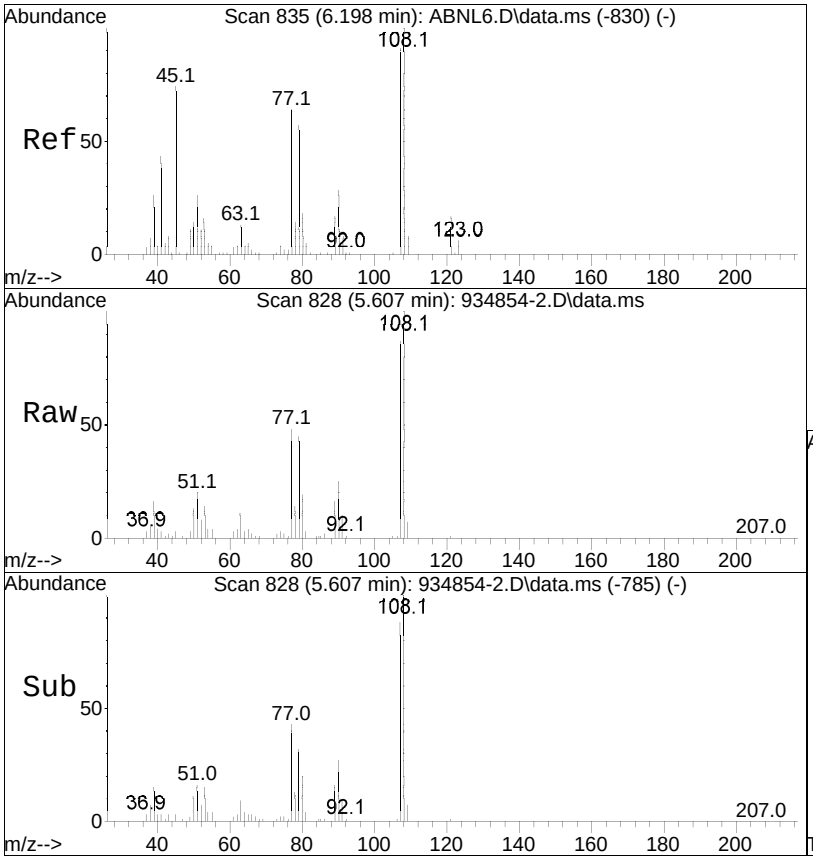


#14
Bis(2-chloroisopropyl)ether
Concen: 1.25 ug/ml
RT: 5.572 min Scan# 822
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 45 Resp: 42379

Ion	Ratio	Lower	Upper
45	100		
121	21.7	9.8	14.6#
77	14.4	6.1	9.1#

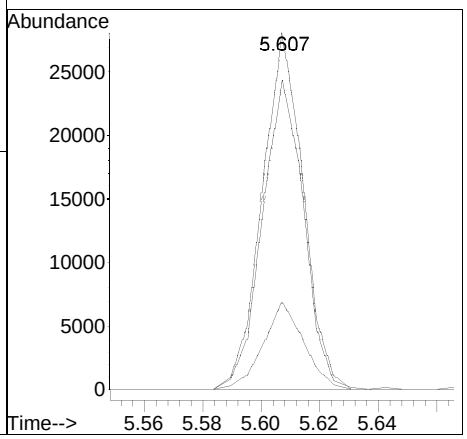


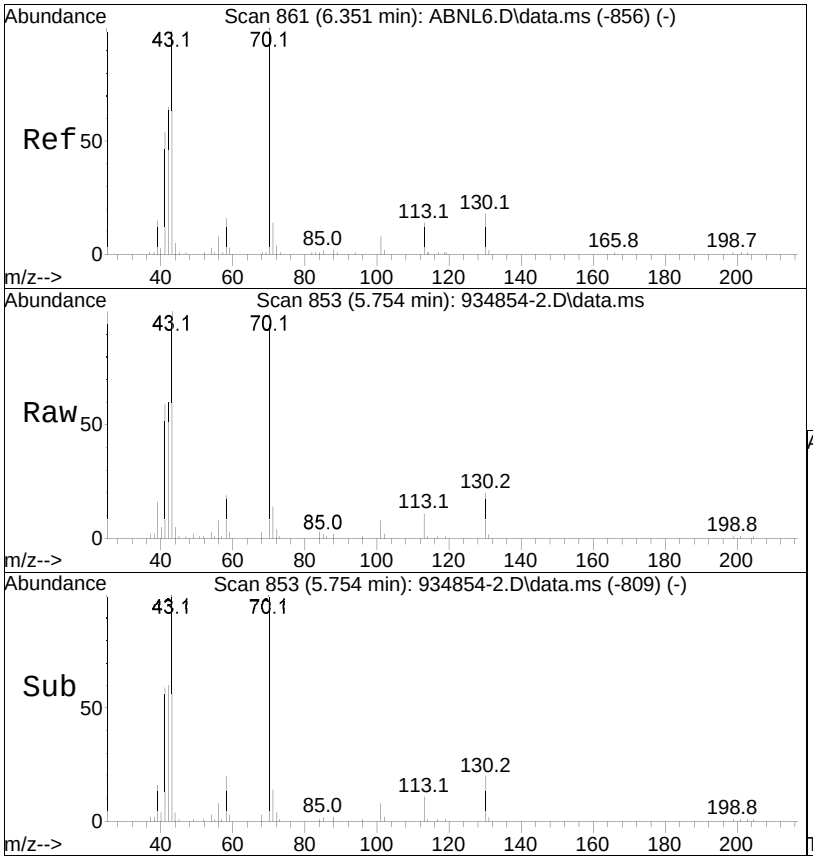


#15
2-Methylphenol
Concen: 1.32 ug/ml
RT: 5.607 min Scan# 828
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:108 Resp: 27321

Ion	Ratio	Lower	Upper
108	100		
107	87.5	70.7	106.1
90	24.4	18.7	28.1

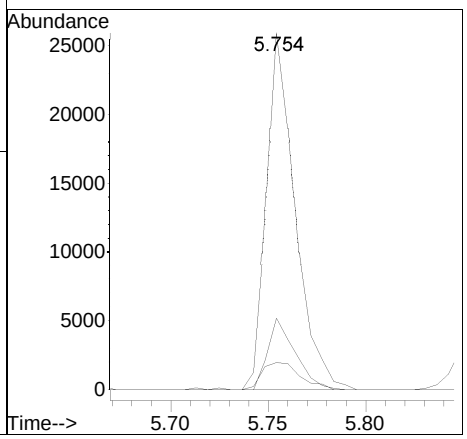


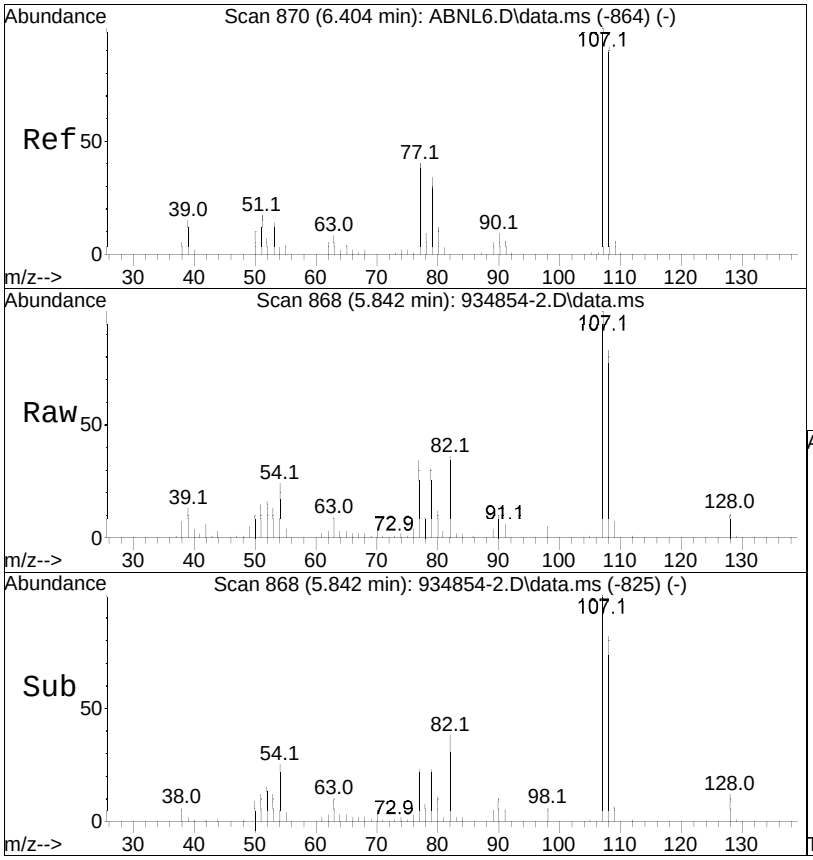


#17
n-Nitrosodi-n-propylamine
Concen: 1.37 ug/ml
RT: 5.754 min Scan# 853
Delta R.T. 0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 70 Resp: 26453

Ion	Ratio	Lower	Upper
70	100		
130	19.1	18.2	27.4
101	10.2	7.8	11.8

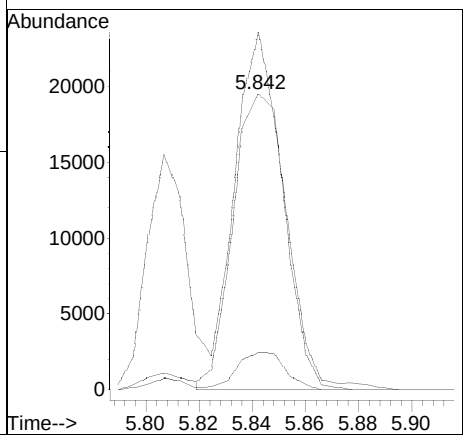


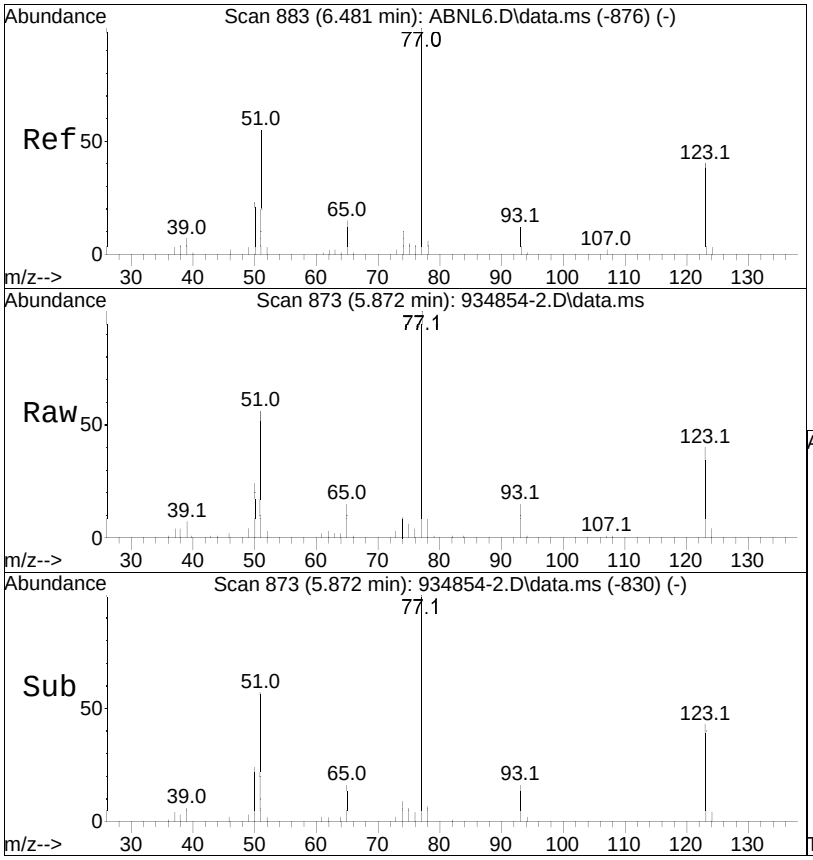


#18
3-Methylphenol/4-Methylphenol
Concen: 1.20 ug/ml
RT: 5.842 min Scan# 868
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:108 Resp: 26855

Ion	Ratio	Lower	Upper
108	100		
107	110.8	88.6	132.8
90	11.9	8.8	13.2

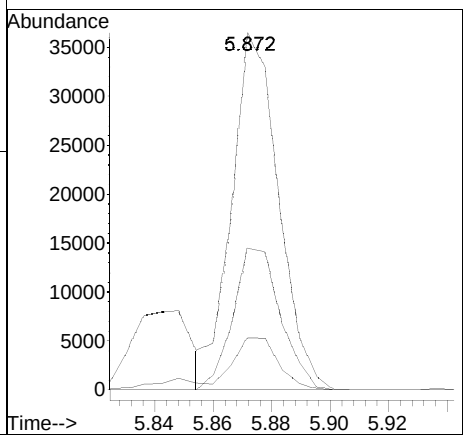


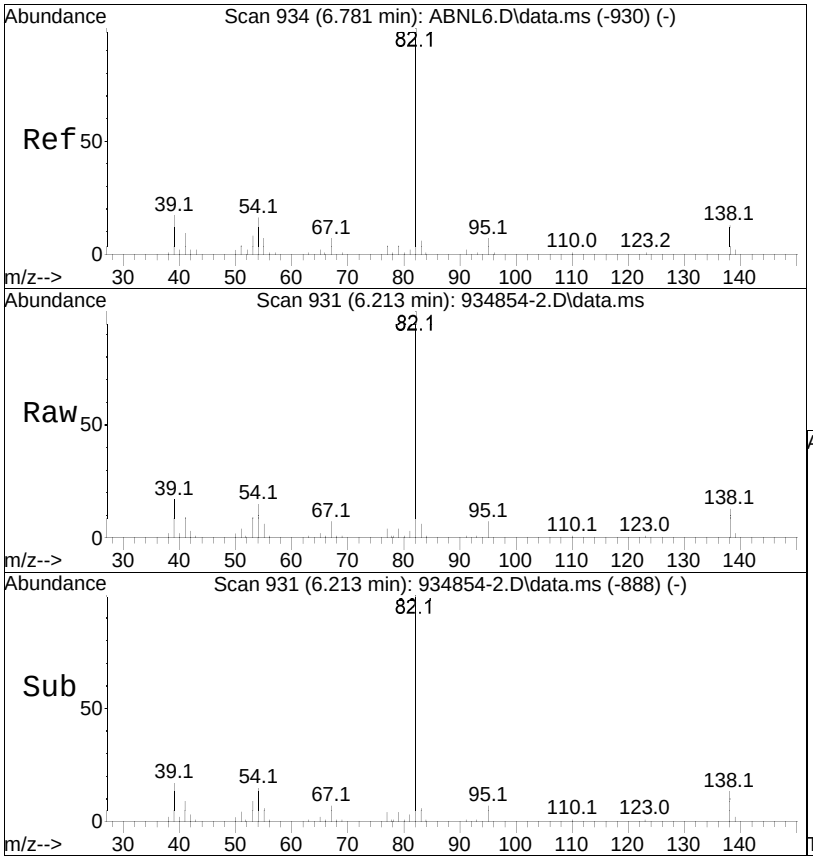


#20
Nitrobenzene
Concen: 1.44 ug/ml
RT: 5.872 min Scan# 873
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 77 Resp: 40295

Ion	Ratio	Lower	Upper
77	100		
123	40.5	36.3	54.5
65	17.6	11.6	17.4#

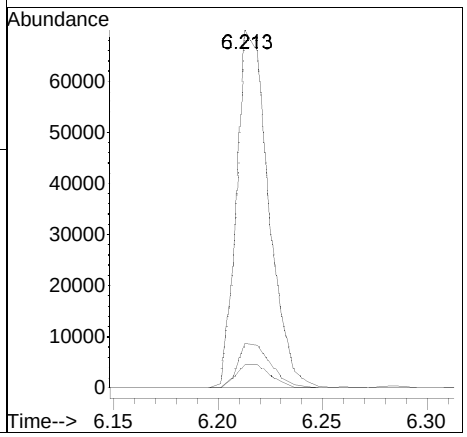


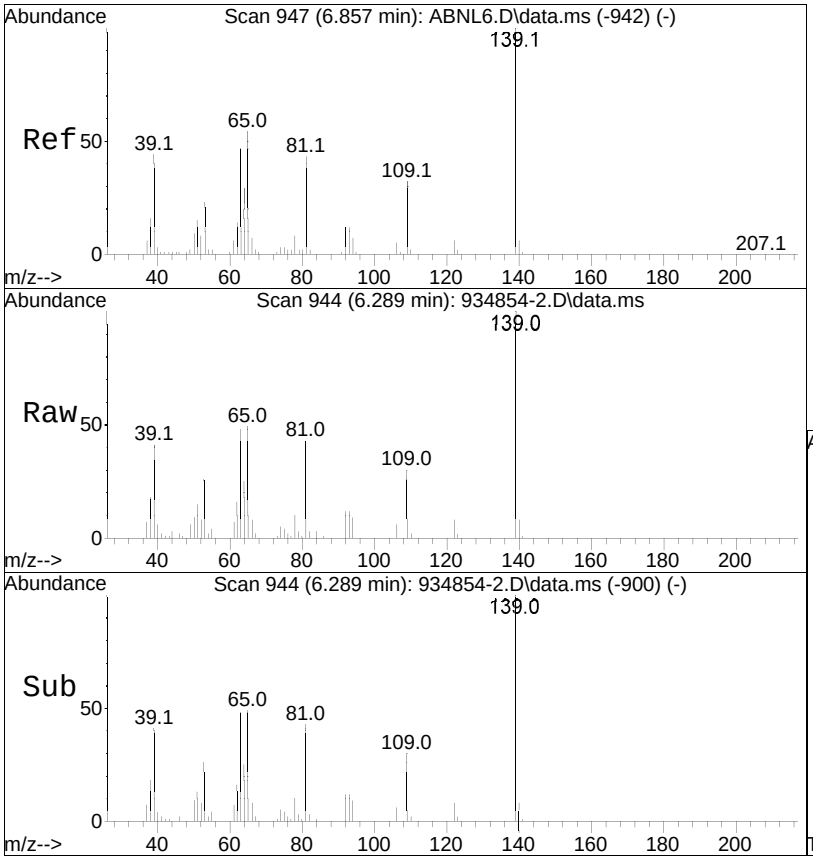


#21
Isophorone
Concen: 1.48 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 82 Resp: 73858

Ion	Ratio	Lower	Upper
82	100		
138	13.0	14.7	22.1#
95	7.2	5.2	7.8

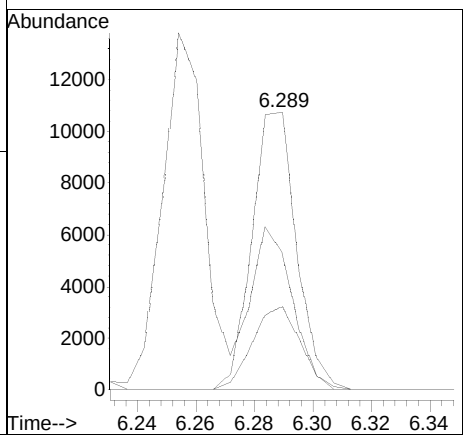


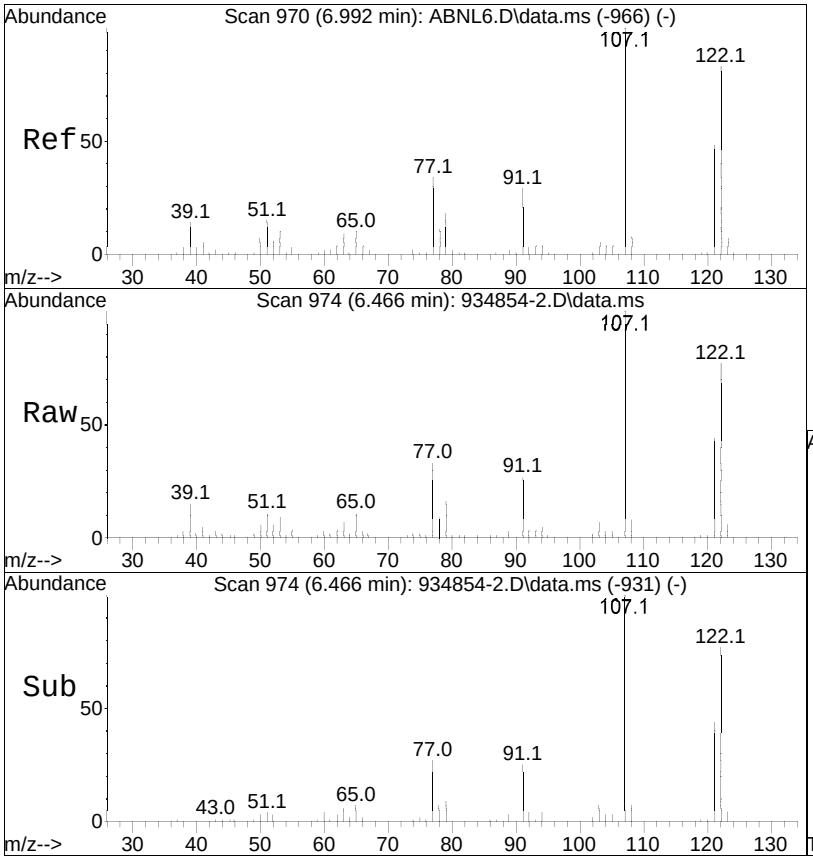


#22
2-Nitrophenol
Concen: 0.98 ug/ml
RT: 6.289 min Scan# 944
Delta R.T. 0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:139 Resp: 11370

Ion	Ratio	Lower	Upper
139	100		
109	32.2	19.4	29.0#
65	54.3	46.1	69.1

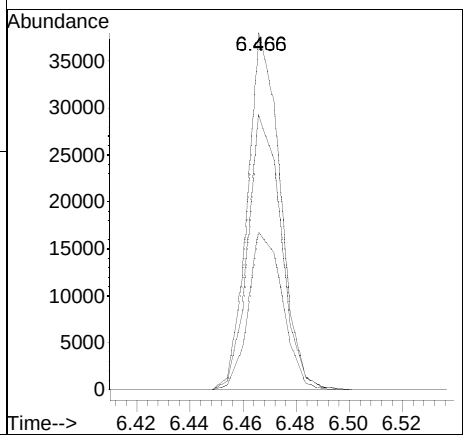


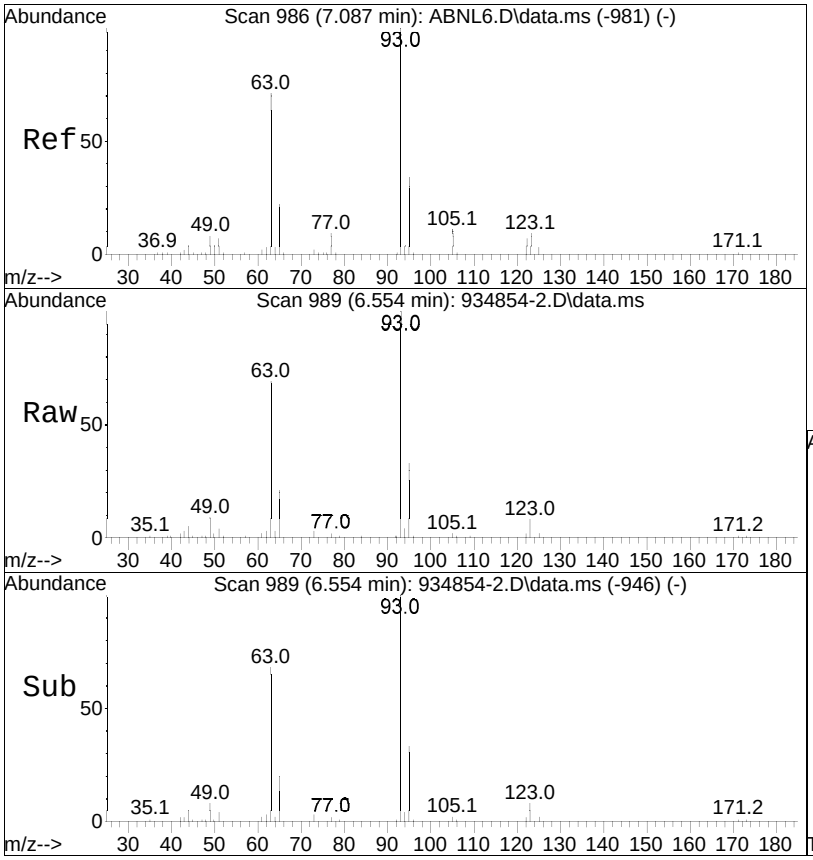


#23
2,4-Dimethylphenol
Concen: 1.37 ug/ml
RT: 6.466 min Scan# 974
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:107 Resp: 32316

Ion	Ratio	Lower	Upper
107	100		
121	46.3	40.0	60.0
122	78.6	70.2	105.4

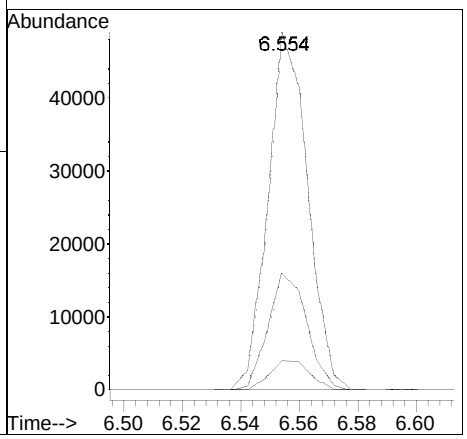


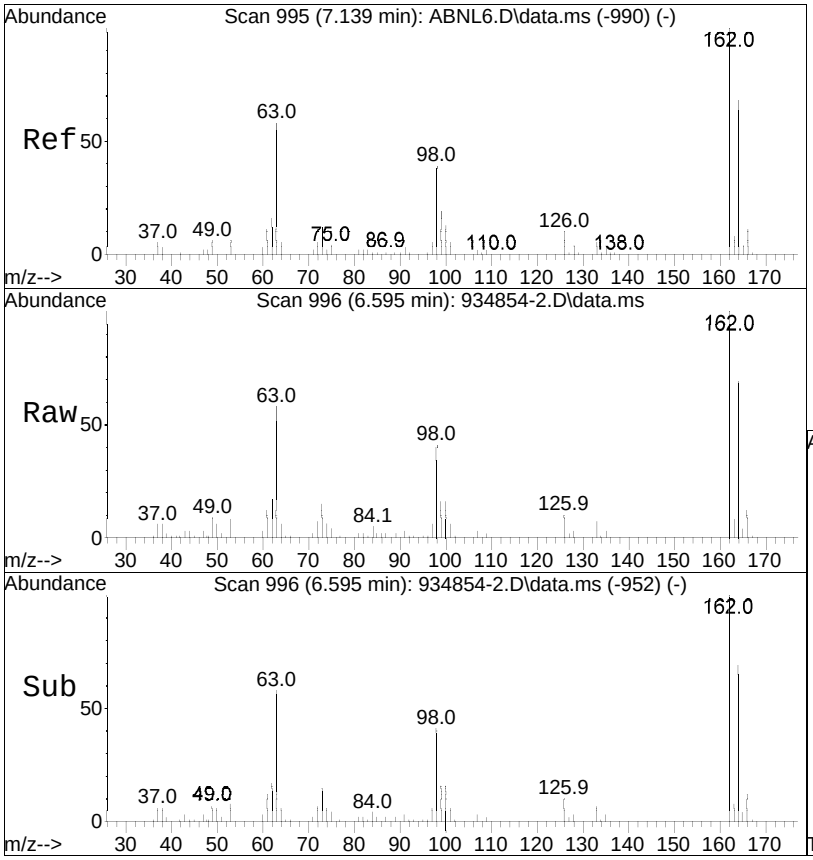


#24
Bis(2-chloroethoxy)methane
Concen: 1.46 ug/ml
RT: 6.554 min Scan# 989
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 93 Resp: 45677

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	8.5	10.1	15.1#

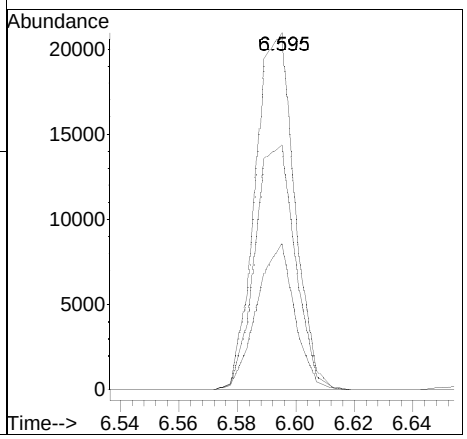


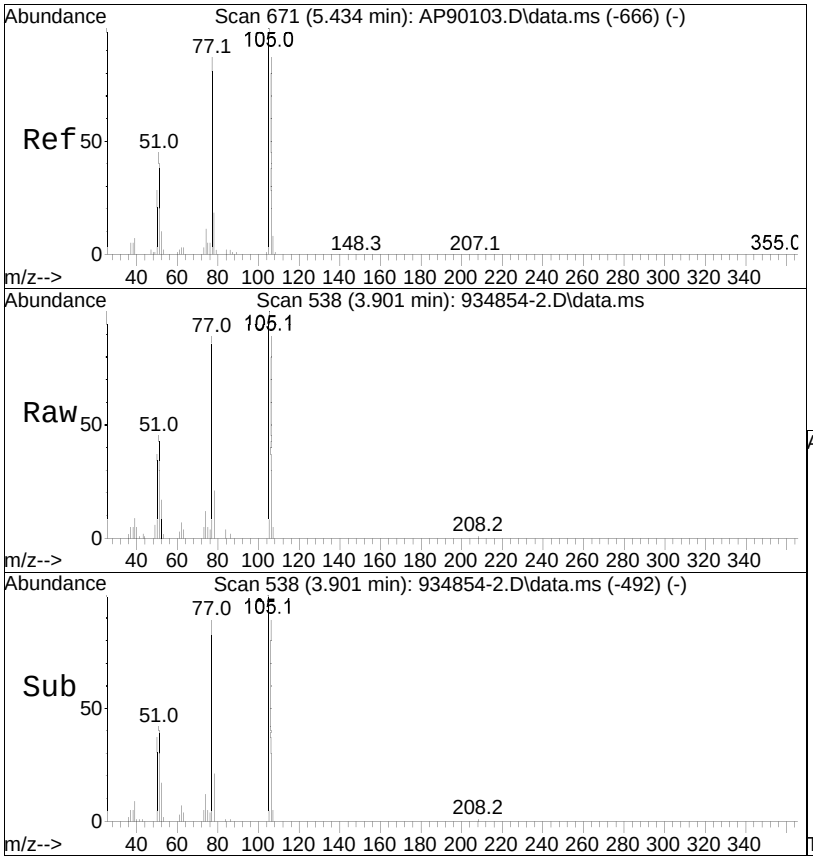


#25
2,4-Dichlorophenol
Concen: 0.91 ug/ml
RT: 6.595 min Scan# 996
Delta R.T. 0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:162 Resp: 19469

Ion	Ratio	Lower	Upper
162	100		
164	70.4	51.0	76.4
98	39.8	32.2	48.2

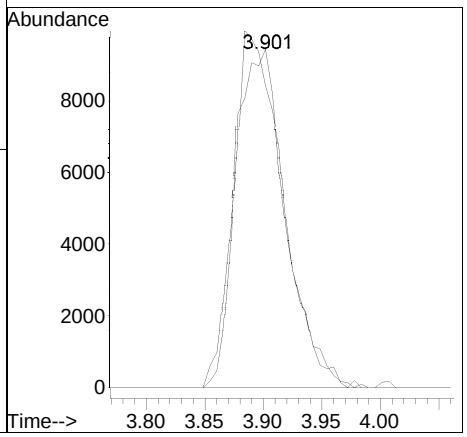


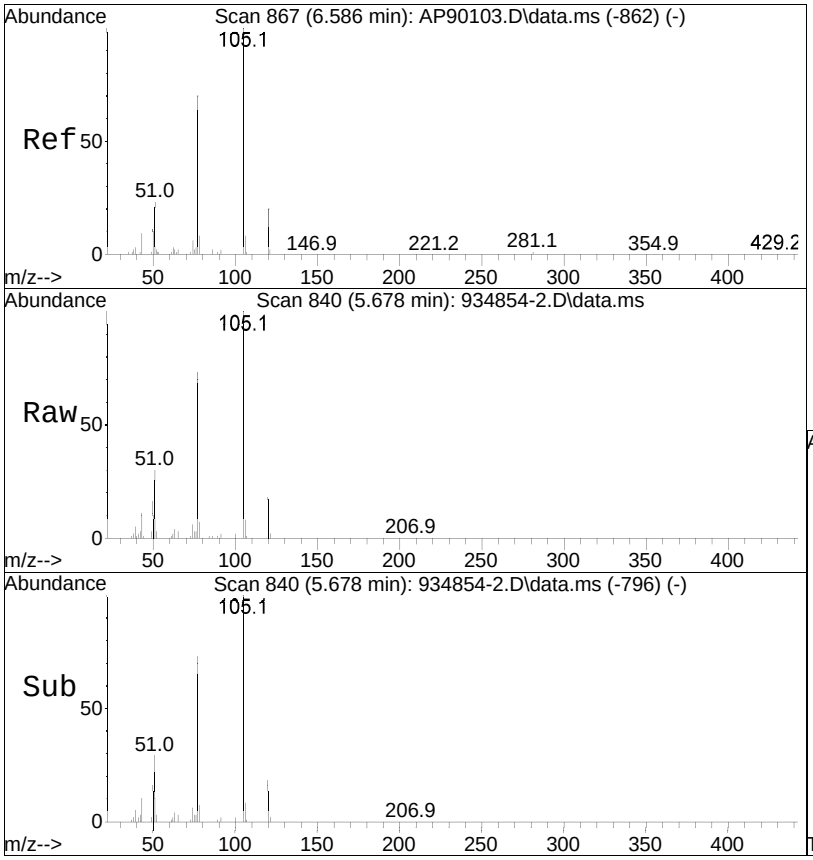


#28
Benzaldehyde
Concen: 1.37 ug/ml
RT: 3.901 min Scan# 538
Delta R.T. 0.018 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:105 Resp: 28081

Ion	Ratio	Lower	Upper
105	100		
77	103.7	82.2	123.4

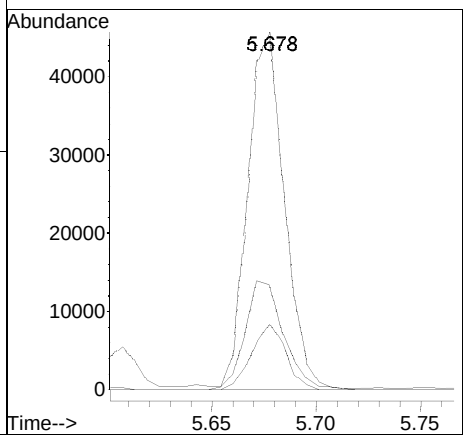


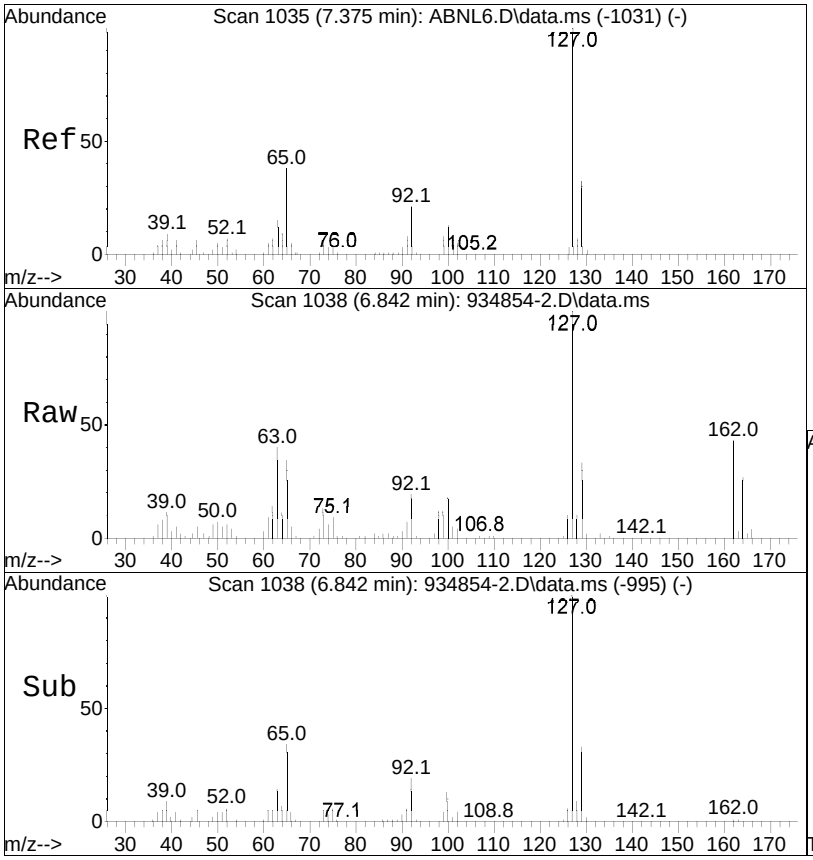


#29
Acetophenone
Concen: 1.49 ug/ml
RT: 5.678 min Scan# 840
Delta R.T. 0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:105 Resp: 55091

Ion	Ratio	Lower	Upper
105	100		
120	17.2	20.5	30.7#
51	32.0	34.9	52.3#

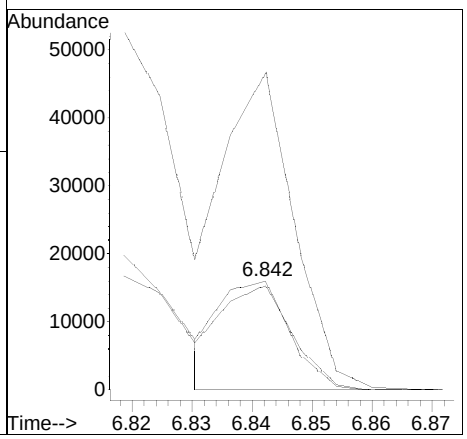


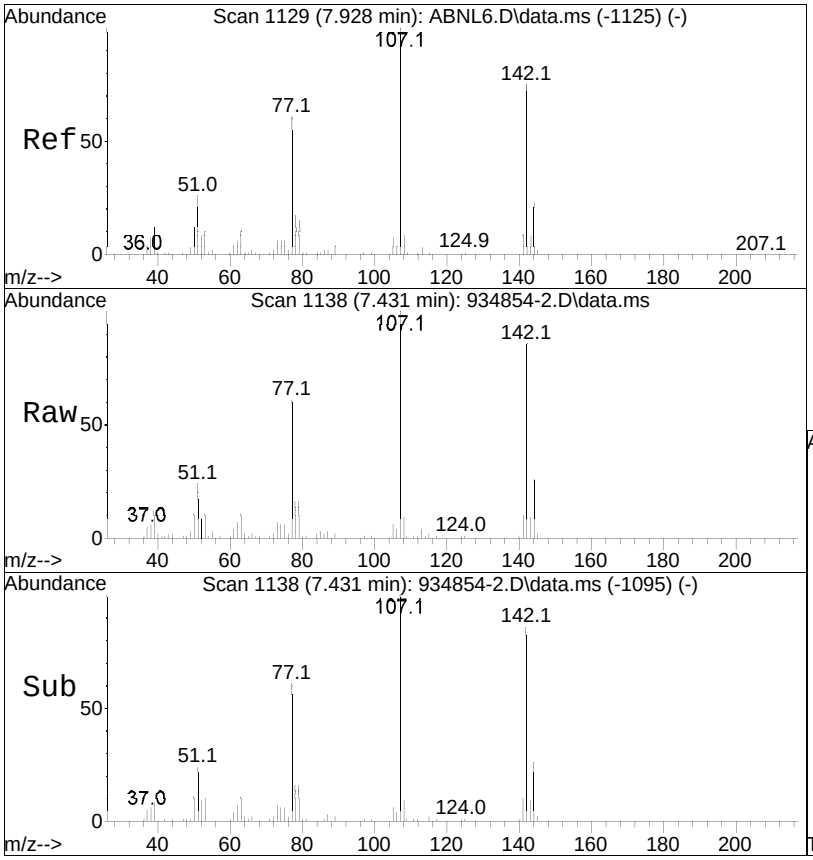


#37
4-Chloroaniline
Concen: 1.17 ug/ml M3
RT: 6.842 min Scan# 1038
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 65 Resp: 12787

Ion	Ratio	Lower	Upper
65	100		
127	363.8	237.6	356.4#
129	118.1	76.3	114.5#

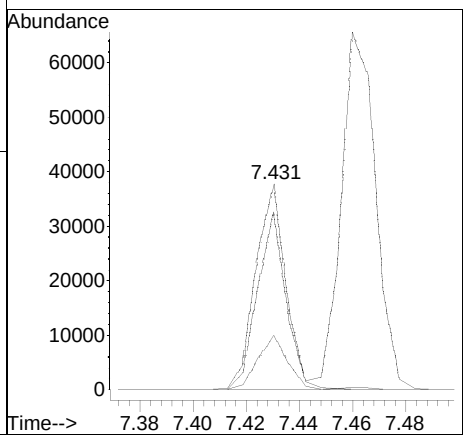


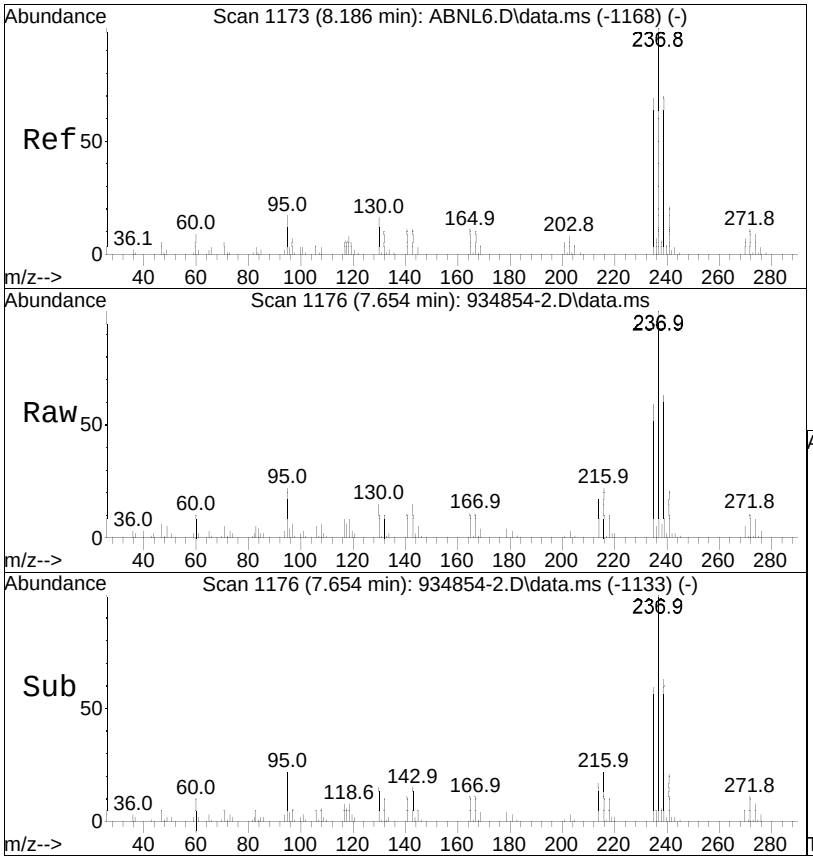


#39
p-Chloro-m-cresol
Concen: 1.32 ug/ml
RT: 7.431 min Scan# 1138
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:107 Resp: 29607

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.9	31.3
142	81.5	66.1	99.1

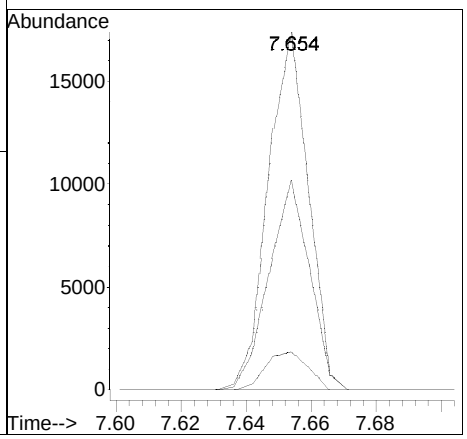


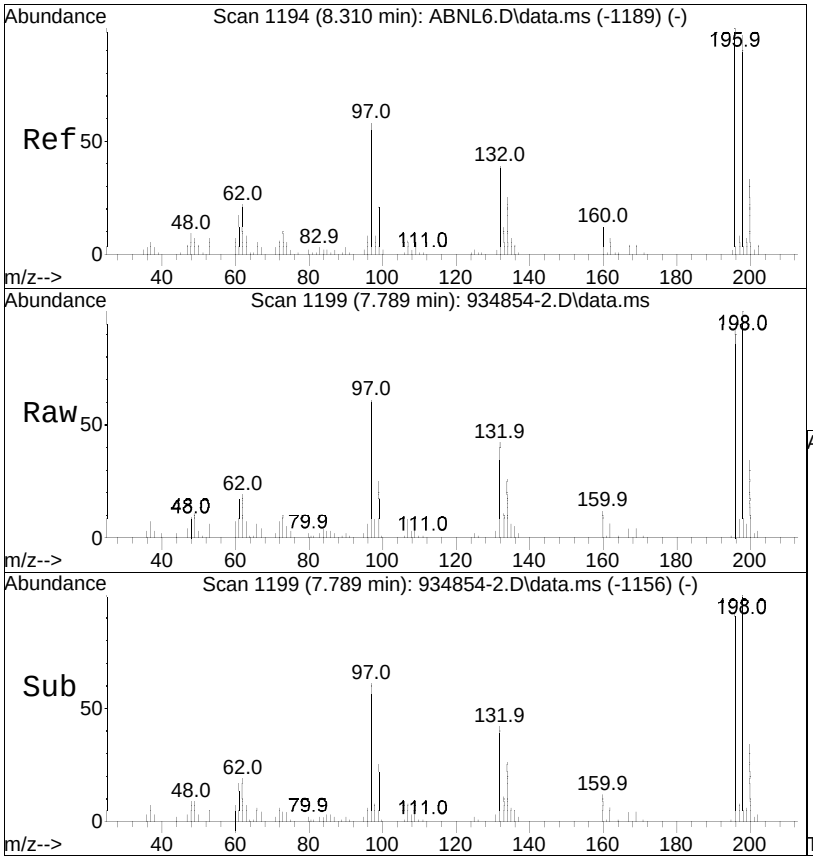


#42
Hexachlorocyclopentadiene
Concen: 0.79 ug/ml
RT: 7.654 min Scan# 1176
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:237 Resp: 14799

Ion	Ratio	Lower	Upper
237	100		
235	59.7	49.7	74.5
272	11.4	9.8	14.6

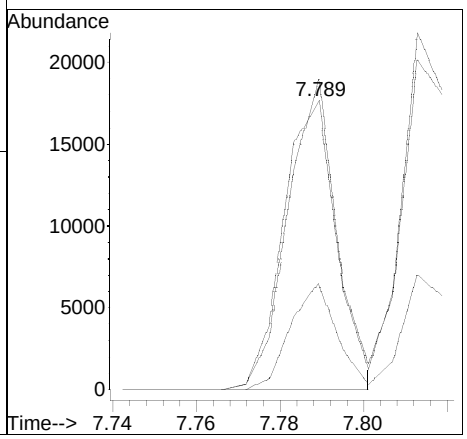


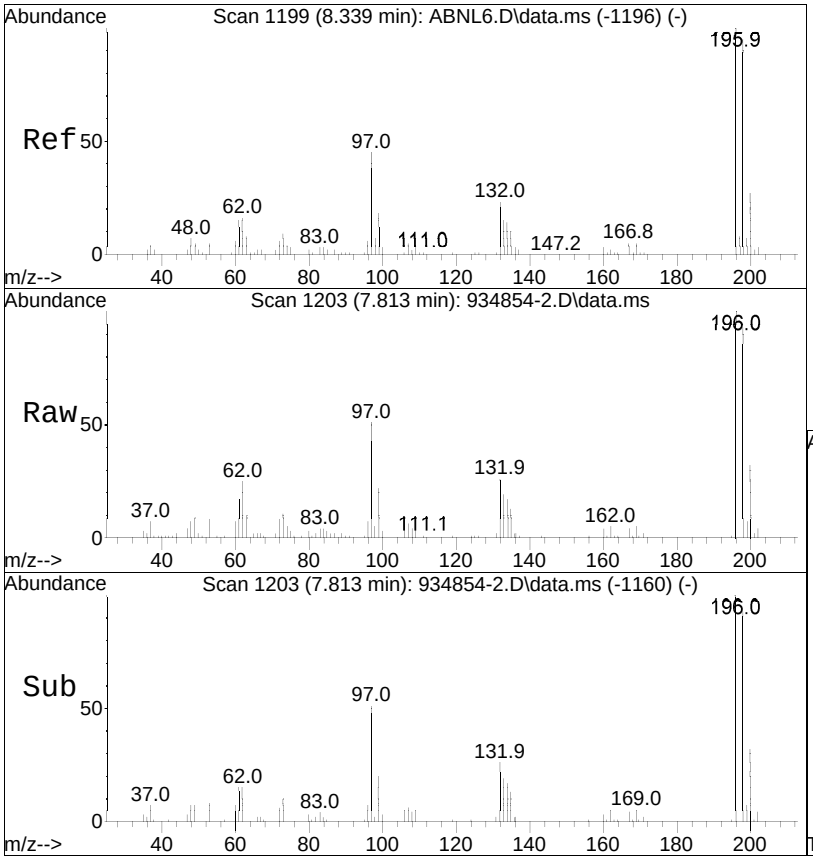


#43
2,4,6-Trichlorophenol
Concen: 0.86 ug/ml
RT: 7.789 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:196 Resp: 15641

Ion	Ratio	Lower	Upper
196	100		
198	99.1	77.5	116.3
200	32.4	23.8	35.6

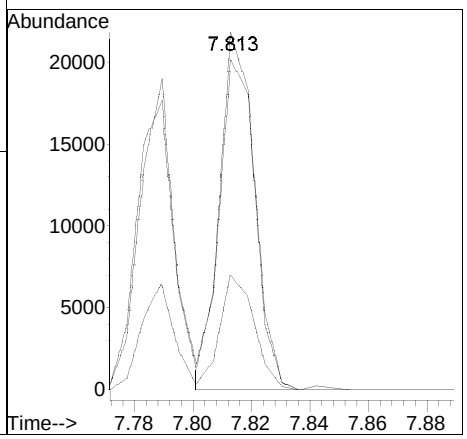


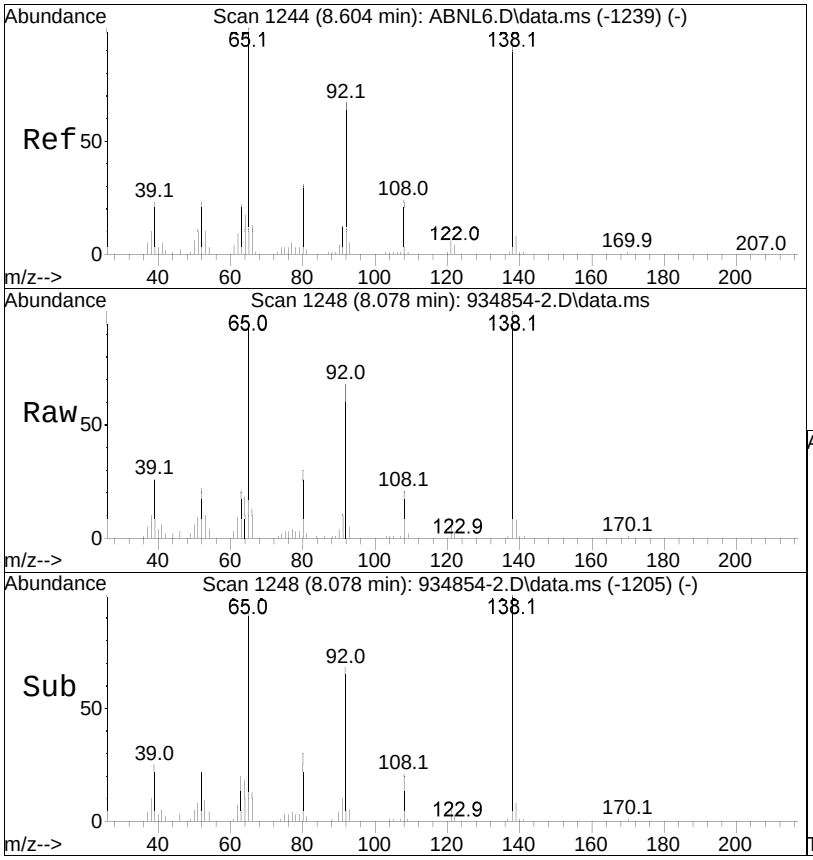


#44
2,4,5-Trichlorophenol
Concen: 0.92 ug/ml
RT: 7.813 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:196 Resp: 18148

Ion	Ratio	Lower	Upper
196	100		
200	31.6	25.4	38.0
198	94.0	78.0	117.0

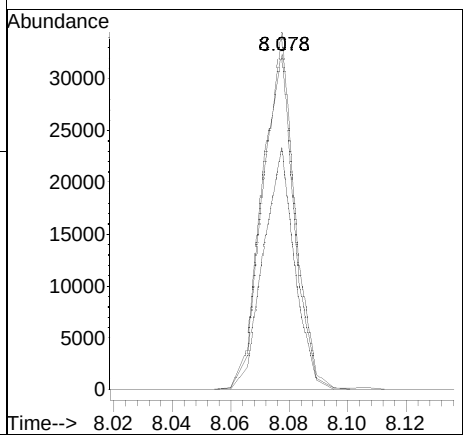


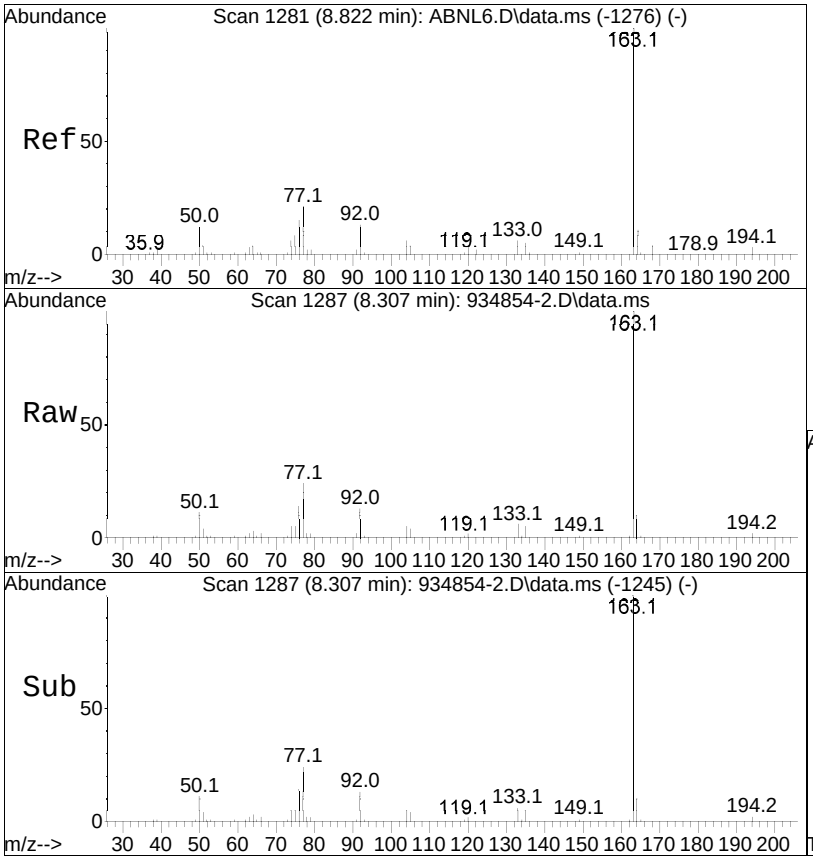


#47
2-Nitroaniline
Concen: 1.73 ug/ml
RT: 8.078 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:138 Resp: 25511

Ion	Ratio	Lower	Upper
138	100		
92	67.2	53.5	80.3
65	97.8	86.3	129.5

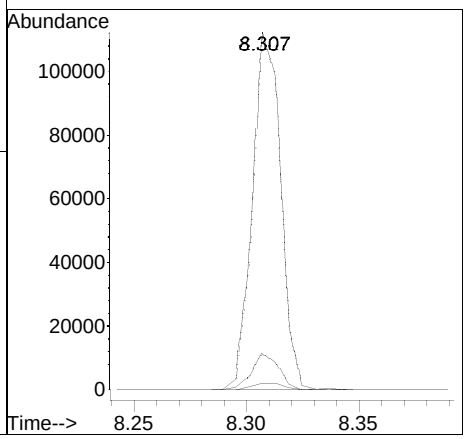


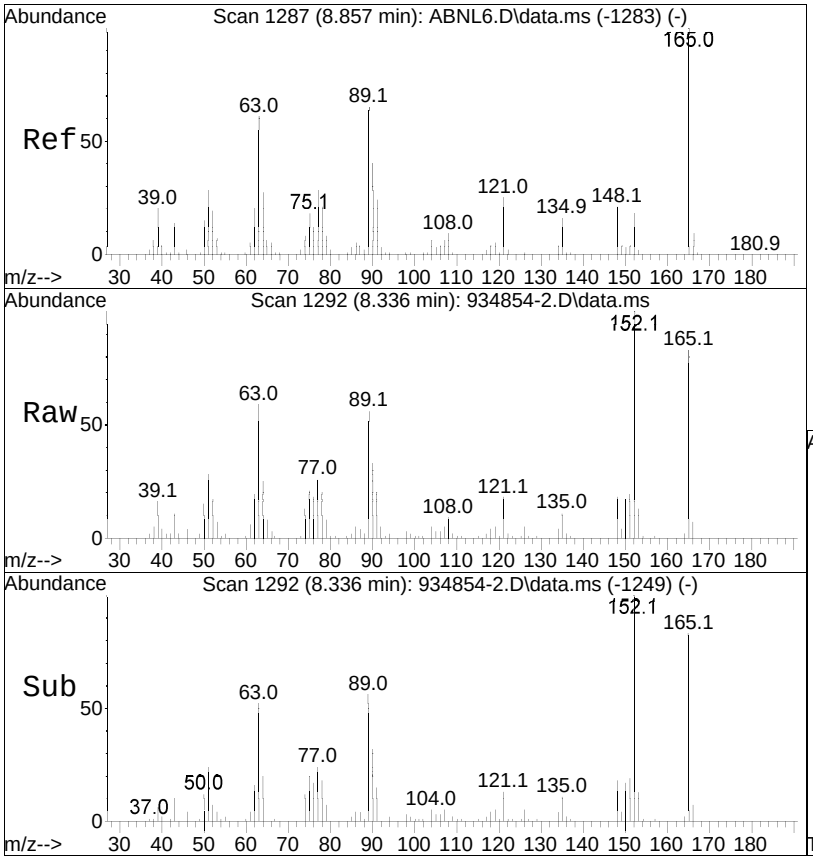


#50
Dimethyl phthalate
Concen: 1.44 ug/ml
RT: 8.307 min Scan# 1287
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:163 Resp: 96696

Ion	Ratio	Lower	Upper
163	100		
194	2.2	3.5	5.3#
164	10.0	7.9	11.9

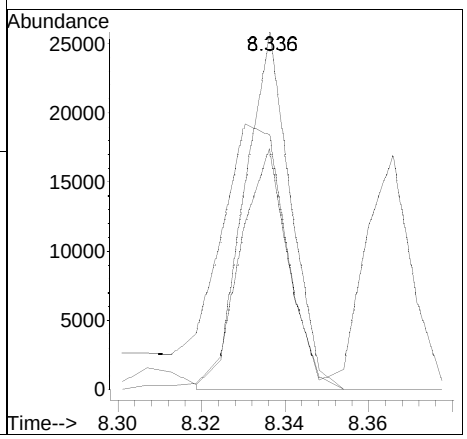


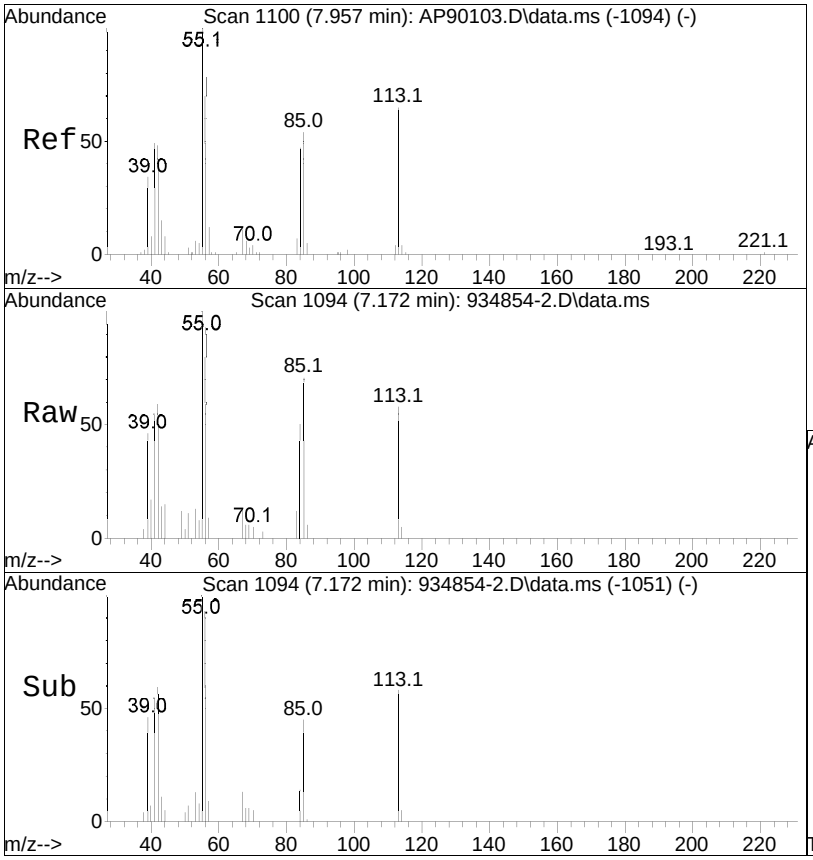


#52
2,6-Dinitrotoluene
Concen: 1.46 ug/ml
RT: 8.336 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:165 Resp: 19760

Ion	Ratio	Lower	Upper
165	100		
89	72.2	54.2	81.2
63	107.0	64.2	96.2#

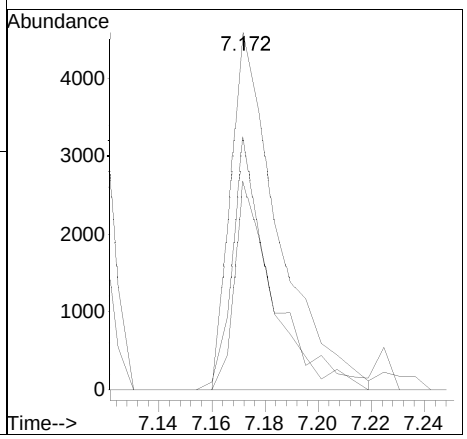


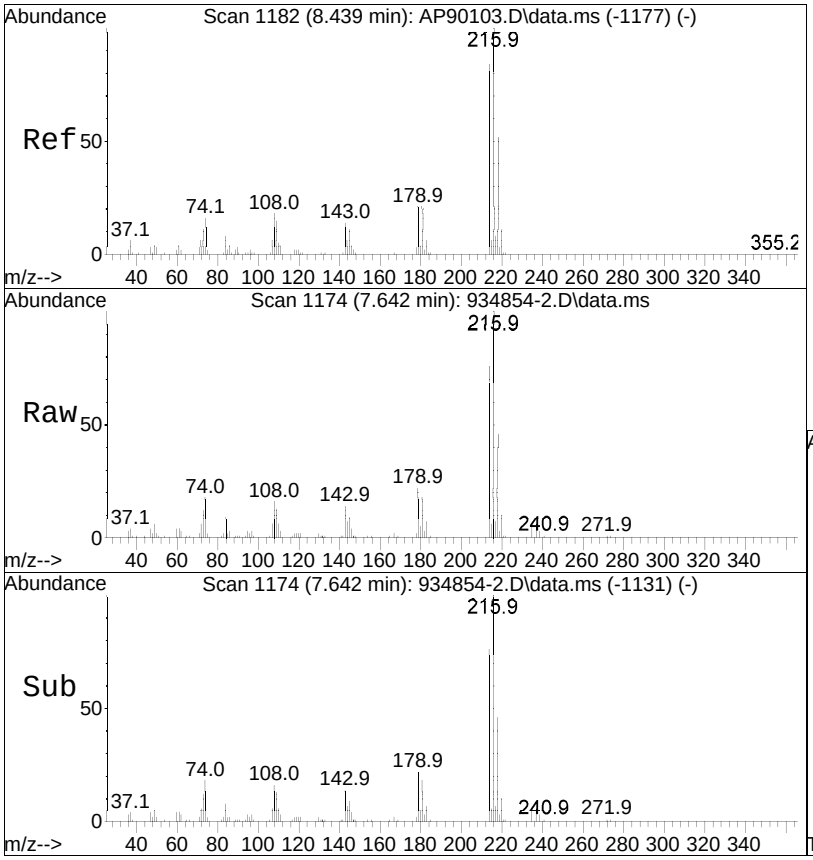


#59
Caprolactam
Concen: 0.48 ug/ml
RT: 7.172 min Scan# 1094
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 55 Resp: 5776

Ion	Ratio	Lower	Upper
55	100		
85	58.2	19.8	29.6#
113	47.2	29.6	44.4#

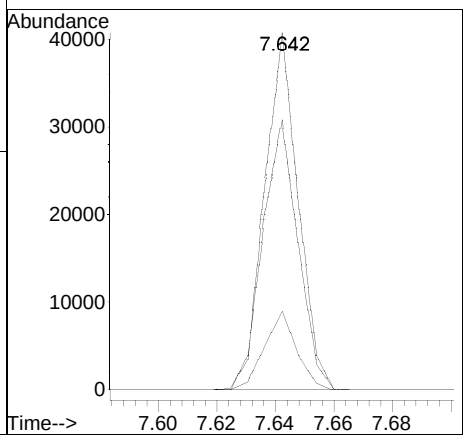


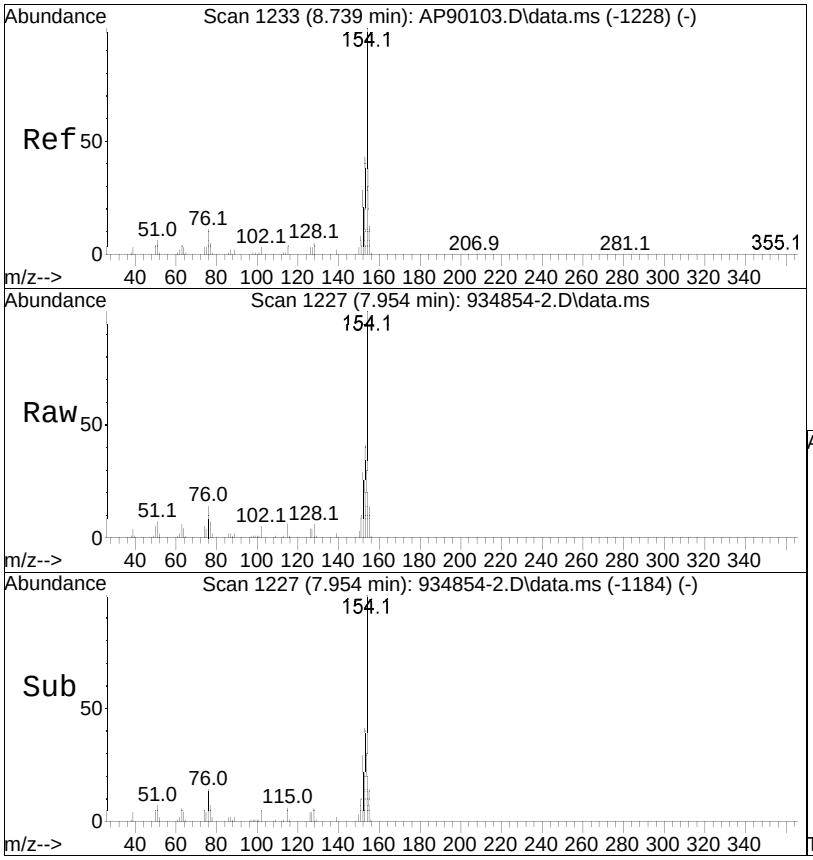


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.03 ug/ml
RT: 7.642 min Scan# 1174
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:216 Resp: 32429

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.7	95.5
179	21.3	19.0	28.6

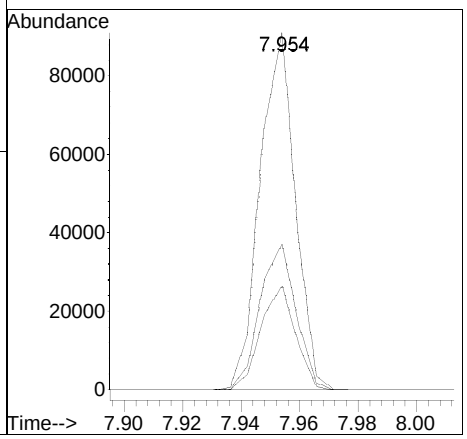


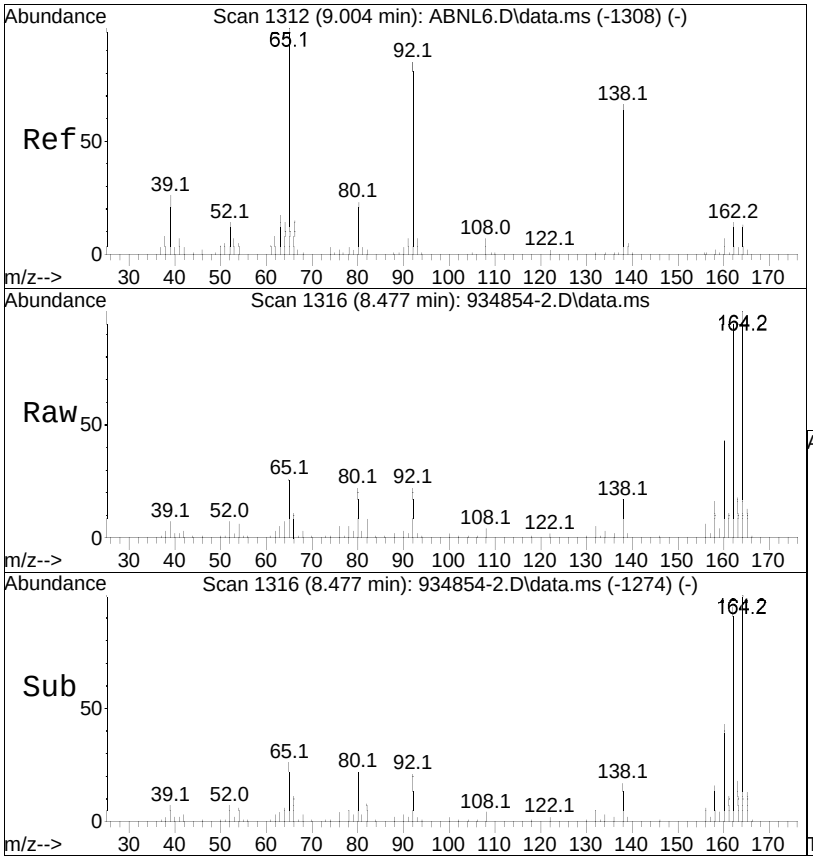


#61
Biphenyl
Concen: 1.22 ug/ml
RT: 7.954 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:154 Resp: 75474

Ion	Ratio	Lower	Upper
154	100		
153	42.0	32.3	48.5
152	28.9	22.5	33.7

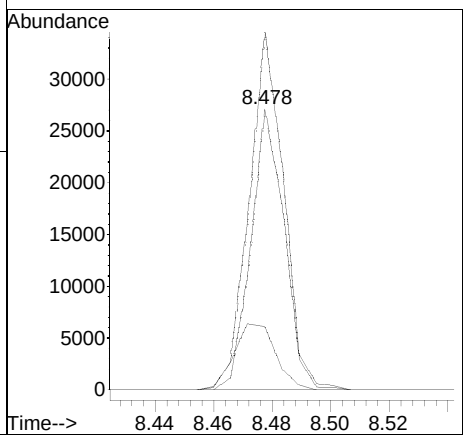


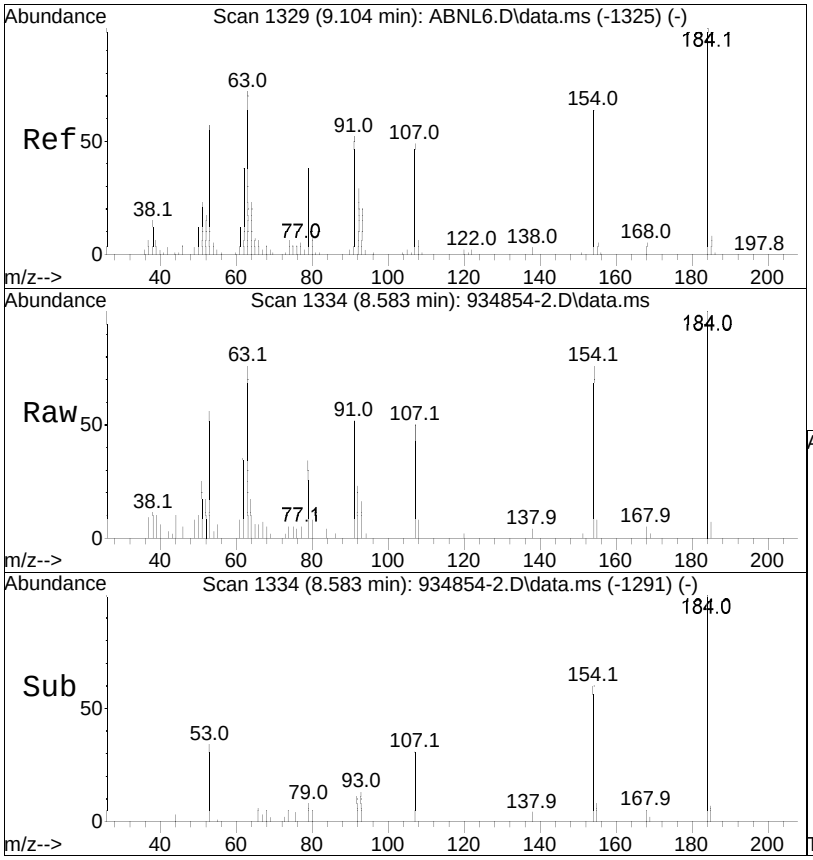


#63
3-Nitroaniline
Concen: 1.61 ug/ml
RT: 8.477 min Scan# 1316
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:138 Resp: 21186

Ion	Ratio	Lower	Upper
138	100		
92	132.2	93.4	140.2
108	29.8	9.5	14.3#

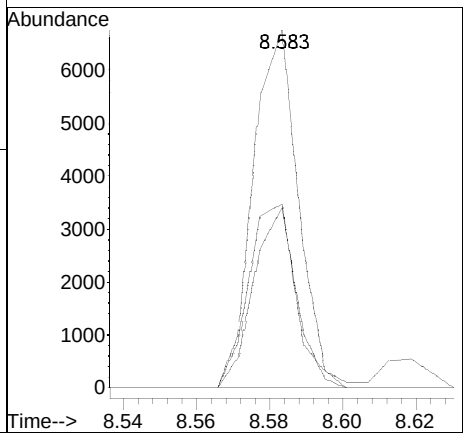


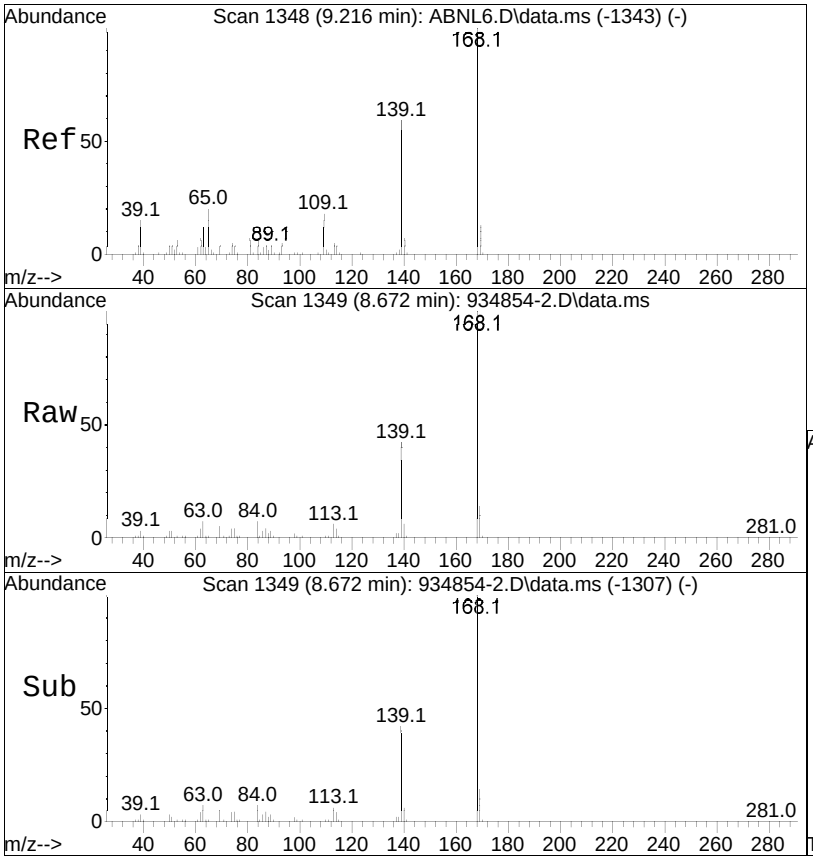


#65
2,4-Dinitrophenol
Concen: 0.98 ug/ml
RT: 8.583 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:184 Resp: 5731

Ion	Ratio	Lower	Upper
184	100		
107	48.1	37.7	56.5
91	55.1	46.3	69.5

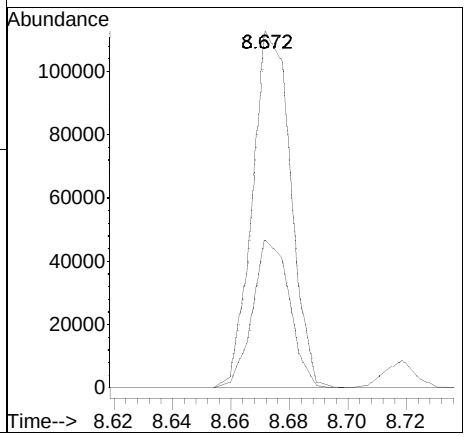


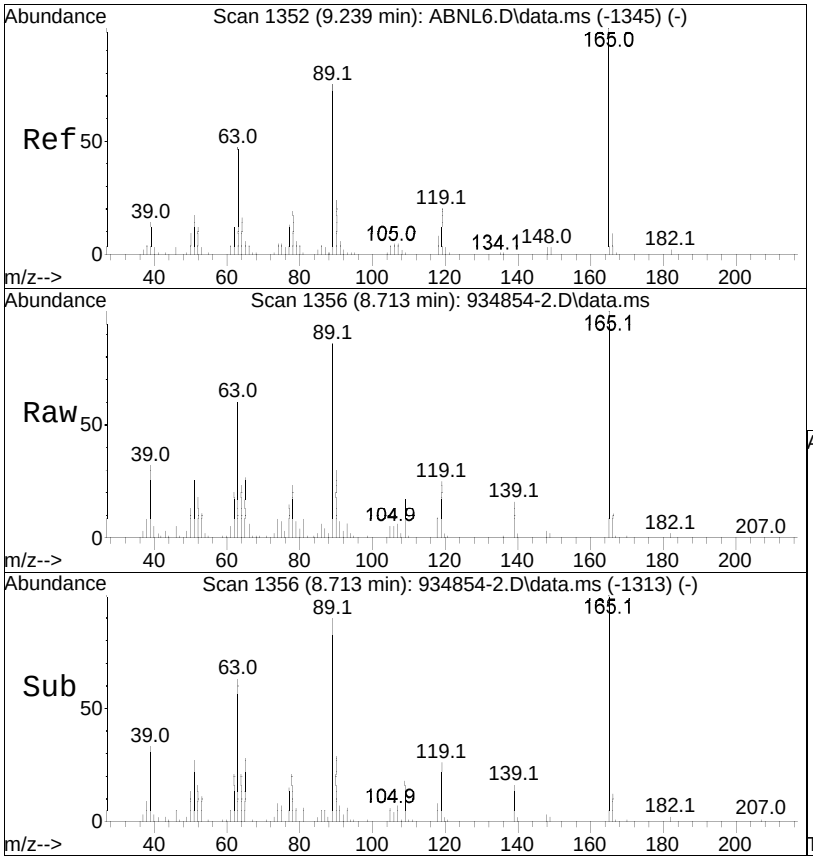


#66
Dibenzofuran
Concen: 1.30 ug/ml
RT: 8.672 min Scan# 1349
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:168 Resp: 101521

Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.4	47.2

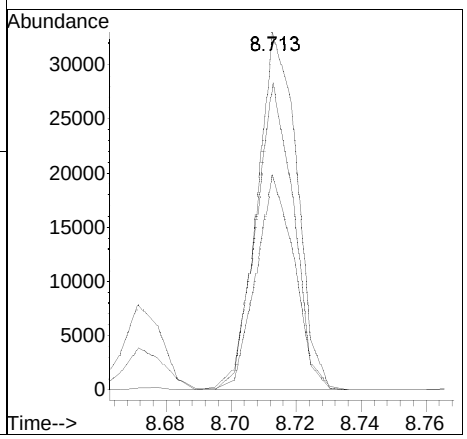


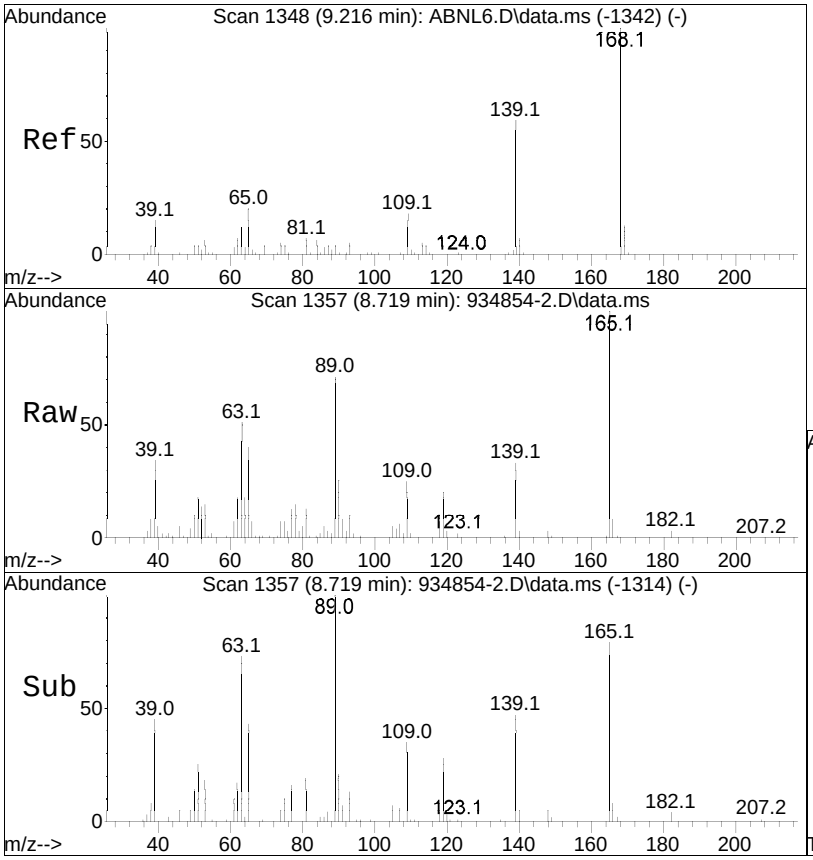


#67
2,4-Dinitrotoluene
Concen: 1.55 ug/ml
RT: 8.713 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:165 Resp: 27743

Ion	Ratio	Lower	Upper
165	100		
89	81.9	72.0	108.0
63	58.5	52.7	79.1

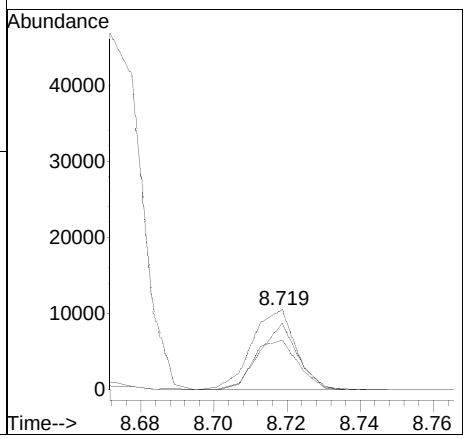


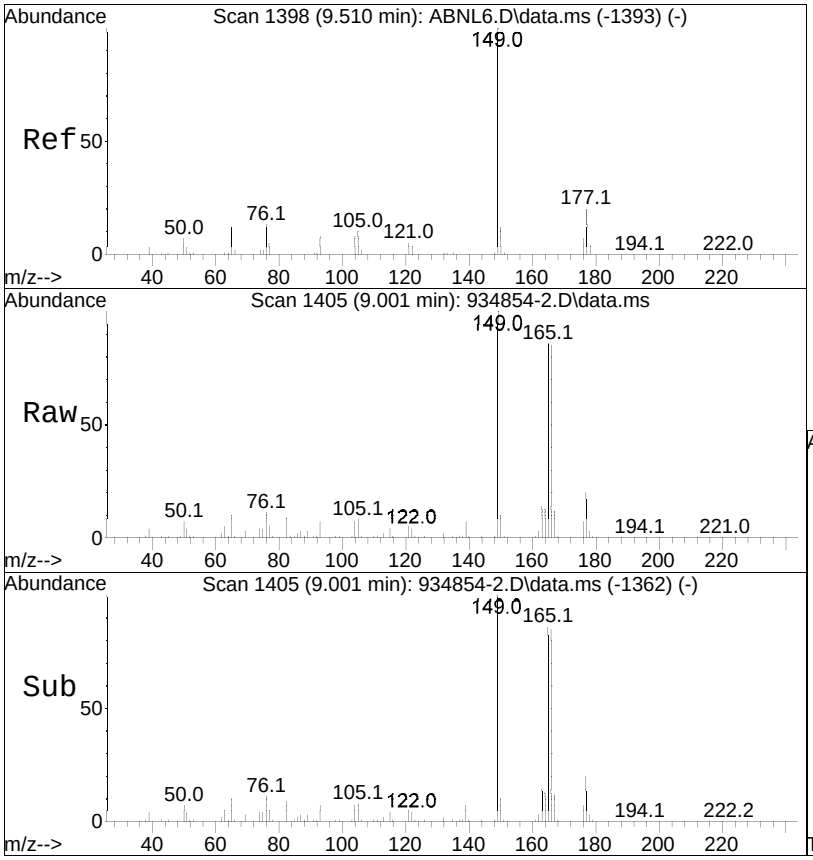


#68
4-Nitrophenol
Concen: 0.63 ug/ml
RT: 8.719 min Scan# 1357
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion: 65 Resp: 8880

Ion	Ratio	Lower	Upper
65	100		
109	62.1	47.4	71.2
139	72.2	76.6	115.0#

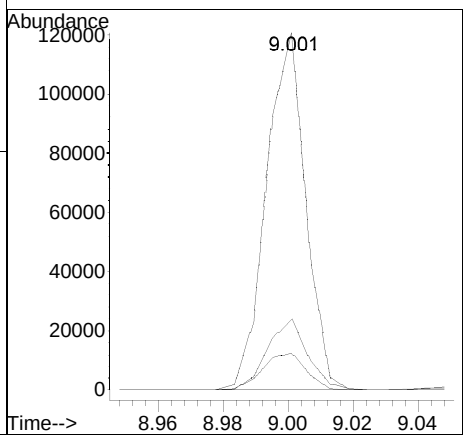


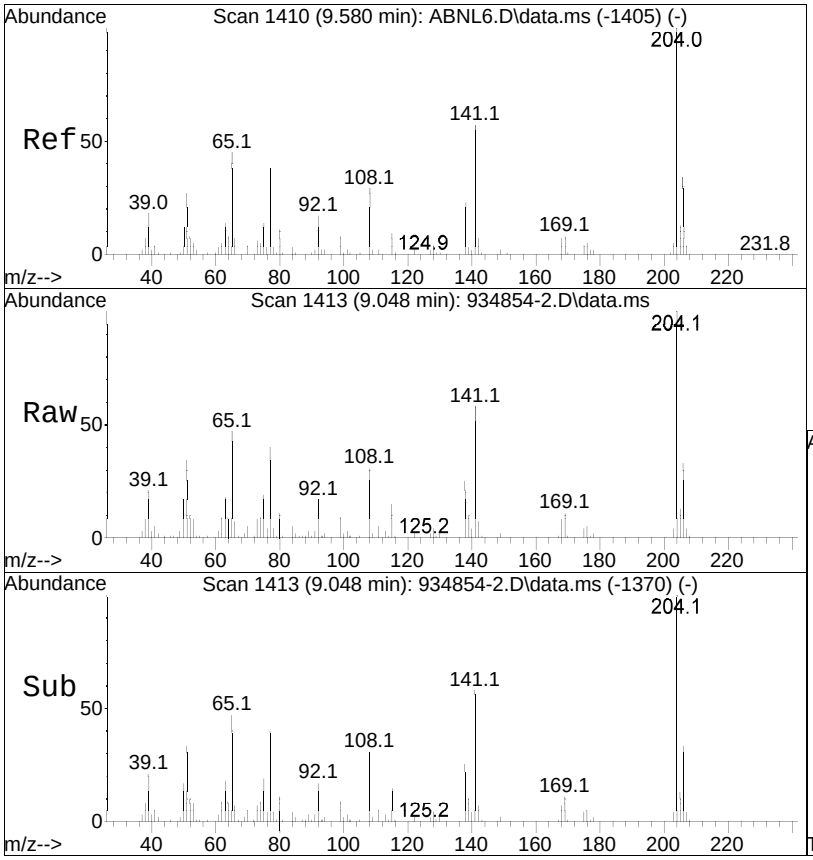


#71
Diethyl phthalate
Concen: 1.55 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:149 Resp: 100934

Ion	Ratio	Lower	Upper
149	100		
177	20.3	16.1	24.1
150	11.4	9.4	14.2

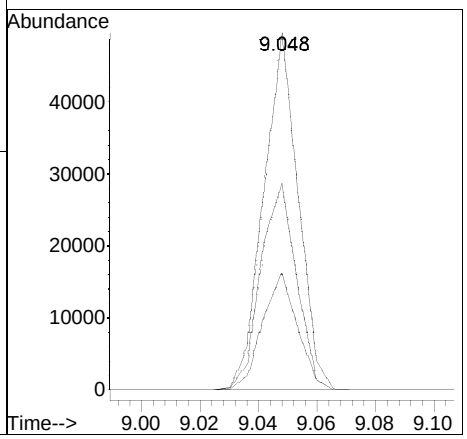


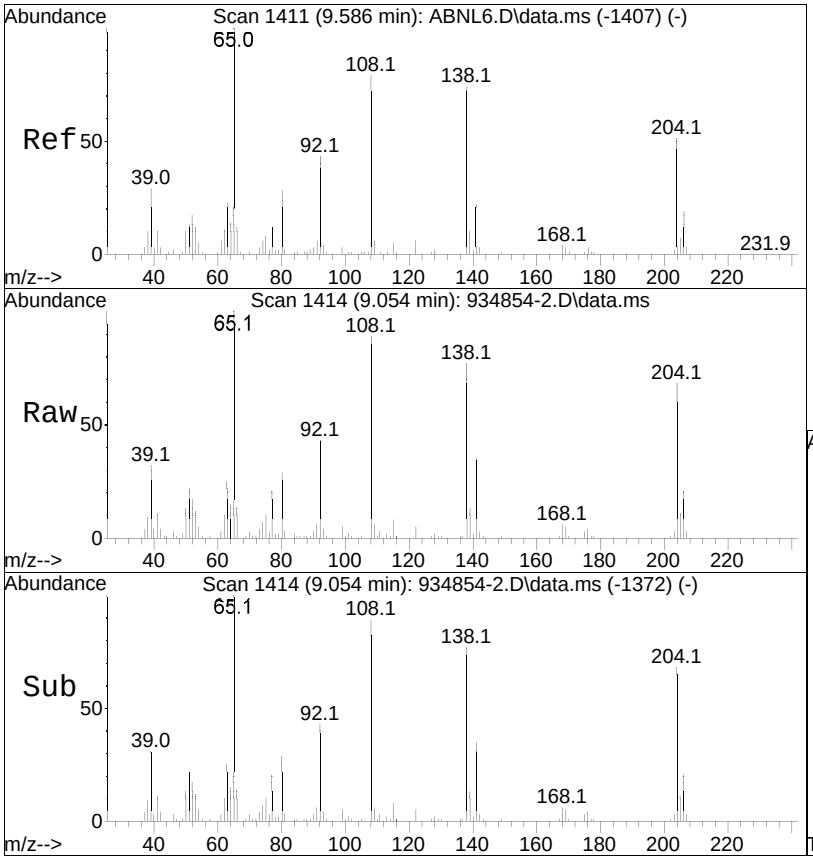


#73
4-Chlorophenyl phenyl ether
Concen: 1.25 ug/ml
RT: 9.048 min Scan# 1413
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:204 Resp: 40300

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.6
141	59.7	53.6	80.4

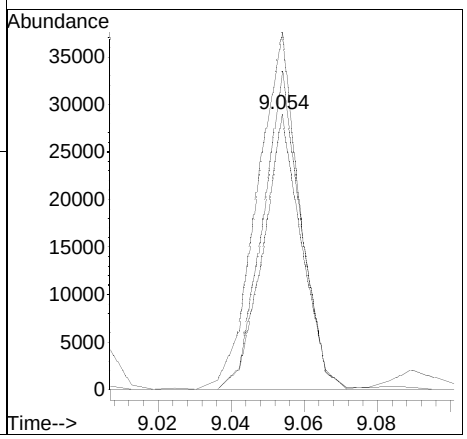


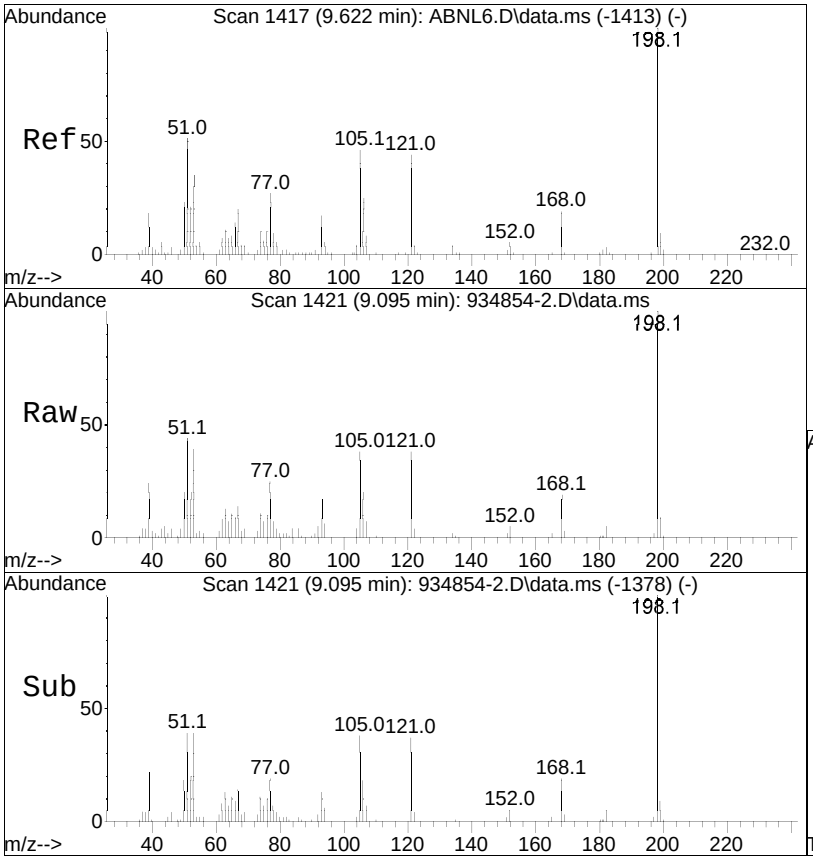


#74
4-Nitroaniline
Concen: 1.63 ug/ml
RT: 9.054 min Scan# 1414
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:138 Resp: 21060

Ion	Ratio	Lower	Upper
138	100		
108	115.3	52.1	78.1#
65	143.0	115.0	172.6

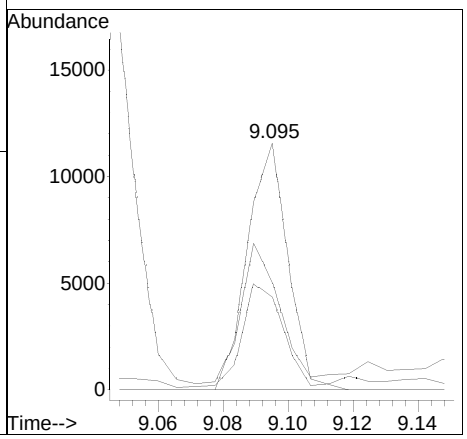


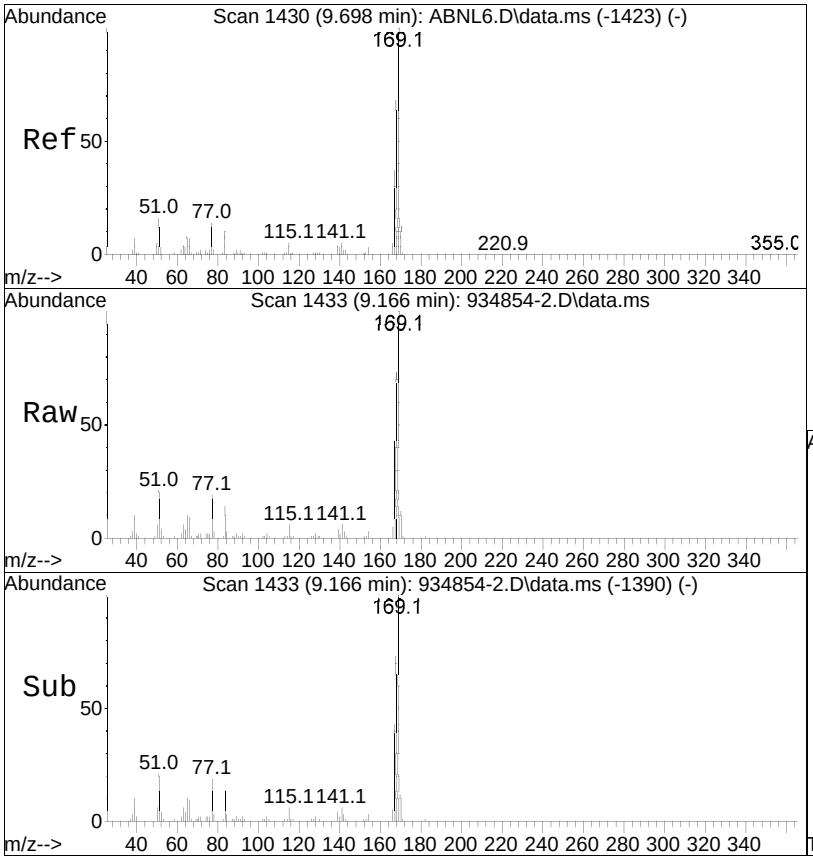


#75
4,6-Dinitro-o-cresol
Concen: 0.99 ug/ml
RT: 9.095 min Scan# 1421
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:198 Resp: 9974

Ion	Ratio	Lower	Upper
198	100		
51	57.8	76.0	114.0#
105	42.5	45.6	68.4#

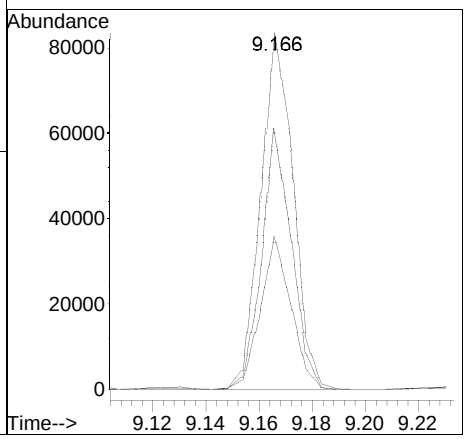


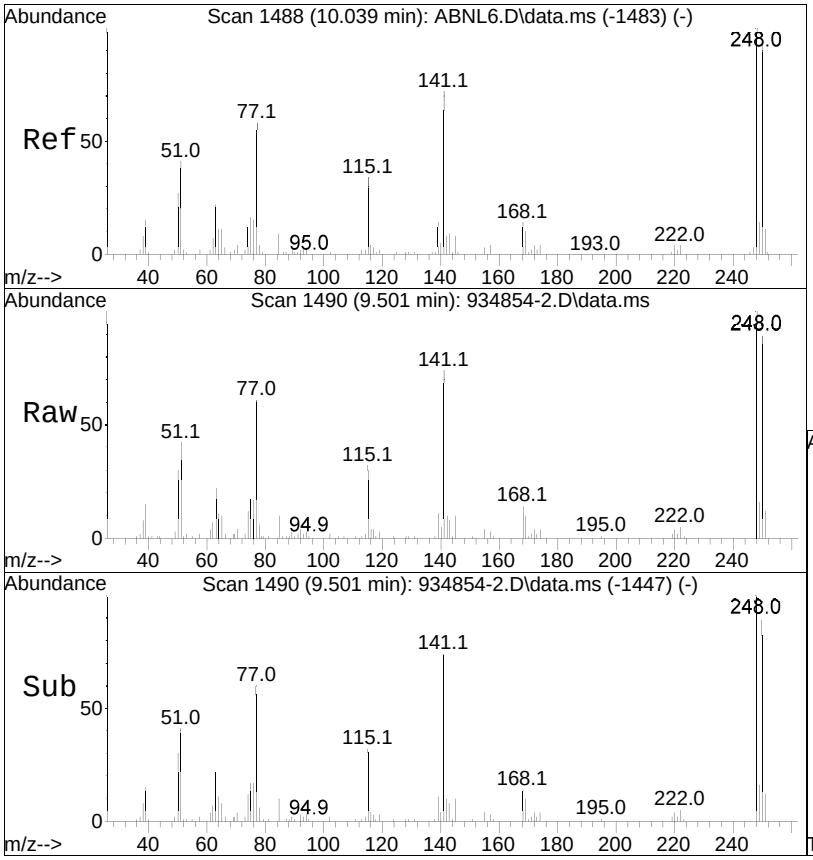


#76
NDPA/DPA
Concen: 1.40 ug/ml
RT: 9.166 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:169 Resp: 70543

Ion	Ratio	Lower	Upper
169	100		
168	67.2	54.0	81.0
167	40.6	28.6	42.8

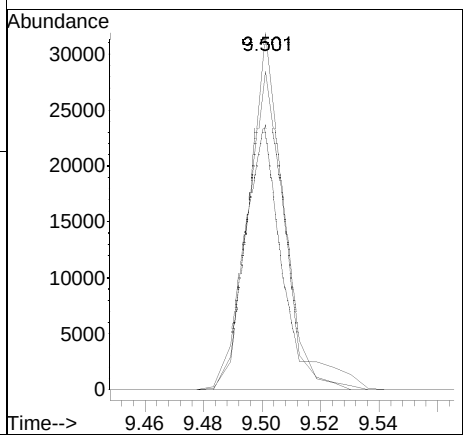


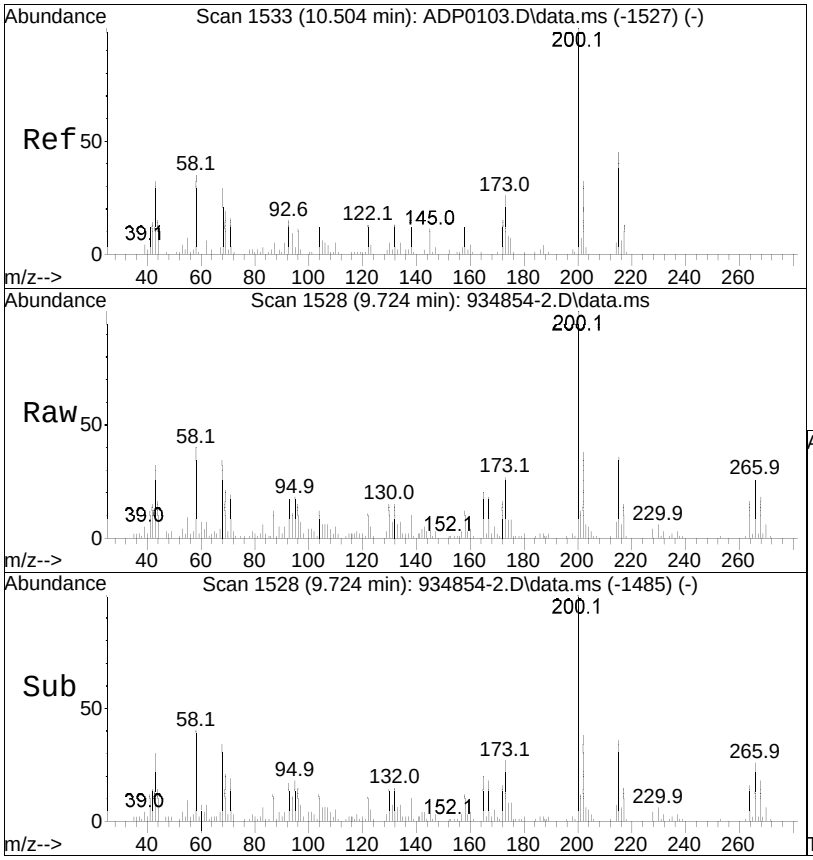


#79
4-Bromophenyl phenyl ether
Concen: 1.35 ug/ml
RT: 9.501 min Scan# 1490
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:248 Resp: 25901

Ion	Ratio	Lower	Upper
248	100		
141	85.3	76.6	114.8
250	93.5	77.3	115.9

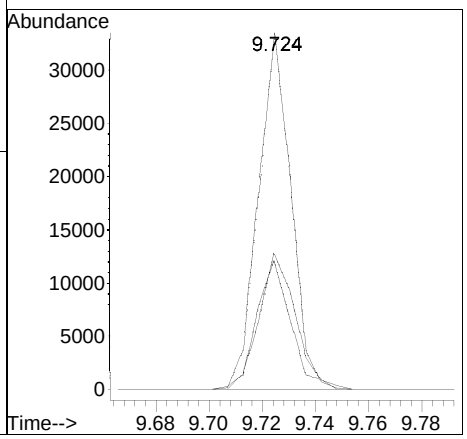


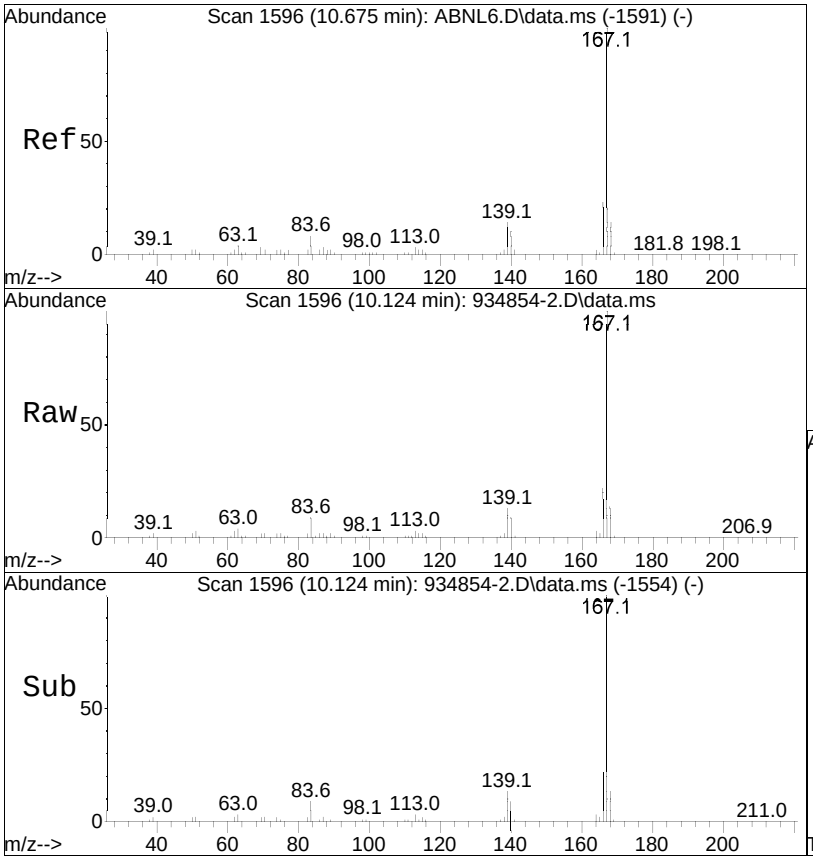


#86
Atrazine
Concen: 1.56 ug/ml
RT: 9.724 min Scan# 1528
Delta R.T. -0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:200 Resp: 28241

Ion	Ratio	Lower	Upper
200	100		
202	42.6	25.8	38.6#
215	38.5	40.2	60.4#

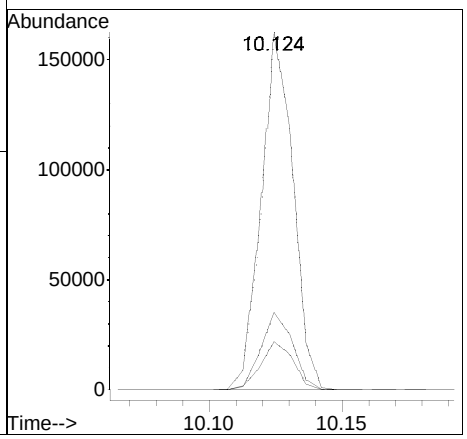


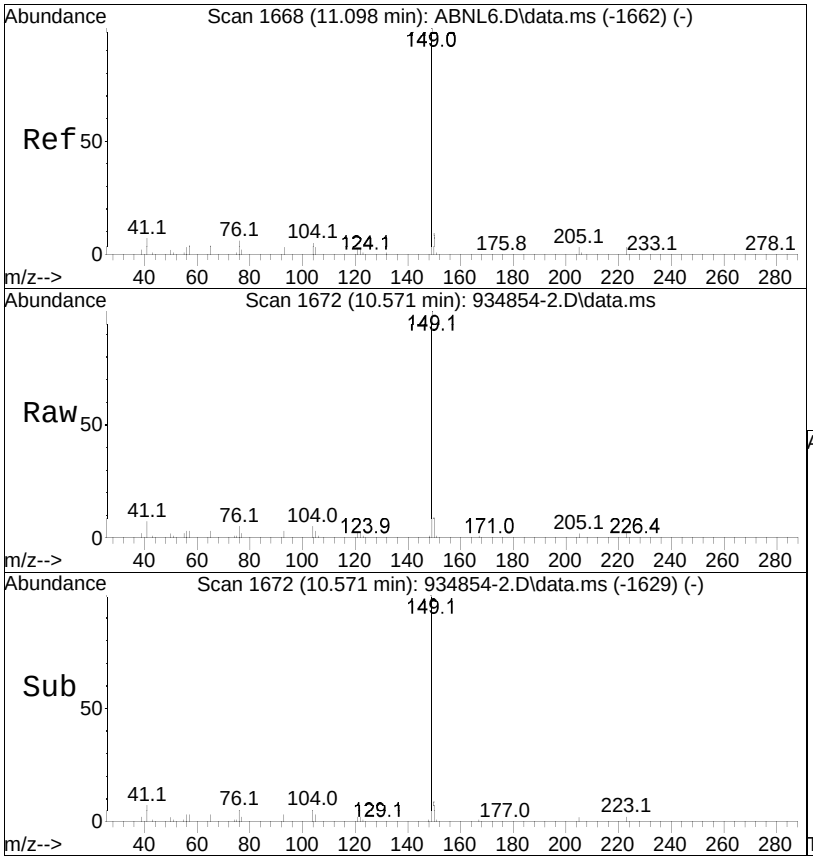


#90
Carbazole
Concen: 1.57 ug/ml
RT: 10.124 min Scan# 1596
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:167 Resp: 133371

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	21.9	17.4	26.0

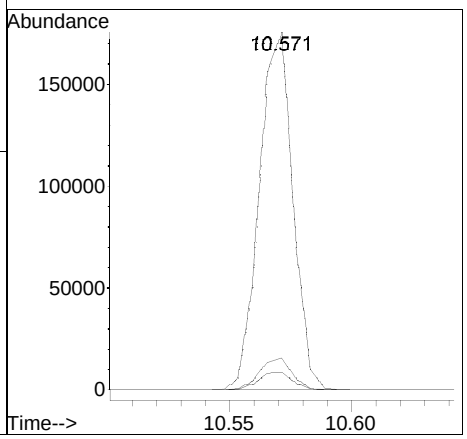


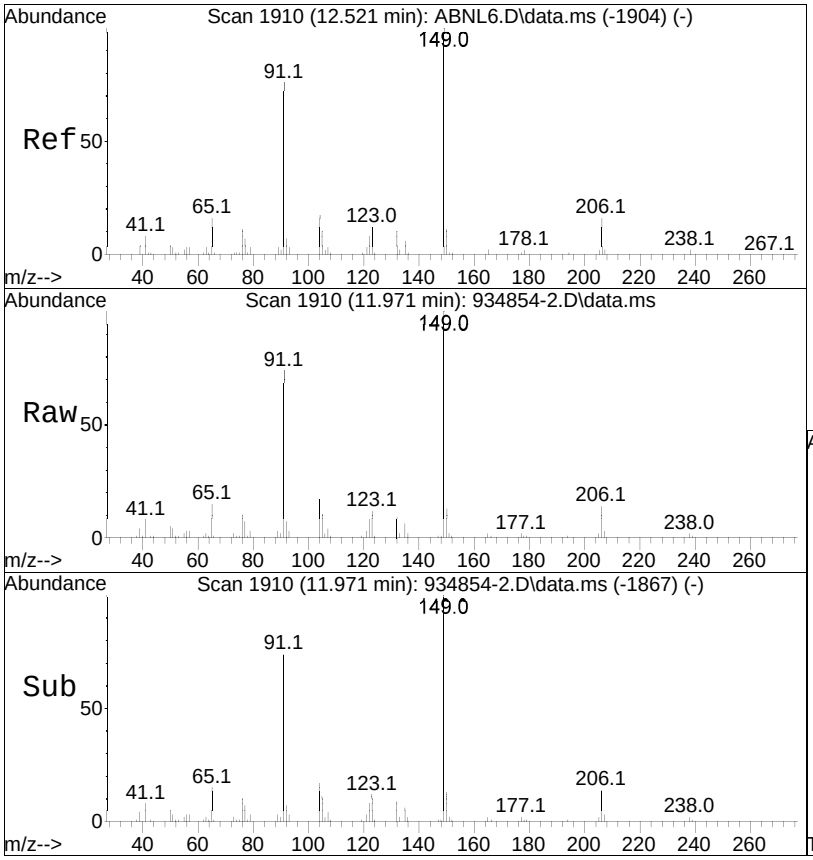


#91
Di-n-butylphthalate
Concen: 1.60 ug/ml
RT: 10.571 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:149 Resp: 165653

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.0	10.6
104	5.1	4.5	6.7

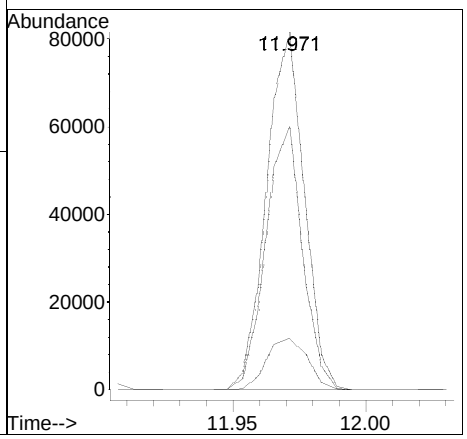


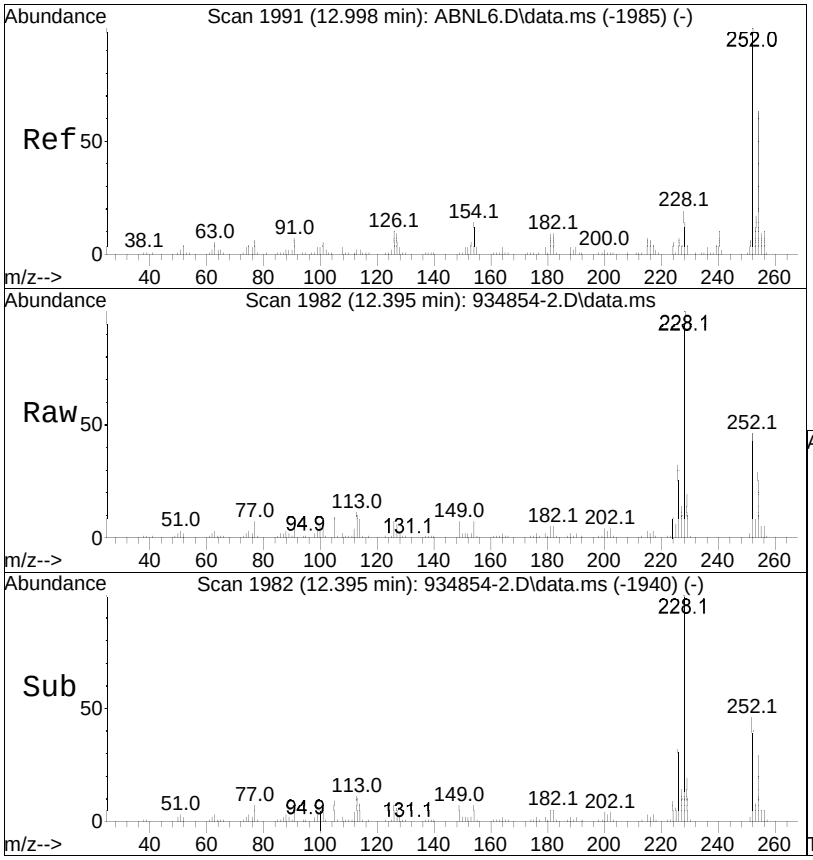


#96
Butyl benzyl phthalate
Concen: 1.80 ug/ml
RT: 11.971 min Scan# 1910
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:149 Resp: 79460

Ion	Ratio	Lower	Upper
149	100		
91	72.0	63.3	94.9
206	15.9	13.9	20.9

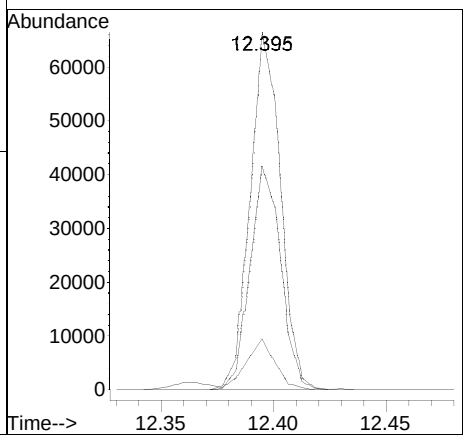


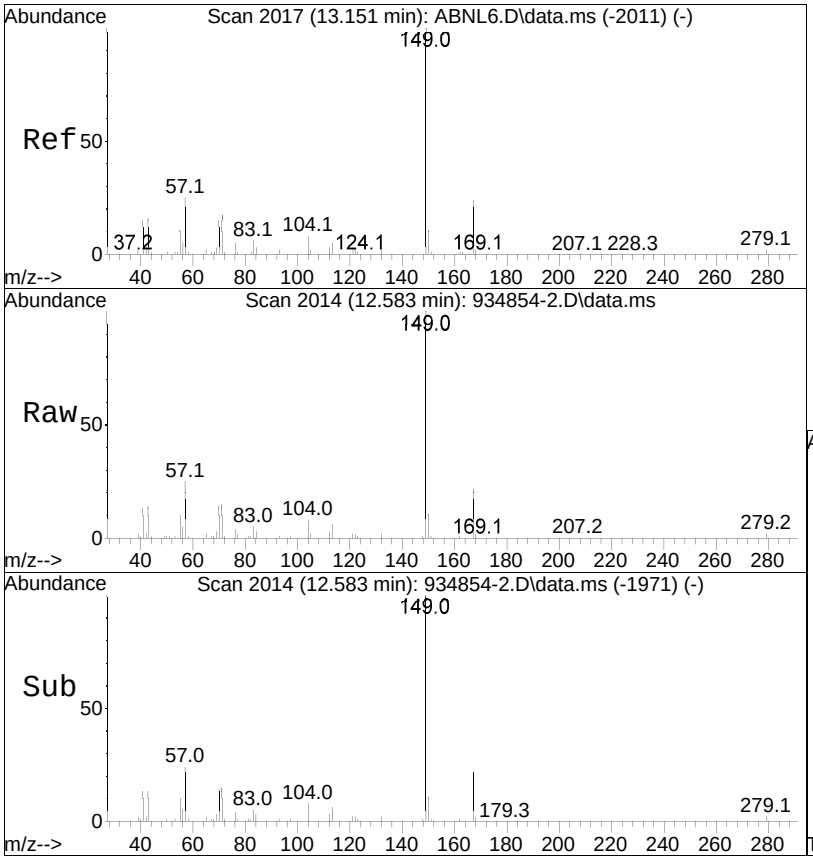


#105
3,3'-Dichlorobenzidine
Concen: 1.61 ug/ml
RT: 12.395 min Scan# 1982
Delta R.T. -0.006 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:252 Resp: 61877

Ion	Ratio	Lower	Upper
252	100		
126	13.6	14.5	21.7#
254	63.3	51.2	76.8

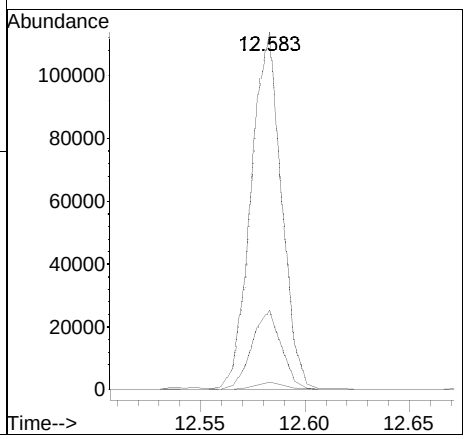


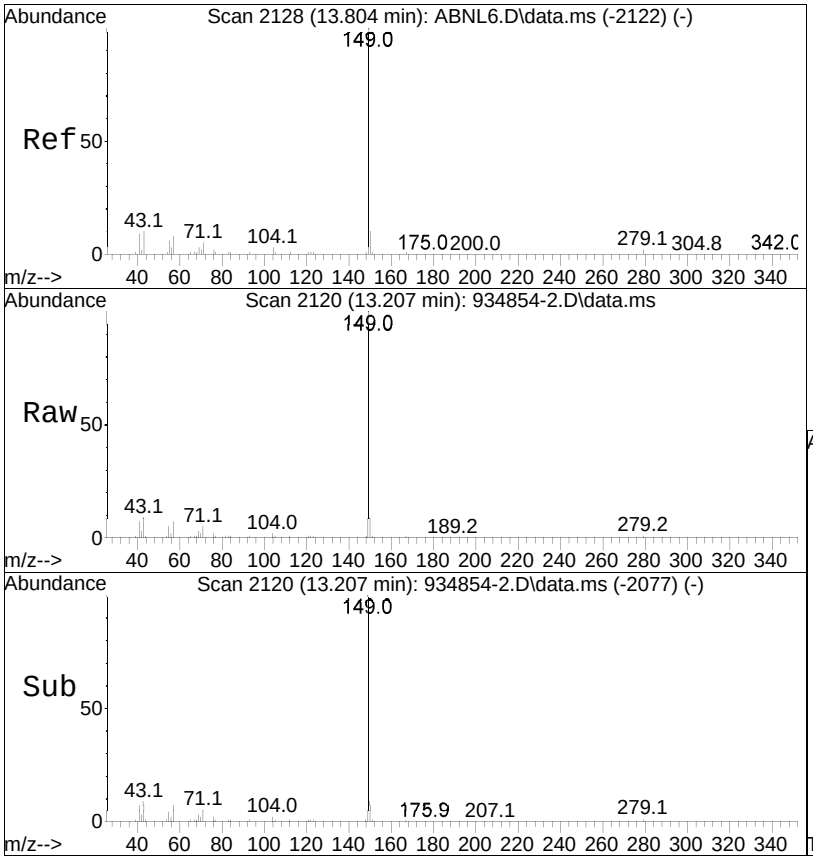


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.73 ug/ml
RT: 12.583 min Scan# 2014
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:149 Resp: 114233

Ion	Ratio	Lower	Upper
149	100		
167	21.5	22.1	33.1#
279	1.8	3.0	4.4#

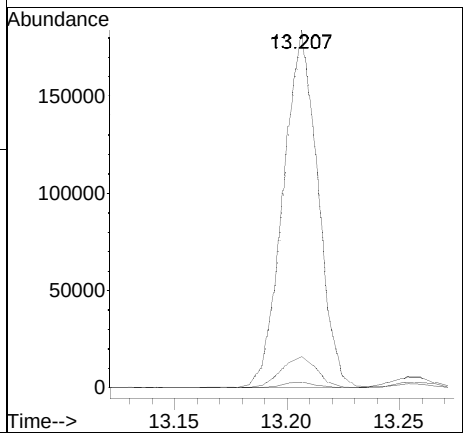




#108
Di-n-octylphthalate
Concen: 1.80 ug/ml
RT: 13.207 min Scan# 2120
Delta R.T. 0.000 min
Lab File: 934854-2.D
Acq: 16 Jun 2024 3:54 pm

Tgt Ion:149 Resp: 194606

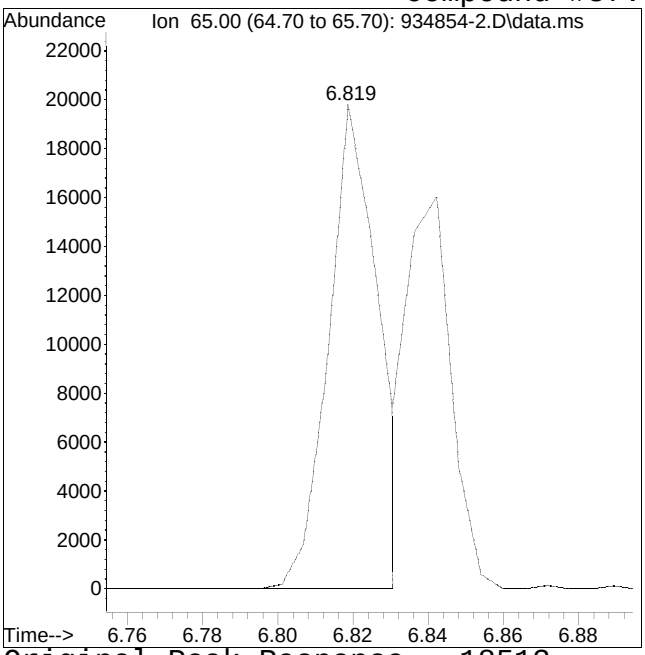
Ion	Ratio	Lower	Upper
149	100		
43	9.4	18.8	28.2#
167	1.5	1.3	1.9

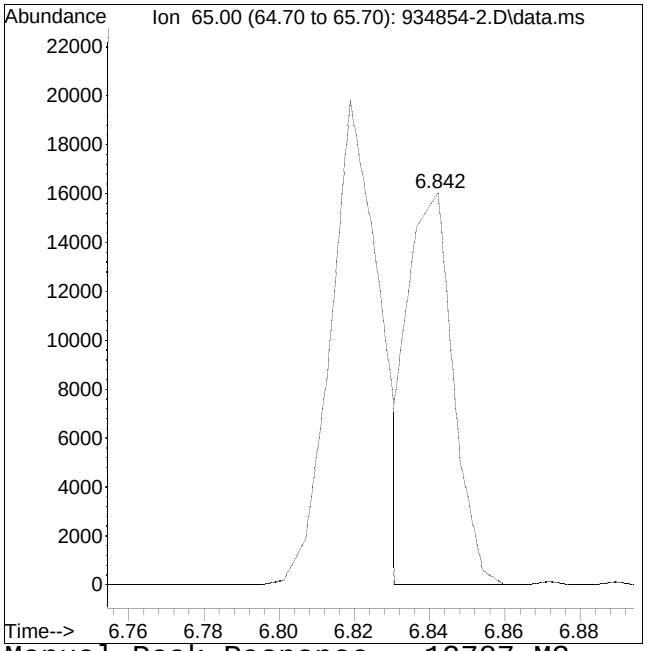


Manual Integration Report

Data Path : I:\8270\SV106\240616aRVT\ QMethod : FS240418SV106.m
Data File : 934854-2.D Operator : SV106:sz
Date Inj'd : 6/16/2024 3:54 pm Instrument : SV 106
Sample : WG1934854-2,32,,cmm Quant Date : 6/17/2024 8:25 am

Compound #37: 4-Chloroaniline





Original Peak Response = 18513 Manual Peak Response = 12787 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-2.D
Acq On : 19 Jun 2024 10:26 am
Operator : SV106:sz
Sample : WG1935741-2,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 13:50:40 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.860	152	57771	4.000	ug/ml	0.00
Standard Area 1 = 59427			Recovery = 97.21%			
27) IS2_1,4-Dichlorobenzen...	4.860	152	57771	4.000	ug/ml	0.00
Standard Area 3 = 60712			Recovery = 95.16%			
32) IS3_1,4-Dichlorobenzen...	4.860	152	57771	4.000	ug/ml	0.00
Standard Area 2 = 62958			Recovery = 91.76%			
34) IS1_Naphthalene-d8	6.613	136	215794	4.000	ug/ml	0.00
Standard Area 1 = 210492			Recovery = 102.52%			
54) IS2_Naphthalene-d8	6.613	136	215794	4.000	ug/ml	0.00
Standard Area 3 = 221960			Recovery = 97.22%			
62) IS1_Acenaphthene-d10	8.407	164	138731	4.000	ug/ml	0.00
Standard Area 1 = 134114			Recovery = 103.44%			
82) IS2_Acenaphthene-d10	8.407	164	138731	4.000	ug/ml	0.00
Standard Area 3 = 147055			Recovery = 94.34%			
85) IS3_Acenaphthene-d10	8.407	164	138731	4.000	ug/ml	0.00
Standard Area 2 = 148414			Recovery = 93.48%			
87) IS1_Phenanthrene-d10	9.801	188	297159	4.000	ug/ml	0.00
Standard Area 1 = 283169			Recovery = 104.94%			
99) IS3_Phenanthrene-d10	9.801	188	297159	4.000	ug/ml	0.00
Standard Area 2 = 314363			Recovery = 94.53%			
103) IS1_Chrysene-d12	12.289	240	273568	4.000	ug/ml	0.00
Standard Area 1 = 267660			Recovery = 102.21%			
112) IS1_Perylene-d12	13.612	264	319306	4.000	ug/ml	0.00
Standard Area 1 = 323400			Recovery = 98.73%			
System Monitoring Compounds						
4) 2-Fluorophenol	1.996	112	16062	0.983	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 49.15%			
7) Phenol-d6	4.407	99	20623	0.977	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.85%			
19) Nitrobenzene-d5	5.772	82	14349	0.635	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.50%			
45) 2-Fluorobiphenyl	7.807	172	38706	0.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 77.40%			
78) 2,4,6-Tribromophenol	9.160	330	14785	2.003	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 100.15%			

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-2.D
Acq On : 19 Jun 2024 10:26 am
Operator : SV106:sz
Sample : WG1935741-2,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 13:50:40 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.366	244	56055	0.876	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 87.60%

Target Compounds					Qvalue
6) 2-Chlorophenol	4.431	128	27728	1.561 ug/ml#	81
8) Phenol	4.442	94	20029	0.891 ug/ml#	74
14) Bis(2-chloroisopropyl)...	5.489	45	20194	0.770 ug/ml#	54
15) 2-Methylphenol	5.525	108	22496	1.406 ug/ml	96
17) n-Nitrosodi-n-propylamine	5.678	70	18169	1.216 ug/ml	96
18) 3-Methylphenol/4-Methy...	5.766	108	25792	1.483 ug/ml	99
20) Nitrobenzene	5.795	77	35244	1.621 ug/ml	89
21) Isophorone	6.142	82	50192	1.302 ug/ml#	98
22) 2-Nitrophenol	6.213	139	15080	1.678 ug/ml#	82
23) 2,4-Dimethylphenol	6.401	107	19847	1.090 ug/ml	94
24) Bis(2-chloroethoxy)met...	6.489	93	30198	1.248 ug/ml	98
25) 2,4-Dichlorophenol	6.525	162	28022	1.688 ug/ml#	94
28) Benzaldehyde	3.707	105	22651	1.432 ug/ml	82
29) Acetophenone	5.589	105	41320	1.444 ug/ml#	79
37) 4-Chloroaniline	6.772	65	6263M3	0.726 ug/ml	
39) p-Chloro-m-cresol	7.366	107	28005	1.588 ug/ml	95
42) Hexachlorocyclopentadiene	7.589	237	14803	1.005 ug/ml	95
43) 2,4,6-Trichlorophenol	7.719	196	21176	1.478 ug/ml	96
44) 2,4,5-Trichlorophenol	7.748	196	27217	1.744 ug/ml	95
47) 2-Nitroaniline	8.013	138	22076	1.902 ug/ml#	79
50) Dimethyl phthalate	8.242	163	90628	1.711 ug/ml#	98
52) 2,6-Dinitrotoluene	8.272	165	19565	1.839 ug/ml	92
59) Caprolactam	7.107	55	4308	0.454 ug/ml#	37
60) 1,2,4,5-Tetrachloroben...	7.578	216	30975	1.247 ug/ml	98
61) Biphenyl	7.889	154	71003	1.461 ug/ml	98
63) 3-Nitroaniline	8.413	138	18687	1.840 ug/ml#	89
65) 2,4-Dinitrophenol	8.519	184	3752	0.884 ug/ml	91
66) Dibenzofuran	8.607	168	93217	1.550 ug/ml	93
67) 2,4-Dinitrotoluene	8.648	165	26954	1.951 ug/ml#	77
68) 4-Nitrophenol	8.654	65	6543	0.600 ug/ml#	83
71) Diethyl phthalate	8.936	149	91525	1.829 ug/ml	97
73) 4-Chlorophenyl phenyl ...	8.983	204	38731	1.558 ug/ml#	88
74) 4-Nitroaniline	8.989	138	19036	1.914 ug/ml#	72

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-2.D
Acq On : 19 Jun 2024 10:26 am
Operator : SV106:sz
Sample : WG1935741-2,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 13:50:40 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.025	198	9040	1.161	ug/ml#	60
76)	NDPA/DPA	9.101	169	70418	1.809	ug/ml	99
79)	4-Bromophenyl phenyl e...	9.436	248	25227	1.703	ug/ml#	85
86)	Atrazine	9.660	200	27699	1.982	ug/ml	88
90)	Carbazole	10.054	167	125755	1.894	ug/ml	99
91)	Di-n-butylphthalate	10.501	149	161567	1.996	ug/ml	99
96)	Butyl benzyl phthalate	11.895	149	74661	2.169	ug/ml#	82
105)	3,3'-Dichlorobenzidine	12.318	252	61993	2.034	ug/ml#	94
107)	Bis(2-ethylhexyl)phtha...	12.507	149	112304	2.140	ug/ml#	94
108)	Di-n-octylphthalate	13.124	149	202247	2.353	ug/ml#	68

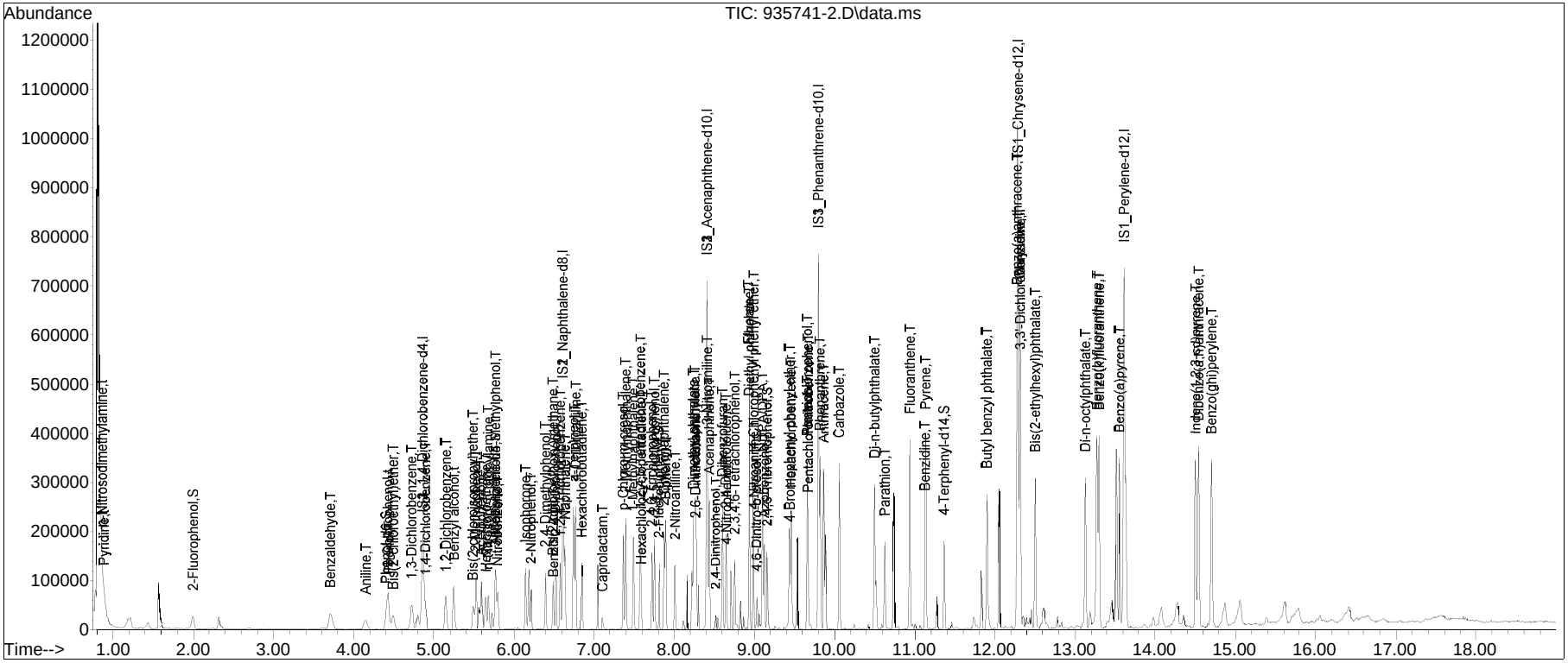
(#) = qualifier out of range (m) = manual integration (+) = signals summed

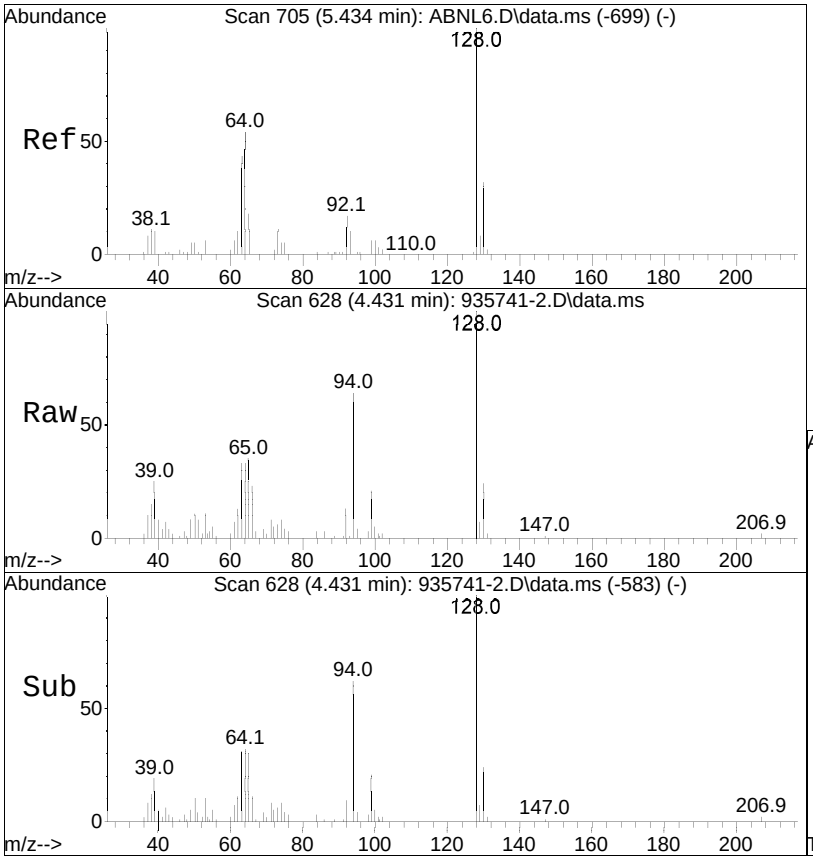
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-2.D
Acq On : 19 Jun 2024 10:26 am
Operator : SV106:sz
Sample : WG1935741-2,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 13:50:40 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:45:34 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90619.D••

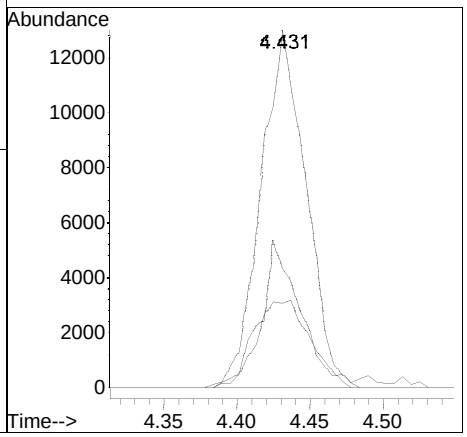


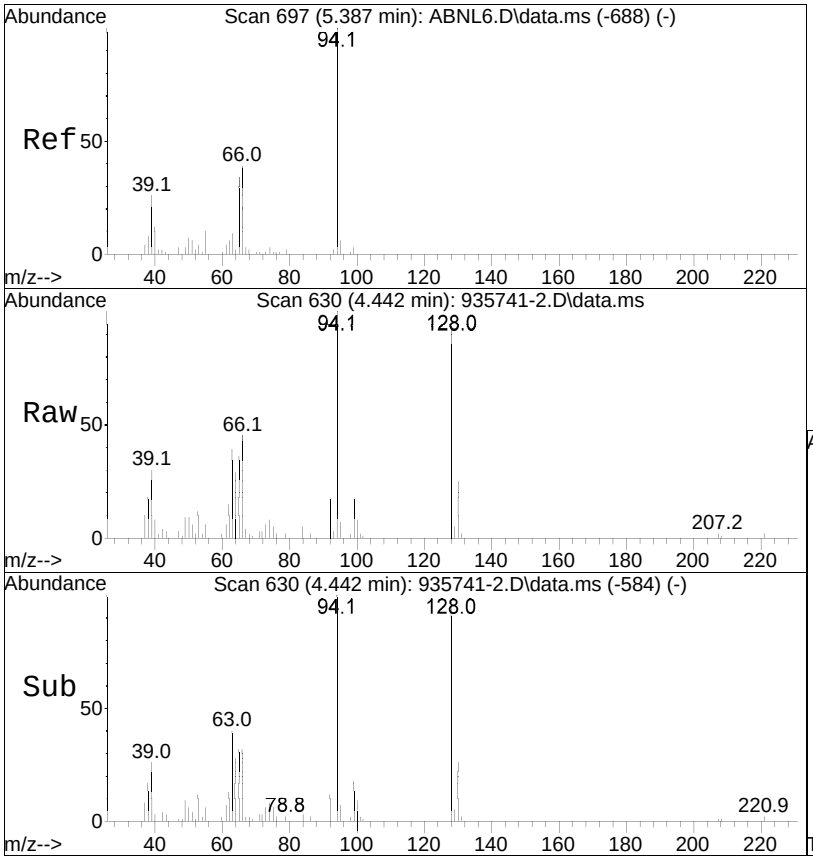


#6
2-Chlorophenol
Concen: 1.56 ug/ml
RT: 4.431 min Scan# 628
Delta R.T. 0.012 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:128 Resp: 27728

Ion	Ratio	Lower	Upper
128	100		
64	37.2	45.1	67.7#
130	29.2	26.2	39.4

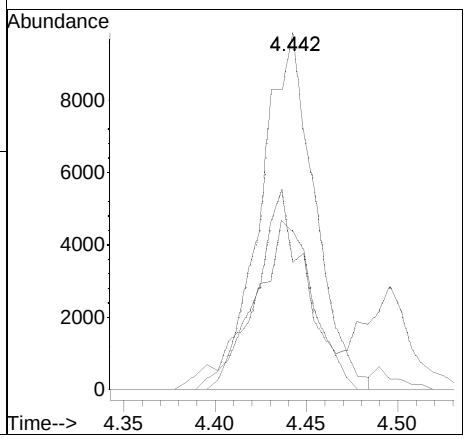


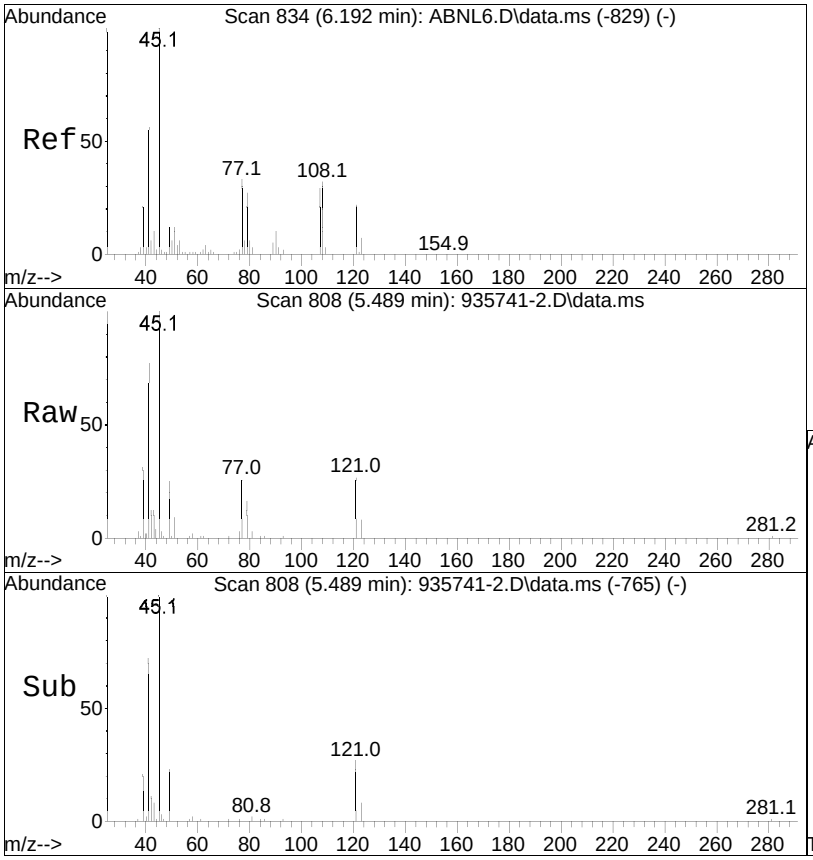


#8
Phenol
Concen: 0.89 ug/ml
RT: 4.442 min Scan# 630
Delta R.T. 0.018 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 94 Resp: 20029

Ion	Ratio	Lower	Upper
94	100		
65	53.7	26.0	39.0#
66	52.7	33.8	50.8#

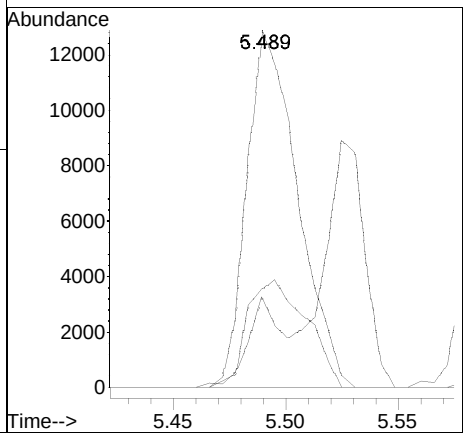


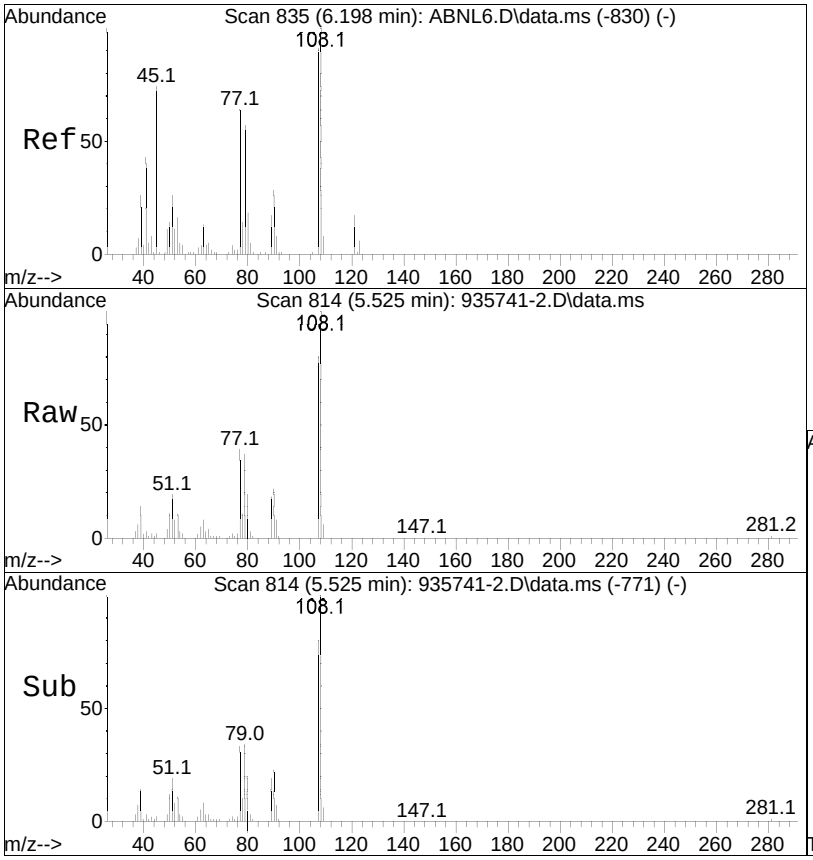


#14
Bis(2-chloroisopropyl)ether
Concen: 0.77 ug/ml
RT: 5.489 min Scan# 808
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 45 Resp: 20194

Ion	Ratio	Lower	Upper
45	100		
121	35.0	9.8	14.6#
77	17.1	6.1	9.1#

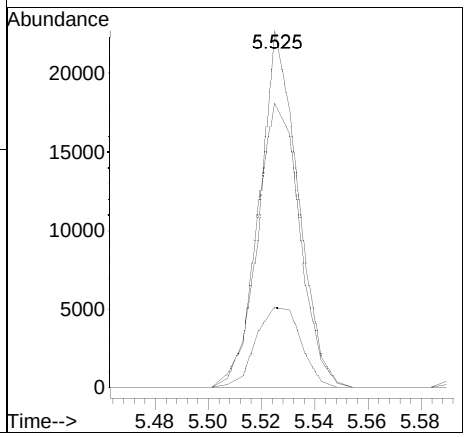


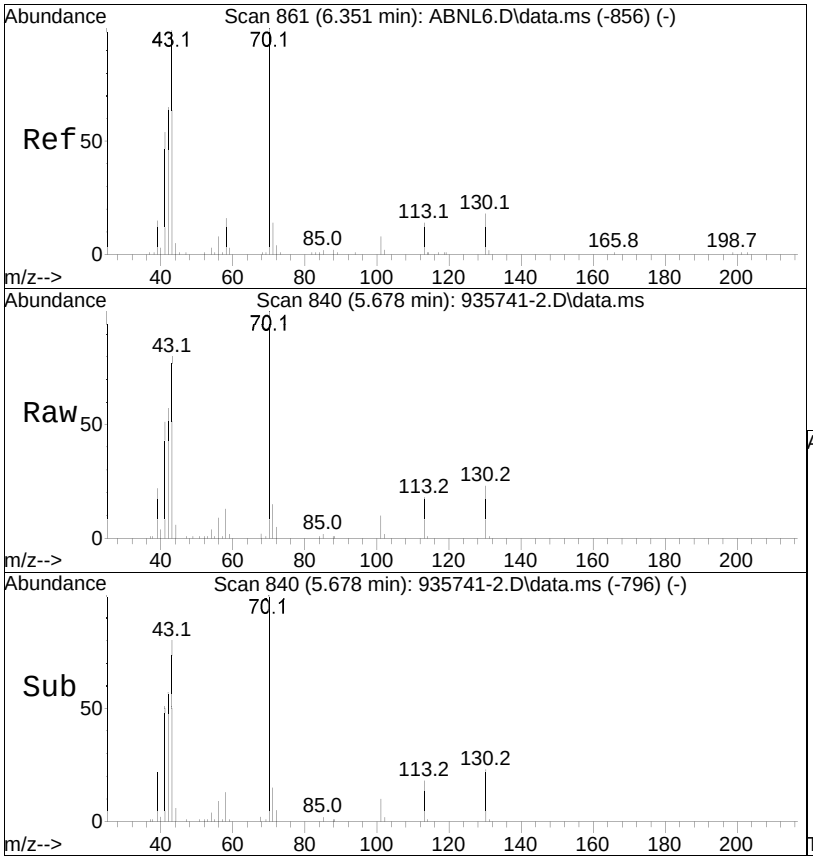


#15
2-Methylphenol
Concen: 1.41 ug/ml
RT: 5.525 min Scan# 814
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:108 Resp: 22496

Ion	Ratio	Lower	Upper
108	100		
107	90.9	70.7	106.1
90	26.8	18.7	28.1

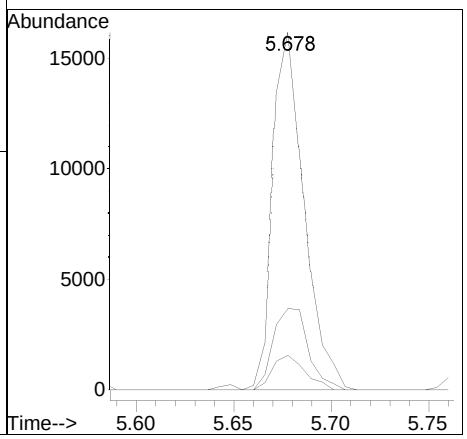


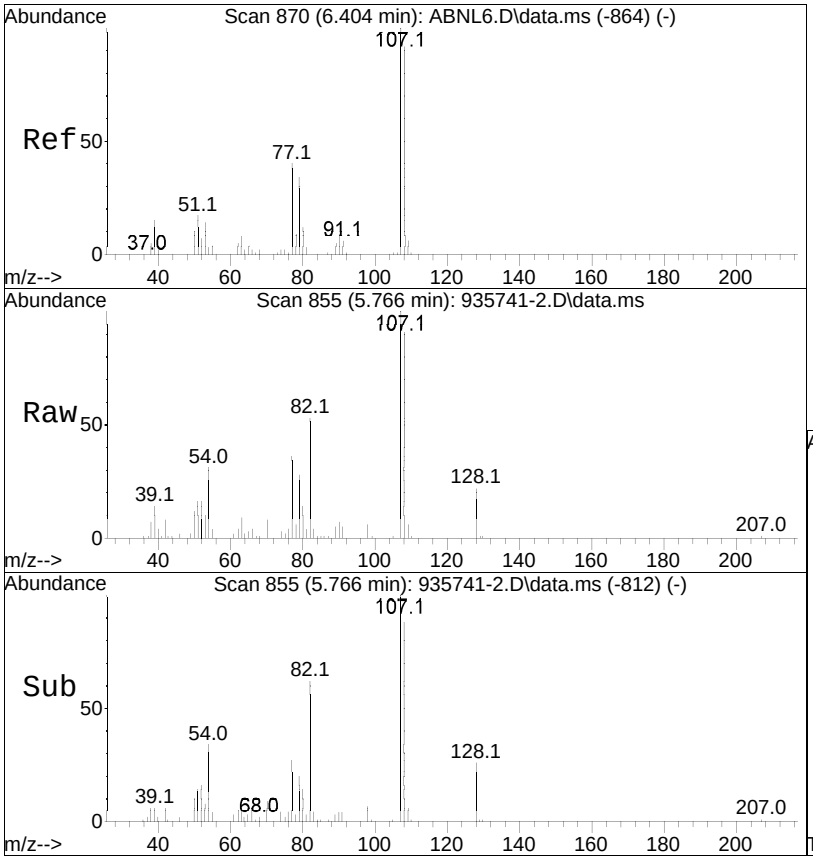


#17
n-Nitrosodi-n-propylamine
Concen: 1.22 ug/ml
RT: 5.678 min Scan# 840
Delta R.T. 0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 70 Resp: 18169

Ion	Ratio	Lower	Upper
70	100		
130	25.3	18.2	27.4
101	10.0	7.8	11.8

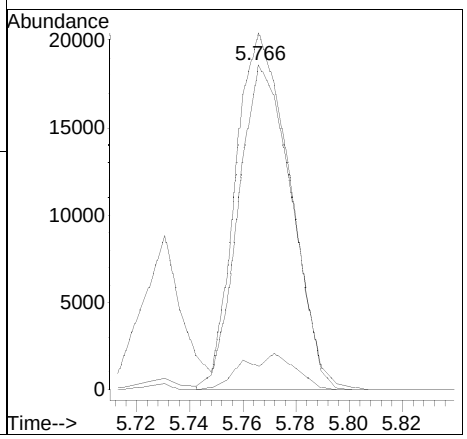


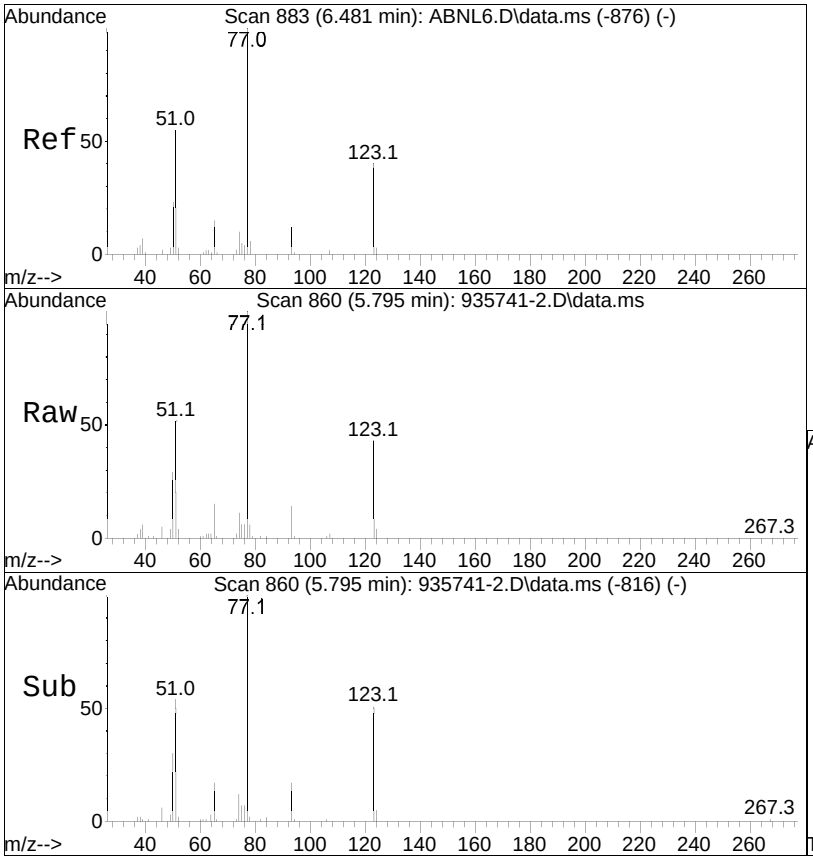


#18
3-Methylphenol/4-Methylphenol
Concen: 1.48 ug/ml
RT: 5.766 min Scan# 855
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:108 Resp: 25792

Ion	Ratio	Lower	Upper
108	100		
107	111.2	88.6	132.8
90	11.3	8.8	13.2

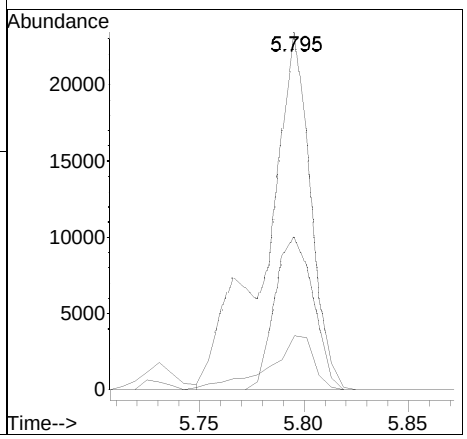


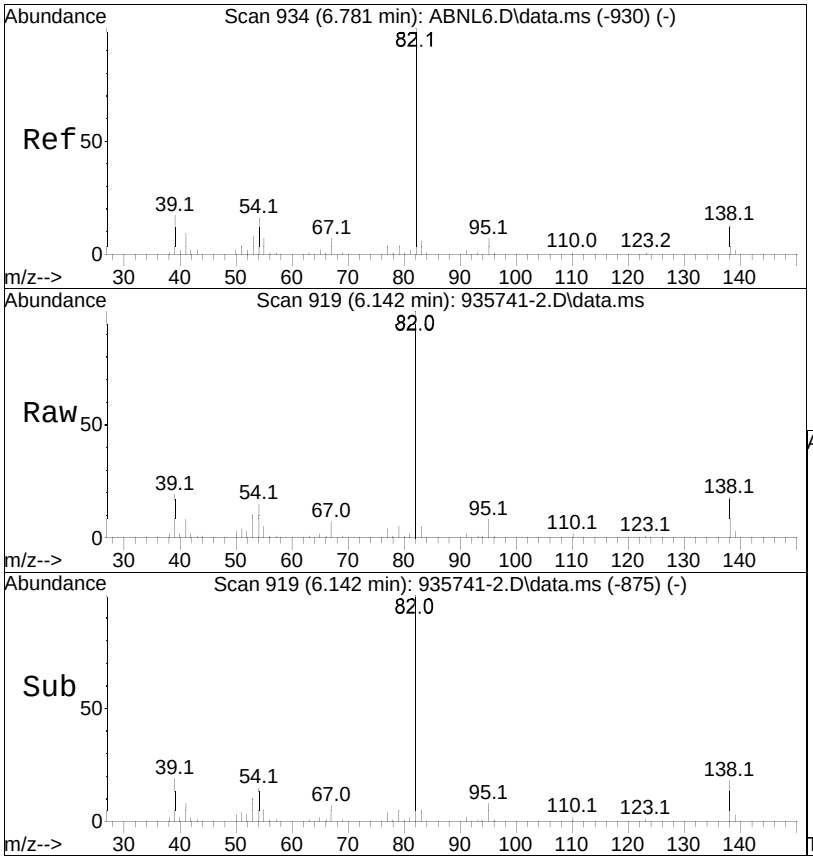


#20
Nitrobenzene
Concen: 1.62 ug/ml
RT: 5.795 min Scan# 860
Delta R.T. 0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 77 Resp: 35244

Ion	Ratio	Lower	Upper
77	100		
123	36.4	36.3	54.5
65	14.9	11.6	17.4

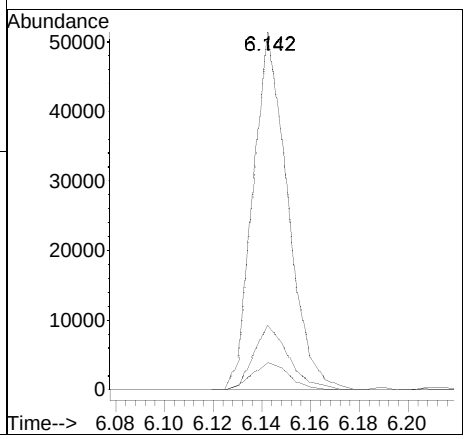


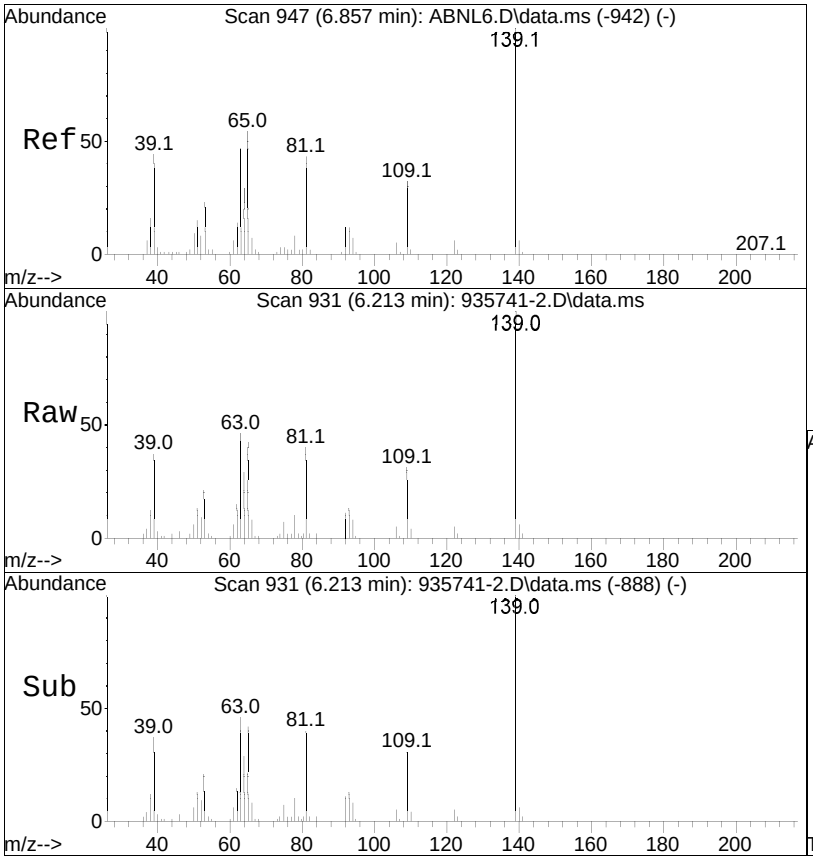


#21
Isophorone
Concen: 1.30 ug/ml
RT: 6.142 min Scan# 919
Delta R.T. 0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 82 Resp: 50192

Ion	Ratio	Lower	Upper
82	100		
138	18.3	14.7	22.1
95	8.3	5.2	7.8#

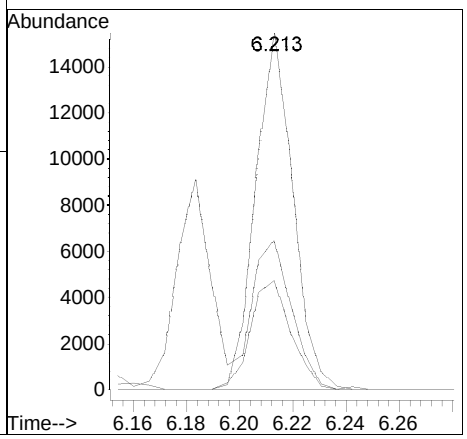


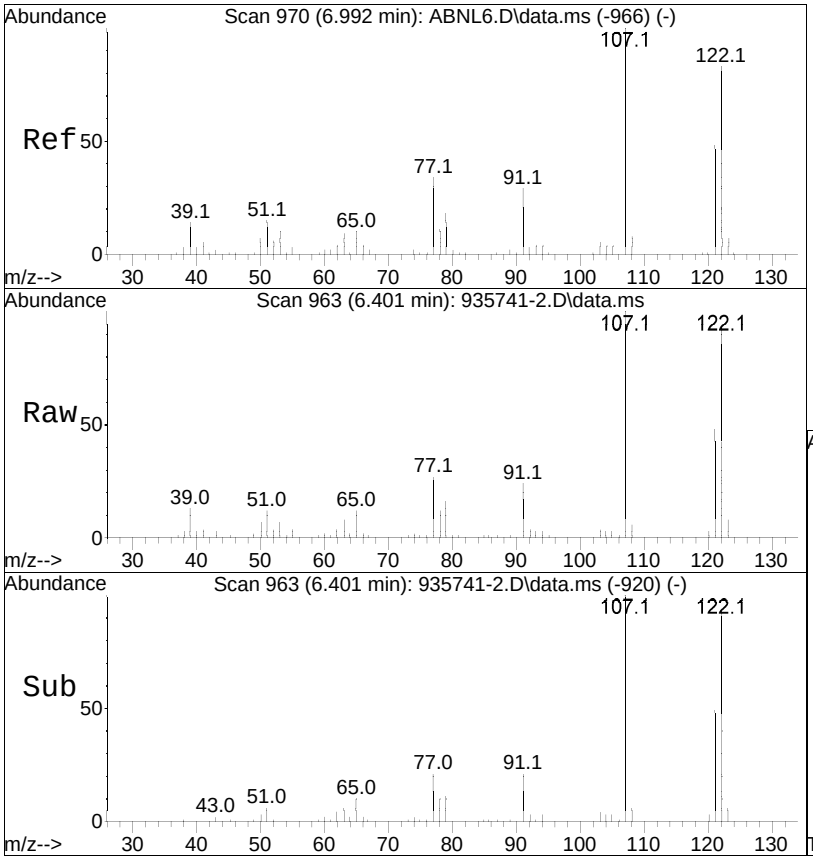


#22
2-Nitrophenol
Concen: 1.68 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:139 Resp: 15080

Ion	Ratio	Lower	Upper
139	100		
109	33.3	19.4	29.0#
65	44.9	46.1	69.1#

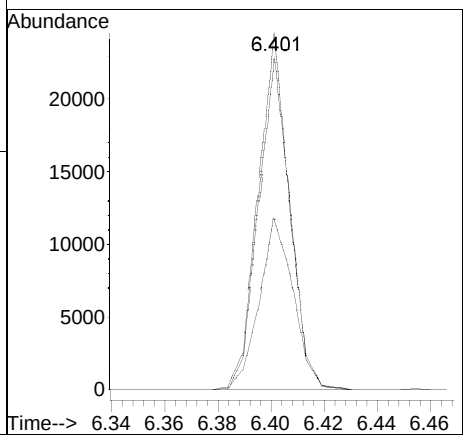


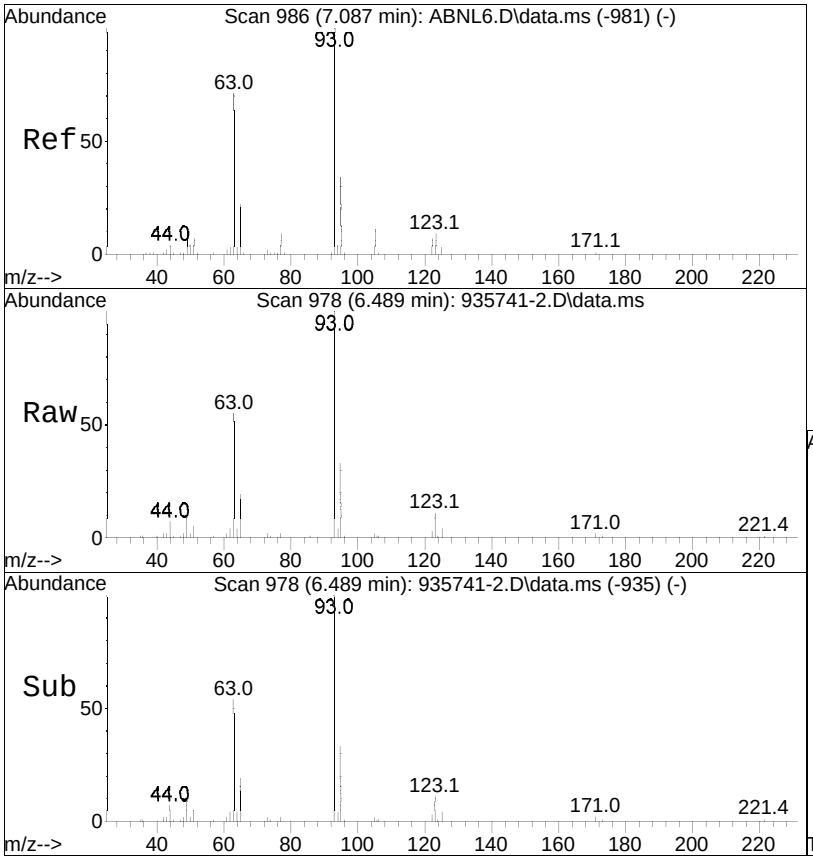


#23
2,4-Dimethylphenol
Concen: 1.09 ug/ml
RT: 6.401 min Scan# 963
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:107 Resp: 19847

Ion	Ratio	Lower	Upper
107	100		
121	53.0	40.0	60.0
122	94.4	70.2	105.4

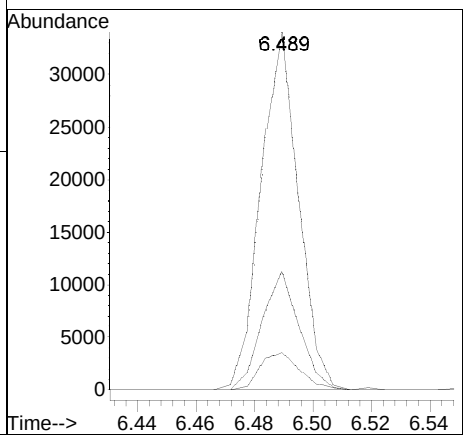


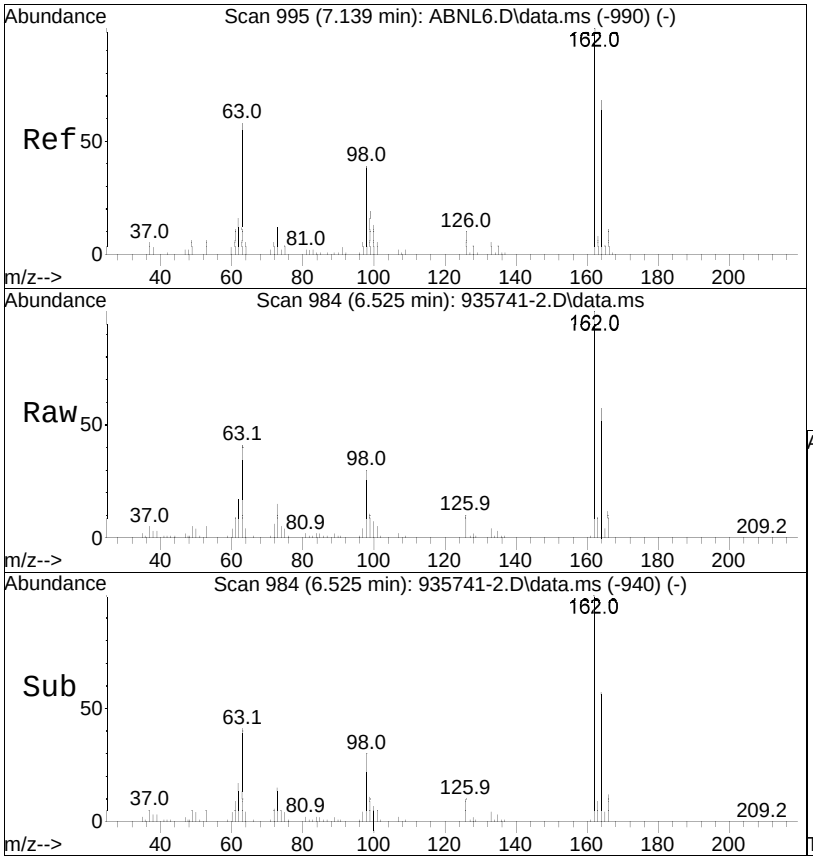


#24
Bis(2-chloroethoxy)methane
Concen: 1.25 ug/ml
RT: 6.489 min Scan# 978
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 93 Resp: 30198

Ion	Ratio	Lower	Upper
93	100		
95	33.1	25.8	38.8
123	11.2	10.1	15.1

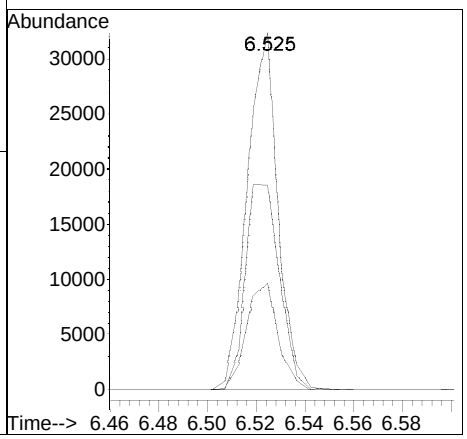


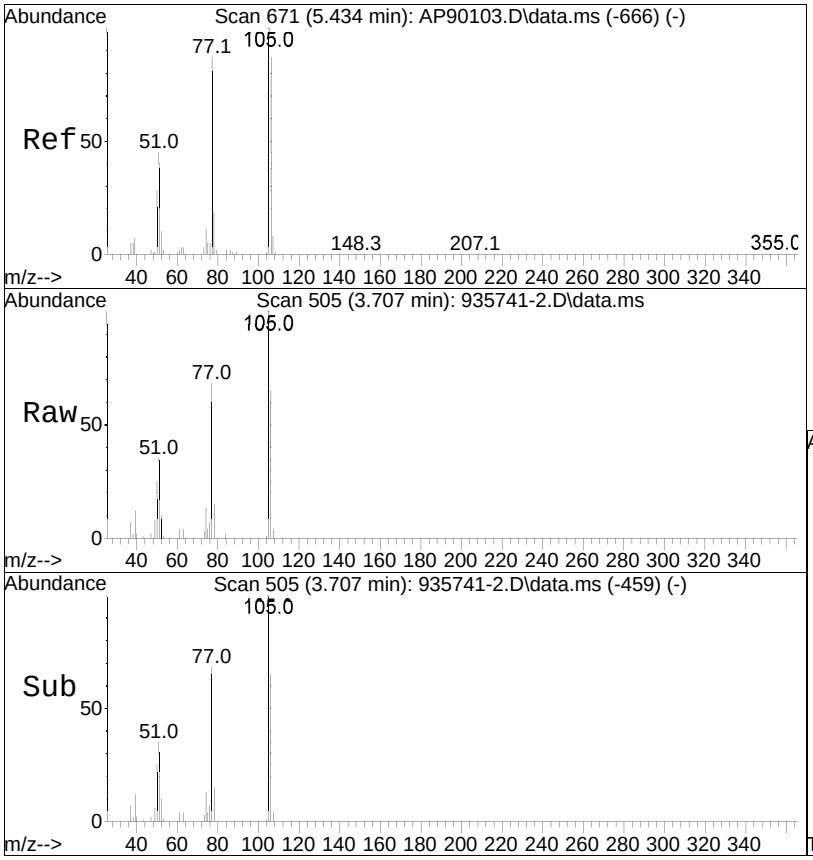


#25
2,4-Dichlorophenol
Concen: 1.69 ug/ml
RT: 6.525 min Scan# 984
Delta R.T. 0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:162 Resp: 28022

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	31.1	32.2	48.2#

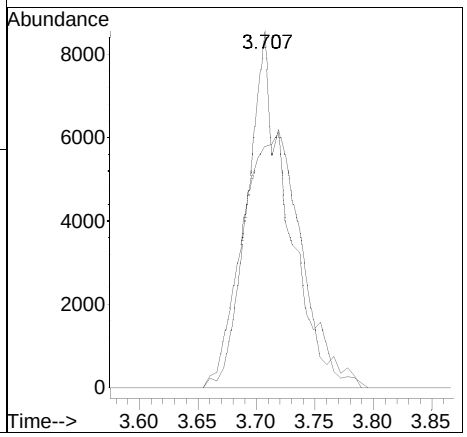


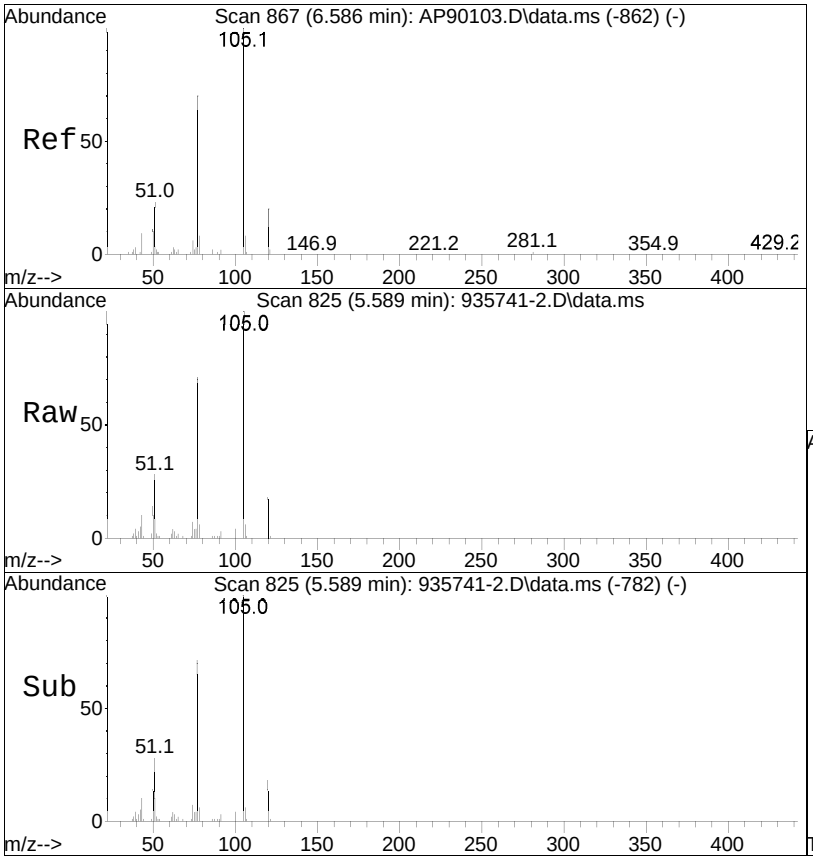


#28
Benzaldehyde
Concen: 1.43 ug/ml
RT: 3.707 min Scan# 505
Delta R.T. 0.018 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:105 Resp: 22651

Ion	Ratio	Lower	Upper
105	100		
77	84.5	82.2	123.4

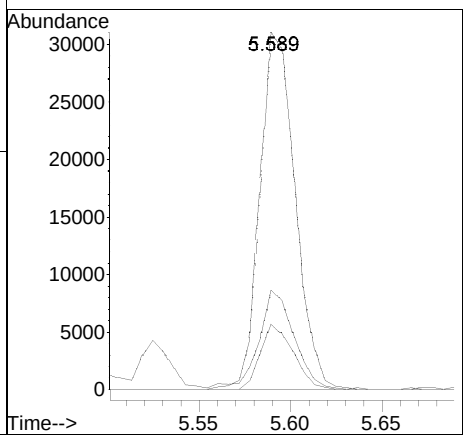


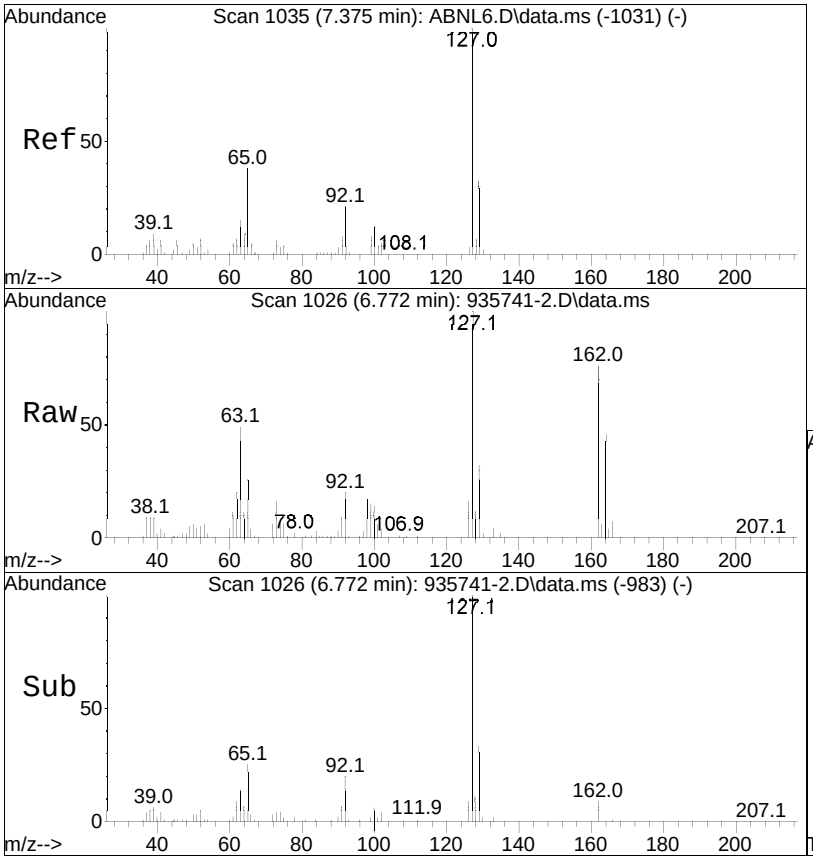


#29
Acetophenone
Concen: 1.44 ug/ml
RT: 5.589 min Scan# 825
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:105 Resp: 41320

Ion	Ratio	Lower	Upper
105	100		
120	17.2	20.5	30.7#
51	28.1	34.9	52.3#

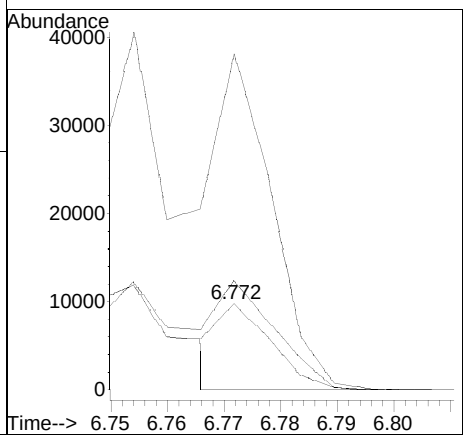


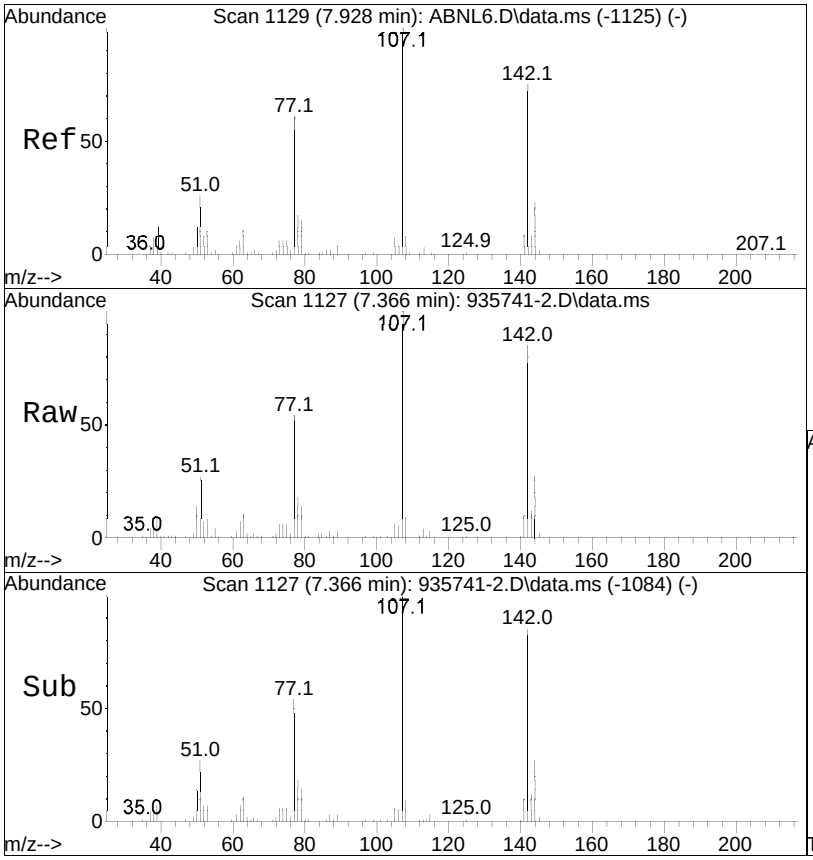


#37
4-Chloroaniline
Concen: 0.73 ug/ml M3
RT: 6.772 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 65 Resp: 6263

Ion	Ratio	Lower	Upper
65	100		
127	623.5	237.6	356.4#
129	202.3	76.3	114.5#

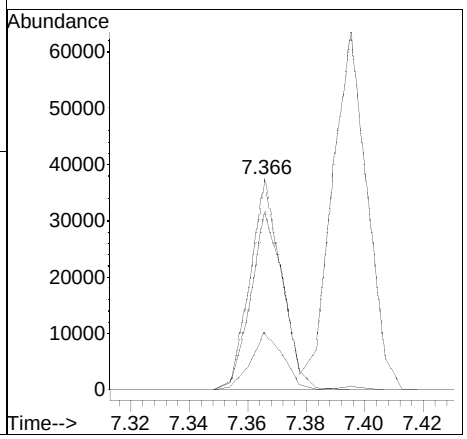


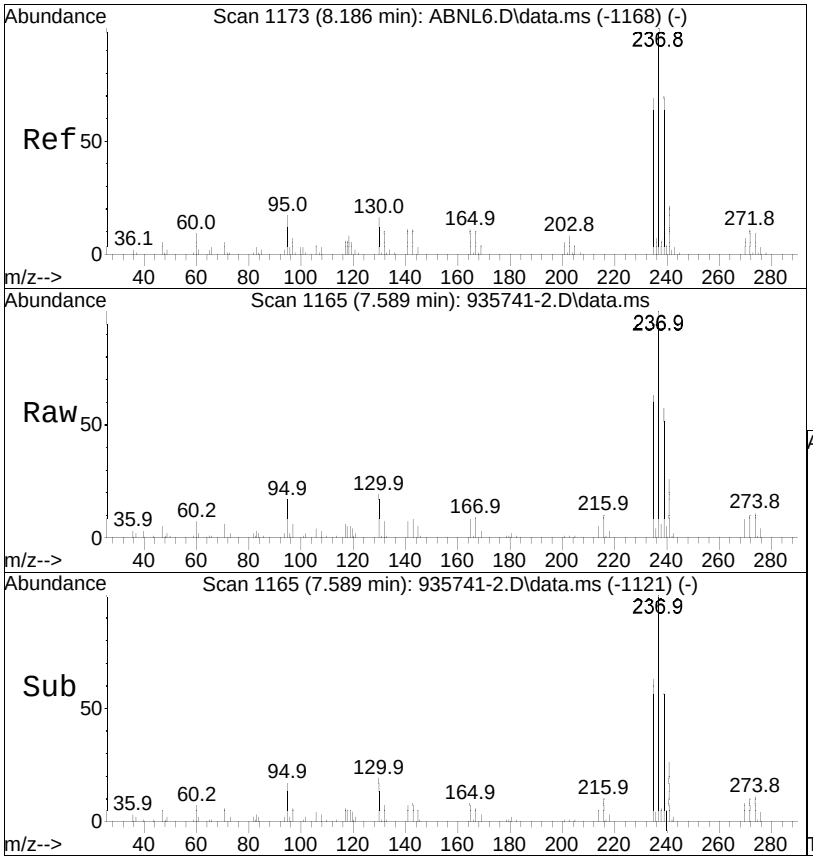


#39
p-Chloro-m-cresol
Concen: 1.59 ug/ml
RT: 7.366 min Scan# 1127
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:107 Resp: 28005

Ion	Ratio	Lower	Upper
107	100		
144	28.1	20.9	31.3
142	87.4	66.1	99.1

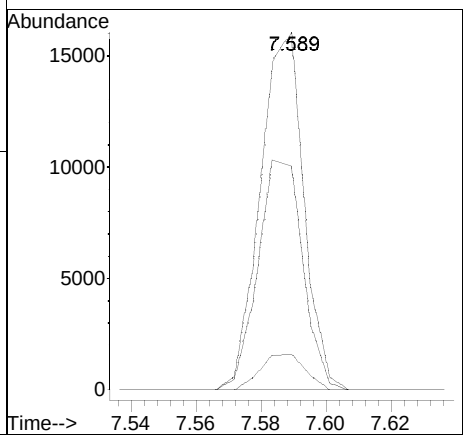


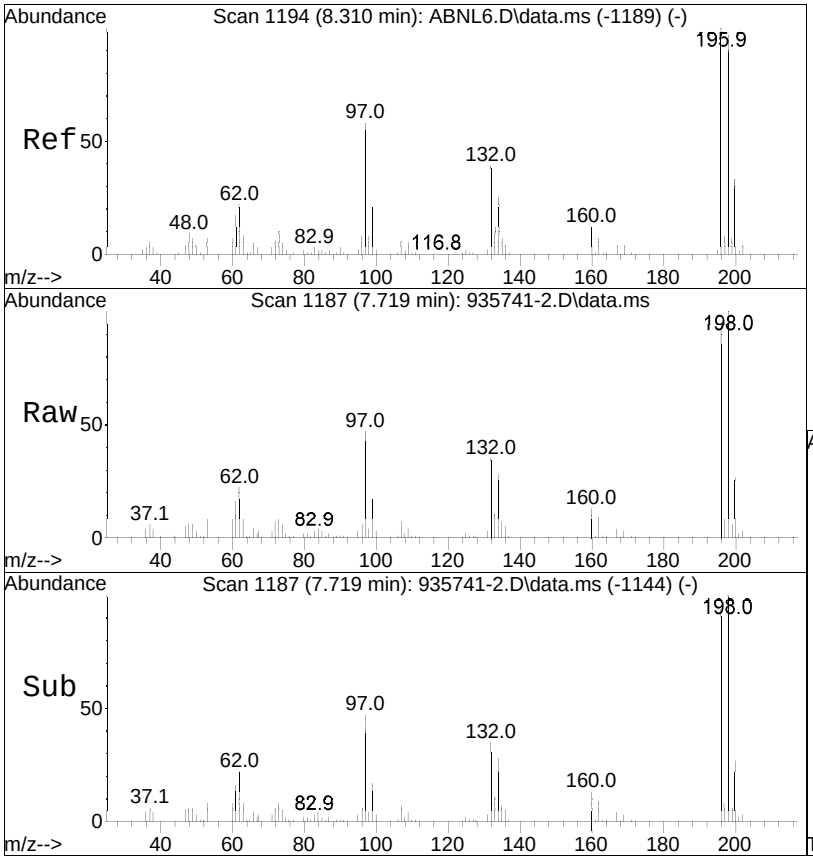


#42
Hexachlorocyclopentadiene
Concen: 1.01 ug/ml
RT: 7.589 min Scan# 1165
Delta R.T. 0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:237 Resp: 14803

Ion	Ratio	Lower	Upper
237	100		
235	66.4	49.7	74.5
272	10.5	9.8	14.6

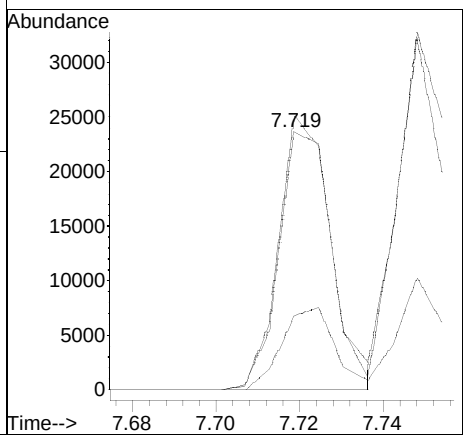


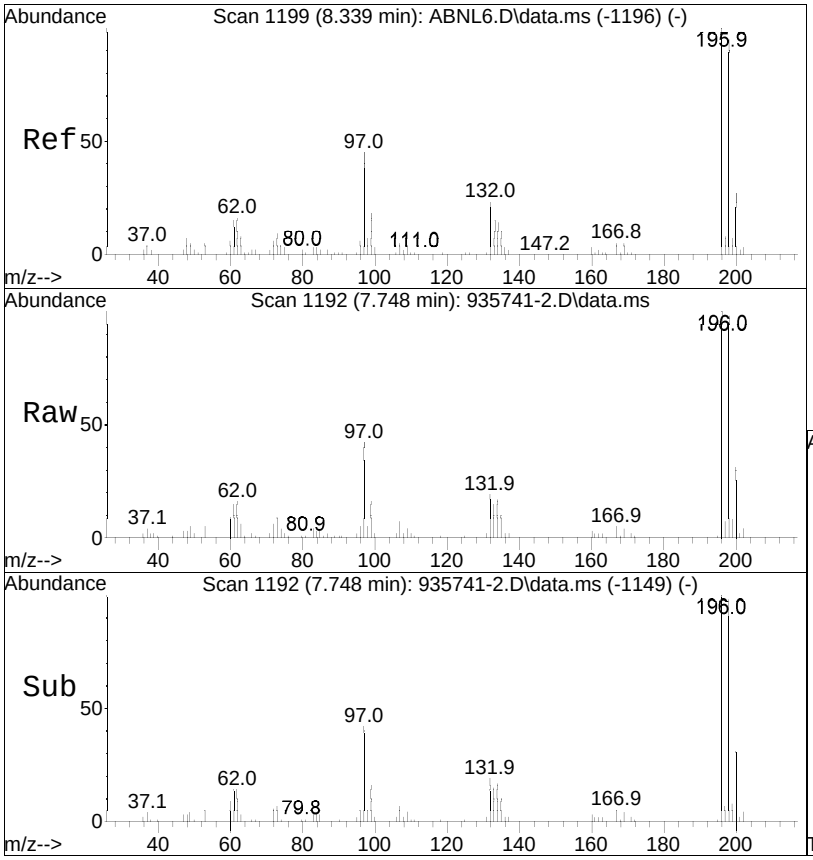


#43
2,4,6-Trichlorophenol
Concen: 1.48 ug/ml
RT: 7.719 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:196 Resp: 21176

Ion	Ratio	Lower	Upper
196	100		
198	101.0	77.5	116.3
200	31.9	23.8	35.6

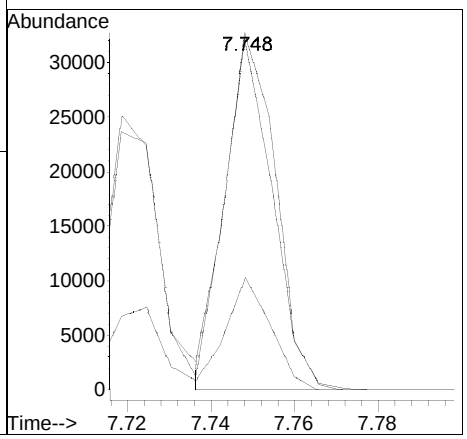


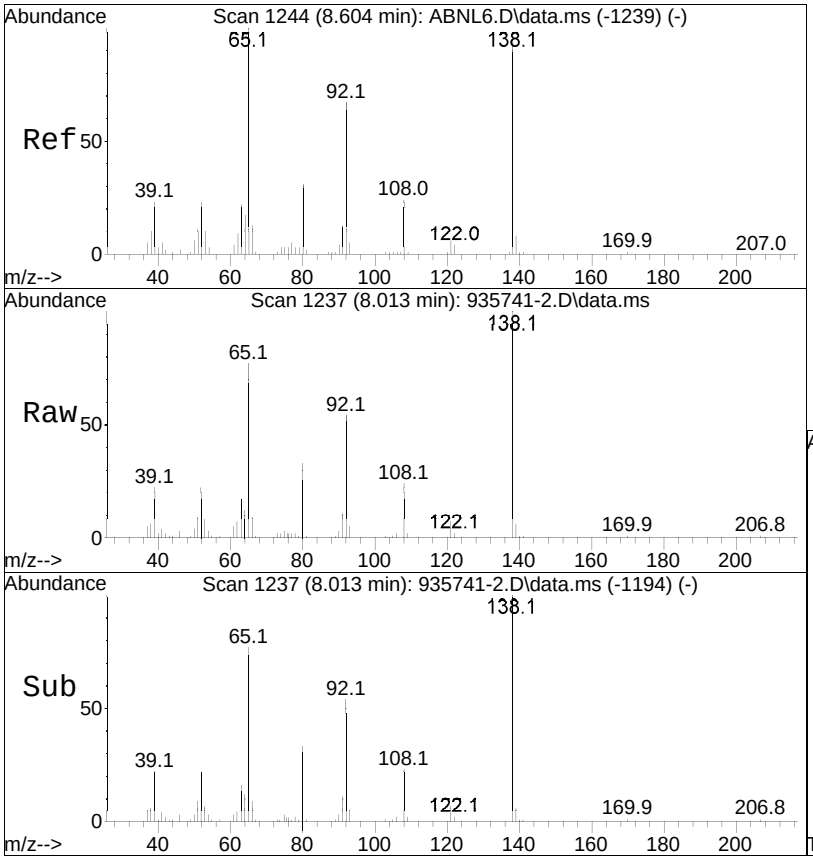


#44
2,4,5-Trichlorophenol
Concen: 1.74 ug/ml
RT: 7.748 min Scan# 1192
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:196 Resp: 27217

Ion	Ratio	Lower	Upper
196	100		
200	28.3	25.4	38.0
198	93.4	78.0	117.0

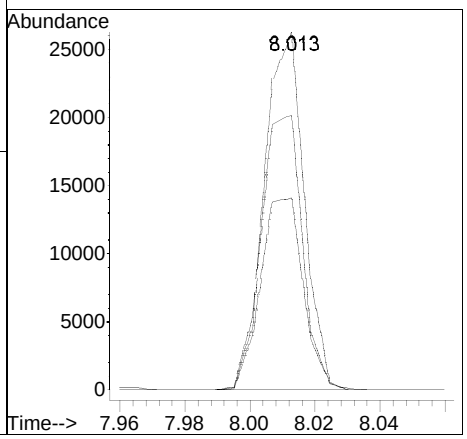


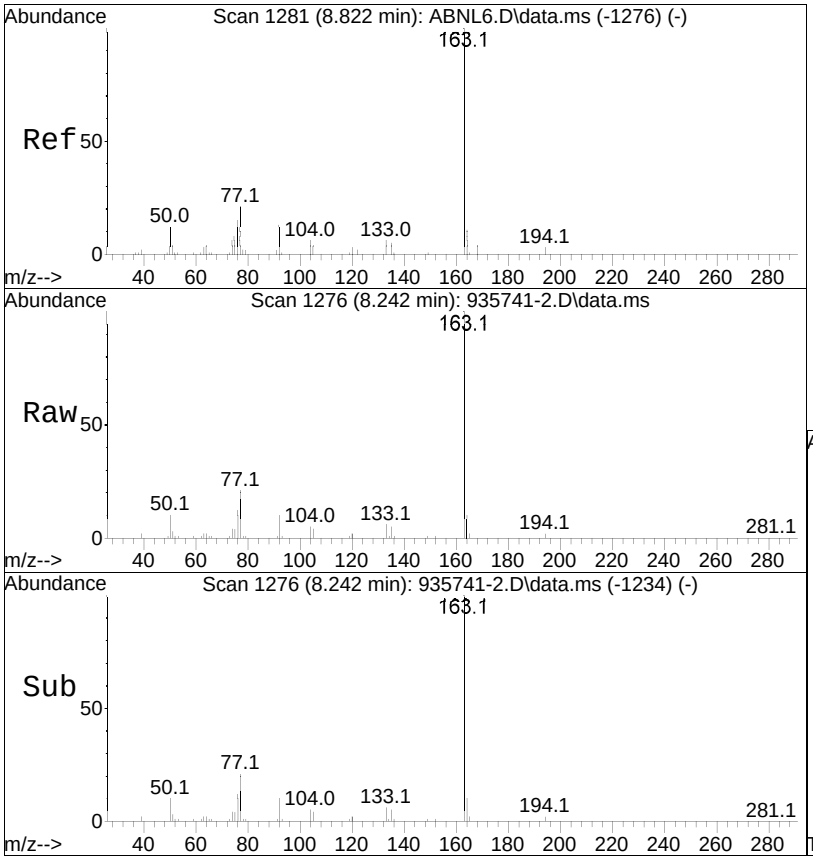


#47
2-Nitroaniline
Concen: 1.90 ug/ml
RT: 8.013 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:138 Resp: 22076

Ion	Ratio	Lower	Upper
138	100		
92	58.0	53.5	80.3
65	80.3	86.3	129.5#

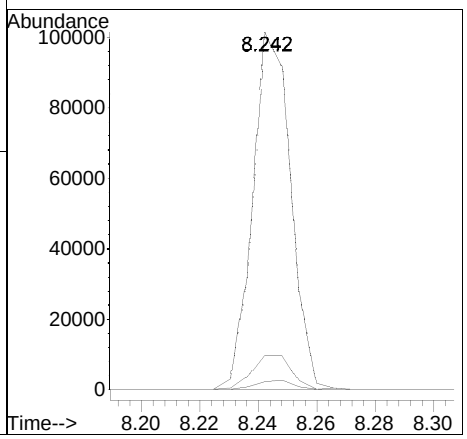


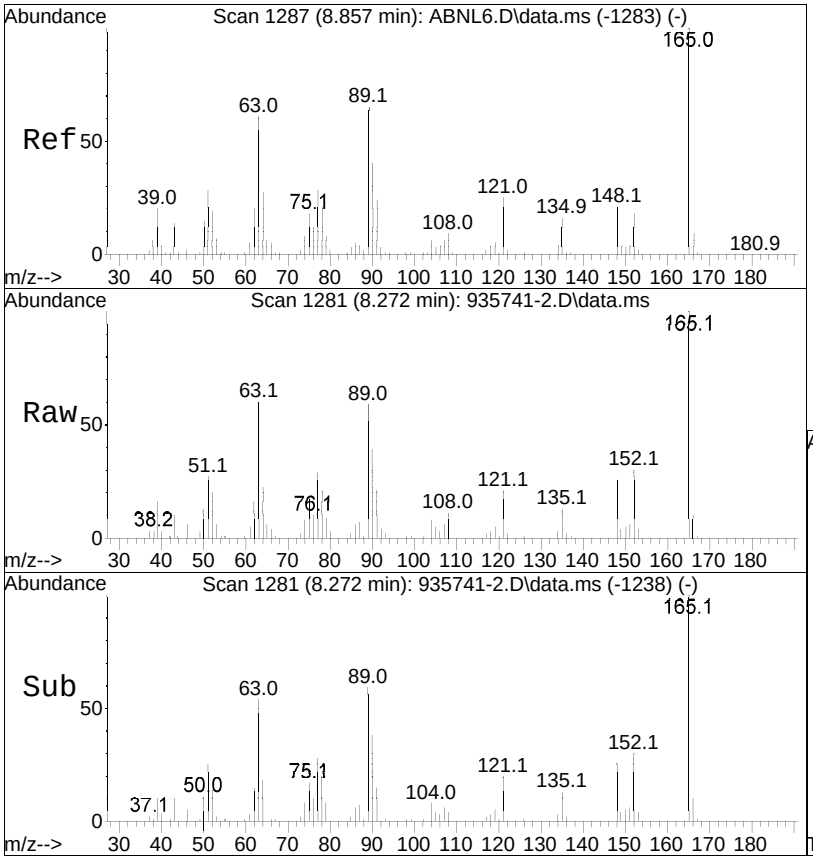


#50
Dimethyl phthalate
Concen: 1.71 ug/ml
RT: 8.242 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:163 Resp: 90628

Ion	Ratio	Lower	Upper
163	100		
194	2.3	3.5	5.3#
164	10.2	7.9	11.9

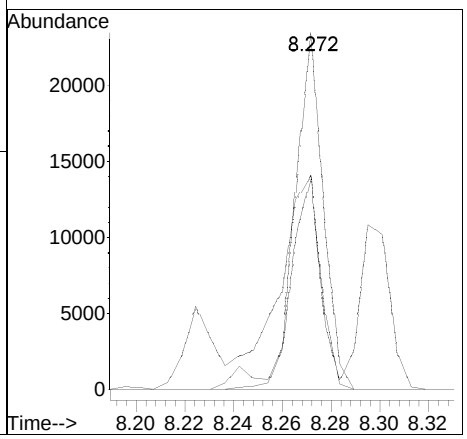


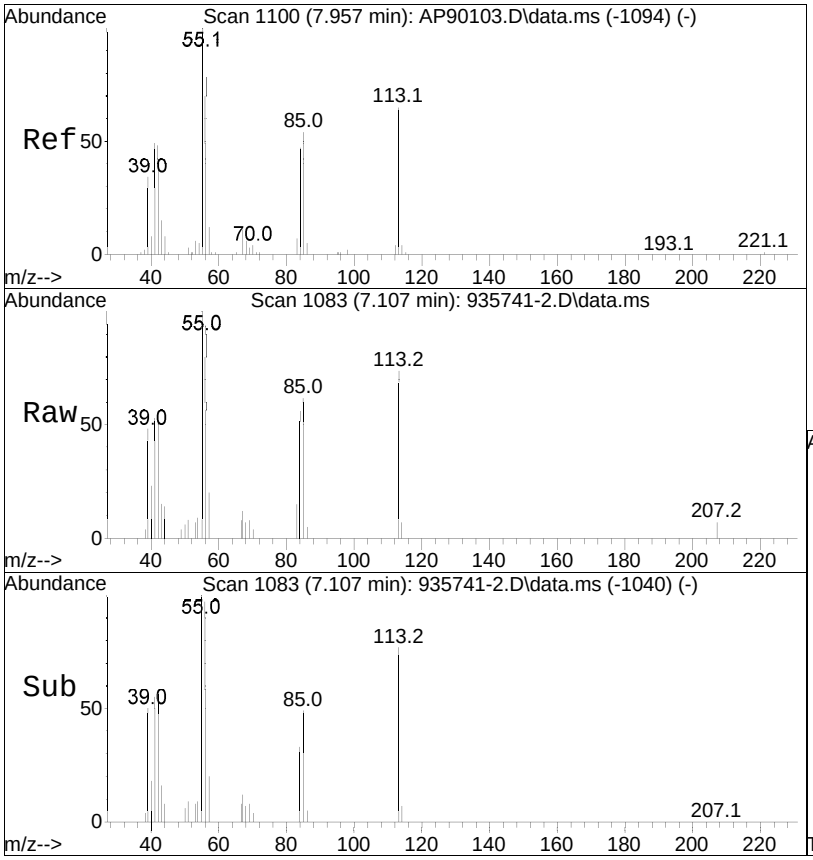


#52
2,6-Dinitrotoluene
Concen: 1.84 ug/ml
RT: 8.272 min Scan# 1281
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:165 Resp: 19565

Ion	Ratio	Lower	Upper
165	100		
89	59.0	54.2	81.2
63	85.2	64.2	96.2

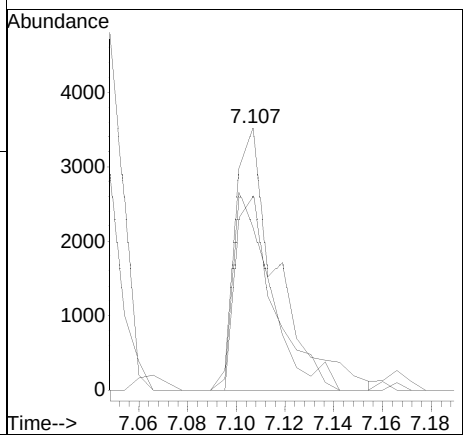


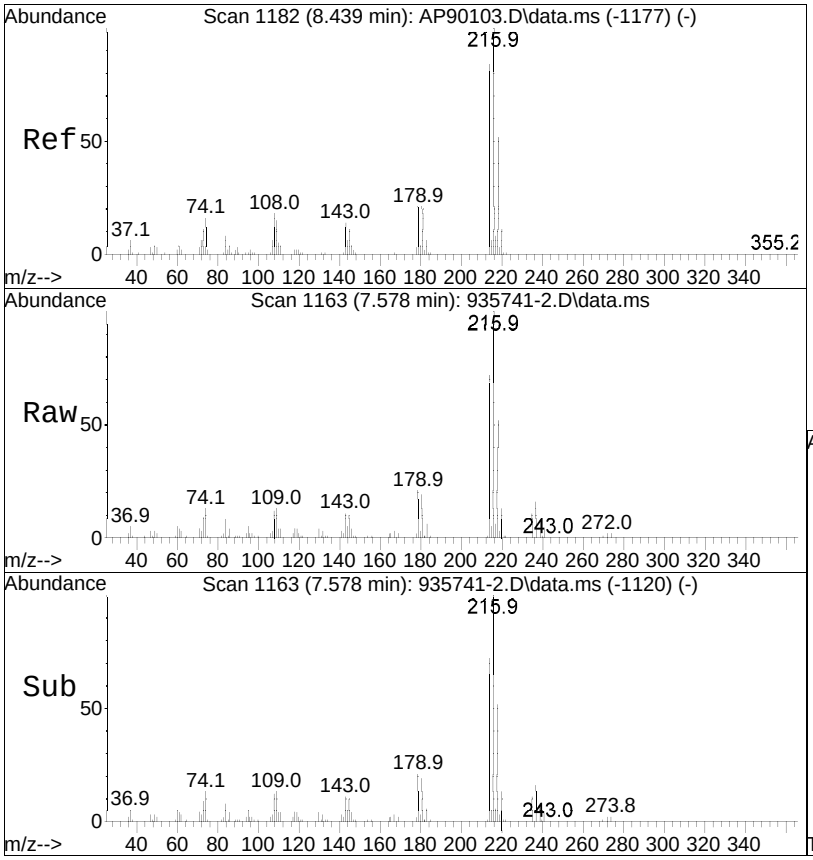


#59
Caprolactam
Concen: 0.45 ug/ml
RT: 7.107 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 55 Resp: 4308

Ion	Ratio	Lower	Upper
55	100		
85	66.3	19.8	29.6#
113	66.7	29.6	44.4#

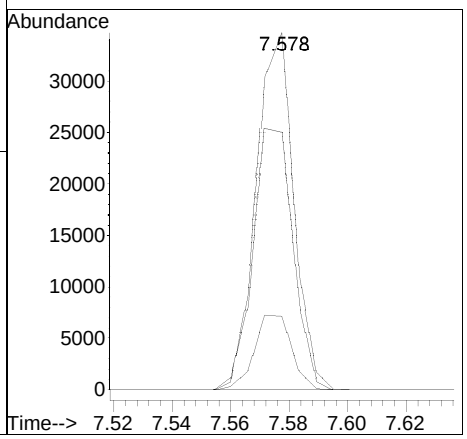


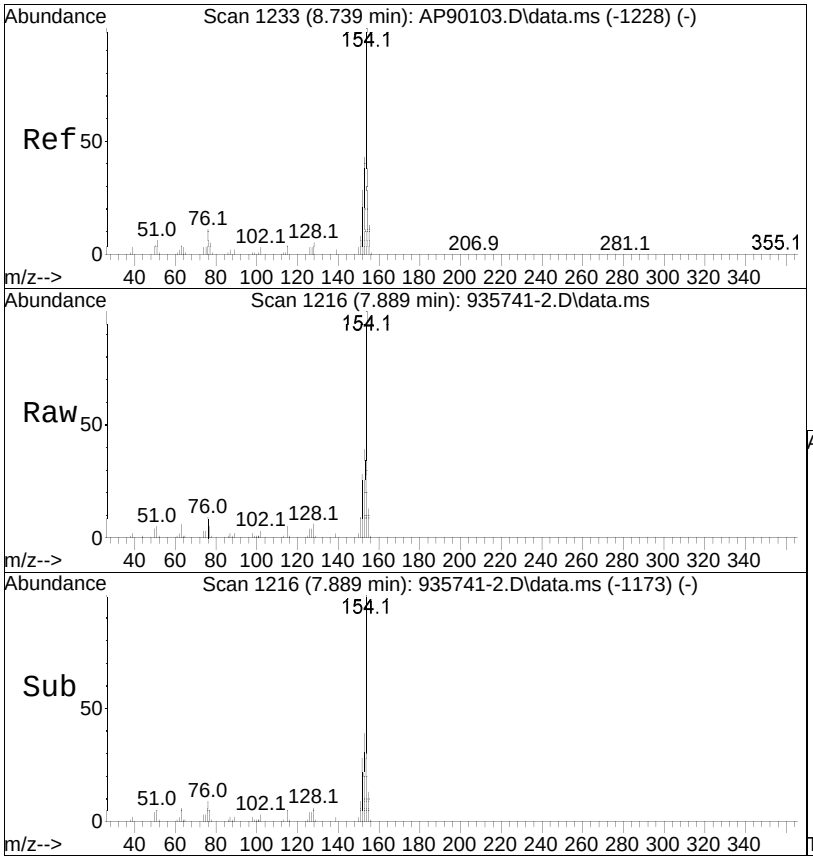


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.25 ug/ml
RT: 7.578 min Scan# 1163
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:216 Resp: 30975

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.7	95.5
179	21.0	19.0	28.6

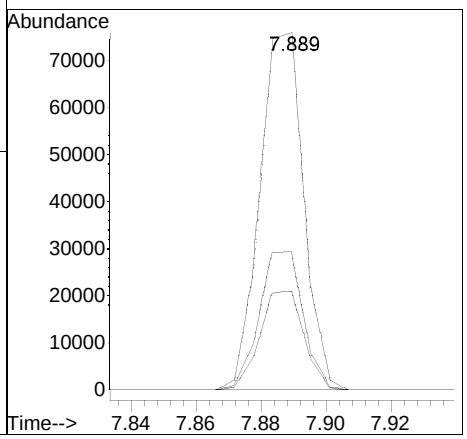


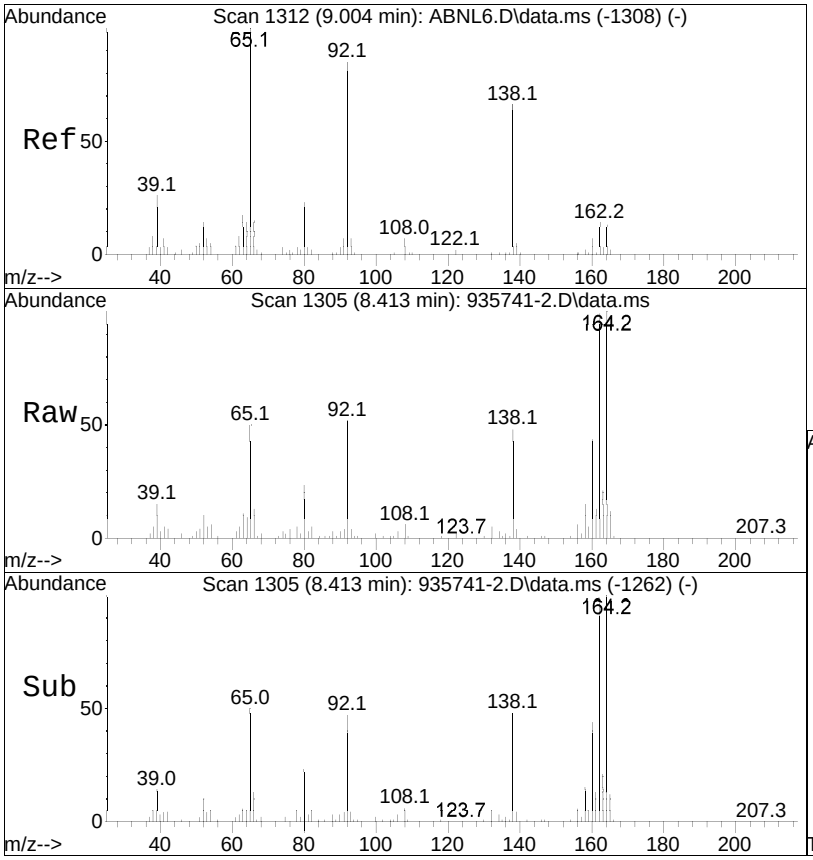


#61
Biphenyl
Concen: 1.46 ug/ml
RT: 7.889 min Scan# 1216
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:154 Resp: 71003

Ion	Ratio	Lower	Upper
154	100		
153	38.9	32.3	48.5
152	27.9	22.5	33.7

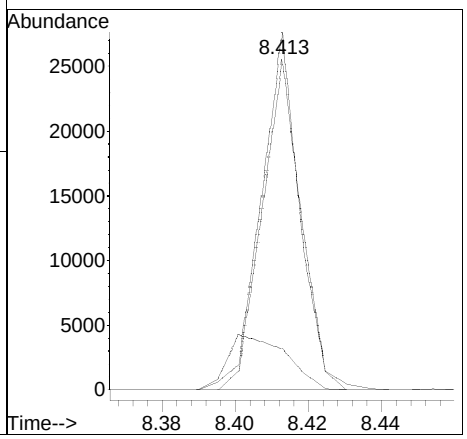


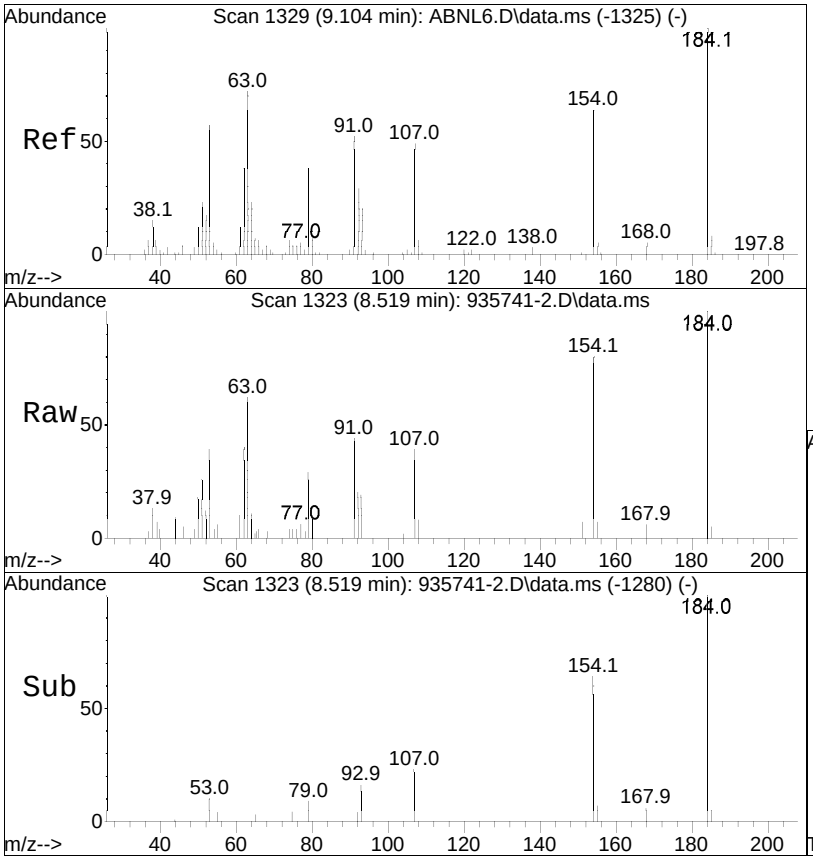


#63
3-Nitroaniline
Concen: 1.84 ug/ml
RT: 8.413 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:138 Resp: 18687

Ion	Ratio	Lower	Upper
138	100		
92	107.6	93.4	140.2
108	25.5	9.5	14.3#

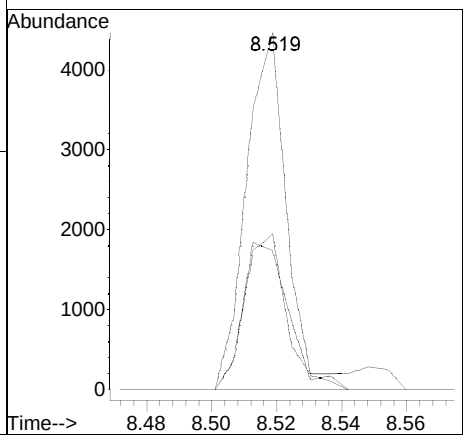


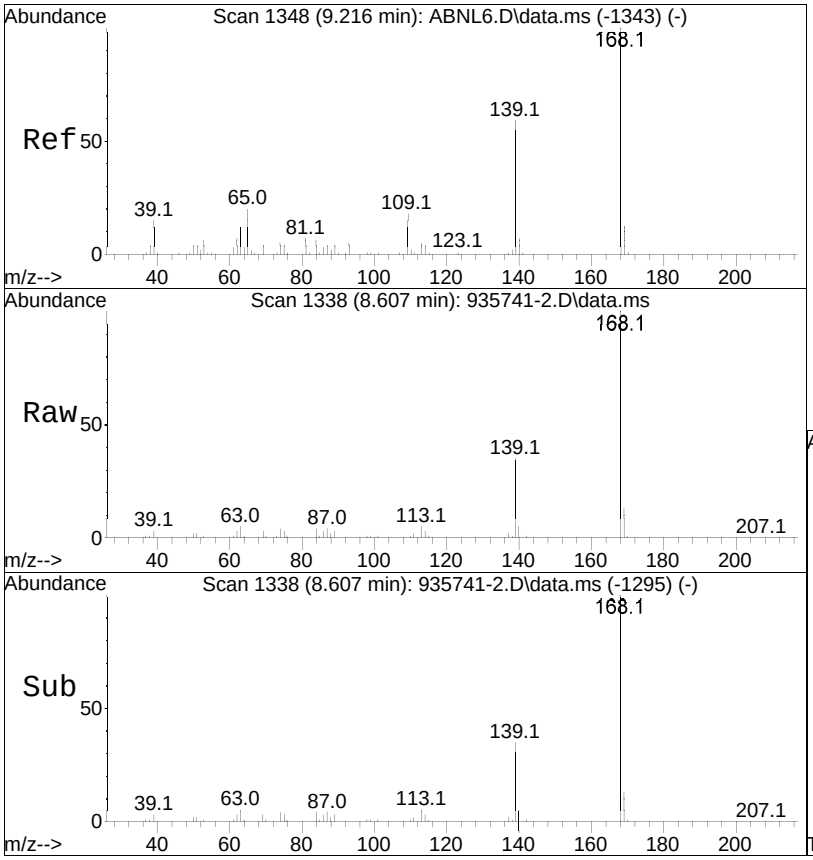


#65
2,4-Dinitrophenol
Concen: 0.88 ug/ml
RT: 8.519 min Scan# 1323
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:184 Resp: 3752

Ion	Ratio	Lower	Upper
184	100		
107	47.9	37.7	56.5
91	46.9	46.3	69.5

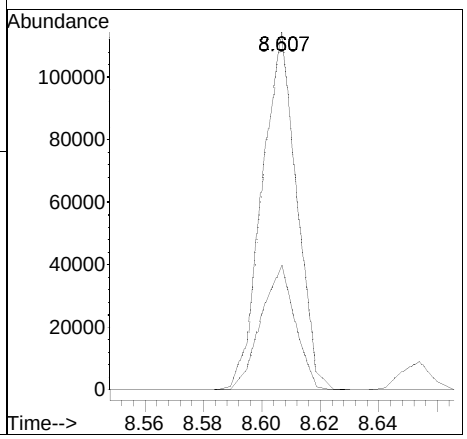


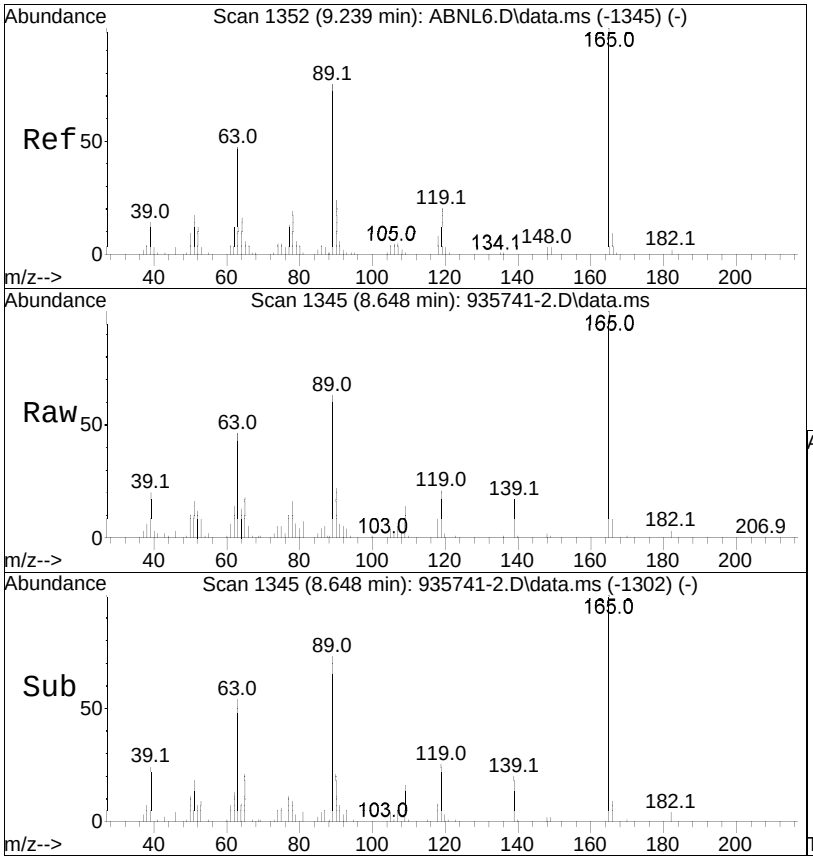


#66
Dibenzofuran
Concen: 1.55 ug/ml
RT: 8.607 min Scan# 1338
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:168 Resp: 93217

Ion	Ratio	Lower	Upper
168	100		
139	34.7	31.4	47.2

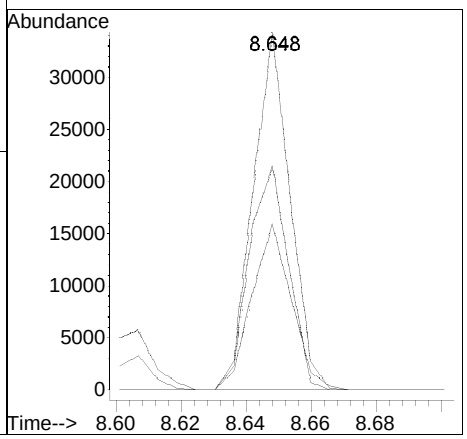


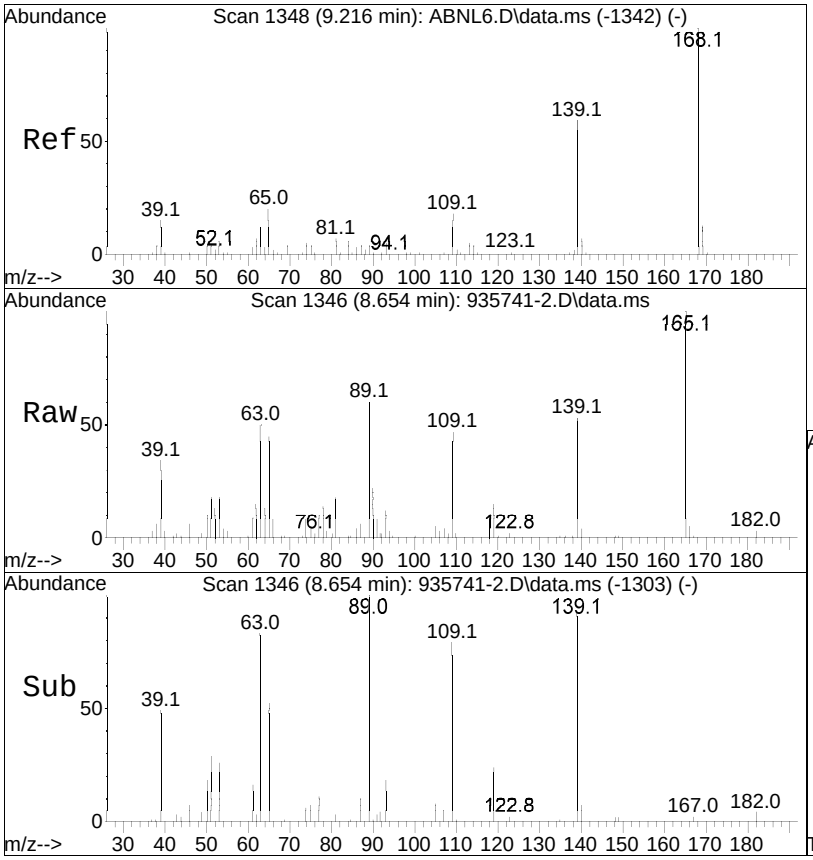


#67
2,4-Dinitrotoluene
Concen: 1.95 ug/ml
RT: 8.648 min Scan# 1345
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:165 Resp: 26954

Ion	Ratio	Lower	Upper
165	100		
89	66.4	72.0	108.0#
63	49.8	52.7	79.1#

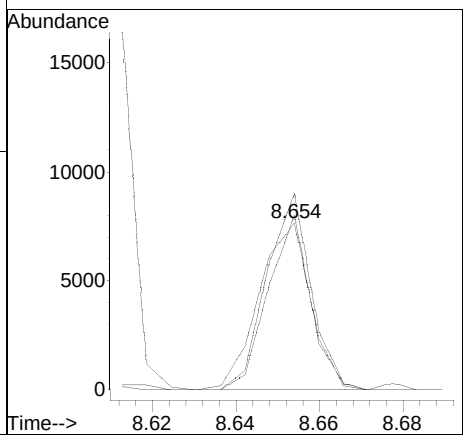


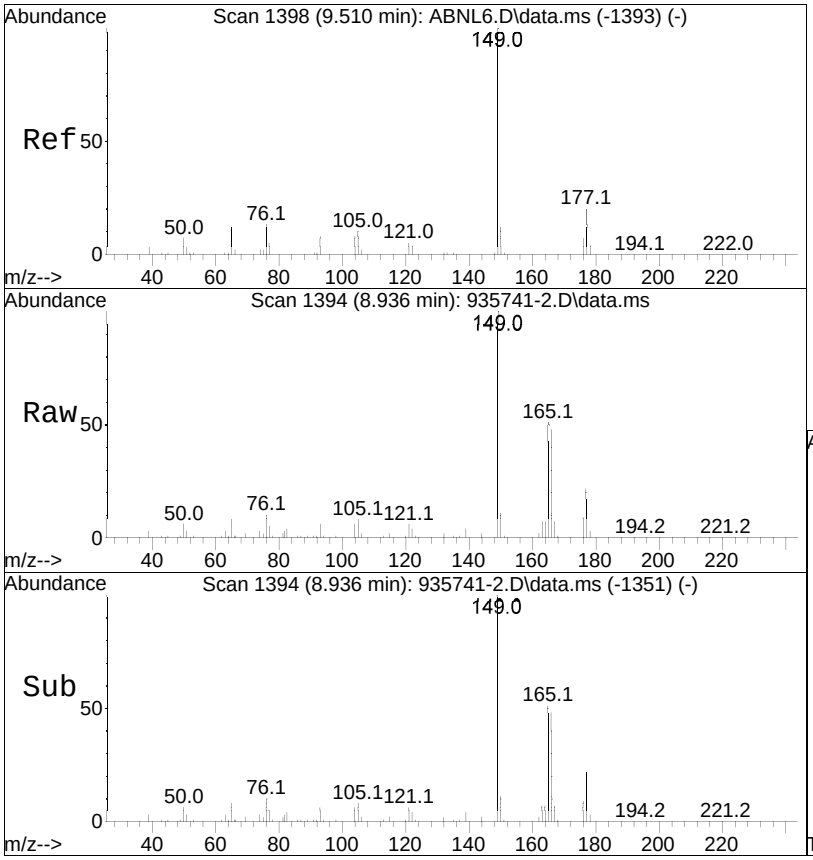


#68
4-Nitrophenol
Concen: 0.60 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion: 65 Resp: 6543

Ion	Ratio	Lower	Upper
65	100		
109	86.2	47.4	71.2#
139	101.3	76.6	115.0

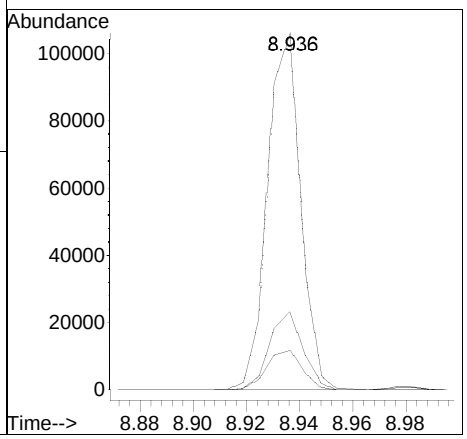


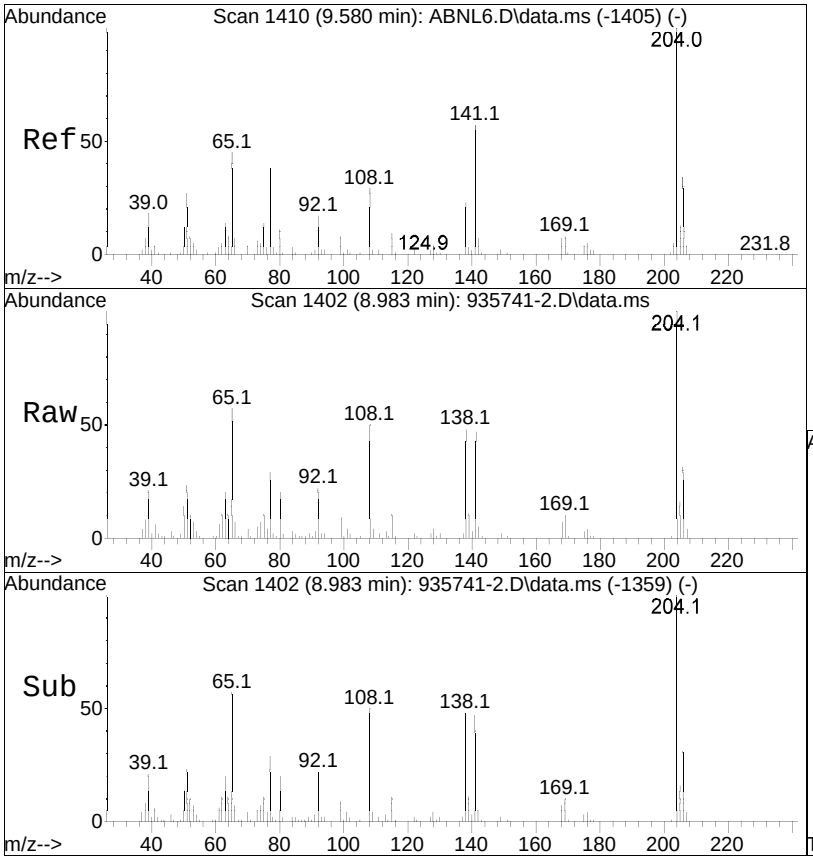


#71
Diethyl phthalate
Concen: 1.83 ug/ml
RT: 8.936 min Scan# 1394
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:149 Resp: 91525

Ion	Ratio	Lower	Upper
149	100		
177	22.3	16.1	24.1
150	12.0	9.4	14.2

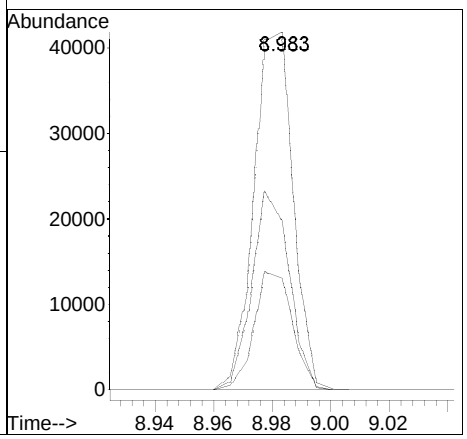


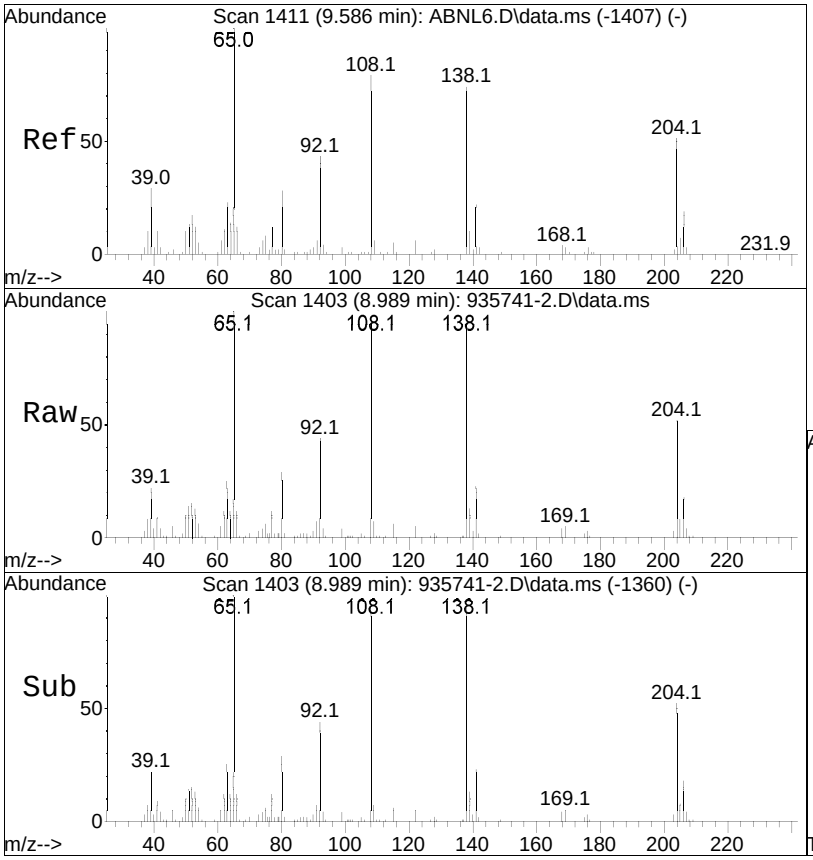


#73
4-Chlorophenyl phenyl ether
Concen: 1.56 ug/ml
RT: 8.983 min Scan# 1402
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:204 Resp: 38731

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	53.0	53.6	80.4#

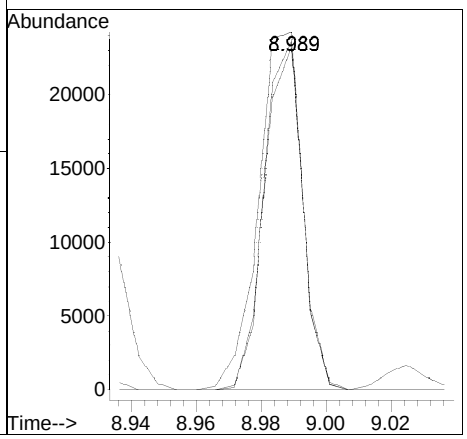


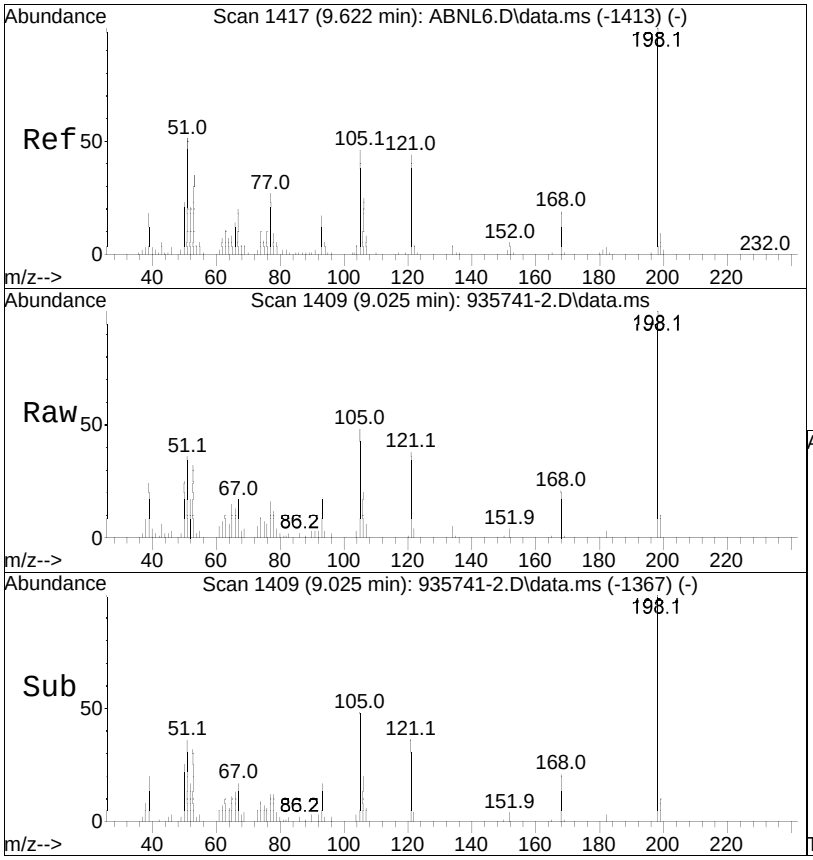


#74
4-Nitroaniline
Concen: 1.91 ug/ml
RT: 8.989 min Scan# 1403
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:138 Resp: 19036

Ion	Ratio	Lower	Upper
138	100		
108	101.1	52.1	78.1#
65	118.5	115.0	172.6

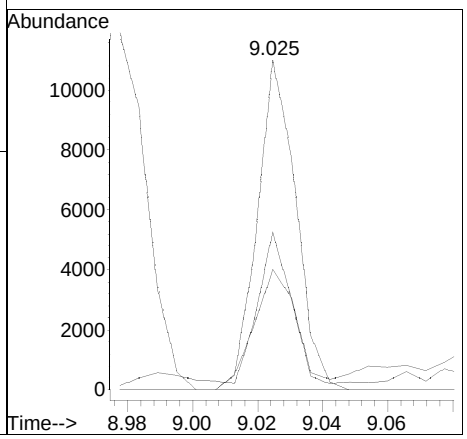


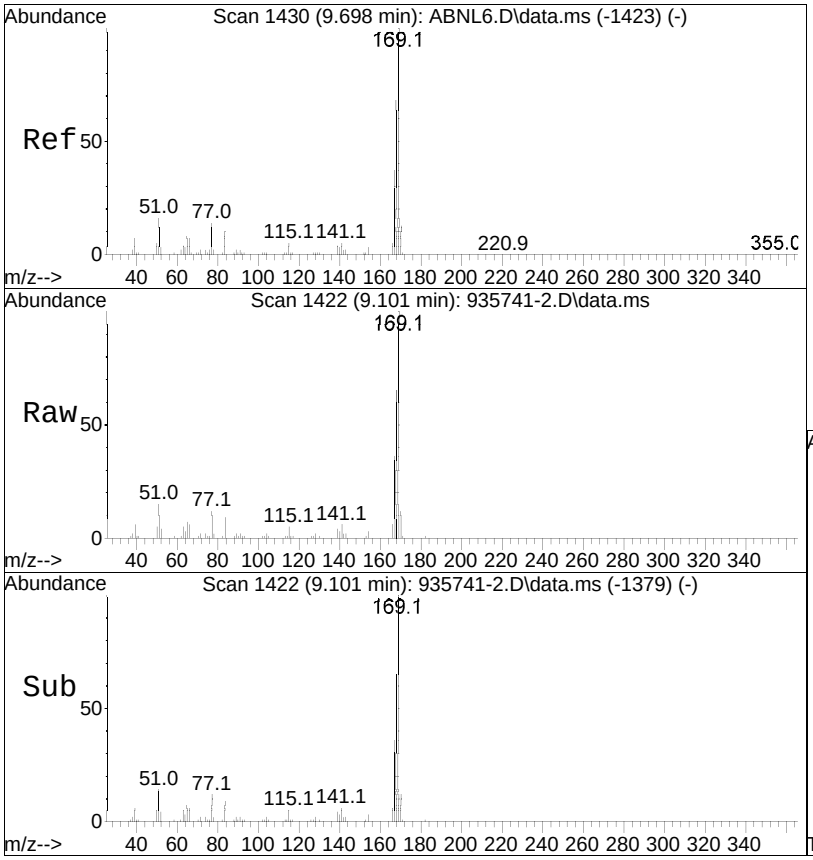


#75
4,6-Dinitro-o-cresol
Concen: 1.16 ug/ml
RT: 9.025 min Scan# 1409
Delta R.T. -0.006 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:198 Resp: 9040

Ion	Ratio	Lower	Upper
198	100		
51	41.1	76.0	114.0#
105	46.0	45.6	68.4

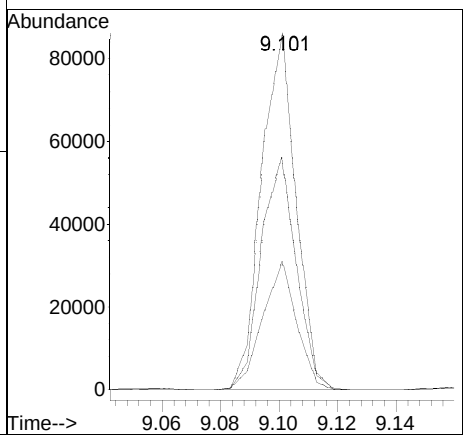


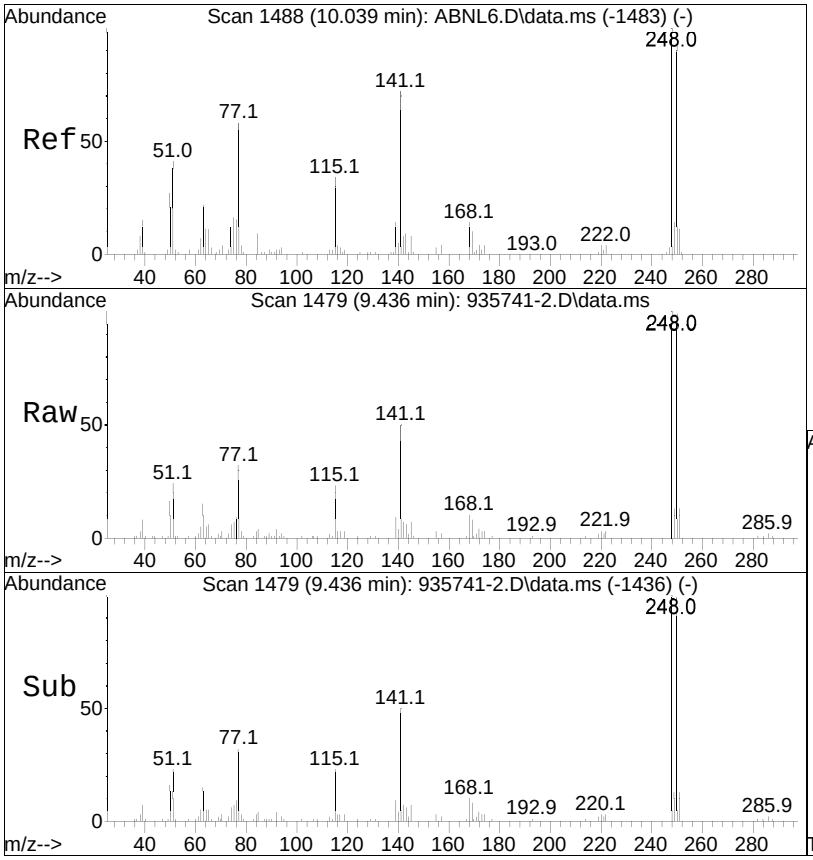


#76
NDPA/DPA
Concen: 1.81 ug/ml
RT: 9.101 min Scan# 1422
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:169 Resp: 70418

Ion	Ratio	Lower	Upper
169	100		
168	66.5	54.0	81.0
167	35.8	28.6	42.8

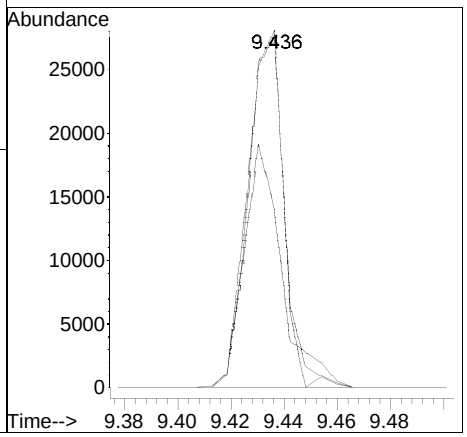


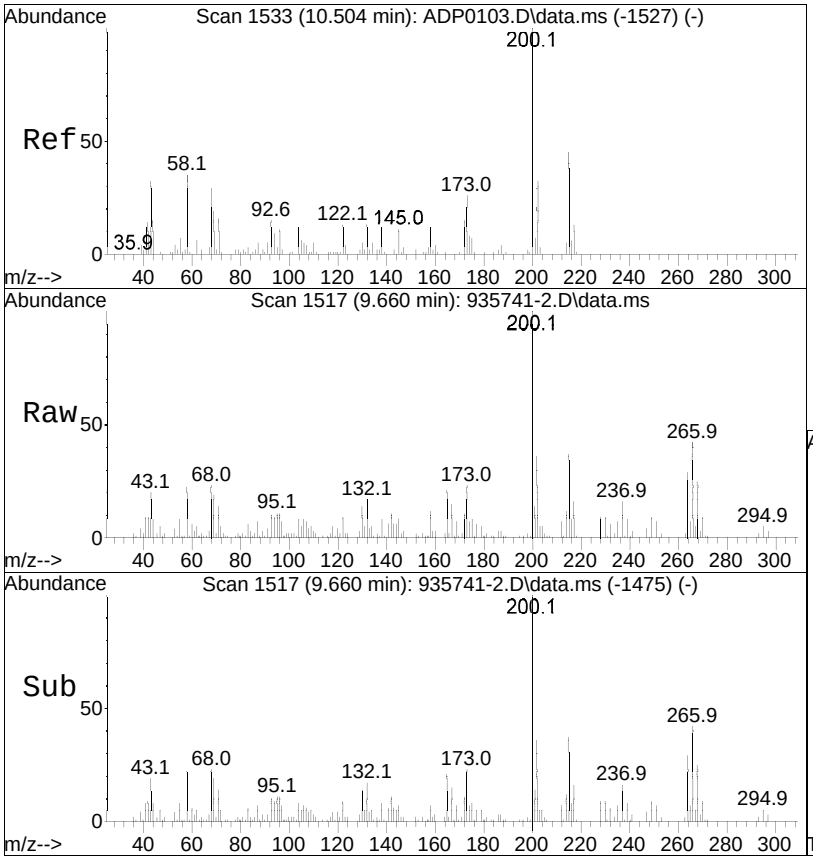


#79
4-Bromophenyl phenyl ether
Concen: 1.70 ug/ml
RT: 9.436 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:248 Resp: 25227

Ion	Ratio	Lower	Upper
248	100		
141	73.9	76.6	114.8#
250	104.8	77.3	115.9

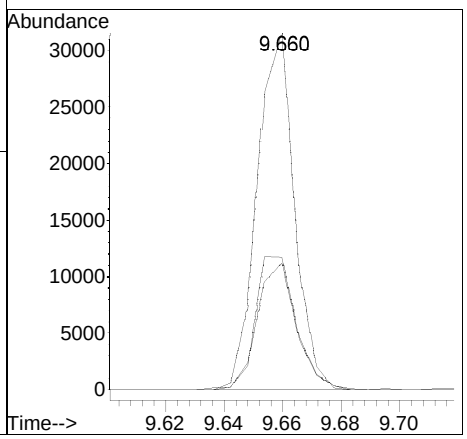


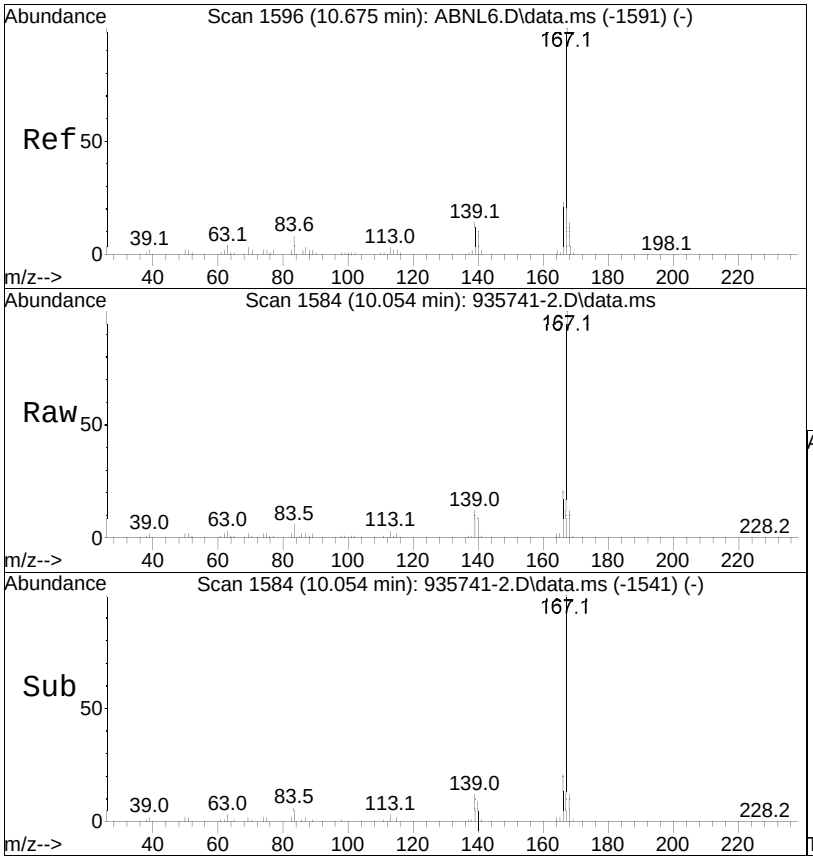


#86
Atrazine
Concen: 1.98 ug/ml
RT: 9.660 min Scan# 1517
Delta R.T. -0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:200 Resp: 27699

Ion	Ratio	Lower	Upper
200	100		
202	38.1	25.8	38.6
215	41.1	40.2	60.4

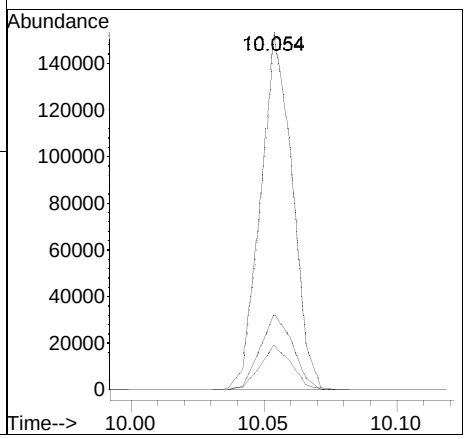


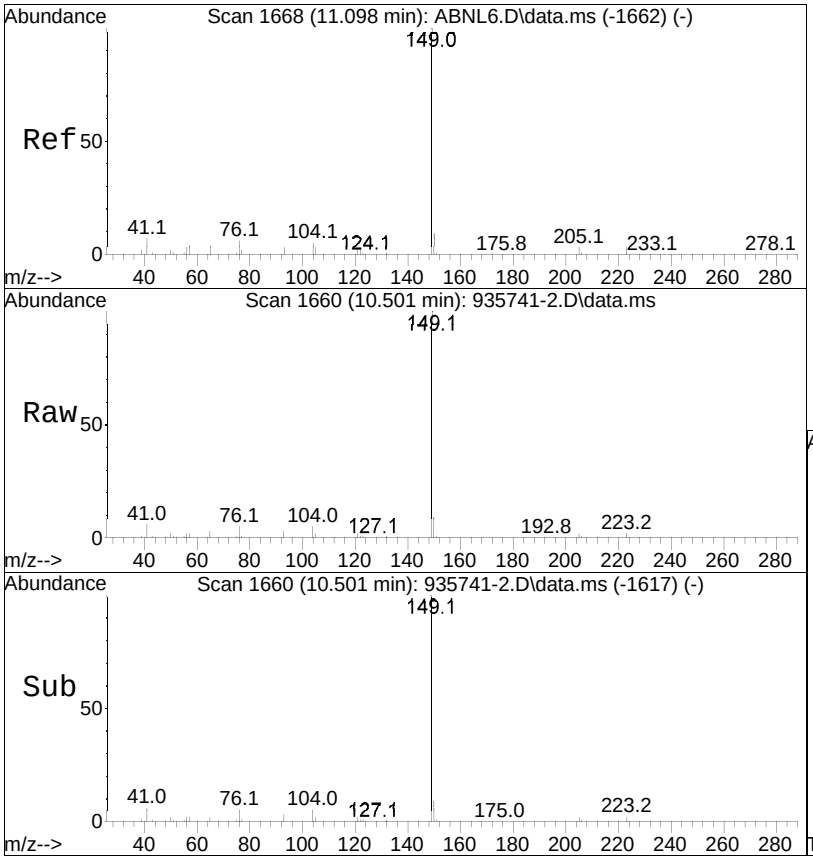


#90
Carbazole
Concen: 1.89 ug/ml
RT: 10.054 min Scan# 1584
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:167 Resp: 125755

Ion	Ratio	Lower	Upper
167	100		
168	12.6	10.6	15.8
166	22.0	17.4	26.0

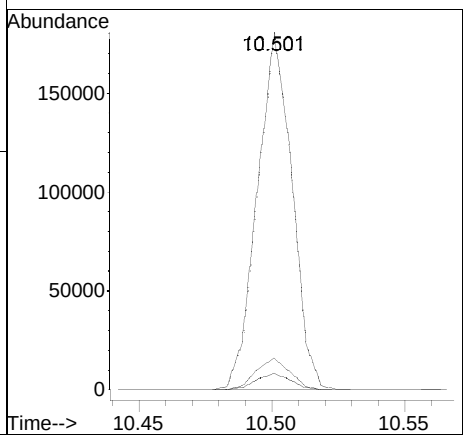


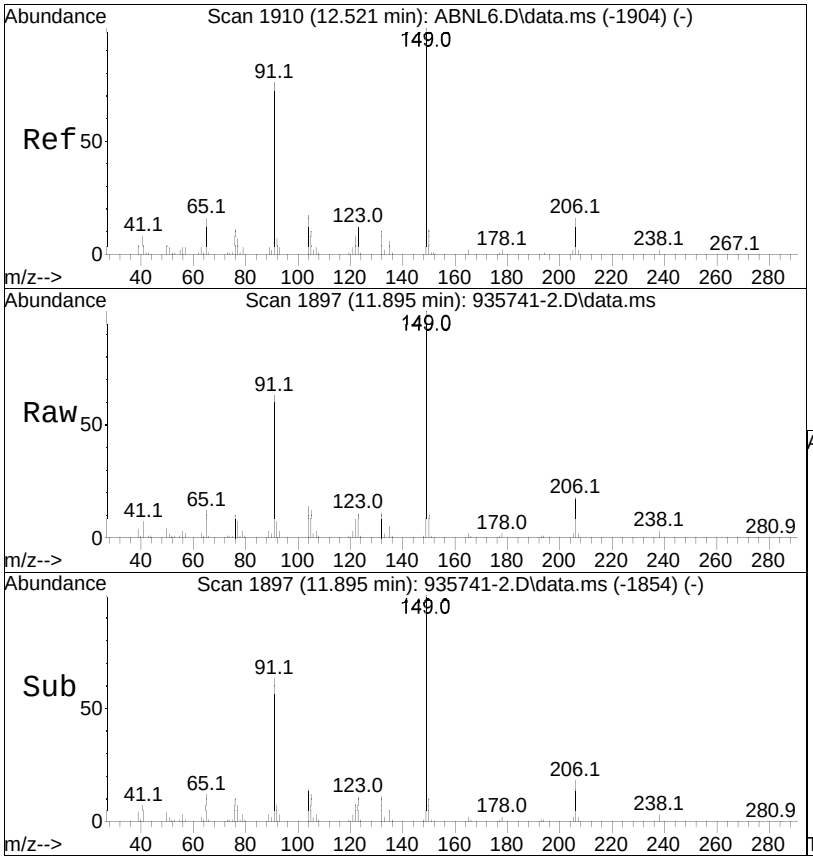


#91
Di-n-butylphthalate
Concen: 2.00 ug/ml
RT: 10.501 min Scan# 1660
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:149 Resp: 161567

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	4.9	4.5	6.7

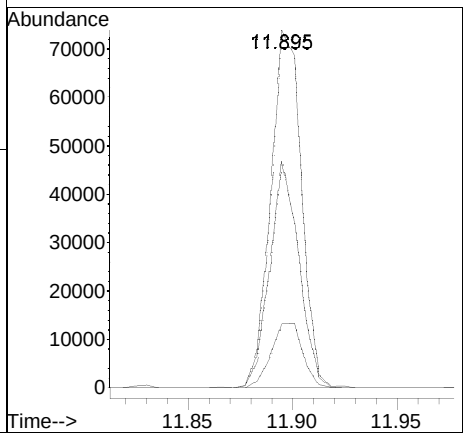


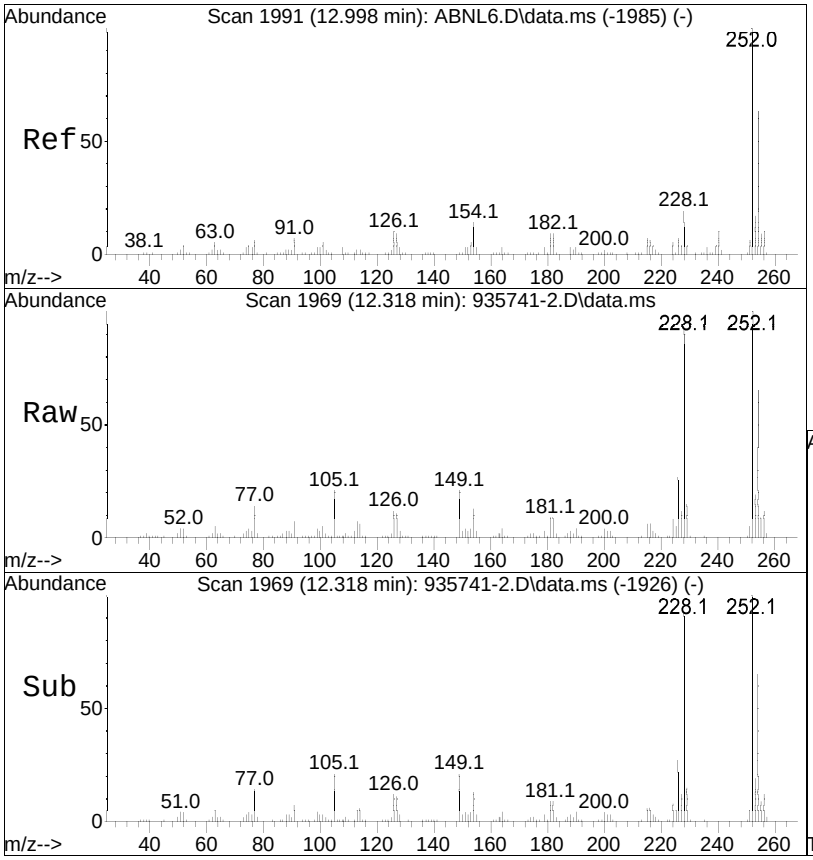


#96
Butyl benzyl phthalate
Concen: 2.17 ug/ml
RT: 11.895 min Scan# 1897
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:149 Resp: 74661

Ion	Ratio	Lower	Upper
149	100		
91	60.1	63.3	94.9#
206	18.6	13.9	20.9

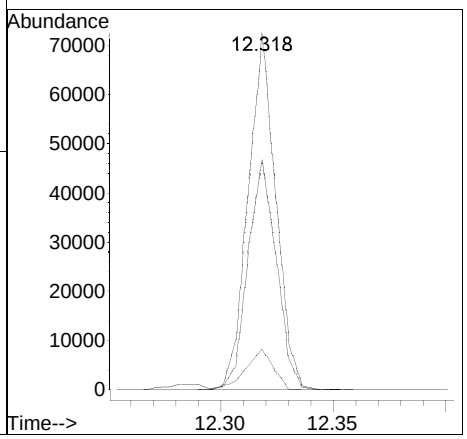


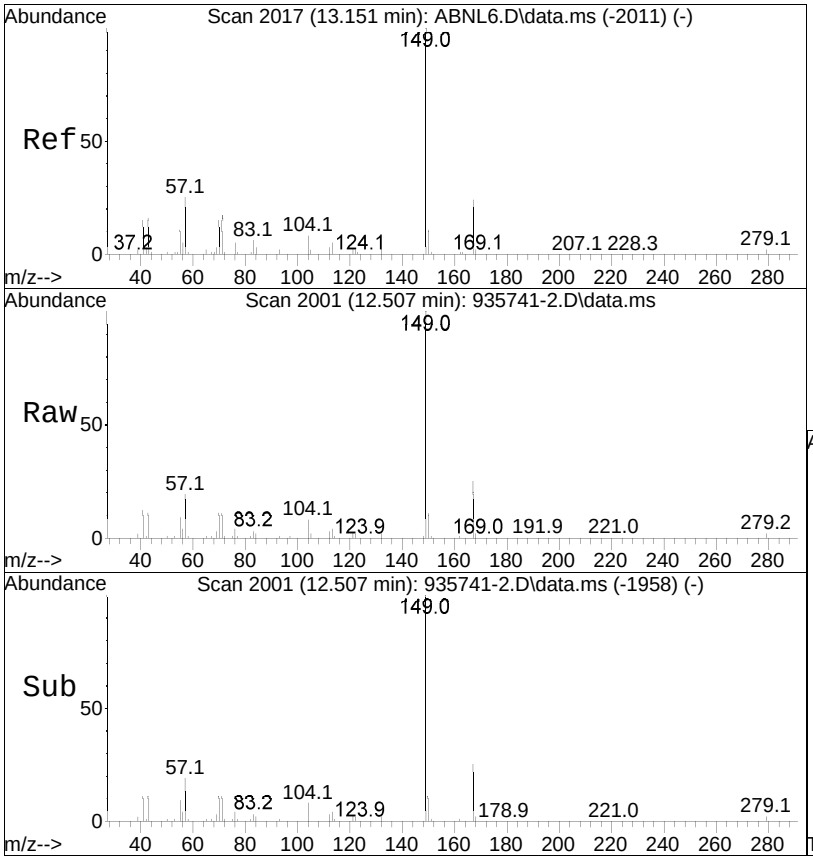


#105
3,3'-Dichlorobenzidine
Concen: 2.03 ug/ml
RT: 12.318 min Scan# 1969
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:252 Resp: 61993

Ion	Ratio	Lower	Upper
252	100		
126	11.5	14.5	21.7#
254	66.3	51.2	76.8

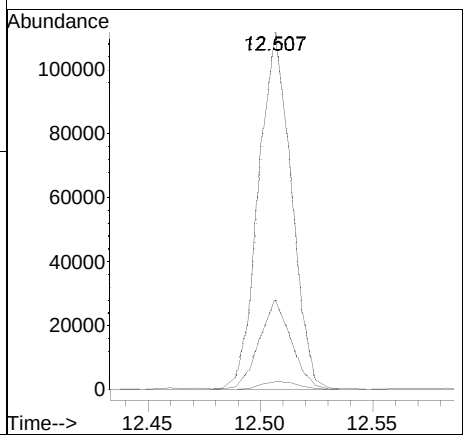


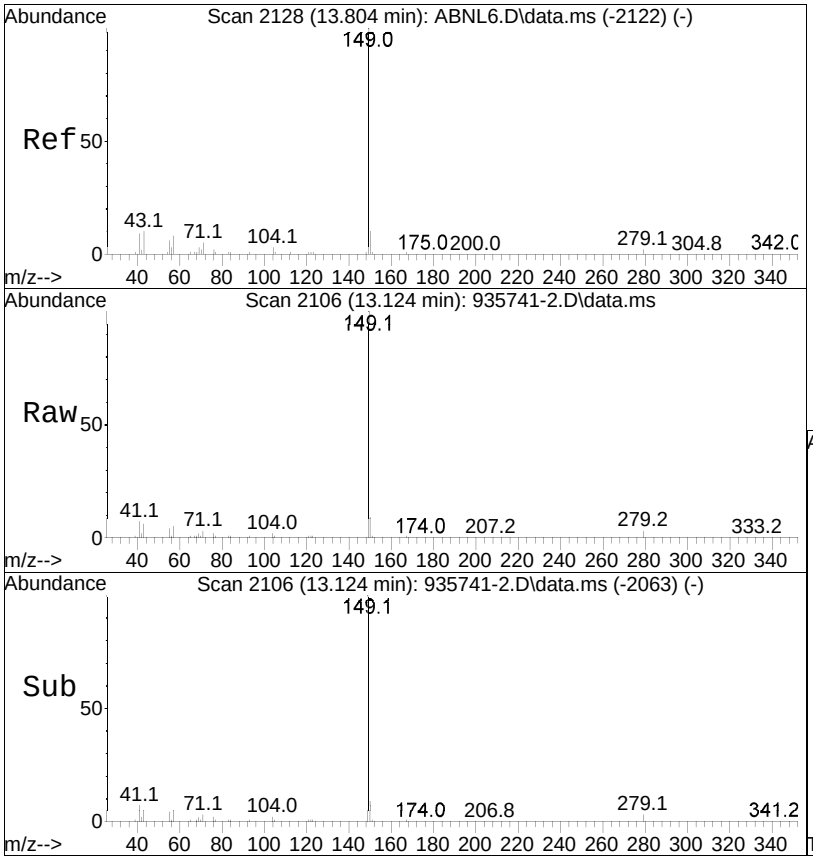


#107
Bis(2-ethylhexyl)phthalate
Concen: 2.14 ug/ml
RT: 12.507 min Scan# 2001
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:149 Resp: 112304

Ion	Ratio	Lower	Upper
149	100		
167	24.6	22.1	33.1
279	2.3	3.0	4.4#

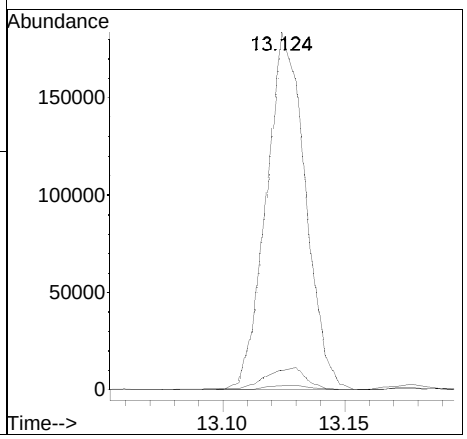




#108
Di-n-octylphthalate
Concen: 2.35 ug/ml
RT: 13.124 min Scan# 2106
Delta R.T. 0.000 min
Lab File: 935741-2.D
Acq: 19 Jun 2024 10:26 am

Tgt Ion:149 Resp: 202247

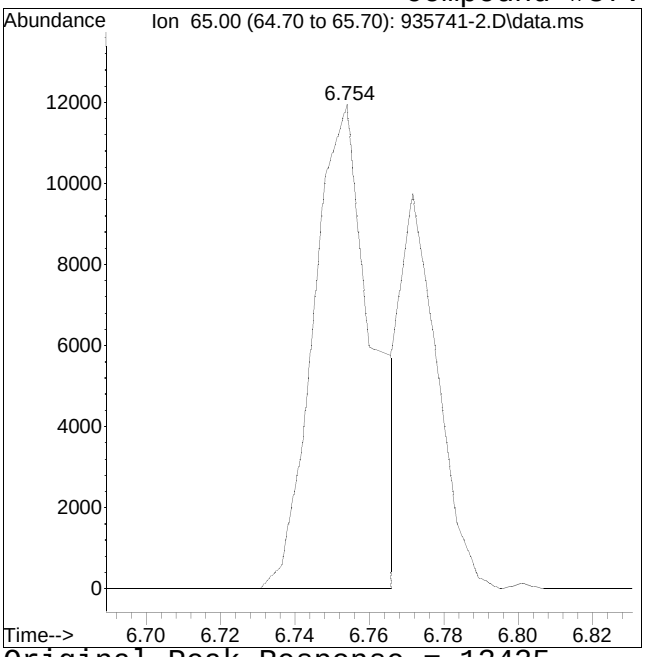
Ion	Ratio	Lower	Upper
149	100		
43	6.8	18.8	28.2#
167	1.3	1.3	1.9

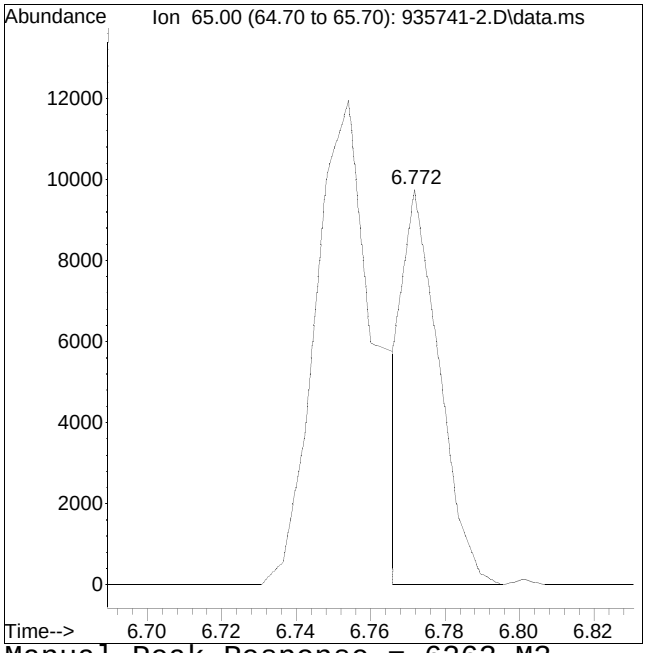


Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : 935741-2.D Operator : SV106:sz
Date Inj'd : 6/19/2024 10:26 am Instrument : SV 106
Sample : WG1935741-2,32,,gmr Quant Date : 6/19/2024 1:46 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 13435 Manual Peak Response = 6263 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-3.D
Acq On : 16 Jun 2024 4:18 pm
Operator : SV106:sz
Sample : WG1934854-3,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 08:33:05 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.972	152	79339	4.000	ug/ml		0.00
Standard Area 1 = 78956			Recovery = 100.49%				
27) IS2_1,4-Dichlorobenzen...	4.972	152	79339	4.000	ug/ml		0.00
Standard Area 3 = 62712			Recovery = 126.51%				
32) IS3_1,4-Dichlorobenzen...	4.972	152	79339	4.000	ug/ml		0.00
Standard Area 2 = 63834			Recovery = 124.29%				
34) IS1_Naphthalene-d8	6.689	136	289916	4.000	ug/ml	#	0.00
Standard Area 1 = 280857			Recovery = 103.23%				
54) IS2_Naphthalene-d8	6.689	136	289916	4.000	ug/ml	#	0.00
Standard Area 3 = 224940			Recovery = 128.89%				
62) IS1_Acenaphthene-d10	8.472	164	189846	4.000	ug/ml		0.00
Standard Area 1 = 178144			Recovery = 106.57%				
82) IS2_Acenaphthene-d10	8.472	164	189846	4.000	ug/ml		0.00
Standard Area 3 = 142327			Recovery = 133.39%				
85) IS3_Acenaphthene-d10	8.472	164	189846	4.000	ug/ml		0.00
Standard Area 2 = 144241			Recovery = 131.62%				
87) IS1_Phenanthrene-d10	9.872	188	407131	4.000	ug/ml		0.00
Standard Area 1 = 382454			Recovery = 106.45%				
99) IS3_Phenanthrene-d10	9.872	188	407131	4.000	ug/ml		0.00
Standard Area 2 = 315611			Recovery = 129.00%				
103) IS1_Chrysene-d12	12.366	240	366643	4.000	ug/ml		0.00
Standard Area 1 = 352521			Recovery = 104.01%				
112) IS1_Perylene-d12	13.701	264	403249	4.000	ug/ml		0.00
Standard Area 1 = 391116			Recovery = 103.10%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.084	112	21683	0.967	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 48.35%				
7) Phenol-d6	4.548	99	22636	0.781	ug/ml		0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 39.05%				
19) Nitrobenzene-d5	5.848	82	22248	0.717	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.70%				
45) 2-Fluorobiphenyl	7.872	172	42313	0.629	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.90%				
78) 2,4,6-Tribromophenol	9.230	330	15422	1.527	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 76.35%				

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-3.D
Acq On : 16 Jun 2024 4:18 pm
Operator : SV106:sz
Sample : WG1934854-3,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 08:33:05 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.442	244	58869	0.671	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 67.10%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.566	128	33895	1.390	ug/ml	95
8) Phenol	4.572	94	22245	0.721	ug/ml#	65
14) Bis(2-chloroisopropyl)...	5.578	45	44673	1.240	ug/ml#	81
15) 2-Methylphenol	5.607	108	28886	1.315	ug/ml	99
17) n-Nitrosodi-n-propylamine	5.754	70	27759	1.353	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.842	108	28361	1.188	ug/ml	94
20) Nitrobenzene	5.872	77	41802	1.400	ug/ml#	91
21) Isophorone	6.213	82	72068	1.361	ug/ml#	93
22) 2-Nitrophenol	6.284	139	20677	1.675	ug/ml#	92
23) 2,4-Dimethylphenol	6.466	107	32044	1.281	ug/ml	94
24) Bis(2-chloroethoxy)met...	6.554	93	46012	1.385	ug/ml#	97
25) 2,4-Dichlorophenol	6.595	162	33218	1.457	ug/ml	96
28) Benzaldehyde	3.895	105	28868	1.329	ug/ml	97
29) Acetophenone	5.672	105	54381	1.384	ug/ml#	84
37) 4-Chloroaniline	6.842	65	13708	1.183	ug/ml	96
39) p-Chloro-m-cresol	7.431	107	33292	1.405	ug/ml	96
42) Hexachlorocyclopentadiene	7.654	237	15282	0.772	ug/ml	97
43) 2,4,6-Trichlorophenol	7.789	196	29702	1.543	ug/ml	94
44) 2,4,5-Trichlorophenol	7.813	196	30268	1.444	ug/ml	98
47) 2-Nitroaniline	8.078	138	24111	1.546	ug/ml	98
50) Dimethyl phthalate	8.307	163	97958	1.376	ug/ml#	98
52) 2,6-Dinitrotoluene	8.336	165	20562	1.439	ug/ml#	85
59) Caprolactam	7.172	55	6003	0.471	ug/ml#	77
60) 1,2,4,5-Tetrachloroben...	7.642	216	33431	1.001	ug/ml	96
61) Biphenyl	7.954	154	80122	1.227	ug/ml	98
63) 3-Nitroaniline	8.478	138	21744	1.565	ug/ml#	84
65) 2,4-Dinitrophenol	8.583	184	13182	1.744	ug/ml	92
66) Dibenzofuran	8.672	168	104834	1.274	ug/ml	97
67) 2,4-Dinitrotoluene	8.713	165	28154	1.489	ug/ml	95
68) 4-Nitrophenol	8.719	65	13959	0.936	ug/ml#	83
71) Diethyl phthalate	9.001	149	107050	1.563	ug/ml	99
73) 4-Chlorophenyl phenyl ...	9.048	204	42188	1.240	ug/ml	96
74) 4-Nitroaniline	9.054	138	22372	1.643	ug/ml#	80

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-3.D
Acq On : 16 Jun 2024 4:18 pm
Operator : SV106:sz
Sample : WG1934854-3,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 08:33:05 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240616aRVT\ABN0616.D
: 2 - I:\8270\SV106\240616aRVT\ADP0616.D
: 3 - I:\8270\SV106\240616aRVT\AP90616.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.095	198	18393	1.727	ug/ml#	70
76)	NDPA/DPA	9.166	169	75204	1.412	ug/ml	96
79)	4-Bromophenyl phenyl e...	9.501	248	26864	1.325	ug/ml	93
86)	Atrazine	9.725	200	31682	1.657	ug/ml#	79
90)	Carbazole	10.124	167	136121	1.496	ug/ml	99
91)	Di-n-butylphthalate	10.572	149	181609	1.638	ug/ml	99
96)	Butyl benzyl phthalate	11.971	149	87589	1.857	ug/ml	91
105)	3,3'-Dichlorobenzidine	12.395	252	66222	1.621	ug/ml	96
107)	Bis(2-ethylhexyl)phtha...	12.583	149	124136	1.765	ug/ml#	89
108)	Di-n-octylphthalate	13.207	149	205312	1.782	ug/ml#	72

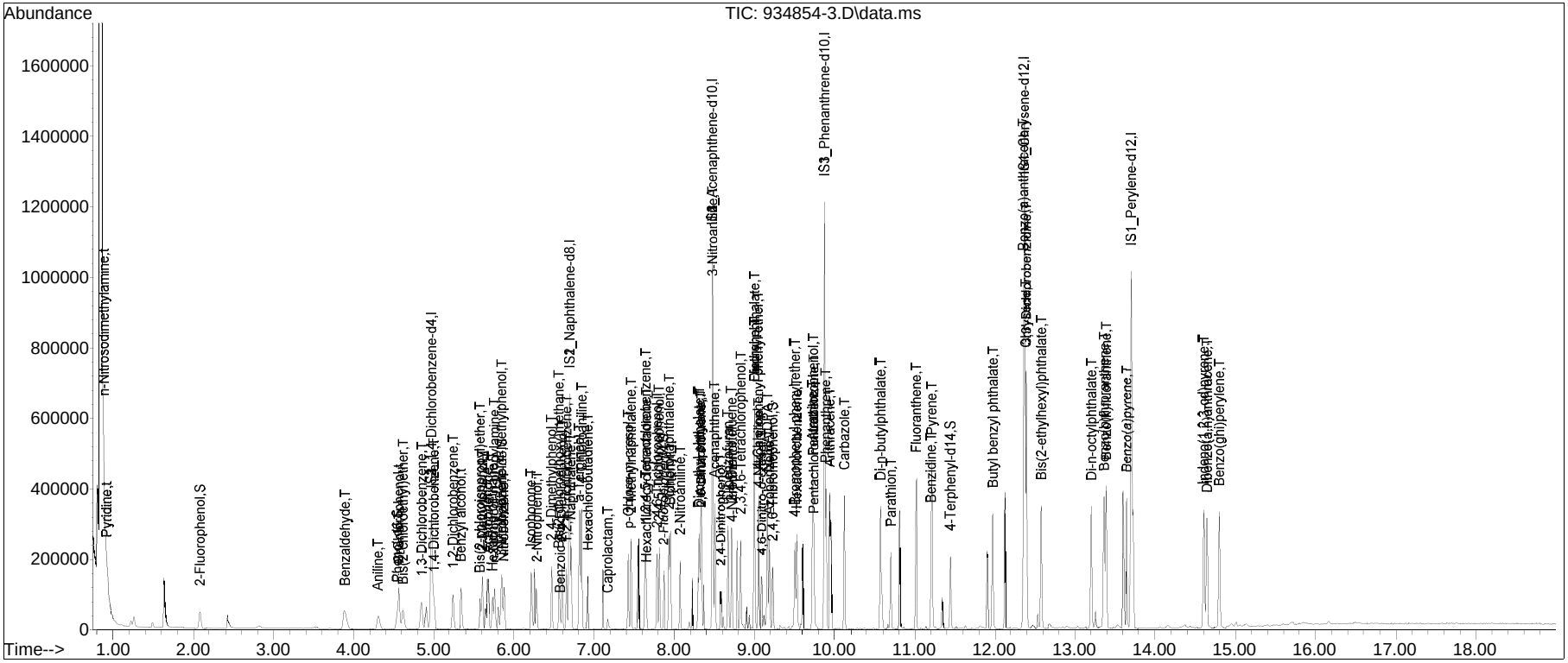
(#) = qualifier out of range (m) = manual integration (+) = signals summed

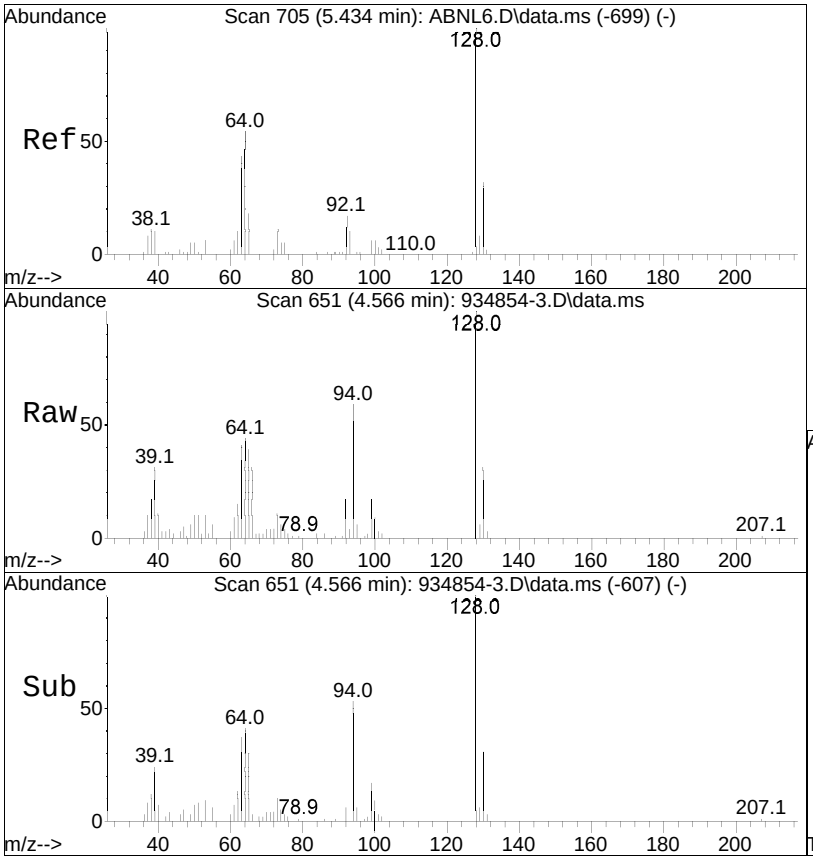
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240616aRVT\
Data File : 934854-3.D
Acq On : 16 Jun 2024 4:18 pm
Operator : SV106:sz
Sample : WG1934854-3,32,,cmm
Misc : wg1934989,WG1934854,ical21056
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 17 08:33:05 2024
Quant Method : I:\8270\sv106\240616aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 08:24:54 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90616.D•

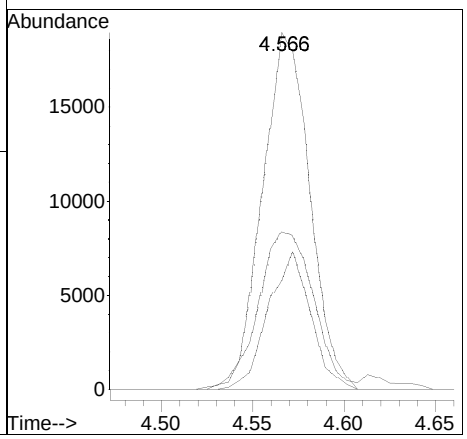


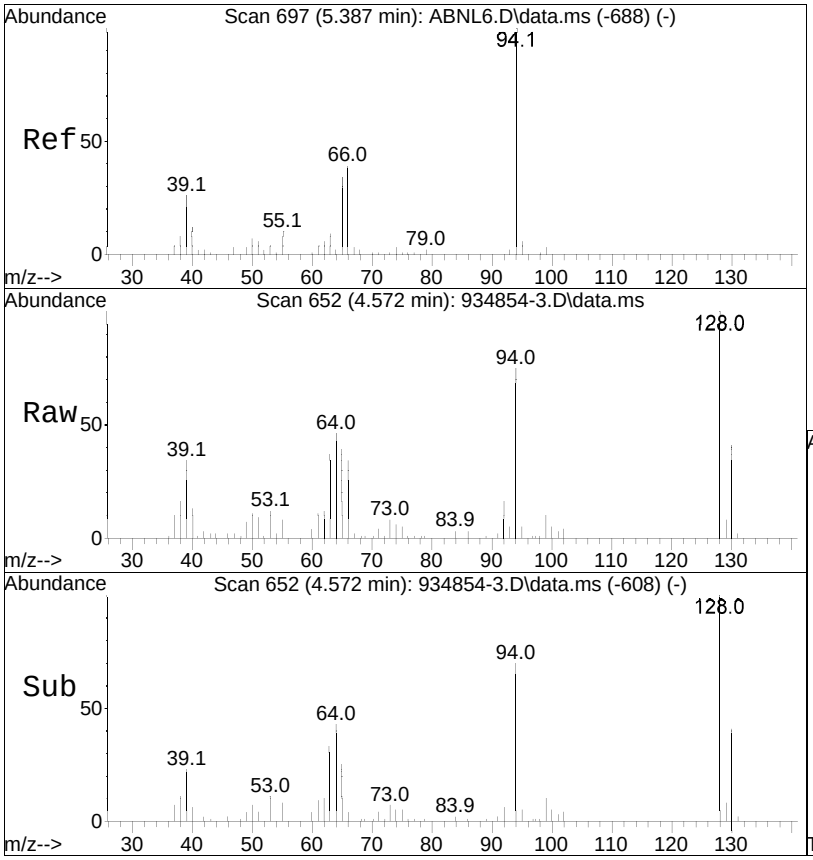


#6
2-Chlorophenol
Concen: 1.39 ug/ml
RT: 4.566 min Scan# 651
Delta R.T. 0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:128 Resp: 33895

Ion	Ratio	Lower	Upper
128	100		
64	51.9	45.1	67.7
130	34.7	26.2	39.4

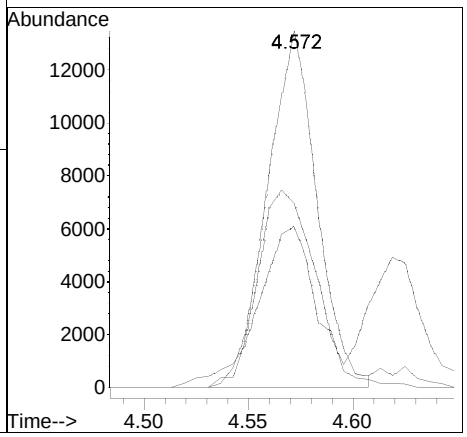


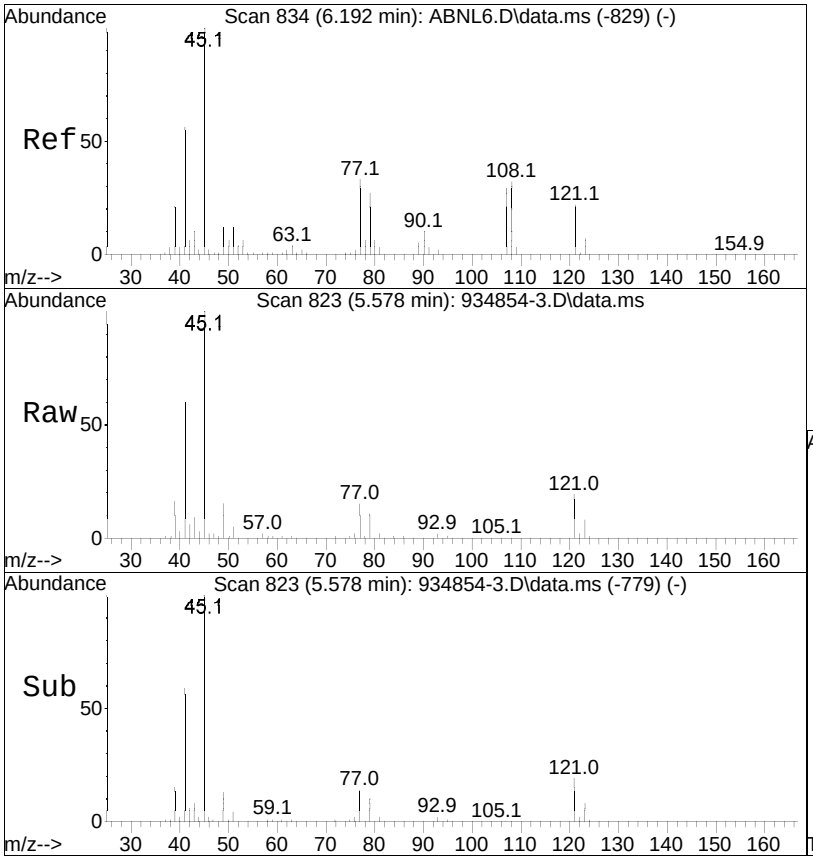


#8
Phenol
Concen: 0.72 ug/ml
RT: 4.572 min Scan# 652
Delta R.T. 0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 94 Resp: 22245

Ion	Ratio	Lower	Upper
94	100		
65	63.5	26.0	39.0#
66	54.6	33.8	50.8#

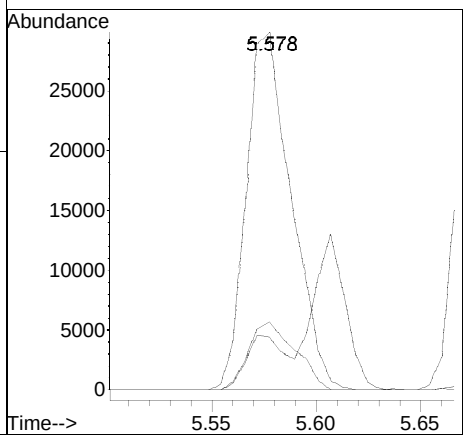


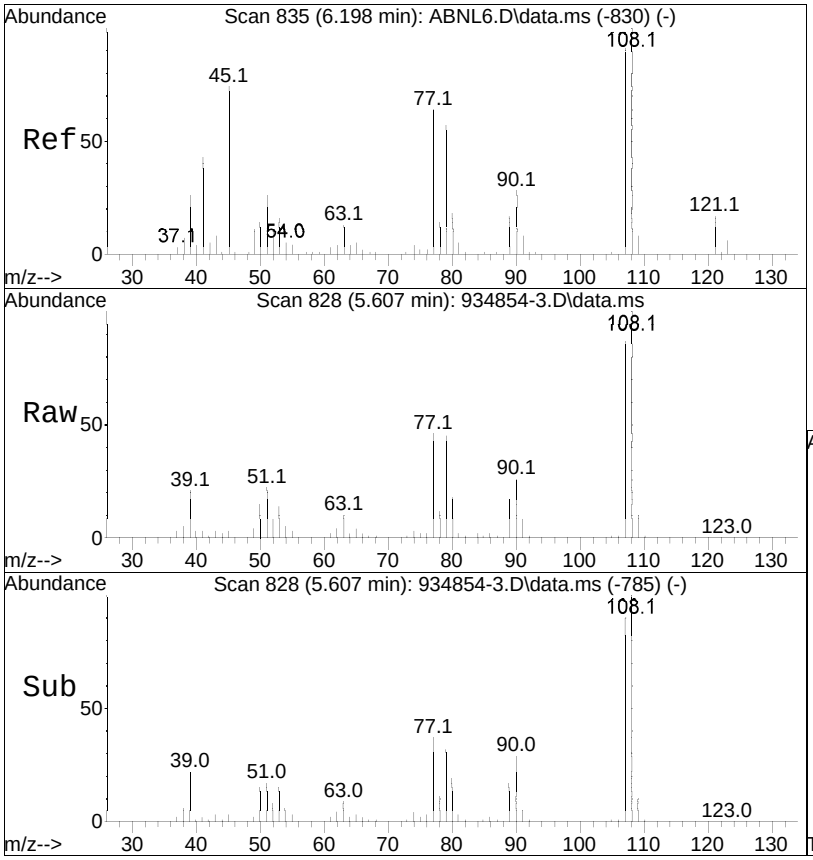


#14
Bis(2-chloroisopropyl)ether
Concen: 1.24 ug/ml
RT: 5.578 min Scan# 823
Delta R.T. 0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 45 Resp: 44673

Ion	Ratio	Lower	Upper
45	100		
121	19.7	9.8	14.6#
77	13.8	6.1	9.1#

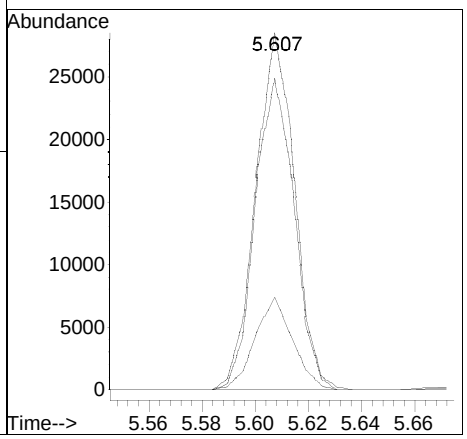


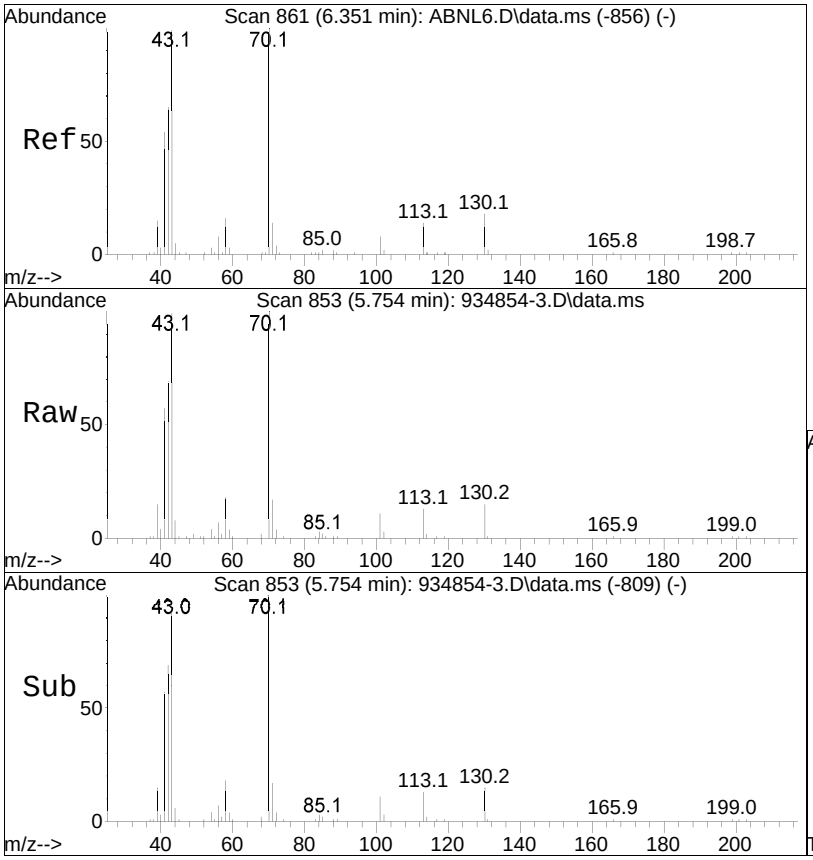


#15
2-Methylphenol
Concen: 1.31 ug/ml
RT: 5.607 min Scan# 828
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:108 Resp: 28886

Ion	Ratio	Lower	Upper
108	100		
107	87.8	70.7	106.1
90	25.2	18.7	28.1

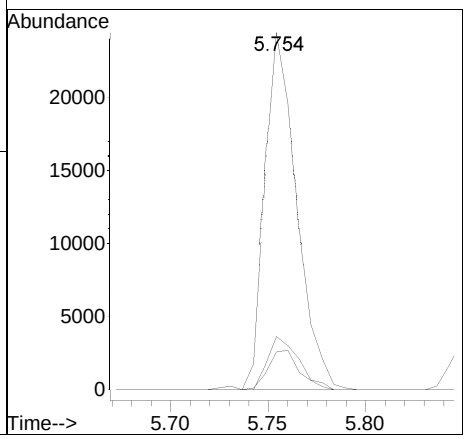


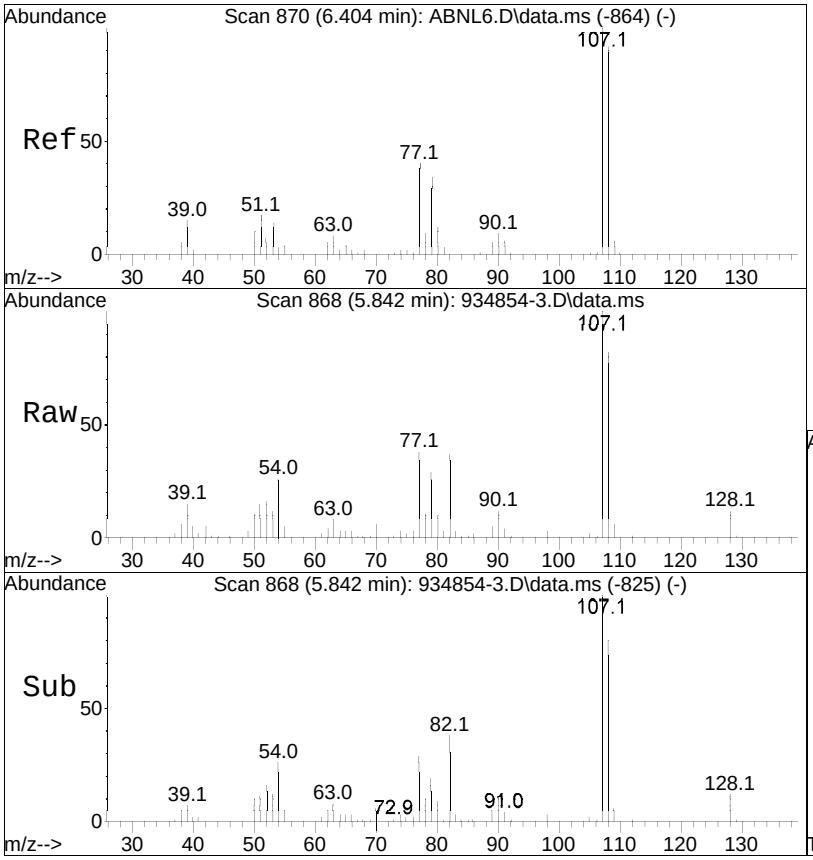


#17
n-Nitrosodi-n-propylamine
Concen: 1.35 ug/ml
RT: 5.754 min Scan# 853
Delta R.T. 0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 70 Resp: 27759

Ion	Ratio	Lower	Upper
70	100		
130	14.5	18.2	27.4#
101	10.7	7.8	11.8

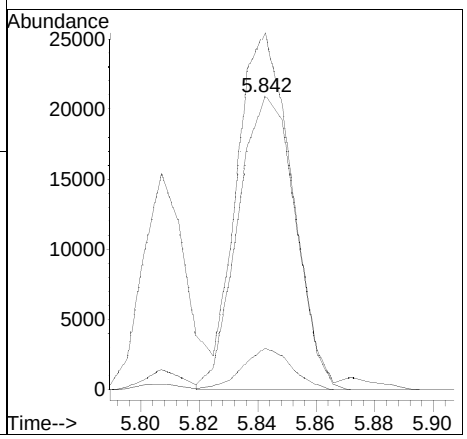


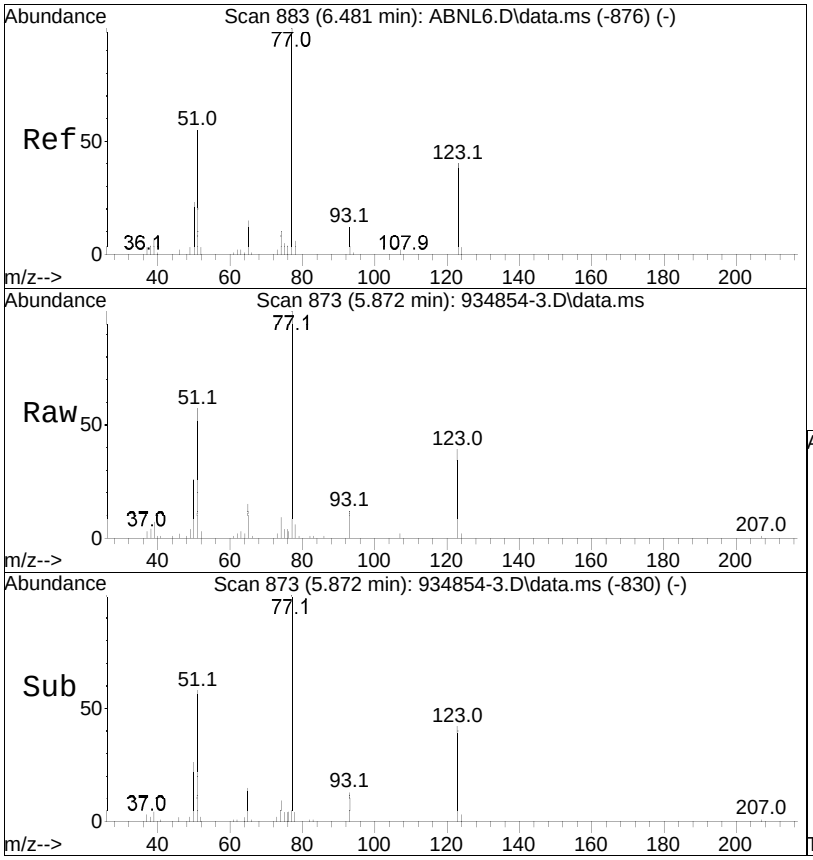


#18
3-Methylphenol/4-Methylphenol
Concen: 1.19 ug/ml
RT: 5.842 min Scan# 868
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:108 Resp: 28361

Ion	Ratio	Lower	Upper
108	100		
107	117.5	88.6	132.8
90	12.2	8.8	13.2

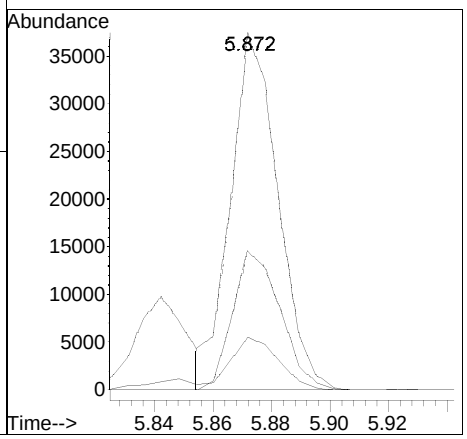


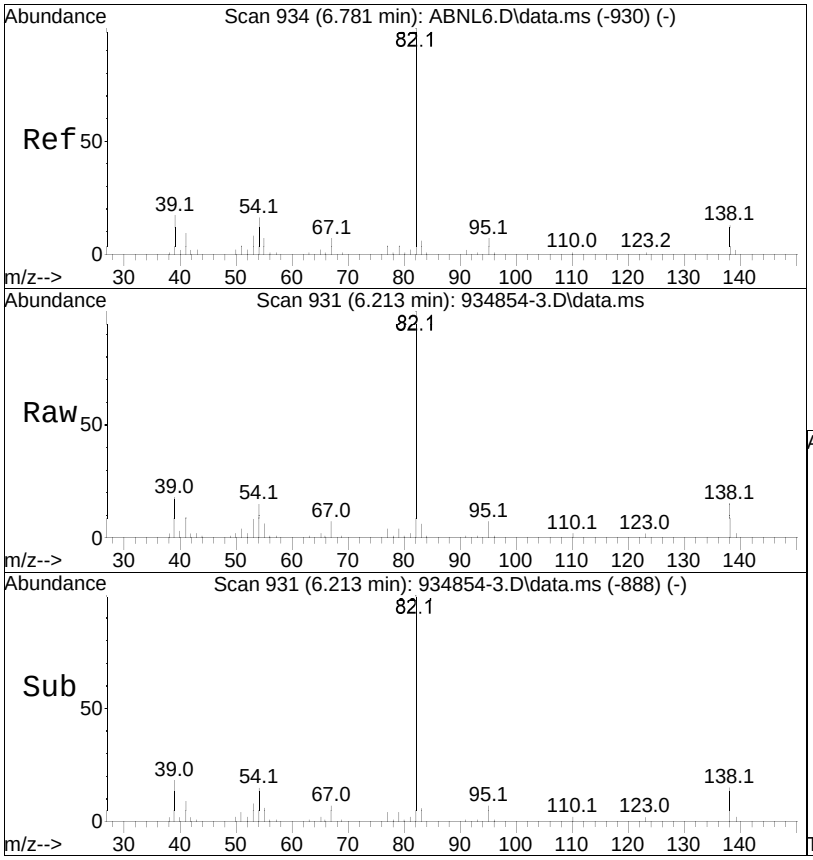


#20
Nitrobenzene
Concen: 1.40 ug/ml
RT: 5.872 min Scan# 873
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 77 Resp: 41802

Ion	Ratio	Lower	Upper
77	100		
123	39.4	36.3	54.5
65	18.0	11.6	17.4#

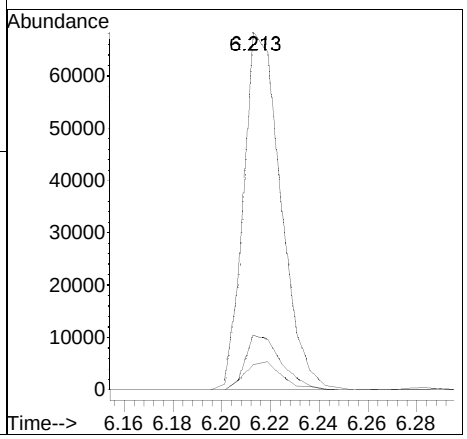


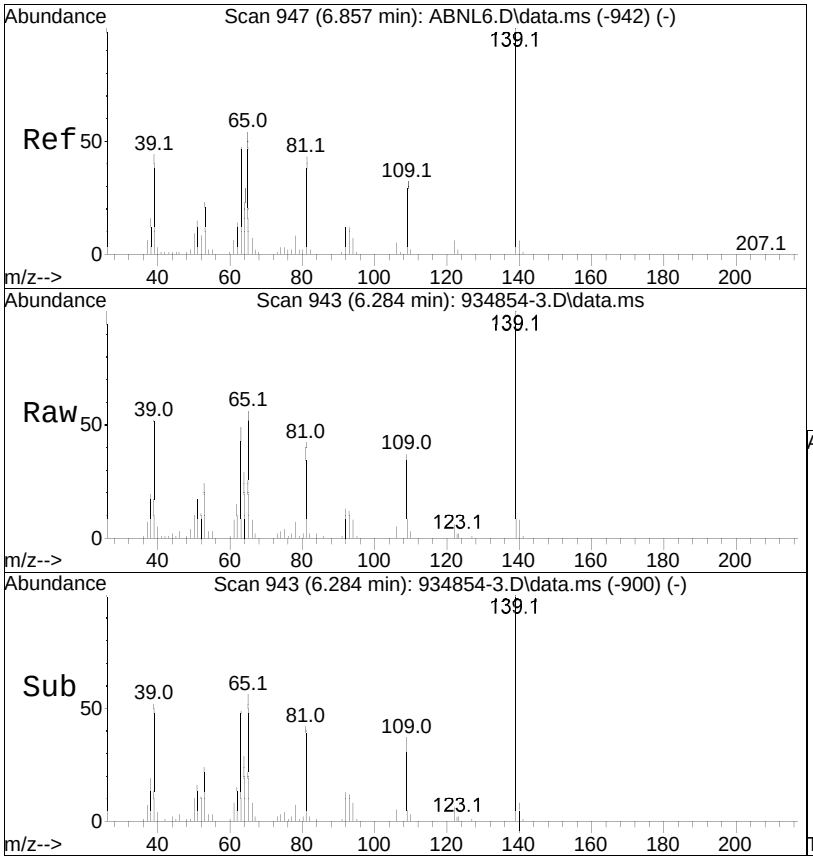


#21
Isophorone
Concen: 1.36 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 82 Resp: 72068

Ion	Ratio	Lower	Upper
82	100		
138	14.9	14.7	22.1
95	7.9	5.2	7.8#

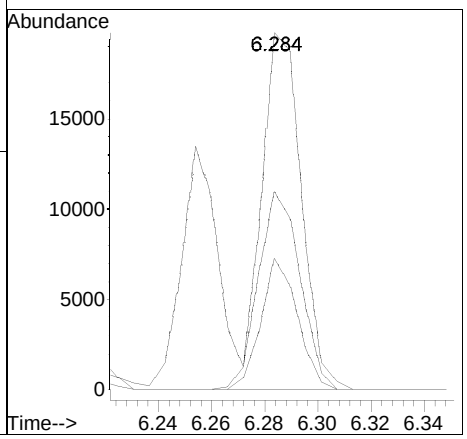


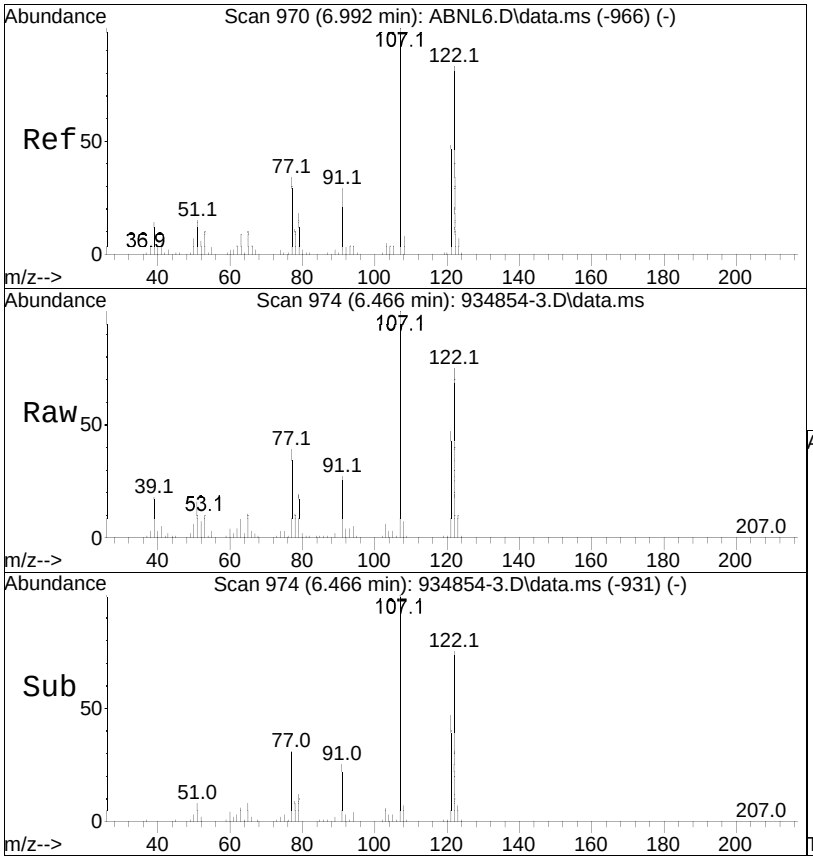


#22
2-Nitrophenol
Concen: 1.68 ug/ml
RT: 6.284 min Scan# 943
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:139 Resp: 20677

Ion	Ratio	Lower	Upper
139	100		
109	33.5	19.4	29.0#
65	55.3	46.1	69.1

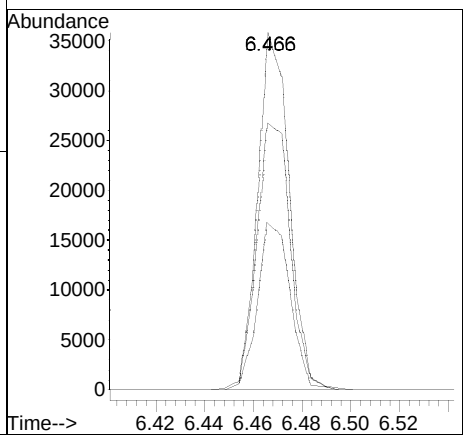


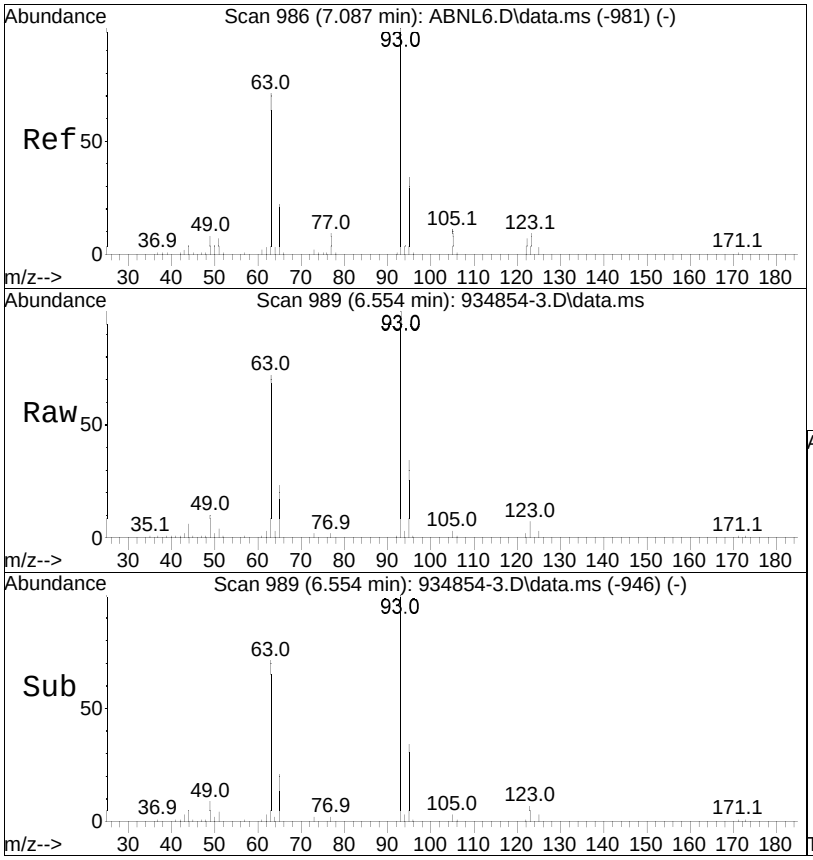


#23
2,4-Dimethylphenol
Concen: 1.28 ug/ml
RT: 6.466 min Scan# 974
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:107 Resp: 32044

Ion	Ratio	Lower	Upper
107	100		
121	48.9	40.0	60.0
122	79.2	70.2	105.4

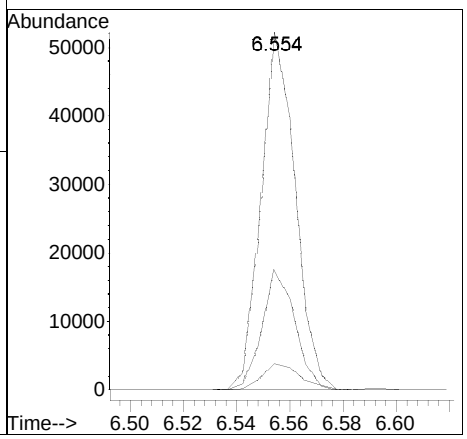


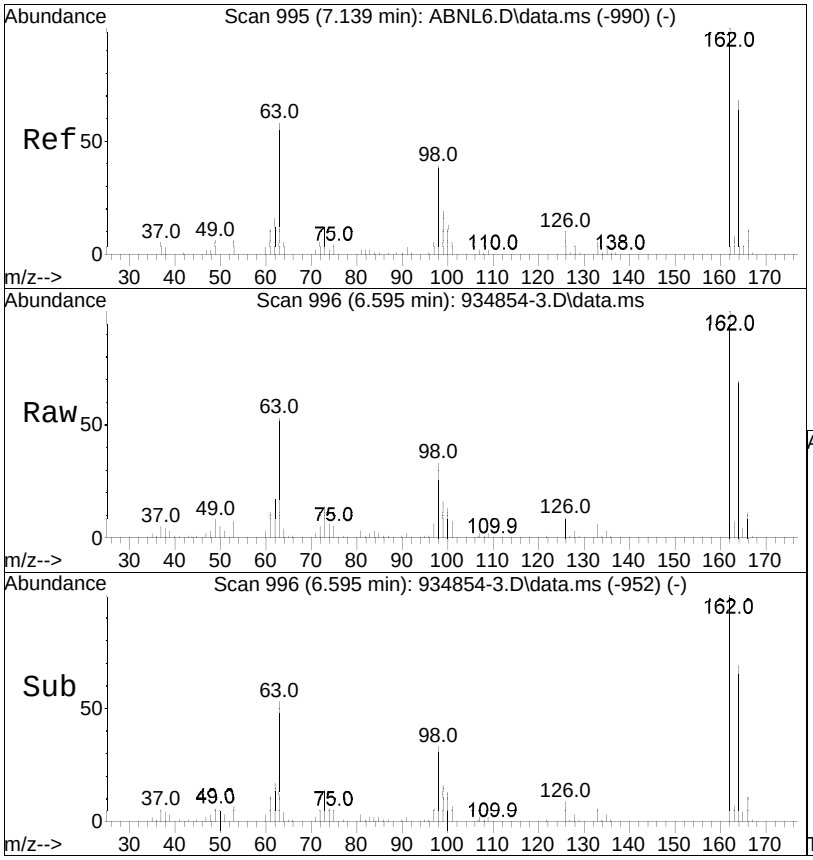


#24
Bis(2-chloroethoxy)methane
Concen: 1.38 ug/ml
RT: 6.554 min Scan# 989
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 93 Resp: 46012

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	8.6	10.1	15.1#

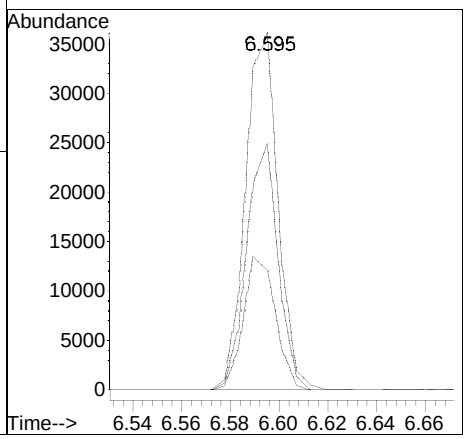


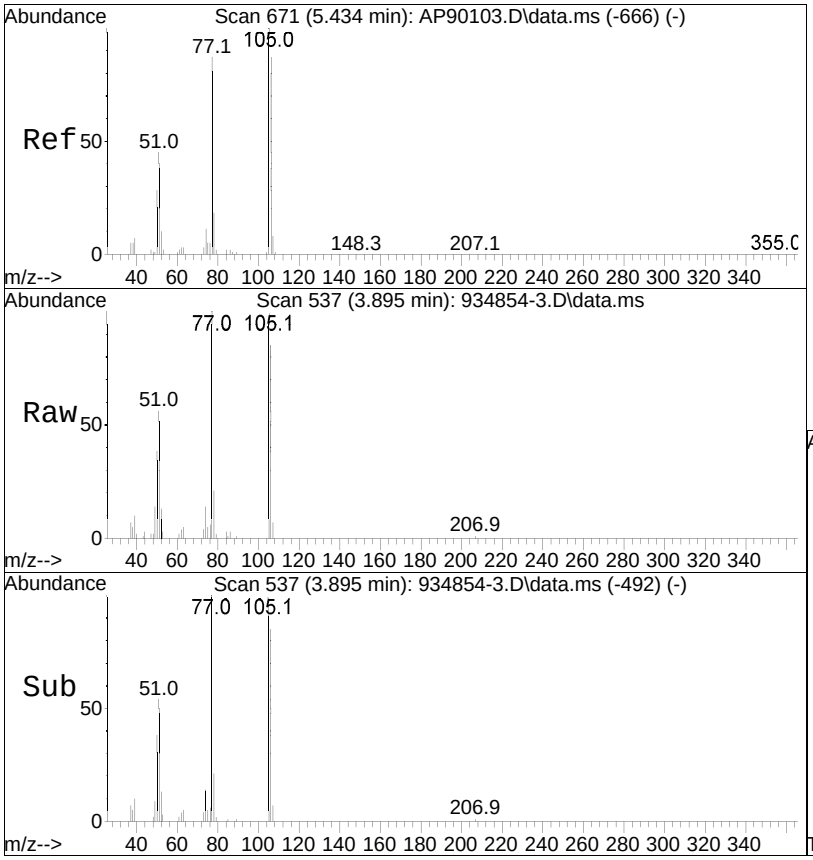


#25
2,4-Dichlorophenol
Concen: 1.46 ug/ml
RT: 6.595 min Scan# 996
Delta R.T. 0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:162 Resp: 33218

Ion	Ratio	Lower	Upper
162	100		
164	66.8	51.0	76.4
98	37.0	32.2	48.2

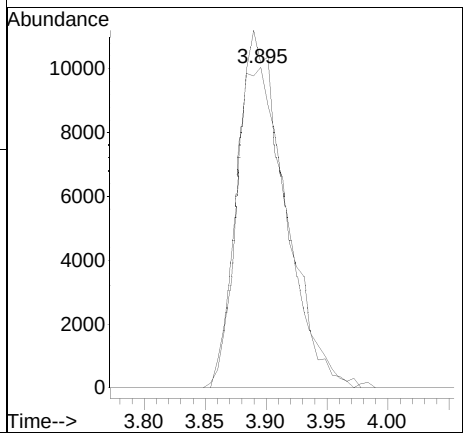


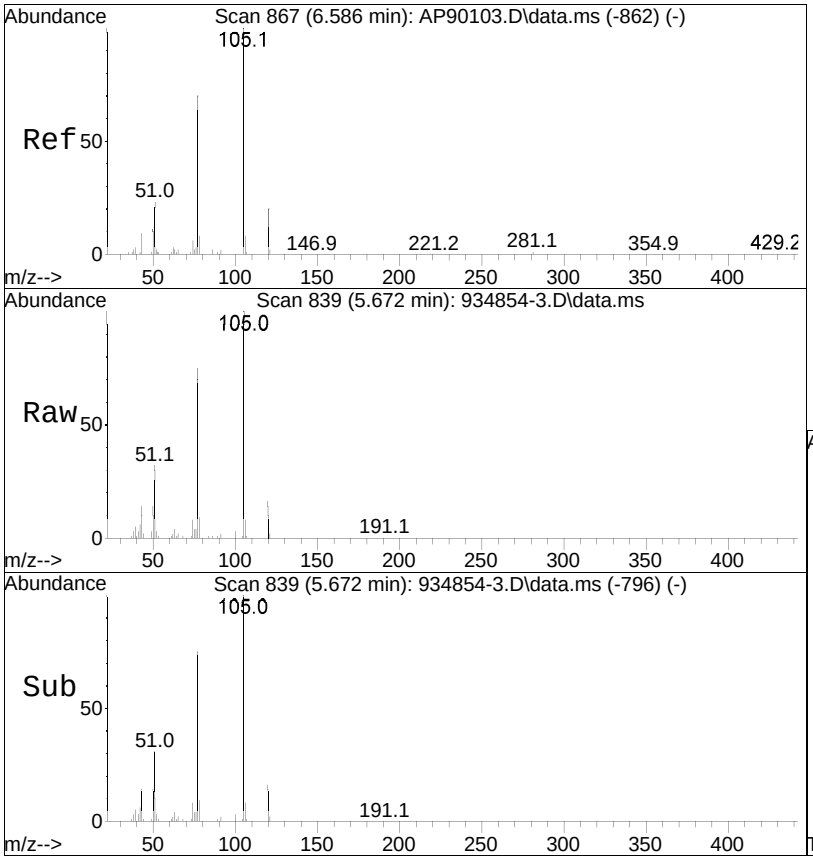


#28
Benzaldehyde
Concen: 1.33 ug/ml
RT: 3.895 min Scan# 537
Delta R.T. 0.012 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:105 Resp: 28868

Ion	Ratio	Lower	Upper
105	100		
77	105.8	82.2	123.4

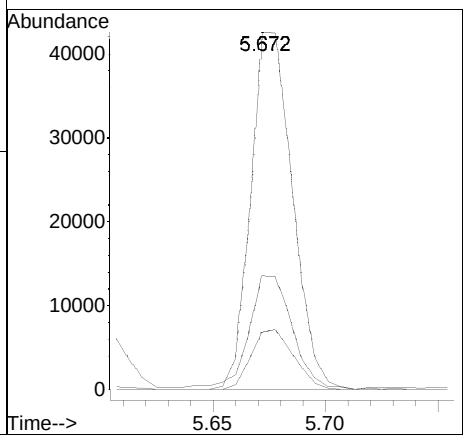


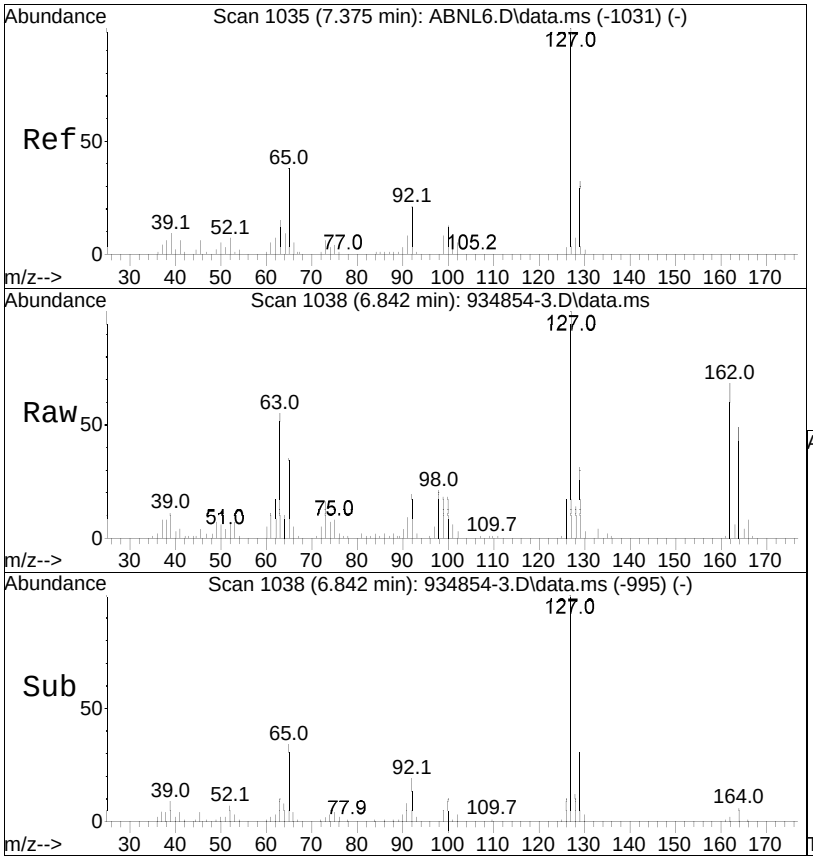


#29
Acetophenone
Concen: 1.38 ug/ml
RT: 5.672 min Scan# 839
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:105 Resp: 54381

Ion	Ratio	Lower	Upper
105	100		
120	17.2	20.5	30.7#
51	33.8	34.9	52.3#

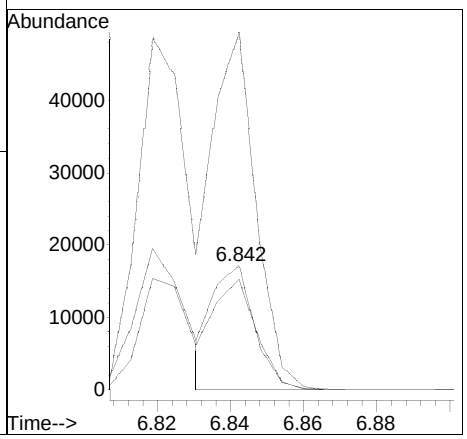


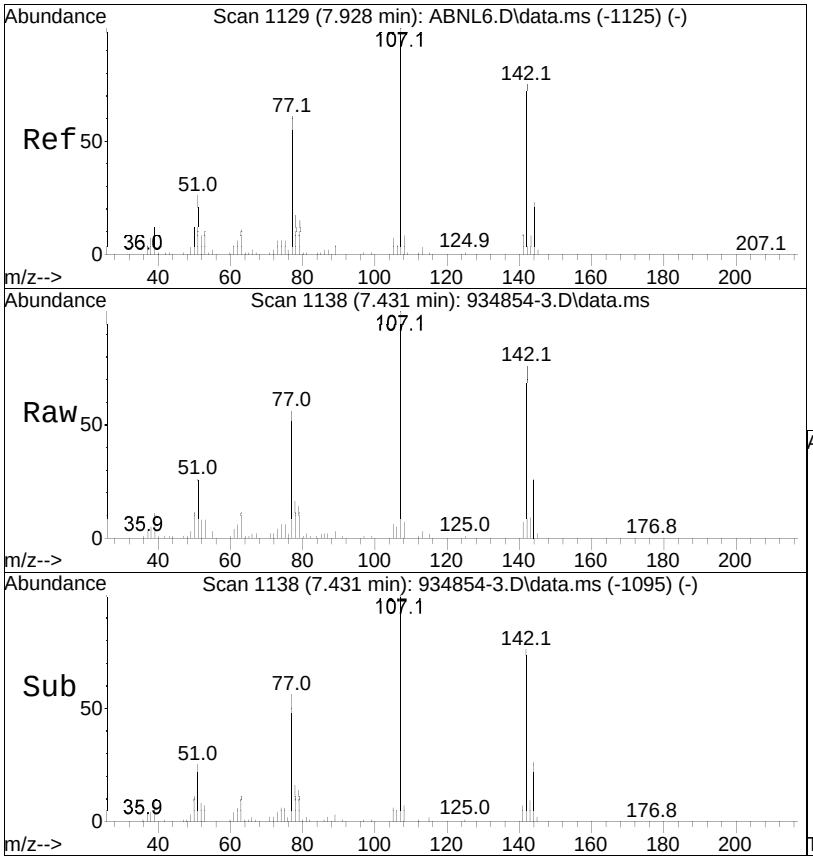


#37
4-Chloroaniline
Concen: 1.18 ug/ml
RT: 6.842 min Scan# 1038
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 65 Resp: 13708

Ion	Ratio	Lower	Upper
65	100		
127	290.4	237.6	356.4
129	90.5	76.3	114.5

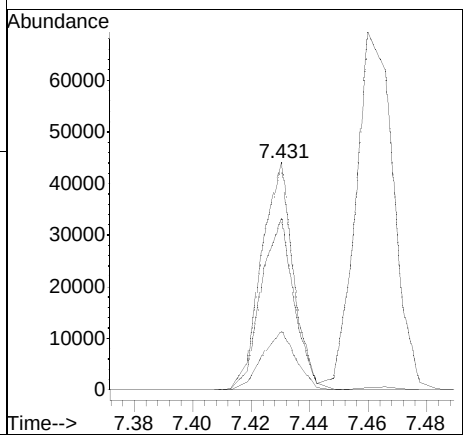


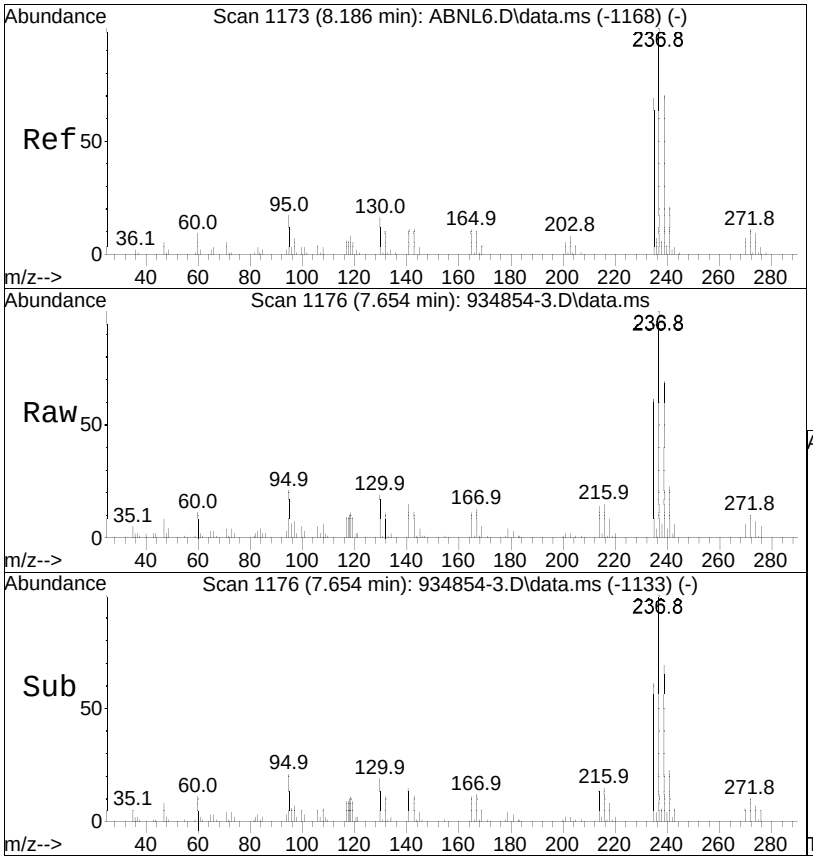


#39
p-Chloro-m-cresol
Concen: 1.41 ug/ml
RT: 7.431 min Scan# 1138
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:107 Resp: 33292

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	77.9	66.1	99.1

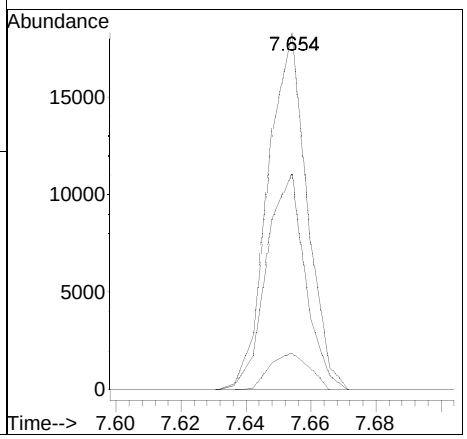


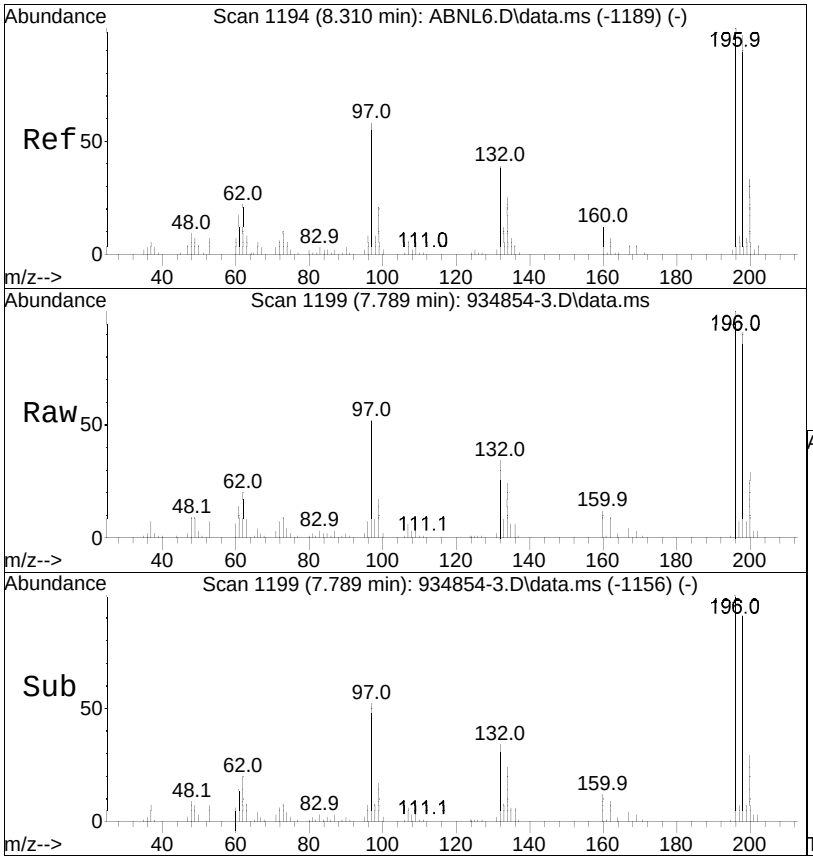


#42
Hexachlorocyclopentadiene
Concen: 0.77 ug/ml
RT: 7.654 min Scan# 1176
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:237 Resp: 15282

Ion	Ratio	Lower	Upper
237	100		
235	60.4	49.7	74.5
272	10.5	9.8	14.6

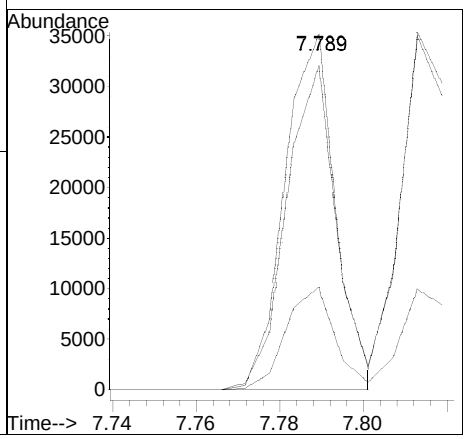


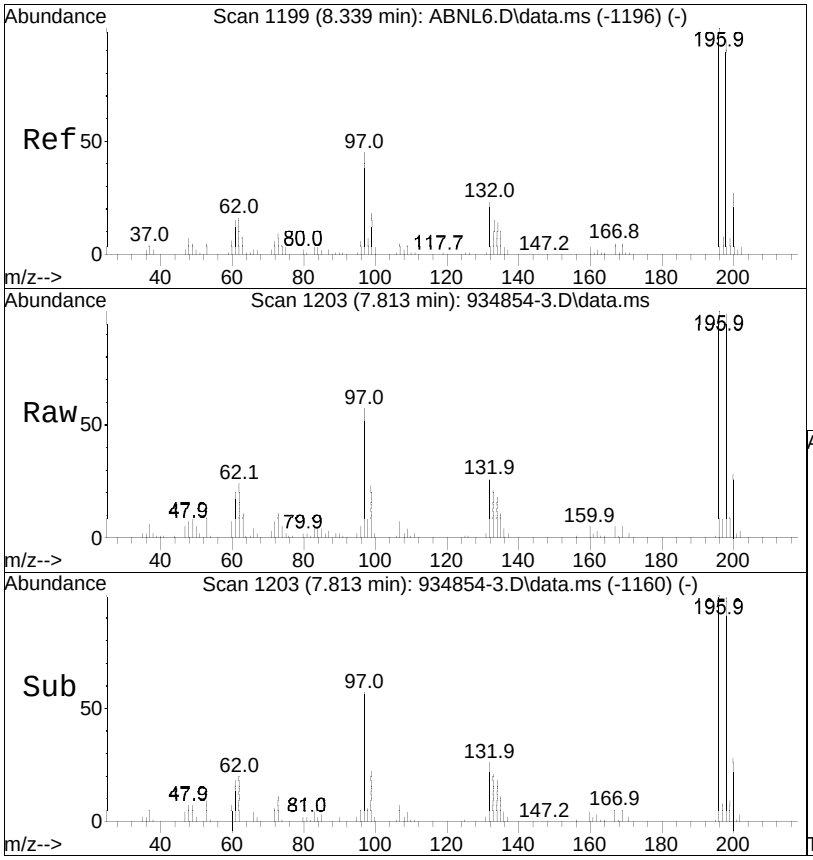


#43
2,4,6-Trichlorophenol
Concen: 1.54 ug/ml
RT: 7.789 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:196 Resp: 29702

Ion	Ratio	Lower	Upper
196	100		
198	89.5	77.5	116.3
200	28.1	23.8	35.6

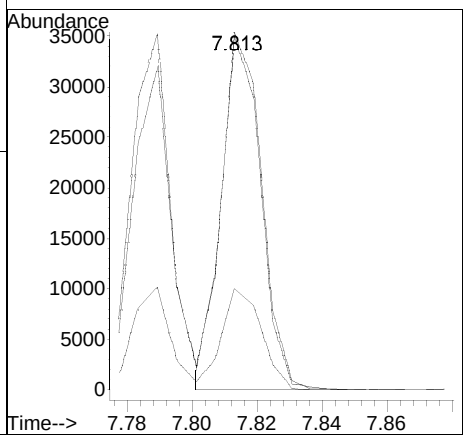


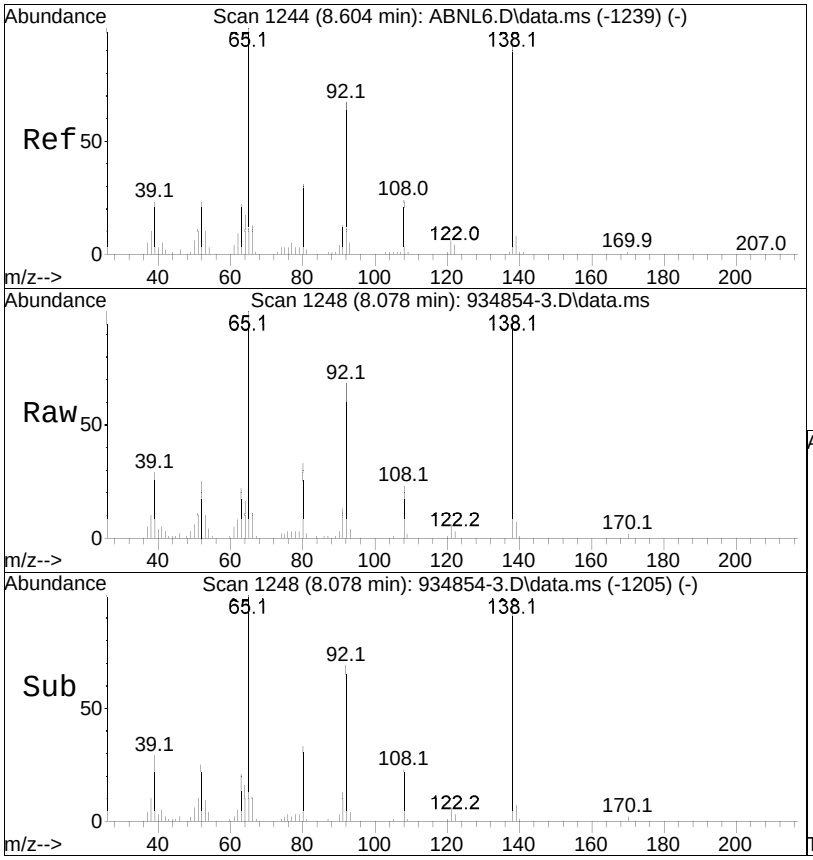


#44
2,4,5-Trichlorophenol
Concen: 1.44 ug/ml
RT: 7.813 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:196 Resp: 30268

Ion	Ratio	Lower	Upper
196	100		
200	28.1	25.4	38.0
198	96.9	78.0	117.0

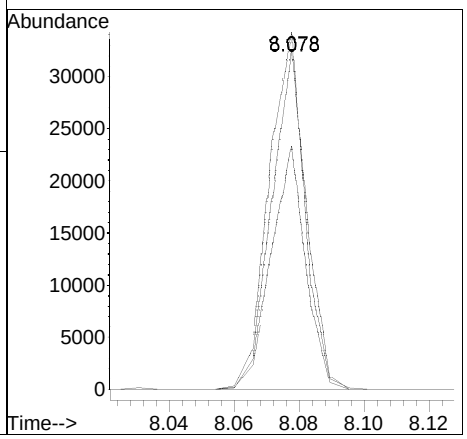


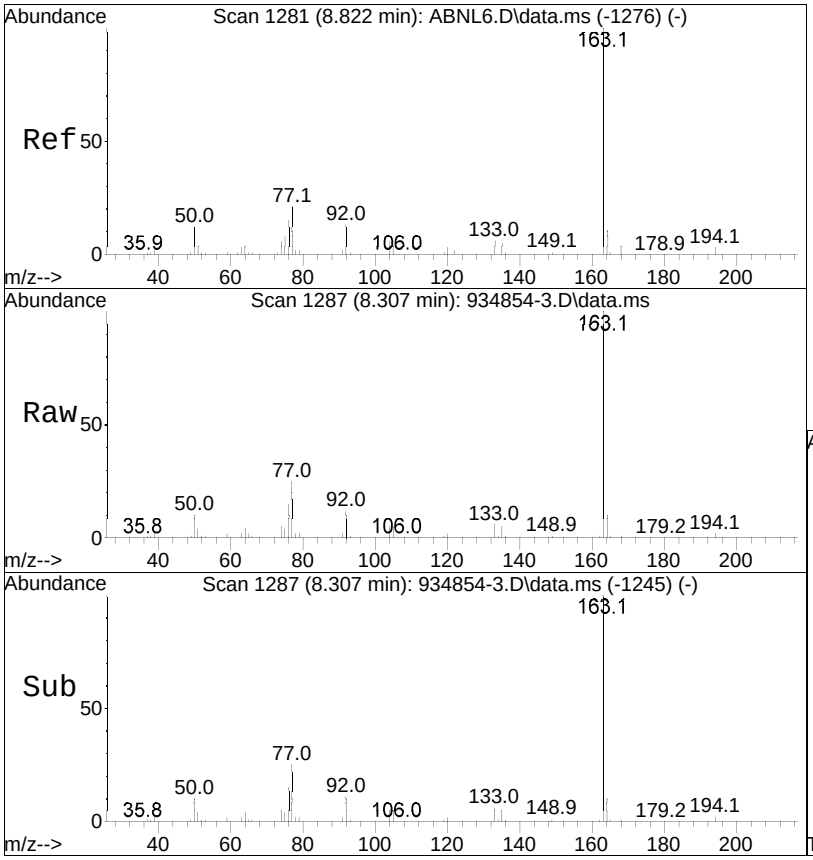


#47
2-Nitroaniline
Concen: 1.55 ug/ml
RT: 8.078 min Scan# 1248
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:138 Resp: 24111

Ion	Ratio	Lower	Upper
138	100		
92	70.9	53.5	80.3
65	107.3	86.3	129.5

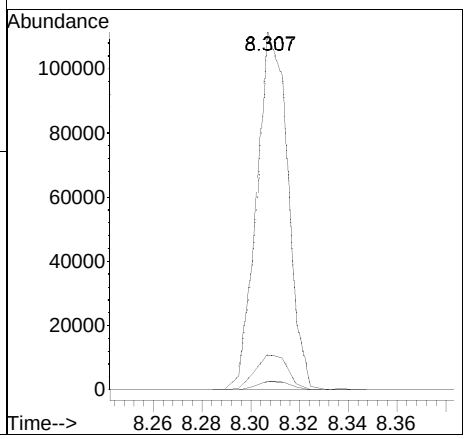


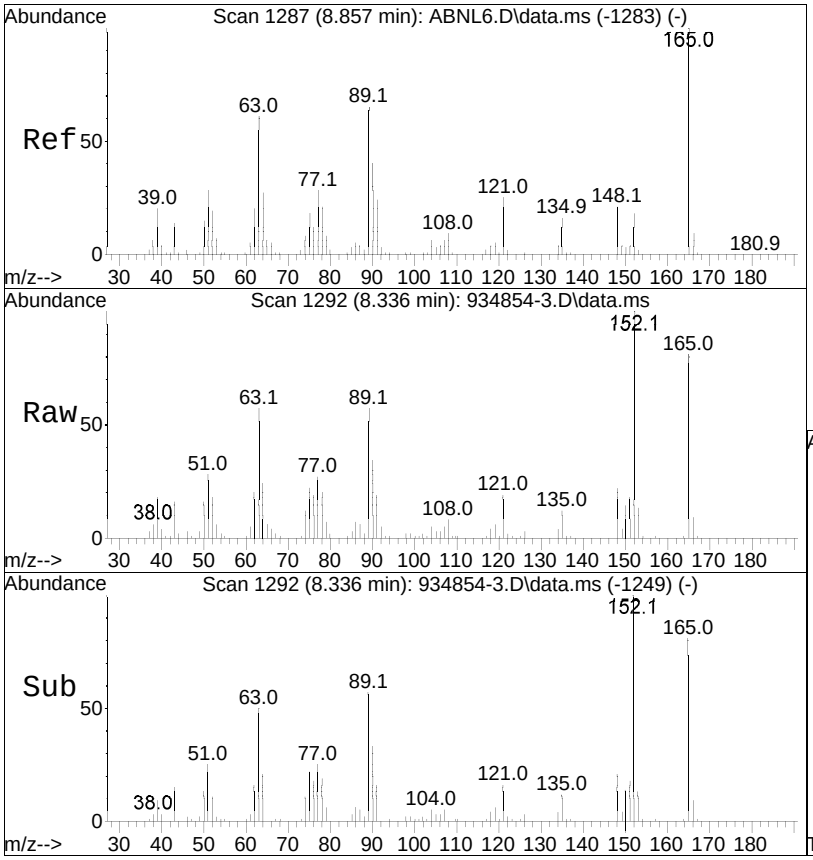


#50
Dimethyl phthalate
Concen: 1.38 ug/ml
RT: 8.307 min Scan# 1287
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:163 Resp: 97958

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	10.3	7.9	11.9

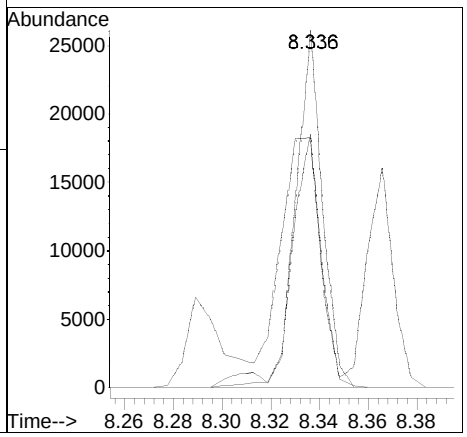


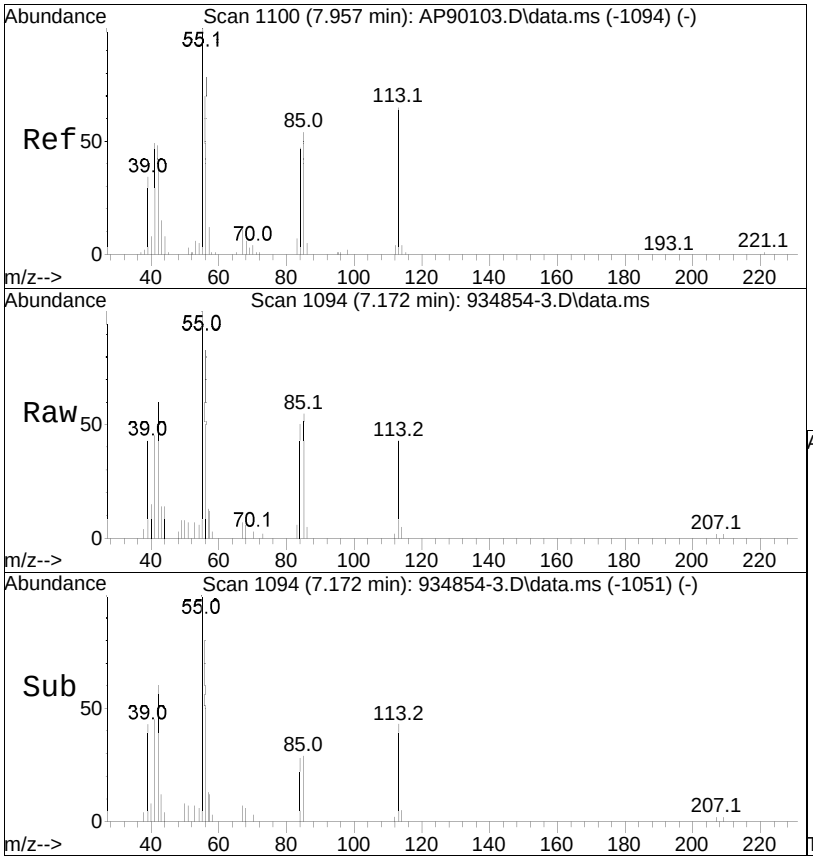


#52
2,6-Dinitrotoluene
Concen: 1.44 ug/ml
RT: 8.336 min Scan# 1292
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:165 Resp: 20562

Ion	Ratio	Lower	Upper
165	100		
89	73.2	54.2	81.2
63	100.0	64.2	96.2#

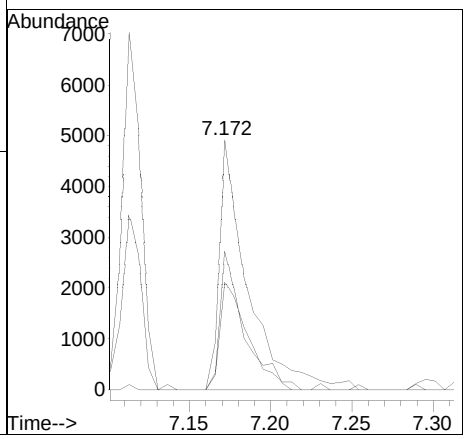


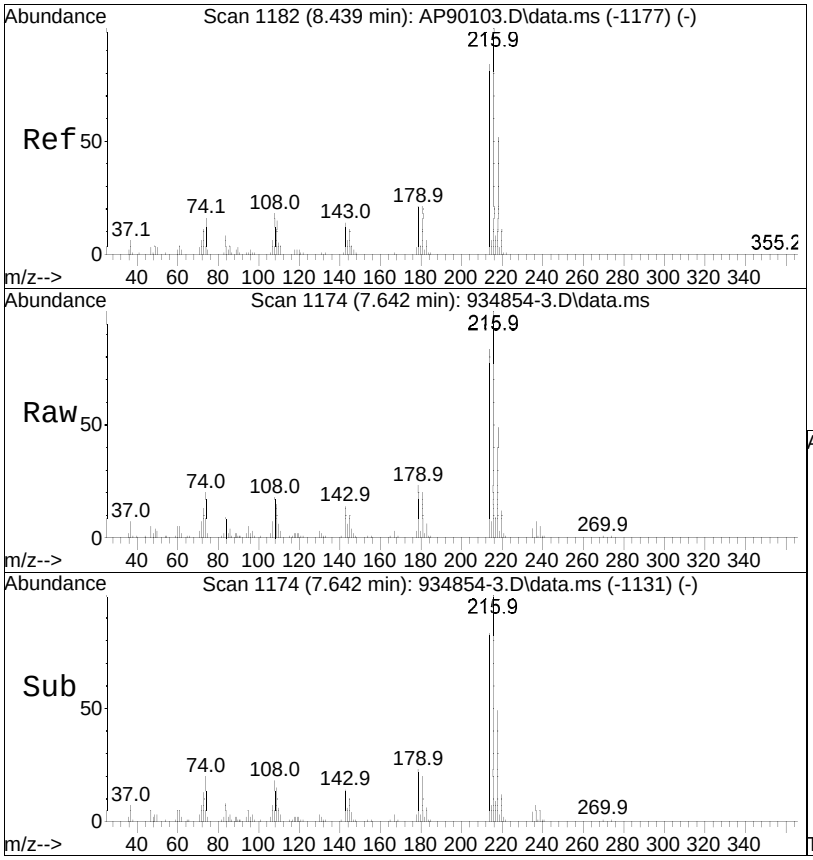


#59
Caprolactam
Concen: 0.47 ug/ml
RT: 7.172 min Scan# 1094
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 55 Resp: 6003

Ion	Ratio	Lower	Upper
55	100		
85	46.3	19.8	29.6#
113	43.1	29.6	44.4

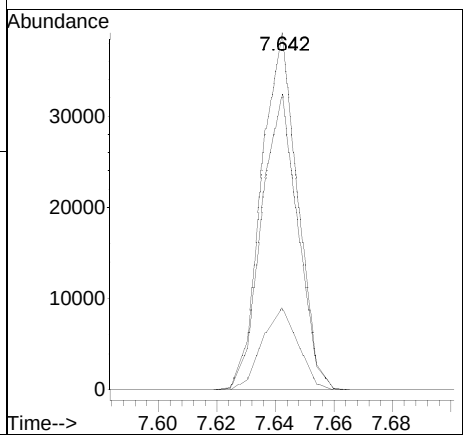


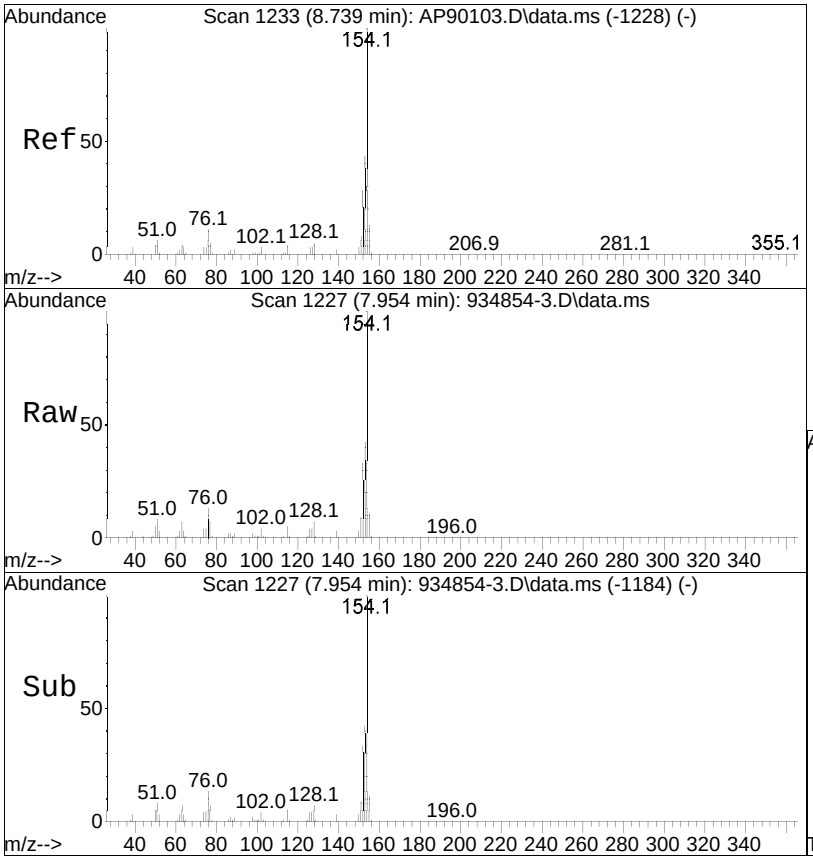


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.00 ug/ml
RT: 7.642 min Scan# 1174
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:216 Resp: 33431

Ion	Ratio	Lower	Upper
216	100		
214	83.6	63.7	95.5
179	22.9	19.0	28.6

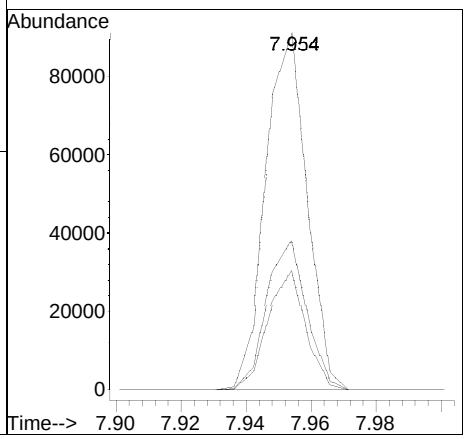


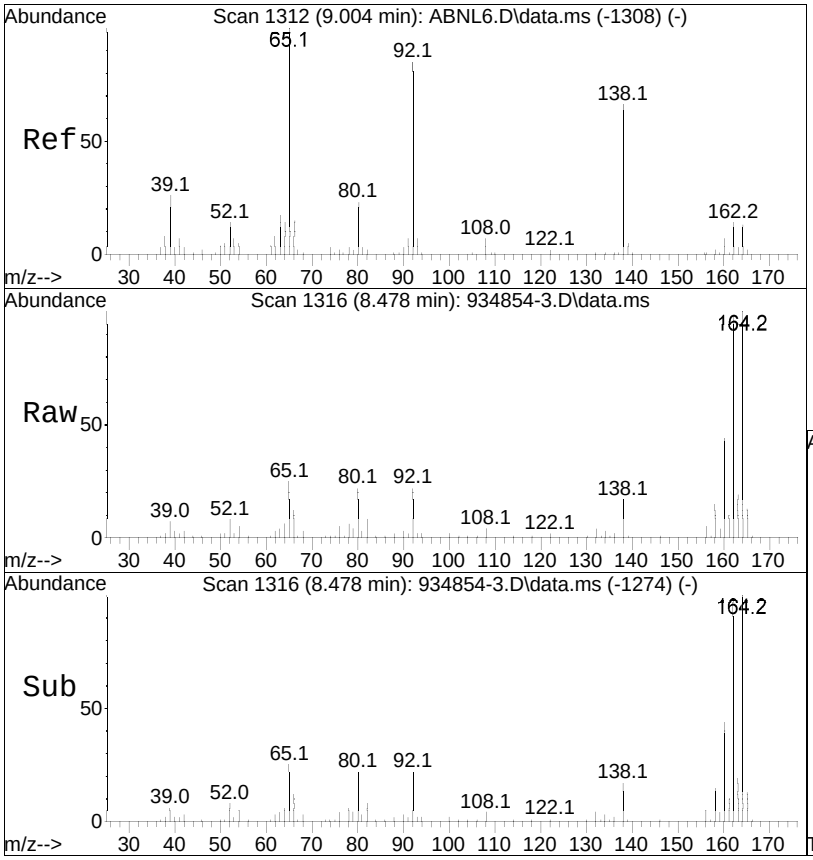


#61
Biphenyl
Concen: 1.23 ug/ml
RT: 7.954 min Scan# 1227
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:154 Resp: 80122

Ion	Ratio	Lower	Upper
154	100		
153	40.5	32.3	48.5
152	30.7	22.5	33.7

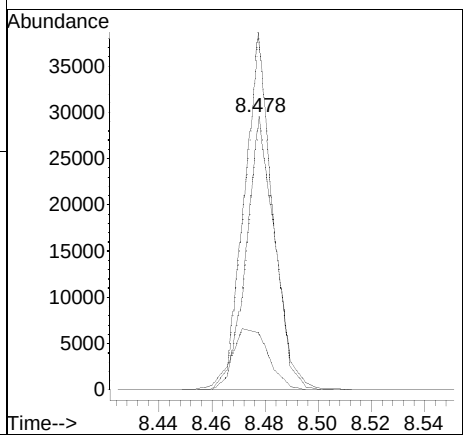


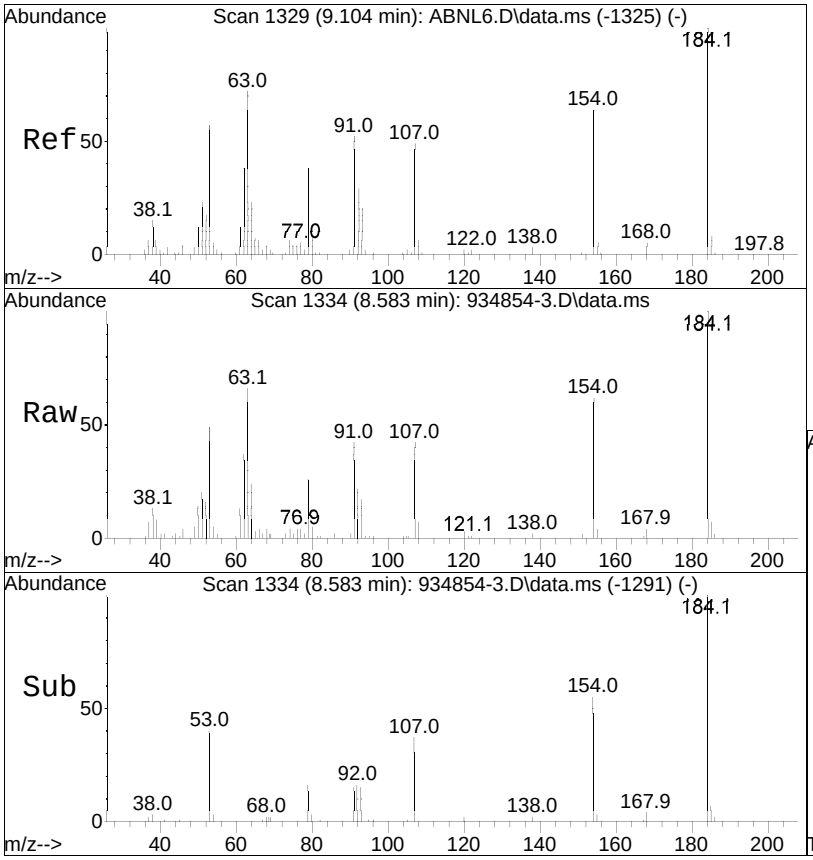


#63
3-Nitroaniline
Concen: 1.56 ug/ml
RT: 8.478 min Scan# 1316
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:138 Resp: 21744

Ion	Ratio	Lower	Upper
138	100		
92	130.4	93.4	140.2
108	30.4	9.5	14.3#

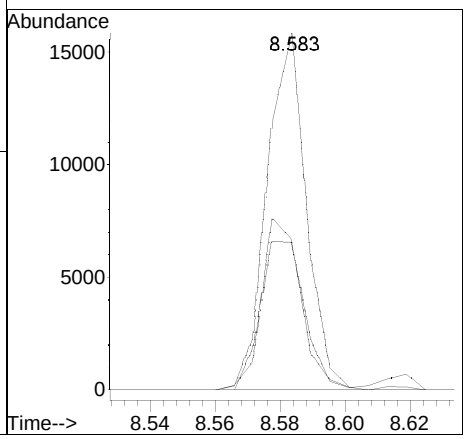


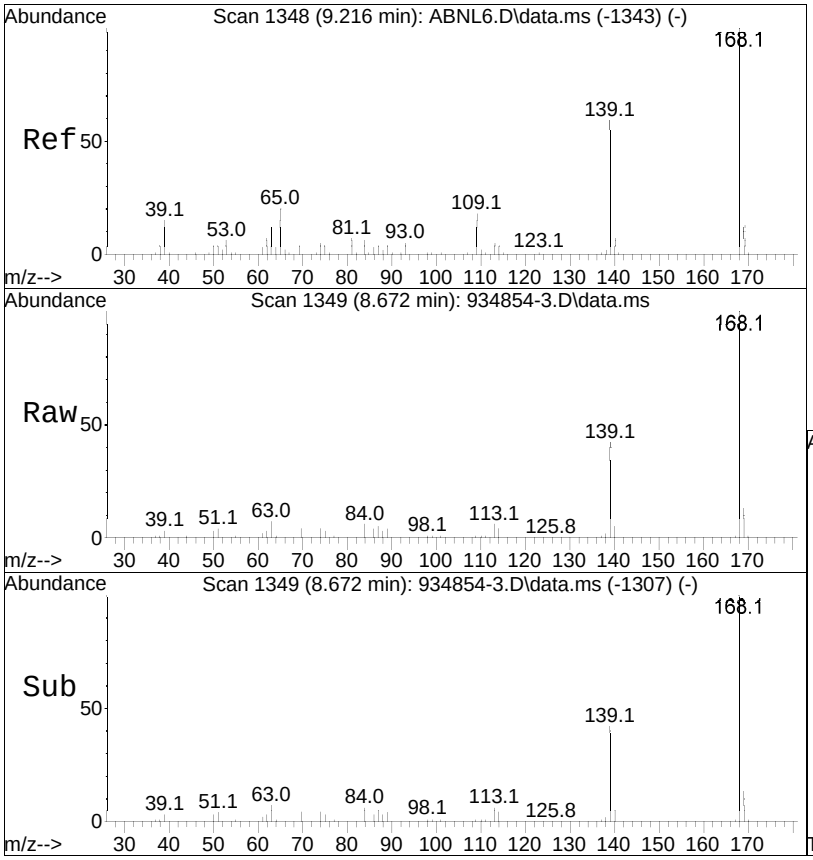


#65
2,4-Dinitrophenol
Concen: 1.74 ug/ml
RT: 8.583 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:184 Resp: 13182

Ion	Ratio	Lower	Upper
184	100		
107	48.2	37.7	56.5
91	47.5	46.3	69.5

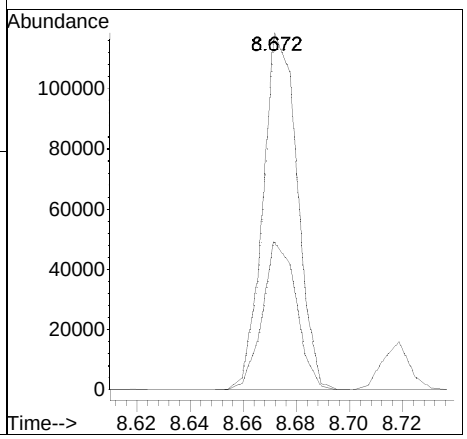


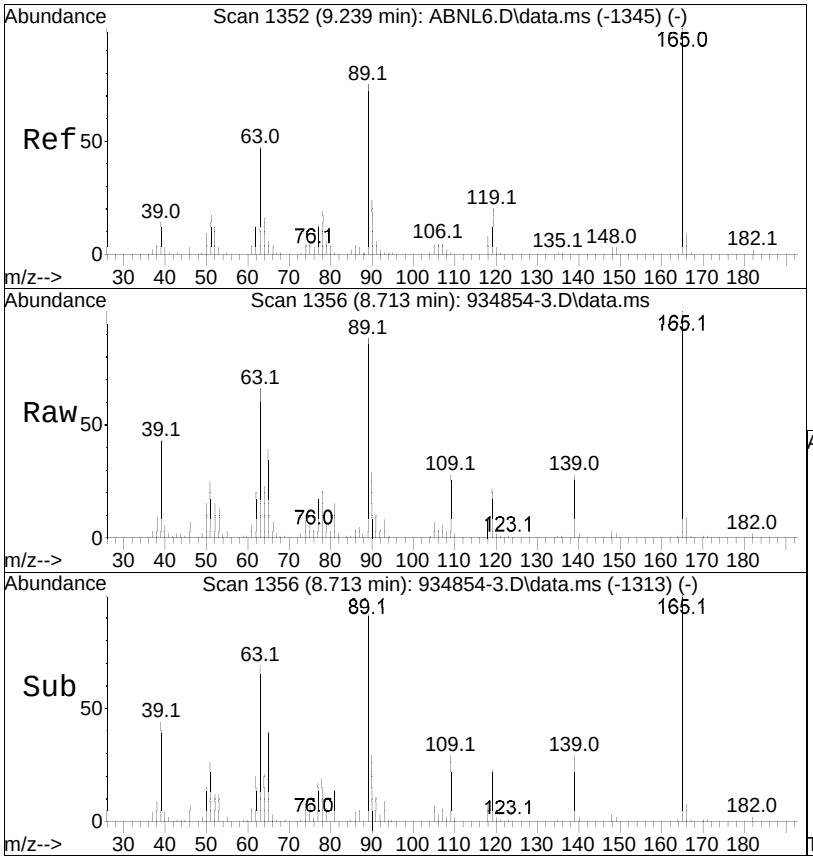


#66
Dibenzofuran
Concen: 1.27 ug/ml
RT: 8.672 min Scan# 1349
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:168 Resp: 104834

Ion	Ratio	Lower	Upper
168	100		
139	41.4	31.4	47.2

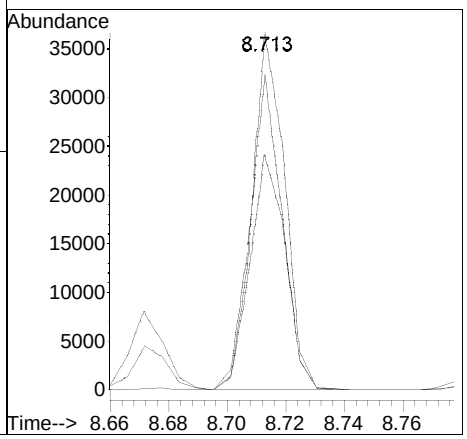


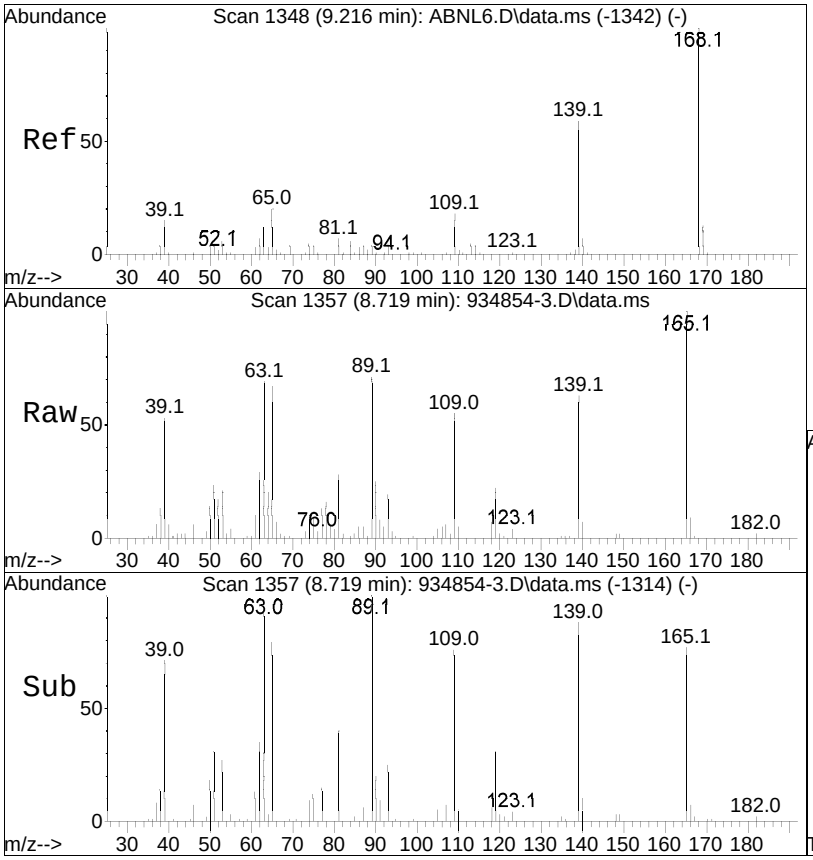


#67
2,4-Dinitrotoluene
Concen: 1.49 ug/ml
RT: 8.713 min Scan# 1356
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:165 Resp: 28154

Ion	Ratio	Lower	Upper
165	100		
89	87.2	72.0	108.0
63	71.5	52.7	79.1

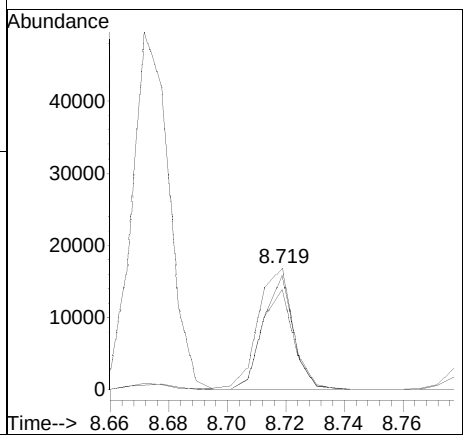


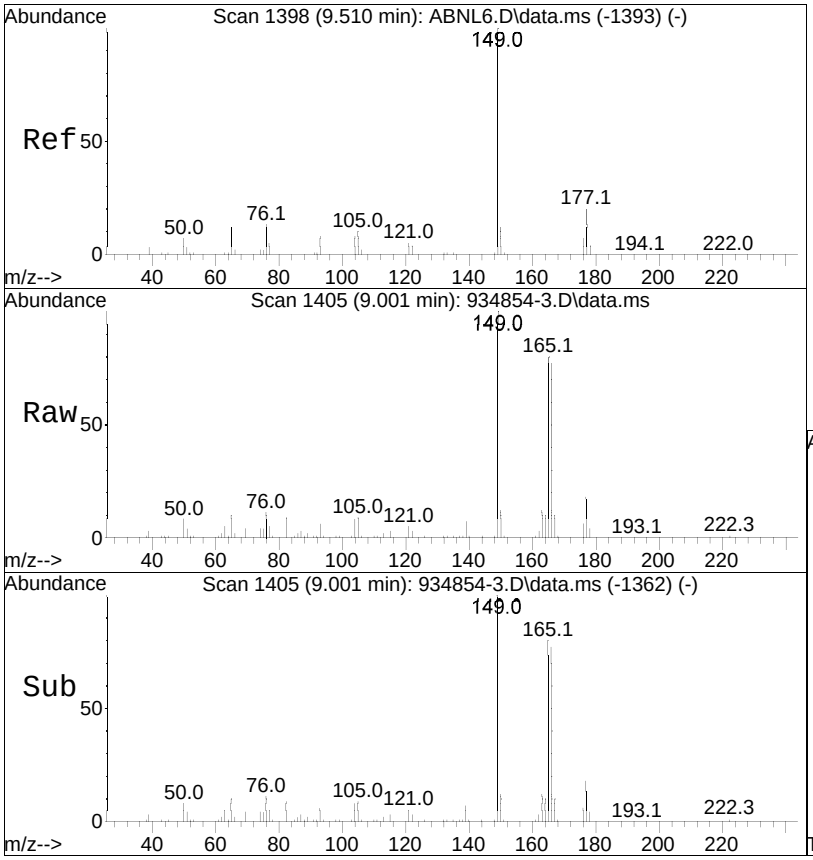


#68
4-Nitrophenol
Concen: 0.94 ug/ml
RT: 8.719 min Scan# 1357
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion: 65 Resp: 13959

Ion	Ratio	Lower	Upper
65	100		
109	75.7	47.4	71.2#
139	82.6	76.6	115.0

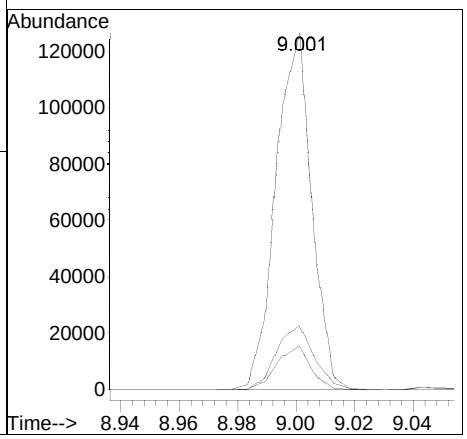


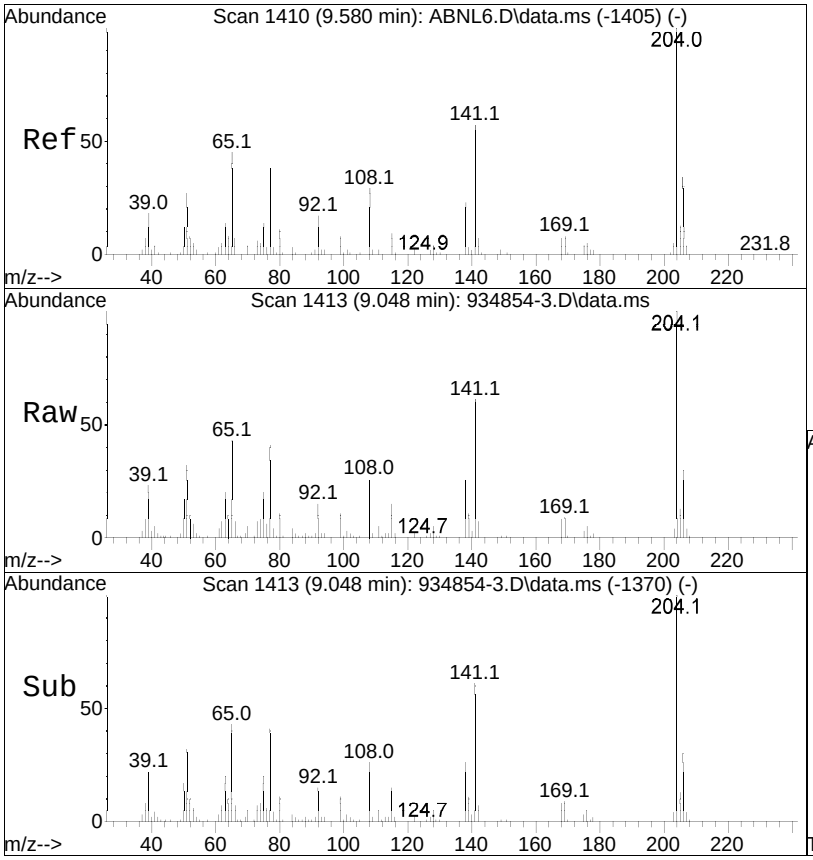


#71
Diethyl phthalate
Concen: 1.56 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:149 Resp: 107050

Ion	Ratio	Lower	Upper
149	100		
177	19.2	16.1	24.1
150	11.9	9.4	14.2

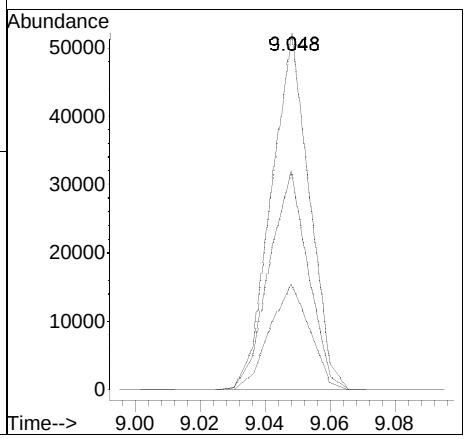


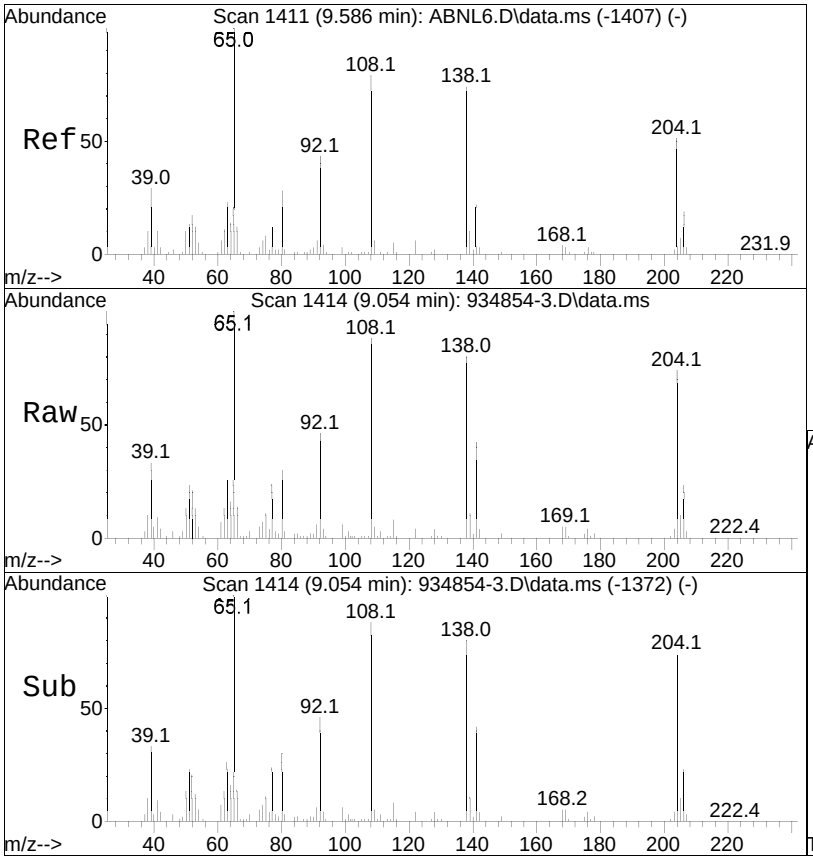


#73
4-Chlorophenyl phenyl ether
Concen: 1.24 ug/ml
RT: 9.048 min Scan# 1413
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:204 Resp: 42188

Ion	Ratio	Lower	Upper
204	100		
206	31.3	25.8	38.6
141	63.1	53.6	80.4

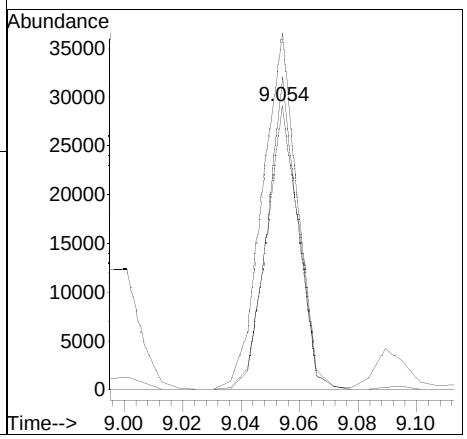


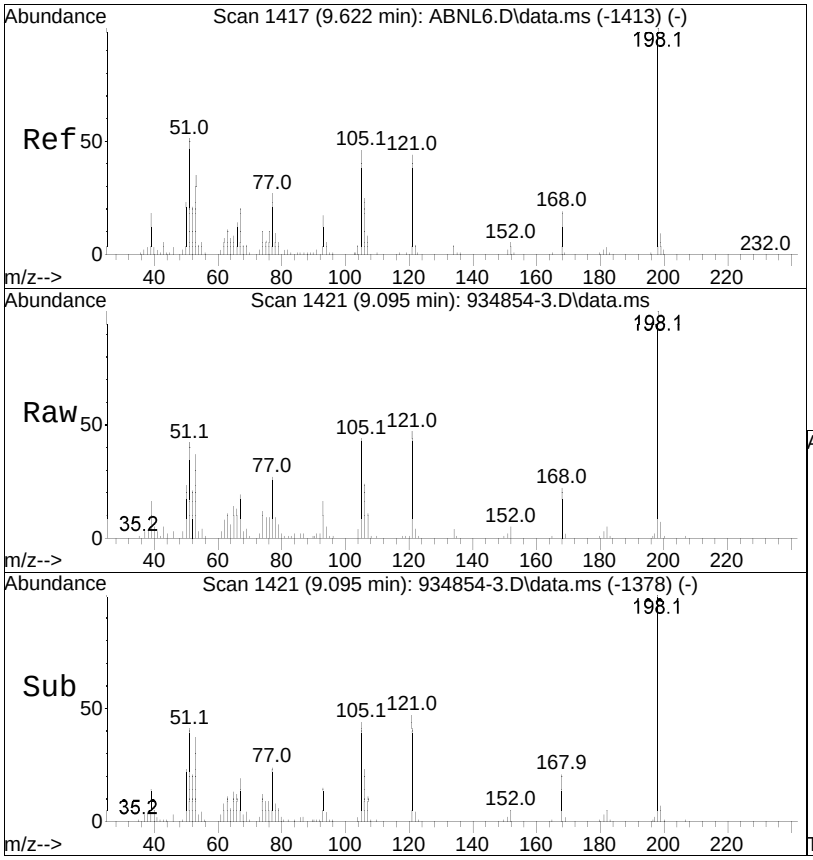


#74
4-Nitroaniline
Concen: 1.64 ug/ml
RT: 9.054 min Scan# 1414
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:138 Resp: 22372

Ion	Ratio	Lower	Upper
138	100		
108	102.5	52.1	78.1#
65	135.3	115.0	172.6

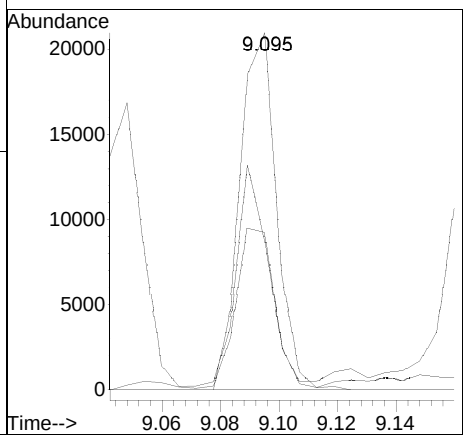


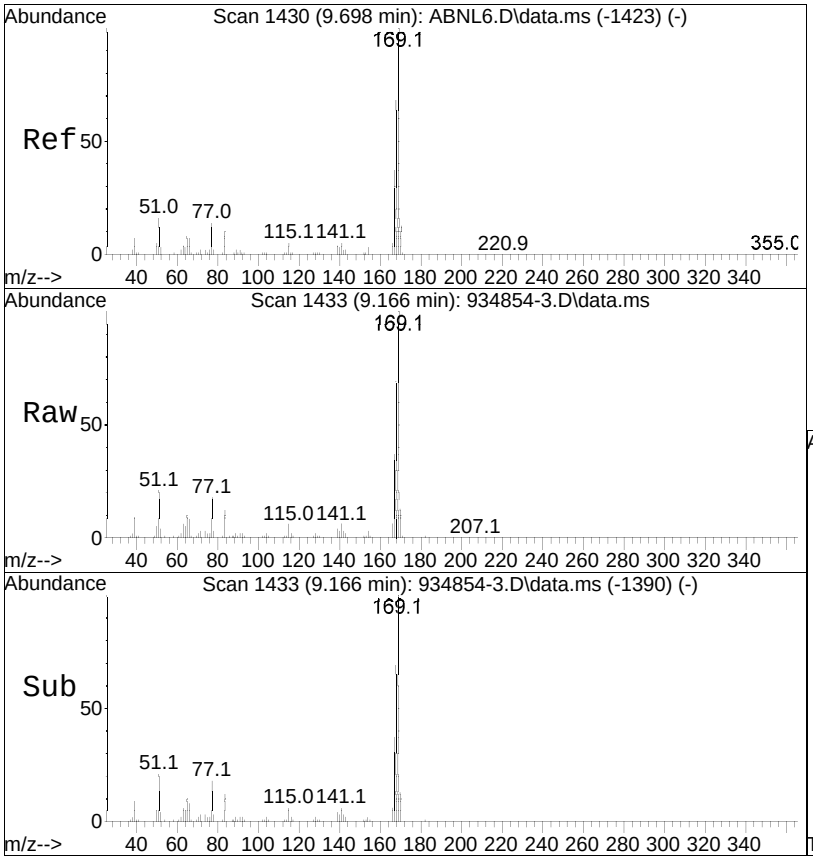


#75
4,6-Dinitro-o-cresol
Concen: 1.73 ug/ml
RT: 9.095 min Scan# 1421
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:198 Resp: 18393

Ion	Ratio	Lower	Upper
198	100		
51	55.6	76.0	114.0#
105	48.1	45.6	68.4

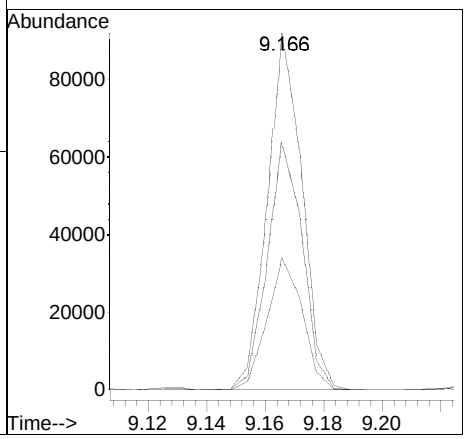


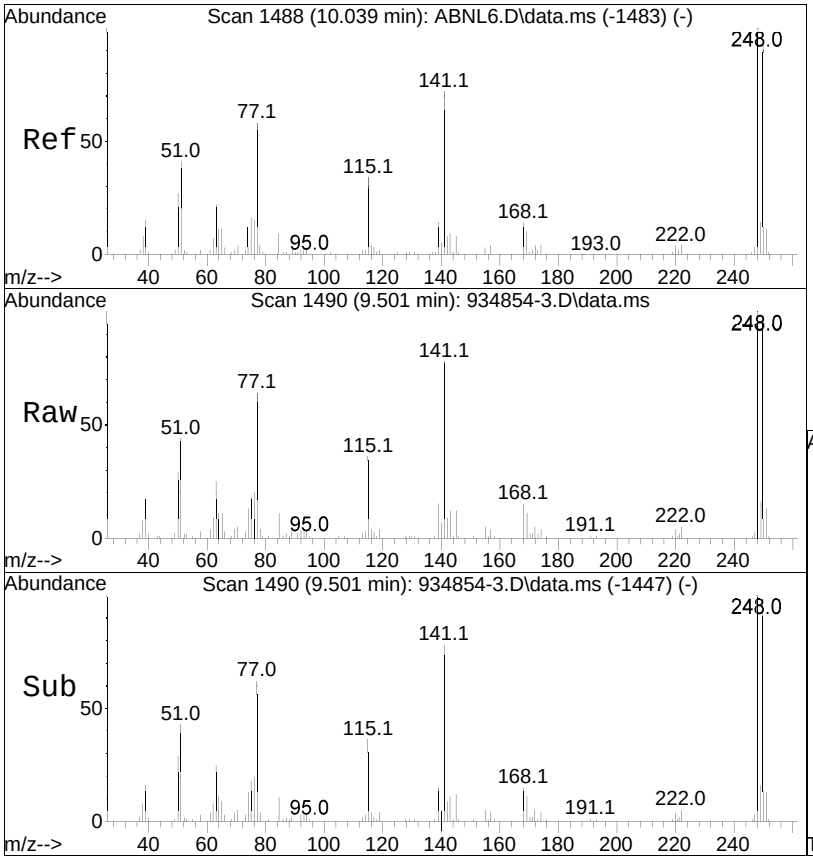


#76
NDPA/DPA
Concen: 1.41 ug/ml
RT: 9.166 min Scan# 1433
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:169 Resp: 75204

Ion	Ratio	Lower	Upper
169	100		
168	70.3	54.0	81.0
167	37.8	28.6	42.8

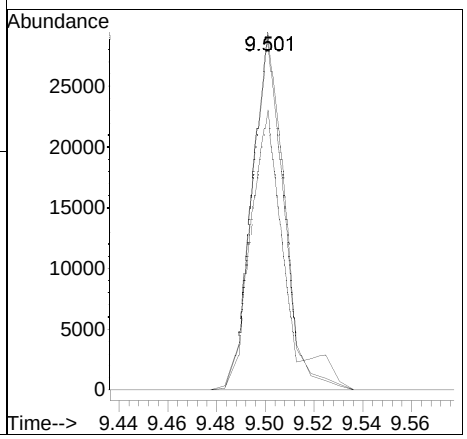


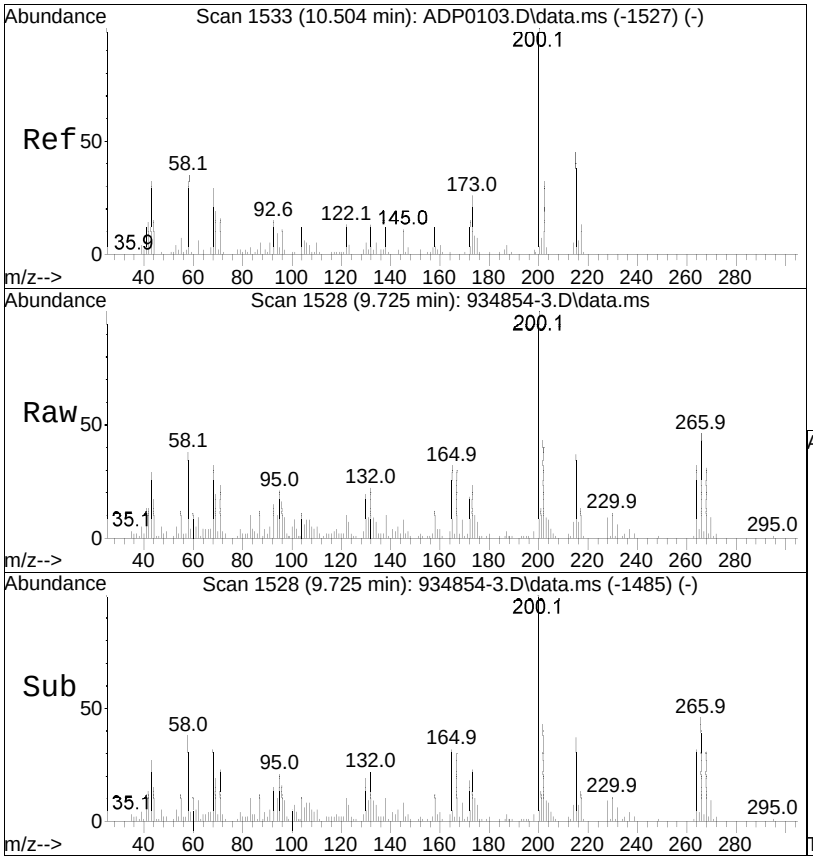


#79
4-Bromophenyl phenyl ether
Concen: 1.33 ug/ml
RT: 9.501 min Scan# 1490
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:248 Resp: 26864

Ion	Ratio	Lower	Upper
248	100		
141	82.6	76.6	114.8
250	96.0	77.3	115.9

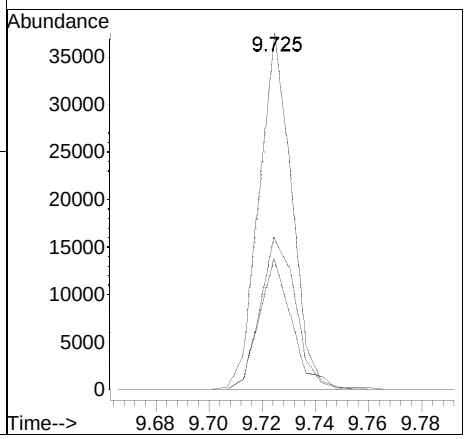


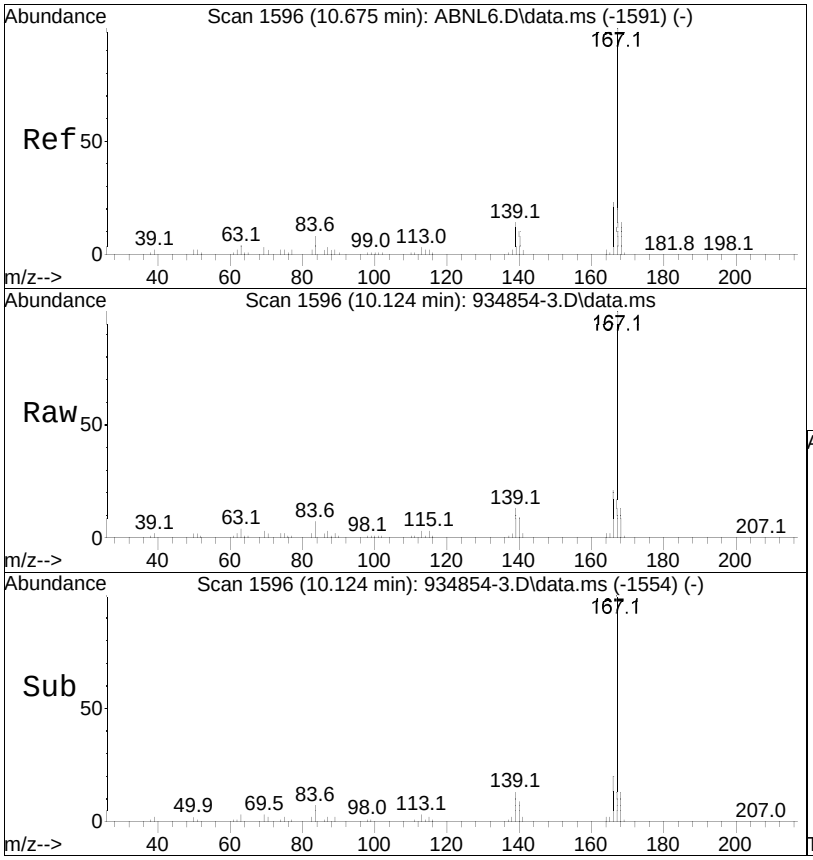


#86
Atrazine
Concen: 1.66 ug/ml
RT: 9.725 min Scan# 1528
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:200 Resp: 31682

Ion	Ratio	Lower	Upper
200	100		
202	46.8	25.8	38.6#
215	37.6	40.2	60.4#

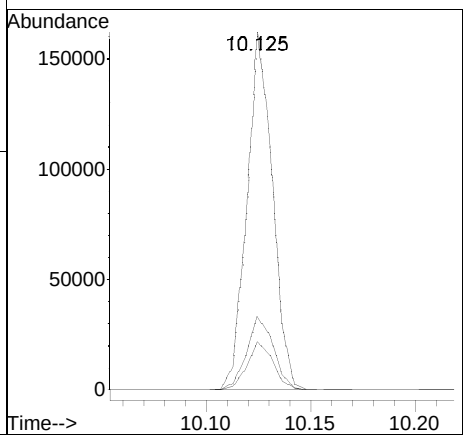


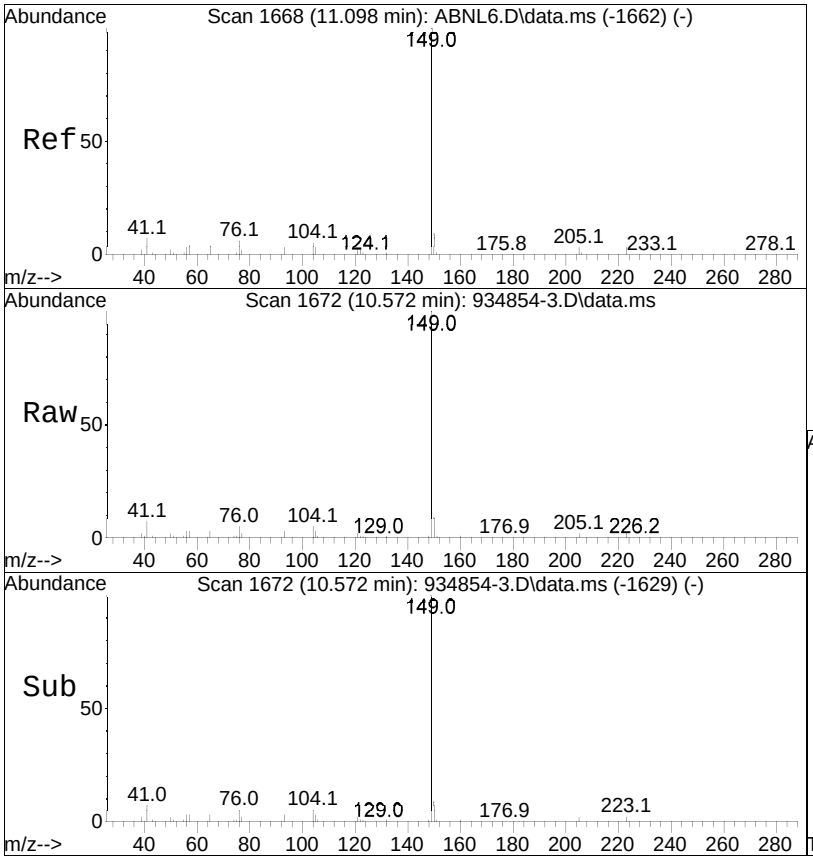


#90
Carbazole
Concen: 1.50 ug/ml
RT: 10.124 min Scan# 1596
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:167 Resp: 136121

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	21.6	17.4	26.0

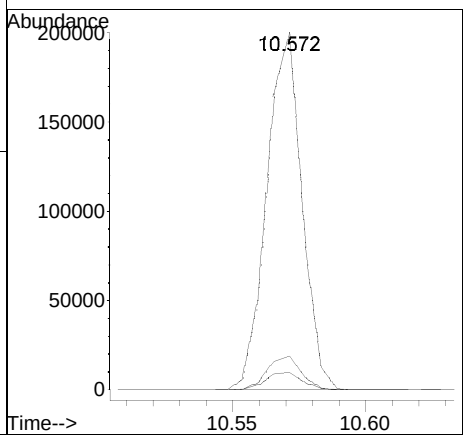


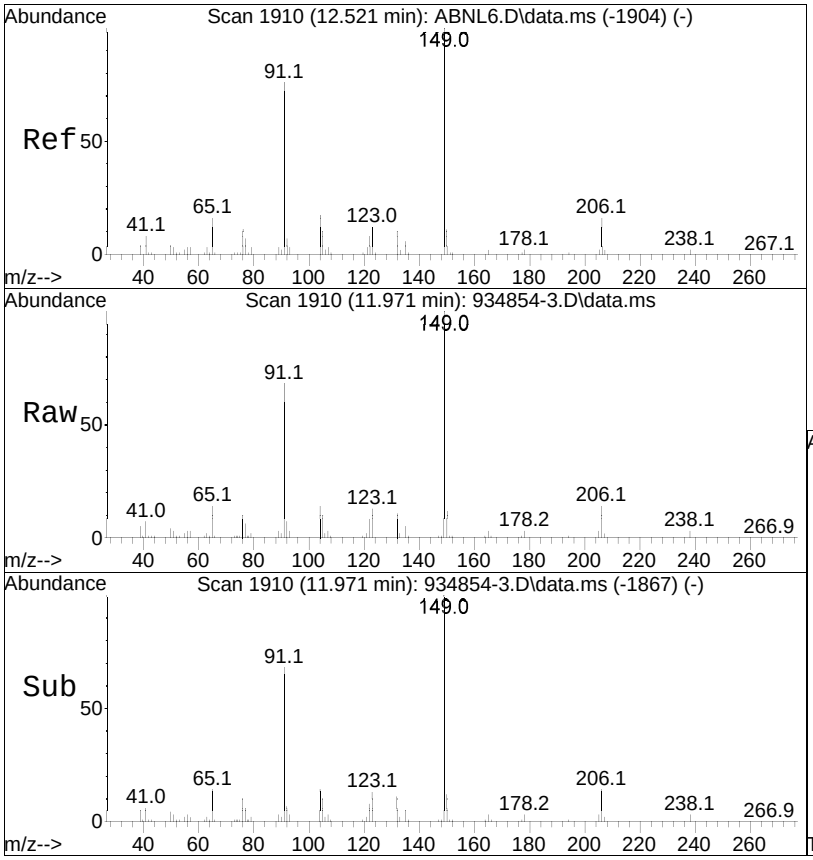


#91
Di-n-butylphthalate
Concen: 1.64 ug/ml
RT: 10.572 min Scan# 1672
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:149 Resp: 181609

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.4	4.5	6.7

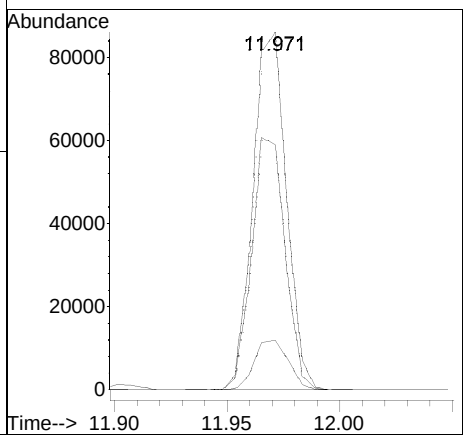


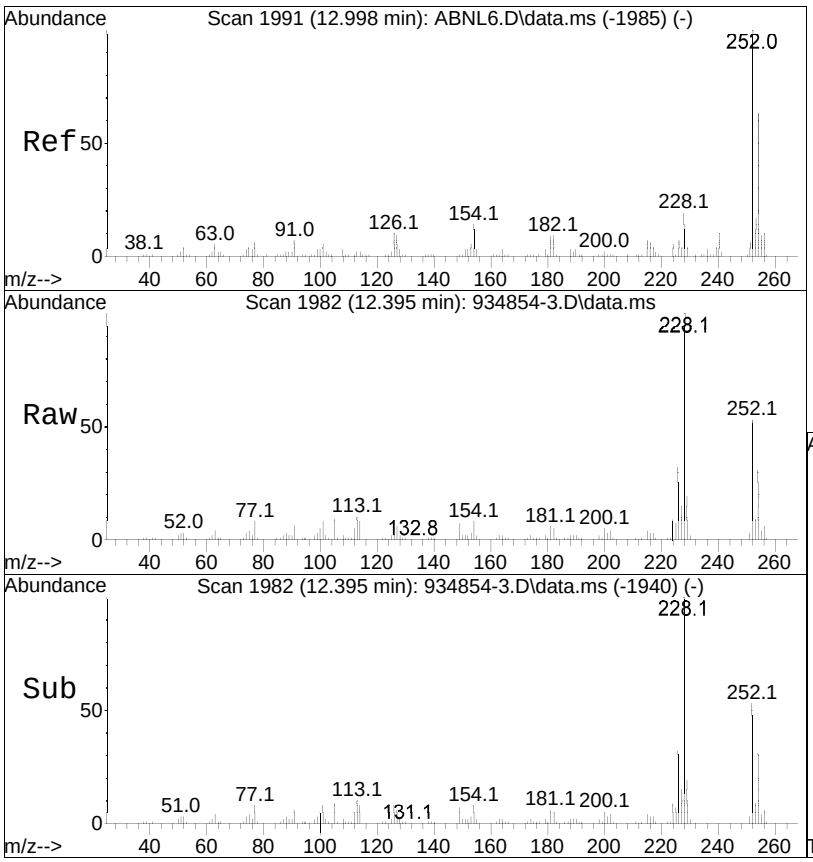


#96
Butyl benzyl phthalate
Concen: 1.86 ug/ml
RT: 11.971 min Scan# 1910
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:149 Resp: 87589

Ion	Ratio	Lower	Upper
149	100		
91	70.8	63.3	94.9
206	14.3	13.9	20.9

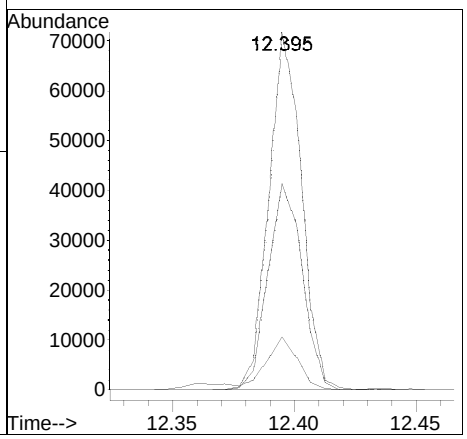


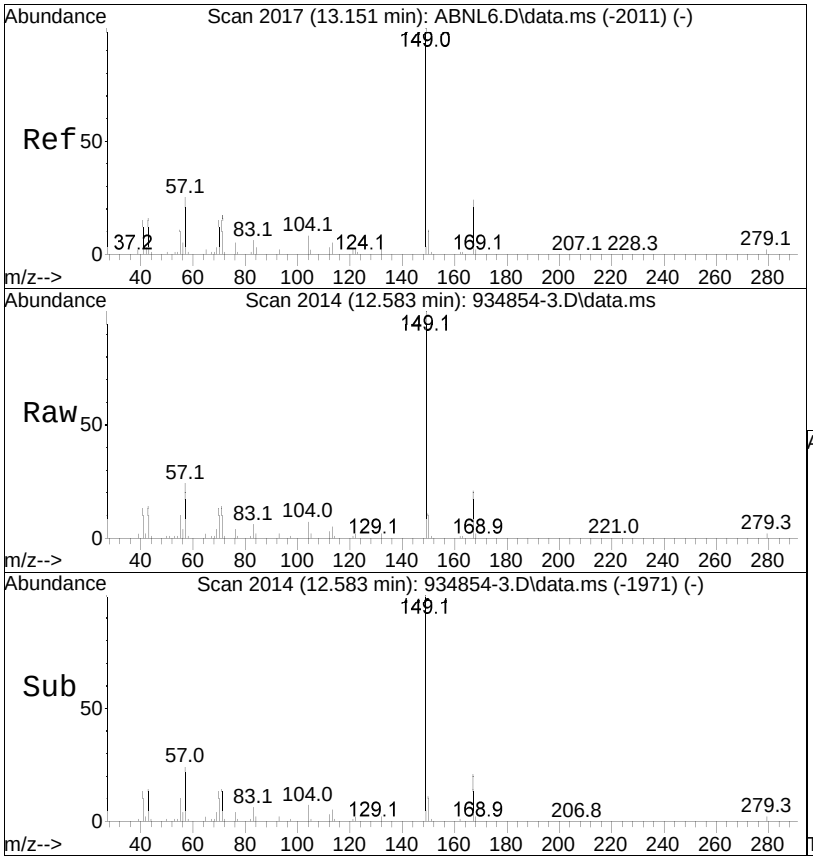


#105
3,3'-Dichlorobenzidine
Concen: 1.62 ug/ml
RT: 12.395 min Scan# 1982
Delta R.T. -0.006 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:252 Resp: 66222

Ion	Ratio	Lower	Upper
252	100		
126	17.0	14.5	21.7
254	60.7	51.2	76.8

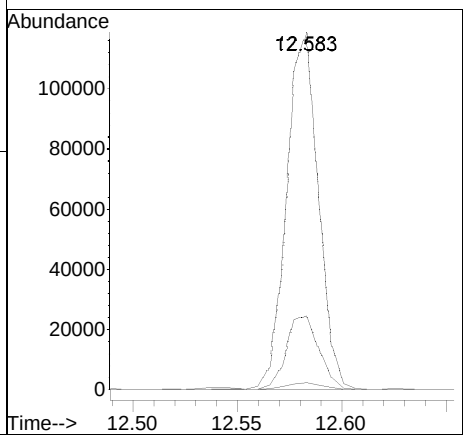


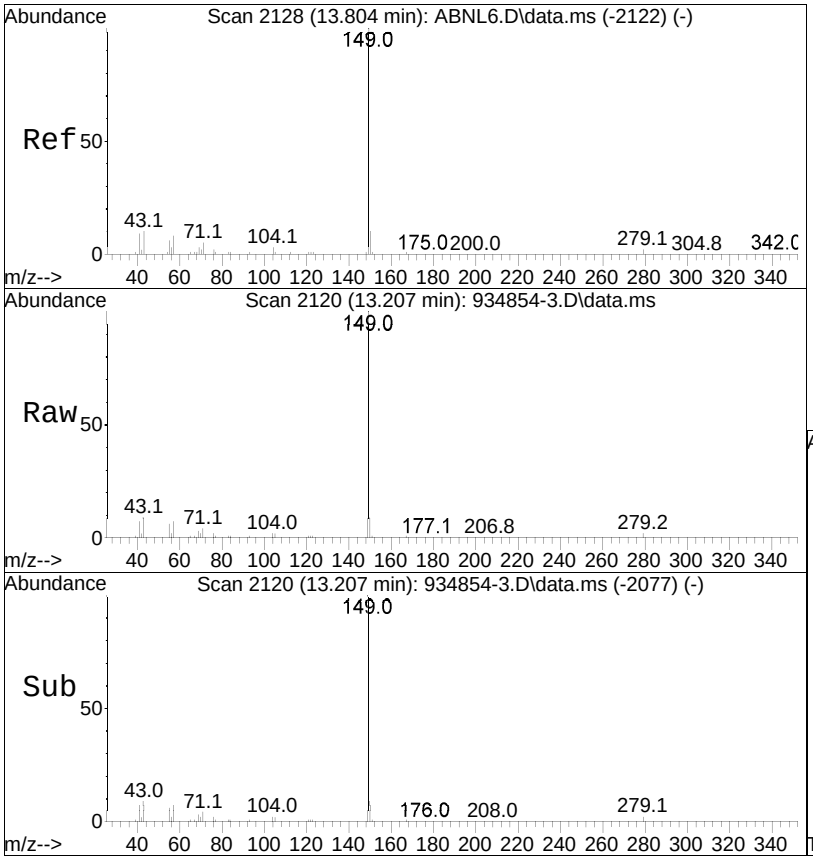


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.77 ug/ml
RT: 12.583 min Scan# 2014
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:149 Resp: 124136

Ion	Ratio	Lower	Upper
149	100		
167	21.3	22.1	33.1#
279	1.9	3.0	4.4#

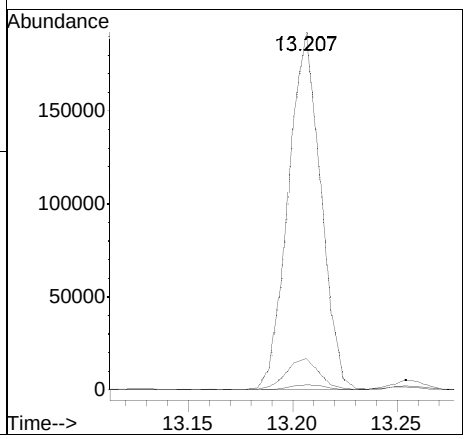




#108
Di-n-octylphthalate
Concen: 1.78 ug/ml
RT: 13.207 min Scan# 2120
Delta R.T. 0.000 min
Lab File: 934854-3.D
Acq: 16 Jun 2024 4:18 pm

Tgt Ion:149 Resp: 205312

Ion	Ratio	Lower	Upper
149	100		
43	8.7	18.8	28.2#
167	1.5	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-3.D
Acq On : 19 Jun 2024 10:50 am
Operator : SV106:sz
Sample : WG1935741-3,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 13:51:29 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:46:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.866	152	54239	4.000	ug/ml		0.01
Standard Area 1 = 59427			Recovery = 91.27%				
27) IS2_1,4-Dichlorobenzen...	4.866	152	54239	4.000	ug/ml		0.00
Standard Area 3 = 60712			Recovery = 89.34%				
32) IS3_1,4-Dichlorobenzen...	4.866	152	54239	4.000	ug/ml		0.00
Standard Area 2 = 62958			Recovery = 86.15%				
34) IS1_Naphthalene-d8	6.613	136	196734	4.000	ug/ml	#	0.00
Standard Area 1 = 210492			Recovery = 93.46%				
54) IS2_Naphthalene-d8	6.613	136	196734	4.000	ug/ml	#	0.00
Standard Area 3 = 221960			Recovery = 88.63%				
62) IS1_Acenaphthene-d10	8.401	164	131636	4.000	ug/ml		0.00
Standard Area 1 = 134114			Recovery = 98.15%				
82) IS2_Acenaphthene-d10	8.401	164	131636	4.000	ug/ml		0.00
Standard Area 3 = 147055			Recovery = 89.51%				
85) IS3_Acenaphthene-d10	8.401	164	131636	4.000	ug/ml		0.00
Standard Area 2 = 148414			Recovery = 88.70%				
87) IS1_Phenanthrene-d10	9.795	188	268411	4.000	ug/ml		0.00
Standard Area 1 = 283169			Recovery = 94.79%				
99) IS3_Phenanthrene-d10	9.795	188	268411	4.000	ug/ml		0.00
Standard Area 2 = 314363			Recovery = 85.38%				
103) IS1_Chrysene-d12	12.289	240	253039	4.000	ug/ml		0.00
Standard Area 1 = 267660			Recovery = 94.54%				
112) IS1_Perylene-d12	13.612	264	300355	4.000	ug/ml		0.00
Standard Area 1 = 323400			Recovery = 92.87%				
System Monitoring Compounds							
4) 2-Fluorophenol	1.996	112	19380	1.264	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 63.20%				
7) Phenol-d6	4.419	99	19556	0.987	ug/ml		0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 49.35%				
19) Nitrobenzene-d5	5.772	82	12895	0.608	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.80%				
45) 2-Fluorobiphenyl	7.807	172	34298	0.752	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 75.20%				
78) 2,4,6-Tribromophenol	9.160	330	13653	1.950	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 97.50%				

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-3.D
Acq On : 19 Jun 2024 10:50 am
Operator : SV106:sz
Sample : WG1935741-3,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 13:51:29 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:46:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	11.366	244	51526	0.891	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 89.10%

Target Compounds						Qvalue
6) 2-Chlorophenol	4.431	128	28099	1.685	ug/ml#	85
8) Phenol	4.442	94	20024	0.949	ug/ml#	72
14) Bis(2-chloroisopropyl)...	5.495	45	20425	0.829	ug/ml#	51
15) 2-Methylphenol	5.525	108	21950	1.462	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.678	70	17041	1.215	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.772	108	23611	1.446	ug/ml	97
20) Nitrobenzene	5.795	77	36851	1.806	ug/ml	91
21) Isophorone	6.142	82	49444	1.366	ug/ml#	97
22) 2-Nitrophenol	6.213	139	15704	1.861	ug/ml#	82
23) 2,4-Dimethylphenol	6.401	107	21200	1.240	ug/ml	95
24) Bis(2-chloroethoxy)met...	6.489	93	30488	1.342	ug/ml	97
25) 2,4-Dichlorophenol	6.519	162	28048	1.800	ug/ml#	90
28) Benzaldehyde	3.713	105	23245	1.565	ug/ml	83
29) Acetophenone	5.595	105	39166	1.458	ug/ml#	84
37) 4-Chloroaniline	6.772	65	10180M3	1.294	ug/ml	
39) p-Chloro-m-cresol	7.366	107	26481	1.647	ug/ml	94
42) Hexachlorocyclopentadiene	7.583	237	15940	1.187	ug/ml	94
43) 2,4,6-Trichlorophenol	7.719	196	26273	2.011	ug/ml	98
44) 2,4,5-Trichlorophenol	7.748	196	26234	1.844	ug/ml	97
47) 2-Nitroaniline	8.007	138	21618	2.043	ug/ml#	75
50) Dimethyl phthalate	8.242	163	81401	1.686	ug/ml#	95
52) 2,6-Dinitrotoluene	8.272	165	17511	1.805	ug/ml	92
59) Caprolactam	7.107	55	4239	0.490	ug/ml#	33
60) 1,2,4,5-Tetrachloroben...	7.572	216	29099	1.285	ug/ml	96
61) Biphenyl	7.883	154	66918	1.510	ug/ml	98
63) 3-Nitroaniline	8.413	138	17673	1.834	ug/ml#	94
65) 2,4-Dinitrophenol	8.513	184	10813	2.001	ug/ml#	82
66) Dibenzofuran	8.607	168	87129	1.527	ug/ml	97
67) 2,4-Dinitrotoluene	8.648	165	23213	1.771	ug/ml#	85
68) 4-Nitrophenol	8.654	65	9757	0.944	ug/ml#	75
71) Diethyl phthalate	8.930	149	84021	1.769	ug/ml	96
73) 4-Chlorophenyl phenyl ...	8.977	204	36823	1.561	ug/ml#	85
74) 4-Nitroaniline	8.983	138	18841	1.996	ug/ml#	71

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-3.D
Acq On : 19 Jun 2024 10:50 am
Operator : SV106:sz
Sample : WG1935741-3,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 13:51:29 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:46:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240619aRVT\ABN0619a.D
: 2 - I:\8270\sv106\240619aRVT\ADP0619.D
: 3 - I:\8270\sv106\240619aRVT\AP90619.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4,6-Dinitro-o-cresol	9.025	198	16715	2.263	ug/ml#	60
76)	NDPA/DPA	9.101	169	61959	1.678	ug/ml	98
79)	4-Bromophenyl phenyl e...	9.430	248	22941	1.632	ug/ml#	88
86)	Atrazine	9.660	200	26466	1.996	ug/ml#	81
90)	Carbazole	10.054	167	115071	1.919	ug/ml	99
91)	Di-n-butylphthalate	10.501	149	141599	1.937	ug/ml	98
96)	Butyl benzyl phthalate	11.895	149	67118	2.159	ug/ml#	84
105)	3,3'-Dichlorobenzidine	12.318	252	59450	2.109	ug/ml#	96
107)	Bis(2-ethylhexyl)phtha...	12.507	149	105040	2.164	ug/ml#	95
108)	Di-n-octylphthalate	13.124	149	183653	2.310	ug/ml#	67

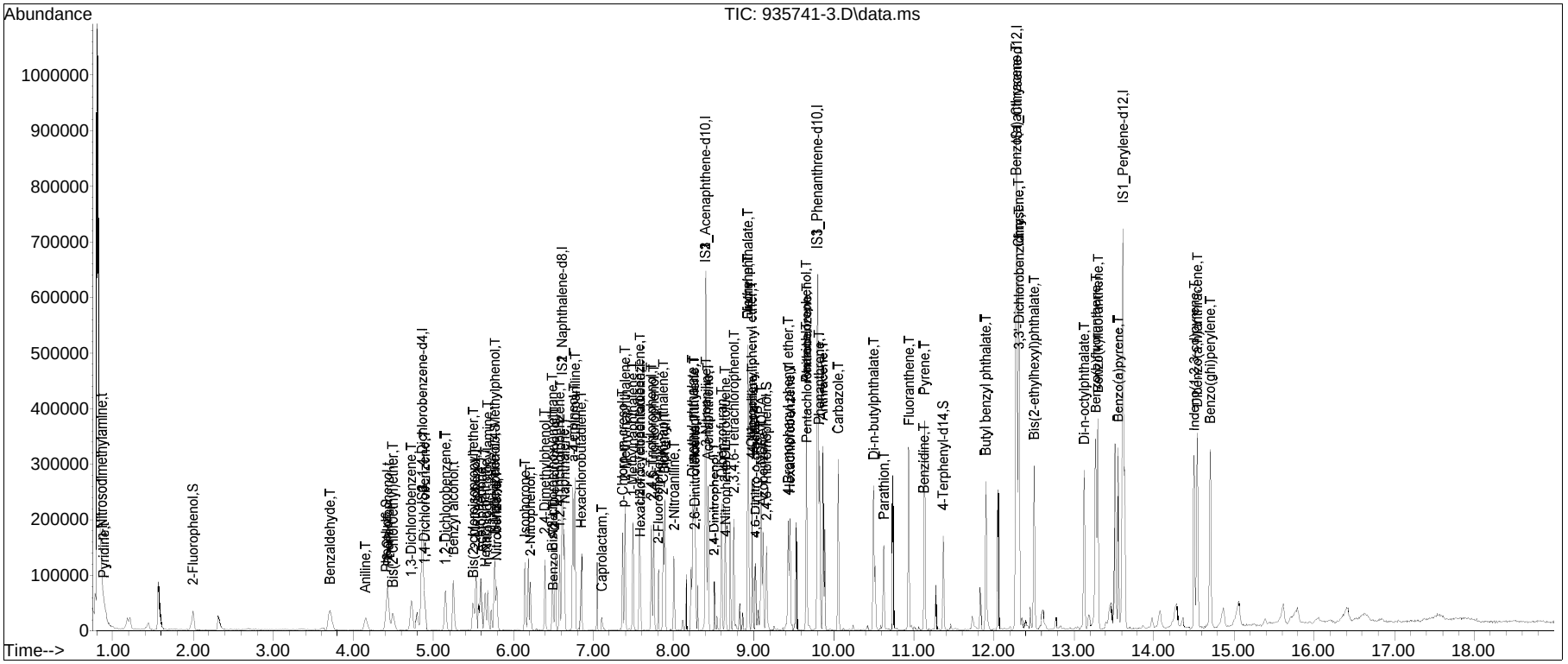
(#) = qualifier out of range (m) = manual integration (+) = signals summed

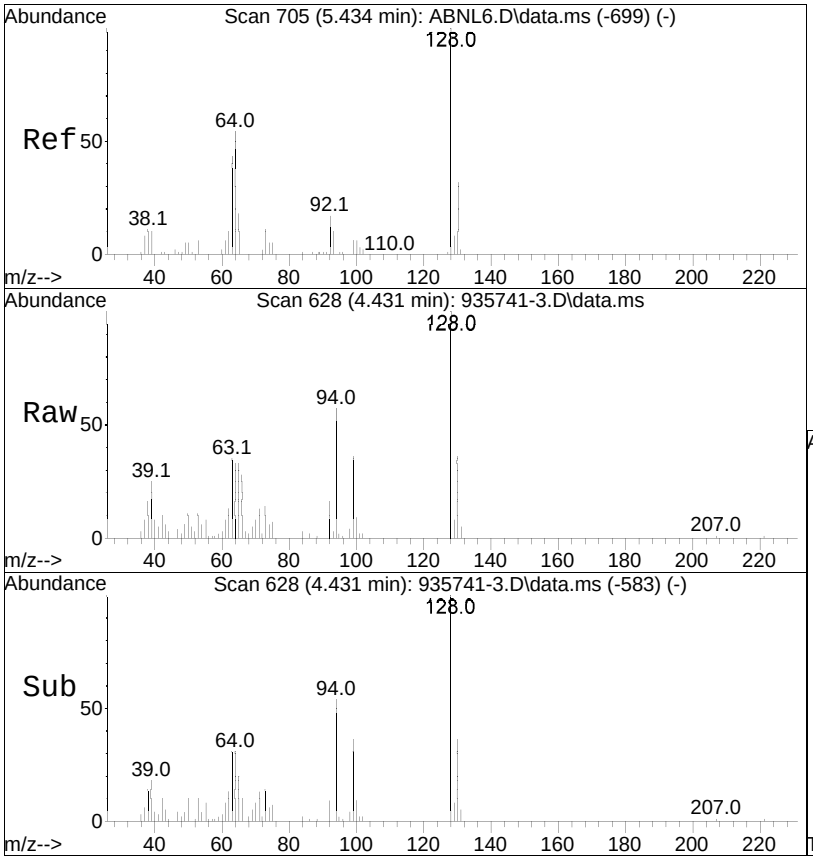
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240619aRVT\
Data File : 935741-3.D
Acq On : 19 Jun 2024 10:50 am
Operator : SV106:sz
Sample : WG1935741-3,32,,gmr
Misc : WG1936417,WG1935741,ical21056
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 13:51:29 2024
Quant Method : I:\8270\sv106\240619aRVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 13:46:48 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAaRVT\AP90619.D••

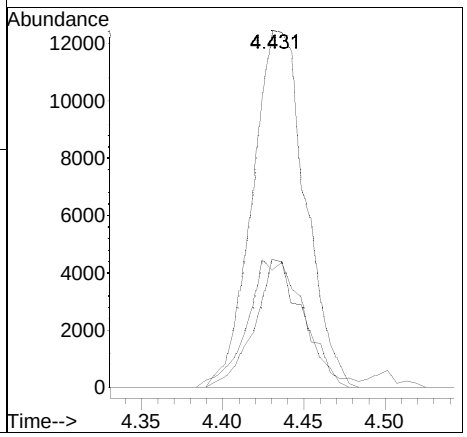


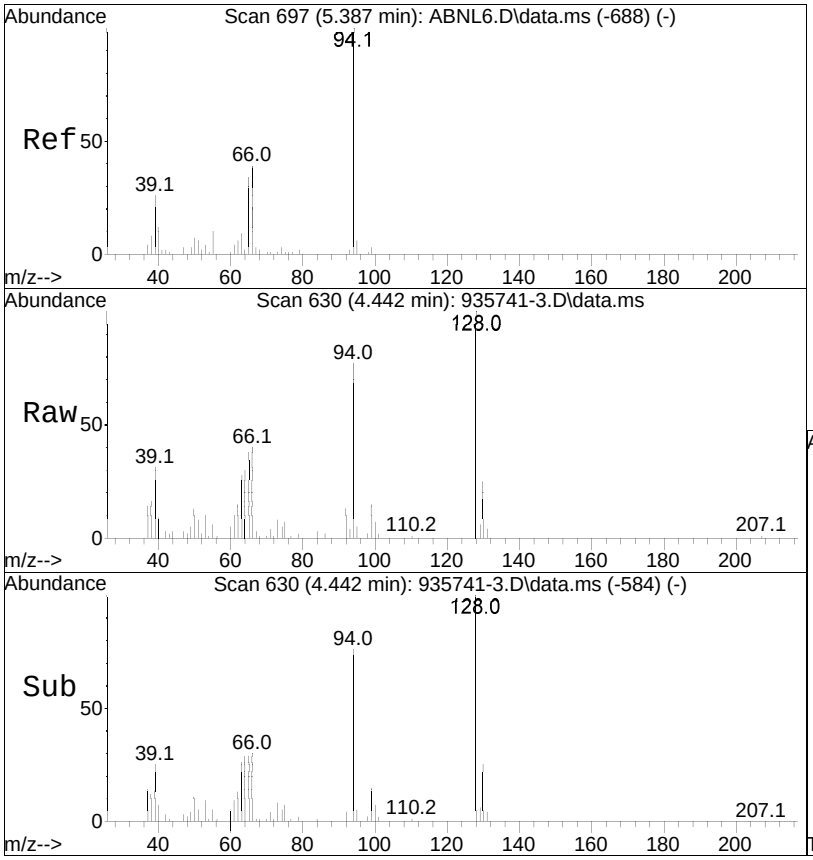


#6
2-Chlorophenol
Concen: 1.69 ug/ml
RT: 4.431 min Scan# 628
Delta R.T. 0.012 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:128 Resp: 28099

Ion	Ratio	Lower	Upper
128	100		
64	39.0	45.1	67.7#
130	32.8	26.2	39.4

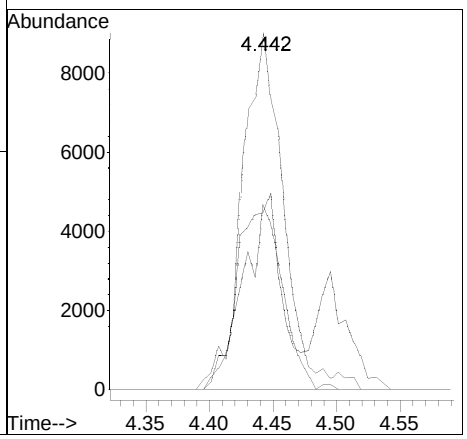


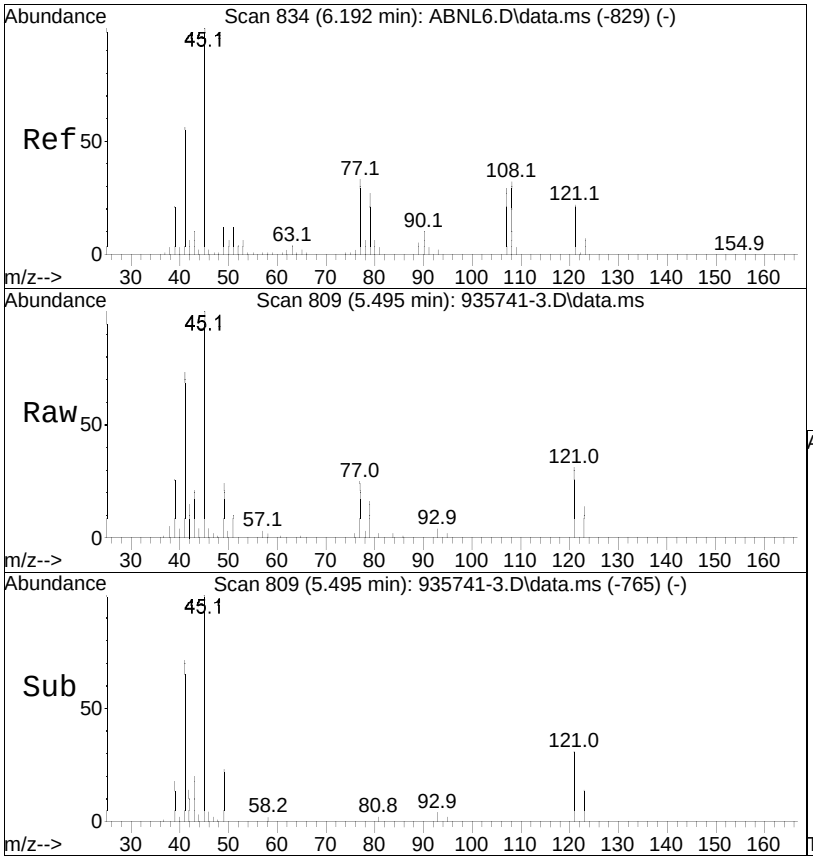


#8
Phenol
Concen: 0.95 ug/ml
RT: 4.442 min Scan# 630
Delta R.T. 0.018 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 94 Resp: 20024

Ion	Ratio	Lower	Upper
94	100		
65	56.5	26.0	39.0#
66	53.1	33.8	50.8#

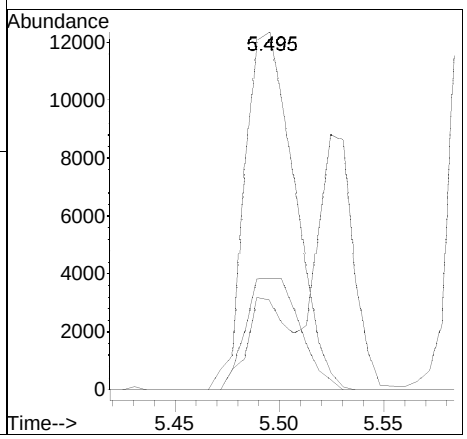


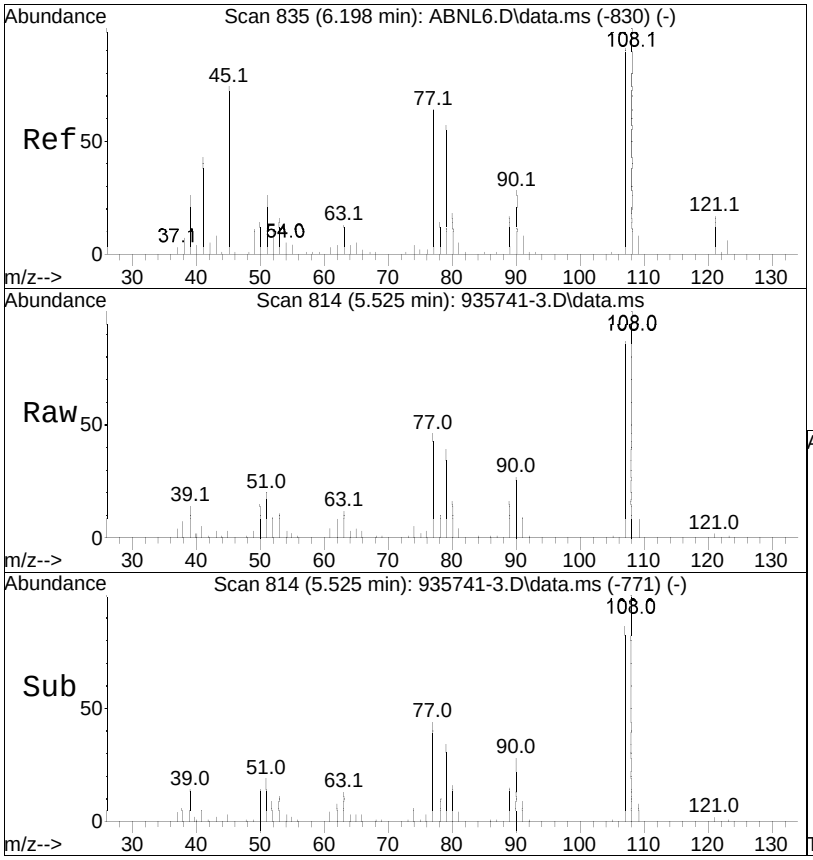


#14
Bis(2-chloroisopropyl)ether
Concen: 0.83 ug/ml
RT: 5.495 min Scan# 809
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 45 Resp: 20425

Ion	Ratio	Lower	Upper
45	100		
121	33.9	9.8	14.6#
77	21.4	6.1	9.1#

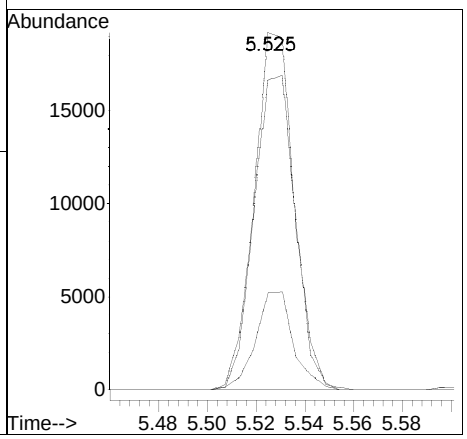


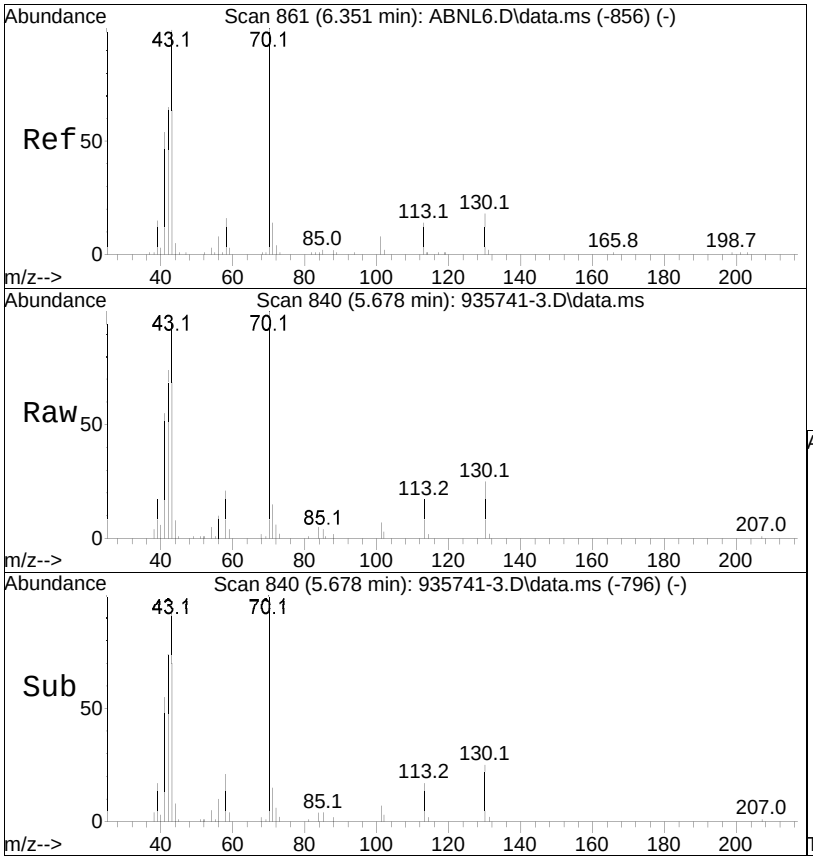


#15
2-Methylphenol
Concen: 1.46 ug/ml
RT: 5.525 min Scan# 814
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:108 Resp: 21950

Ion	Ratio	Lower	Upper
108	100		
107	90.3	70.7	106.1
90	26.0	18.7	28.1

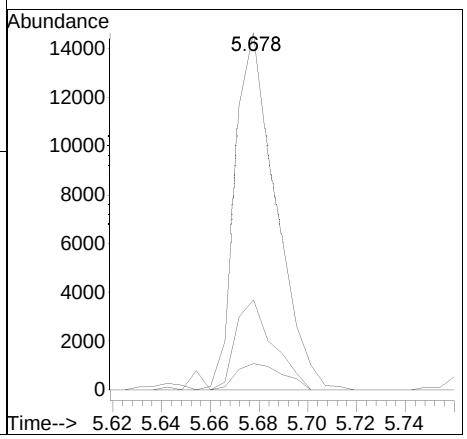


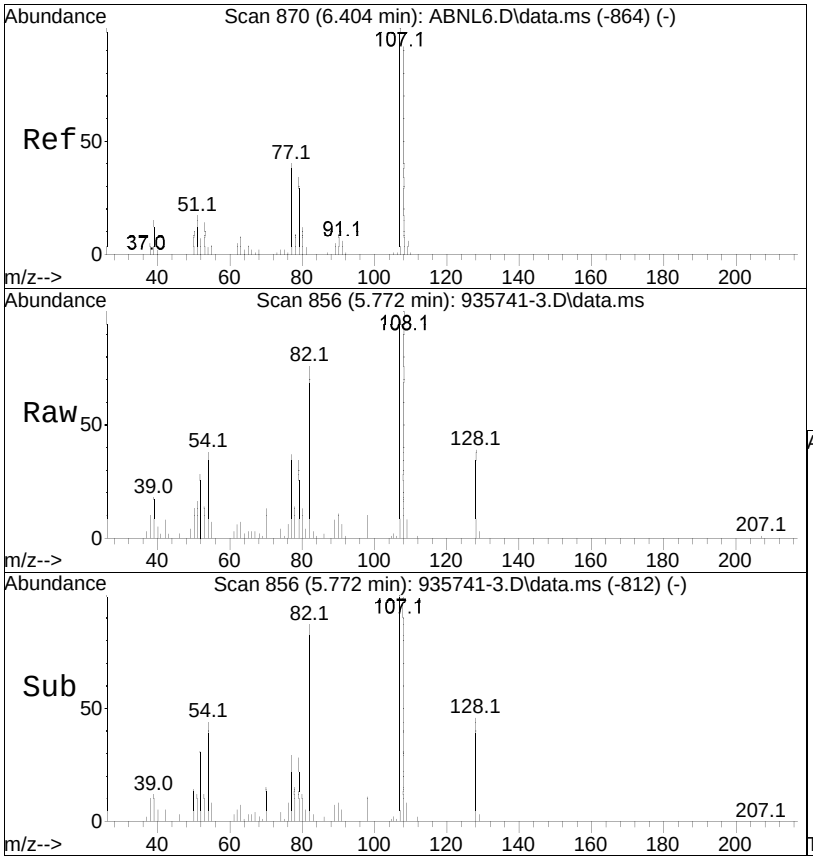


#17
n-Nitrosodi-n-propylamine
Concen: 1.21 ug/ml
RT: 5.678 min Scan# 840
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 70 Resp: 17041

Ion	Ratio	Lower	Upper
70	100		
130	25.1	18.2	27.4
101	8.5	7.8	11.8

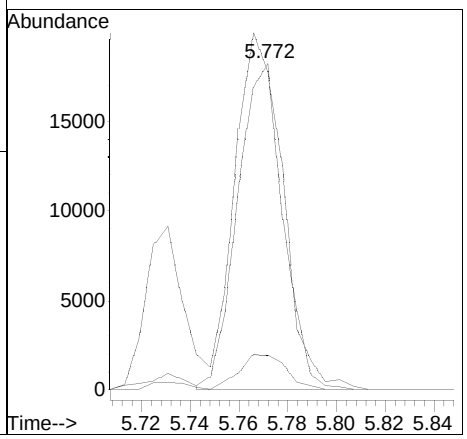


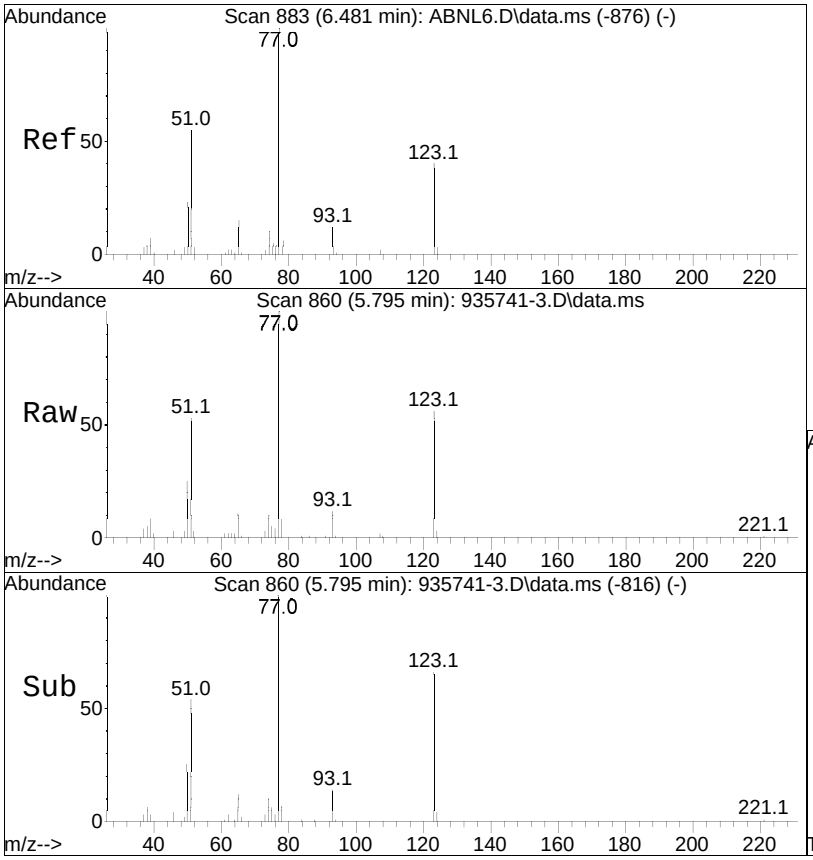


#18
3-Methylphenol/4-Methylphenol
Concen: 1.45 ug/ml
RT: 5.772 min Scan# 856
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:108 Resp: 23611

Ion	Ratio	Lower	Upper
108	100		
107	114.5	88.6	132.8
90	11.2	8.8	13.2

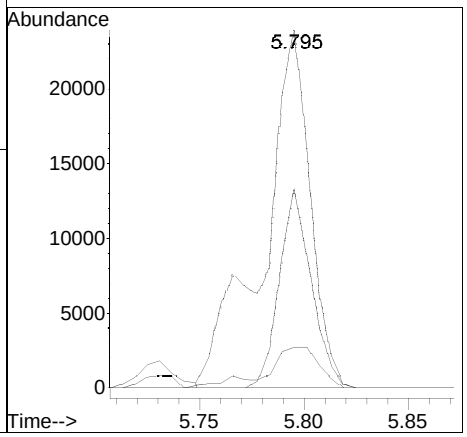


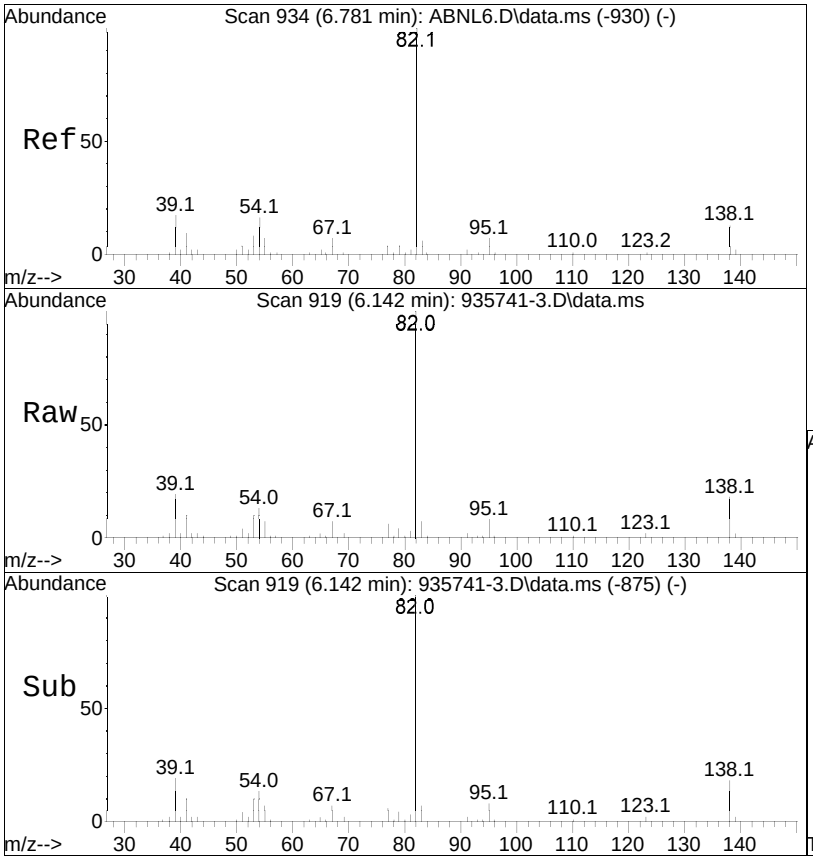


#20
Nitrobenzene
Concen: 1.81 ug/ml
RT: 5.795 min Scan# 860
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 77 Resp: 36851

Ion	Ratio	Lower	Upper
77	100		
123	38.1	36.3	54.5
65	12.8	11.6	17.4

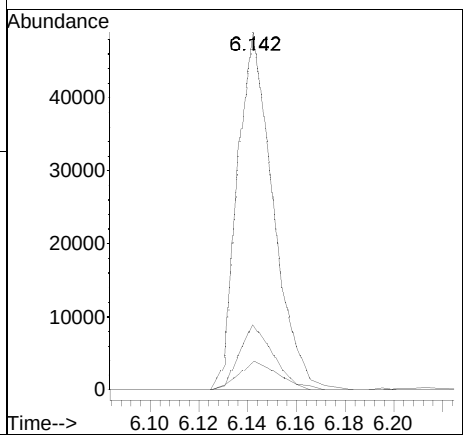


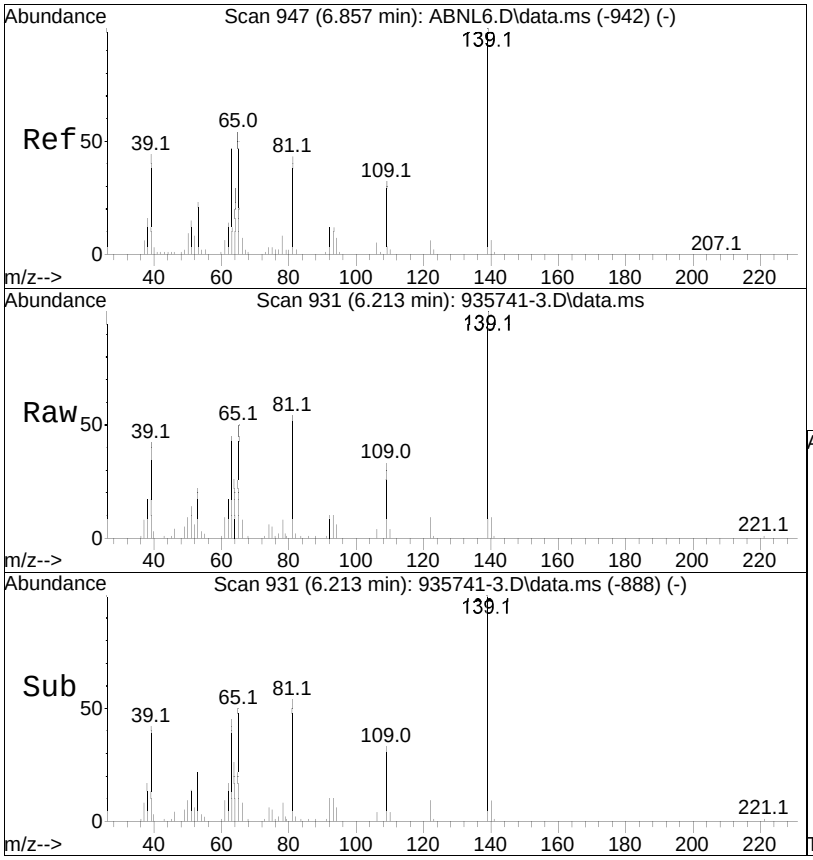


#21
Isophorone
Concen: 1.37 ug/ml
RT: 6.142 min Scan# 919
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 82 Resp: 49444

Ion	Ratio	Lower	Upper
82	100		
138	17.6	14.7	22.1
95	8.7	5.2	7.8#

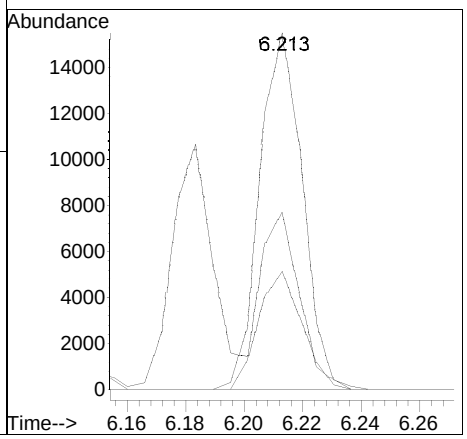


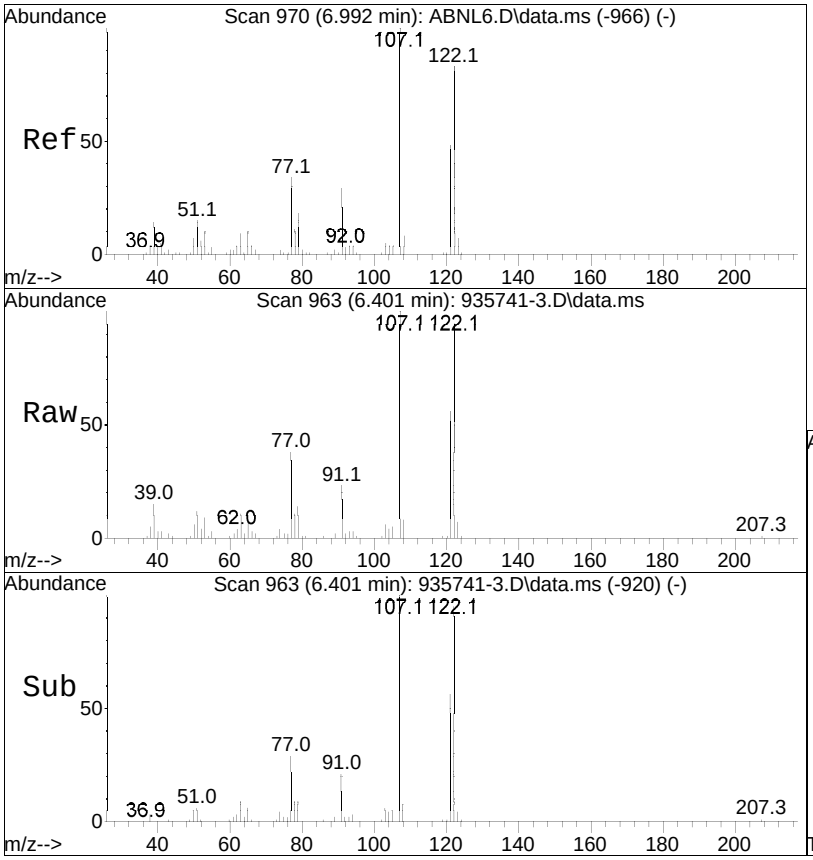


#22
2-Nitrophenol
Concen: 1.86 ug/ml
RT: 6.213 min Scan# 931
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:139 Resp: 15704

Ion	Ratio	Lower	Upper
139	100		
109	33.8	19.4	29.0#
65	44.4	46.1	69.1#

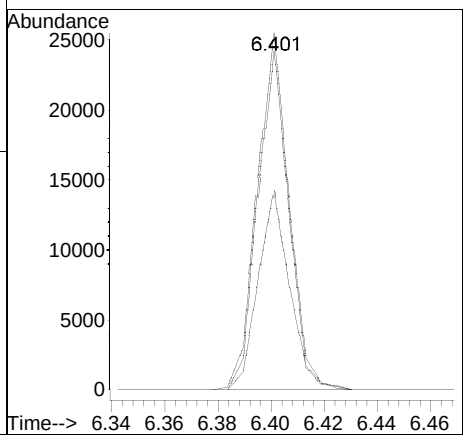


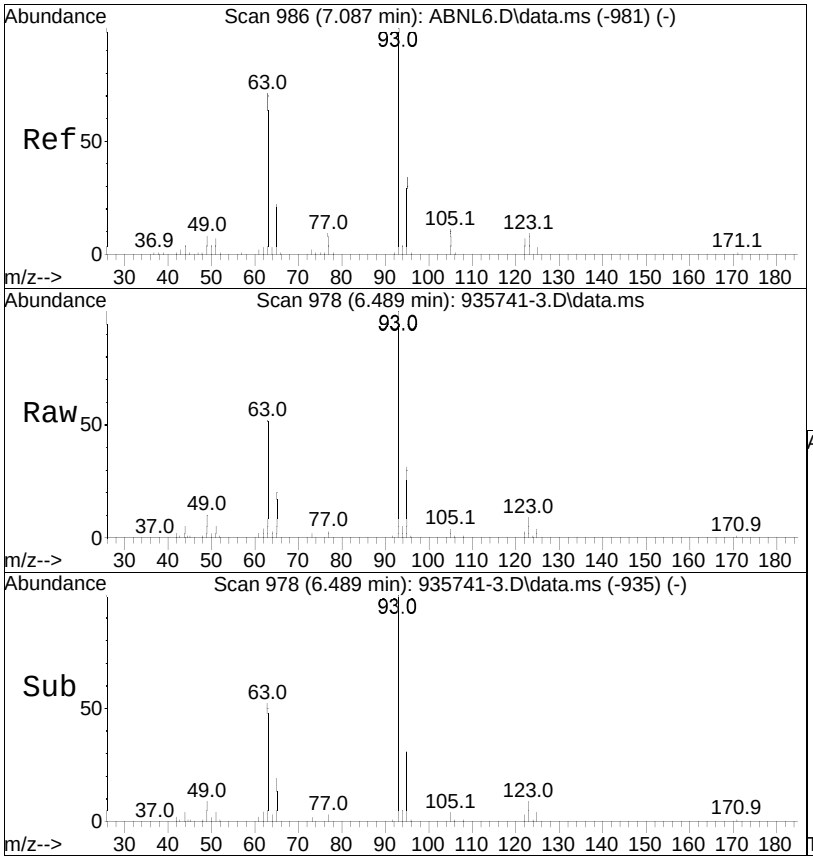


#23
2,4-Dimethylphenol
Concen: 1.24 ug/ml
RT: 6.401 min Scan# 963
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:107 Resp: 21200

Ion	Ratio	Lower	Upper
107	100		
121	55.3	40.0	60.0
122	91.7	70.2	105.4

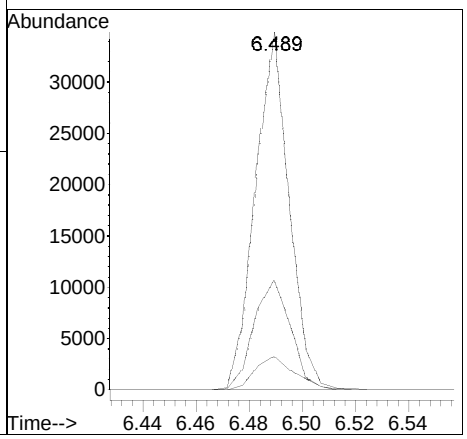


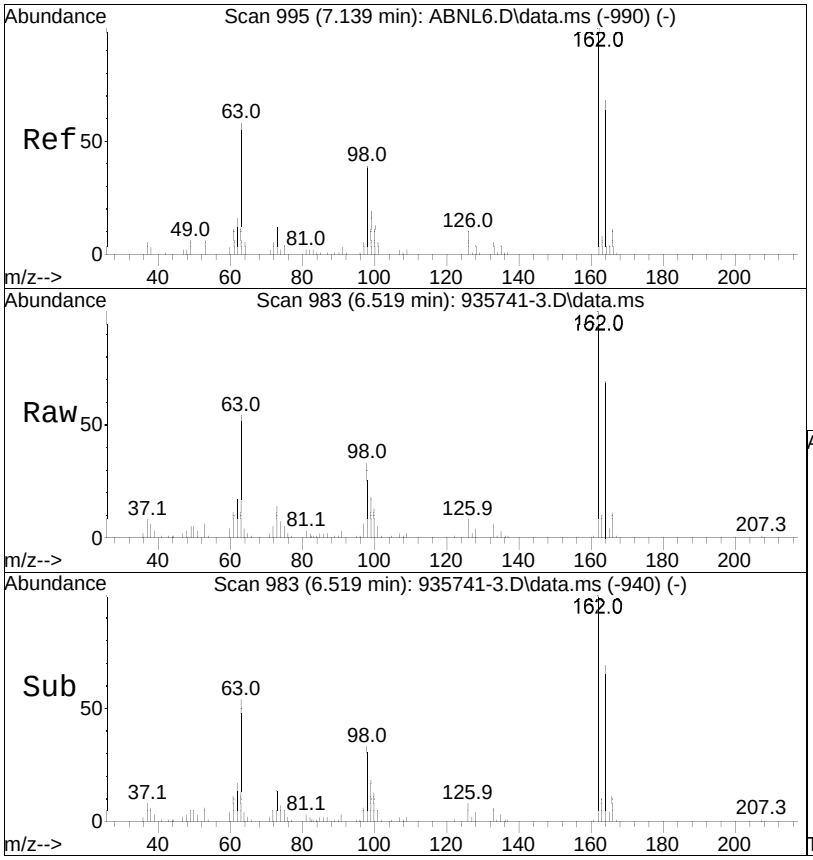


#24
Bis(2-chloroethoxy)methane
Concen: 1.34 ug/ml
RT: 6.489 min Scan# 978
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 93 Resp: 30488

Ion	Ratio	Lower	Upper
93	100		
95	33.8	25.8	38.8
123	11.0	10.1	15.1

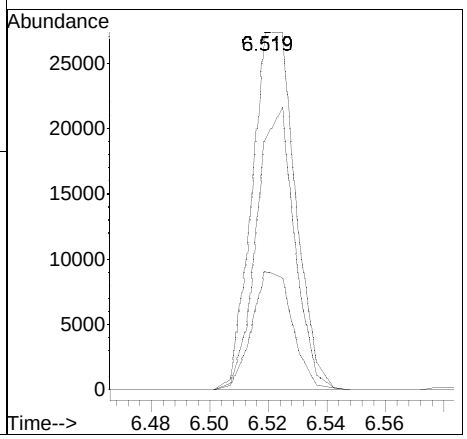


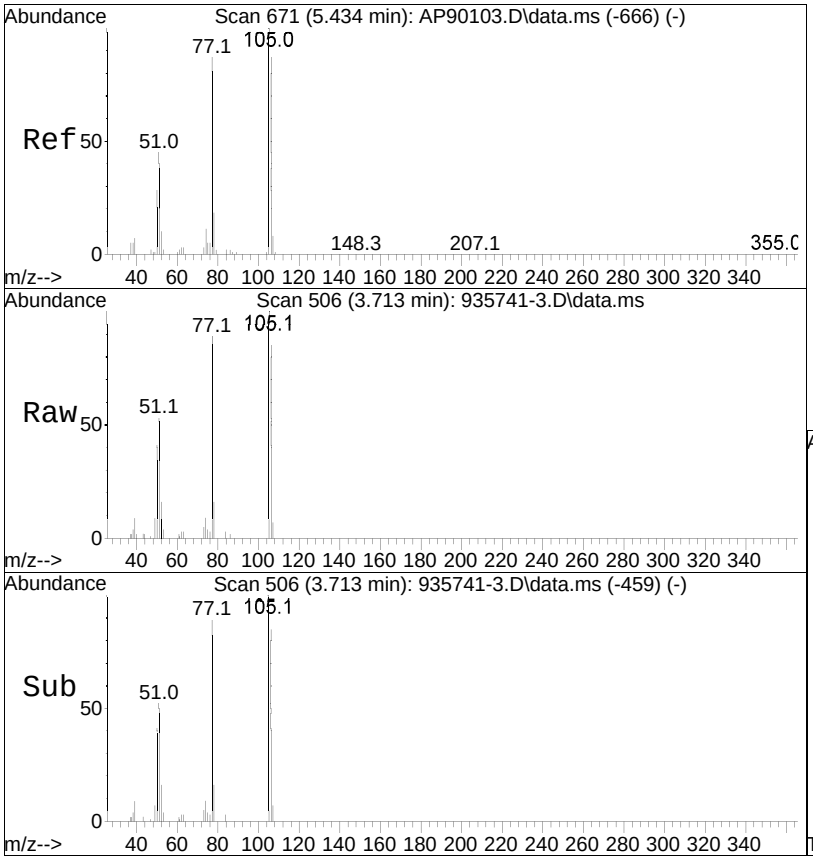


#25
2,4-Dichlorophenol
Concen: 1.80 ug/ml
RT: 6.519 min Scan# 983
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:162 Resp: 28048

Ion	Ratio	Lower	Upper
162	100		
164	69.4	51.0	76.4
98	31.1	32.2	48.2#

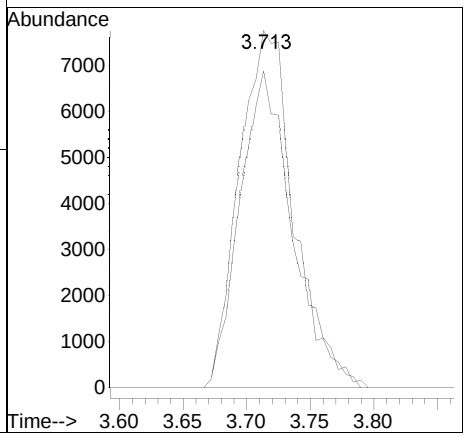


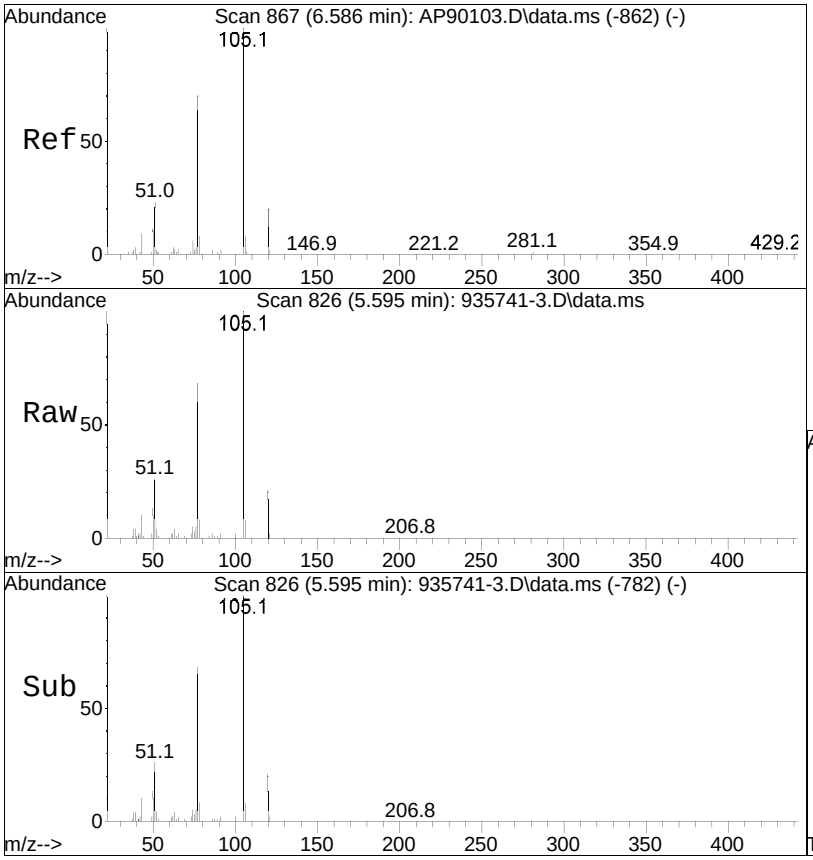


#28
Benzaldehyde
Concen: 1.56 ug/ml
RT: 3.713 min Scan# 506
Delta R.T. 0.024 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:105 Resp: 23245

Ion	Ratio	Lower	Upper
105	100		
77	85.5	82.2	123.4

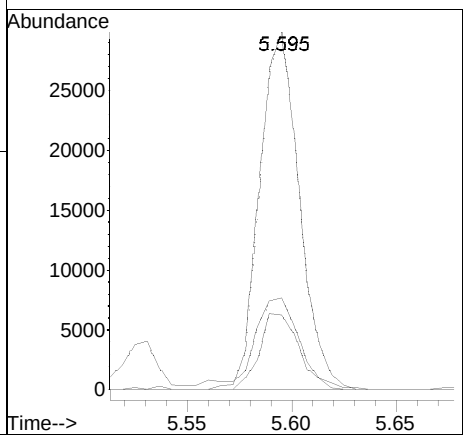


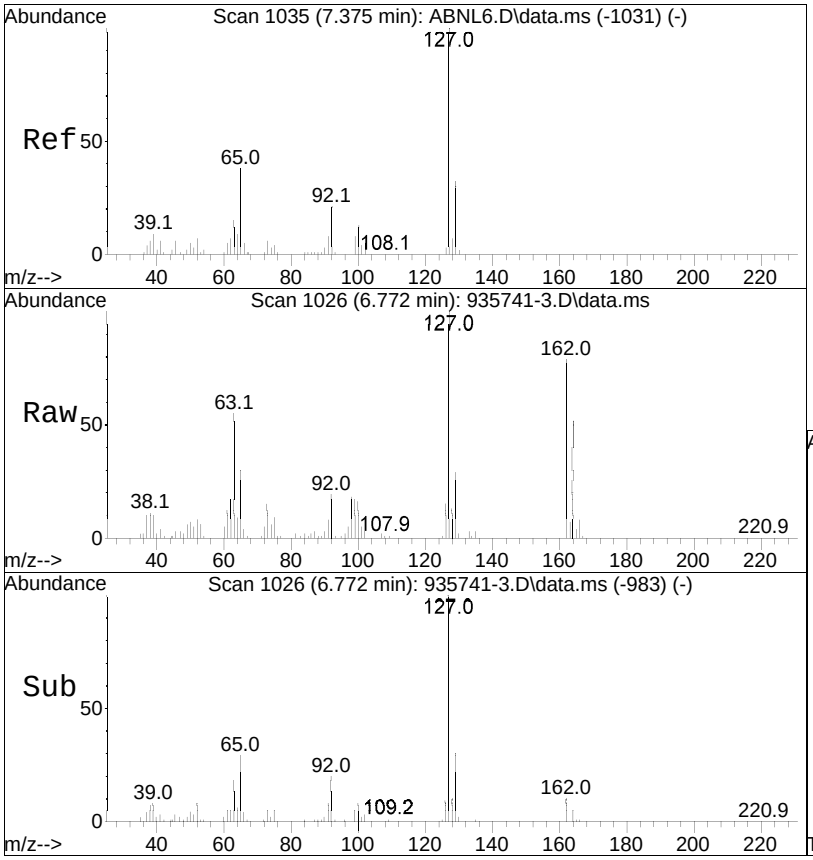


#29
Acetophenone
Concen: 1.46 ug/ml
RT: 5.595 min Scan# 826
Delta R.T. 0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:105 Resp: 39166

Ion	Ratio	Lower	Upper
105	100		
120	21.2	20.5	30.7
51	30.3	34.9	52.3#

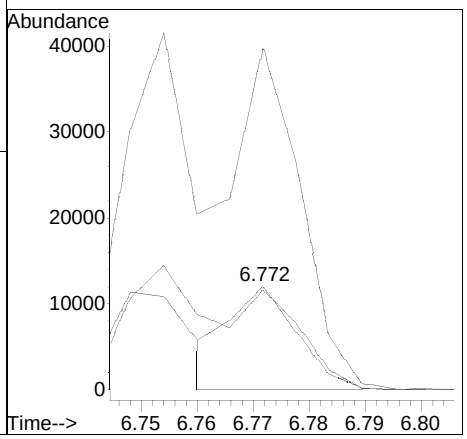


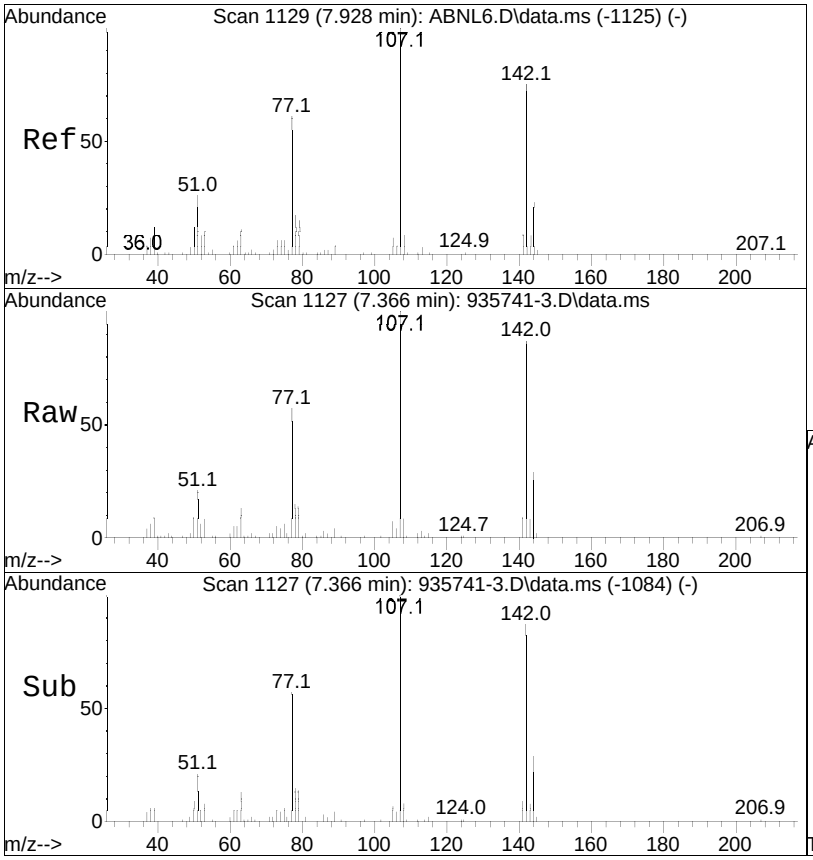


#37
4-Chloroaniline
Concen: 1.29 ug/ml M3
RT: 6.772 min Scan# 1026
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 65 Resp: 10180

Ion	Ratio	Lower	Upper
65	100		
127	346.5	237.6	356.4
129	150.3	76.3	114.5#

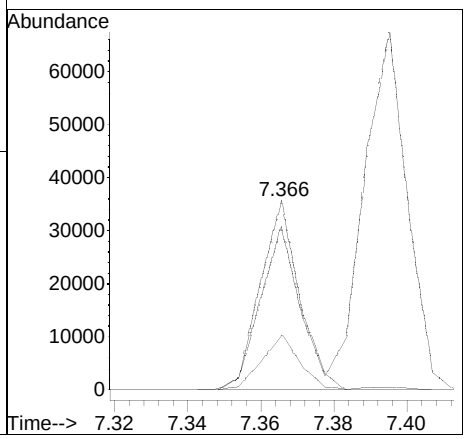


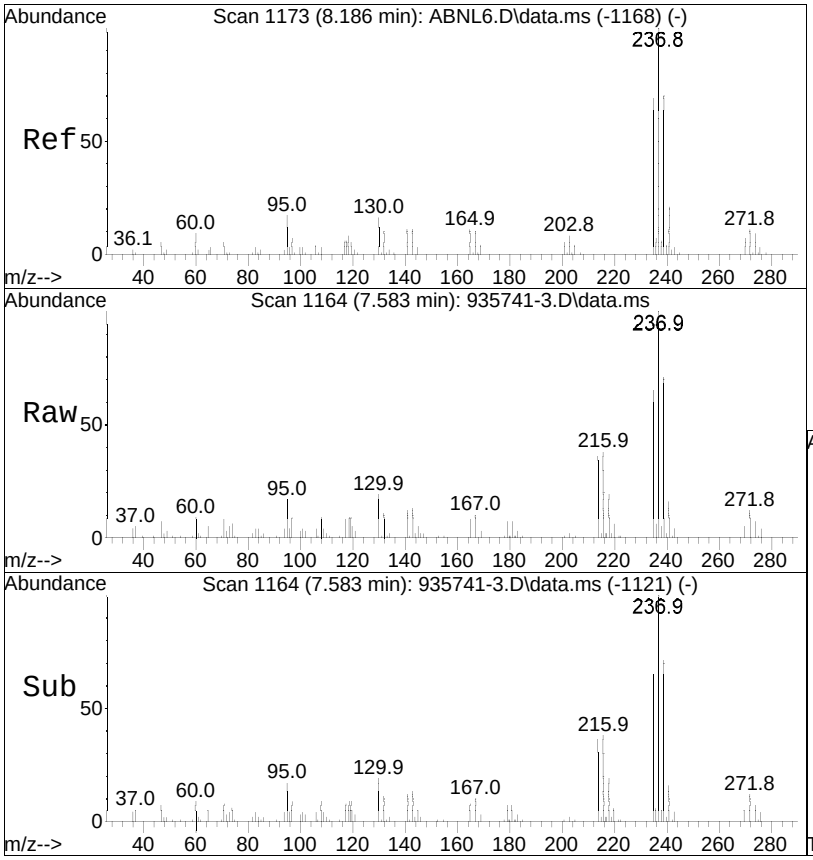


#39
p-Chloro-m-cresol
Concen: 1.65 ug/ml
RT: 7.366 min Scan# 1127
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:107 Resp: 26481

Ion	Ratio	Lower	Upper
107	100		
144	28.5	20.9	31.3
142	87.9	66.1	99.1

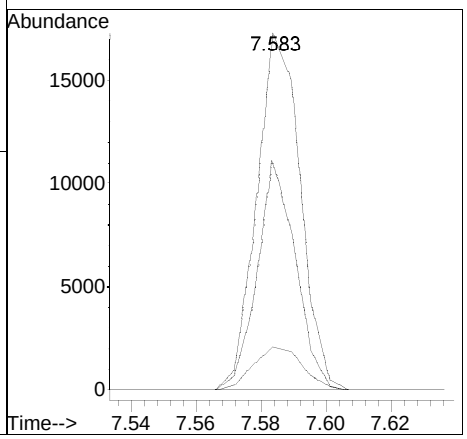


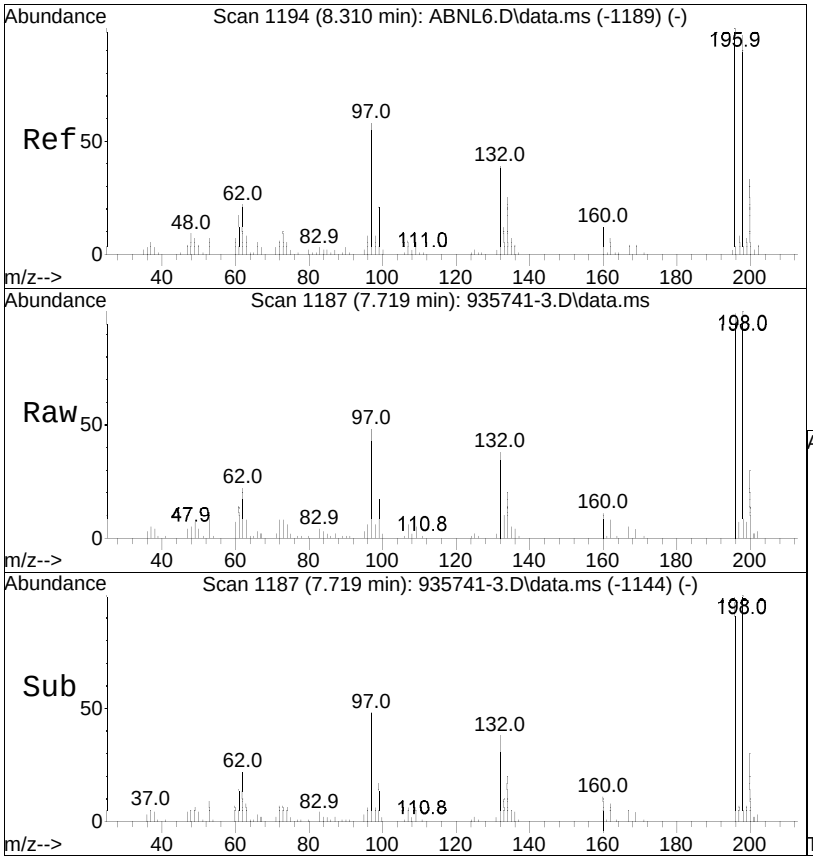


#42
Hexachlorocyclopentadiene
Concen: 1.19 ug/ml
RT: 7.583 min Scan# 1164
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:237 Resp: 15940

Ion	Ratio	Lower	Upper
237	100		
235	56.9	49.7	74.5
272	13.8	9.8	14.6

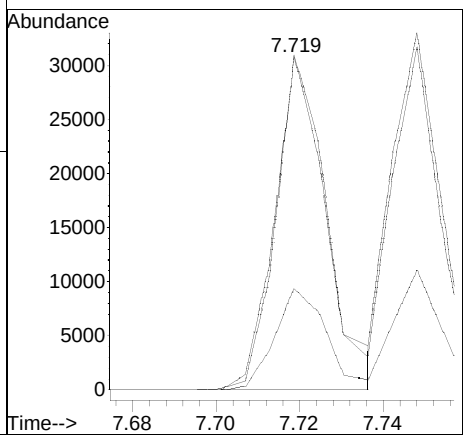


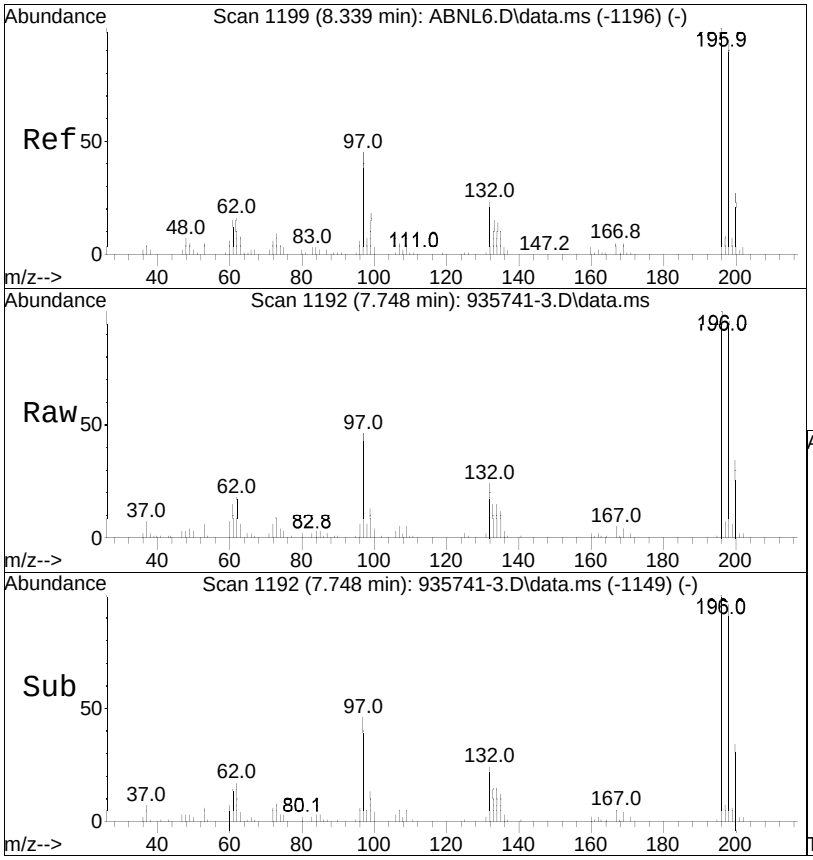


#43
2,4,6-Trichlorophenol
Concen: 2.01 ug/ml
RT: 7.719 min Scan# 1187
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:196 Resp: 26273

Ion	Ratio	Lower	Upper
196	100		
198	98.4	77.5	116.3
200	30.7	23.8	35.6

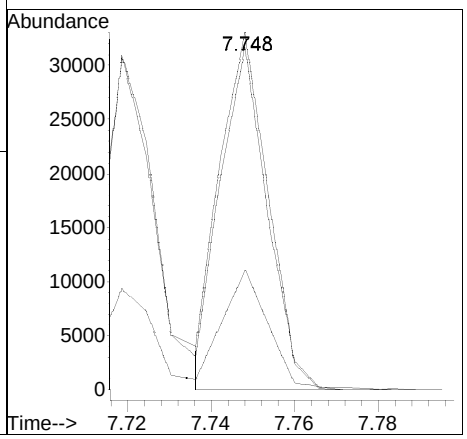


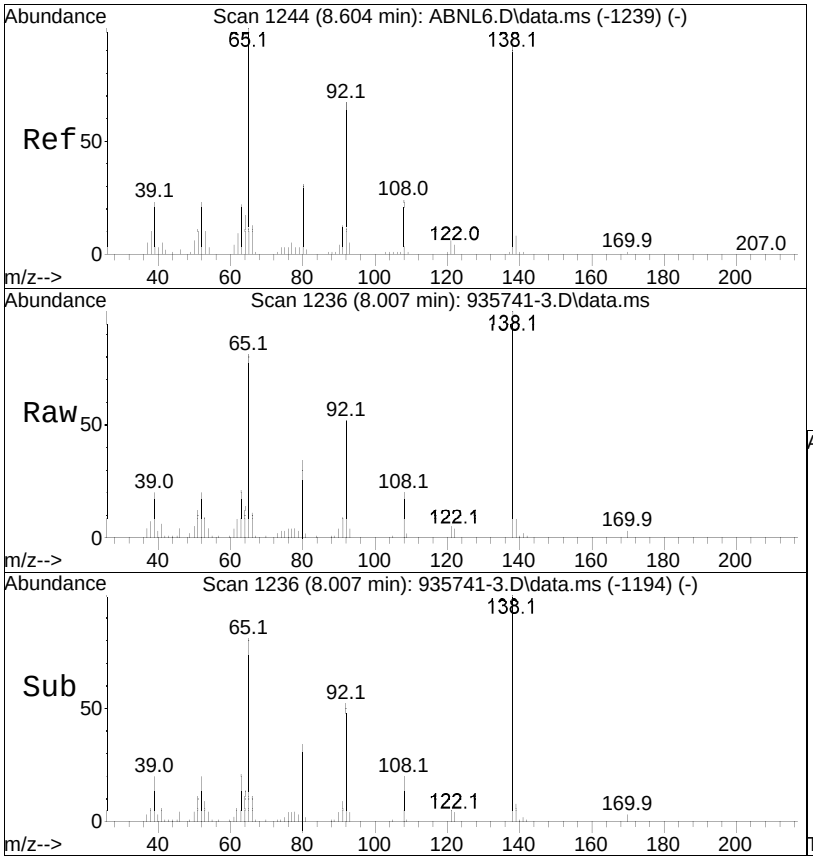


#44
2,4,5-Trichlorophenol
Concen: 1.84 ug/ml
RT: 7.748 min Scan# 1192
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:196 Resp: 26234

Ion	Ratio	Lower	Upper
196	100		
200	32.0	25.4	38.0
198	94.0	78.0	117.0

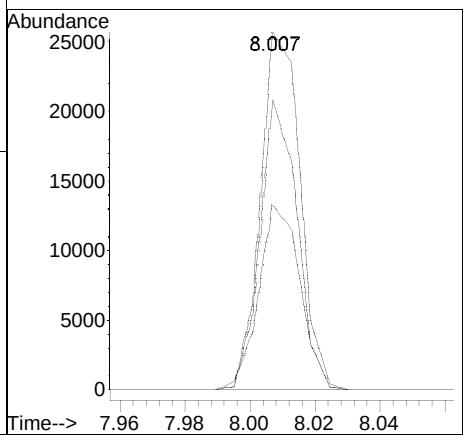


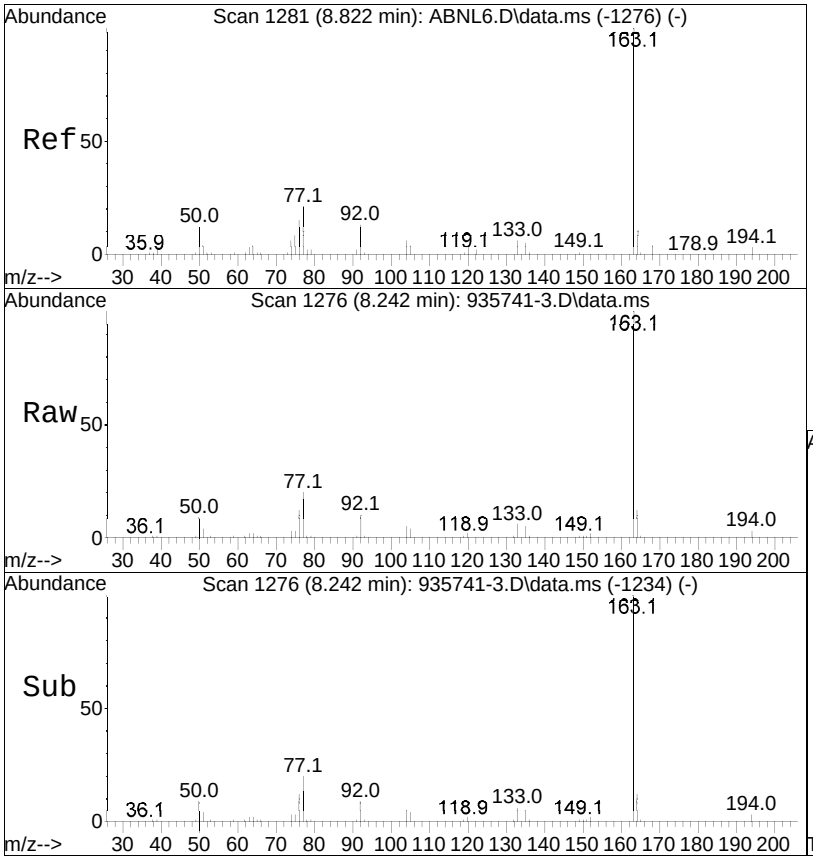


#47
2-Nitroaniline
Concen: 2.04 ug/ml
RT: 8.007 min Scan# 1236
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:138 Resp: 21618

Ion	Ratio	Lower	Upper
138	100		
92	54.2	53.5	80.3
65	75.8	86.3	129.5#

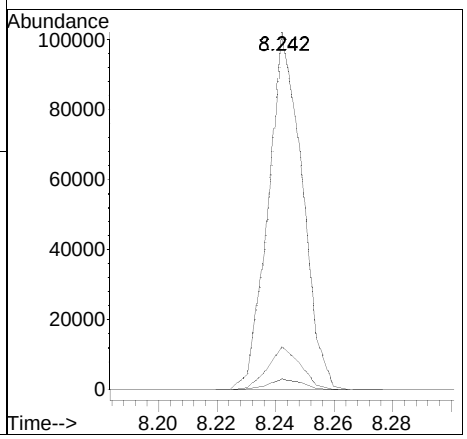


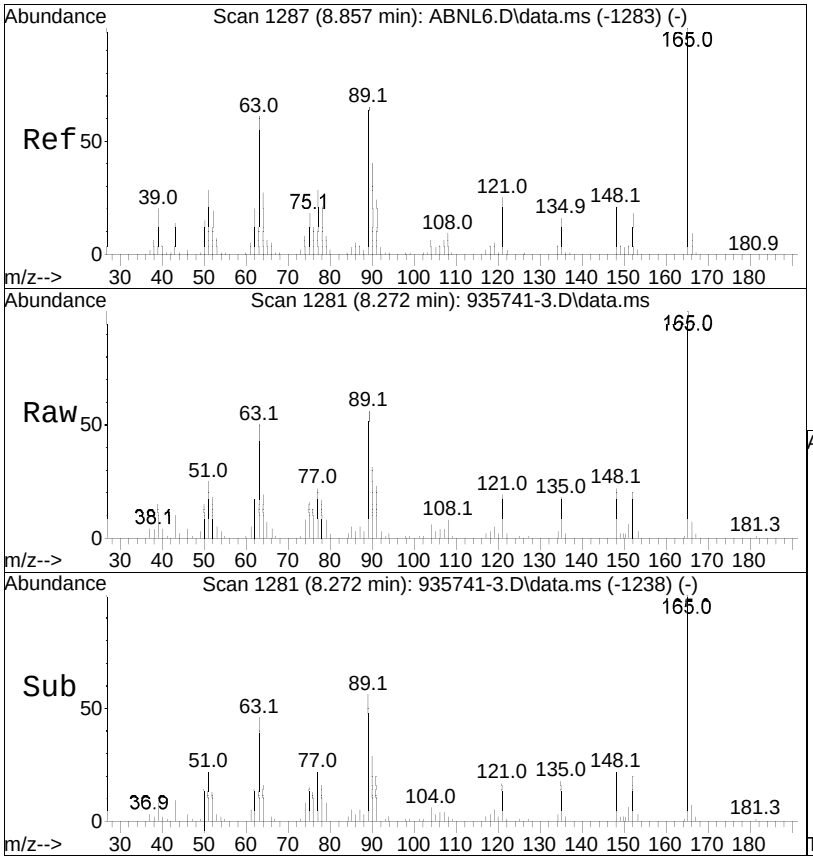


#50
Dimethyl phthalate
Concen: 1.69 ug/ml
RT: 8.242 min Scan# 1276
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:163 Resp: 81401

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	11.8	7.9	11.9

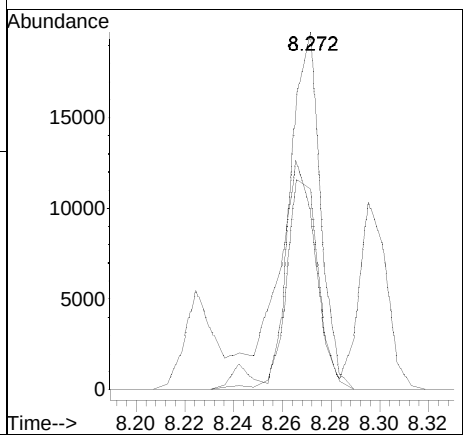


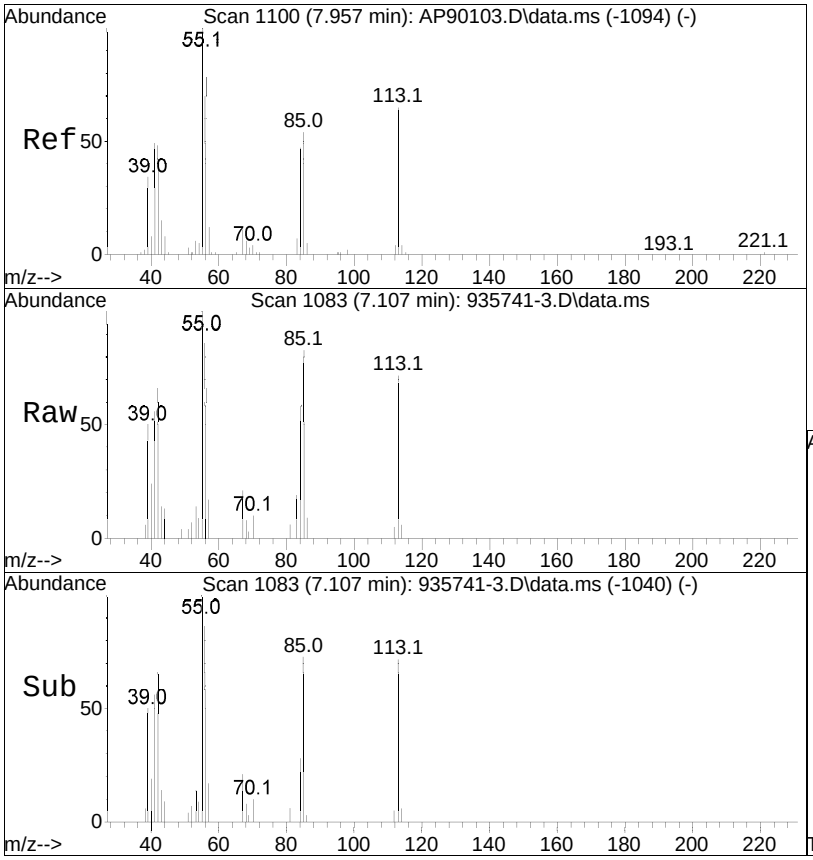


#52
2,6-Dinitrotoluene
Concen: 1.81 ug/ml
RT: 8.272 min Scan# 1281
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:165 Resp: 17511

Ion	Ratio	Lower	Upper
165	100		
89	60.6	54.2	81.2
63	74.5	64.2	96.2

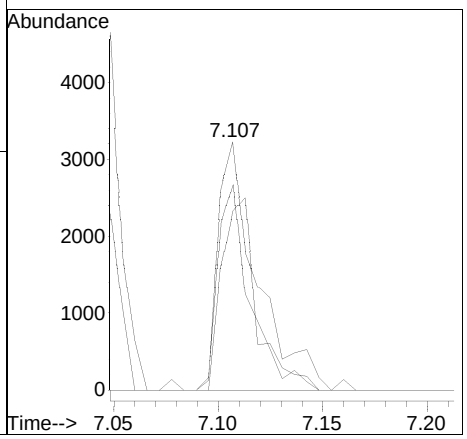


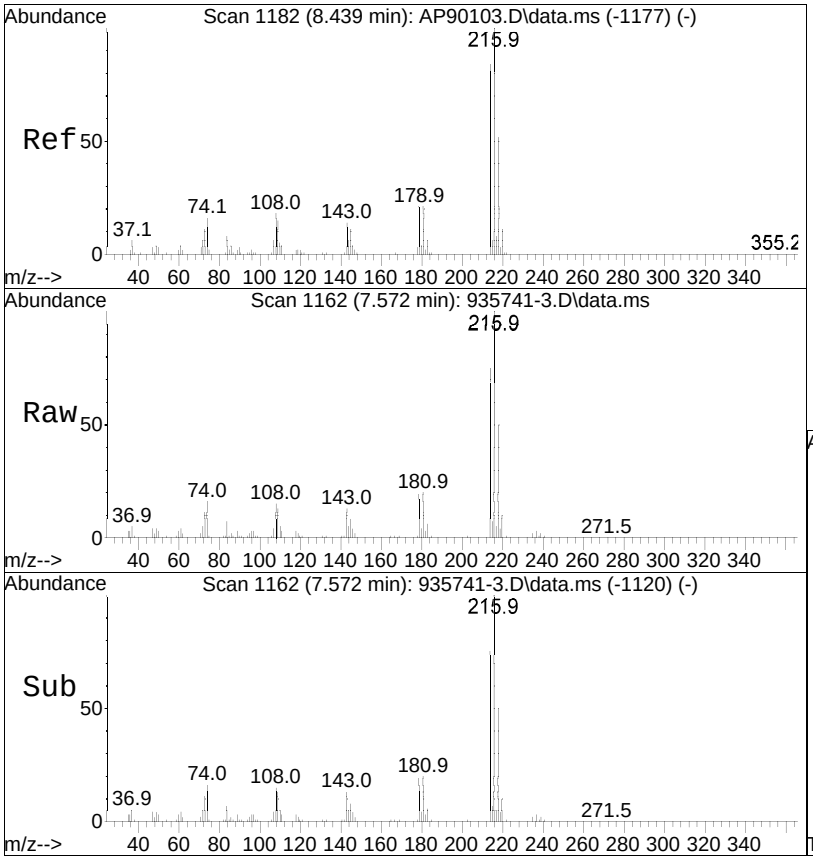


#59
Caprolactam
Concen: 0.49 ug/ml
RT: 7.107 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 55 Resp: 4239

Ion	Ratio	Lower	Upper
55	100		
85	68.2	19.8	29.6#
113	69.2	29.6	44.4#

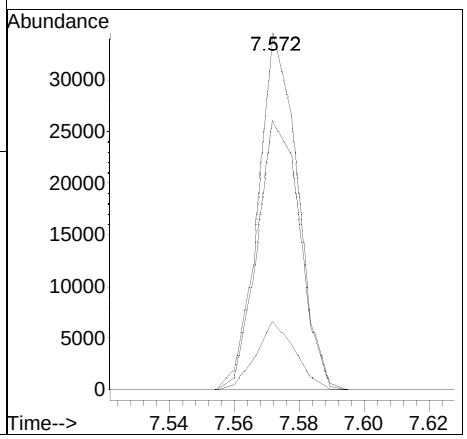


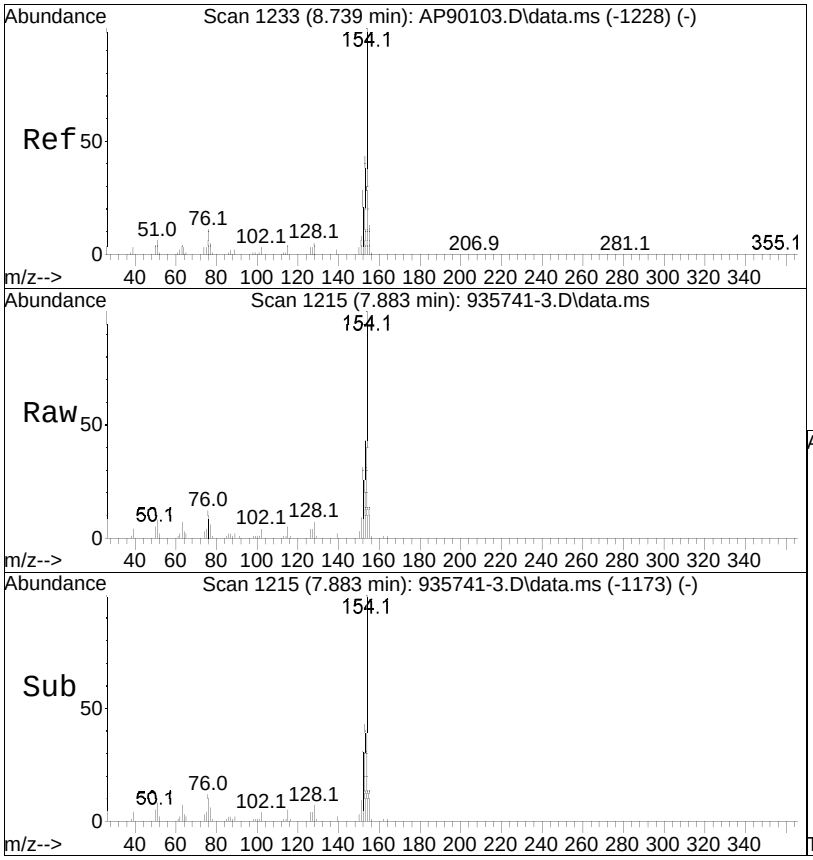


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.28 ug/ml
RT: 7.572 min Scan# 1162
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:216 Resp: 29099

Ion	Ratio	Lower	Upper
216	100		
214	81.8	63.7	95.5
179	19.2	19.0	28.6

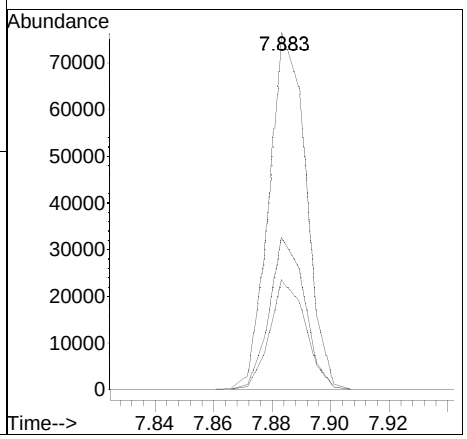


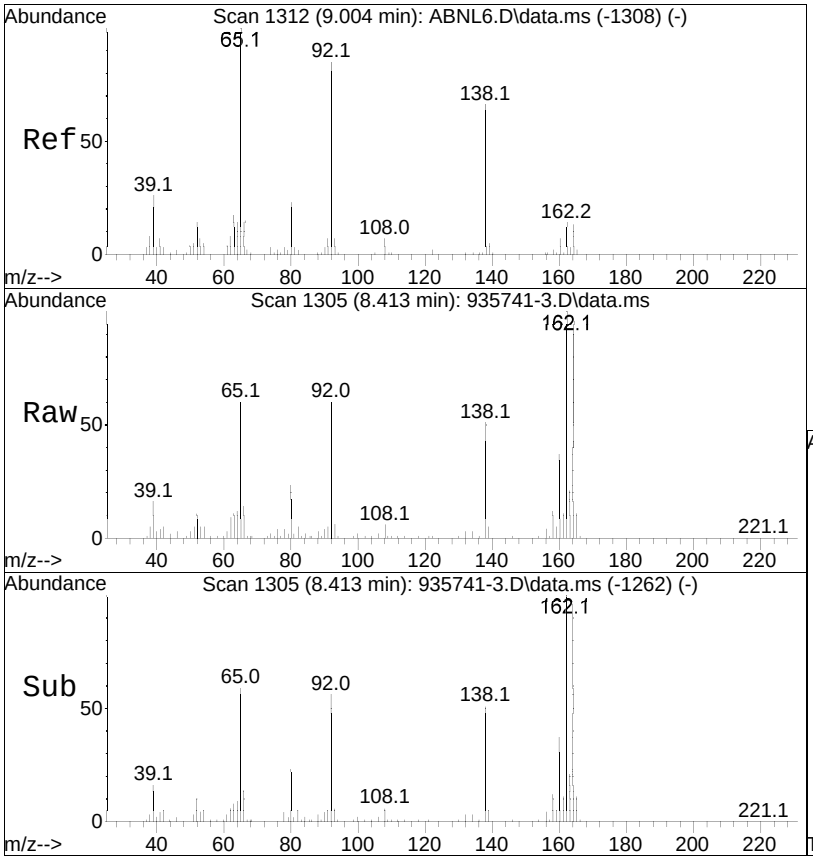


#61
Biphenyl
Concen: 1.51 ug/ml
RT: 7.883 min Scan# 1215
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:154 Resp: 66918

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	30.0	22.5	33.7

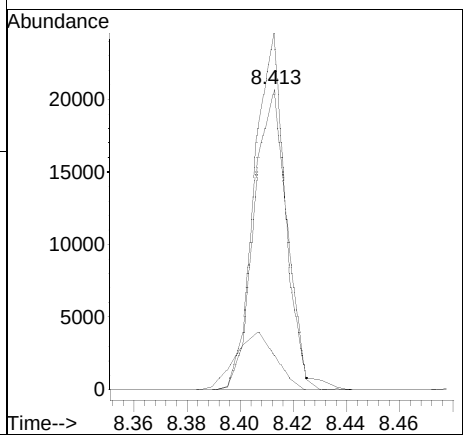


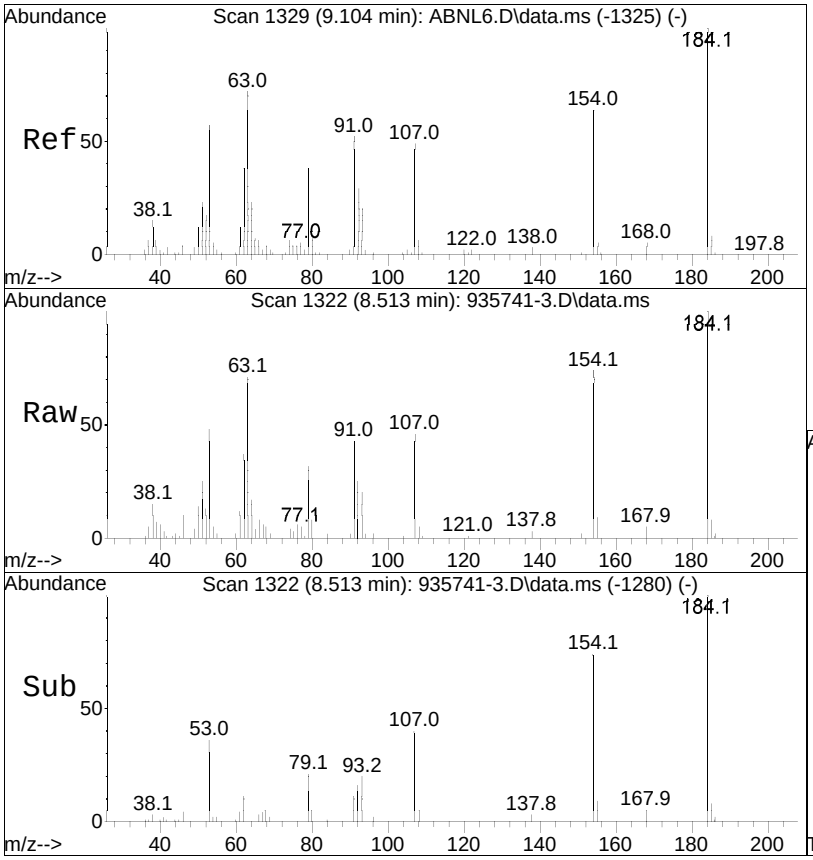


#63
3-Nitroaniline
Concen: 1.83 ug/ml
RT: 8.413 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:138 Resp: 17673

Ion	Ratio	Lower	Upper
138	100		
92	112.6	93.4	140.2
108	23.7	9.5	14.3#

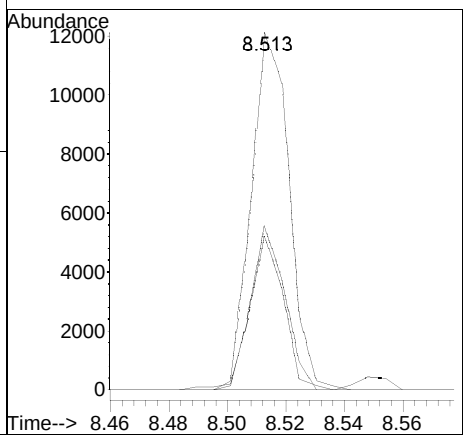


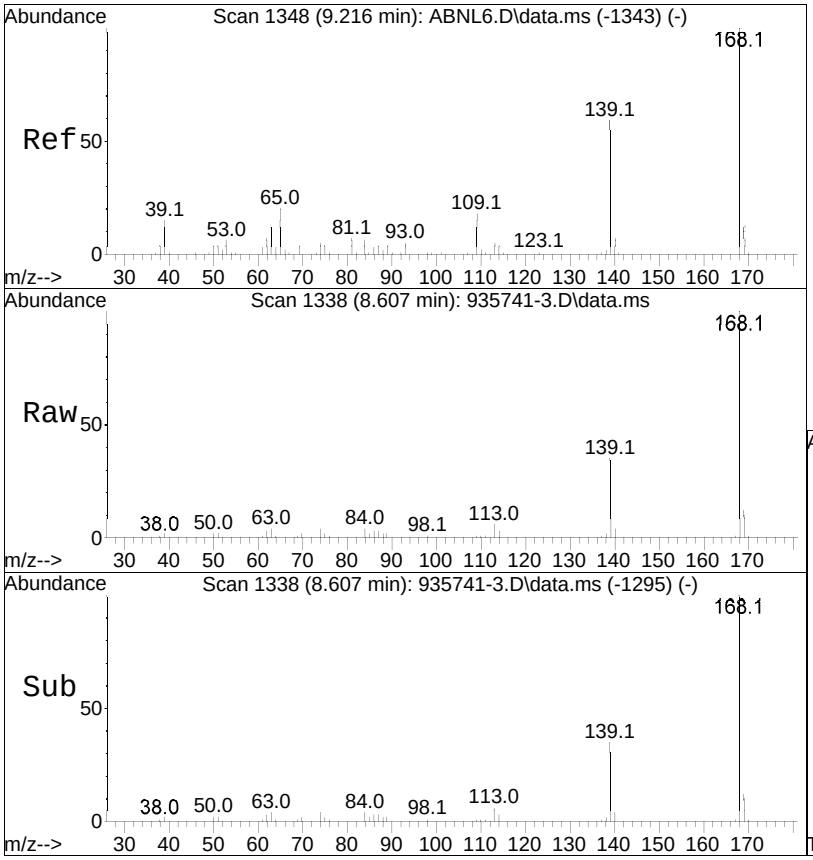


#65
2,4-Dinitrophenol
Concen: 2.00 ug/ml
RT: 8.513 min Scan# 1322
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:184 Resp: 10813

Ion	Ratio	Lower	Upper
184	100		
107	41.7	37.7	56.5
91	38.8	46.3	69.5#

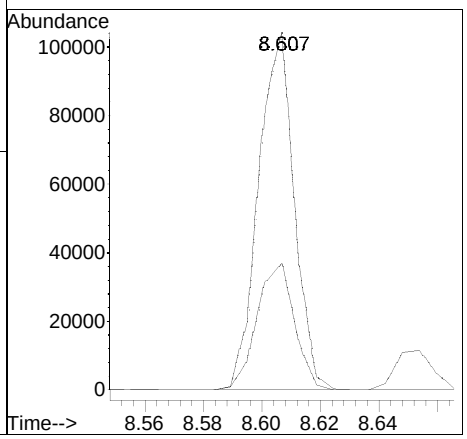


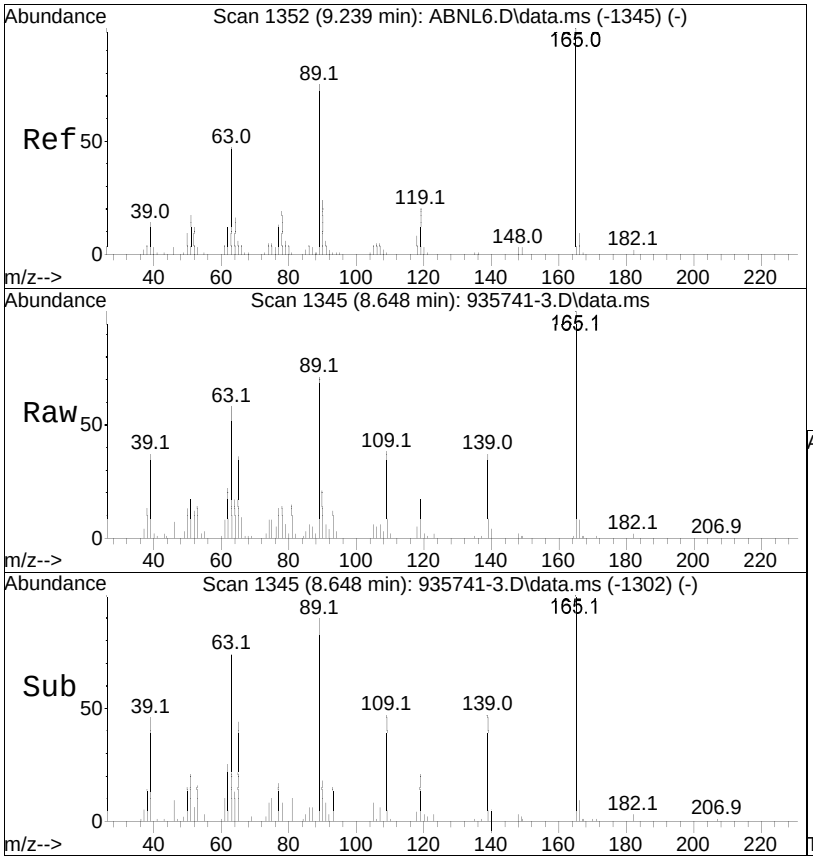


#66
Dibenzofuran
Concen: 1.53 ug/ml
RT: 8.607 min Scan# 1338
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:168 Resp: 87129

Ion	Ratio	Lower	Upper
168	100		
139	37.5	31.4	47.2

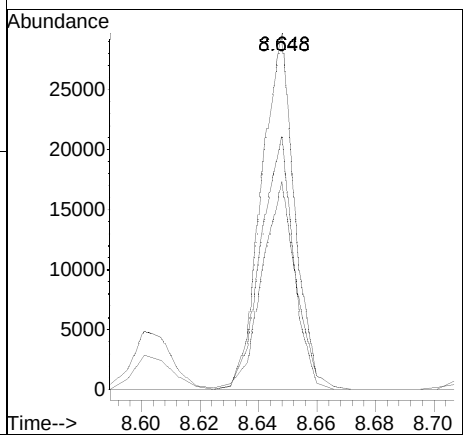


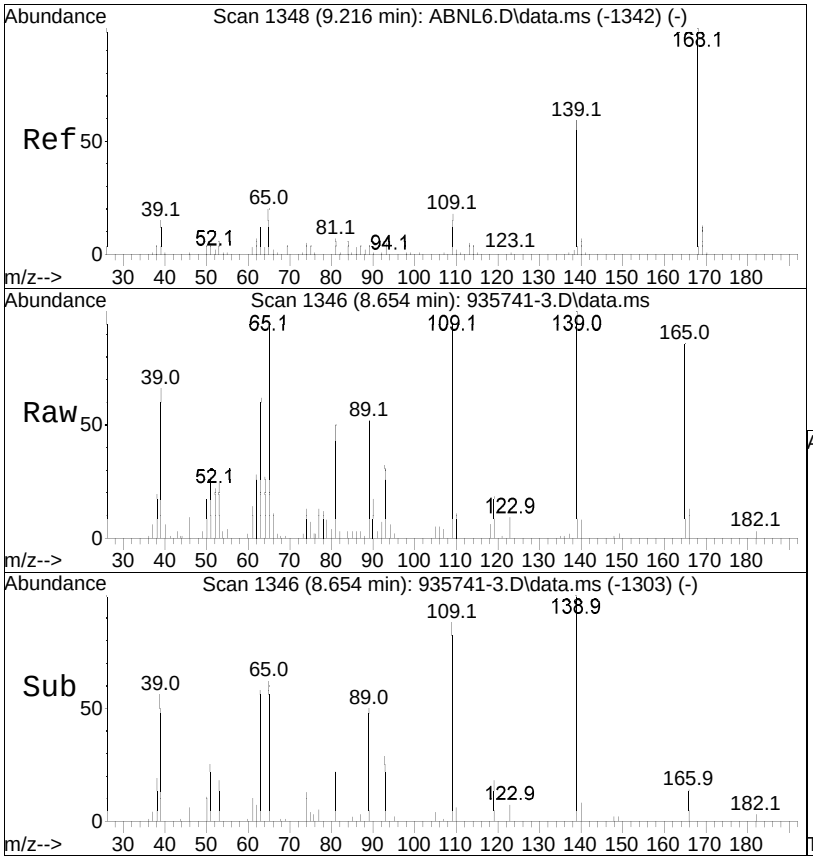


#67
2,4-Dinitrotoluene
Concen: 1.77 ug/ml
RT: 8.648 min Scan# 1345
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:165 Resp: 23213

Ion	Ratio	Lower	Upper
165	100		
89	69.7	72.0	108.0#
63	60.2	52.7	79.1

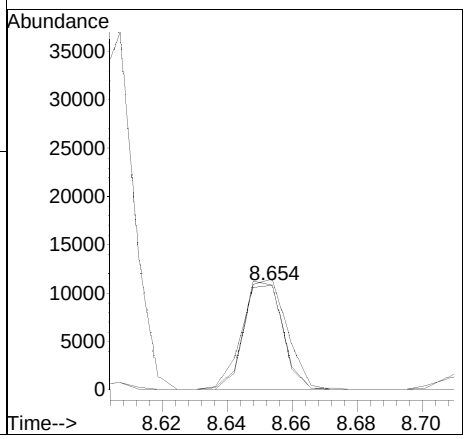


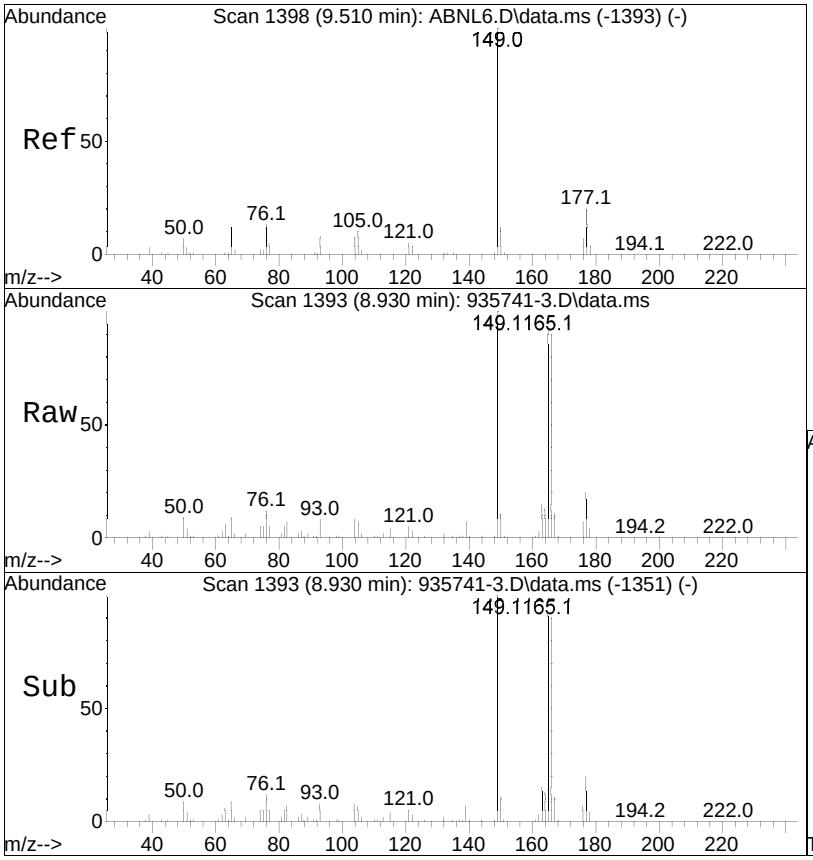


#68
4-Nitrophenol
Concen: 0.94 ug/ml
RT: 8.654 min Scan# 1346
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 65 Resp: 9757

Ion	Ratio	Lower	Upper
65	100		
109	96.0	47.4	71.2#
139	105.6	76.6	115.0

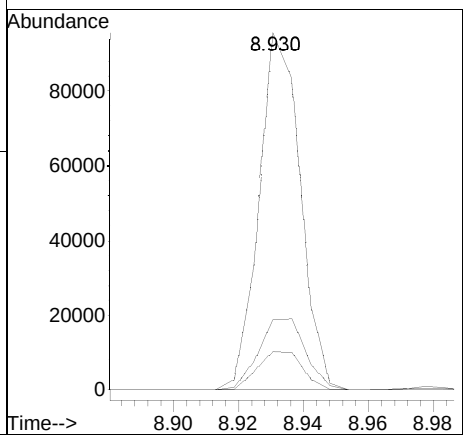


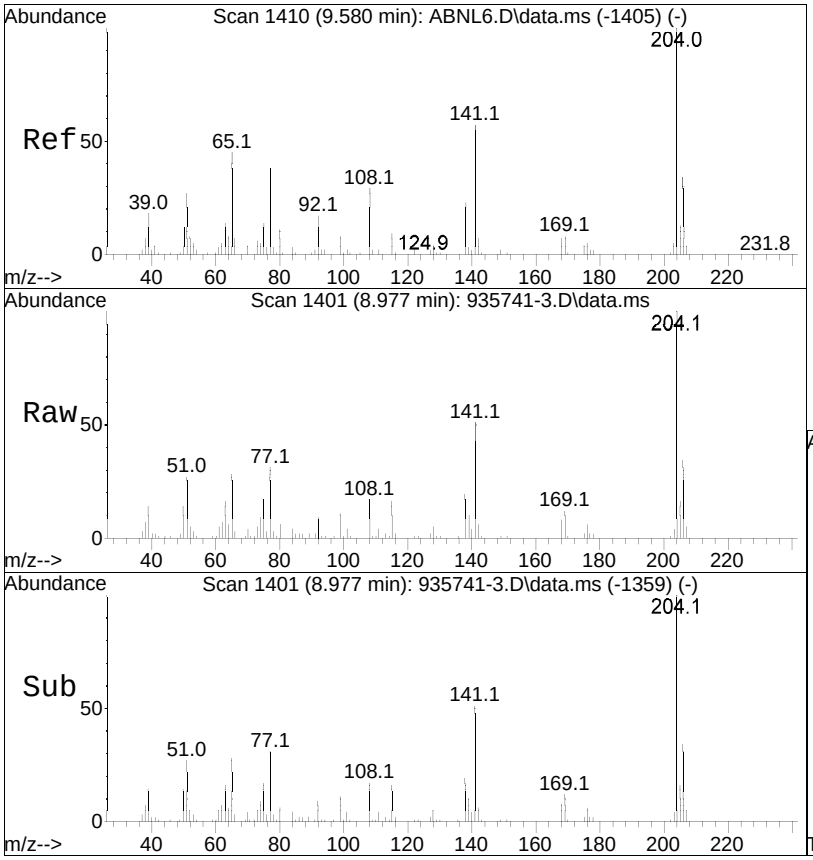


#71
Diethyl phthalate
Concen: 1.77 ug/ml
RT: 8.930 min Scan# 1393
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:149 Resp: 84021

Ion	Ratio	Lower	Upper
149	100		
177	22.7	16.1	24.1
150	11.9	9.4	14.2

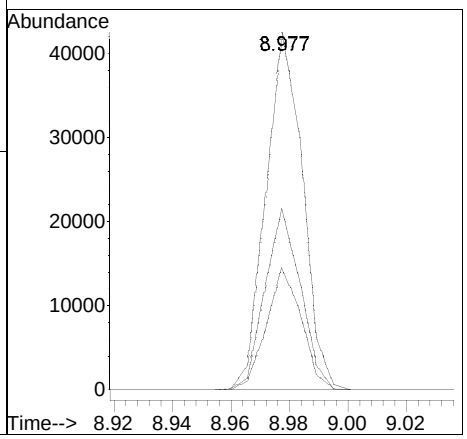


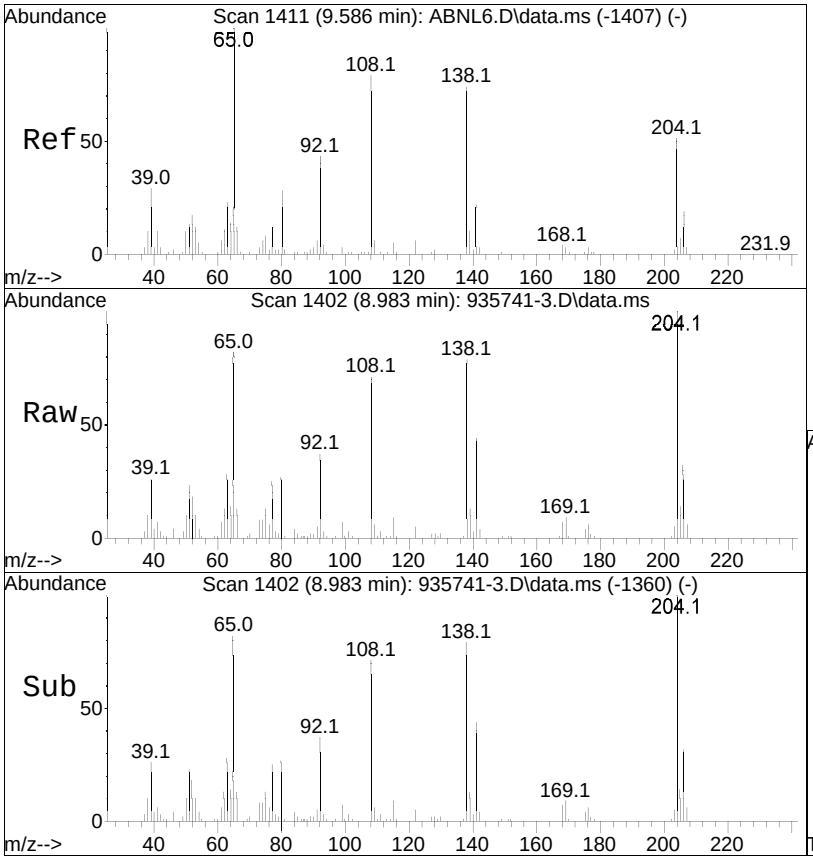


#73
4-Chlorophenyl phenyl ether
Concen: 1.56 ug/ml
RT: 8.977 min Scan# 1401
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:204 Resp: 36823

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	49.0	53.6	80.4#

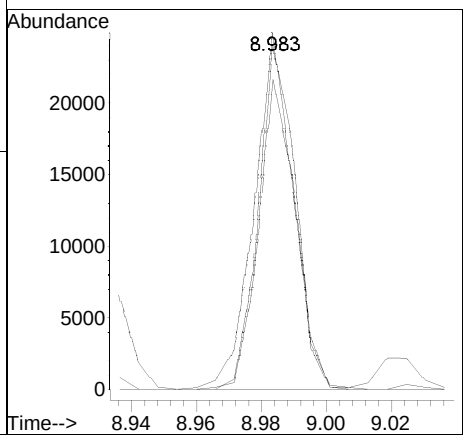


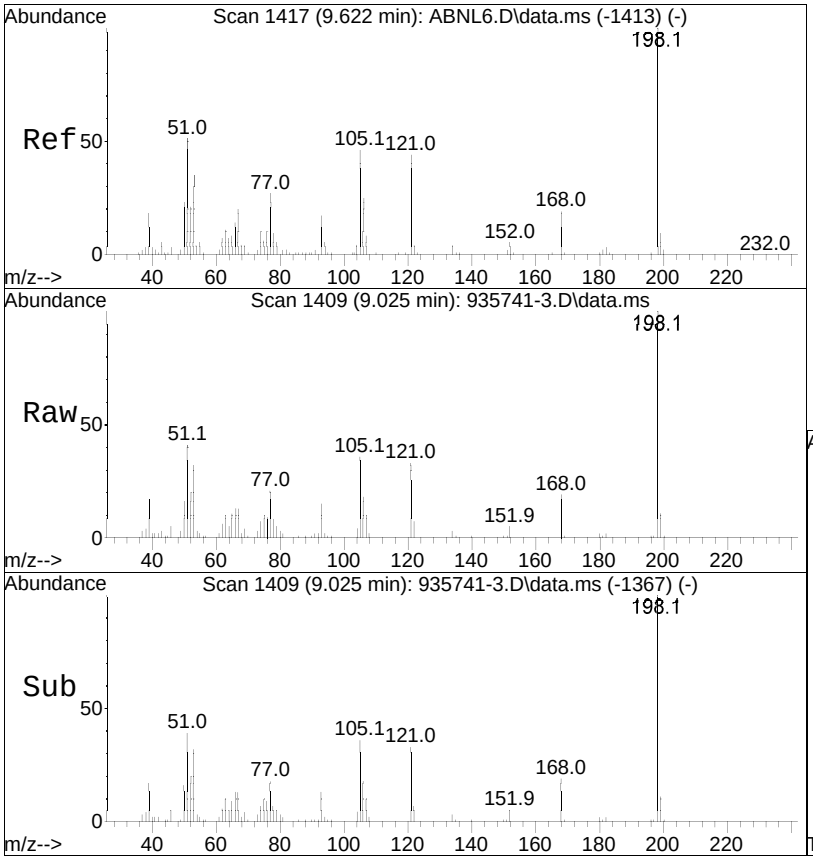


#74
4-Nitroaniline
Concen: 2.00 ug/ml
RT: 8.983 min Scan# 1402
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:138 Resp: 18841

Ion	Ratio	Lower	Upper
138	100		
108	91.0	52.1	78.1#
65	109.6	115.0	172.6#

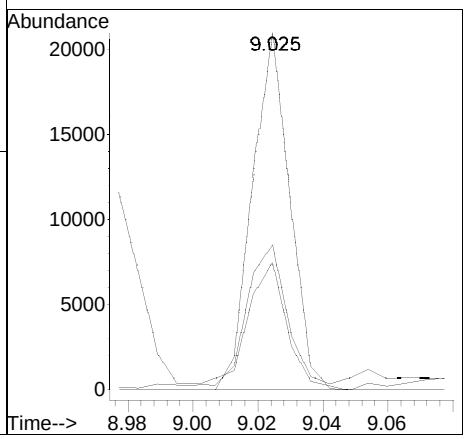


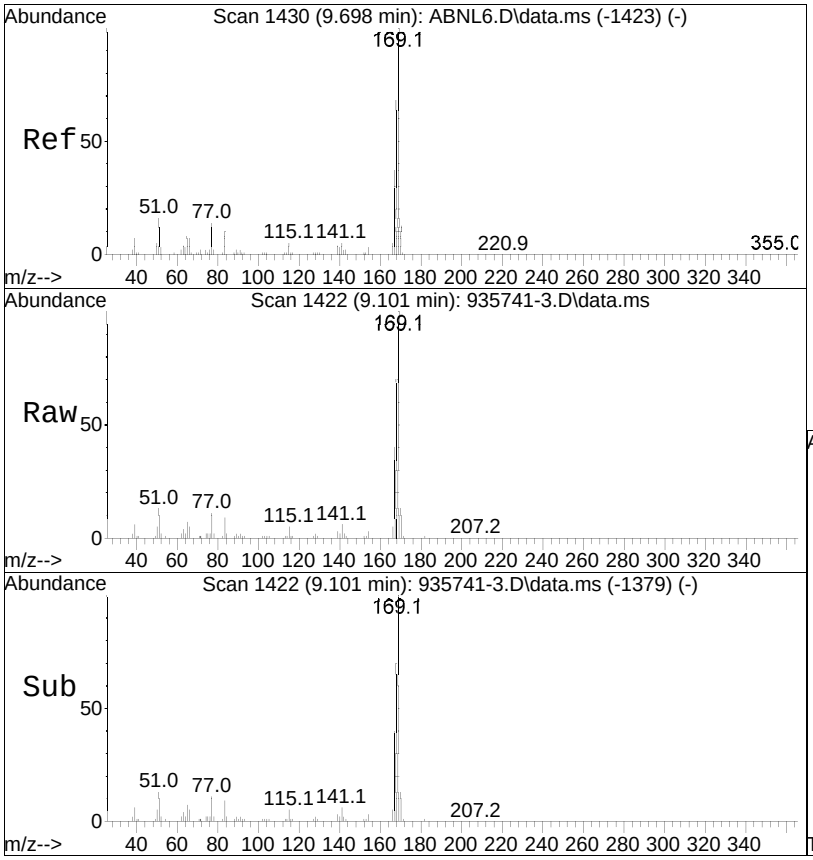


#75
4,6-Dinitro-o-cresol
Concen: 2.26 ug/ml
RT: 9.025 min Scan# 1409
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:198 Resp: 16715

Ion	Ratio	Lower	Upper
198	100		
51	44.5	76.0	114.0#
105	41.2	45.6	68.4#

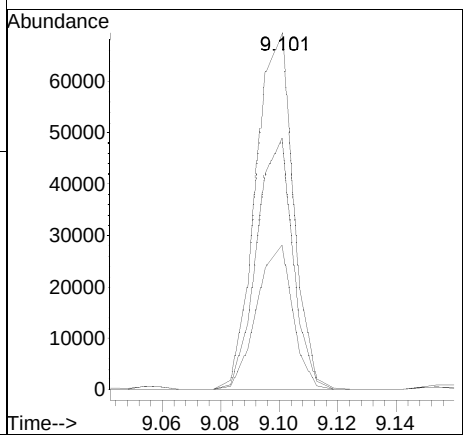


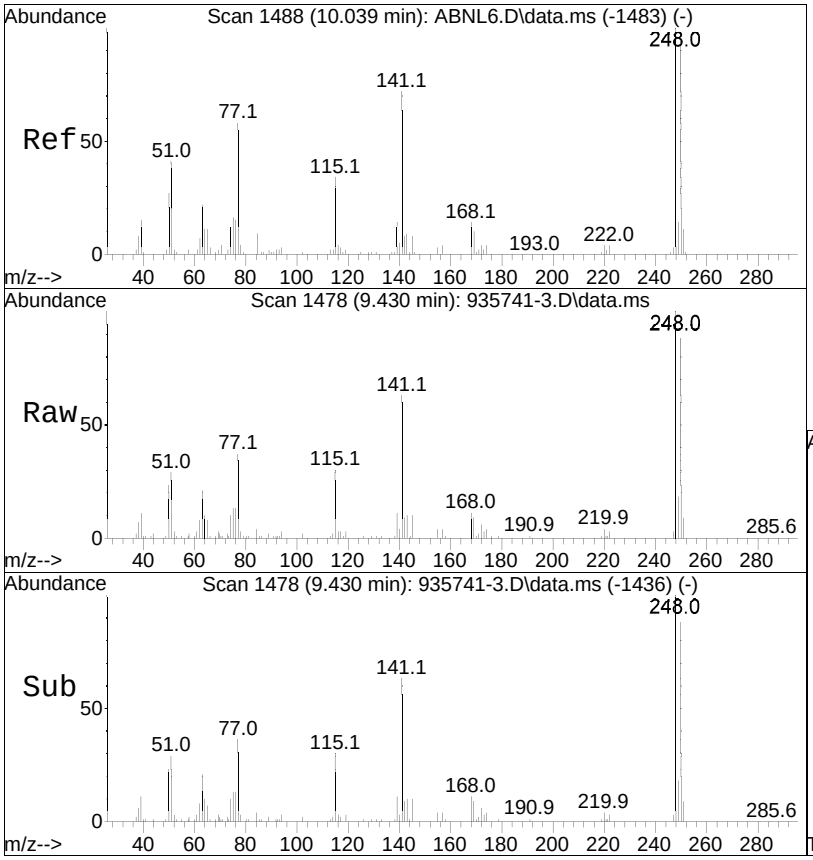


#76
NDPA/DPA
Concen: 1.68 ug/ml
RT: 9.101 min Scan# 1422
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:169 Resp: 61959

Ion	Ratio	Lower	Upper
169	100		
168	67.7	54.0	81.0
167	39.0	28.6	42.8

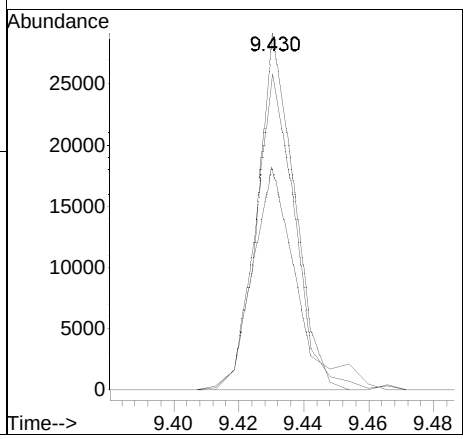


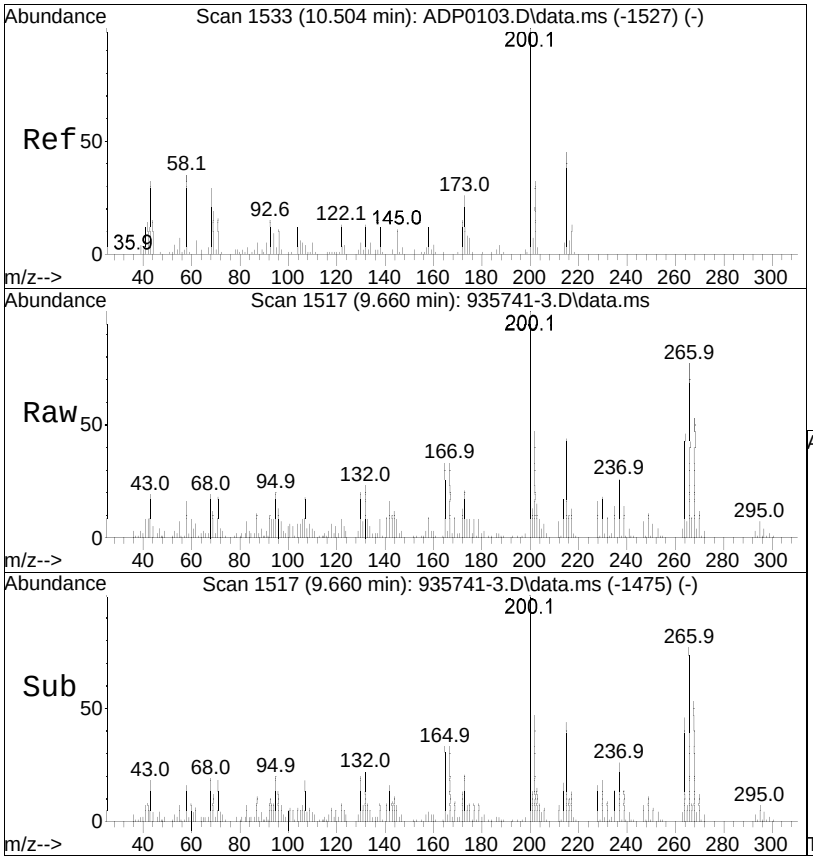


#79
4-Bromophenyl phenyl ether
Concen: 1.63 ug/ml
RT: 9.430 min Scan# 1478
Delta R.T. -0.006 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:248 Resp: 22941

Ion	Ratio	Lower	Upper
248	100		
141	74.7	76.6	114.8#
250	94.8	77.3	115.9

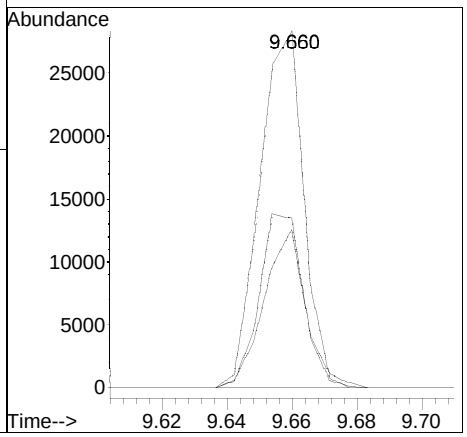


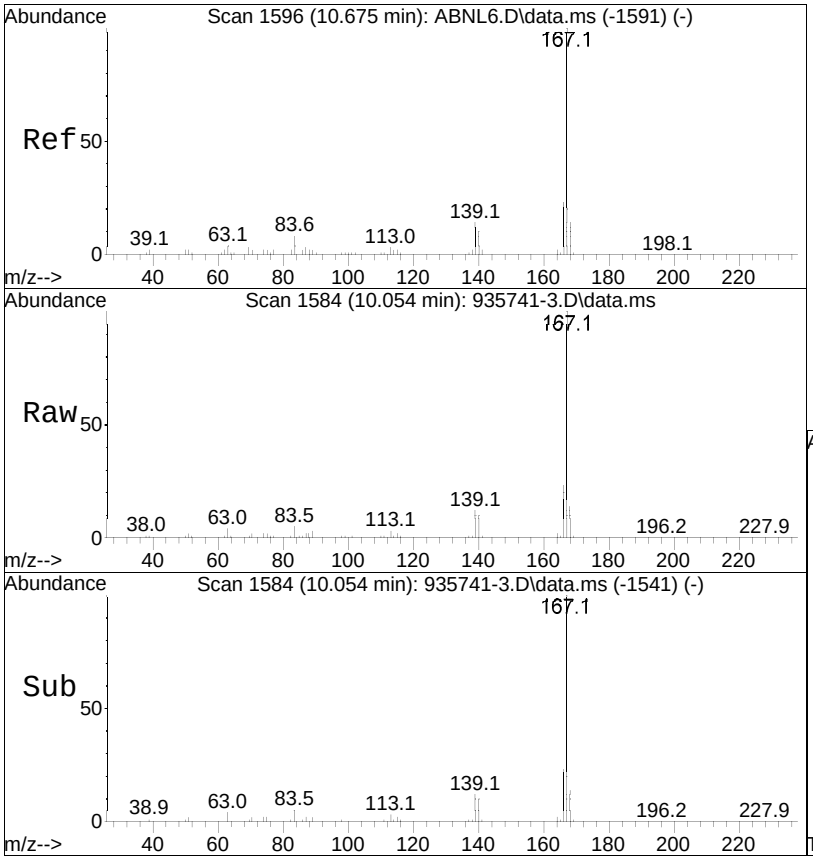


#86
Atrazine
Concen: 2.00 ug/ml
RT: 9.660 min Scan# 1517
Delta R.T. -0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:200 Resp: 26466

Ion	Ratio	Lower	Upper
200	100		
202	49.1	25.8	38.6#
215	42.7	40.2	60.4

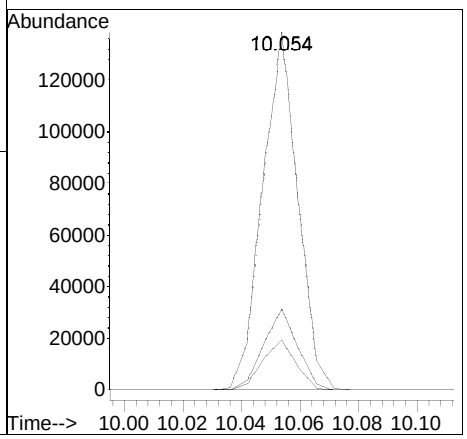


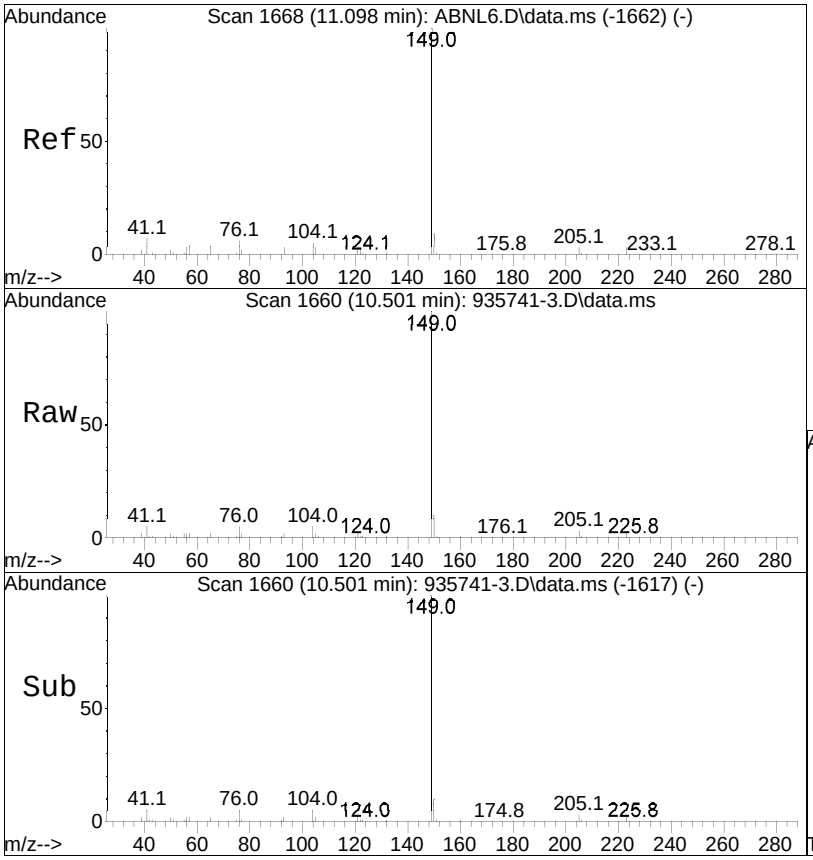


#90
Carbazole
Concen: 1.92 ug/ml
RT: 10.054 min Scan# 1584
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:167 Resp: 115071

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.0	17.4	26.0

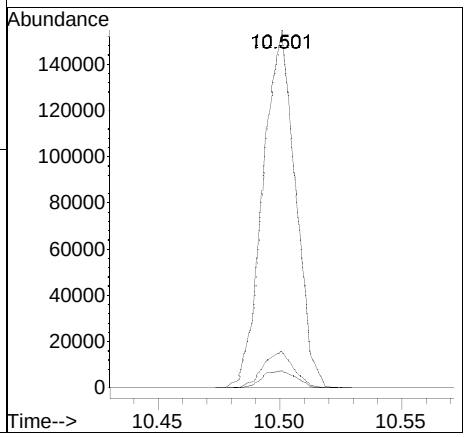


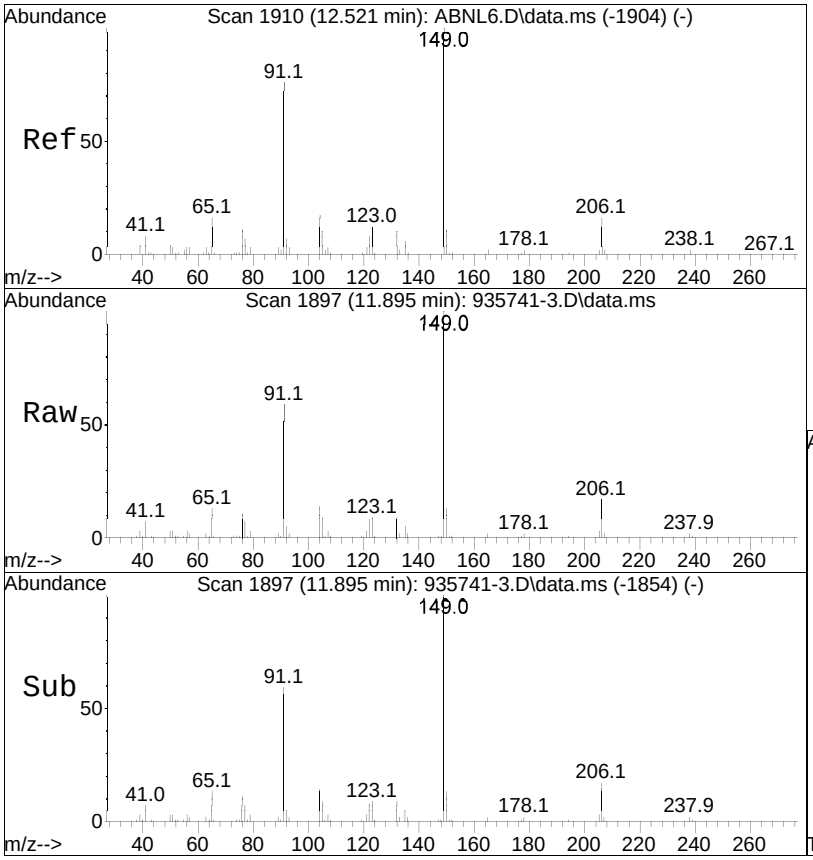


#91
Di-n-butylphthalate
Concen: 1.94 ug/ml
RT: 10.501 min Scan# 1660
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:149 Resp: 141599

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.0	10.6
104	5.2	4.5	6.7

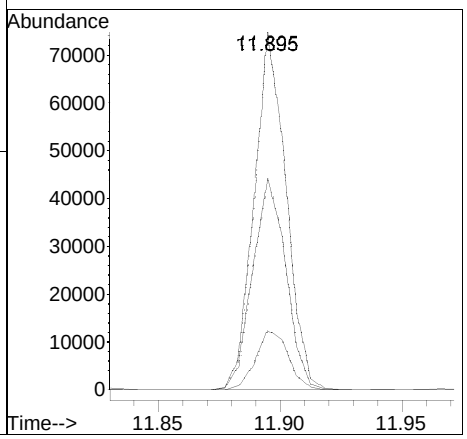


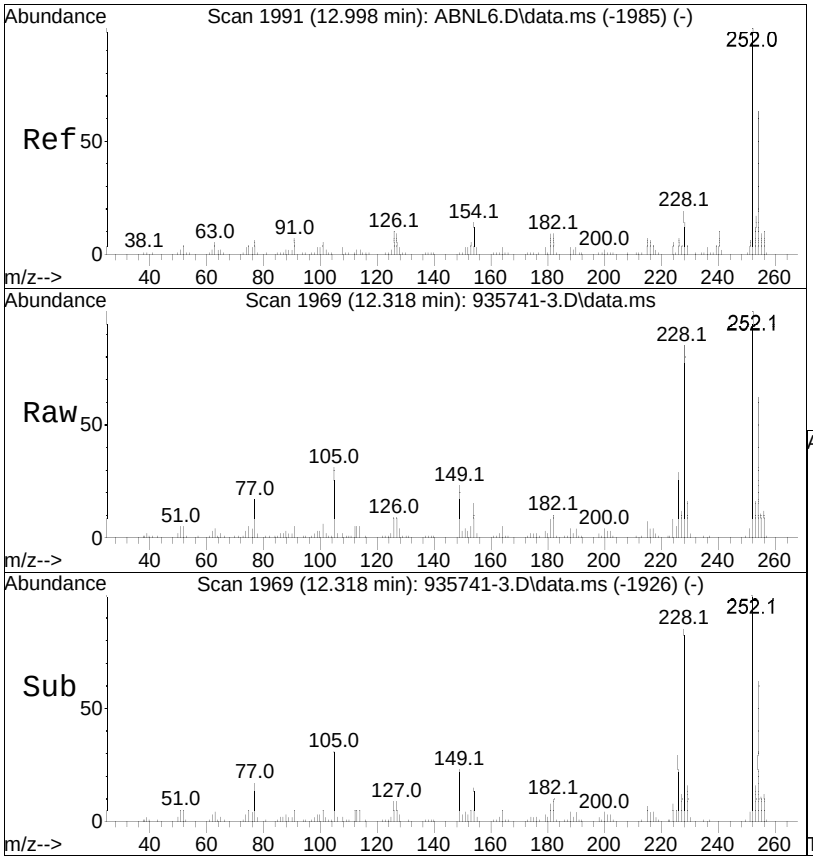


#96
Butyl benzyl phthalate
Concen: 2.16 ug/ml
RT: 11.895 min Scan# 1897
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:149 Resp: 67118

Ion	Ratio	Lower	Upper
149	100		
91	61.8	63.3	94.9#
206	17.0	13.9	20.9

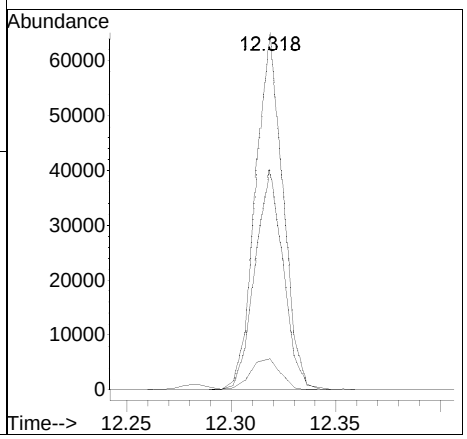


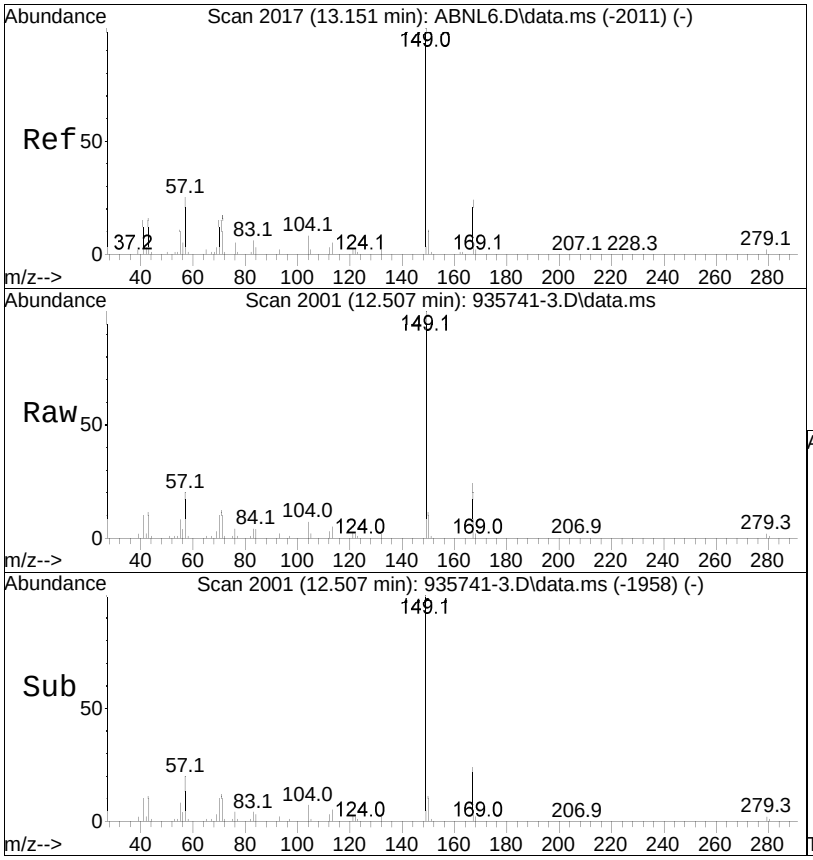


#105
3,3'-Dichlorobenzidine
Concen: 2.11 ug/ml
RT: 12.318 min Scan# 1969
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:252 Resp: 59450

Ion	Ratio	Lower	Upper
252	100		
126	9.8	14.5	21.7#
254	63.7	51.2	76.8

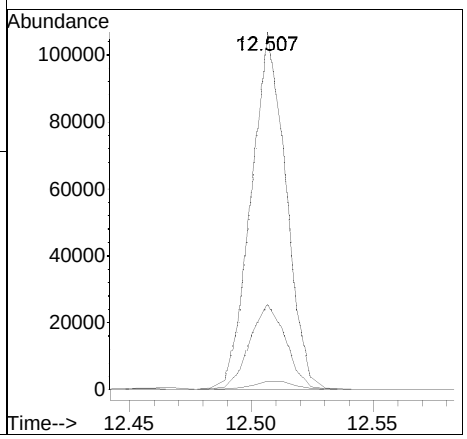


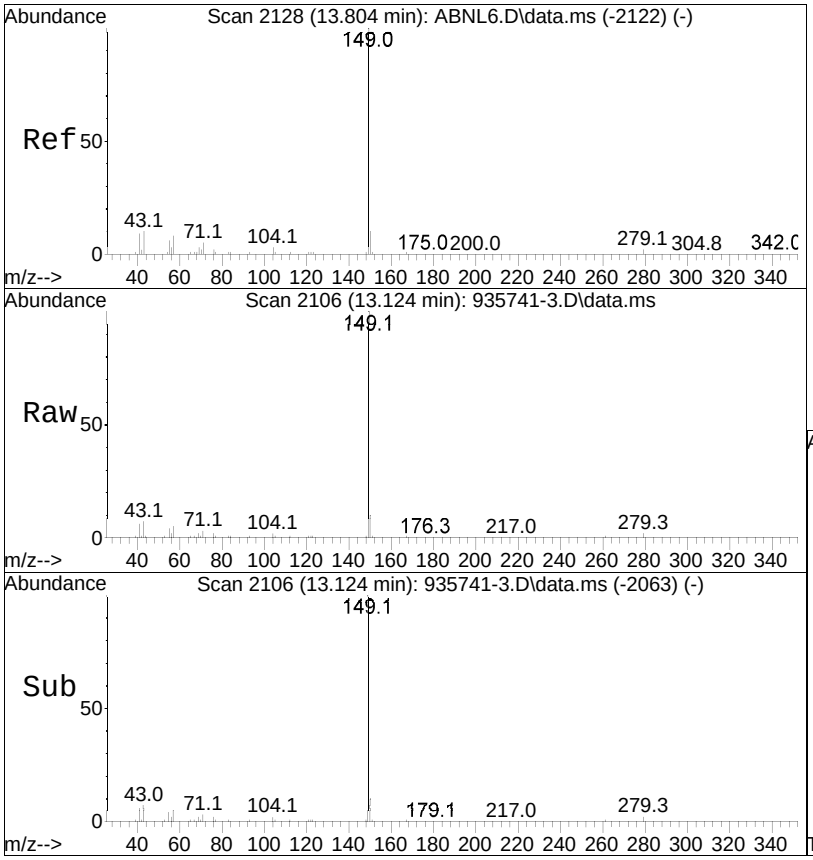


#107
Bis(2-ethylhexyl)phthalate
Concen: 2.16 ug/ml
RT: 12.507 min Scan# 2001
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:149 Resp: 105040

Ion	Ratio	Lower	Upper
149	100		
167	25.0	22.1	33.1
279	2.6	3.0	4.4#

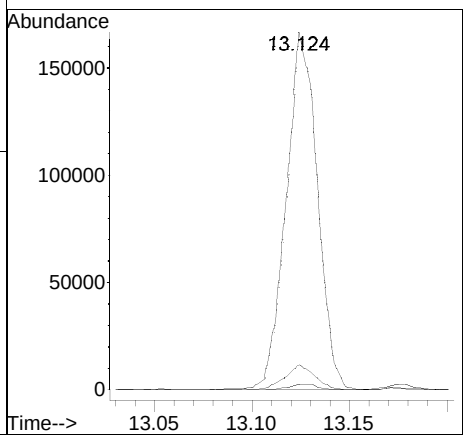




#108
Di-n-octylphthalate
Concen: 2.31 ug/ml
RT: 13.124 min Scan# 2106
Delta R.T. 0.000 min
Lab File: 935741-3.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion:149 Resp: 183653

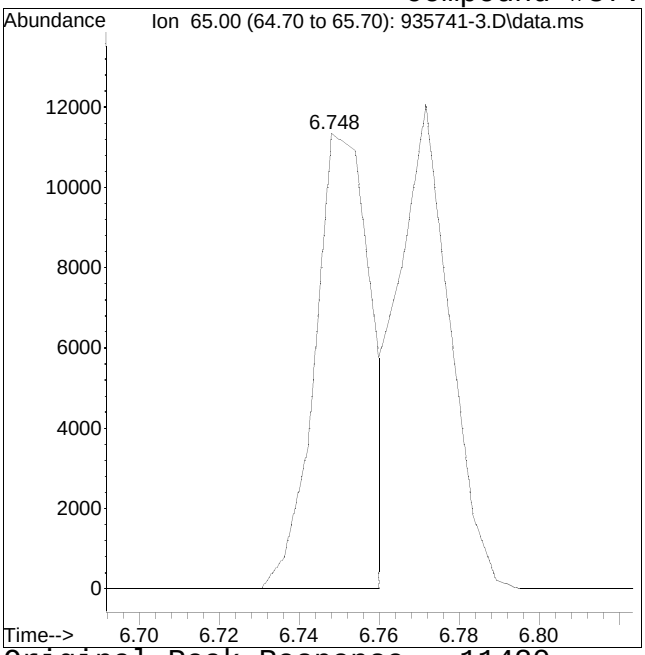
Ion	Ratio	Lower	Upper
149	100		
43	6.4	18.8	28.2#
167	1.5	1.3	1.9

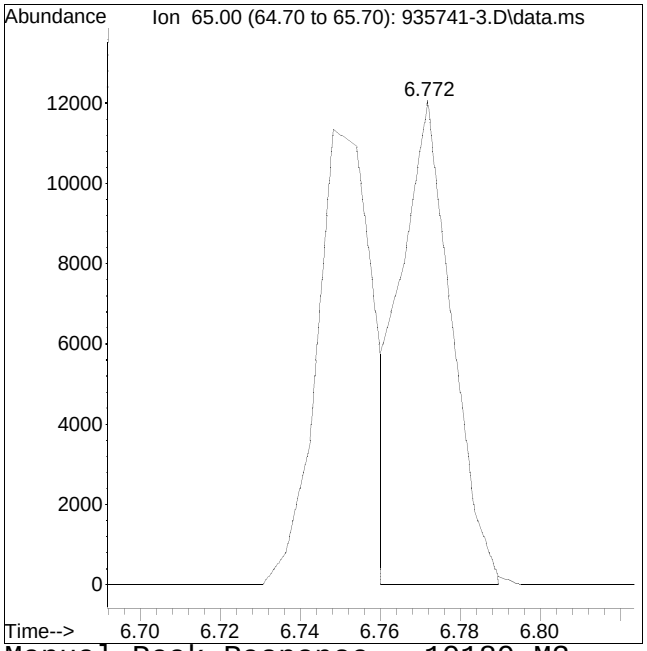


Manual Integration Report

Data Path : I:\8270\SV106\240619aRVT\ QMethod : FS240418SV106.m
Data File : 935741-3.D Operator : SV106:sz
Date Inj'd : 6/19/2024 10:50 am Instrument : SV 106
Sample : WG1935741-3,32,,gmr Quant Date : 6/19/2024 1:46 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 11420 Manual Peak Response = 10180 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-4.D
Acq On : 18 Jun 2024 5:45 pm
Operator : SV106:ek
Sample : WG1934854-4,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 19:04:27 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.895	152	49834	4.000	ug/ml	0.01
Standard Area 1 = 59410			Recovery = 83.88%			
27) IS2_1,4-Dichlorobenzen...	4.895	152	49834	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 72.89%			
34) IS1_Naphthalene-d8	6.636	136	186425	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 87.41%			
54) IS2_Naphthalene-d8	6.636	136	186425	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 75.20%			
62) IS1_Acenaphthene-d10	8.425	164	123060	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 91.97%			
82) IS2_Acenaphthene-d10	8.425	164	123060	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 79.02%			
85) IS3_Acenaphthene-d10	8.425	164	123060	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 108.68%			
87) IS1_Phenanthrene-d10	9.819	188	265871	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 95.39%			
99) IS3_Phenanthrene-d10	9.819	188	265871	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 99.13%			
103) IS1_Chrysene-d12	12.307	240	243089	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 89.00%			
112) IS1_Perylene-d12	13.630	264	271291	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 86.05%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.031	112	4577	0.325	ug/ml	0.05
Spiked Amount 2.000	Range 15 - 110		Recovery = 16.25%			
7) Phenol-d6	4.454	99	7224	0.397	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 19.85%			
19) Nitrobenzene-d5	5.795	82	7857	0.403	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 40.30%			
45) 2-Fluorobiphenyl	7.825	172	20166	0.467	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 46.70%			
78) 2,4,6-Tribromophenol	9.183	330	3731	0.570	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.50%			
95) 4-Terphenyl-d14	11.389	244	31452	0.549	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.90%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-4.D
Acq On : 18 Jun 2024 5:45 pm
Operator : SV106:ek
Sample : WG1934854-4,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 19:04:27 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.478	128	8524	0.556	ug/ml#	85
8) Phenol	4.489	94	7863	0.405	ug/ml#	83
14) Bis(2-chloroisopropyl)...	5.519	45	11969	0.529	ug/ml#	64
15) 2-Methylphenol	5.554	108	11691	0.847	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.701	70	9730	0.755	ug/ml	94
18) 3-Methylphenol/4-Methy...	5.795	108	11594	0.773	ug/ml#	95
20) Nitrobenzene	5.819	77	19133	1.020	ug/ml	91
21) Isophorone	6.166	82	28707	0.863	ug/ml#	95
22) 2-Nitrophenol	6.236	139	4068	0.525	ug/ml#	72
23) 2,4-Dimethylphenol	6.419	107	9215	0.587	ug/ml	96
24) Bis(2-chloroethoxy)met...	6.507	93	17988	0.862	ug/ml#	97
25) 2,4-Dichlorophenol	6.542	162	8090	0.565	ug/ml#	92
28) Benzaldehyde	3.772	105	12257	0.898	ug/ml	91
29) Acetophenone	5.619	105	23016	0.932	ug/ml#	81
37) 4-Chloroaniline	6.795	65	3462M3	0.465	ug/ml	
39) p-Chloro-m-cresol	7.383	107	11124	0.730	ug/ml#	80
42) Hexachlorocyclopentadiene	7.607	237	9051	0.711	ug/ml	97
43) 2,4,6-Trichlorophenol	7.742	196	5080	0.410	ug/ml	95
44) 2,4,5-Trichlorophenol	7.766	196	6854	0.508	ug/ml	98
47) 2-Nitroaniline	8.030	138	11607	1.158	ug/ml#	81
50) Dimethyl phthalate	8.266	163	45860	1.002	ug/ml#	97
52) 2,6-Dinitrotoluene	8.289	165	10179	1.107	ug/ml	90
59) Caprolactam	7.125	55	2632	0.321	ug/ml#	45
60) 1,2,4,5-Tetrachloroben...	7.595	216	18120	0.844	ug/ml#	97
61) Biphenyl	7.907	154	38321	0.912	ug/ml	98
63) 3-Nitroaniline	8.430	138	10130	1.125	ug/ml#	92
65) 2,4-Dinitrophenol	8.536	184	1615	0.602	ug/ml#	86
66) Dibenzofuran	8.624	168	52309	0.980	ug/ml	96
67) 2,4-Dinitrotoluene	8.666	165	12570	1.026	ug/ml#	84
68) 4-Nitrophenol	8.672	65	2846	0.294	ug/ml#	91
71) Diethyl phthalate	8.954	149	46685	1.052	ug/ml	97
73) 4-Chlorophenyl phenyl ...	9.001	204	20599	0.934	ug/ml	89
74) 4-Nitroaniline	9.007	138	10783	1.222	ug/ml#	70
75) 4,6-Dinitro-o-cresol	9.042	198	3375	0.489	ug/ml#	57
76) NDPA/DPA	9.119	169	36024	1.044	ug/ml	96
79) 4-Bromophenyl phenyl e...	9.454	248	13364	1.017	ug/ml	90

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-4.D
Acq On : 18 Jun 2024 5:45 pm
Operator : SV106:ek
Sample : WG1934854-4,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 19:04:27 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Atrazine	9.677	200	14255	1.150	ug/ml	91
90)	Carbazole	10.071	167	65356	1.100	ug/ml	98
91)	Di-n-butylphthalate	10.519	149	81253	1.122	ug/ml	100
96)	Butyl benzyl phthalate	11.913	149	38275	1.243	ug/ml	85
105)	3,3'-Dichlorobenzidine	12.336	252	33536	1.238	ug/ml#	94
107)	Bis(2-ethylhexyl)phtha...	12.524	149	58801	1.261	ug/ml#	93
108)	Di-n-octylphthalate	13.142	149	100056	1.310	ug/ml#	71

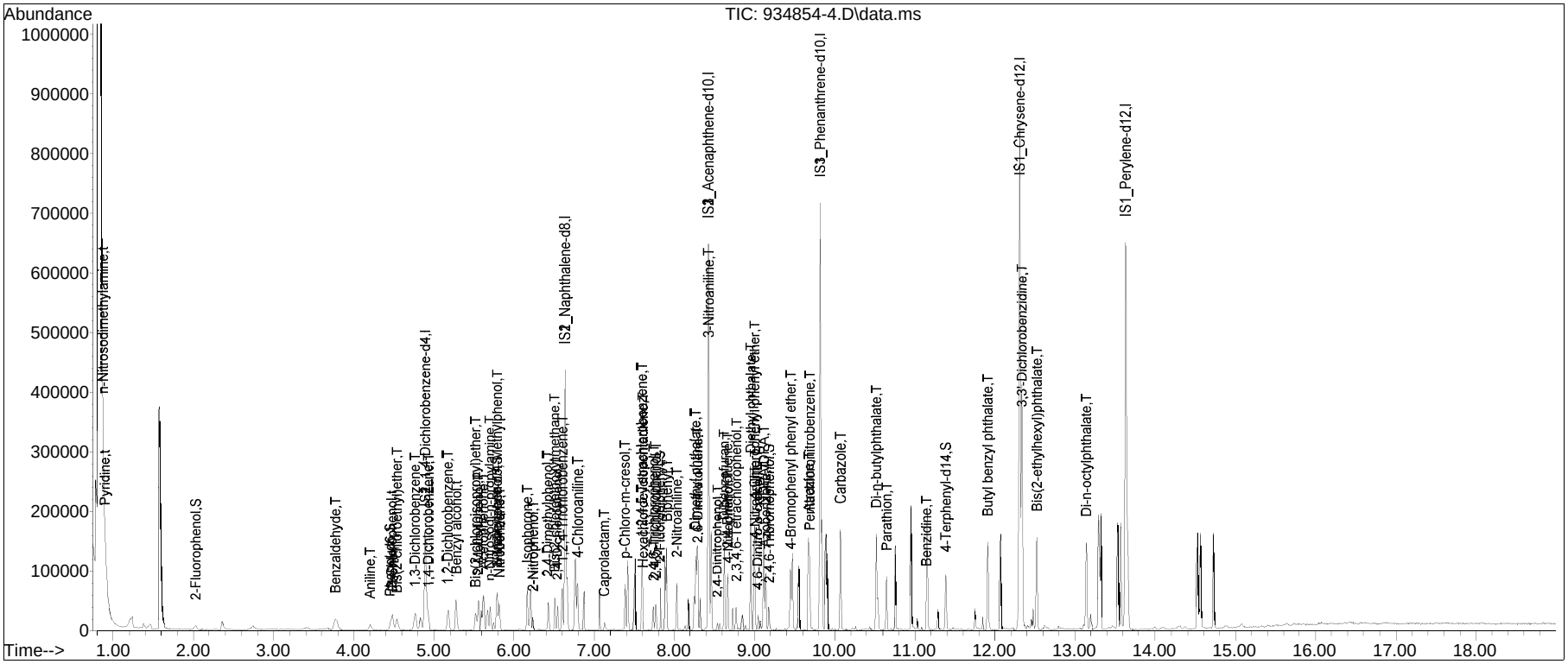
(#) = qualifier out of range (m) = manual integration (+) = signals summed

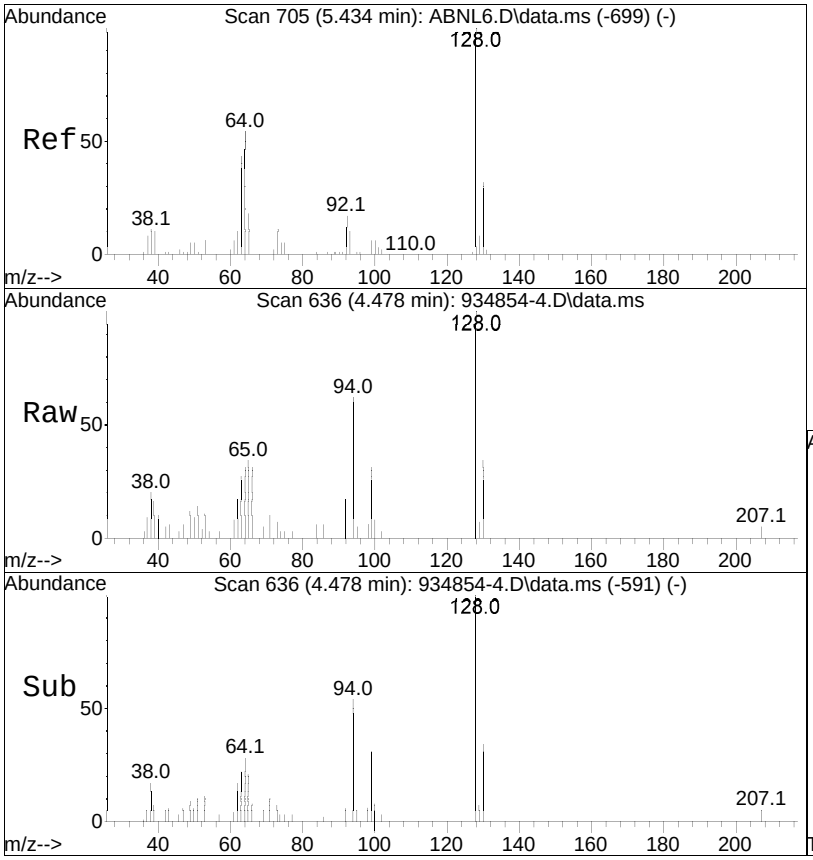
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-4.D
Acq On : 18 Jun 2024 5:45 pm
Operator : SV106:ek
Sample : WG1934854-4,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 18 19:04:27 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

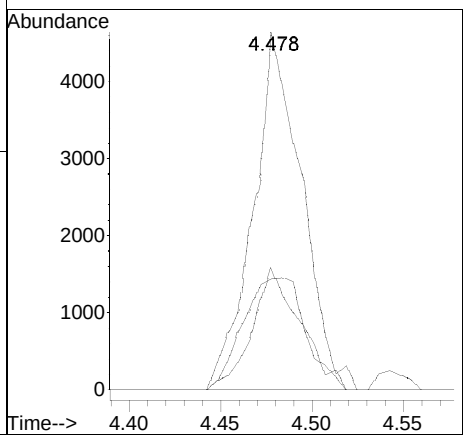


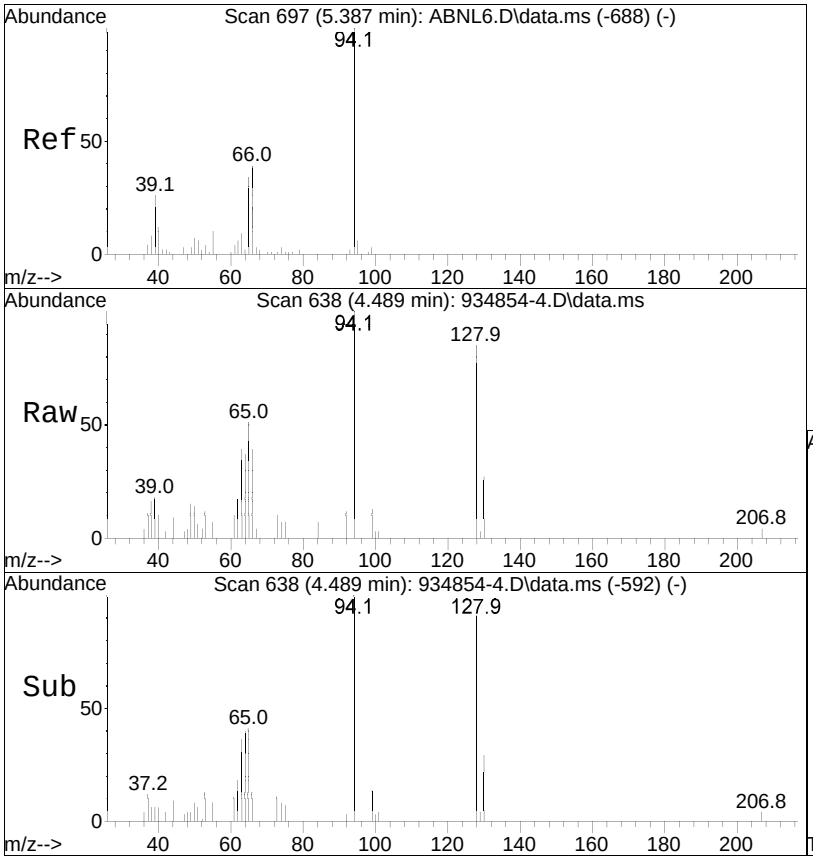


#6
2-Chlorophenol
Concen: 0.56 ug/ml
RT: 4.478 min Scan# 636
Delta R.T. 0.018 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:128 Resp: 8524

Ion	Ratio	Lower	Upper
128	100		
64	40.1	45.1	67.7#
130	33.9	26.2	39.4

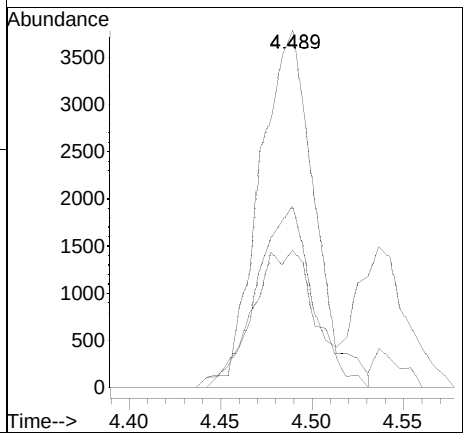


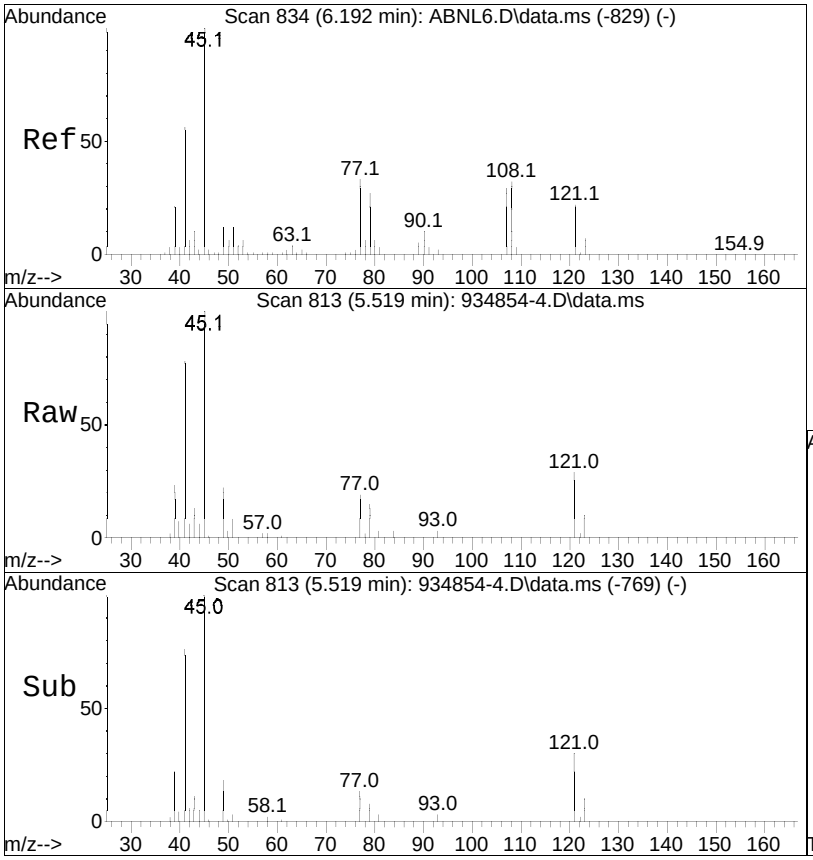


#8
Phenol
Concen: 0.41 ug/ml
RT: 4.489 min Scan# 638
Delta R.T. 0.023 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 94 Resp: 7863

Ion	Ratio	Lower	Upper
94	100		
65	50.9	26.0	39.0#
66	45.2	33.8	50.8

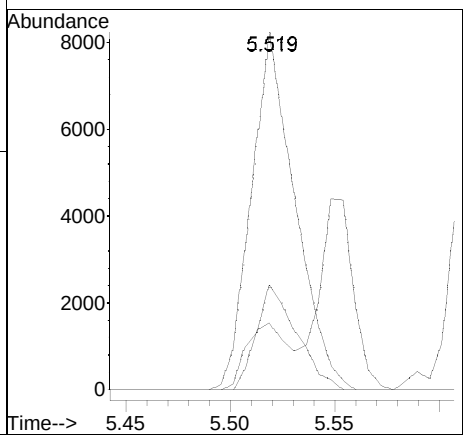


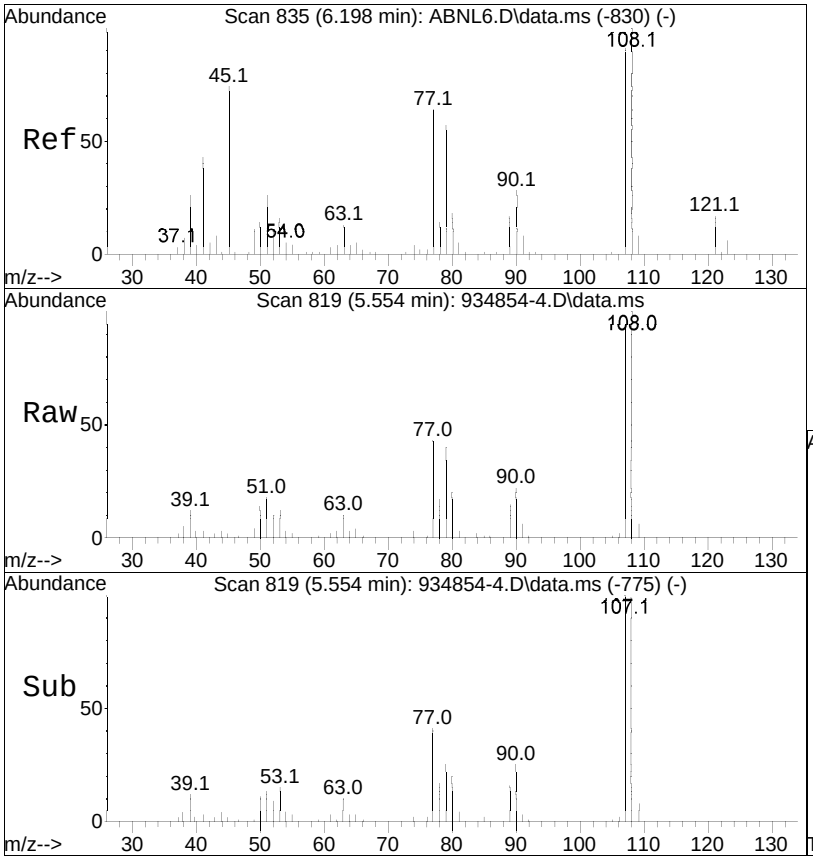


#14
Bis(2-chloroisopropyl)ether
Concen: 0.53 ug/ml
RT: 5.519 min Scan# 813
Delta R.T. 0.012 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 45 Resp: 11969

Ion	Ratio	Lower	Upper
45	100		
121	28.9	9.8	14.6#
77	16.1	6.1	9.1#

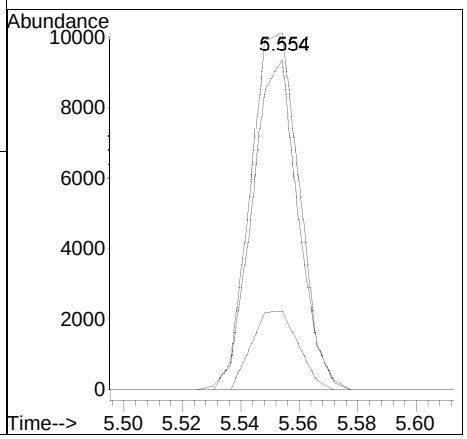


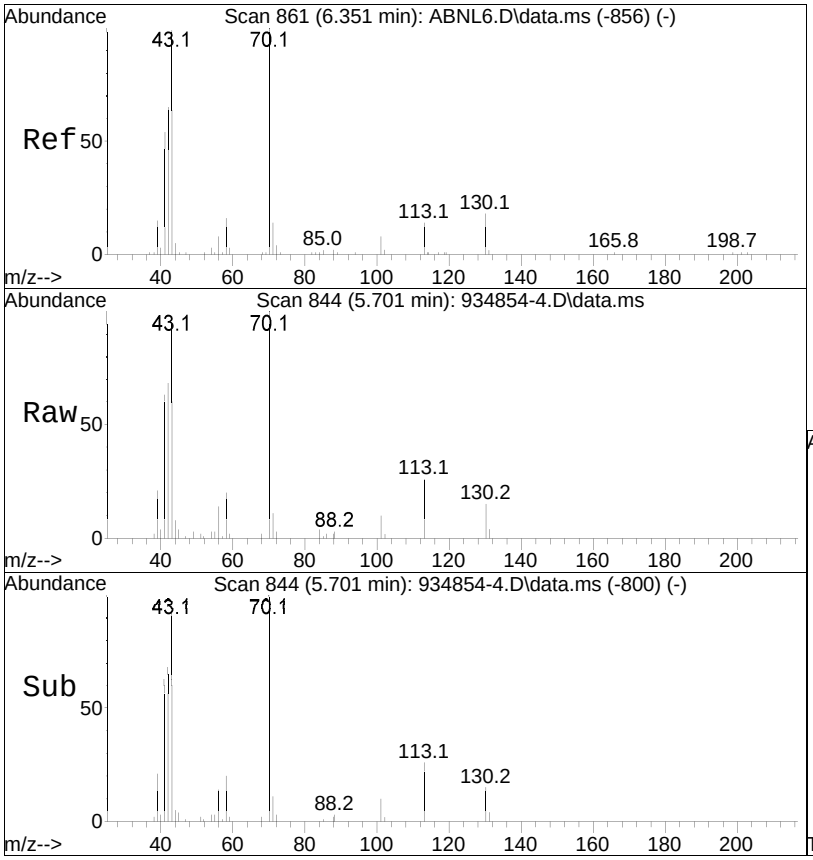


#15
2-Methylphenol
Concen: 0.85 ug/ml
RT: 5.554 min Scan# 819
Delta R.T. 0.012 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:108 Resp: 11691

Ion	Ratio	Lower	Upper
108	100		
107	87.3	70.7	106.1
90	21.0	18.7	28.1

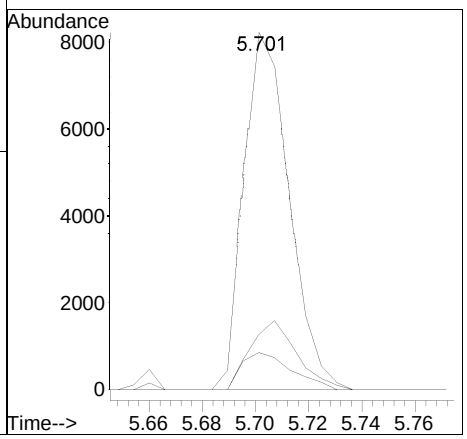


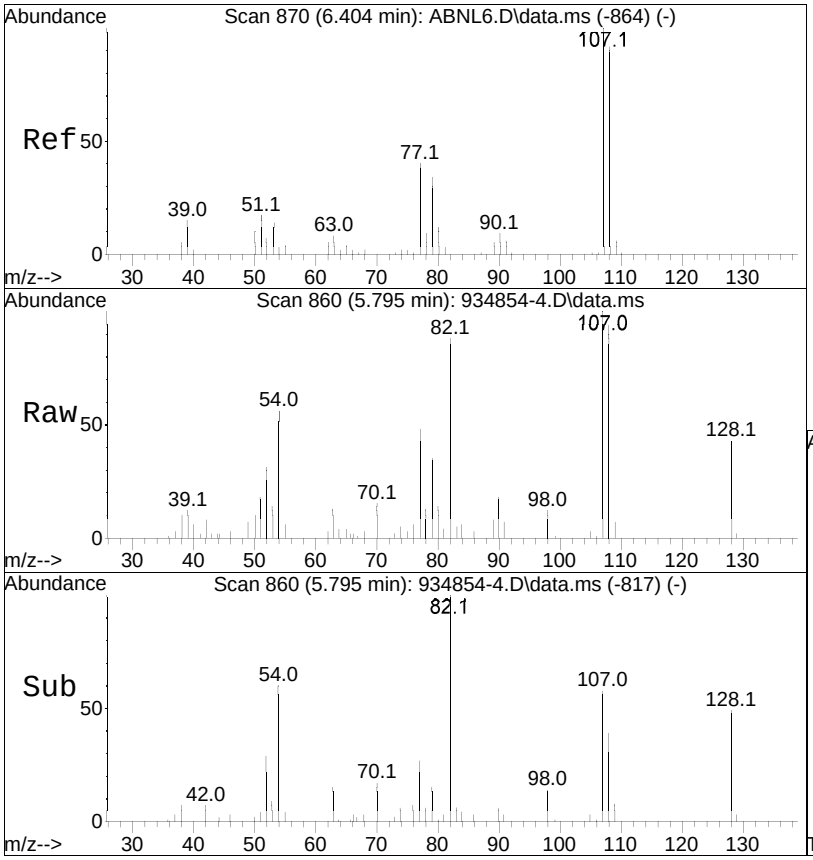


#17
n-Nitrosodi-n-propylamine
Concen: 0.76 ug/ml
RT: 5.701 min Scan# 844
Delta R.T. 0.012 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 70 Resp: 9730

Ion	Ratio	Lower	Upper
70	100		
130	19.9	18.2	27.4
101	11.4	7.8	11.8

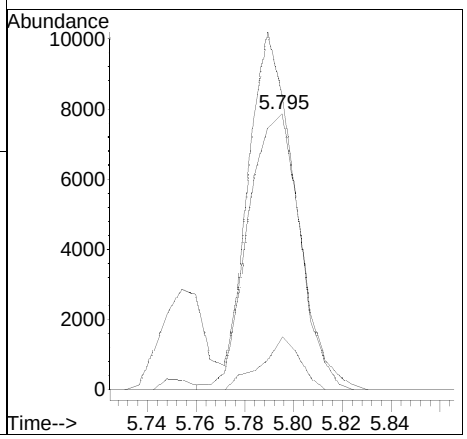


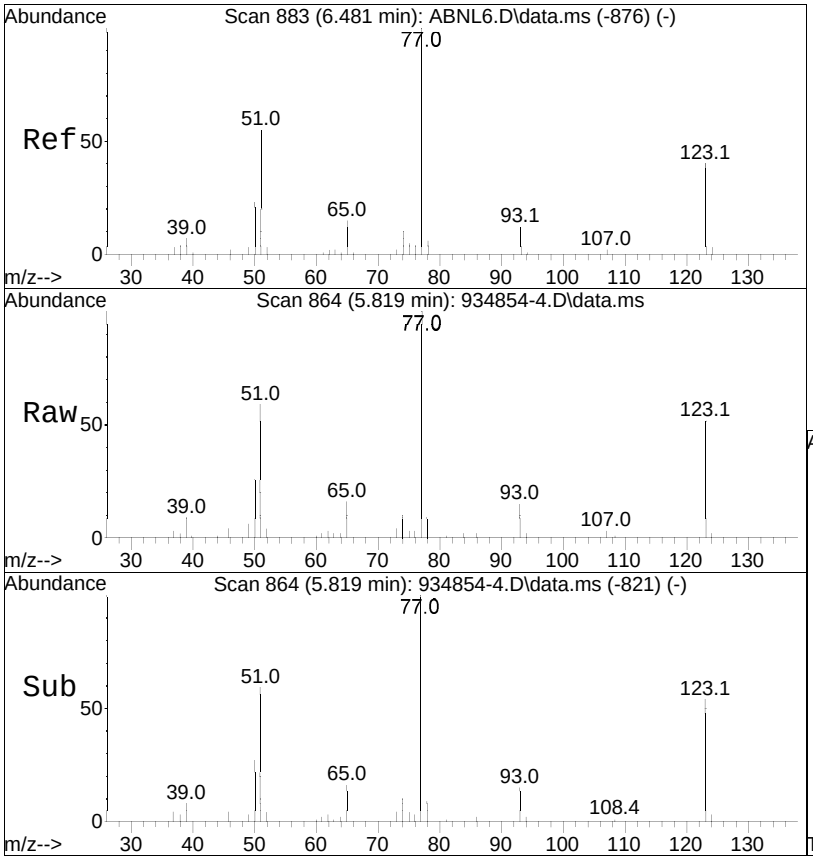


#18
3-Methylphenol/4-Methylphenol
Concen: 0.77 ug/ml
RT: 5.795 min Scan# 860
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:108 Resp: 11594

Ion	Ratio	Lower	Upper
108	100		
107	116.0	88.6	132.8
90	14.3	8.8	13.2#

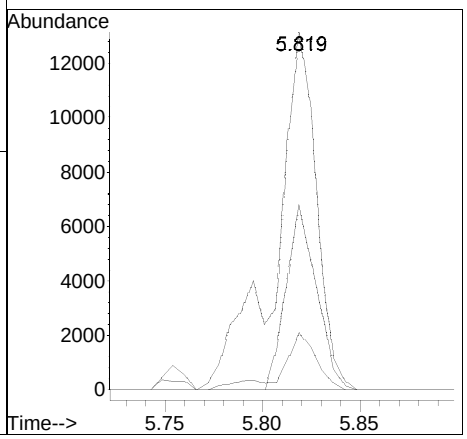


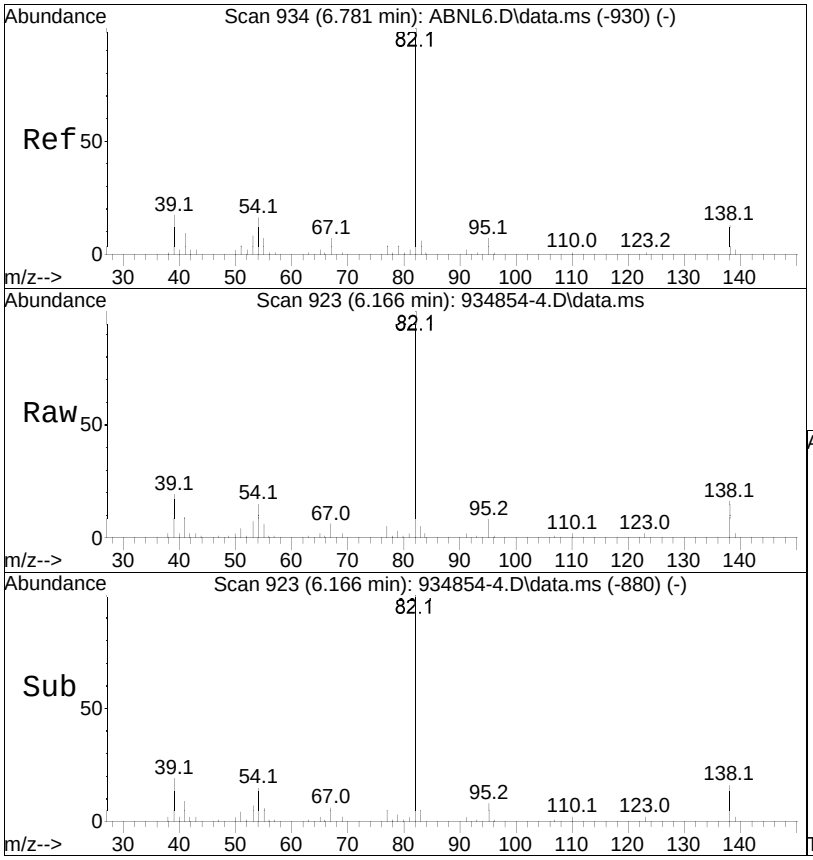


#20
Nitrobenzene
Concen: 1.02 ug/ml
RT: 5.819 min Scan# 864
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 77 Resp: 19133

Ion	Ratio	Lower	Upper
77	100		
123	38.5	36.3	54.5
65	13.4	11.6	17.4

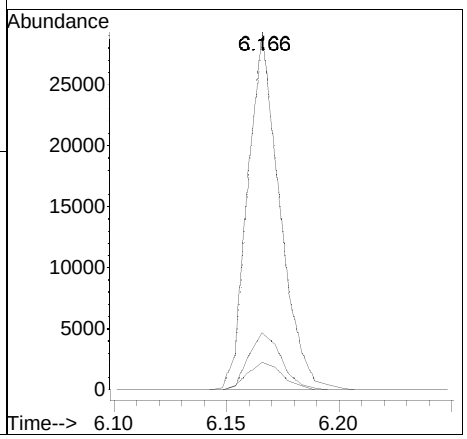


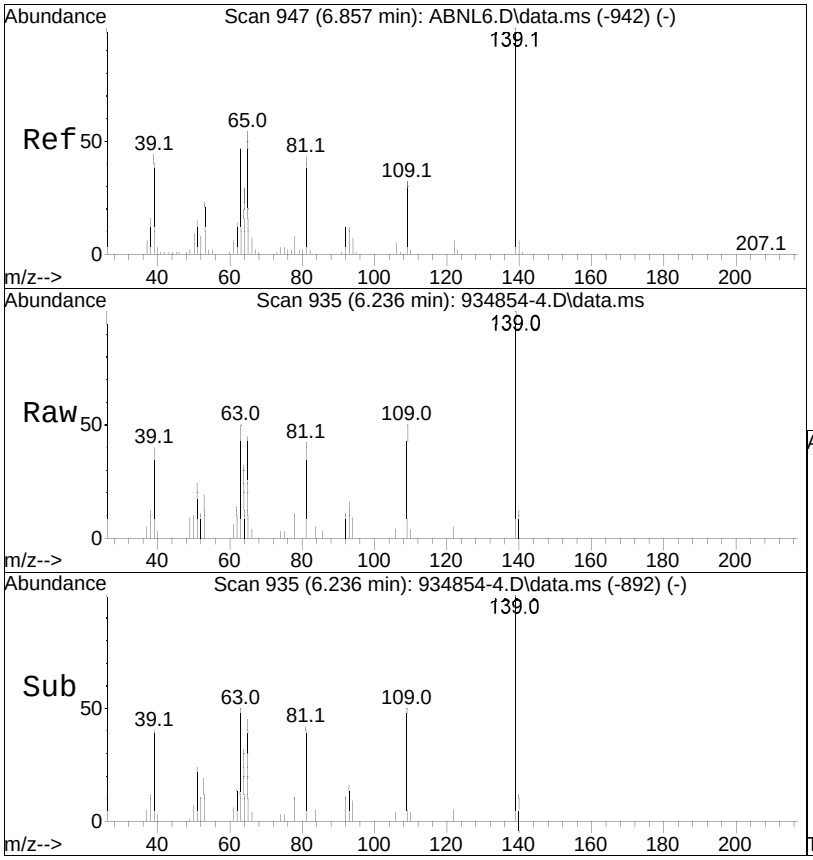


#21
Isophorone
Concen: 0.86 ug/ml
RT: 6.166 min Scan# 923
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 82 Resp: 28707

Ion	Ratio	Lower	Upper
82	100		
138	16.4	14.7	22.1
95	8.6	5.2	7.8#

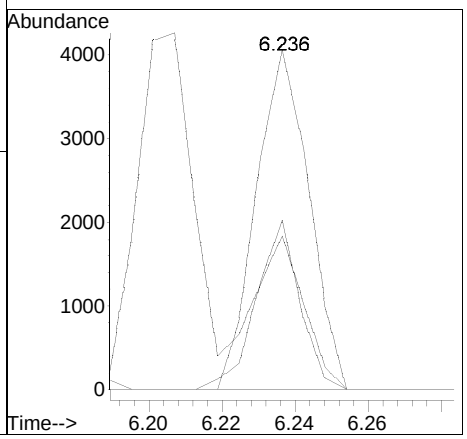


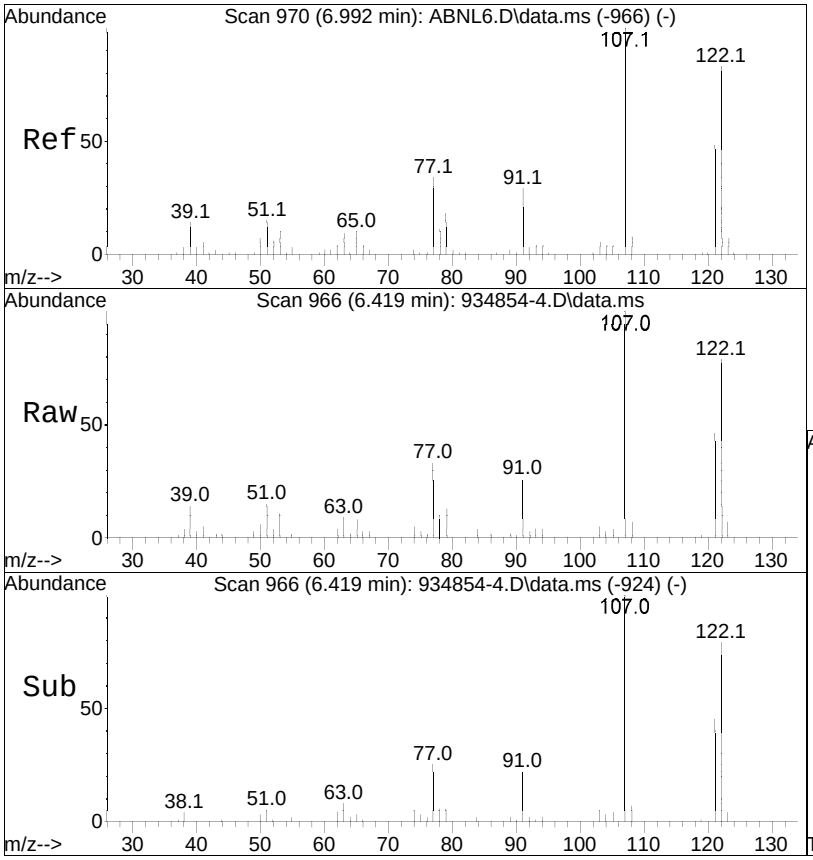


#22
2-Nitrophenol
Concen: 0.52 ug/ml
RT: 6.236 min Scan# 935
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:139 Resp: 4068

Ion	Ratio	Lower	Upper
139	100		
109	41.1	19.4	29.0#
65	38.3	46.1	69.1#

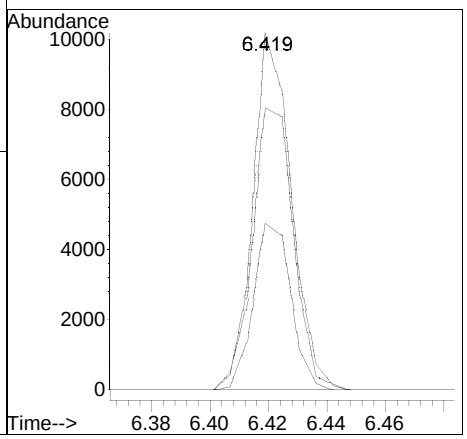


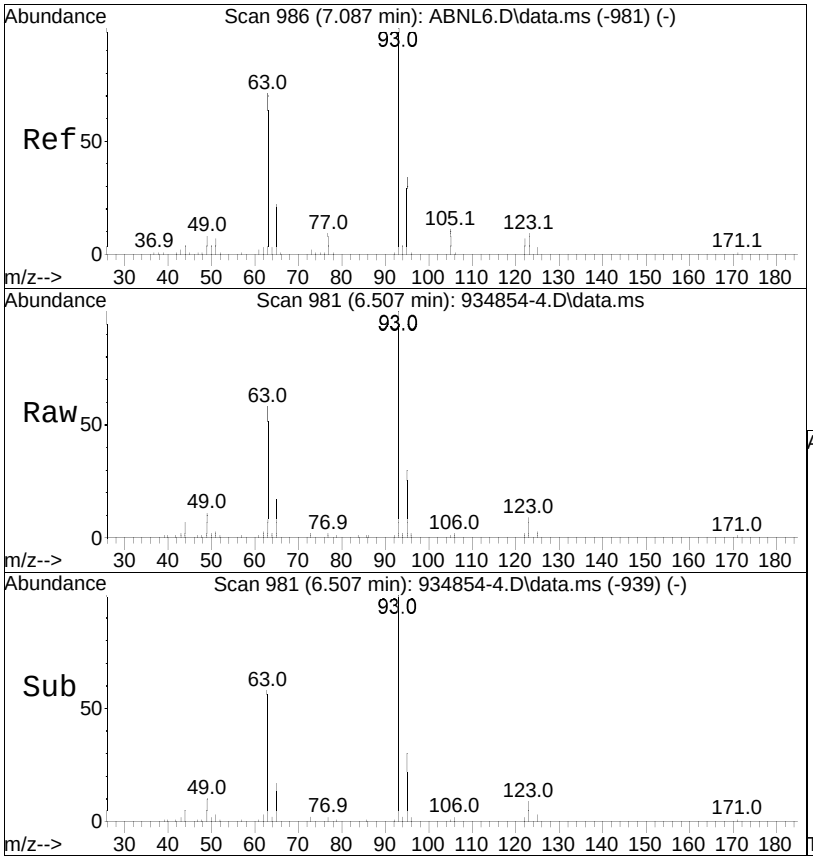


#23
2,4-Dimethylphenol
Concen: 0.59 ug/ml
RT: 6.419 min Scan# 966
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:107 Resp: 9215

Ion	Ratio	Lower	Upper
107	100		
121	46.0	40.0	60.0
122	84.9	70.2	105.4

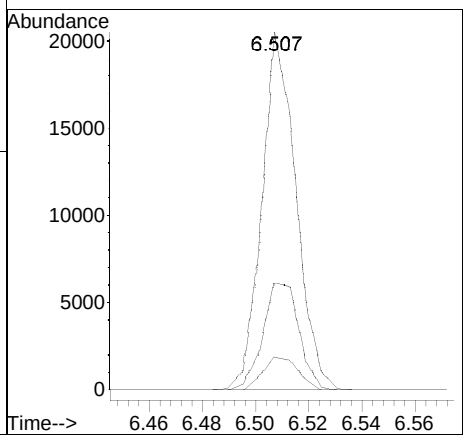


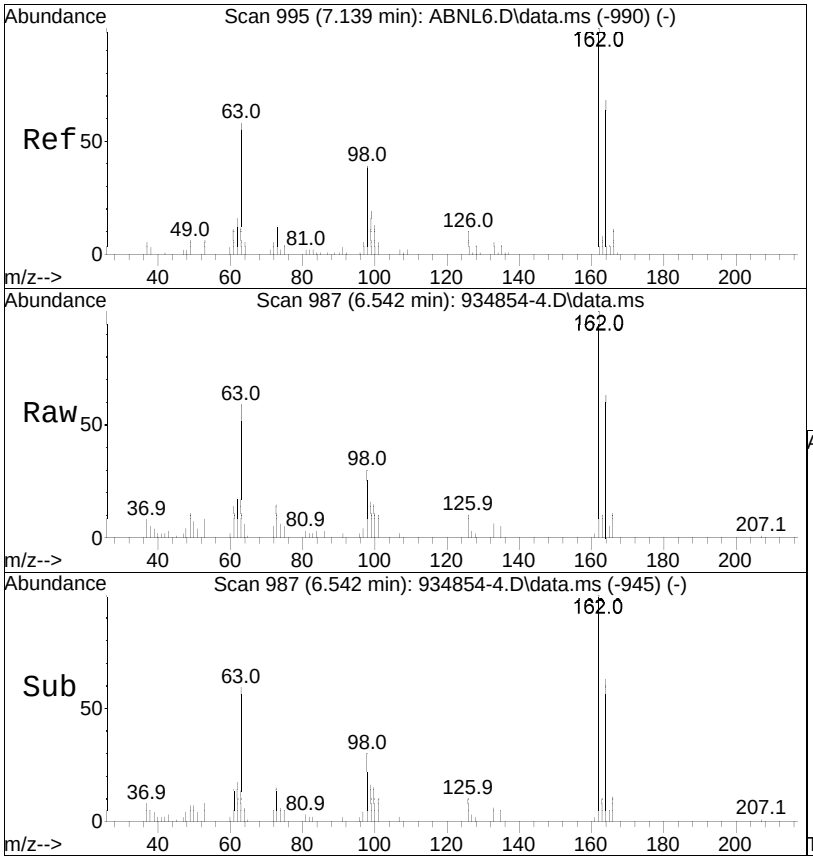


#24
Bis(2-chloroethoxy)methane
Concen: 0.86 ug/ml
RT: 6.507 min Scan# 981
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 93 Resp: 17988

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	9.7	10.1	15.1#

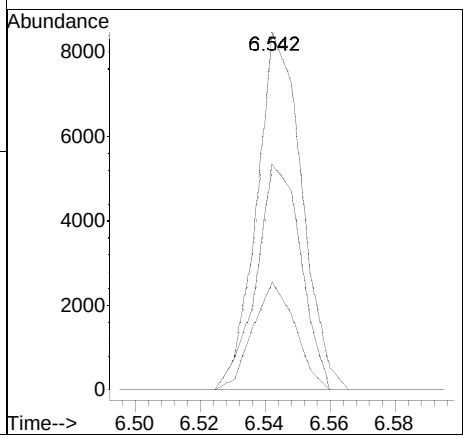


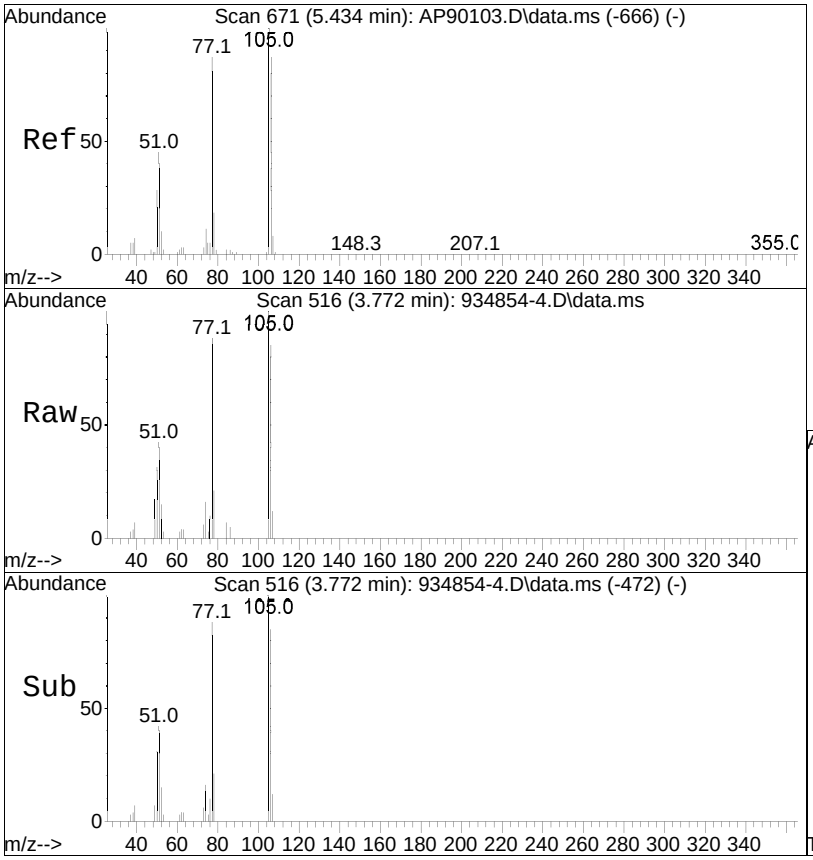


#25
2,4-Dichlorophenol
Concen: 0.57 ug/ml
RT: 6.542 min Scan# 987
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:162 Resp: 8090

Ion	Ratio	Lower	Upper
162	100		
164	62.6	51.0	76.4
98	28.3	32.2	48.2#

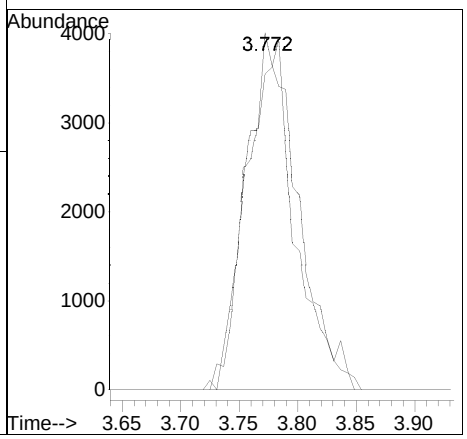


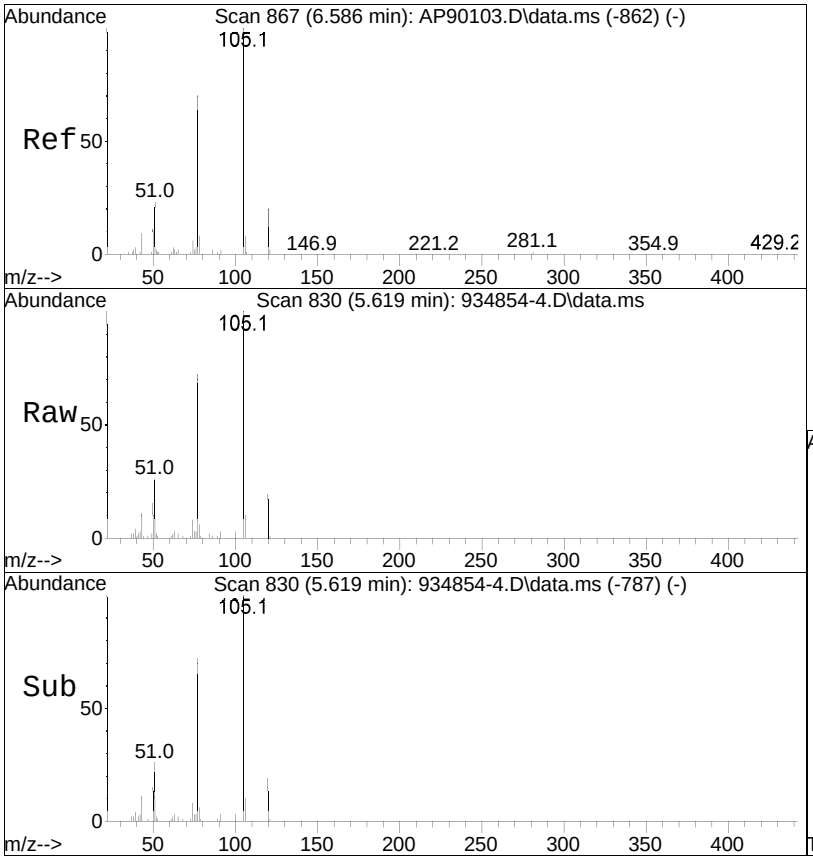


#28
Benzaldehyde
Concen: 0.90 ug/ml
RT: 3.772 min Scan# 516
Delta R.T. 0.012 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:105 Resp: 12257

Ion	Ratio	Lower	Upper
105	100		
77	93.2	82.2	123.4

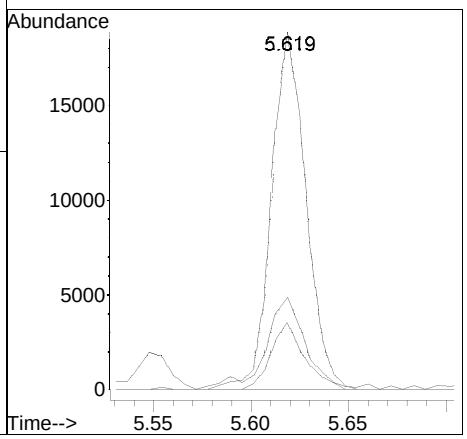


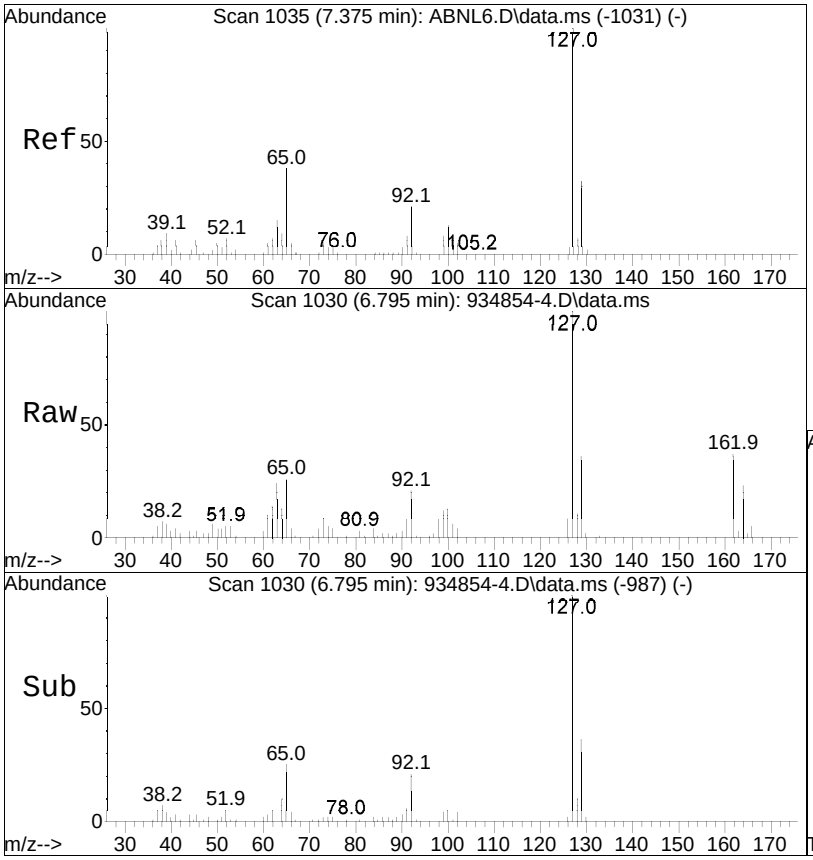


#29
Acetophenone
Concen: 0.93 ug/ml
RT: 5.619 min Scan# 830
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:105 Resp: 23016

Ion	Ratio	Lower	Upper
105	100		
120	18.3	20.5	30.7#
51	29.9	34.9	52.3#

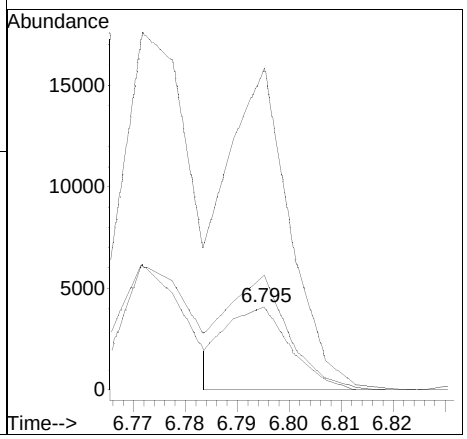


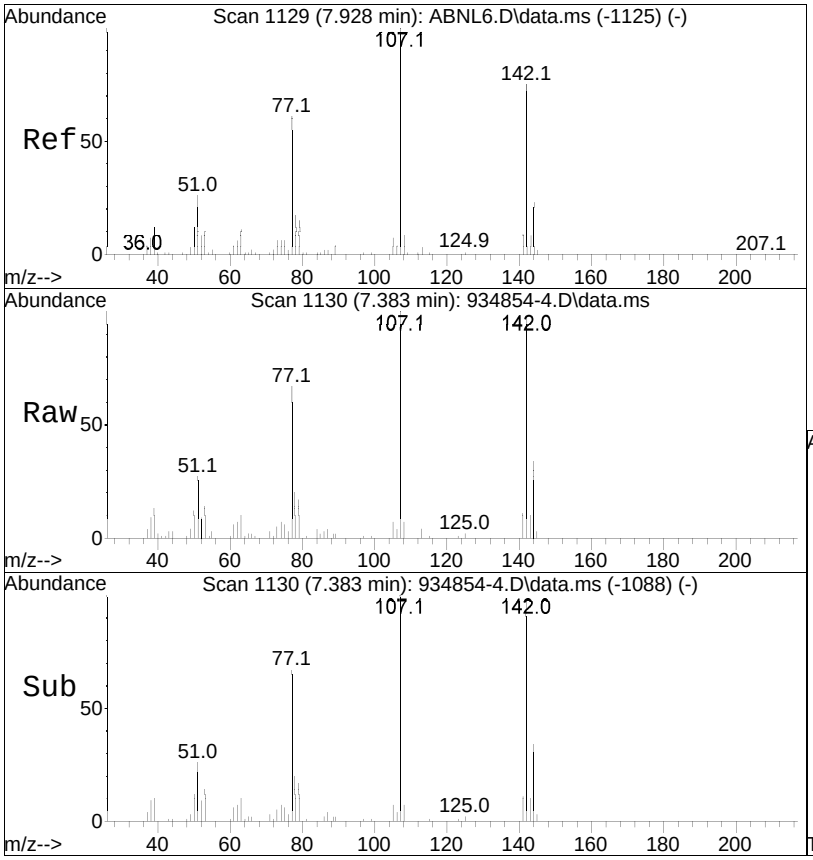


#37
4-Chloroaniline
Concen: 0.46 ug/ml M3
RT: 6.795 min Scan# 1030
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 65 Resp: 3462

Ion	Ratio	Lower	Upper
65	100		
127	488.5	237.6	356.4#
129	167.8	76.3	114.5#

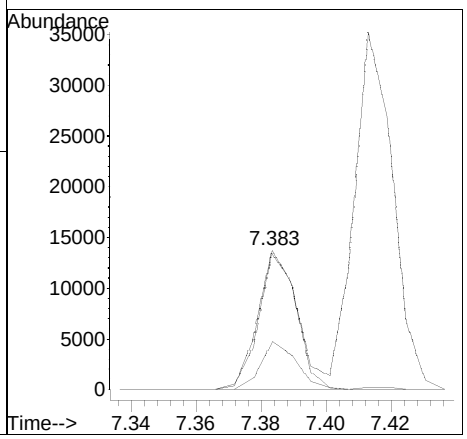


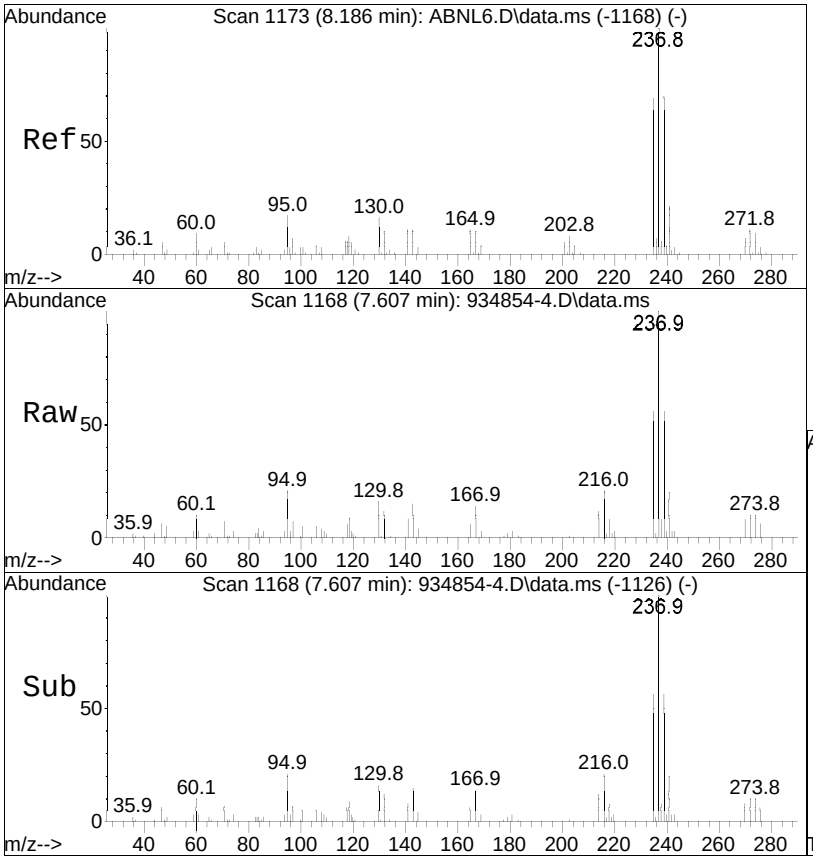


#39
p-Chloro-m-cresol
Concen: 0.73 ug/ml
RT: 7.383 min Scan# 1130
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:107 Resp: 11124

Ion	Ratio	Lower	Upper
107	100		
144	32.3	20.9	31.3#
142	102.9	66.1	99.1#

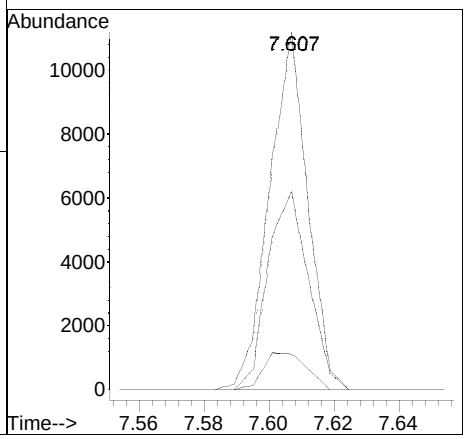


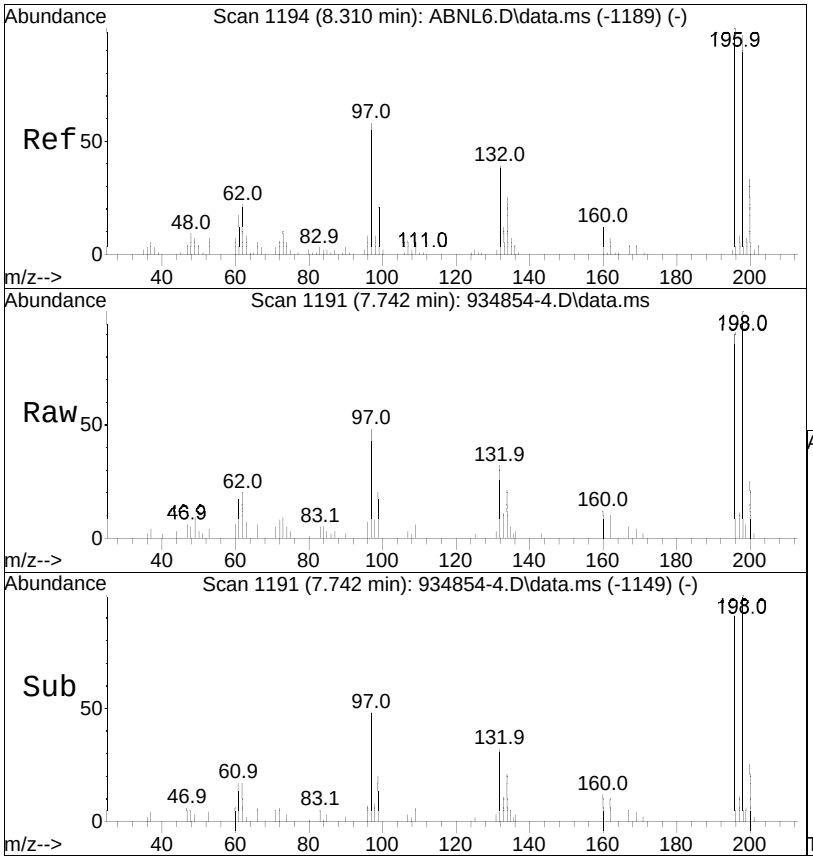


#42
Hexachlorocyclopentadiene
Concen: 0.71 ug/ml
RT: 7.607 min Scan# 1168
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:237 Resp: 9051

Ion	Ratio	Lower	Upper
237	100		
235	59.5	49.7	74.5
272	11.9	9.8	14.6

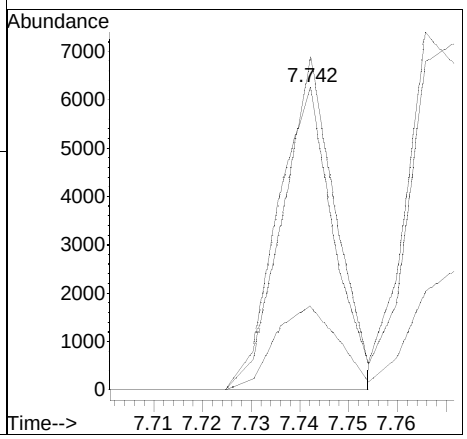


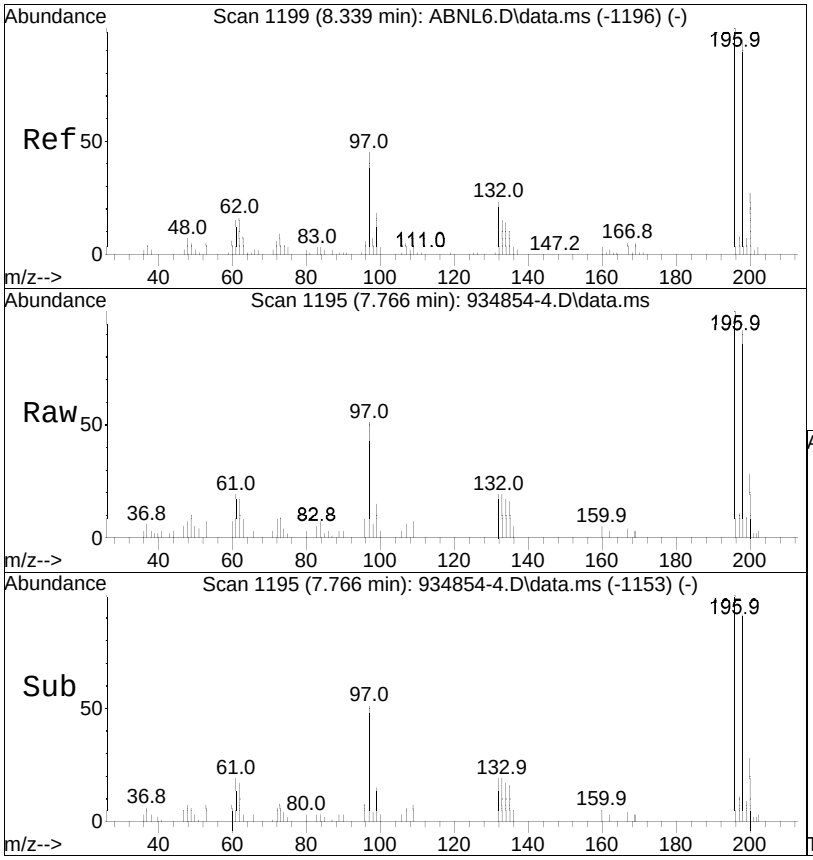


#43
2,4,6-Trichlorophenol
Concen: 0.41 ug/ml
RT: 7.742 min Scan# 1191
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:196 Resp: 5080

Ion	Ratio	Lower	Upper
196	100		
198	102.4	77.5	116.3
200	31.2	23.8	35.6

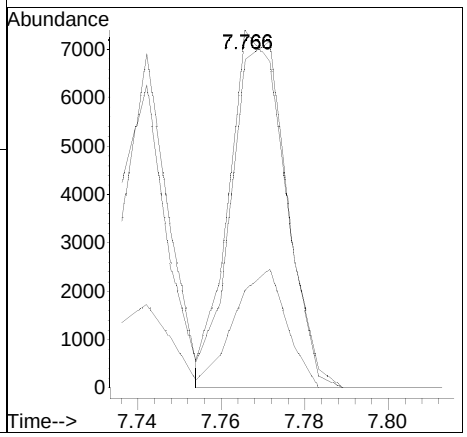


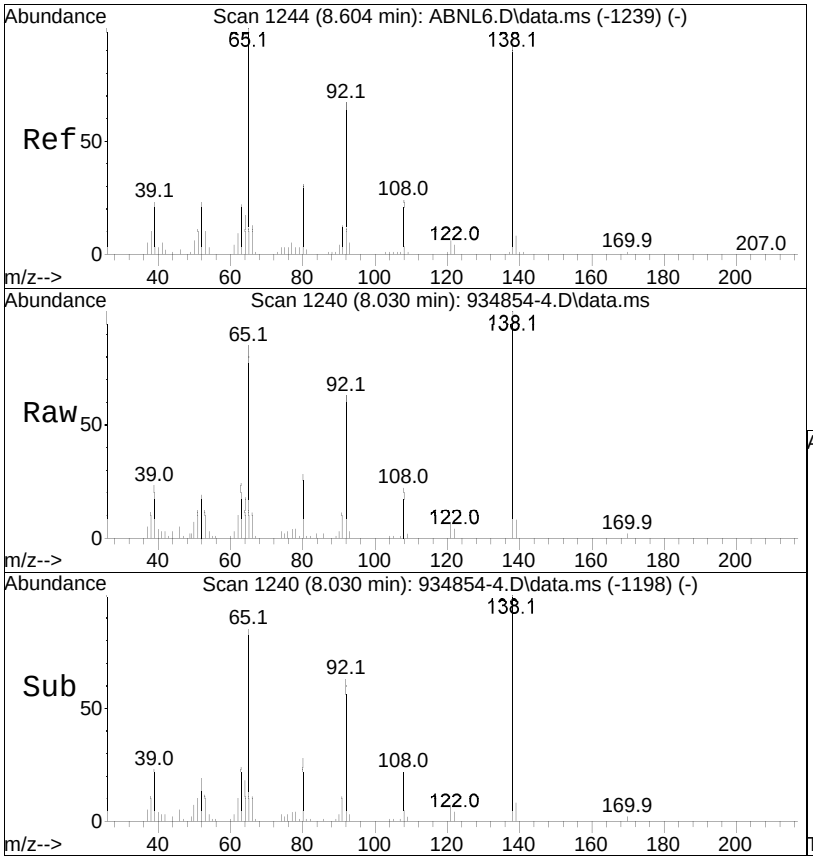


#44
2,4,5-Trichlorophenol
Concen: 0.51 ug/ml
RT: 7.766 min Scan# 1195
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:196 Resp: 6854

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.4	38.0
198	95.7	78.0	117.0

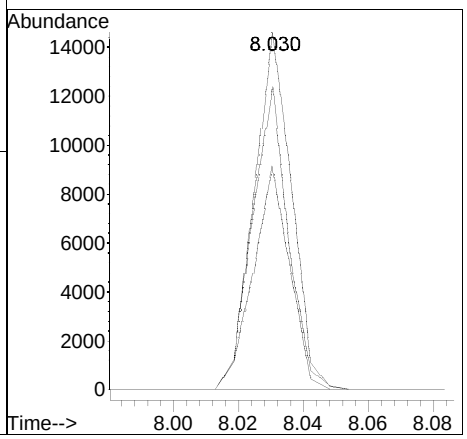


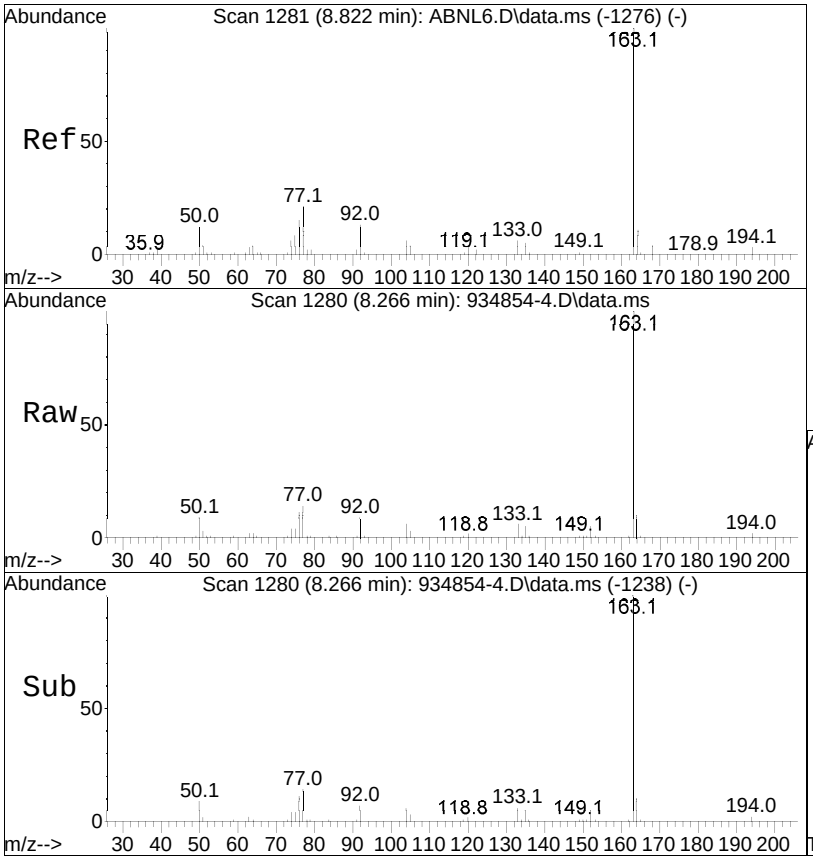


#47
2-Nitroaniline
Concen: 1.16 ug/ml
RT: 8.030 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:138 Resp: 11607

Ion	Ratio	Lower	Upper
138	100		
92	60.9	53.5	80.3
65	81.4	86.3	129.5#

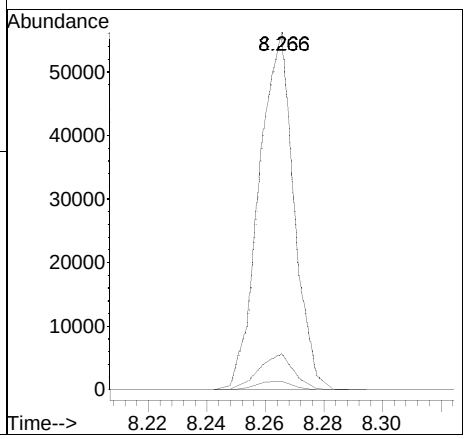


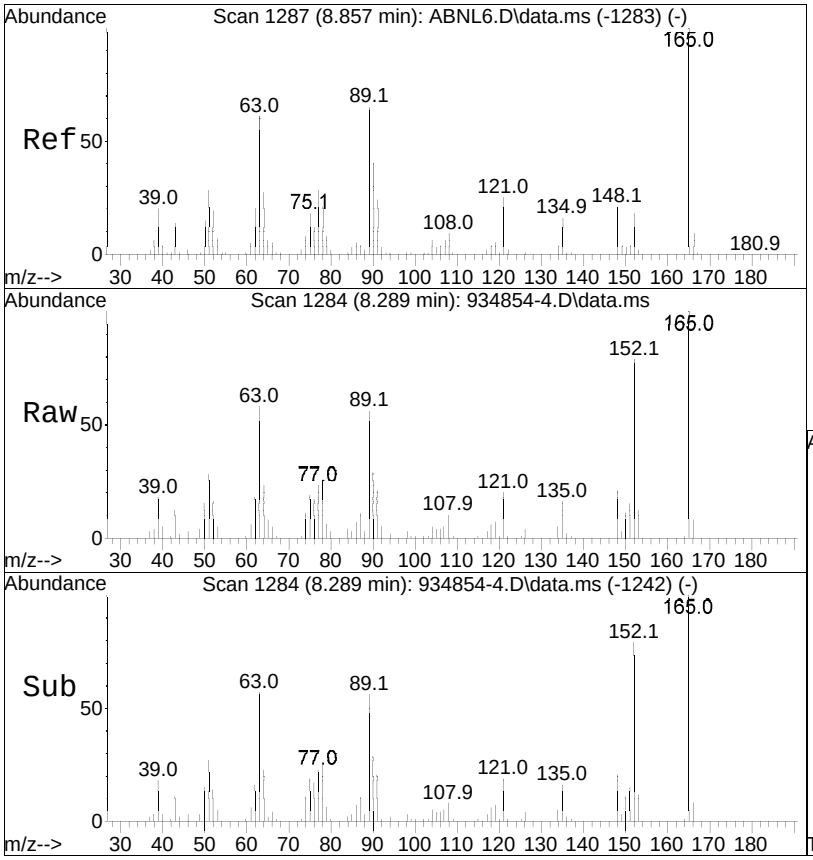


#50
Dimethyl phthalate
Concen: 1.00 ug/ml
RT: 8.266 min Scan# 1280
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:163 Resp: 45860

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	10.4	7.9	11.9

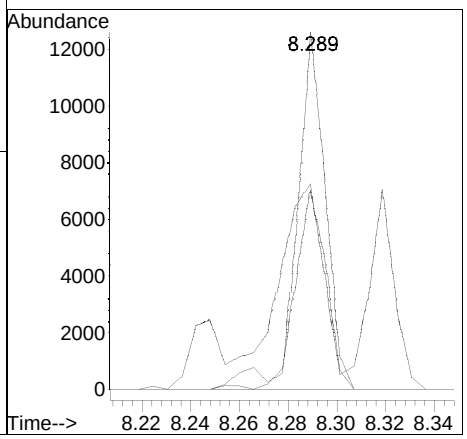


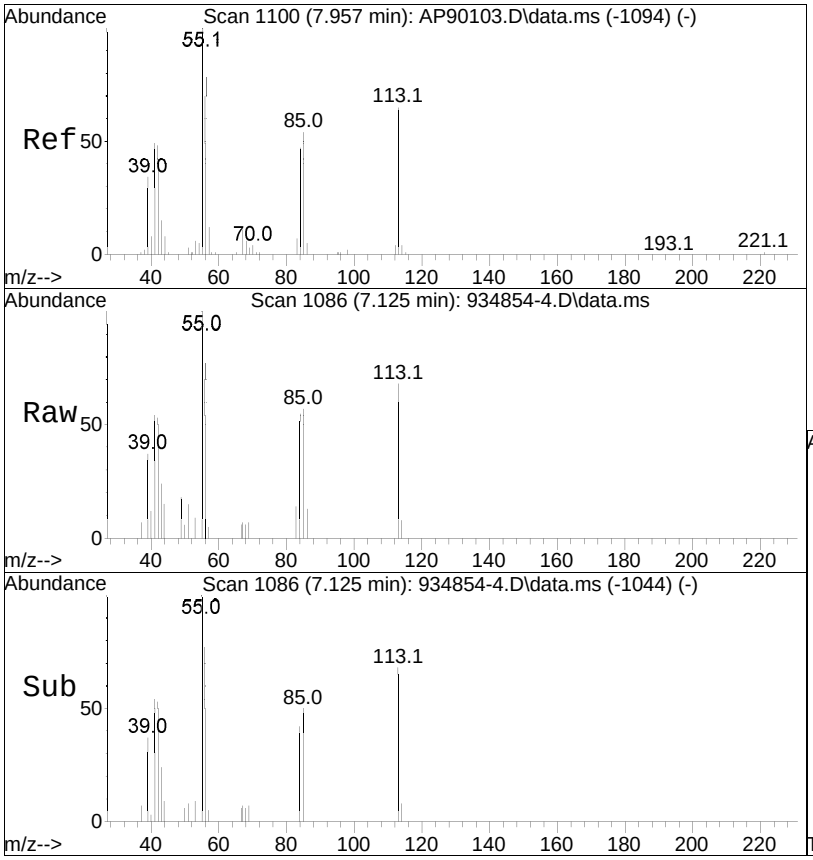


#52
2,6-Dinitrotoluene
Concen: 1.11 ug/ml
RT: 8.289 min Scan# 1284
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:165 Resp: 10179

Ion	Ratio	Lower	Upper
165	100		
89	60.5	54.2	81.2
63	89.9	64.2	96.2

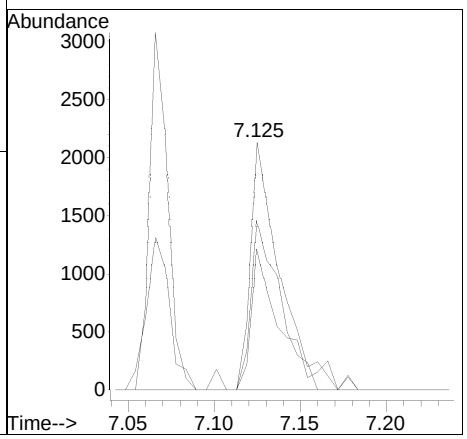


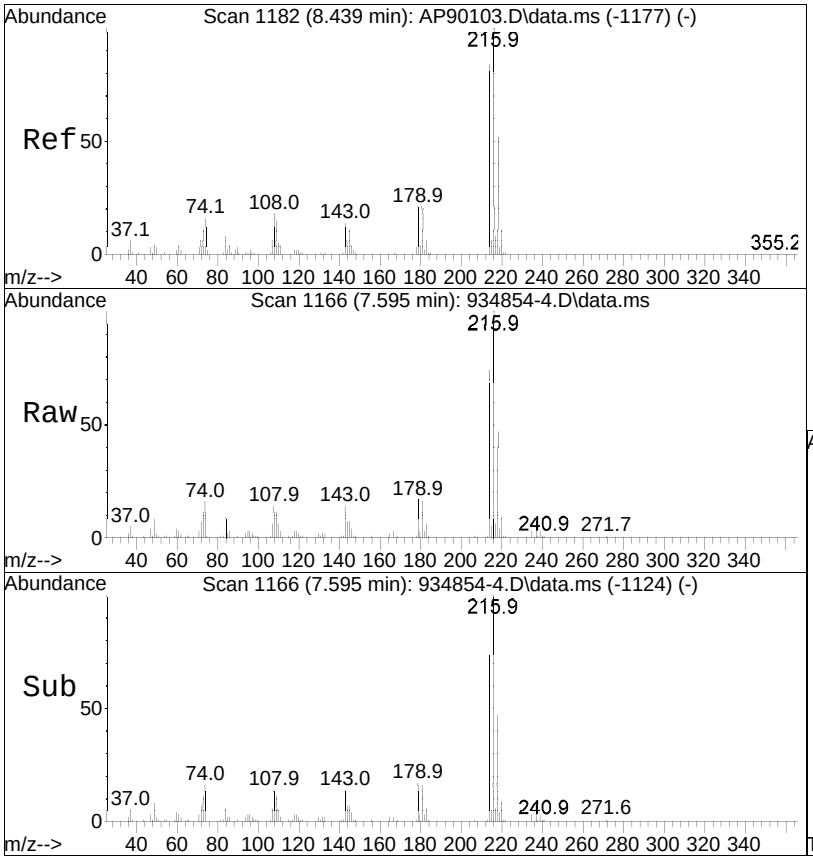


#59
Caprolactam
Concen: 0.32 ug/ml
RT: 7.125 min Scan# 1086
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 55 Resp: 2632

Ion	Ratio	Lower	Upper
55	100		
85	56.3	19.8	29.6#
113	66.0	29.6	44.4#

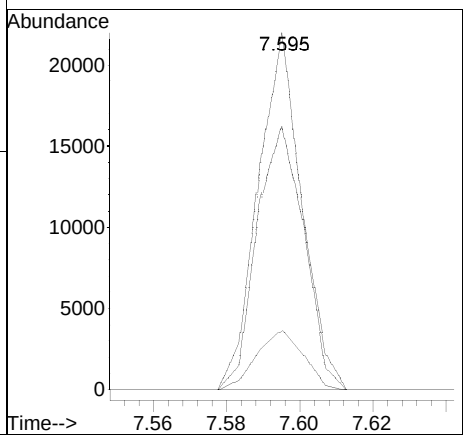


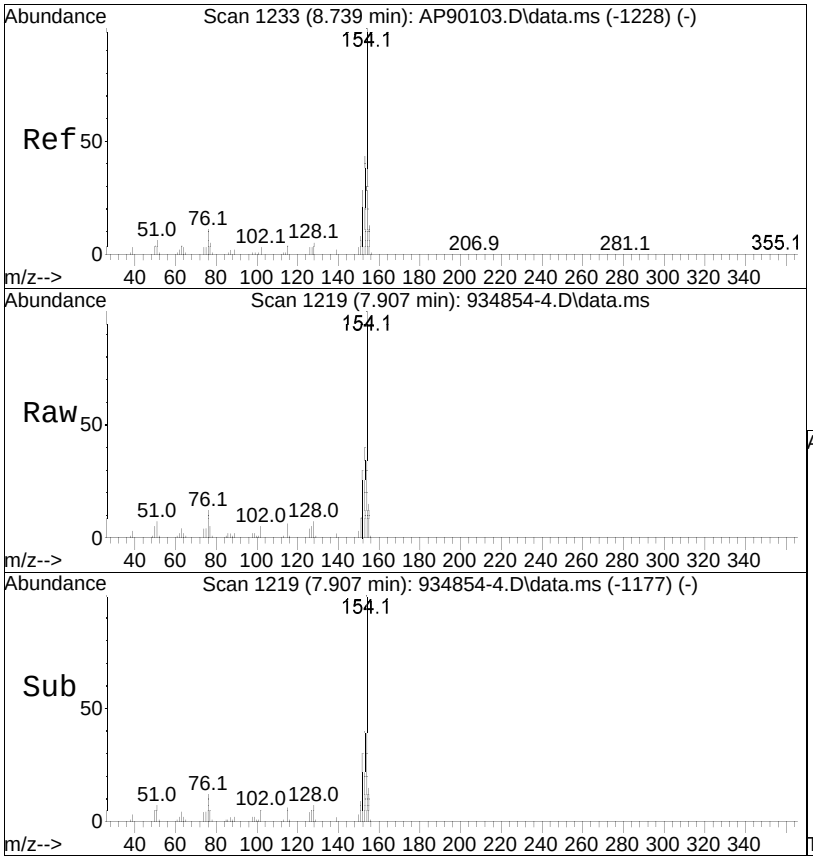


#60
1,2,4,5-Tetrachlorobenzene
Concen: 0.84 ug/ml
RT: 7.595 min Scan# 1166
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:216 Resp: 18120

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.7	95.5
179	18.0	19.0	28.6#

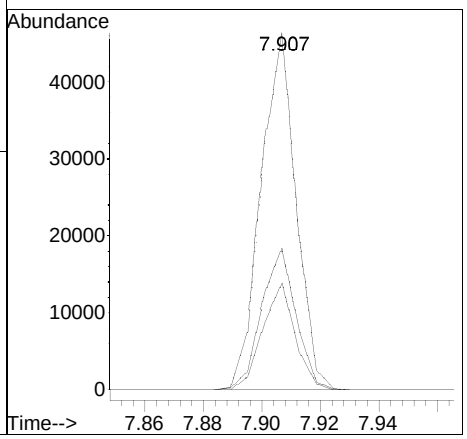


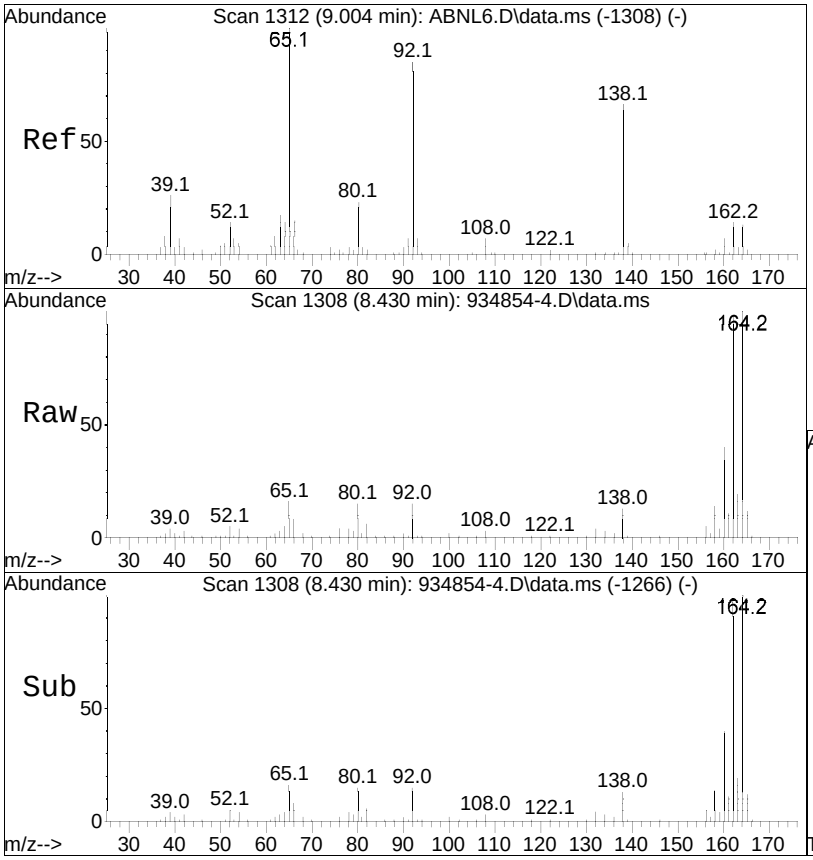


#61
Biphenyl
Concen: 0.91 ug/ml
RT: 7.907 min Scan# 1219
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:154 Resp: 38321

Ion	Ratio	Lower	Upper
154	100		
153	39.1	32.3	48.5
152	27.8	22.5	33.7

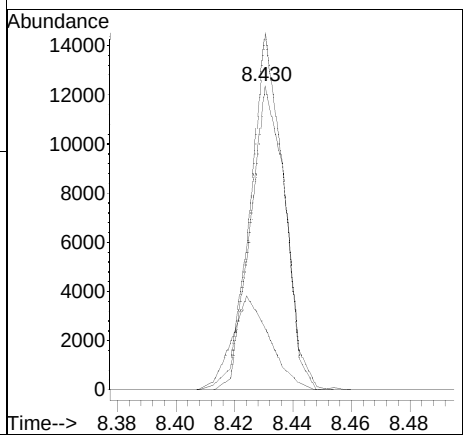


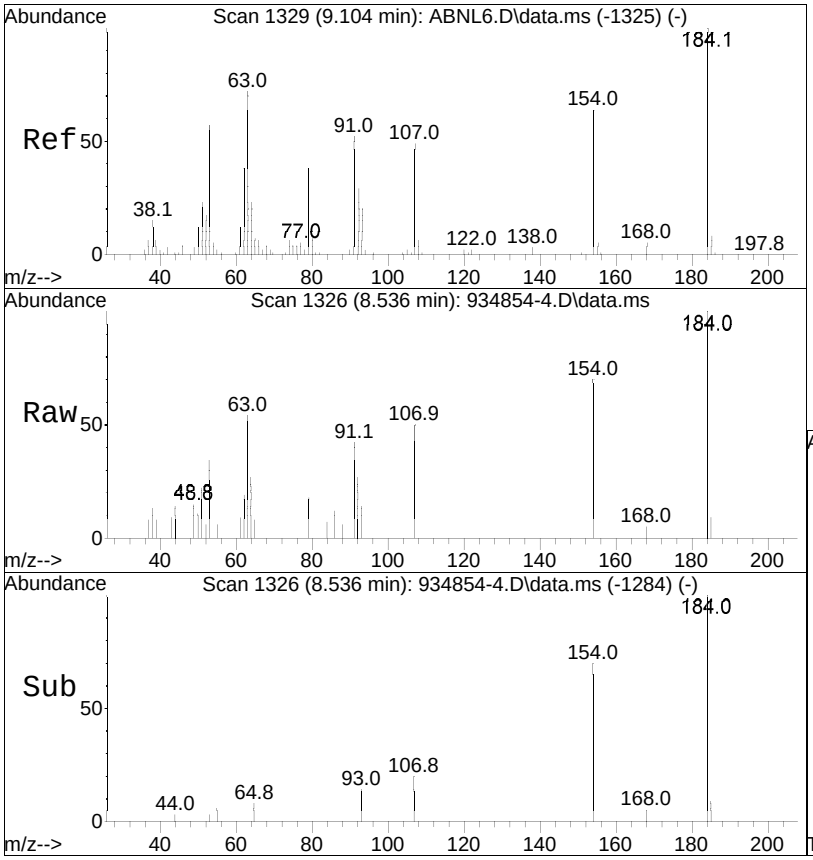


#63
3-Nitroaniline
Concen: 1.12 ug/ml
RT: 8.430 min Scan# 1308
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:138 Resp: 10130

Ion	Ratio	Lower	Upper
138	100		
92	113.0	93.4	140.2
108	34.0	9.5	14.3#

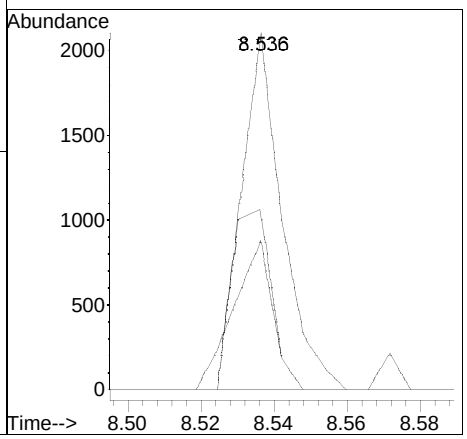


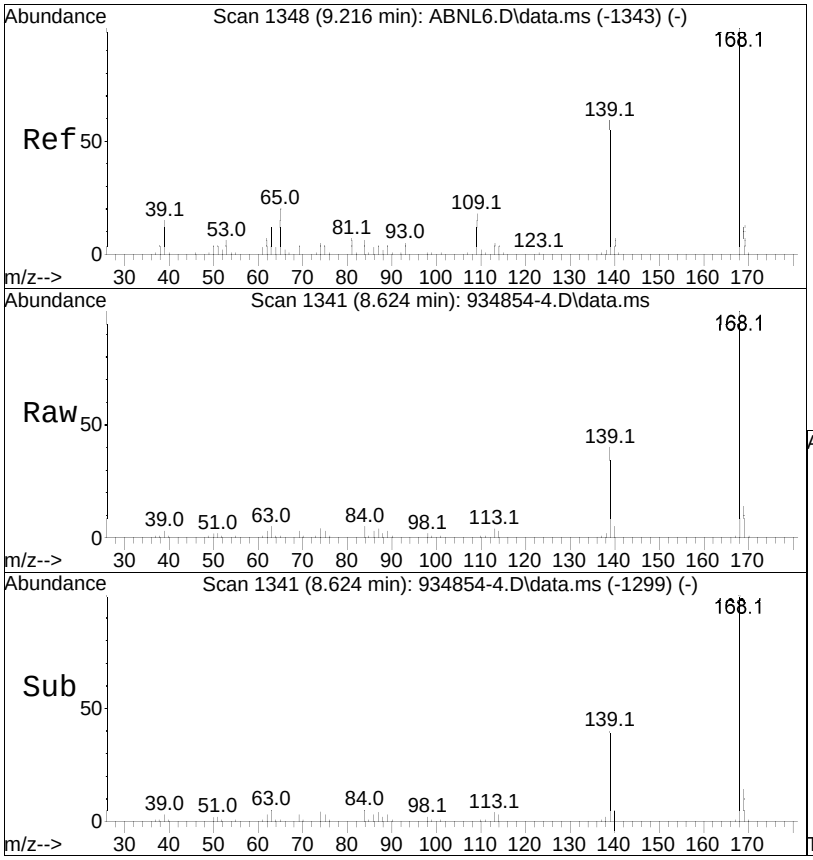


#65
2,4-Dinitrophenol
Concen: 0.60 ug/ml
RT: 8.536 min Scan# 1326
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:184 Resp: 1615

Ion	Ratio	Lower	Upper
184	100		
107	49.2	37.7	56.5
91	40.4	46.3	69.5#

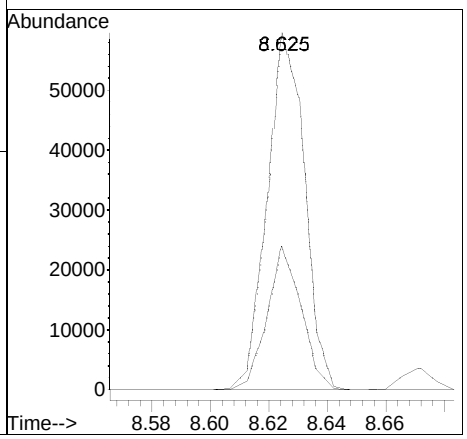


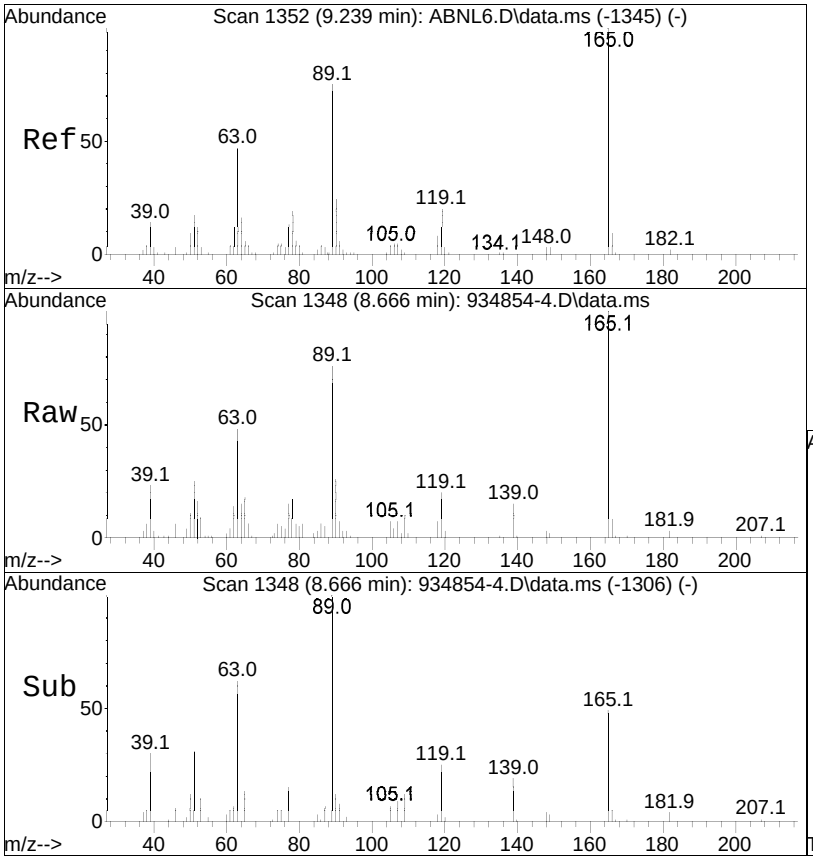


#66
Dibenzofuran
Concen: 0.98 ug/ml
RT: 8.624 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:168 Resp: 52309

Ion	Ratio	Lower	Upper
168	100		
139	37.0	31.4	47.2

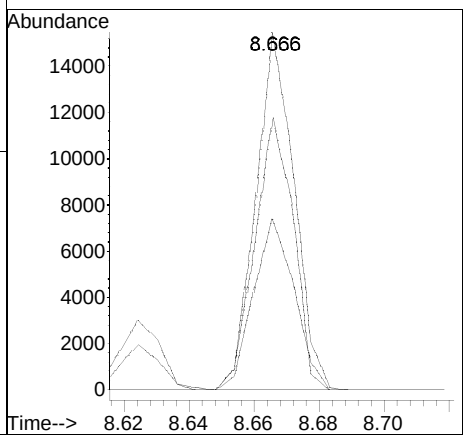


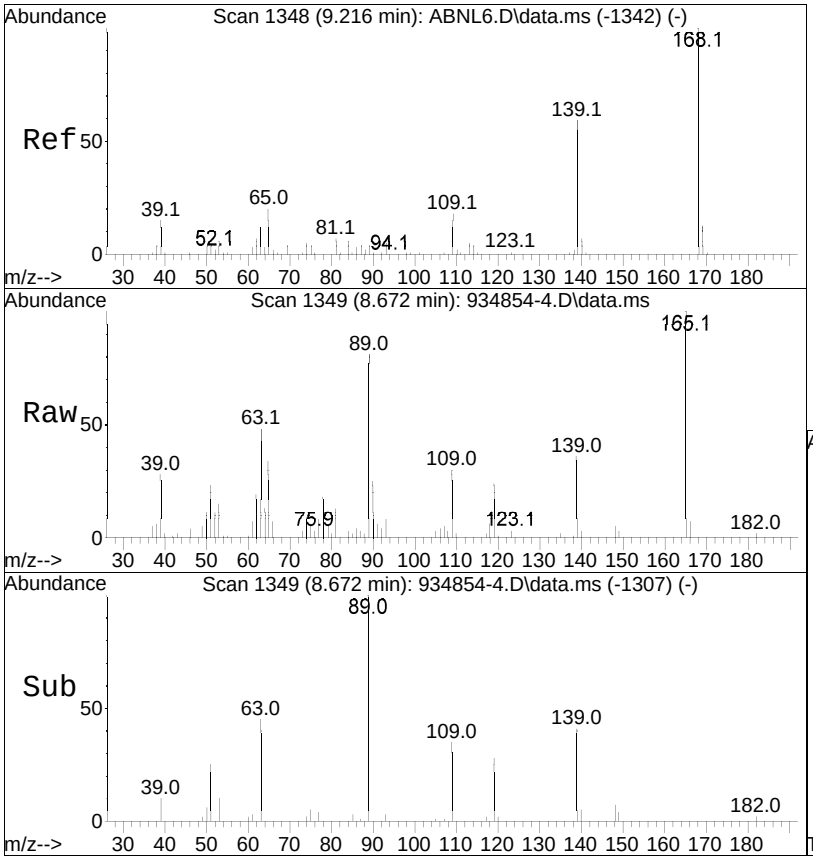


#67
2,4-Dinitrotoluene
Concen: 1.03 ug/ml
RT: 8.666 min Scan# 1348
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:165 Resp: 12570

Ion	Ratio	Lower	Upper
165	100		
89	76.6	72.0	108.0
63	51.2	52.7	79.1#

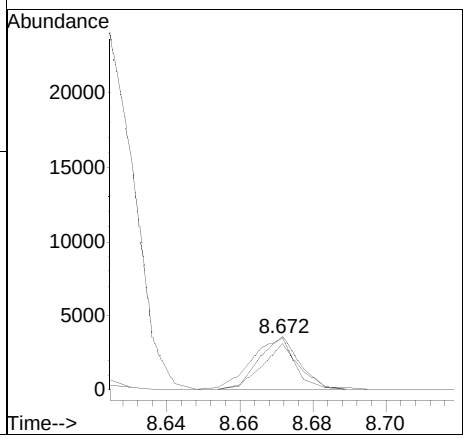


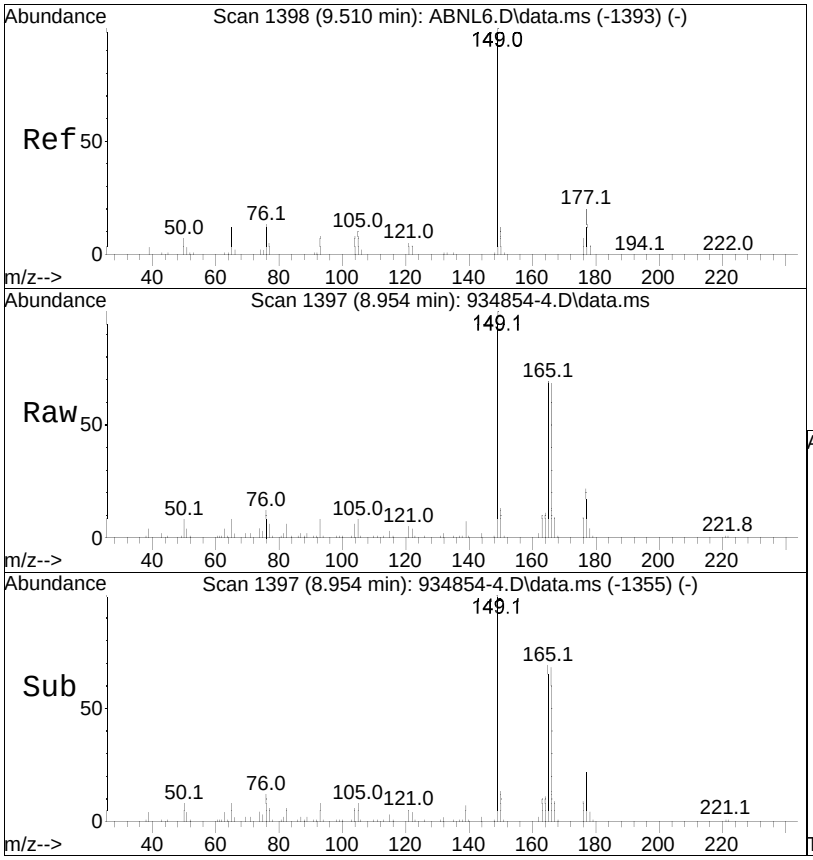


#68
4-Nitrophenol
Concen: 0.29 ug/ml
RT: 8.672 min Scan# 1349
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion: 65 Resp: 2846

Ion	Ratio	Lower	Upper
65	100		
109	77.2	47.4	71.2#
139	96.1	76.6	115.0

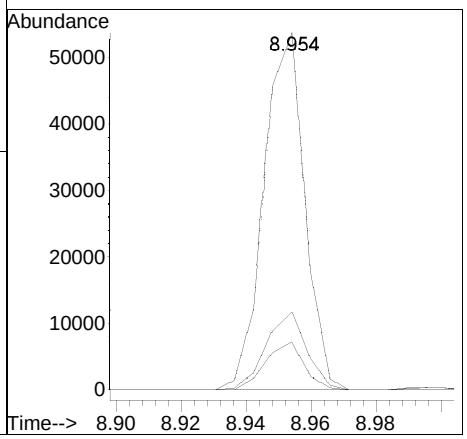


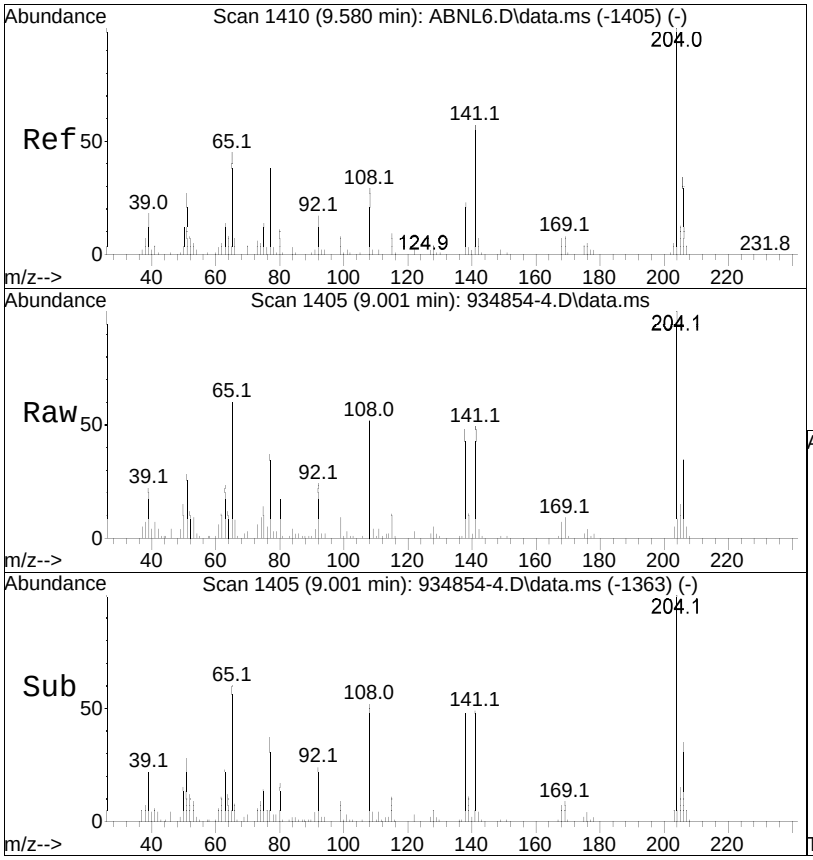


#71
Diethyl phthalate
Concen: 1.05 ug/ml
RT: 8.954 min Scan# 1397
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:149 Resp: 46685

Ion	Ratio	Lower	Upper
149	100		
177	21.8	16.1	24.1
150	12.8	9.4	14.2

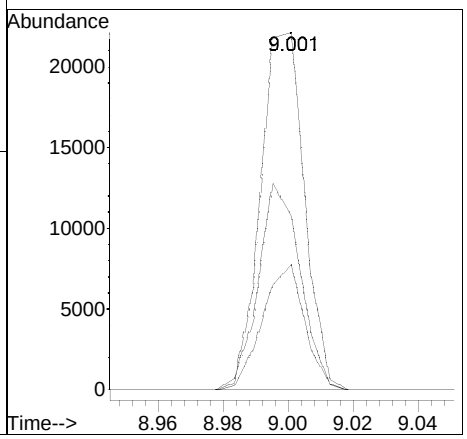


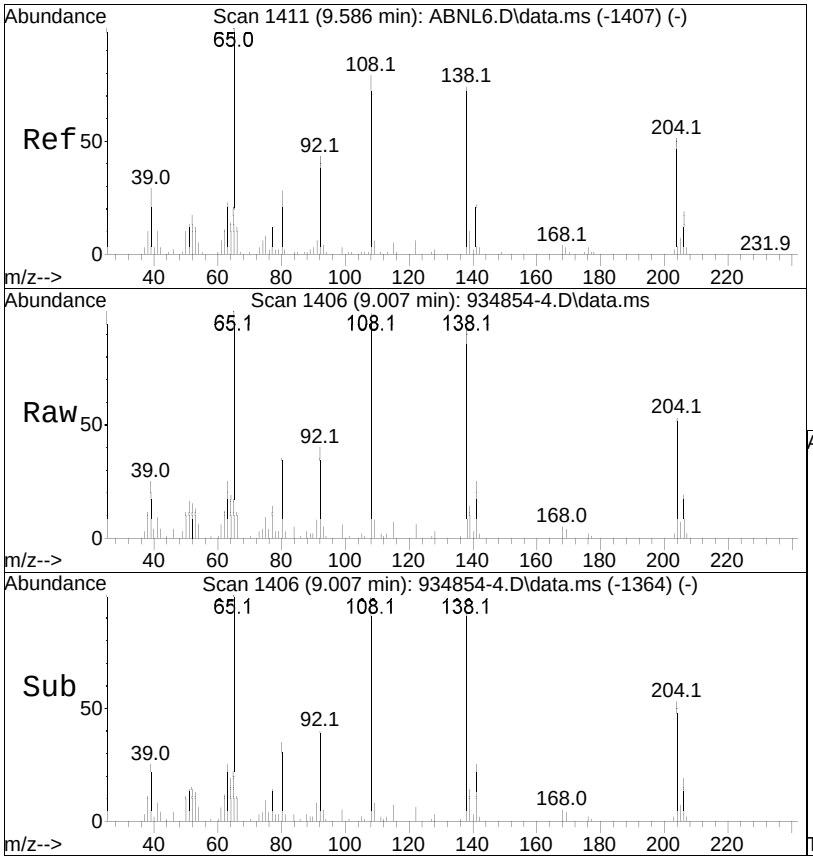


#73
4-Chlorophenyl phenyl ether
Concen: 0.93 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:204 Resp: 20599

Ion	Ratio	Lower	Upper
204	100		
206	34.1	25.8	38.6
141	55.3	53.6	80.4

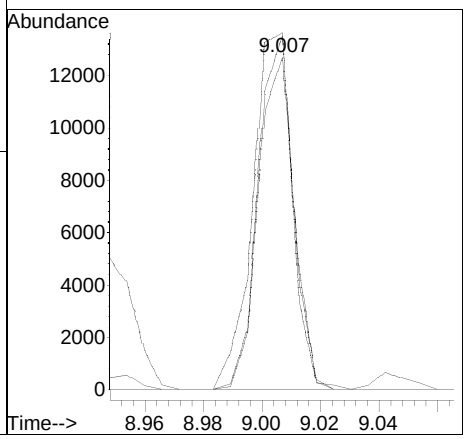


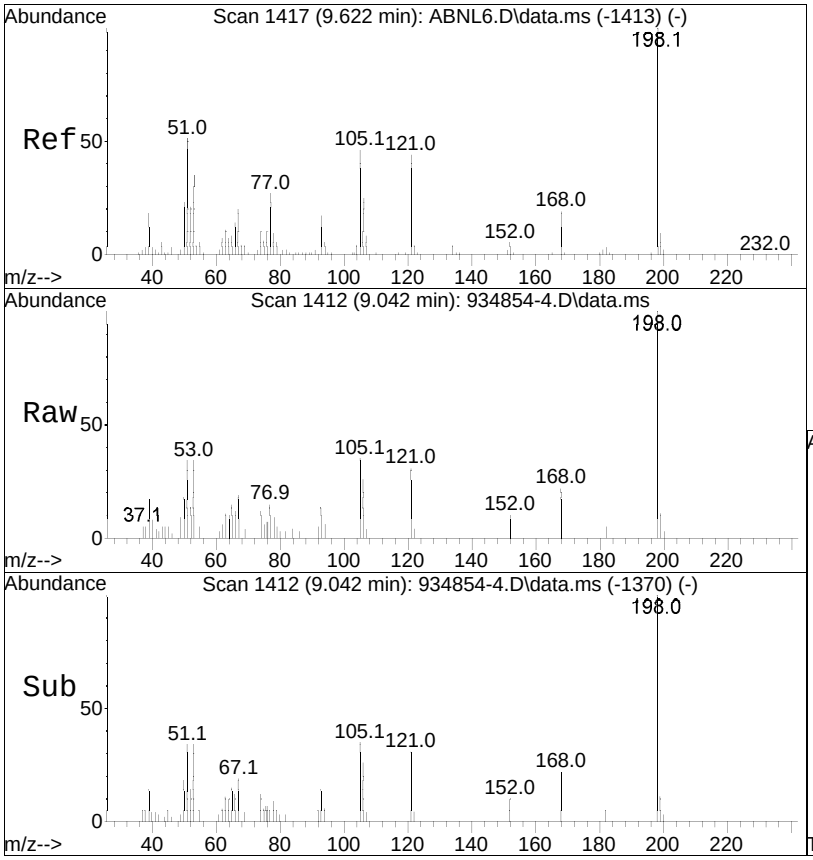


#74
4-Nitroaniline
Concen: 1.22 ug/ml
RT: 9.007 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:138 Resp: 10783

Ion	Ratio	Lower	Upper
138	100		
108	104.4	52.1	78.1#
65	118.0	115.0	172.6

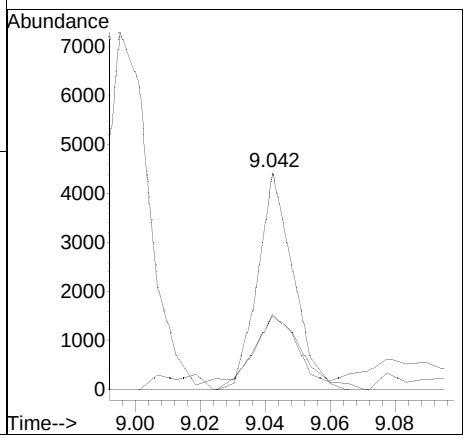


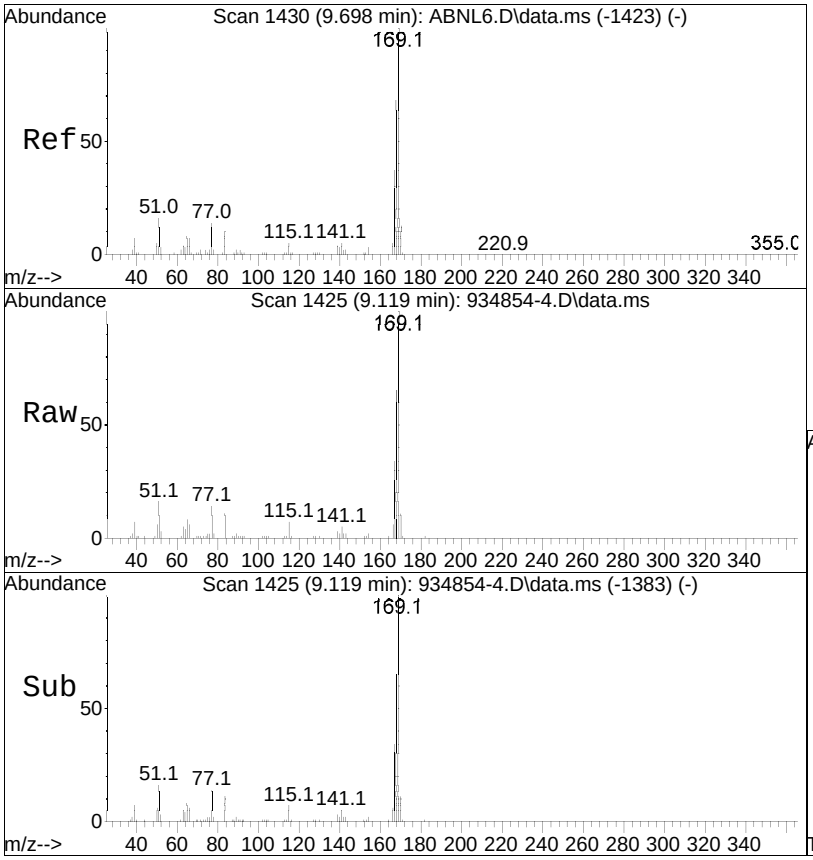


#75
4,6-Dinitro-o-cresol
Concen: 0.49 ug/ml
RT: 9.042 min Scan# 1412
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:198 Resp: 3375

Ion	Ratio	Lower	Upper
198	100		
51	38.2	76.0	114.0#
105	45.0	45.6	68.4#

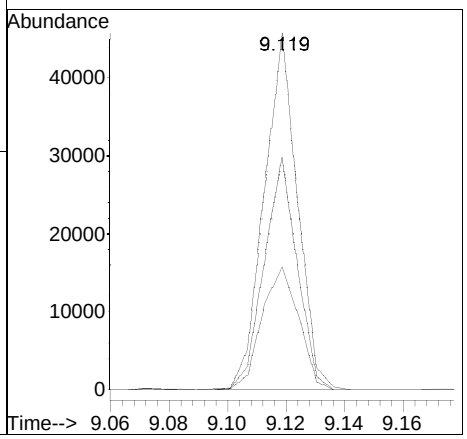


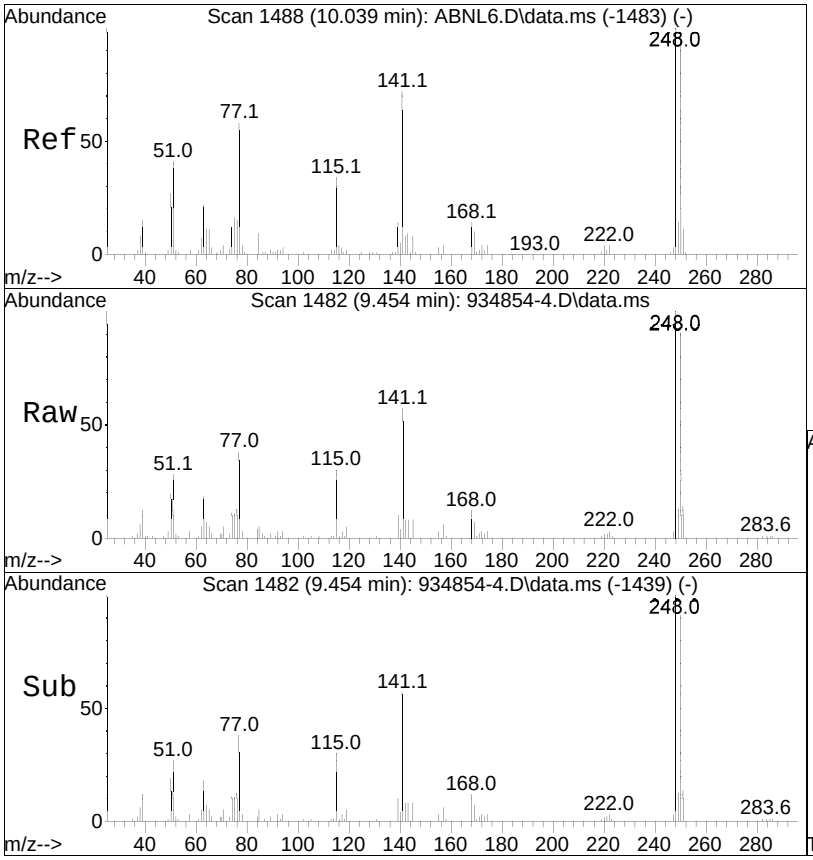


#76
NDPA/DPA
Concen: 1.04 ug/ml
RT: 9.119 min Scan# 1425
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:169 Resp: 36024

Ion	Ratio	Lower	Upper
169	100		
168	64.7	54.0	81.0
167	38.3	28.6	42.8

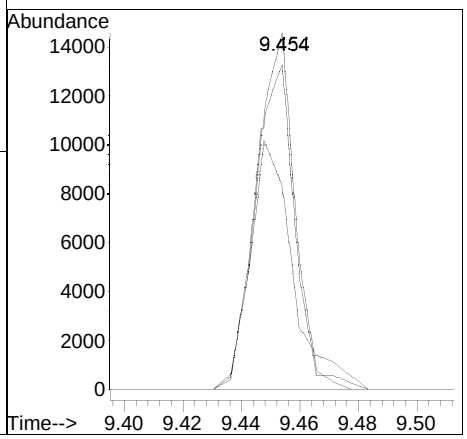


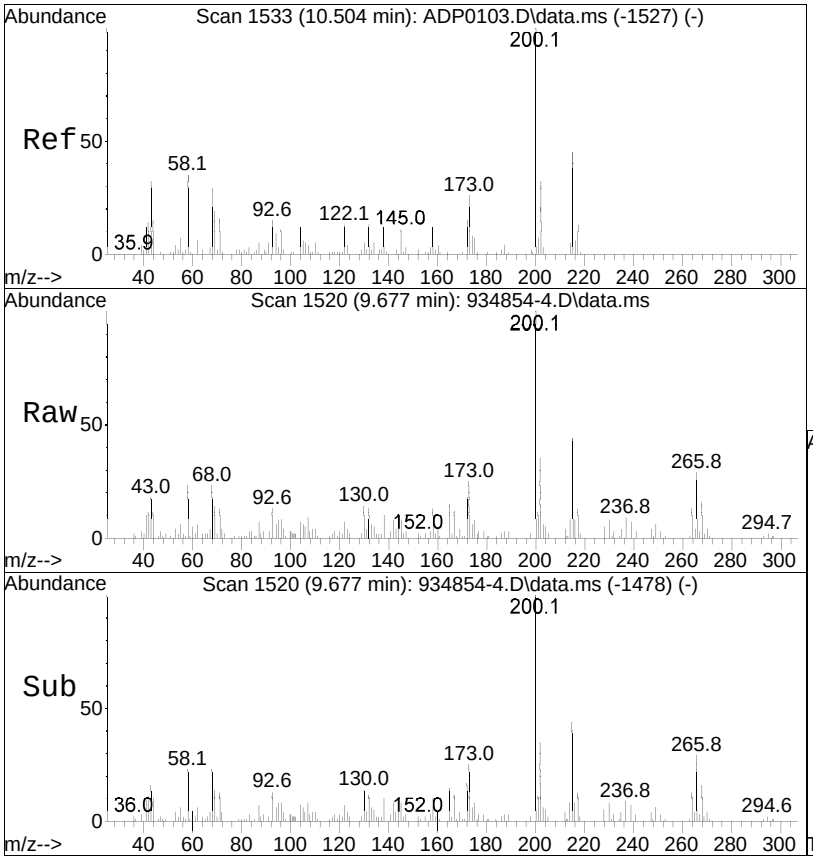


#79
4-Bromophenyl phenyl ether
Concen: 1.02 ug/ml
RT: 9.454 min Scan# 1482
Delta R.T. 0.006 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:248 Resp: 13364

Ion	Ratio	Lower	Upper
248	100		
141	77.6	76.6	114.8
250	94.3	77.3	115.9

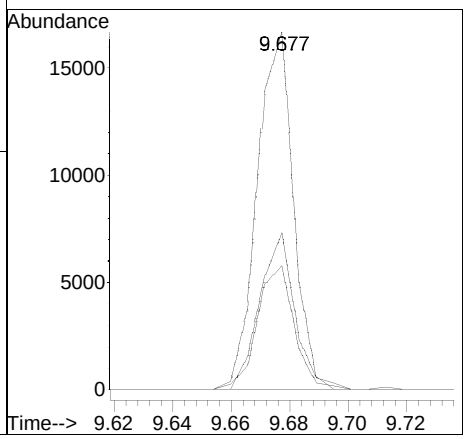


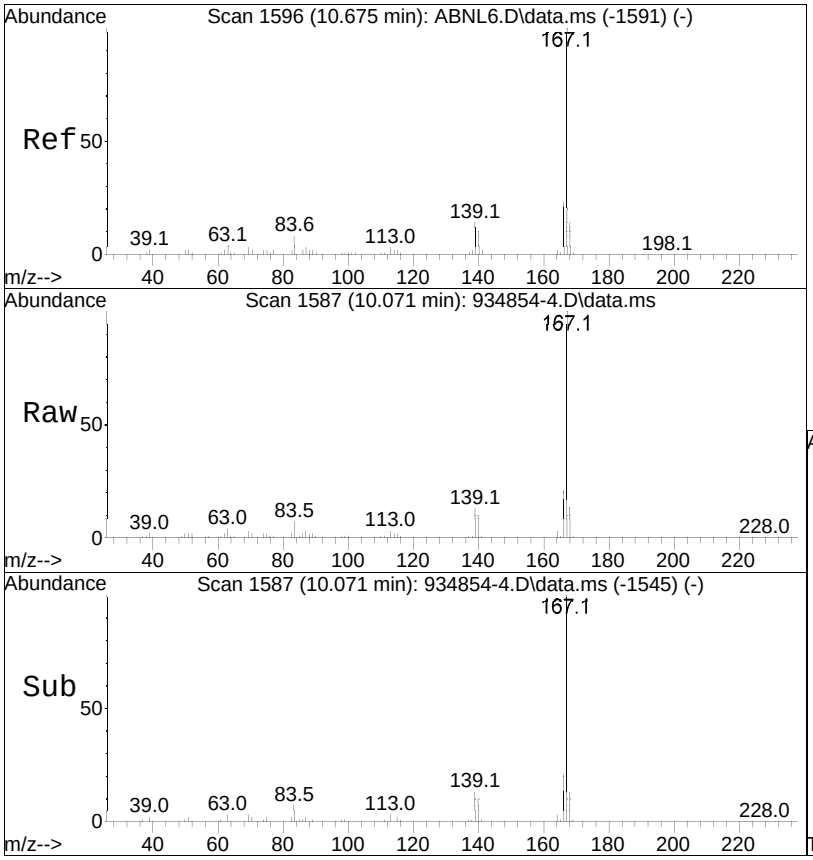


#86
Atrazine
Concen: 1.15 ug/ml
RT: 9.677 min Scan# 1520
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:200 Resp: 14255

Ion	Ratio	Lower	Upper
200	100		
202	35.5	25.8	38.6
215	42.1	40.2	60.4

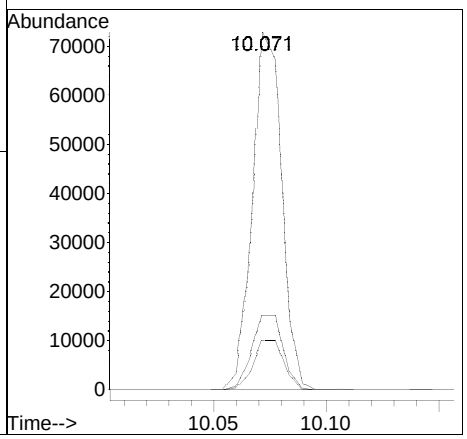


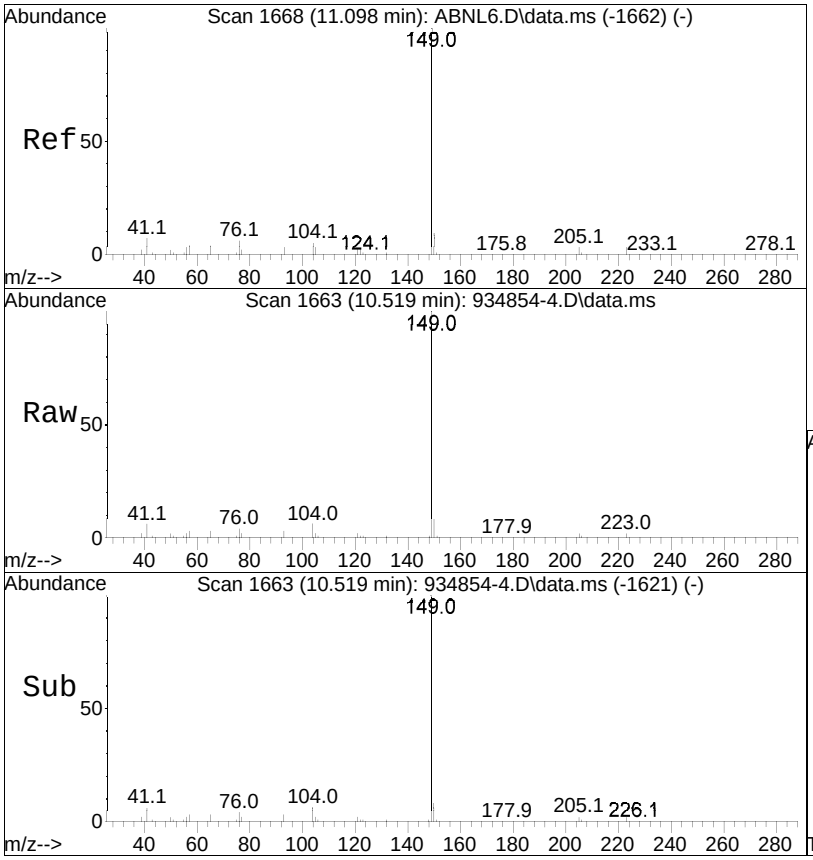


#90
Carbazole
Concen: 1.10 ug/ml
RT: 10.071 min Scan# 1587
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:167 Resp: 65356

Ion	Ratio	Lower	Upper
167	100		
168	14.5	10.6	15.8
166	22.4	17.4	26.0

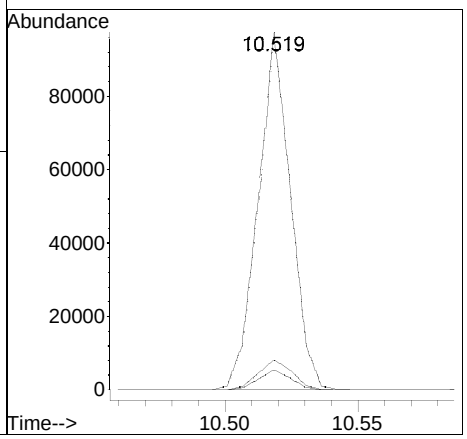


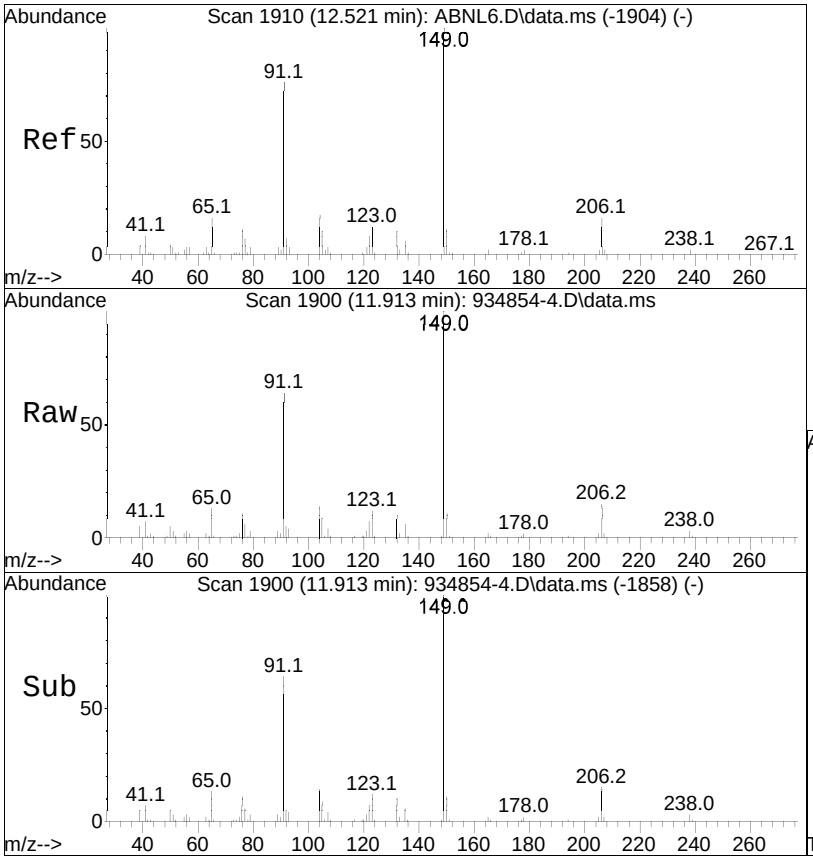


#91
Di-n-butylphthalate
Concen: 1.12 ug/ml
RT: 10.519 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:149 Resp: 81253

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	5.6	4.5	6.7

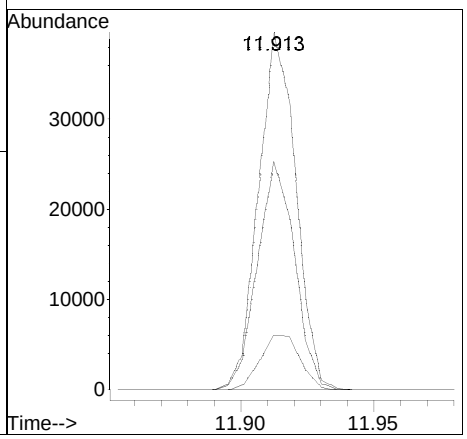


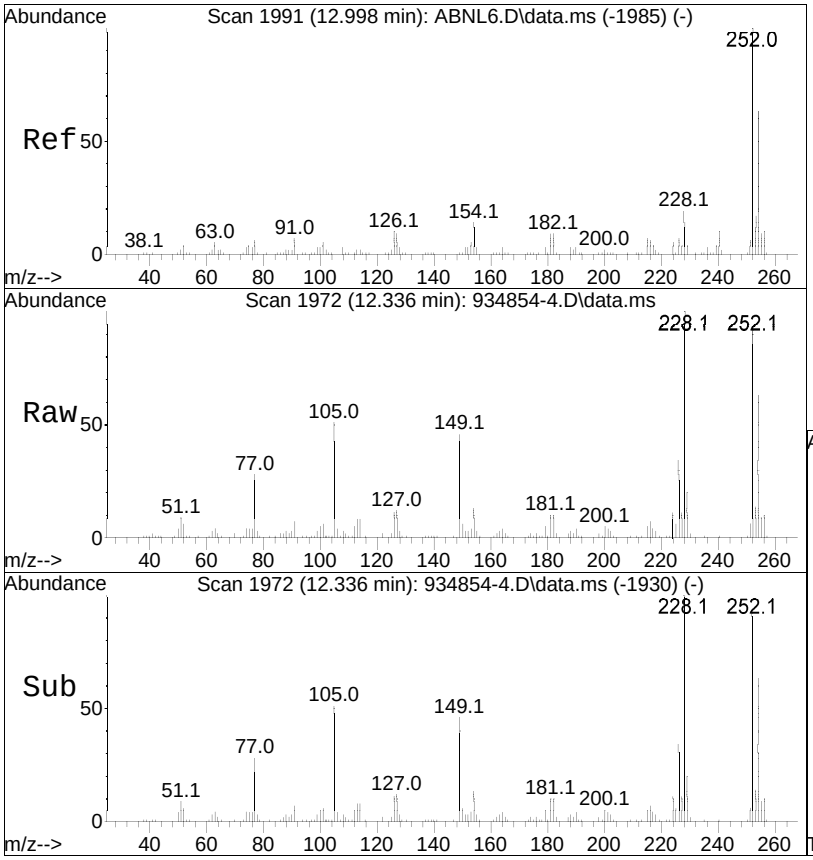


#96
Butyl benzyl phthalate
Concen: 1.24 ug/ml
RT: 11.913 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:149 Resp: 38275

Ion	Ratio	Lower	Upper
149	100		
91	63.8	63.3	94.9
206	16.4	13.9	20.9

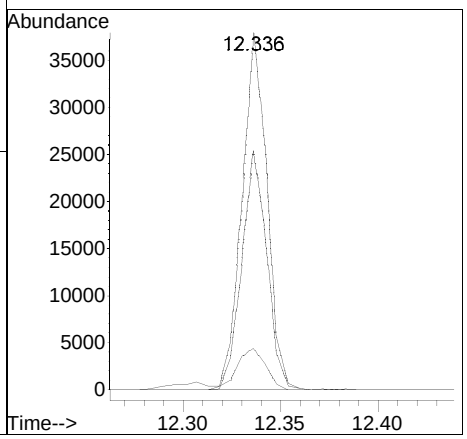


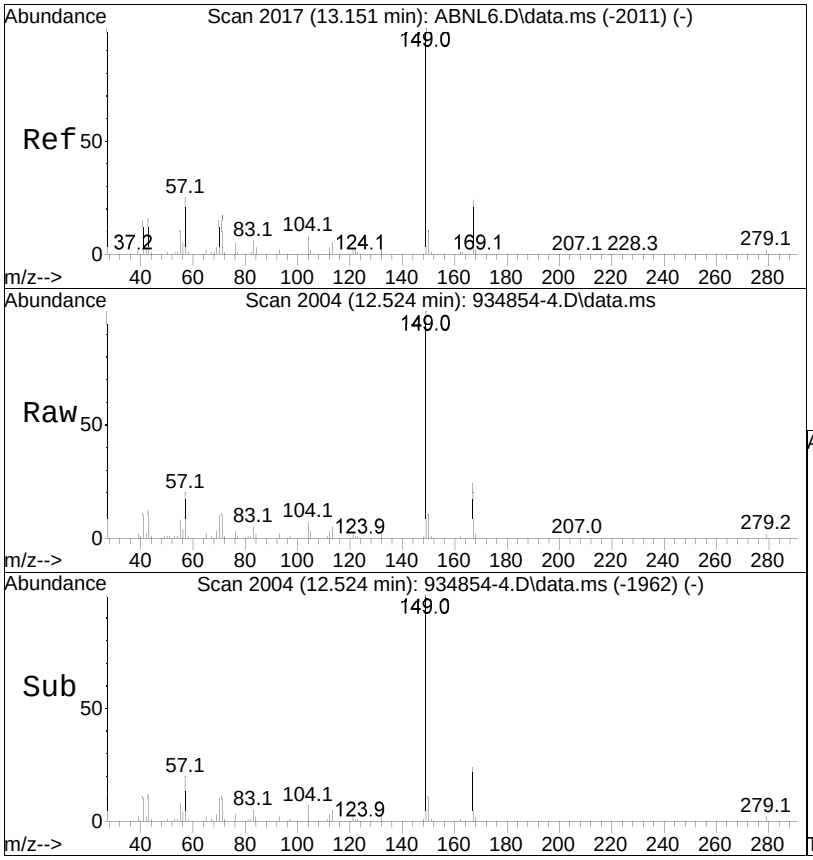


#105
3,3'-Dichlorobenzidine
Concen: 1.24 ug/ml
RT: 12.336 min Scan# 1972
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:252 Resp: 33536

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	67.2	51.2	76.8

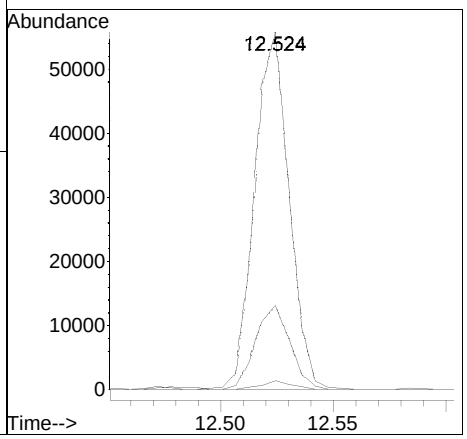


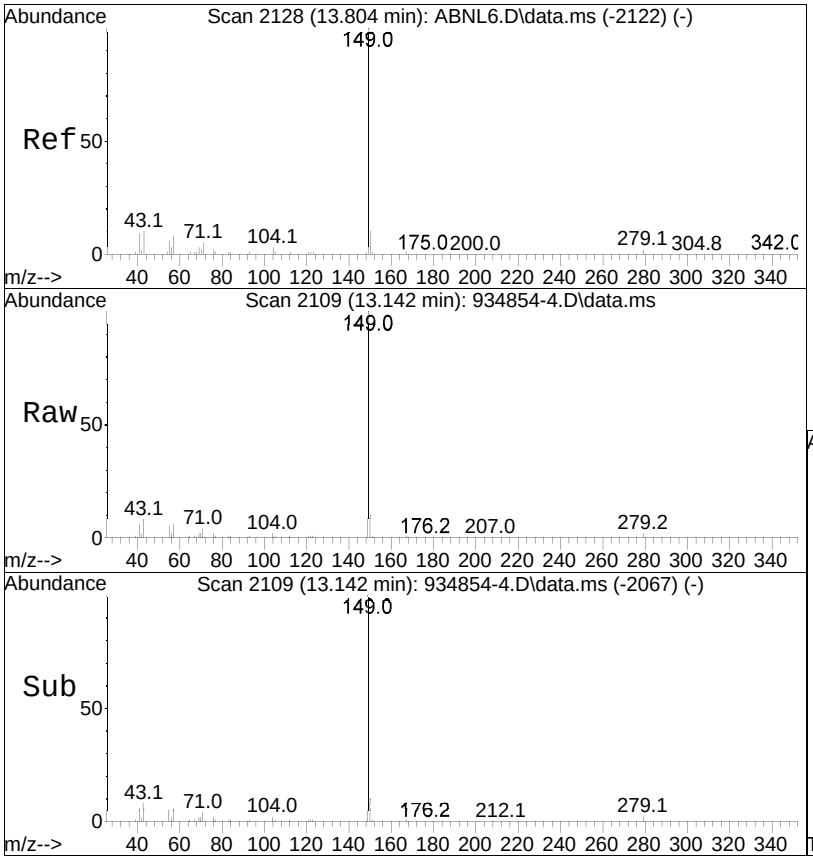


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.26 ug/ml
RT: 12.524 min Scan# 2004
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:149 Resp: 58801

Ion	Ratio	Lower	Upper
149	100		
167	23.7	22.1	33.1
279	2.0	3.0	4.4#

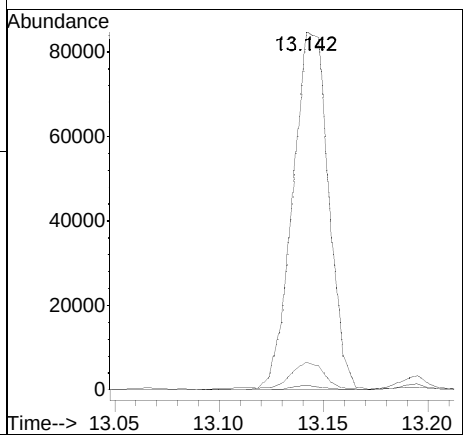




#108
Di-n-octylphthalate
Concen: 1.31 ug/ml
RT: 13.142 min Scan# 2109
Delta R.T. -0.000 min
Lab File: 934854-4.D
Acq: 18 Jun 2024 5:45 pm

Tgt Ion:149 Resp: 100056

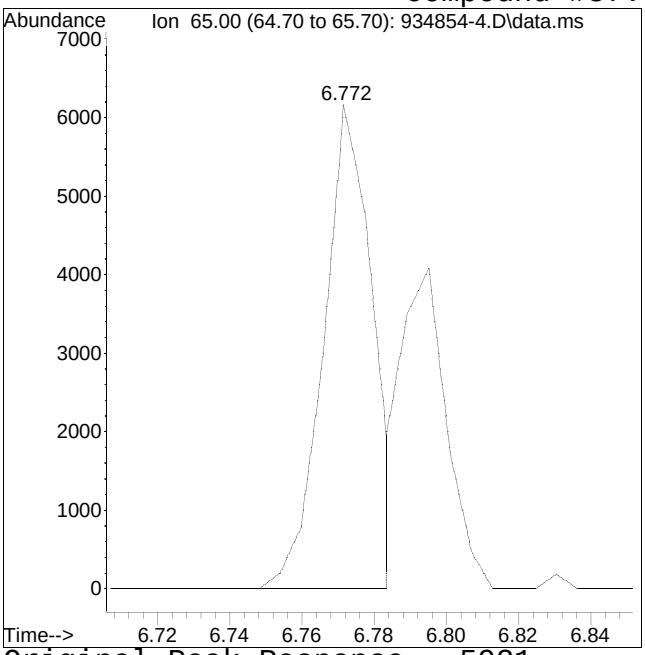
Ion	Ratio	Lower	Upper
149	100		
43	8.2	18.8	28.2#
167	1.2	1.3	1.9#



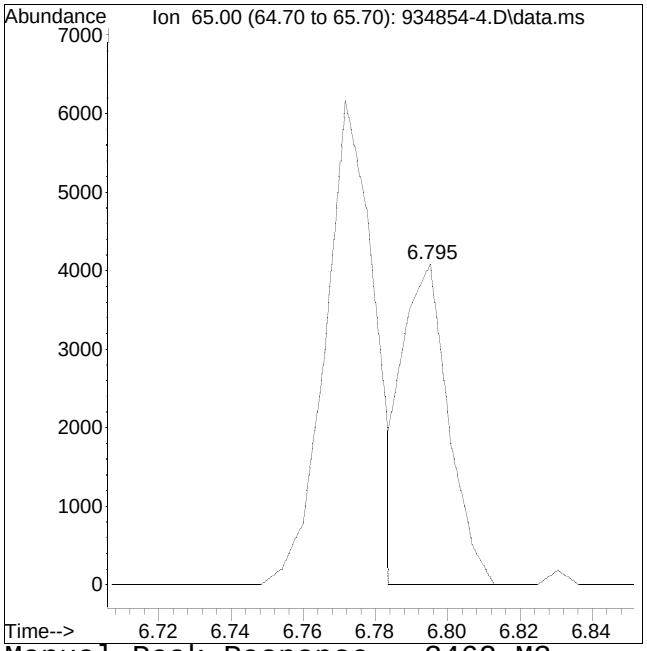
Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 934854-4.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 5:45 pm	Instrument	: SV 106
Sample	: WG1934854-4,32,,HNY	Quant Date	: 6/18/2024 7:04 pm

Compound #37: 4-Chloroaniline



Original Peak Response = 5921



Manual Peak Response = 3462 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-5.D
Acq On : 18 Jun 2024 6:09 pm
Operator : SV106:ek
Sample : WG1934854-5,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 19:05:32 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.895	152	49817	4.000	ug/ml	0.01
Standard Area 1 = 59410			Recovery = 83.85%			
27) IS2_1,4-Dichlorobenzen...	4.895	152	49817	4.000	ug/ml	0.00
Standard Area 3 = 68372			Recovery = 72.86%			
34) IS1_Naphthalene-d8	6.637	136	180450	4.000	ug/ml	0.00
Standard Area 1 = 213276			Recovery = 84.61%			
54) IS2_Naphthalene-d8	6.637	136	180450	4.000	ug/ml	0.00
Standard Area 3 = 247905			Recovery = 72.79%			
62) IS1_Acenaphthene-d10	8.425	164	115162	4.000	ug/ml	0.00
Standard Area 1 = 133811			Recovery = 86.06%			
82) IS2_Acenaphthene-d10	8.425	164	115162	4.000	ug/ml	0.00
Standard Area 3 = 155729			Recovery = 73.95%			
85) IS3_Acenaphthene-d10	8.425	164	115162	4.000	ug/ml	0.00
Standard Area 2 = 113234			Recovery = 101.70%			
87) IS1_Phenanthrene-d10	9.819	188	248983	4.000	ug/ml	0.00
Standard Area 1 = 278713			Recovery = 89.33%			
99) IS3_Phenanthrene-d10	9.819	188	248983	4.000	ug/ml	0.00
Standard Area 2 = 268207			Recovery = 92.83%			
103) IS1_Chrysene-d12	12.307	240	228671	4.000	ug/ml	0.00
Standard Area 1 = 273149			Recovery = 83.72%			
112) IS1_Perylene-d12	13.630	264	259850	4.000	ug/ml	0.00
Standard Area 1 = 315272			Recovery = 82.42%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.031	112	5138	0.365	ug/ml	0.05
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.25%			
7) Phenol-d6	4.460	99	8494	0.467	ug/ml	0.02
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.35%			
19) Nitrobenzene-d5	5.795	82	11673	0.599	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.90%			
45) 2-Fluorobiphenyl	7.825	172	29071	0.695	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 69.50%			
78) 2,4,6-Tribromophenol	9.183	330	4167	0.680	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.00%			
95) 4-Terphenyl-d14	11.383	244	42575	0.794	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 79.40%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-5.D
Acq On : 18 Jun 2024 6:09 pm
Operator : SV106:ek
Sample : WG1934854-5,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 19:05:32 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.484	128	10378	0.678	ug/ml#	89
8) Phenol	4.495	94	11467	0.592	ug/ml#	86
14) Bis(2-chloroisopropyl)...	5.519	45	17470	0.772	ug/ml#	55
15) 2-Methylphenol	5.554	108	16140	1.170	ug/ml	93
17) n-Nitrosodi-n-propylamine	5.701	70	15459	1.200	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.790	108	15861	1.058	ug/ml	99
20) Nitrobenzene	5.819	77	29217	1.559	ug/ml	90
21) Isophorone	6.166	82	41519	1.249	ug/ml#	94
22) 2-Nitrophenol	6.237	139	5434	0.701	ug/ml#	80
23) 2,4-Dimethylphenol	6.419	107	11697	0.745	ug/ml	95
24) Bis(2-chloroethoxy)met...	6.507	93	26307	1.261	ug/ml#	94
25) 2,4-Dichlorophenol	6.542	162	10104	0.706	ug/ml	88
28) Benzaldehyde	3.778	105	18429	1.351	ug/ml	89
29) Acetophenone	5.619	105	34046	1.380	ug/ml#	83
37) 4-Chloroaniline	6.795	65	6532M3	0.905	ug/ml	
39) p-Chloro-m-cresol	7.384	107	17795	1.207	ug/ml	94
42) Hexachlorocyclopentadiene	7.607	237	13228	1.074	ug/ml	100
43) 2,4,6-Trichlorophenol	7.742	196	5874	0.490	ug/ml	98
44) 2,4,5-Trichlorophenol	7.772	196	7720	0.592	ug/ml	92
47) 2-Nitroaniline	8.031	138	16497	1.700	ug/ml#	85
50) Dimethyl phthalate	8.266	163	65947	1.489	ug/ml#	97
52) 2,6-Dinitrotoluene	8.289	165	14533	1.634	ug/ml	97
59) Caprolactam	7.125	55	3367	0.424	ug/ml#	63
60) 1,2,4,5-Tetrachloroben...	7.595	216	29140	1.402	ug/ml#	94
61) Biphenyl	7.907	154	58639	1.442	ug/ml	97
63) 3-Nitroaniline	8.431	138	13766	1.633	ug/ml#	95
65) 2,4-Dinitrophenol	8.536	184	1919	0.673	ug/ml#	81
66) Dibenzofuran	8.625	168	78317	1.569	ug/ml	96
67) 2,4-Dinitrotoluene	8.666	165	19879	1.733	ug/ml#	82
68) 4-Nitrophenol	8.672	65	3000	0.332	ug/ml#	82
71) Diethyl phthalate	8.954	149	65903	1.586	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.001	204	32239	1.562	ug/ml	90
74) 4-Nitroaniline	9.007	138	15082	1.826	ug/ml#	70
75) 4,6-Dinitro-o-cresol	9.042	198	3523	0.545	ug/ml#	64
76) NDPA/DPA	9.119	169	51688	1.600	ug/ml	97
79) 4-Bromophenyl phenyl e...	9.454	248	19201	1.562	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-5.D
Acq On : 18 Jun 2024 6:09 pm
Operator : SV106:ek
Sample : WG1934854-5,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 19:05:32 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\240618RVT\ABN0618a.D
: 2 - I:\8270\sv106\240618RVT\ADP0618.D
: 3 - I:\8270\sv106\240618RVT\AP90618.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Atrazine	9.678	200	19154	1.651	ug/ml	94
90)	Carbazole	10.072	167	94893	1.706	ug/ml	98
91)	Di-n-butylphthalate	10.519	149	114857	1.694	ug/ml	99
96)	Butyl benzyl phthalate	11.913	149	53812	1.866	ug/ml#	83
105)	3,3'-Dichlorobenzidine	12.336	252	47029	1.846	ug/ml#	96
107)	Bis(2-ethylhexyl)phtha...	12.524	149	80378	1.833	ug/ml#	94
108)	Di-n-octylphthalate	13.142	149	140191	1.951	ug/ml#	69

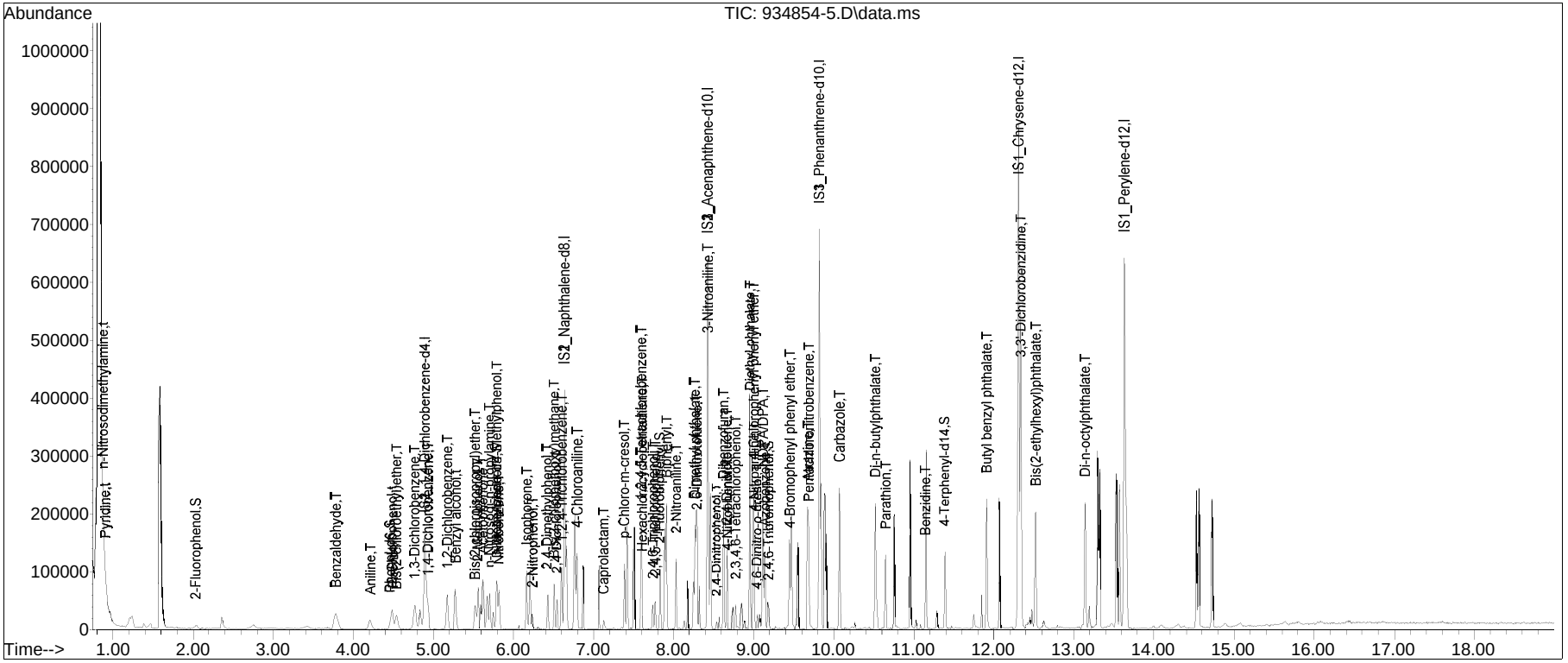
(#) = qualifier out of range (m) = manual integration (+) = signals summed

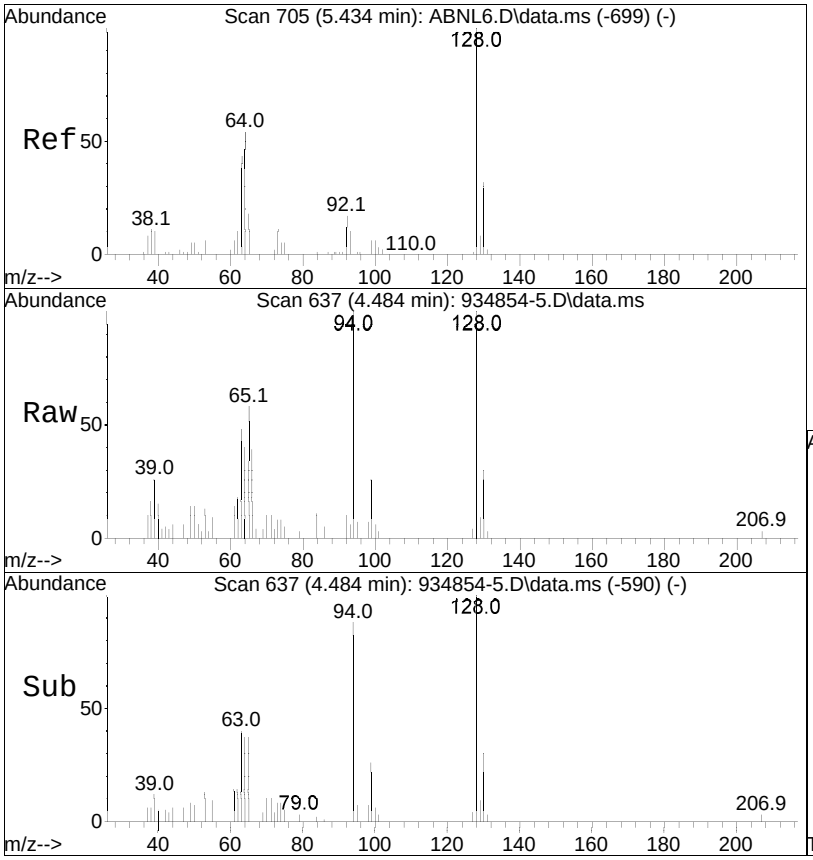
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240618RVT\
Data File : 934854-5.D
Acq On : 18 Jun 2024 6:09 pm
Operator : SV106:ek
Sample : WG1934854-5,32,,HNY
Misc : WG1935854,WG1934854,ical21056
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 18 19:05:32 2024
Quant Method : I:\8270\sv106\240618RVT\FS240418SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 18:29:43 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90618.D••

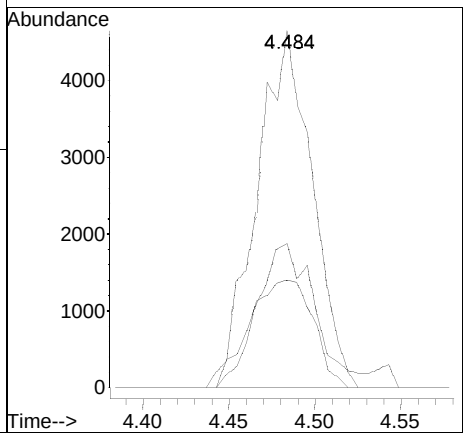


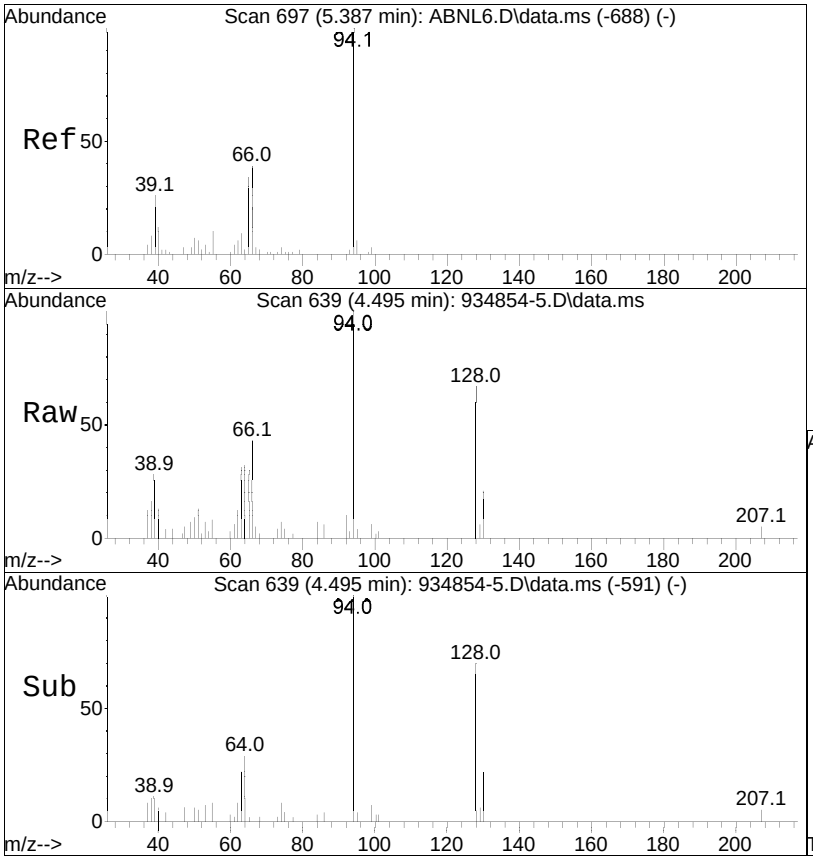


#6
2-Chlorophenol
Concen: 0.68 ug/ml
RT: 4.484 min Scan# 637
Delta R.T. 0.024 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:128 Resp: 10378

Ion	Ratio	Lower	Upper
128	100		
64	44.1	45.1	67.7#
130	33.1	26.2	39.4

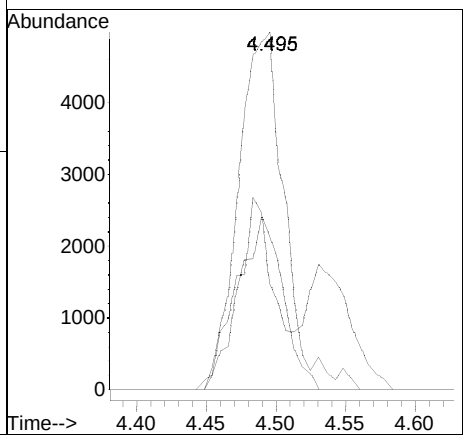


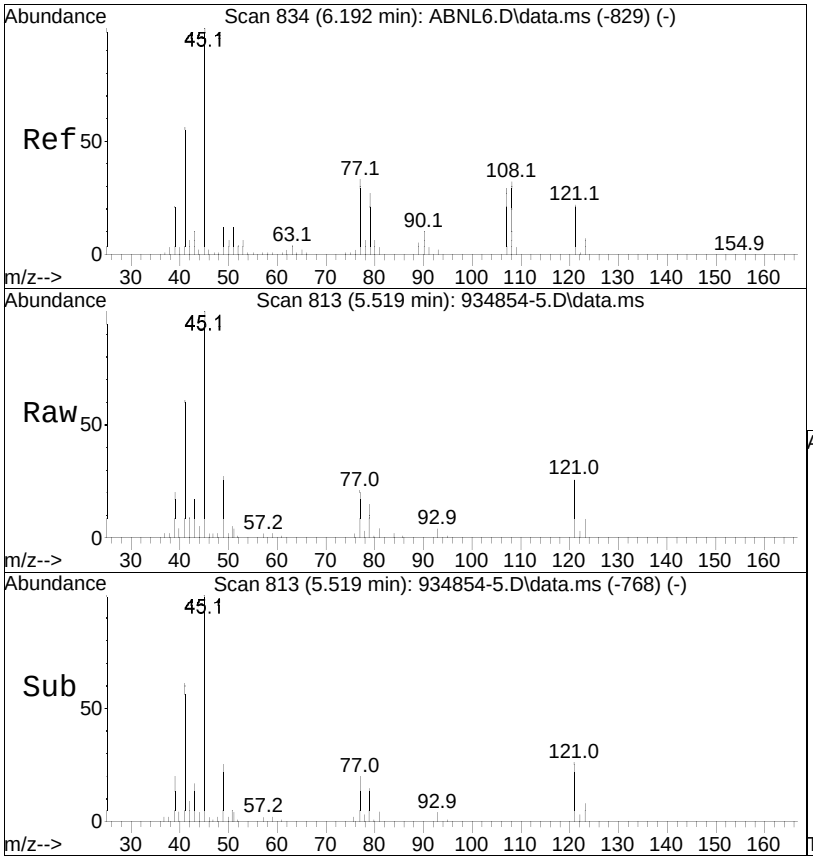


#8
Phenol
Concen: 0.59 ug/ml
RT: 4.495 min Scan# 639
Delta R.T. 0.029 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 94 Resp: 11467

Ion	Ratio	Lower	Upper
94	100		
65	45.6	26.0	39.0#
66	46.3	33.8	50.8

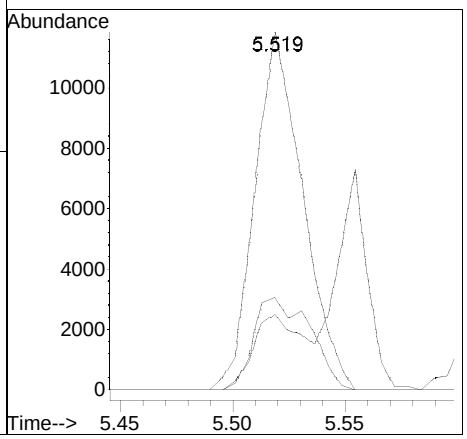


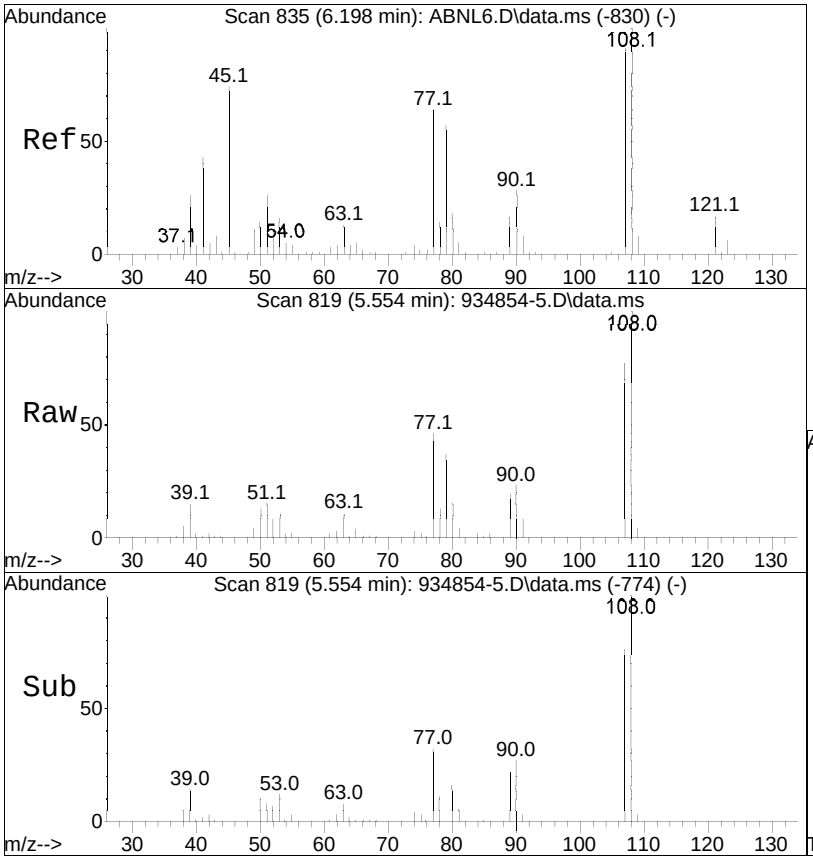


#14
Bis(2-chloroisopropyl)ether
Concen: 0.77 ug/ml
RT: 5.519 min Scan# 813
Delta R.T. 0.012 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 45 Resp: 17470

Ion	Ratio	Lower	Upper
45	100		
121	30.3	9.8	14.6#
77	22.8	6.1	9.1#

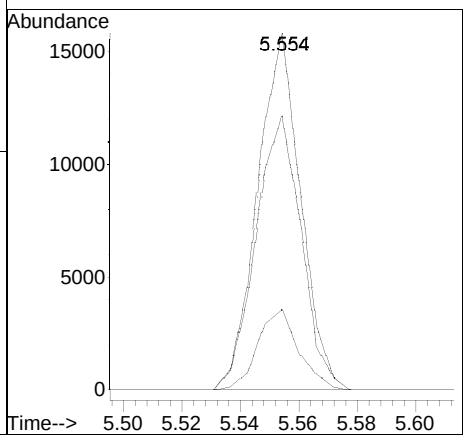


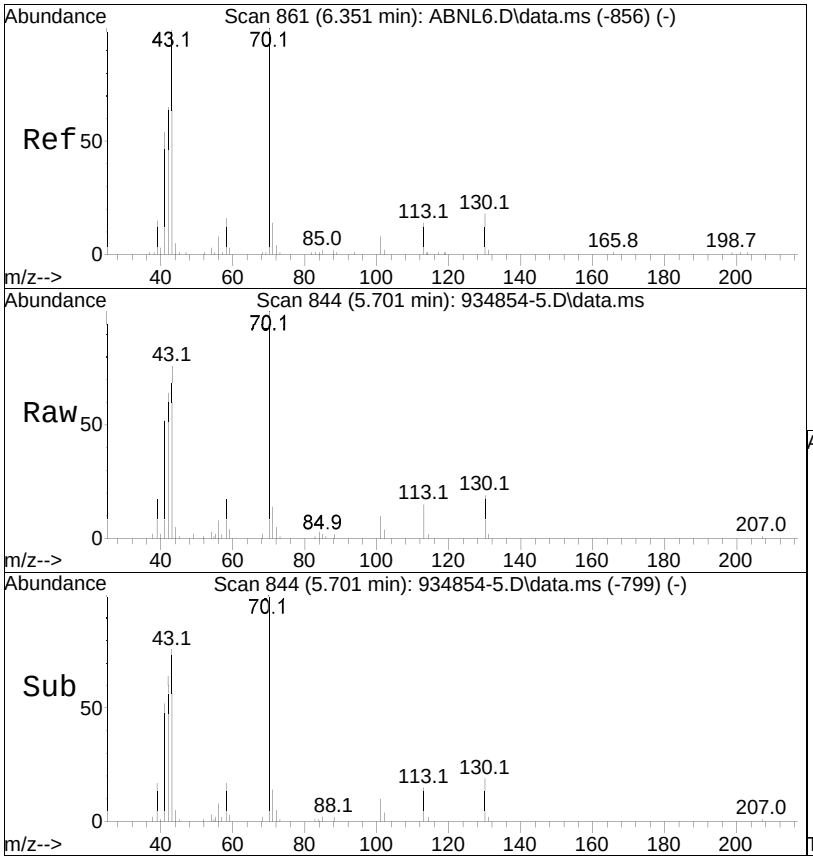


#15
2-Methylphenol
Concen: 1.17 ug/ml
RT: 5.554 min Scan# 819
Delta R.T. 0.012 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:108 Resp: 16140

Ion	Ratio	Lower	Upper
108	100		
107	80.9	70.7	106.1
90	21.6	18.7	28.1

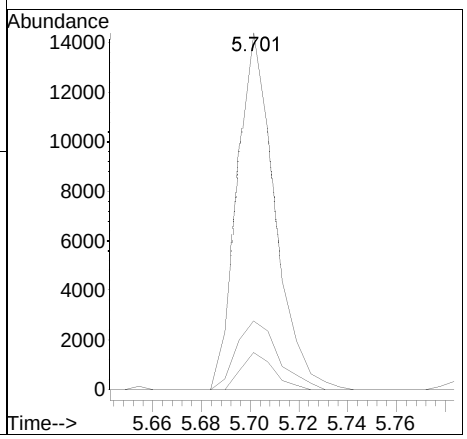


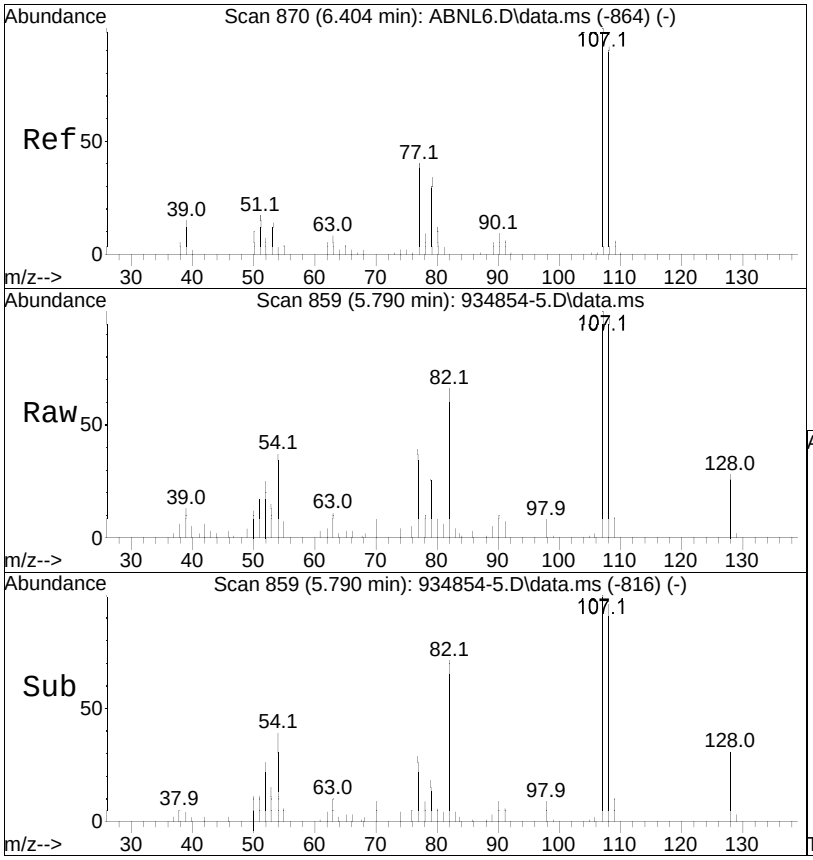


#17
n-Nitrosodi-n-propylamine
Concen: 1.20 ug/ml
RT: 5.701 min Scan# 844
Delta R.T. 0.012 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 70 Resp: 15459

Ion	Ratio	Lower	Upper
70	100		
130	21.3	18.2	27.4
101	8.9	7.8	11.8

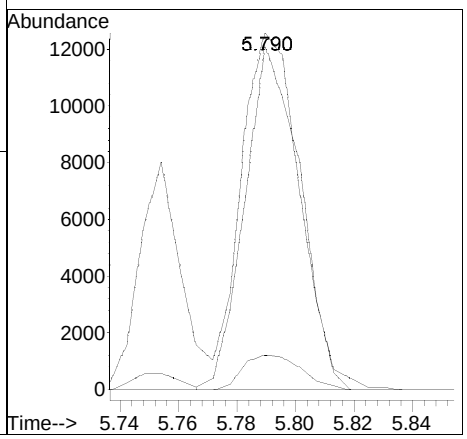


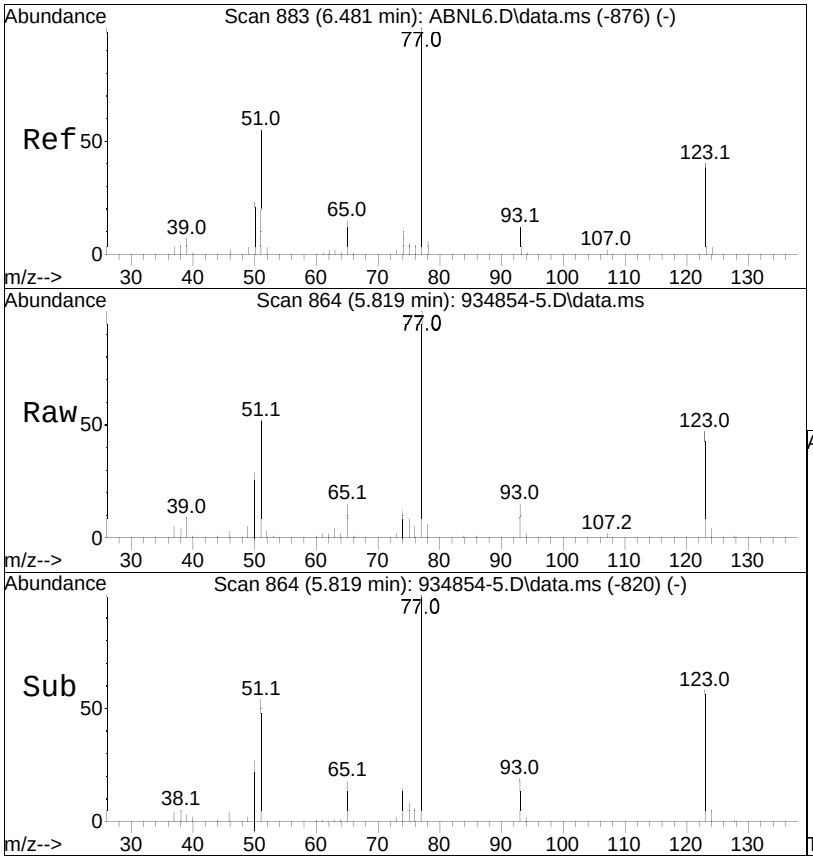


#18
3-Methylphenol/4-Methylphenol
Concen: 1.06 ug/ml
RT: 5.790 min Scan# 859
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:108 Resp: 15861

Ion	Ratio	Lower	Upper
108	100		
107	109.6	88.6	132.8
90	10.8	8.8	13.2

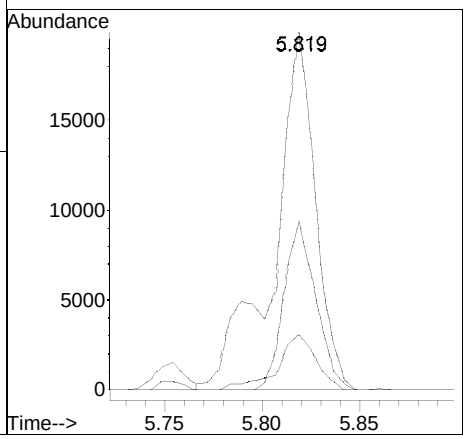


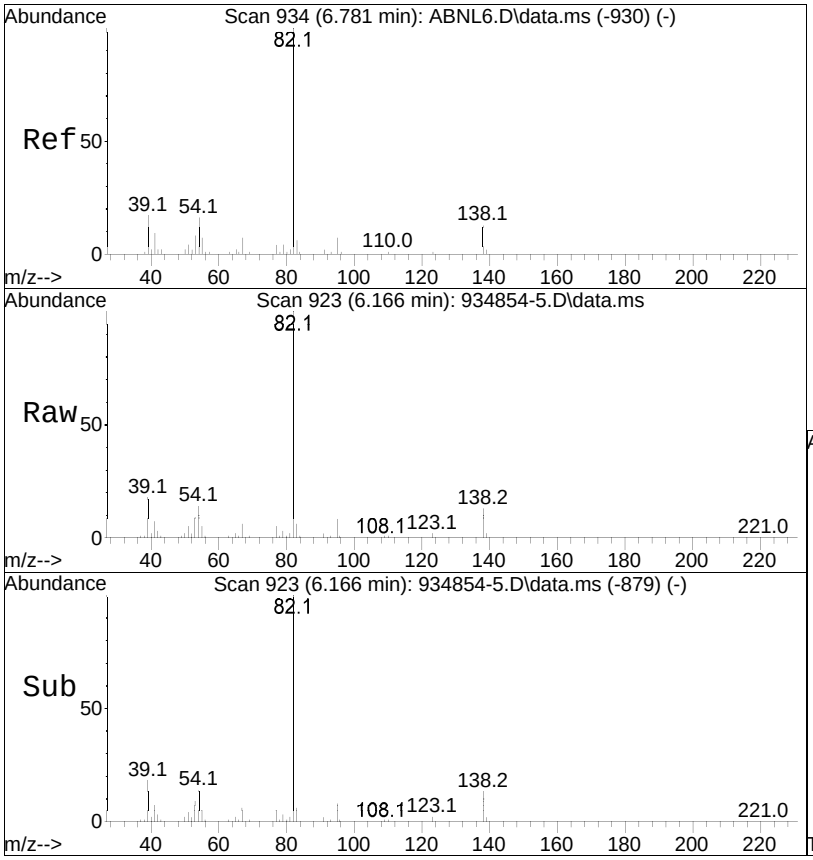


#20
Nitrobenzene
Concen: 1.56 ug/ml
RT: 5.819 min Scan# 864
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 77 Resp: 29217

Ion	Ratio	Lower	Upper
77	100		
123	36.4	36.3	54.5
65	14.5	11.6	17.4

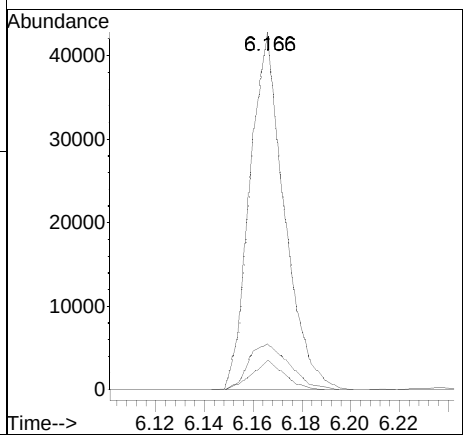


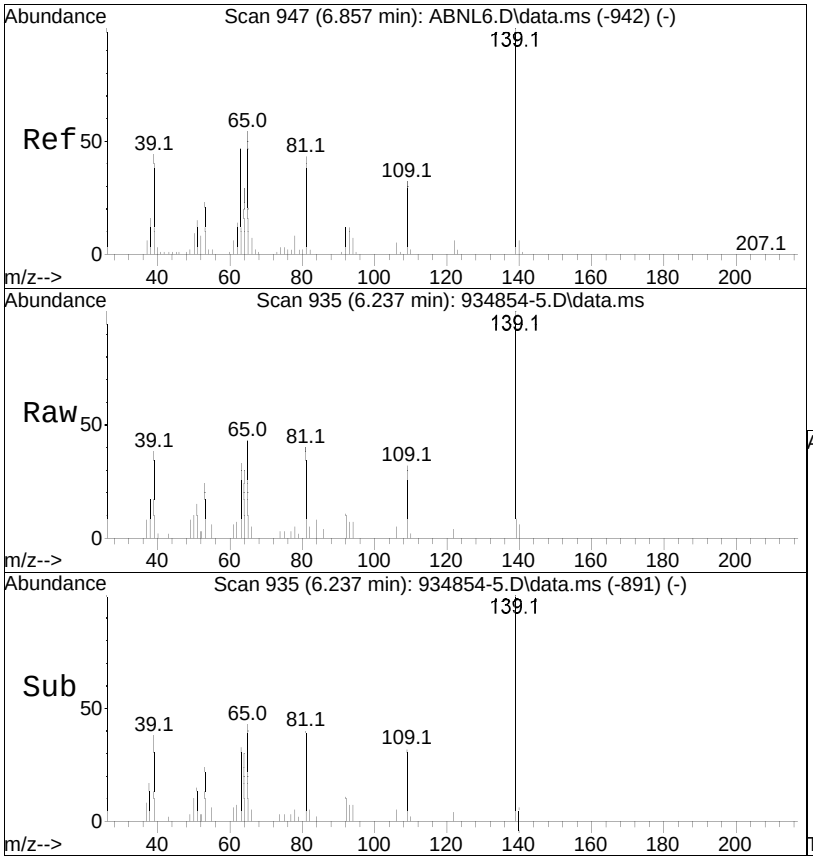


#21
Isophorone
Concen: 1.25 ug/ml
RT: 6.166 min Scan# 923
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 82 Resp: 41519

Ion	Ratio	Lower	Upper
82	100		
138	15.4	14.7	22.1
95	7.8	5.2	7.8#

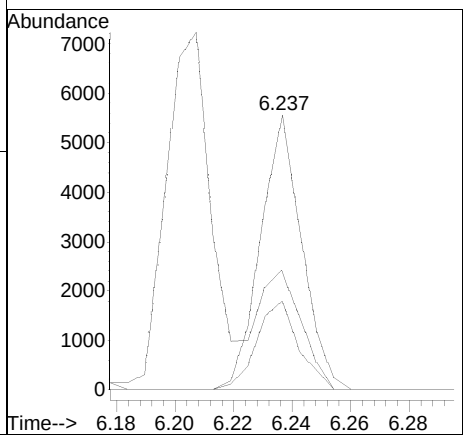


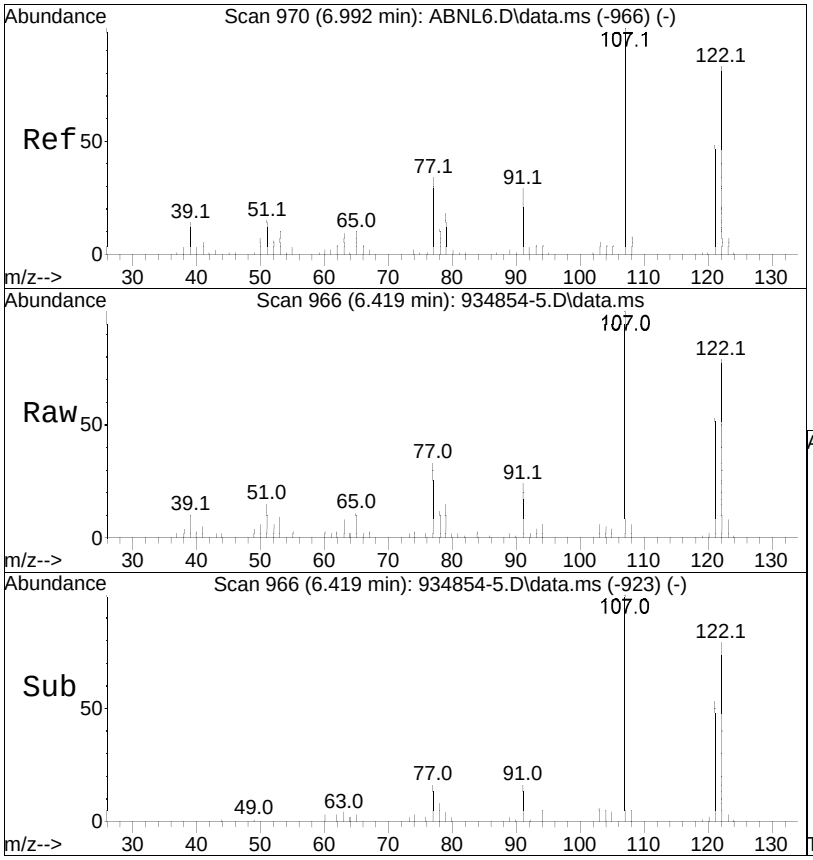


#22
2-Nitrophenol
Concen: 0.70 ug/ml
RT: 6.237 min Scan# 935
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:139 Resp: 5434

Ion	Ratio	Lower	Upper
139	100		
109	32.8	19.4	29.0#
65	42.3	46.1	69.1#

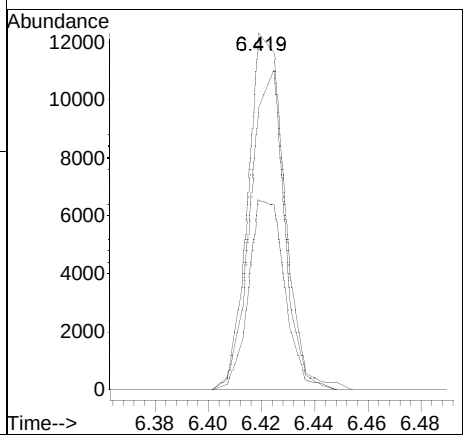


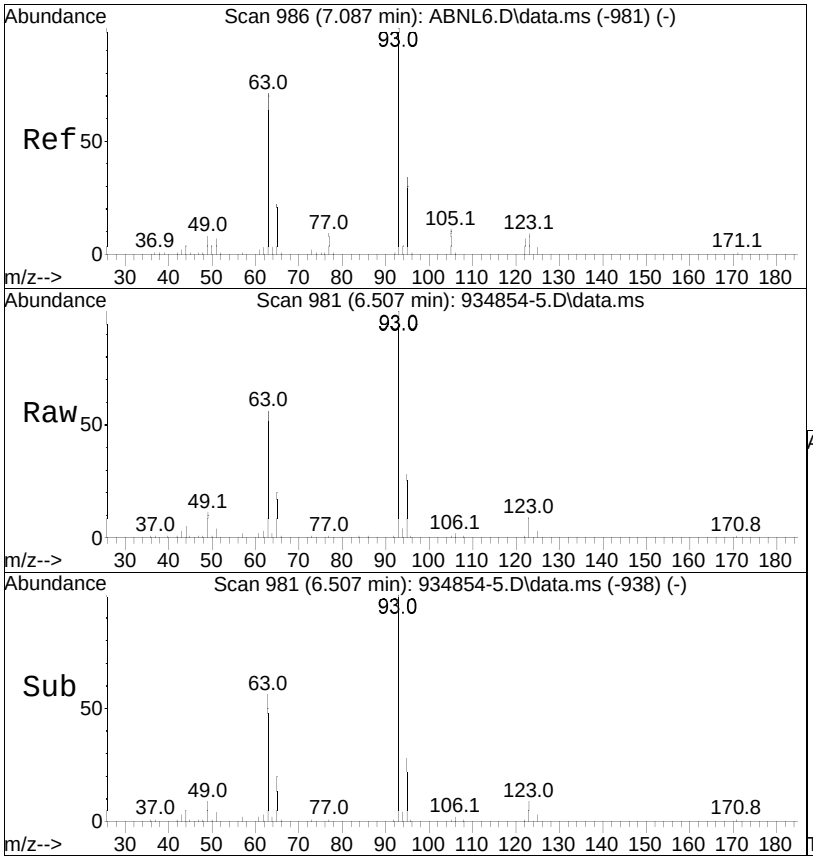


#23
2,4-Dimethylphenol
Concen: 0.74 ug/ml
RT: 6.419 min Scan# 966
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:107 Resp: 11697

Ion	Ratio	Lower	Upper
107	100		
121	52.9	40.0	60.0
122	83.4	70.2	105.4

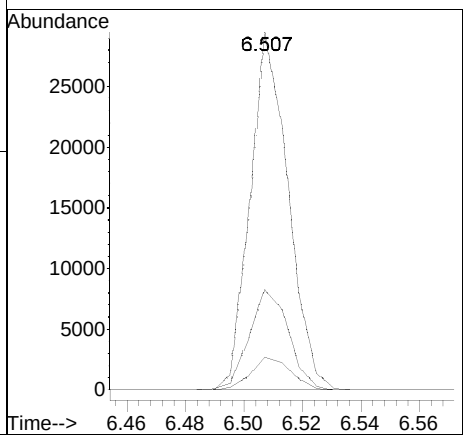


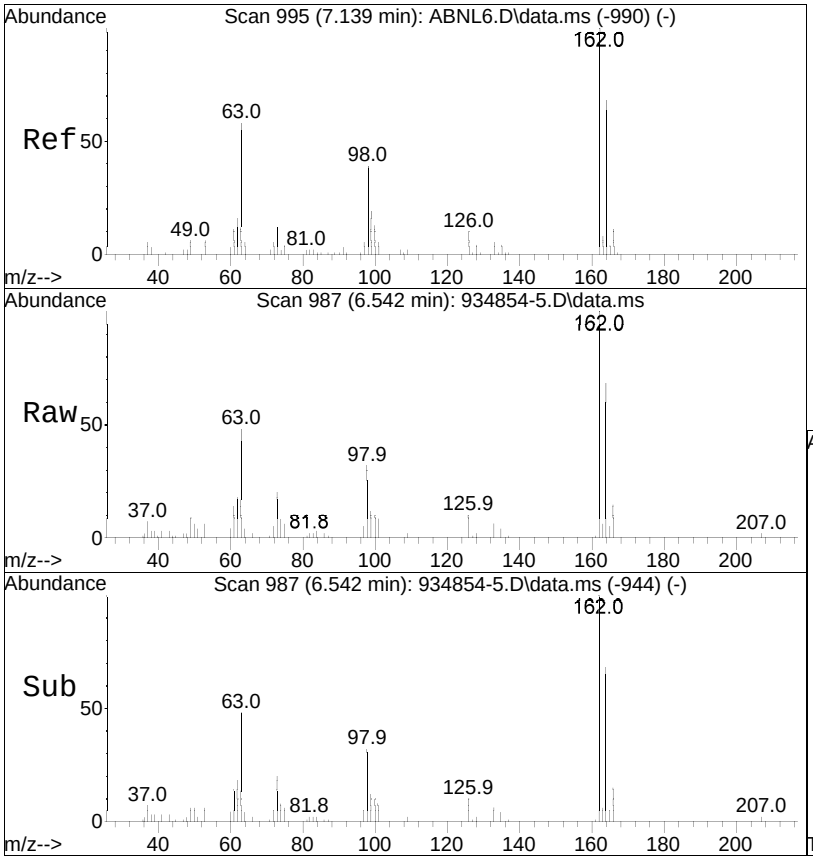


#24
Bis(2-chloroethoxy)methane
Concen: 1.26 ug/ml
RT: 6.507 min Scan# 981
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 93 Resp: 26307

Ion	Ratio	Lower	Upper
93	100		
95	29.3	25.8	38.8
123	9.8	10.1	15.1#

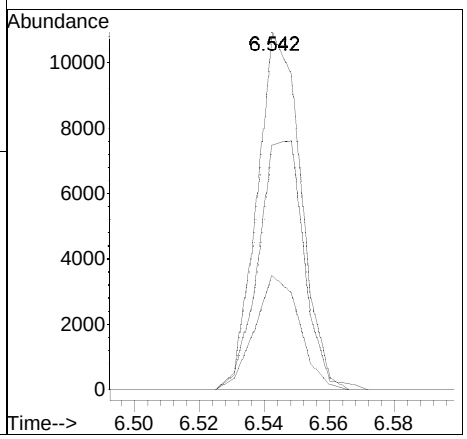


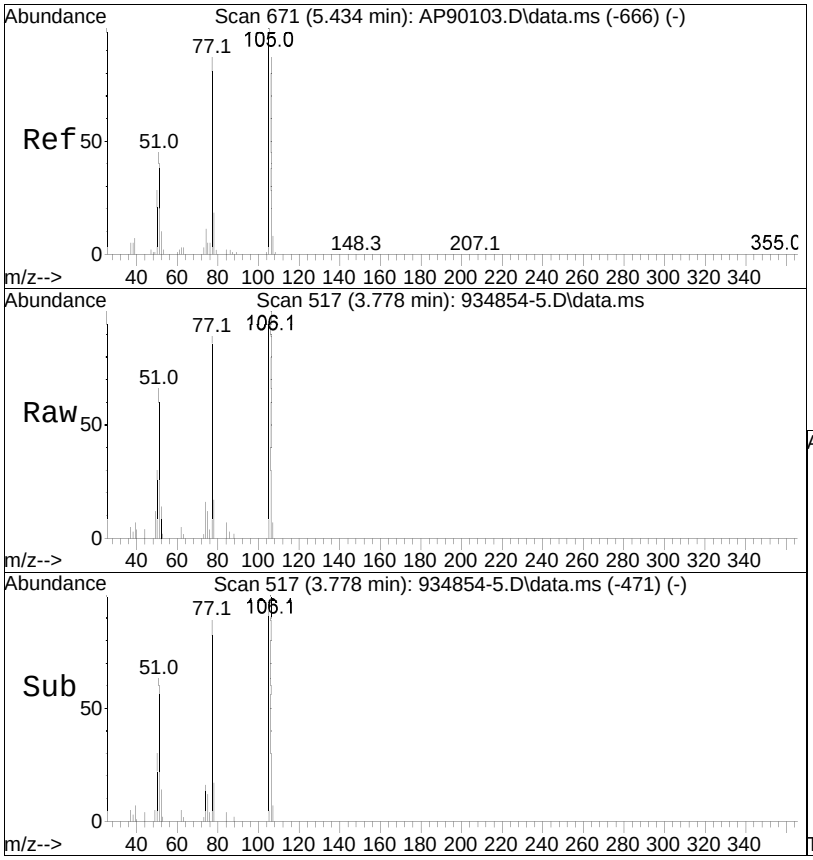


#25
2,4-Dichlorophenol
Concen: 0.71 ug/ml
RT: 6.542 min Scan# 987
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:162 Resp: 10104

Ion	Ratio	Lower	Upper
162	100		
164	73.1	51.0	76.4
98	33.0	32.2	48.2

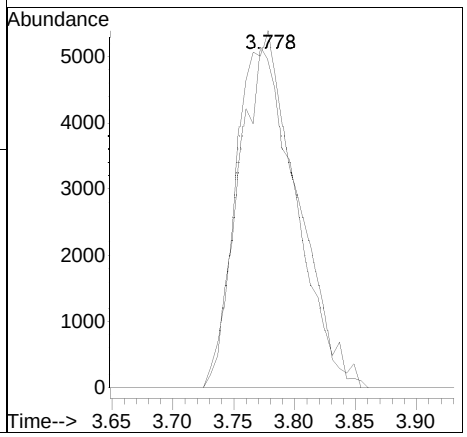


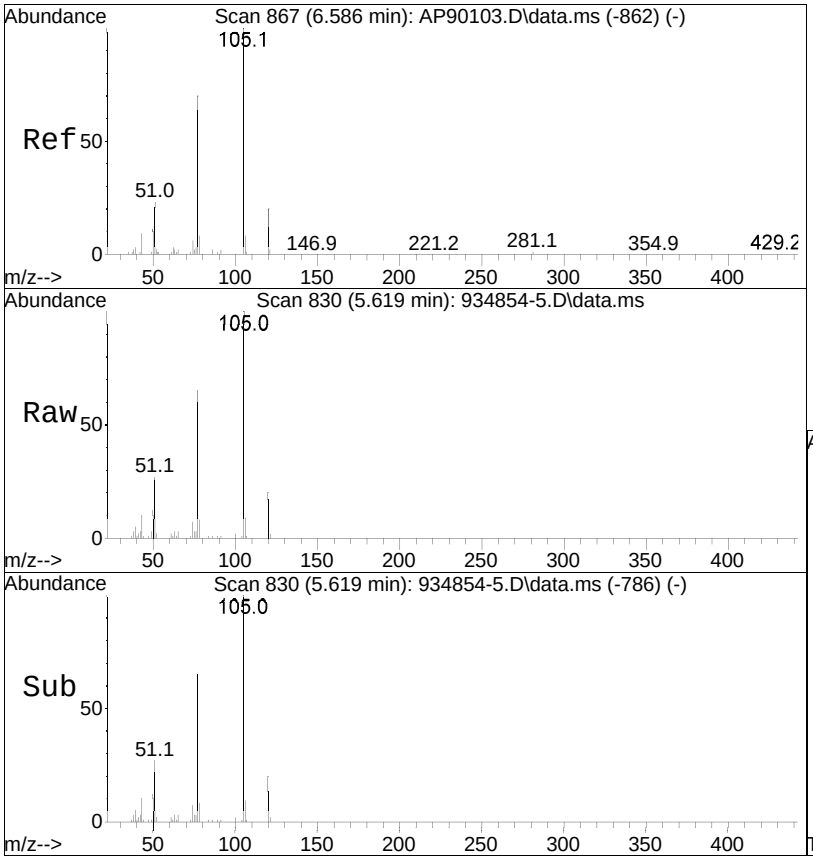


#28
Benzaldehyde
Concen: 1.35 ug/ml
RT: 3.778 min Scan# 517
Delta R.T. 0.018 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:105 Resp: 18429

Ion	Ratio	Lower	Upper
105	100		
77	91.7	82.2	123.4

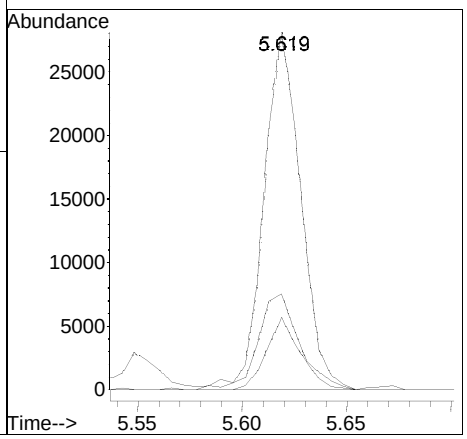


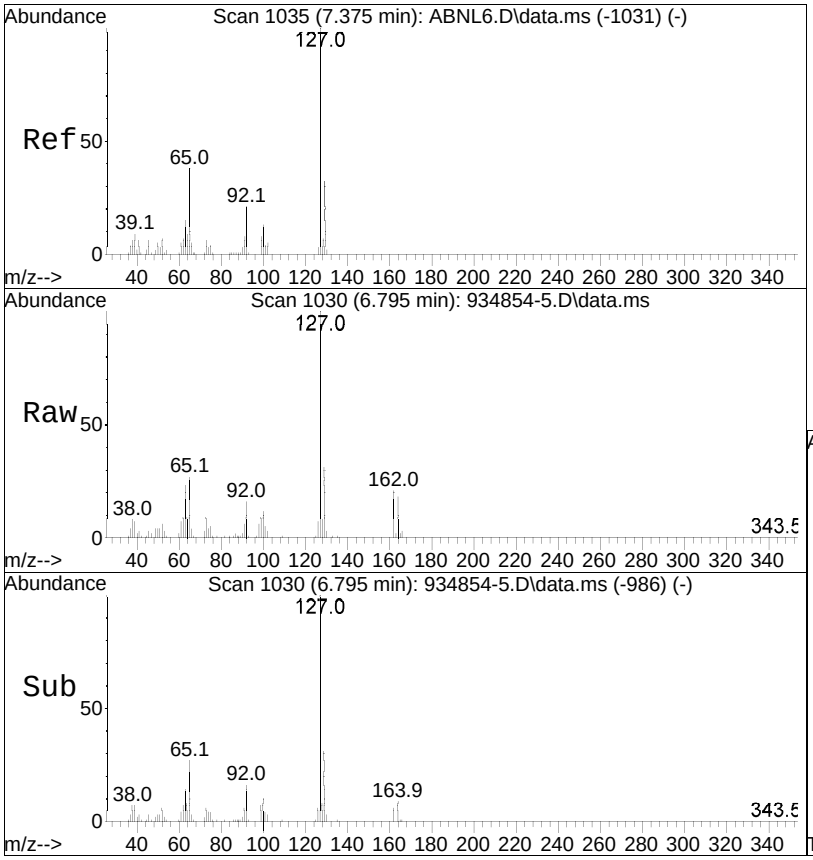


#29
Acetophenone
Concen: 1.38 ug/ml
RT: 5.619 min Scan# 830
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:105 Resp: 34046

Ion	Ratio	Lower	Upper
105	100		
120	18.7	20.5	30.7#
51	30.9	34.9	52.3#

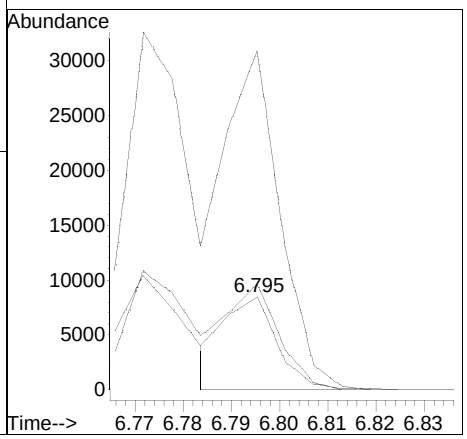


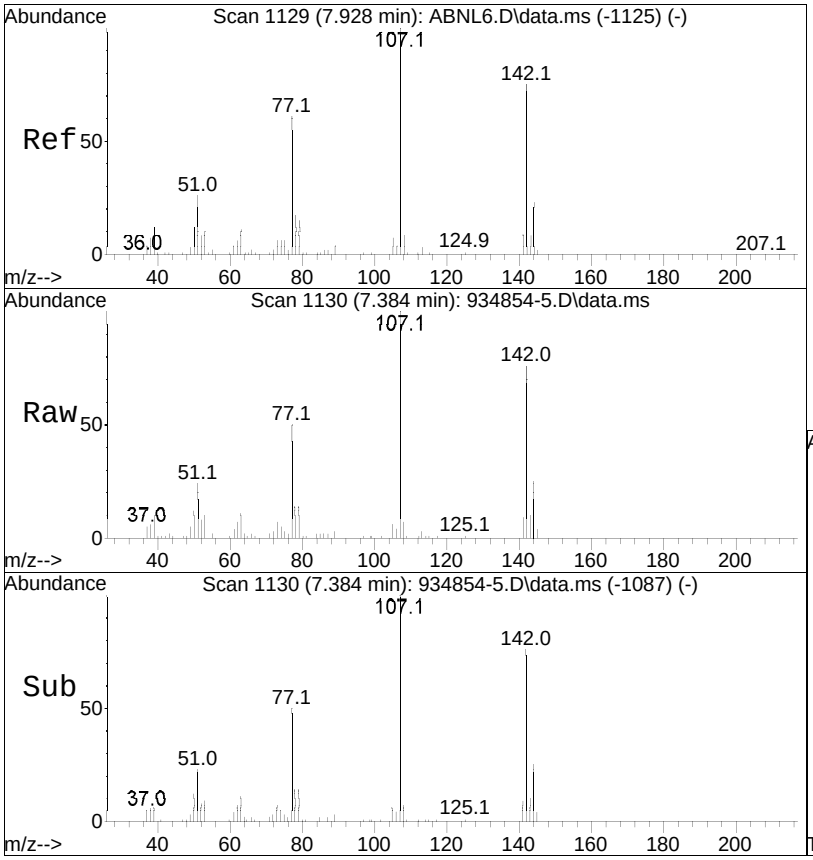


#37
4-Chloroaniline
Concen: 0.91 ug/ml M3
RT: 6.795 min Scan# 1030
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 65 Resp: 6532

Ion	Ratio	Lower	Upper
65	100		
127	464.7	237.6	356.4#
129	154.0	76.3	114.5#

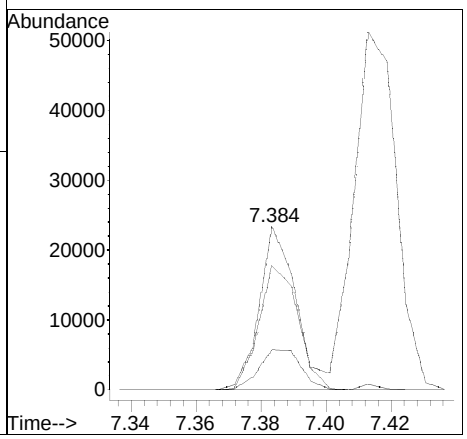


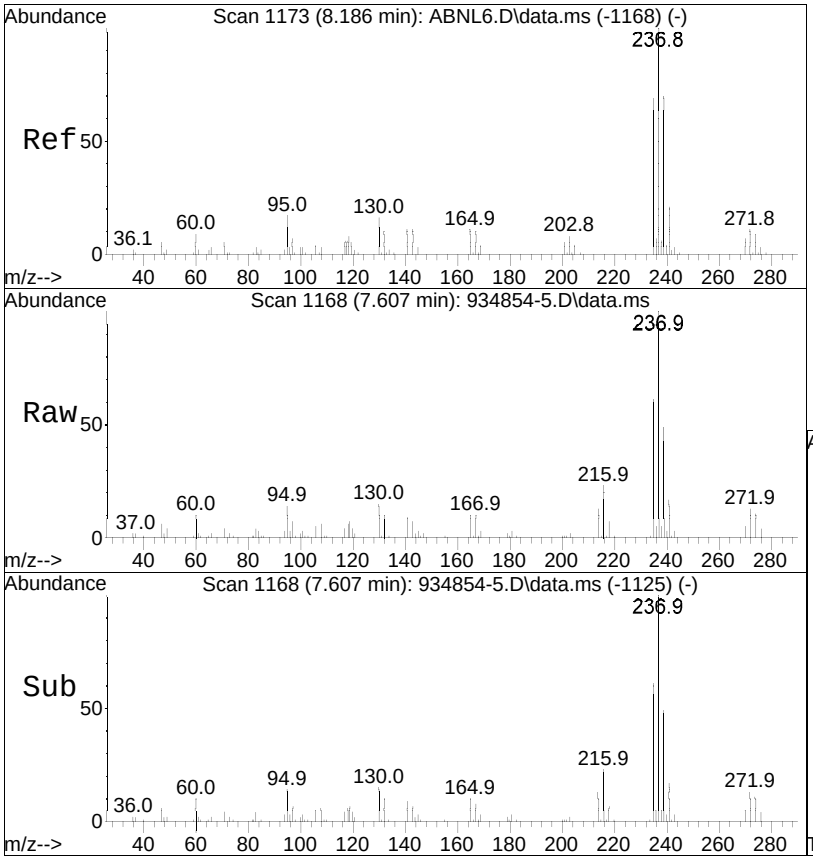


#39
p-Chloro-m-cresol
Concen: 1.21 ug/ml
RT: 7.384 min Scan# 1130
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:107 Resp: 17795

Ion	Ratio	Lower	Upper
107	100		
144	29.1	20.9	31.3
142	87.7	66.1	99.1

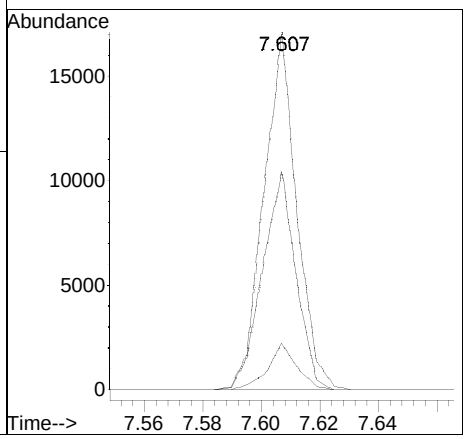


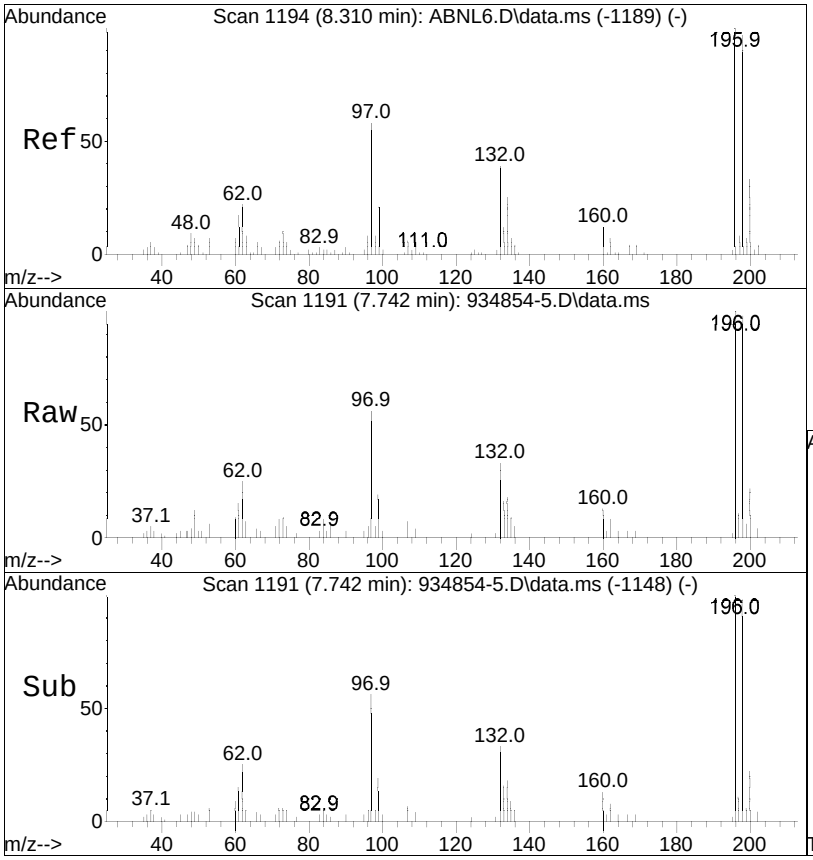


#42
Hexachlorocyclopentadiene
Concen: 1.07 ug/ml
RT: 7.607 min Scan# 1168
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:237 Resp: 13228

Ion	Ratio	Lower	Upper
237	100		
235	62.1	49.7	74.5
272	11.7	9.8	14.6

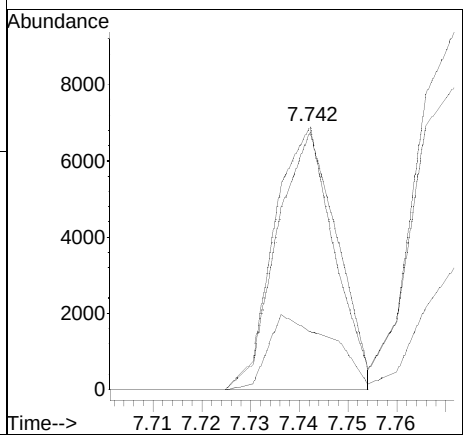


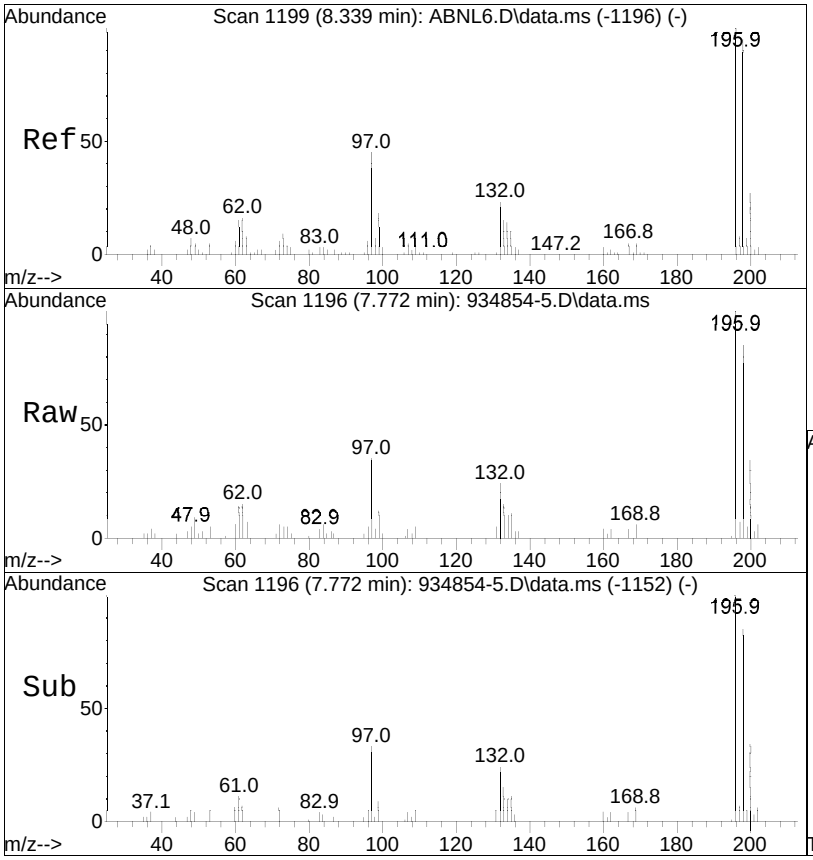


#43
2,4,6-Trichlorophenol
Concen: 0.49 ug/ml
RT: 7.742 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:196 Resp: 5874

Ion	Ratio	Lower	Upper
196	100		
198	99.5	77.5	116.3
200	30.6	23.8	35.6

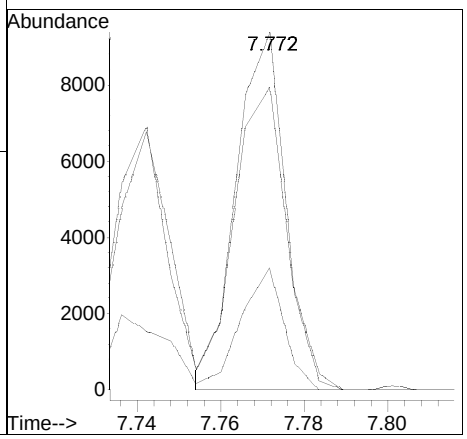


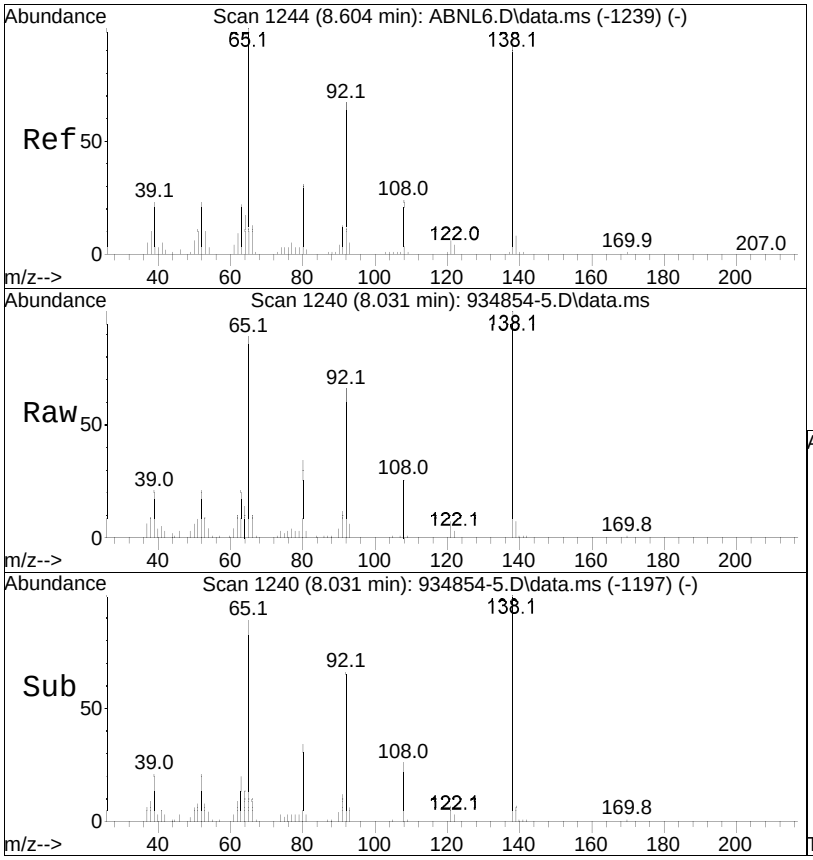


#44
2,4,5-Trichlorophenol
Concen: 0.59 ug/ml
RT: 7.772 min Scan# 1196
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:196 Resp: 7720

Ion	Ratio	Lower	Upper
196	100		
200	29.6	25.4	38.0
198	88.5	78.0	117.0

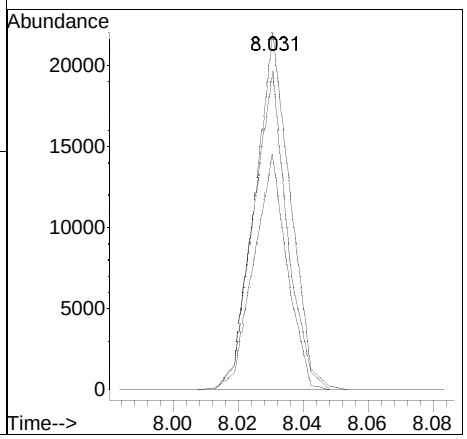


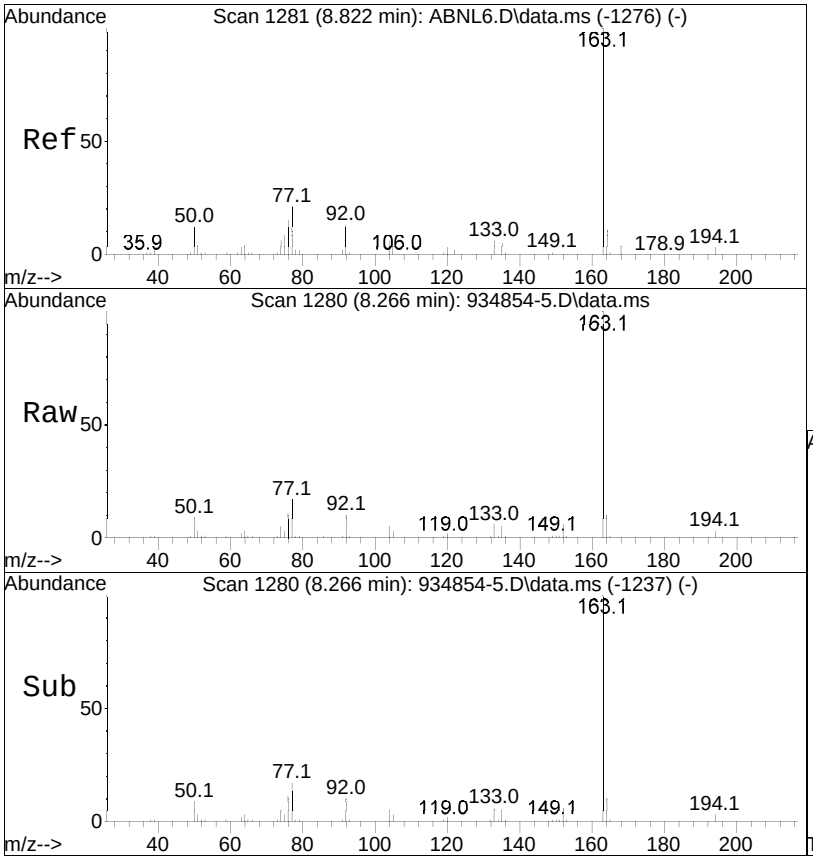


#47
2-Nitroaniline
Concen: 1.70 ug/ml
RT: 8.031 min Scan# 1240
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:138 Resp: 16497

Ion	Ratio	Lower	Upper
138	100		
92	62.5	53.5	80.3
65	85.6	86.3	129.5#

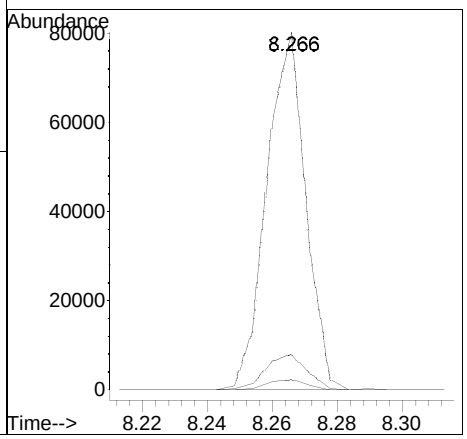


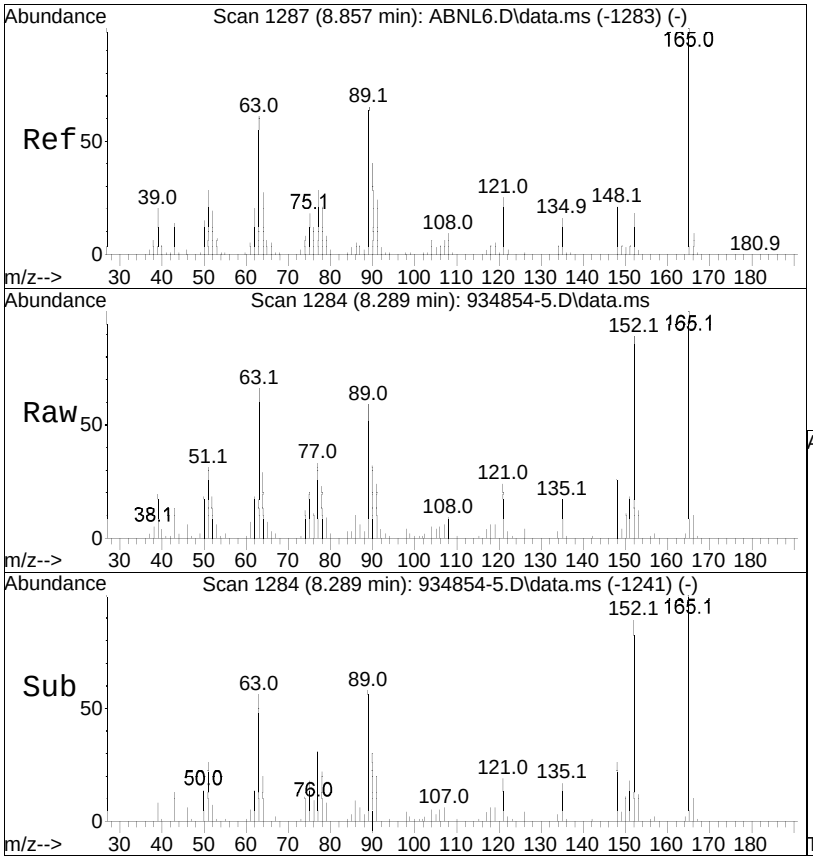


#50
Dimethyl phthalate
Concen: 1.49 ug/ml
RT: 8.266 min Scan# 1280
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:163 Resp: 65947

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	11.0	7.9	11.9

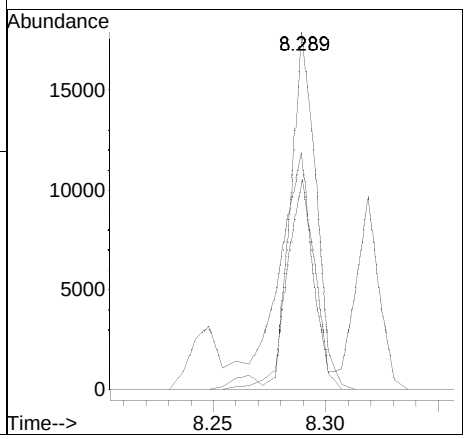


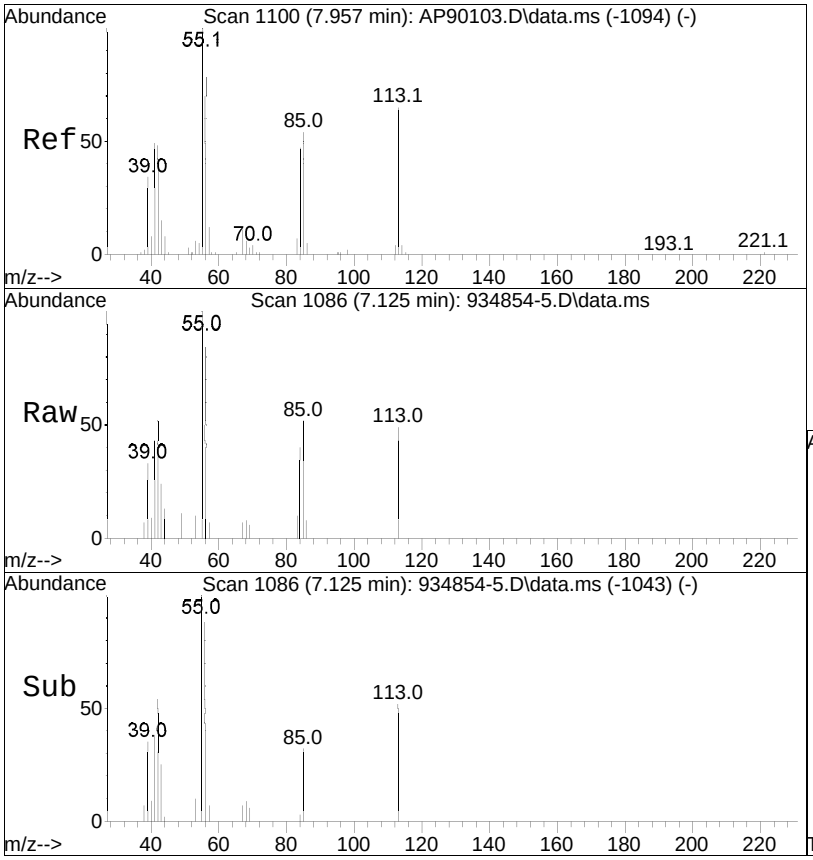


#52
2,6-Dinitrotoluene
Concen: 1.63 ug/ml
RT: 8.289 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:165 Resp: 14533

Ion	Ratio	Lower	Upper
165	100		
89	63.1	54.2	81.2
63	81.4	64.2	96.2

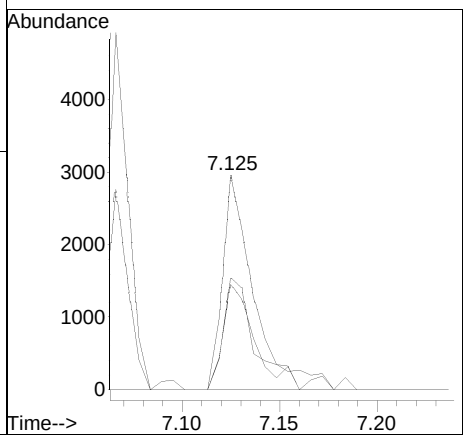


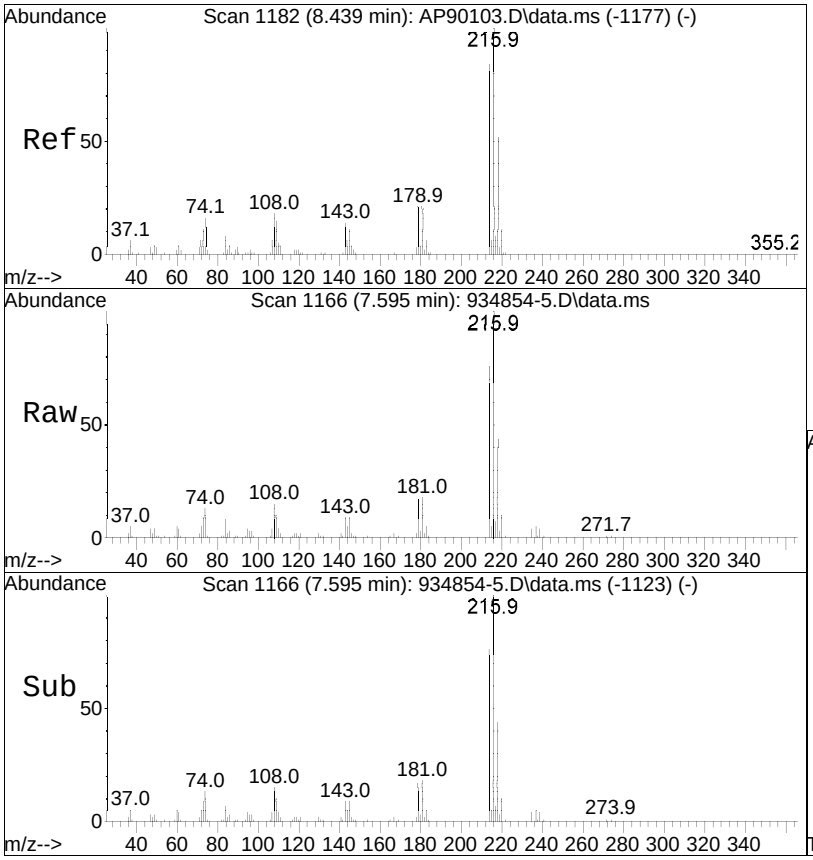


#59
Caprolactam
Concen: 0.42 ug/ml
RT: 7.125 min Scan# 1086
Delta R.T. -0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 55 Resp: 3367

Ion	Ratio	Lower	Upper
55	100		
85	51.6	19.8	29.6#
113	51.9	29.6	44.4#

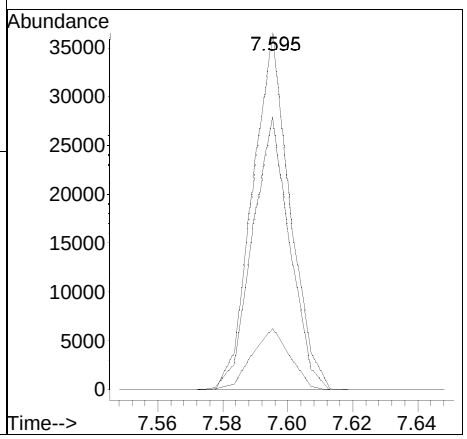


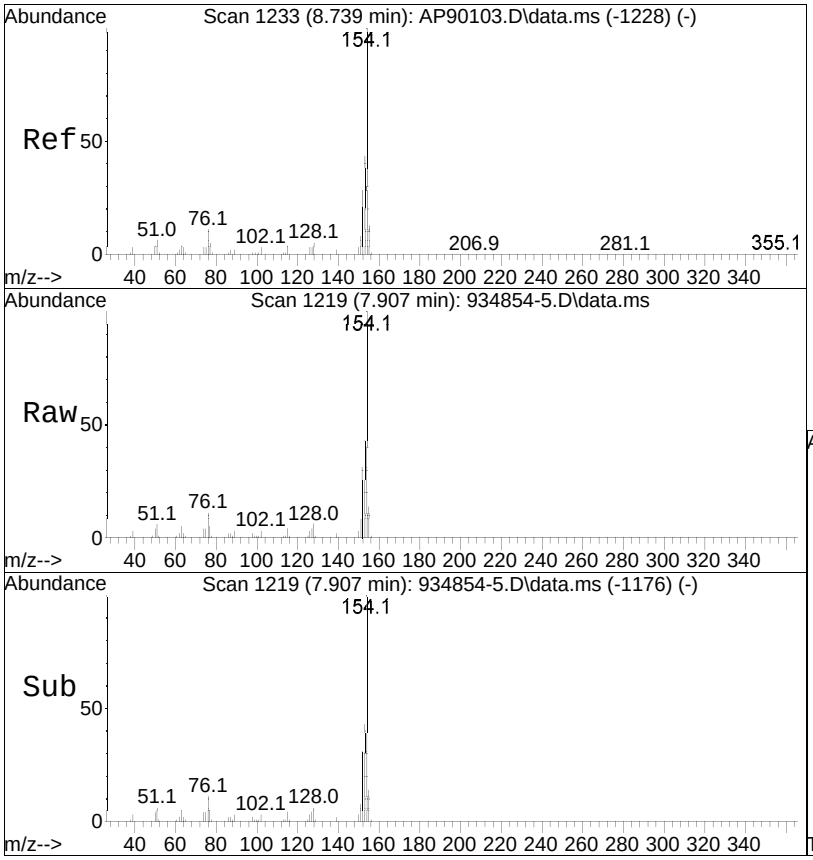


#60
1,2,4,5-Tetrachlorobenzene
Concen: 1.40 ug/ml
RT: 7.595 min Scan# 1166
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:216 Resp: 29140

Ion	Ratio	Lower	Upper
216	100		
214	76.4	63.7	95.5
179	17.6	19.0	28.6#

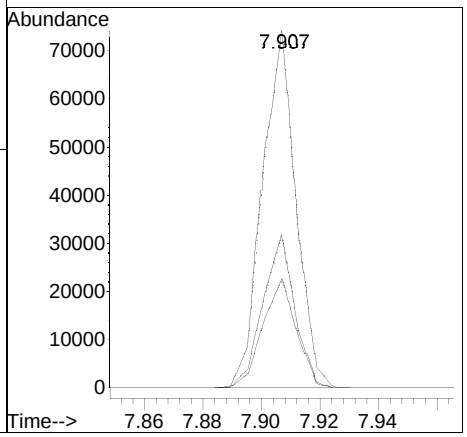


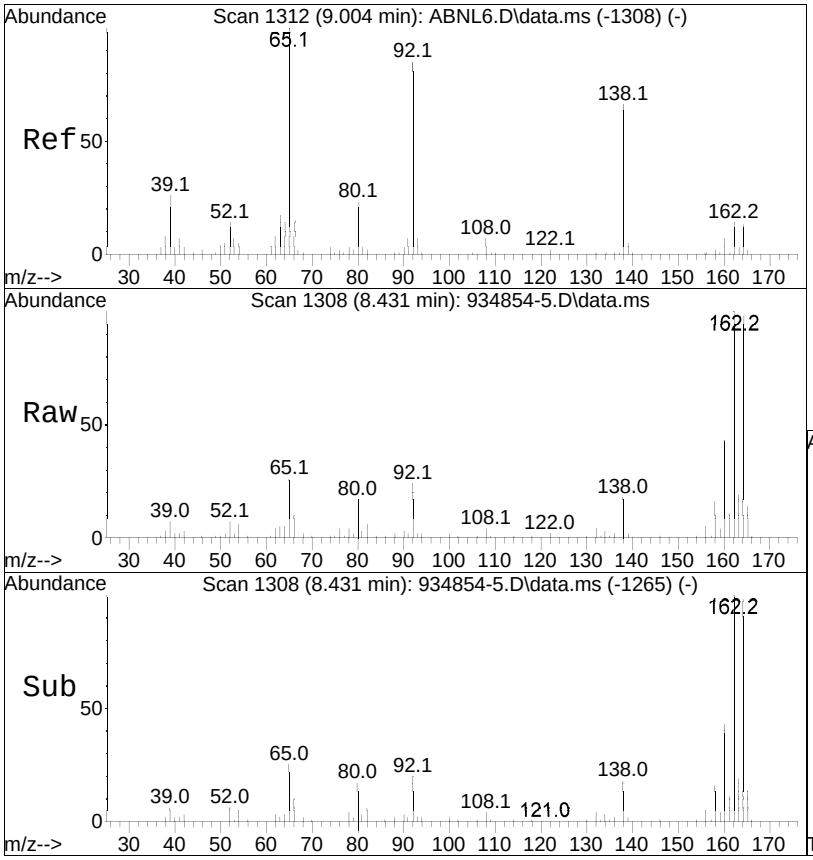


#61
Biphenyl
Concen: 1.44 ug/ml
RT: 7.907 min Scan# 1219
Delta R.T. -0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:154 Resp: 58639

Ion	Ratio	Lower	Upper
154	100		
153	40.9	32.3	48.5
152	30.9	22.5	33.7

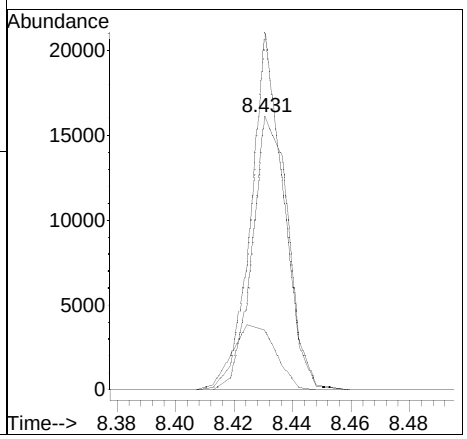


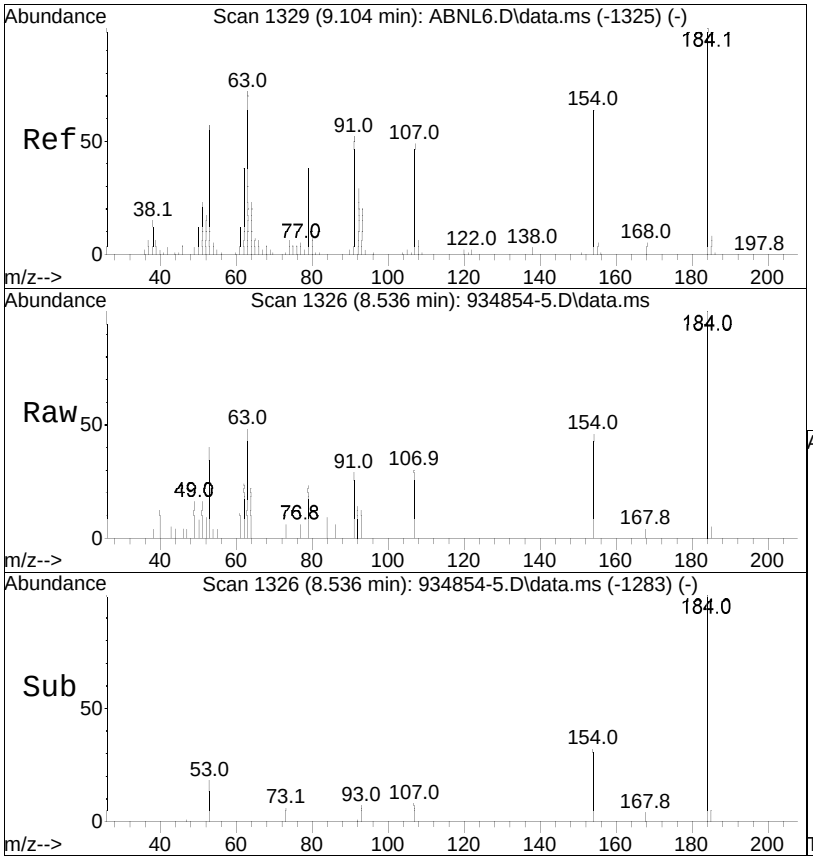


#63
3-Nitroaniline
Concen: 1.63 ug/ml
RT: 8.431 min Scan# 1308
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:138 Resp: 13766

Ion	Ratio	Lower	Upper
138	100		
92	115.5	93.4	140.2
108	28.9	9.5	14.3#

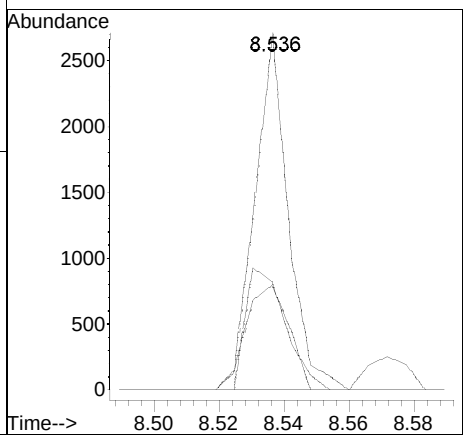


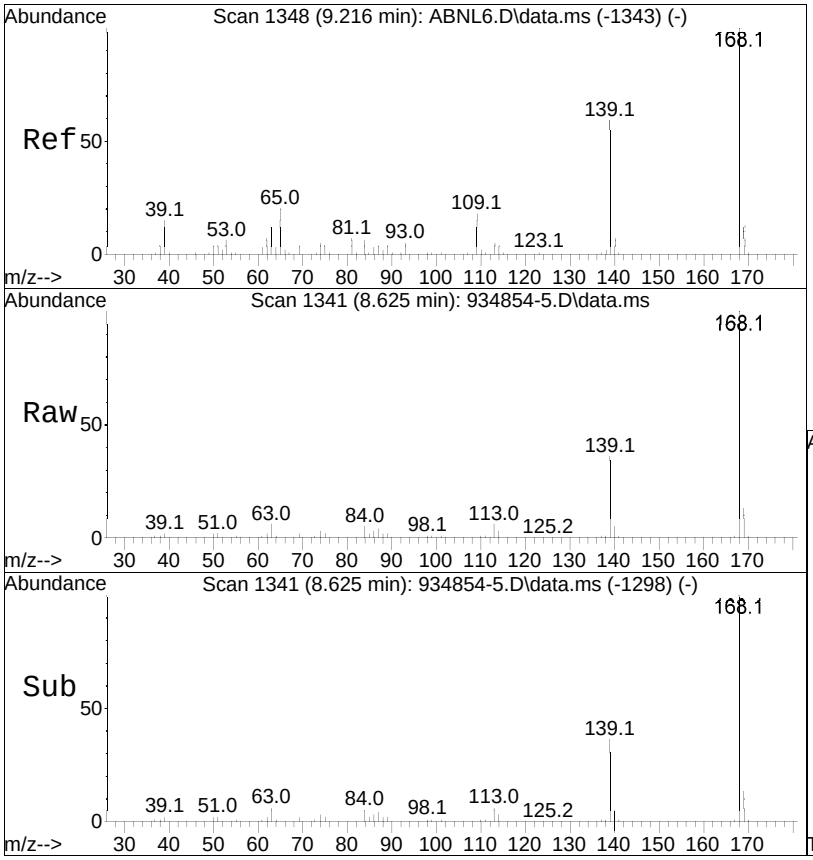


#65
2,4-Dinitrophenol
Concen: 0.67 ug/ml
RT: 8.536 min Scan# 1326
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:184 Resp: 1919

Ion	Ratio	Lower	Upper
184	100		
107	40.6	37.7	56.5
91	37.8	46.3	69.5#

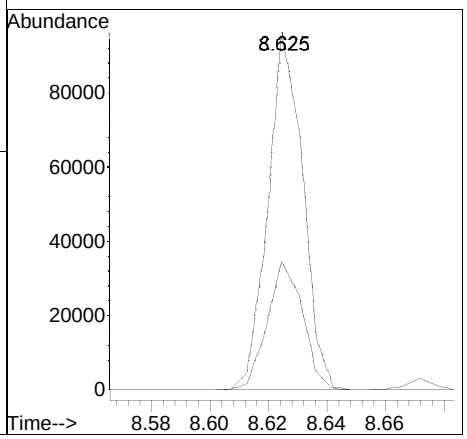


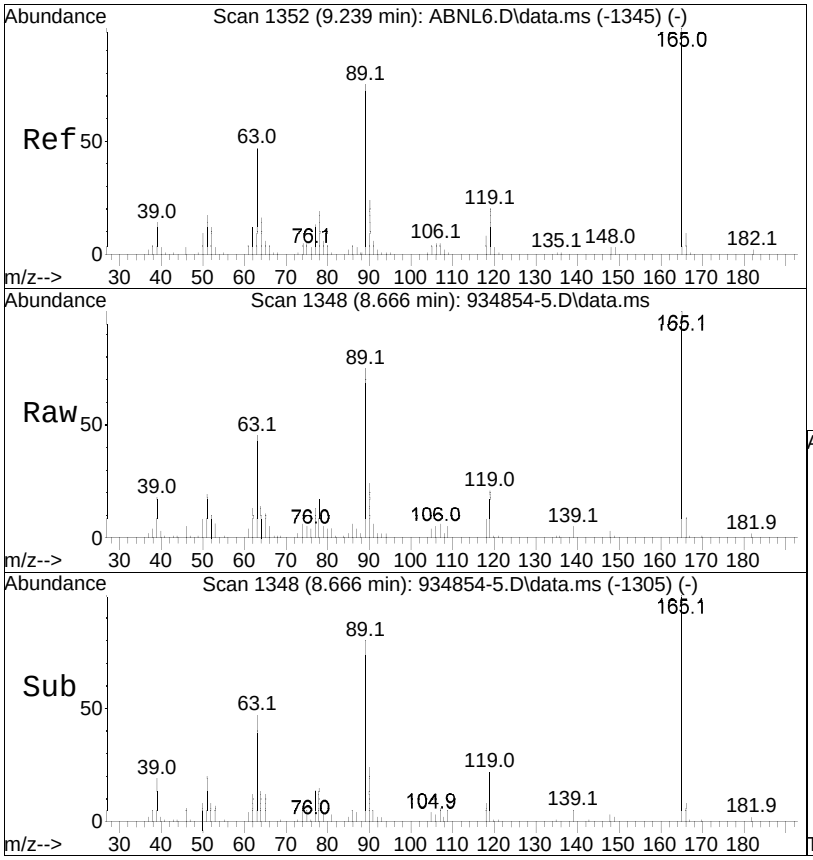


#66
Dibenzofuran
Concen: 1.57 ug/ml
RT: 8.625 min Scan# 1341
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:168 Resp: 78317

Ion	Ratio	Lower	Upper
168	100		
139	36.8	31.4	47.2

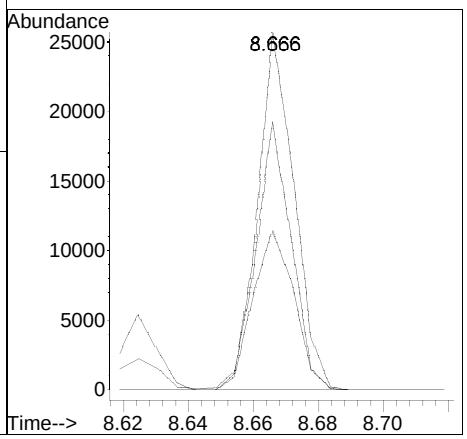


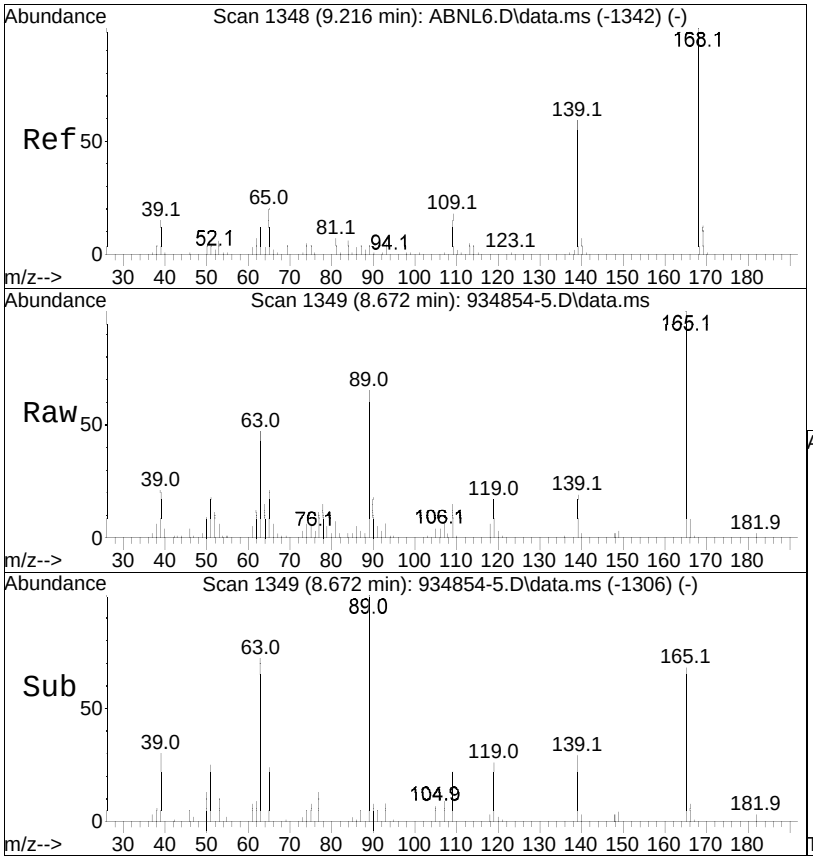


#67
2,4-Dinitrotoluene
Concen: 1.73 ug/ml
RT: 8.666 min Scan# 1348
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:165 Resp: 19879

Ion	Ratio	Lower	Upper
165	100		
89	73.2	72.0	108.0
63	50.6	52.7	79.1#

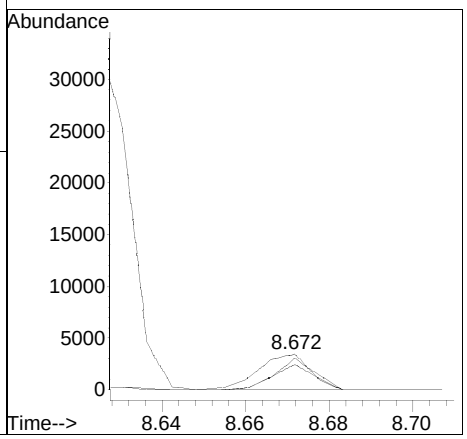


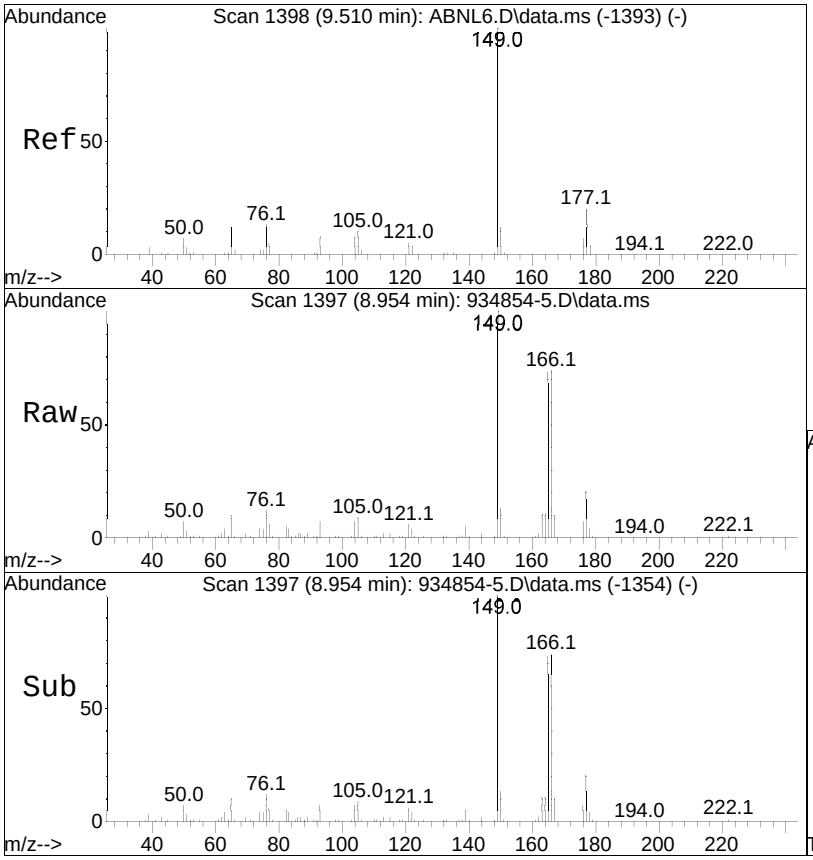


#68
4-Nitrophenol
Concen: 0.33 ug/ml
RT: 8.672 min Scan# 1349
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion: 65 Resp: 3000

Ion	Ratio	Lower	Upper
65	100		
109	58.3	47.4	71.2
139	68.2	76.6	115.0#

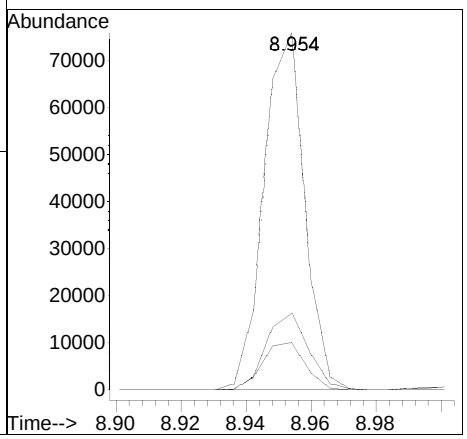


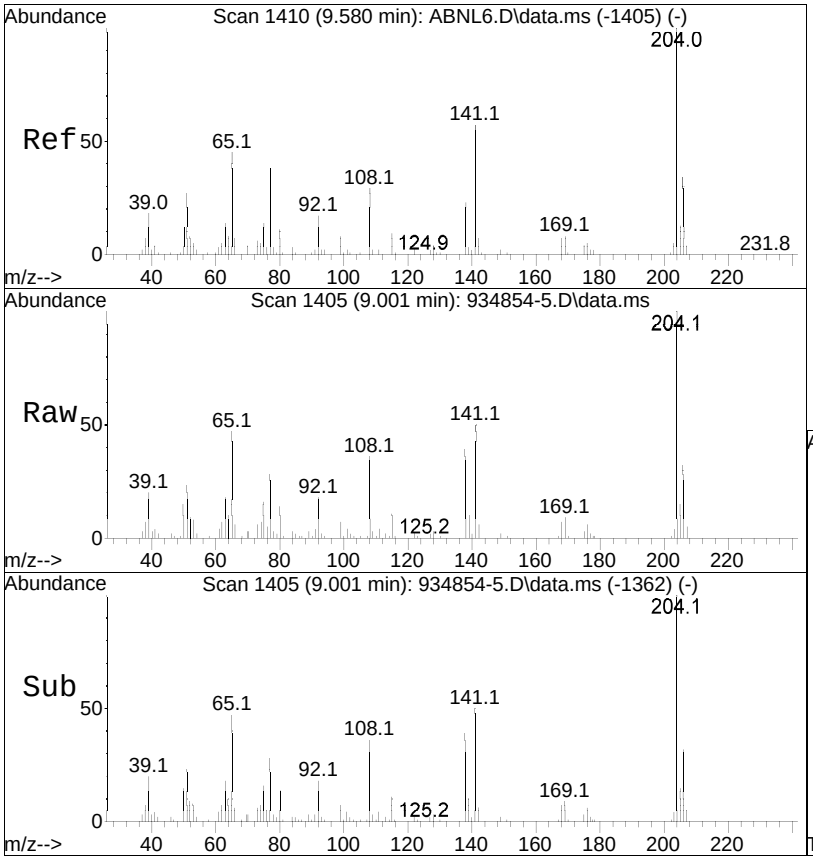


#71
Diethyl phthalate
Concen: 1.59 ug/ml
RT: 8.954 min Scan# 1397
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:149 Resp: 65903

Ion	Ratio	Lower	Upper
149	100		
177	22.5	16.1	24.1
150	14.0	9.4	14.2

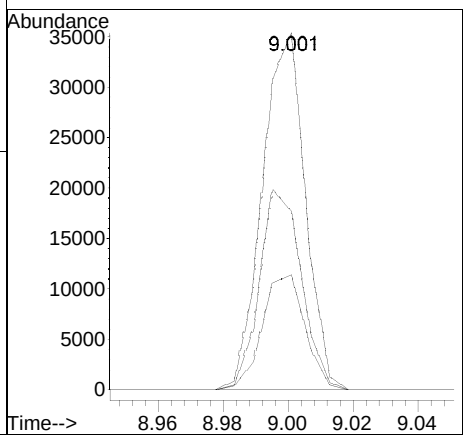


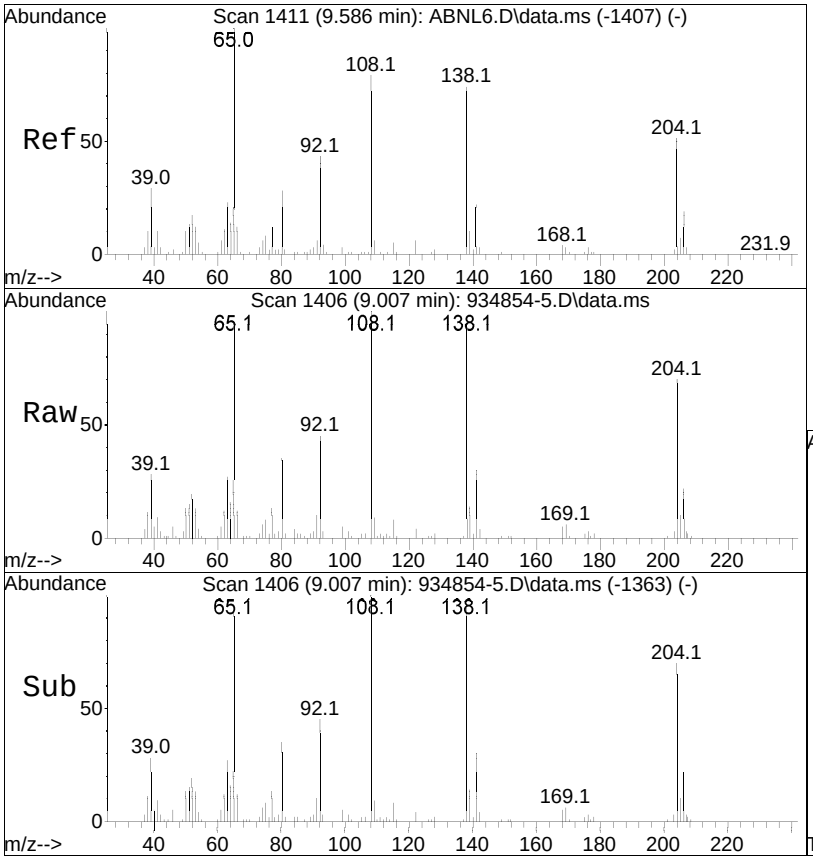


#73
4-Chlorophenyl phenyl ether
Concen: 1.56 ug/ml
RT: 9.001 min Scan# 1405
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:204 Resp: 32239

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	55.0	53.6	80.4

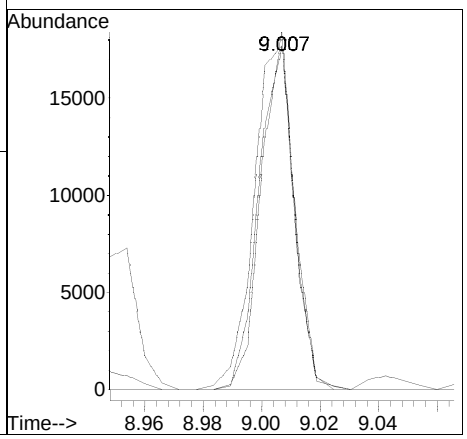


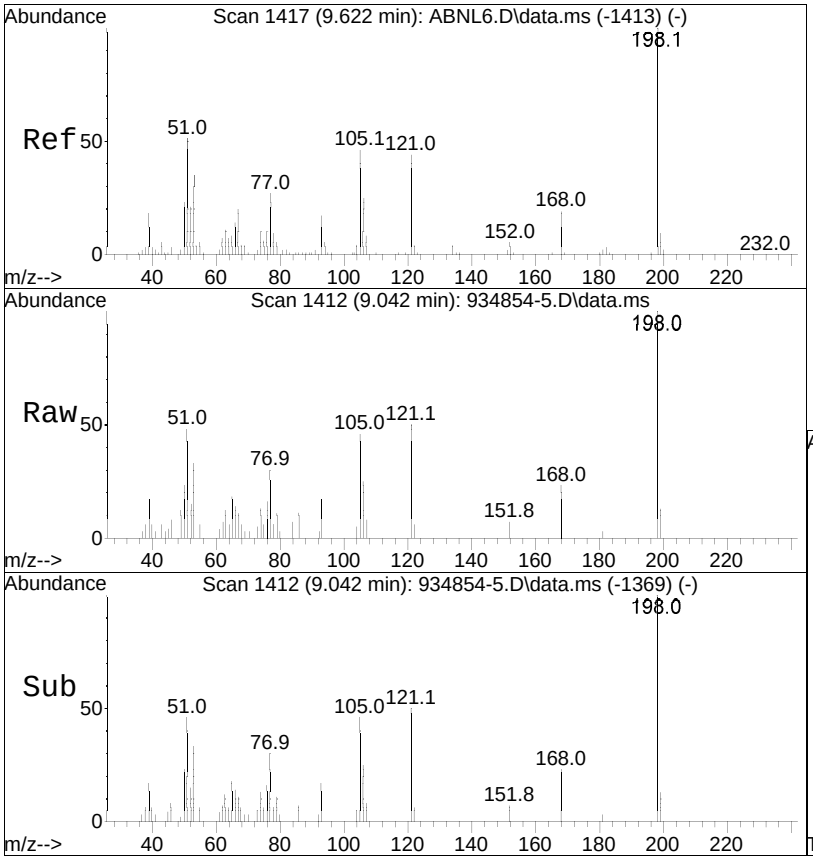


#74
4-Nitroaniline
Concen: 1.83 ug/ml
RT: 9.007 min Scan# 1406
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:138 Resp: 15082

Ion	Ratio	Lower	Upper
138	100		
108	94.4	52.1	78.1#
65	110.9	115.0	172.6#

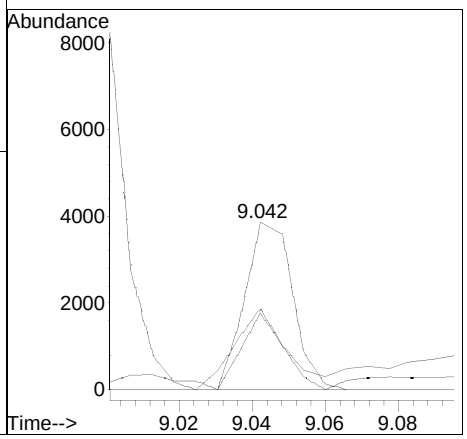


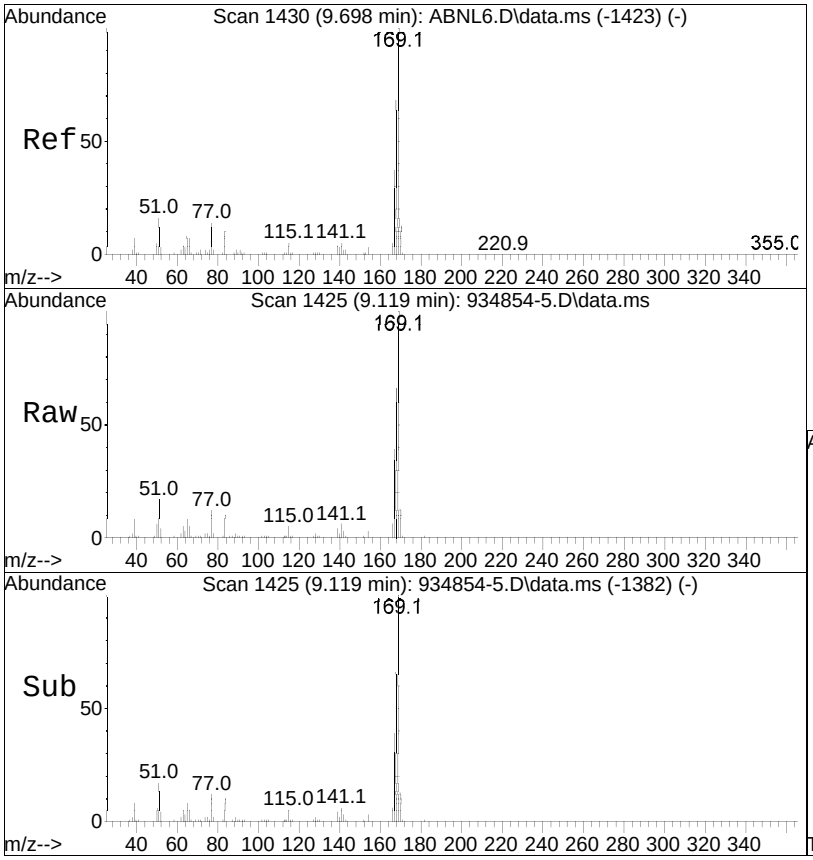


#75
4,6-Dinitro-o-cresol
Concen: 0.55 ug/ml
RT: 9.042 min Scan# 1412
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:198 Resp: 3523

Ion	Ratio	Lower	Upper
198	100		
51	53.1	76.0	114.0#
105	39.8	45.6	68.4#

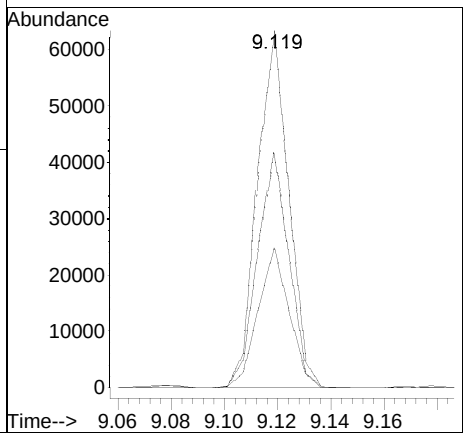


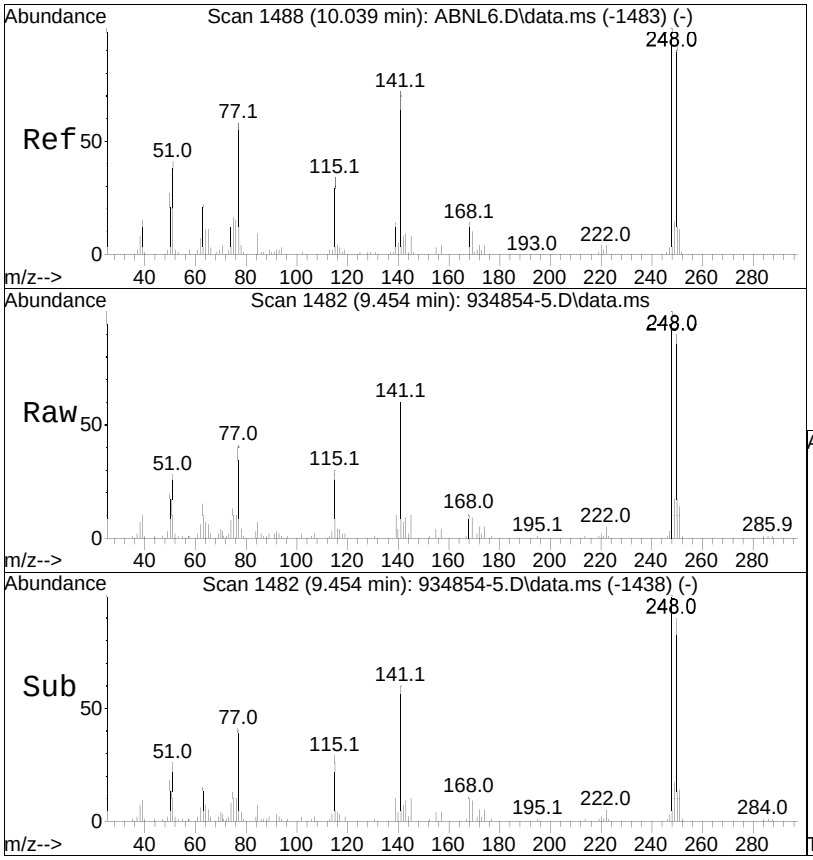


#76
NDPA/DPA
Concen: 1.60 ug/ml
RT: 9.119 min Scan# 1425
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:169 Resp: 51688

Ion	Ratio	Lower	Upper
169	100		
168	66.4	54.0	81.0
167	39.3	28.6	42.8

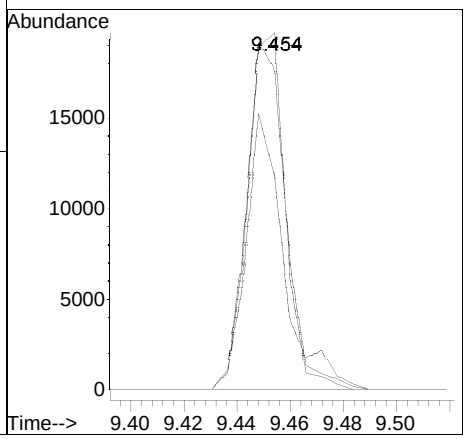


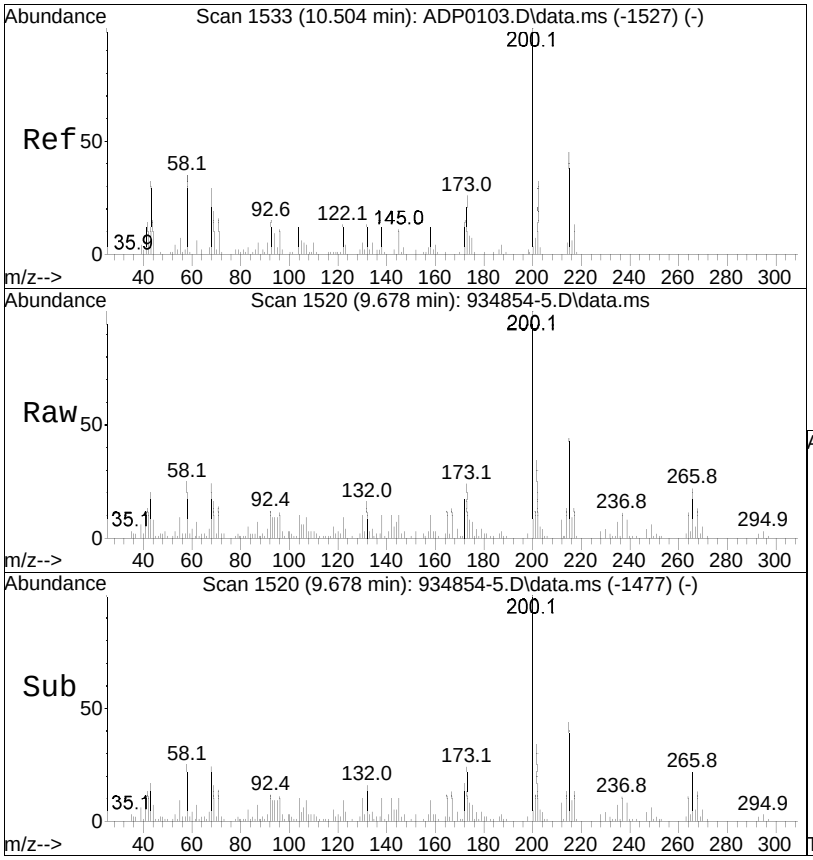


#79
4-Bromophenyl phenyl ether
Concen: 1.56 ug/ml
RT: 9.454 min Scan# 1482
Delta R.T. 0.006 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:248 Resp: 19201

Ion	Ratio	Lower	Upper
248	100		
141	78.4	76.6	114.8
250	101.4	77.3	115.9

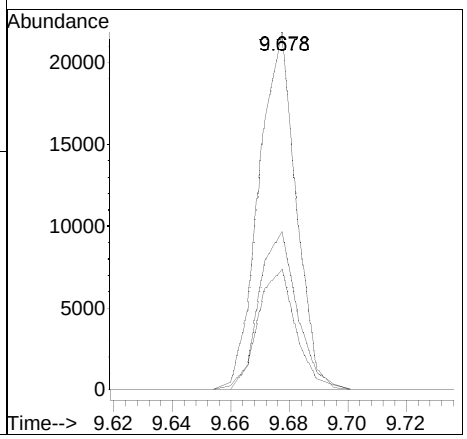


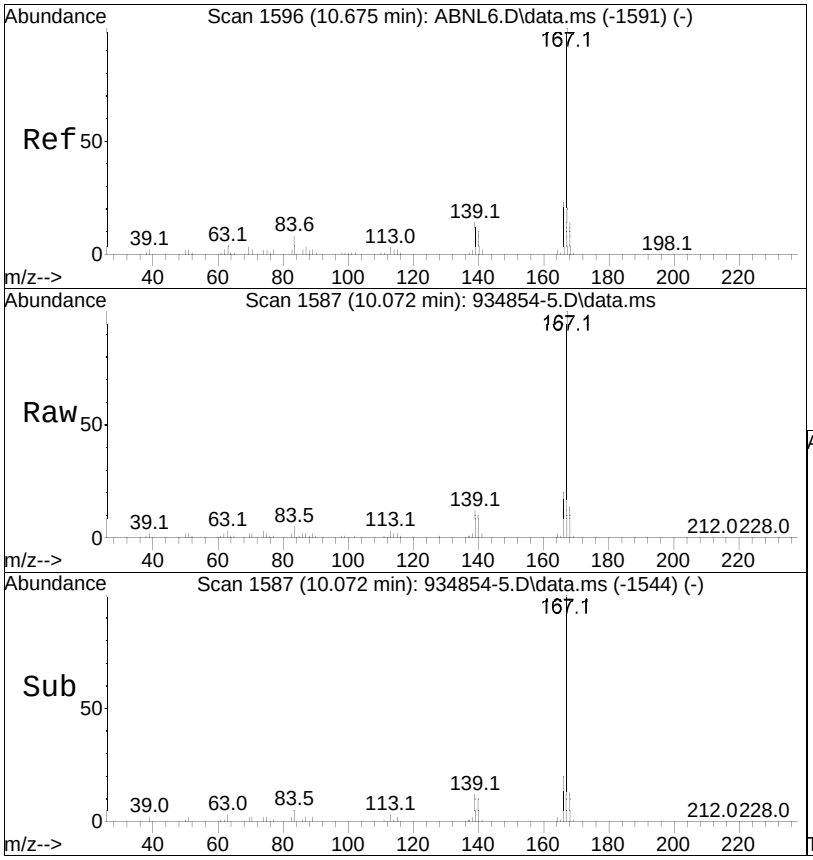


#86
Atrazine
Concen: 1.65 ug/ml
RT: 9.678 min Scan# 1520
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:200 Resp: 19154

Ion	Ratio	Lower	Upper
200	100		
202	34.5	25.8	38.6
215	45.8	40.2	60.4

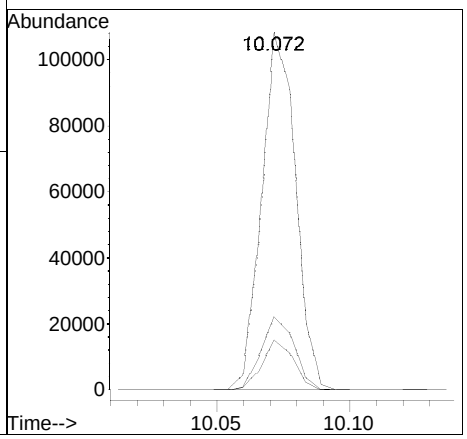


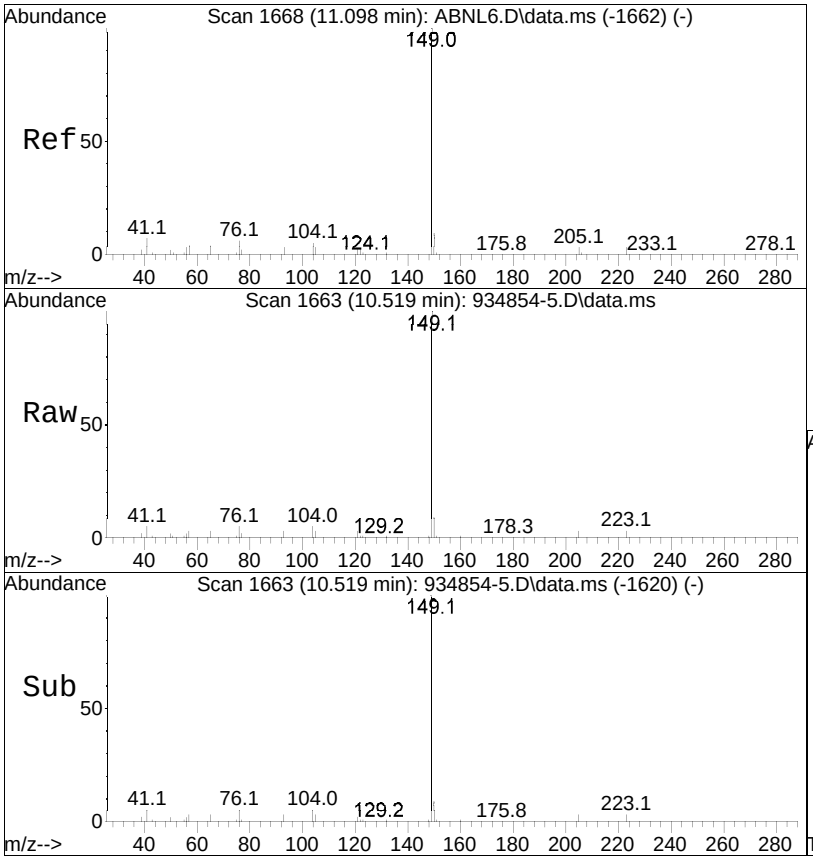


#90
Carbazole
Concen: 1.71 ug/ml
RT: 10.072 min Scan# 1587
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:167 Resp: 94893

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	20.1	17.4	26.0

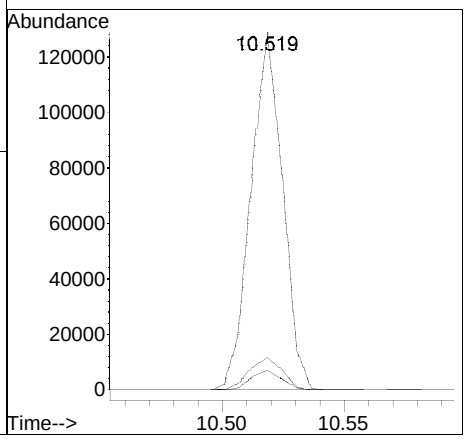


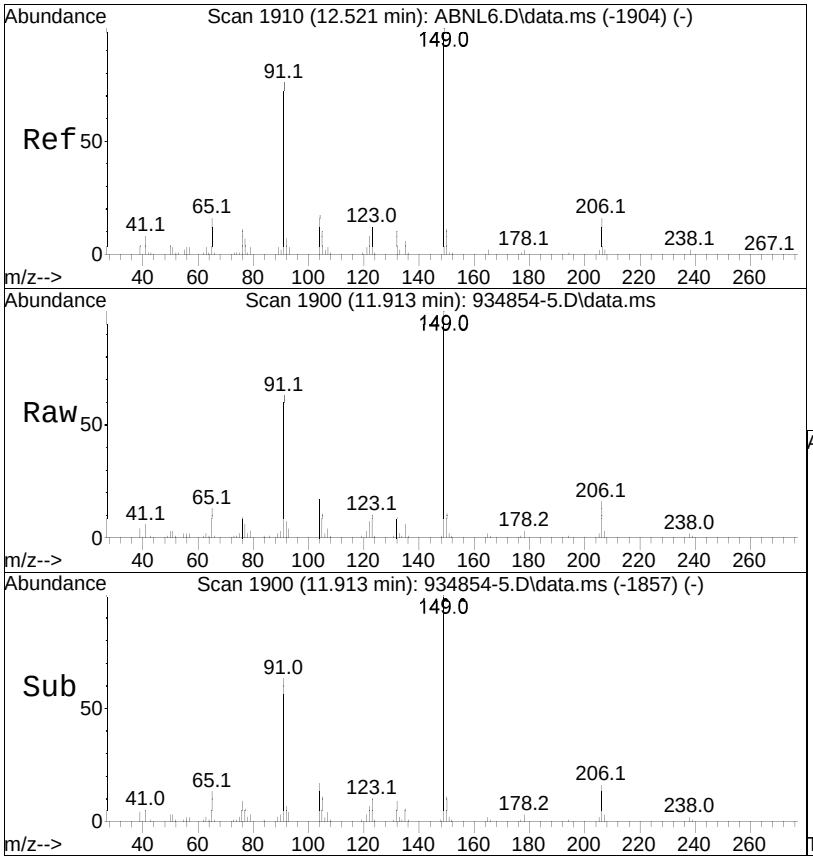


#91
Di-n-butylphthalate
Concen: 1.69 ug/ml
RT: 10.519 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:149 Resp: 114857

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	5.4	4.5	6.7

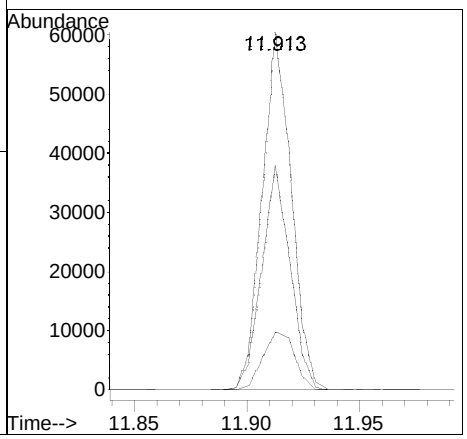


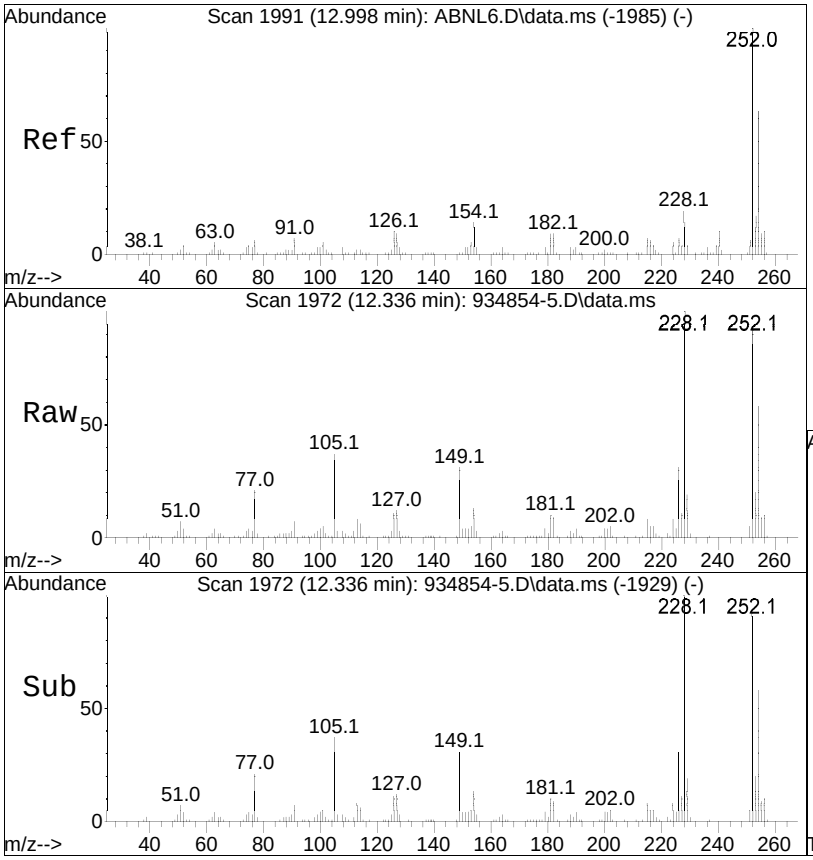


#96
Butyl benzyl phthalate
Concen: 1.87 ug/ml
RT: 11.913 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:149 Resp: 53812

Ion	Ratio	Lower	Upper
149	100		
91	61.3	63.3	94.9#
206	17.8	13.9	20.9

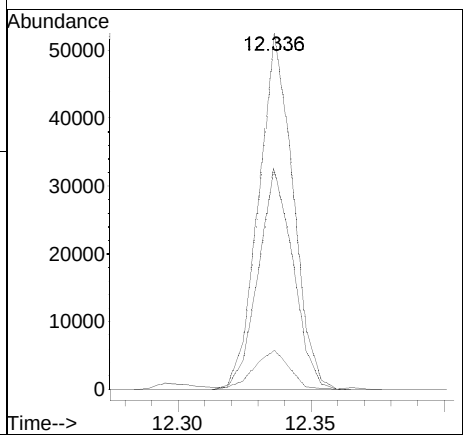


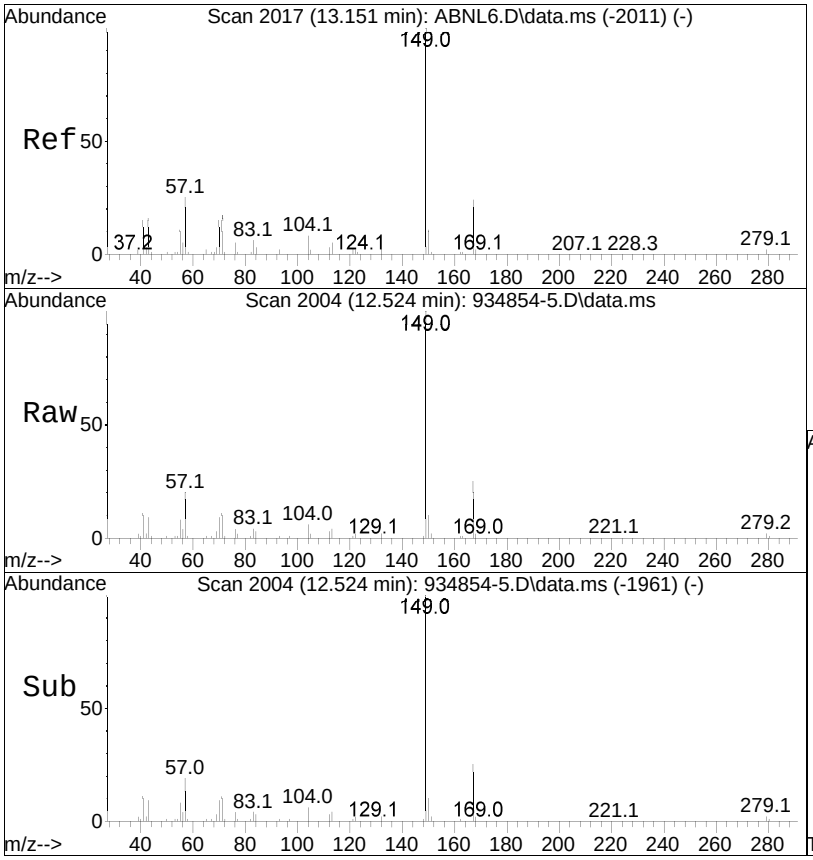


#105
3,3'-Dichlorobenzidine
Concen: 1.85 ug/ml
RT: 12.336 min Scan# 1972
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:252 Resp: 47029

Ion	Ratio	Lower	Upper
252	100		
126	11.5	14.5	21.7#
254	63.4	51.2	76.8

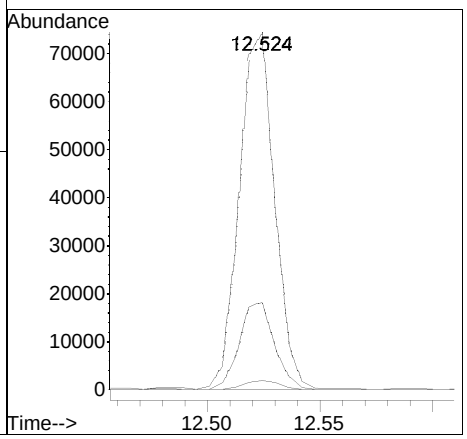


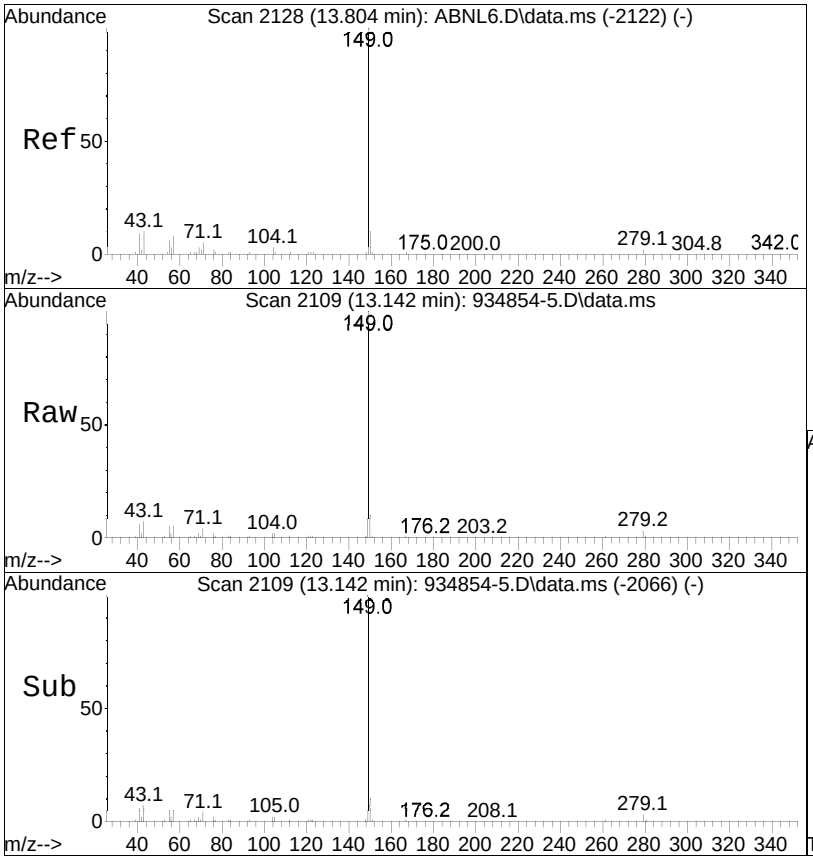


#107
Bis(2-ethylhexyl)phthalate
Concen: 1.83 ug/ml
RT: 12.524 min Scan# 2004
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:149 Resp: 80378

Ion	Ratio	Lower	Upper
149	100		
167	24.3	22.1	33.1
279	2.3	3.0	4.4#

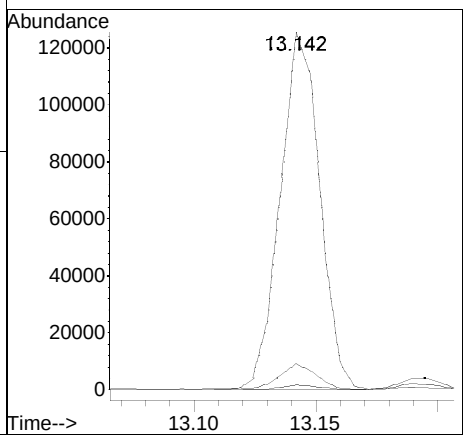




#108
Di-n-octylphthalate
Concen: 1.95 ug/ml
RT: 13.142 min Scan# 2109
Delta R.T. 0.000 min
Lab File: 934854-5.D
Acq: 18 Jun 2024 6:09 pm

Tgt Ion:149 Resp: 140191

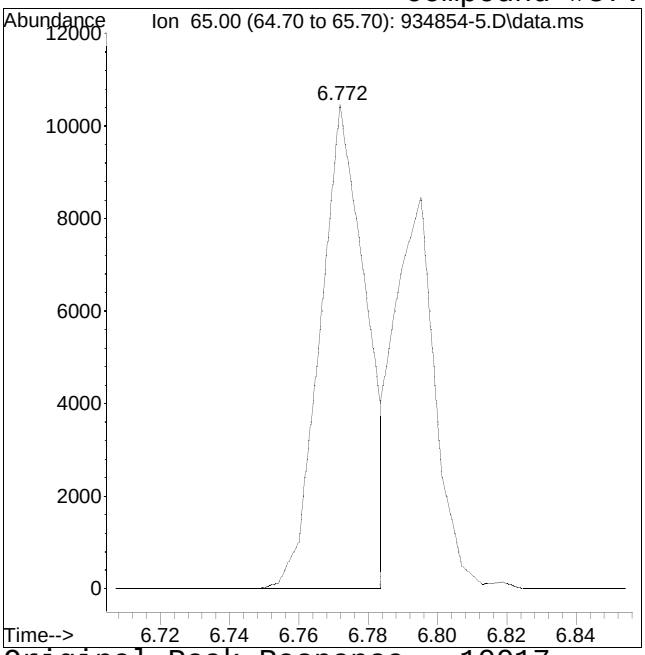
Ion	Ratio	Lower	Upper
149	100		
43	7.1	18.8	28.2#
167	1.5	1.3	1.9

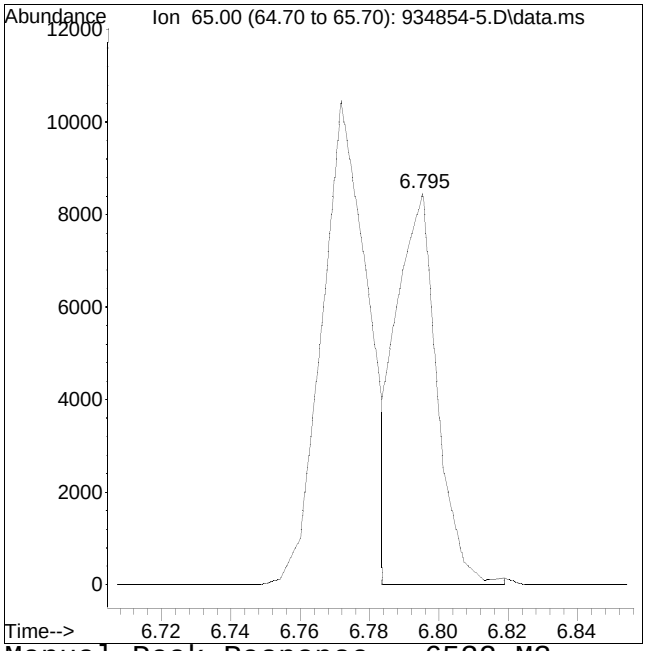


Manual Integration Report

Data Path	: I:\8270\SV106\240618RVT\	QMethod	: FS240418SV106.m
Data File	: 934854-5.D	Operator	: SV106:ek
Date Inj'd	: 6/18/2024 6:09 pm	Instrument	: SV 106
Sample	: WG1934854-5,32,,HNY	Quant Date	: 6/18/2024 6:29 pm

Compound #37: 4-Chloroaniline





Original Peak Response = 10017 Manual Peak Response = 6532 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 01:32 pm

Work Group: WG1934854 for Department: 2 Organic Preparation

Created: 15-JUN-24 Due: Operator: RSN

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432996-05	FH-GW-1	S	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2432996-06	FH-GW-4	S	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-01	MW-8S	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-02	MW-8D	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-03	MW-1SR	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-04	MW-1DR2	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-05	MP-1	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-06	MP-1D	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-09	EB_06122024	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-10	DUP_06122024	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433160-01	TWP-1	S	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433160-02	TWP-2	S	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433652-02	FB-2024-06-14	C	NYTCL-8270-RVT	WATER	DONE	U	0621	0617	3A	Amber-A.1
L2433817-01	GW-17A-061424	C	NYTCL-8270-RVT	WATER	DONE	U	0621	0617	3A	Amber-A.1
WG1934854-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934854-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934854-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934854-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1934854-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1934854-3	WG1934854-2
WG1934854-4	L2433035-03
WG1934854-5	L2433035-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 01:32 pm

Work Group: WG1935741 for Department: 2 Organic Preparation

Created: 18-JUN-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432970-09	FIELD BLANK EAST YOUNG	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-07	PZ-6	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-08	MW-6D	C	NYTCL-8270-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2434125-01	EB-2	C	NYTCL-8270-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
L2434125-02	EB-4	C	NYTCL-8270-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
L2434125-03	EB-1	C	NYTCL-8270-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
WG1935741-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1935741-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1935741-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1935741-3 WG1935741-2

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV106\240418RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNLVI.M	Tune1	WG1911693,,	4/18/2024 8:26 pm
2	ABNL9.D	ABNLVI.M	IL2,32,,ABNL50 Lot# 106	WG1911693,,	4/18/2024 8:50 pm
3	ABNL8.D	ABNLVI.M	IL3,32,,ABNL25 Lot# 106	WG1911693,,	4/18/2024 9:14 pm
4	ABNL7.D	ABNLVI.M	IL4,32,,ABNL10 Lot# 106	WG1911693,,	4/18/2024 9:39 pm
5	ABNL6.D	ABNLVI.M	IL5,32,,ABNL5 Lot# 1069	WG1911693,,	4/18/2024 10:03 pm
6	ABNL5.D	ABNLVI.M	IL6,32,,ABNL2.5 Lot# 10	WG1911693,,	4/18/2024 10:27 pm
7	ABNL4.D	ABNLVI.M	IL7,32,,ABNL1 Lot# 1069	WG1911693,,	4/18/2024 10:51 pm
8	ABNL3.D	ABNLVI.M	IL8,32,,ABNL0.5 Lot# 10	WG1911693,,	4/18/2024 11:15 pm
9	ABNL2.D	ABNLVI.M	IL9,32,,ABNL0.2 Lot# 10	WG1911693,,	4/18/2024 11:39 pm
10	AP9L8.D	ABNLVI.M	IL3,32,,AP9L25 Lot# 107	WG1911693,,	4/19/2024 12:51 am
11	AP9L9.D	ABNLVI.M	IL2,32,,AP9L50 Lot# 107	WG1911693,,	4/19/2024 12:27 am
12	ABNL1.D	ABNLVI.M	IL10,32,,ABNL0.1 Lot# 1	WG1911693,,	4/19/2024 12:04 am
13	AP9L7.D	ABNLVI.M	IL4,32,,AP9L10 Lot# 107	WG1911693,,	4/19/2024 1:16 am
14	AP9L6.D	ABNLVI.M	IL5,32,,AP9L5 Lot# 1070	WG1911693,,	4/19/2024 1:39 am
15	AP9L5.D	ABNLVI.M	IL6,32,,AP9L2.5 Lot# 10	WG1911693,,	4/19/2024 2:03 am
16	AP9L4.D	ABNLVI.M	IL7,32,,AP9L1 Lot# 1070	WG1911693,,	4/19/2024 2:28 am
17	AP9L3.D	ABNLVI.M	IL8,32,,AP9L0.5 Lot# 10	WG1911693,,	4/19/2024 2:52 am
18	AP9L2.D	ABNLVI.M	IL9,32,,AP9L0.2 Lot# 10	WG1911693,,	4/19/2024 3:16 am
19	AP9L1.D	ABNLVI.M	IL10,32,,AP9L0.1 Lot# 1	WG1911693,,	4/19/2024 3:41 am
20	ABNICV.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#	WG1911693,,	4/19/2024 4:04 am
21	AP9ICV.D	ABNLVI.M	CQICV2,32,,AP9ICV Lot#	WG1911693,,	4/19/2024 4:29 am
22	Tune2.D	ABNLVI.M	Tune2	WG1911693,,	4/19/2024 4:53 am
23	ADPL9.D	ABNLVI.M	IL2,32,,ADPL50 Lot# 107	WG1911693,,	4/19/2024 5:17 am
24	ADPL8.D	ABNLVI.M	IL3,32,,ADPL25 Lot# 107	WG1911693,,	4/19/2024 5:41 am
25	ADPL7.D	ABNLVI.M	IL4,32,,ADPL10 Lot# 107	WG1911693,,	4/19/2024 6:05 am
26	ADPL6.D	ABNLVI.M	IL5,32,,ADPL5 Lot# 1071	WG1911693,,	4/19/2024 6:29 am
27	ADPL5.D	ABNLVI.M	IL6,32,,ADPL2.5 Lot# 10	WG1911693,,	4/19/2024 6:52 am
28	ADPL4.D	ABNLVI.M	IL7,32,,ADPL1 Lot# 1071	WG1911693,,	4/19/2024 7:16 am
29	ADPL3.D	ABNLVI.M	IL8,32,,ADPL0.5 Lot# 10	WG1911693,,	4/19/2024 7:40 am
30	ADPL2.D	ABNLVI.M	IL9,32,,ADPL0.2 Lot# 10	WG1911693,,	4/19/2024 8:04 am
31	ADPL1.D	ABNLVI.M	IL10,32,,ADPL0.1 Lot# 1	WG1911693,,	4/19/2024 8:27 am
32	ADPICV.D	ABNLVI.M	CQICV3,32,,ADPICV Lot#	WG1911693,,	4/19/2024 8:51 am
33	Blank1.D	ABNLVI.M	LVI Instrument Blank	WG1911693,,	4/19/2024 9:15 am

Printed: 04/22/24 Page: 1

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Dep.: GCMS
Inst: SV106
Date: **06/16/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1934989**

Vial	Data File	Sample	CCAL	notes	Initials
141	DEG0616	wg-1,32,,Degdftpp Lot # 10812			
142	ABN0616	wg-3,32,,ABN 10526 HNY0517B			
144	ADP0616	wg-5,32,,ADP 10751 gmr0518B			
143	AP90616	wg-4,32,,AP9 10776 mrg0604A			
1	934852-1	WG1934852-1,32,,cmm			
2	934852-2	WG1934852-2,32,,cmm			
3	934852-3	WG1934852-3,32,,cmm			
4	934854-1	WG1934854-1,32,,cmm			
5	934854-2	WG1934854-2,32,,cmm			
6	934854-3	WG1934854-3,32,,cmm			
7	934900-1	WG1934900-1,32,,cmm			
8	934900-2	WG1934900-2,32,,cmm			
9	934900-3	WG1934900-3,32,,cmm			
10	33652-02	L2433652-02,32,,R3A,cmm			
11	32299-01	L2432299-01,32,,cmm			
12	32425-01	L2432425-01,32,,cmm			
13	32425-02	L2432425-02,32,,cmm			
14	33817-01	L2433817-01,32,,R3A,cmm			
15	33316-02	L2433316-02,32,,R3B,cmm			
16	33142-01	L2433142-01,32,,R1D,cmm			
17	33142-03	L2433142-03,32,,R1D,cmm			
18	33142-05	L2433142-05,32,,R1D,cmm			
19	934900-4	WG1934900-4,32,,cmm			
20	934900-5	WG1934900-5,32,,cmm			
21	33142-07	L2433142-07,32,,R1D,cmm			
22	33142-09	L2433142-09,32,,R1D,cmm			
23	33142-11	L2433142-11,32,,R1D,cmm			
24	22662-50	L2422662-50,32,,cmm			
25	934852-4	WG1934852-4,32,,cmm			
26	934852-5	WG1934852-5,32,,cmm		HNY – 6/17	

Dep.: GCMS
Inst: SV106
Date: **06/18/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1935854**

Vial	Data File	Sample	CCAL	notes	Initials
141	DEG0618	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0618	wg-3,32,,ABN 10526 HNY0517B			
143	AP90618	wg-4,32,,AP9 10770 gmr0616A			
142	ABN0618a	wg-3,32,,ABN 10526 HNY0517C			
144	ADP0618	wg-5,32,,ADP 10751 gmr0518B			
145	BLK0618	LVIBlank			
1	32668-07	L2432668-07,32,,HNY			
2	32096-59	L2432096-59,32,,HNY			
3	32523-06	L2432523-06,32,,HNY			
4	32594-01	L2432594-01,32,,HNY			
5	32594-02	L2432594-02,32,,HNY			
6	32594-03	L2432594-03,32,,HNY			
7	32594-04	L2432594-04,32,,HNY			
8	32594-05	L2432594-05,32,,HNY			
9	32594-06	L2432594-06,32,,HNY			
10	32594-07	L2432594-07,32,,HNY			
11	32996-05	L2432996-05,32,,HNY			
12	32996-06	L2432996-06,32,,HNY			
13	33035-01	L2433035-01,32,,HNY			
14	33035-02	L2433035-02,32,,HNY			
15	33035-03	L2433035-03,32,,HNY			
16	934854-4	WG1934854-4,32,,HNY			
17	934854-5	WG1934854-5,32,,HNY			
18	33035-04	L2433035-04,32,,HNY			
19	33035-05	L2433035-05,32,,HNY			
20	33035-06	L2433035-06,32,,HNY			
21	33035-07	L2433035-07,32,,HNY			
22	33035-08	L2433035-08,32,,HNY			
23	33035-09	L2433035-09,32,,HNY			
24	33035-10	L2433035-10,32,,HNY			
25	33160-01	L2433160-01,32,,HNY			mrg 6/18/24

Dep.: GCMS
Inst: SV106
Date: **06/18/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1936417**

Vial	Data File	Sample	CCAL	notes	Initials
141	DEG0619	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0619	wg-3,32,,ABN 10526 HNY0517B			
143	AP90619	wg-4,32,,AP9 10770 gmr0616A			
142	ABN0619a	wg-3,32,,ABN ICV 10805			
144	ADP0619	wg-5,32,,ADP 10751 gmr0518B			
1	935741-1	WG1935741-1,32,,gmr			
2	935741-2	WG1935741-2,32,,gmr			
3	935741-3	WG1935741-3,32,,gmr			
4	935891-1	WG1935891-1,32,,gmr			
5	935891-2	WG1935891-2,32,,gmr			
6	935891-3	WG1935891-3,32,,gmr			
7	32799-01	L2432799-01,32,,RE,gmr			
8	34125-01	L2434125-01,32,,R3B,gmr			
9	34125-02	L2434125-02,32,,R3B,gmr			
10	34125-03	L2434125-03,32,,R3B,gmr			
11	32760-04	L2432760-04,32,,gmr			
12	32760-05	L2432760-05,32,,gmr			
13	32970-09	L2432970-09,32,,gmr			
14	33153-03	L2433153-03,32,,gmr			
15	33153-05	L2433153-05,32,,gmr			
16	33153-06	L2433153-06,32,,gmr			
17	33153-07	L2433153-07,32,,gmr			
18	33153-08	L2433153-08,32,,gmr			
19	935891-4	WG1935891-4,32,,gmr			
20	935891-5	WG1935891-5,32,,gmr			
21	22662-53	L2422662-53,32,,gmr			

Dep.: GCMS
Inst: **SV107**
Date: **06/19/24**
Run:

Method
GC: 8270 FSLVI

Seq: **WG1936476**

Vial	Data File	Sample	CCAL	notes	initials
141	DEG0619	wg-1,32,,Degdftpp Lot # 10848			
142	ABN0619	wg-3,32,,ABN 10805 HNY0517C			
143	AP90619	wg-4,32,,AP9 10770 gmr0616A			
144	ADP0619	wg-5,32,,ADP 10751 gmr0518C			
1	935468-1	WG1935468-1,32,,gmr			
2	935468-2	WG1935468-2,32,,gmr			
3	935468-3	WG1935468-3,32,,gmr			
4	936175-1	WG1936175-1,32,,gmr			
5	936175-2	WG1936175-2,32,,gmr			
6	936175-3	WG1936175-3,32,,gmr			
7	34077-02	L2434077-02,32,,R1C,gmr			
8	33029-01	L2433029-01,32,,gmr			
9	936313-2	WG1936310/2/3-2,32,,HNY			
10	936313-3	WG1936310/2/3-3,32,,HNY			
11	936313-1	WG1936310/2/3-1,32,,HNY			
12	33316-01	L2433316-01,32,,R3B,HNY			
13	32991-06	L2432991-06,32,,gmr			
14	33035-07	L2433035-07,32,,RE,gmr			
15	33035-08	L2433035-08,32,,RE,gmr			
16	934928-2	WG1934928-2,32,,gmr			
17	934928-3	WG1934928-3,32,,gmr			
18	934928-1	WG1934928-1,32,,gmr			
19	33011-04	L2433011-04,32,,gmr			
20	22662-21	L2422662-21,32,,HNY			
21	936310-4	WG1936310-4,32,,HNY			
22	936310-5	WG1936310-5,32,,HNY			

ORGANIC ELN REPORT

Workgroup: WG1935741

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10808ag,10/31/2024,d1,7,2
Spike Type: ABN **Lot #:** 10737-103124,10738-083024
Spike Verify by: NBD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH051124

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432970-09 WATER	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
L2433035-07 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2433035-08 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2434125-01 WATER	06/18/24 08:26	Nicholas Dunn	55	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
	LIM VOL DUE TO SEDIMENT									
L2434125-02 WATER	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
L2434125-03 WATER	06/18/24 08:26	Nicholas Dunn	75	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
	LIM VOL DUE TO SEDIMENT									

Reported: 20-JUN-24 01:32 PM

ORGANIC ELN REPORT

Workgroup: WG1935741

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1935741-1 BLANK	06/18/24 08:26 **WG1935742**	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
WG1935741-2 LCS	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1	.1	06/18/24 17:52	Kostandina Witham	1	H
WG1935741-3 LCSD	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1	.1	06/18/24 17:52	Kostandina Witham	1	H

ORGANIC ELN REPORT

Workgroup: WG1934854

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10736AJ,11/06/2024,D1,4,4
Spike Type: ABN **Lot #:** 10737,103124, 10738, 083024
Spike Verify by: RSN/DLP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432996-05 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2432996-06 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-01 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-02 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:19	Victor Kono	1	H
L2433035-03 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-04 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-05 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H

Reported: 20-JUN-24 01:32 PM

ORGANIC ELN REPORT

Workgroup: WG1934854

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2433035-06 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-07 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-08 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-09 SAMP	06/16/24 08:49	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433035-10 SAMP	06/16/24 08:49	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433160-01 SAMP	06/16/24 08:49	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433160-02 SAMP	06/16/24 08:49	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433652-02 SAMP	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H
L2433817-01 SAMP	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H
WG1934854-1 BLANK	06/15/24 15:46 **WG1934857**	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H

Reported: 20-JUN-24 01:32 PM

ORGANIC ELN REPORT

Workgroup: WG1934854

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1934854-2 LCS	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1	.1	06/15/24 22:49	Victor Kono	1	H
WG1934854-3 LCSD	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1	.1	06/15/24 22:49	Victor Kono	1	H
WG1934854-4 MS	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1	.1	06/16/24 17:01	Victor Kono	1	H
WG1934854-5 MSD	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1	.1	06/16/24 17:01	Victor Kono	1	H

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2433035-01)	22	20	66	61	32	84	0
MW-8D (L2433035-02)	17*	18	67	64	22	80	1
MW-1SR (L2433035-03)	22	23	75	72	27	82	0
MW-1DR2 (L2433035-04)	38	28	58	56	51	77	0
MP-1 (L2433035-05)	13*	16	61	60	17	76	1
MP-1D (L2433035-06)	24	22	58	56	30	74	0
EB_06122024 (L2433035-09)	21	22	77	75	28	85	0
DUP_06122024 (L2433035-10)	46	32	76	75	66	88	0
WG1934857-1BLANK	45	32	71	72	63	80	0
WG1934857-2LCS	26	25	77	72	47	79	0
WG1934857-3LCSD	49	36	77	70	76	77	0
MW-1SRMS	16*	18	51	47	23	61	1
MW-1SRMSD	17*	23	78	69	27	84	1

QC LIMITS

(21-120)	2FP = 2-FLUOROPHENOL
(10-120)	PHL = PHENOL-D6
(23-120)	NBZ = NITROBENZENE-D5
(15-120)	FBP = 2-FLUOROBIPHENYL
(10-120)	TBP = 2,4,6-TRIBROMOPHENOL
(41-149)	TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934857-2 **Analysis Date** : 06/17/24 08:04	**File ID**	: 934857-2
LCSD Sample ID	: WG1934857-3 **Analysis Date** : 06/17/24 08:21	**File ID**	: 934857-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	14	69	20	14	69	0	40-140	40
2-Chloronaphthalene	20	13	63	20	13	64	2	40-140	40
Fluoranthene	20	16	81	20	16	80	1	40-140	40
Hexachlorobutadiene	20	8.8	44	20	9.6	48	9	40-140	40
Naphthalene	20	11	57	20	12	59	3	40-140	40
Benzo(a)anthracene	20	15	74	20	14	73	1	40-140	40
Benzo(a)pyrene	20	16	83	20	16	82	1	40-140	40
Benzo(b)fluoranthene	20	16	81	20	16	78	4	40-140	40
Benzo(k)fluoranthene	20	15	76	20	16	79	4	40-140	40
Chrysene	20	14	71	20	14	71	0	40-140	40
Acenaphthylene	20	15	74	20	15	73	1	40-140	40
Anthracene	20	15	74	20	15	73	1	40-140	40
Benzo(ghi)perylene	20	16	79	20	16	79	0	40-140	40
Fluorene	20	15	74	20	15	73	1	40-140	40
Phenanthrene	20	14	72	20	14	72	0	40-140	40
Dibenzo(a,h)anthracene	20	18	88	20	18	89	1	40-140	40
Indeno(1,2,3-cd)pyrene	20	17	86	20	17	87	1	40-140	40
Pyrene	20	16	82	20	16	80	2	40-140	40
2-Methylnaphthalene	20	12	62	20	12	62	0	40-140	40
Pentachlorophenol	20	8.5	42	20	15	75	56 Q	40-140	40
Hexachlorobenzene	20	14	71	20	14	70	1	40-140	40
Hexachloroethane	20	8.9	44	20	10	50	13	40-140	40
Bis(2-chloroethyl)ether	20	14	70	20	14	71	1	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 11:57
Matrix Spike	: WG1934857-4	**MS Analysis Date**	: 06/18/24 12:13
Matrix Spike Dup	: WG1934857-5	**MSD Analysis Date**	: 06/18/24 12:30

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	20	9.5	48		20	15	75		45 Q	40-140	40
2-Chloronaphthalene	ND	20	9.1	46		20	14	70		42 Q	40-140	40
Fluoranthene	ND	20	11	55		20	17	85		43 Q	40-140	40
Hexachlorobutadiene	ND	20	6.7	34	Q	20	11	55		49 Q	40-140	40
Naphthalene	0.03J	20	7.8	39	Q	20	12	60		42 Q	40-140	40
Benzo(a)anthracene	ND	20	9.9	50		20	15	75		41 Q	40-140	40
Benzo(a)pyrene	ND	20	11	55		20	17	85		43 Q	40-140	40
Benzo(b)fluoranthene	ND	20	10	50		20	16	80		46 Q	40-140	40
Benzo(k)fluoranthene	ND	20	11	55		20	17	85		43 Q	40-140	40
Chrysene	ND	20	9.9	50		20	15	75		41 Q	40-140	40
Acenaphthylene	ND	20	10	50		20	16	80		46 Q	40-140	40
Anthracene	ND	20	10	50		20	16	80		46 Q	40-140	40
Benzo(ghi)perylene	ND	20	11	55		20	17	85		43 Q	40-140	40
Fluorene	ND	20	10	50		20	16	80		46 Q	40-140	40
Phenanthrene	ND	20	10	50		20	15	75		40	40-140	40
Dibenzo(a,h)anthracene	ND	20	12	60		20	19	95		45 Q	40-140	40
Indeno(1,2,3-cd)pyrene	ND	20	12	60		20	19	95		45 Q	40-140	40
Pyrene	ND	20	11	55		20	17	85		43 Q	40-140	40
2-Methylnaphthalene	ND	20	8.7	44		20	14	70		47 Q	40-140	40
Pentachlorophenol	ND	20	3.8	19	Q	20	3.8	19	Q	0	40-140	40
Hexachlorobenzene	ND	20	9.8	49		20	15	75		42 Q	40-140	40
Hexachloroethane	ND	20	6.4	32	Q	20	11	55		53 Q	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 11:57
Matrix Spike	: WG1934857-4	**MS Analysis Date**	: 06/18/24 12:13
Matrix Spike Dup	: WG1934857-5	**MSD Analysis Date**	: 06/18/24 12:30

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bis(2-chloroethyl)ether	ND	20	9.4	47	20	14	70	39	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934857-1	**Lab File ID**	: 934857-1
Instrument ID	: SV120	**Extraction Date**	: 06/15/24
Matrix	: WATER	**Analysis Date**	: 06/17/24 07:48
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1934857-2LCS	WG1934857-2	06/17/24 08:04
WG1934857-3LCSD	WG1934857-3	06/17/24 08:21
MW-8S	L2433035-01	06/18/24 11:24
MW-8D	L2433035-02	06/18/24 11:41
MW-1SR	L2433035-03	06/18/24 11:57
MW-1SRMS	WG1934857-4	06/18/24 12:13
MW-1SRMSD	WG1934857-5	06/18/24 12:30
MW-1DR2	L2433035-04	06/18/24 12:46
MP-1	L2433035-05	06/18/24 13:02
MP-1D	L2433035-06	06/18/24 13:18
EB_06122024	L2433035-09	06/18/24 14:07
DUP_06122024	L2433035-10	06/18/24 14:24

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/21/24 09:54
Tune Standard	: R1834227-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52.6
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	54.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	23.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.9
442	Base Peak, or >50% of mass 198	58.5
443	15.0 - 24.0% of mass 442	10.8 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL9	R1834227-12	IL9	05/21/24 10:37
IL8	R1834227-11	IL8	05/21/24 10:53
IL7	R1834227-10	IL7	05/21/24 11:10
IL6	R1834227-9	IL6	05/21/24 11:26
IL5	R1834227-8	IL5	05/21/24 11:42
IL4	R1834227-7	IL4	05/21/24 11:59
IL3	R1834227-6	IL3	05/21/24 12:15
IL2	R1834227-5	IL2	05/21/24 12:32
IL1	R1834227-3	IL1	05/21/24 12:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 05/22/24 13:16
Tune Standard	: R1834227-2	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.4
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	51
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.5
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	79.9
443	15.0 - 24.0% of mass 442	16.3 (20.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10a	R1834227-4	IL10A	05/22/24 13:32
ICV Quant Report	R1834227-13	ICVA	05/22/24 13:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 06:47
Tune Standard	: WG1935125-1	**Tune File ID**	: deg0617_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	45.2
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.1 (.2)1
127	10.0 - 80.0% of Base Peak	50.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	27.8
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than 24% of mass 442	19.1
442	Base Peak, or >50% of mass 198	86.4
443	15.0 - 24.0% of mass 442	15.7 (18.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935125-4TFACTOR-B	WG1935125-4	DEG0617	06/17/24 06:47
WG1935125-5TFACTOR-P	WG1935125-5	DEG0617	06/17/24 06:47
WG1935125-3CCAL	WG1935125-3	CCV0617	06/17/24 07:04
WG1934857-1BLANK	WG1934857-1	934857-1	06/17/24 07:48
WG1934857-2LCS	WG1934857-2	934857-2	06/17/24 08:04
WG1934857-3LCSD	WG1934857-3	934857-3	06/17/24 08:21

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/18/24 06:57
Tune Standard	: WG1935718-1	**Tune File ID**	: deg0618_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.3
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	48
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	29.4
365	Greater than 1.0% of mass 198	4
441	Present, but less than 24% of mass 442	19.9
442	Base Peak, or >50% of mass 198	96.3
443	15.0 - 24.0% of mass 442	18.3 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1935718-4TFACTOR-B	WG1935718-4	DEG0618	06/18/24 06:57
WG1935718-5TFACTOR-P	WG1935718-5	DEG0618	06/18/24 06:57
WG1935718-3CCAL	WG1935718-3	CCV0618	06/18/24 07:13
MW-8S	L2433035-01	33035-01	06/18/24 11:24
MW-8D	L2433035-02	33035-02	06/18/24 11:41
MW-1SR	L2433035-03	33035-03	06/18/24 11:57
WG1934857-4MS	WG1934857-4	934857-4	06/18/24 12:13
WG1934857-5MSD	WG1934857-5	934857-5	06/18/24 12:30
MW-1DR2	L2433035-04	33035-04	06/18/24 12:46
MP-1	L2433035-05	33035-05	06/18/24 13:02
MP-1D	L2433035-06	33035-06	06/18/24 13:18
EB_06122024	L2433035-09	33035-09	06/18/24 14:07
DUP_06122024	L2433035-10	33035-10	06/18/24 14:24

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 07:04:00
Sample No	: WG1935125-3	**Lab File ID**	: CCV0617

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1935125-3	108607	2.21	406711	2.87	240410	3.84
Upper Limit	217214	2.71	813422	3.37	480820	4.34
Lower Limit	54304	1.71	203356	2.37	120205	3.34
Sample ID						
WG1934857-1 BLANK	115407	2.19	427157	2.85	244944	3.83
WG1934857-2 LCS	126893	2.20	490067	2.86	274666	3.84
WG1934857-3 LCSD	123881	2.20	480645	2.86	265472	3.84

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/17/24 07:04:00
Sample No	: WG1935125-3	**Lab File ID**	: CCV0617

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1935125-3	525169	4.68	478566	6.21	501063	7.38
Upper Limit	1050338	5.18	957132	6.71	1002126	7.88
Lower Limit	262585	4.18	239283	5.71	250532	6.88
Sample ID						
WG1934857-1 BLANK	525997	4.67	477799	6.25	478685	7.42
WG1934857-2 LCS	587422	4.67	508372	6.21	519795	7.38
WG1934857-3 LCSD	559575	4.67	483204	6.21	496431	7.37

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/18/24 07:13:00
Sample No	: WG1935718-3	**Lab File ID**	: CCV0618

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1935718-3	104092	2.21	383025	2.87	220388	3.84
Upper Limit	208184	2.71	766050	3.37	440776	4.34
Lower Limit	52046	1.71	191513	2.37	110194	3.34
Sample ID						
MW-8S	114984	2.20	427617	2.86	248488	3.84
MW-8D	115472	2.20	426961	2.86	247032	3.84
MW-1SR	117200	2.21	433137	2.86	246994	3.84
MW-1SR MS	120308	2.20	461155	2.86	262475	3.84
MW-1SR MSD	114975	2.21	446820	2.86	242812	3.84
MW-1DR2	109165	2.21	403461	2.86	227537	3.84
MP-1	102757	2.21	378646	2.86	214285	3.83
MP-1D	108261	2.20	400155	2.86	226216	3.84
EB_06122024	83661	2.20	308001	2.86	175570	3.84
DUP_06122024	95809	2.20	355119	2.86	201894	3.84

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 06/18/24 07:13:00
Sample No	: WG1935718-3	**Lab File ID**	: CCV0618

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1935718-3	468722	4.68	427549	6.21	460182	7.38
Upper Limit	937444	5.18	855098	6.71	920364	7.88
Lower Limit	234361	4.18	213775	5.71	230091	6.88
Sample ID						
MW-8S	553278	4.67	509956	6.21	506430	7.37
MW-8D	537986	4.67	502074	6.21	504194	7.38
MW-1SR	523103	4.67	465414	6.21	474982	7.37
MW-1SR MS	568038	4.67	488648	6.21	501020	7.38
MW-1SR MSD	512713	4.67	441538	6.21	456454	7.38
MW-1DR2	489052	4.67	463331	6.21	483392	7.38
MP-1	463081	4.67	437918	6.21	459433	7.38
MP-1D	486146	4.67	447110	6.21	459510	7.37
EB_06122024	374889	4.67	347553	6.21	355935	7.38
DUP_06122024	423813	4.67	382060	6.21	389344	7.38

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:24
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-01	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:24
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-01	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:41
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-02	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:41
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-02	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-03	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.03	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 11:57
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-03	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 12:46
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-04	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 12:46
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-04	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:02
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-05	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:02
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-05	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:18
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-06	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:18
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-06	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:07
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-09	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:07
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-09	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:24
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-10	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:24
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 33035-10	**Analyst**	: SBC
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934857-1	**Date Collected**	: NA
Client ID	: WG1934857-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 07:48
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 934857-1	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.09	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	0.49	0.80	0.06	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934857-1	**Date Collected**	: NA
Client ID	: WG1934857-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 07:48
Sample Matrix	: WATER	**Date Extracted**	: 06/15/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 934857-1	**Analyst**	: AH
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 11:24 am
Operator : SV120:sbc
Sample : L2433035-01,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 13:40:33 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	114984	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 110.46%			
8) Naphthalene-d8	2.864	136	427617	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 111.64%			
17) Acenaphthene-d10	3.837	164	248488	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 112.75%			
22) Phenanthrene-d10	4.671	188	553278	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 118.04%			
31) Chrysene-d12	6.208	240	509956	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 119.27%			
36) Perylene-d12	7.374	264	506430	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 110.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	15279	447.087	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.35%			
3) Phenol-d6	2.021	99	16369	398.472	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 19.92%			
7) Nitrobenzene-d5	2.483	82	23977	655.101	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.51%			
13) 2-Fluorobiphenyl	3.459	172	55691	612.496	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 61.25%			
21) 2,4,6-Tribromophenol	4.280	330	10859	645.103	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.26%			
30) 4-Terphenyl-d14	5.582	244	94789	842.016	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 42.10%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 11:24 am
Operator : SV120:sbc
Sample : L2433035-01,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 13:40:33 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

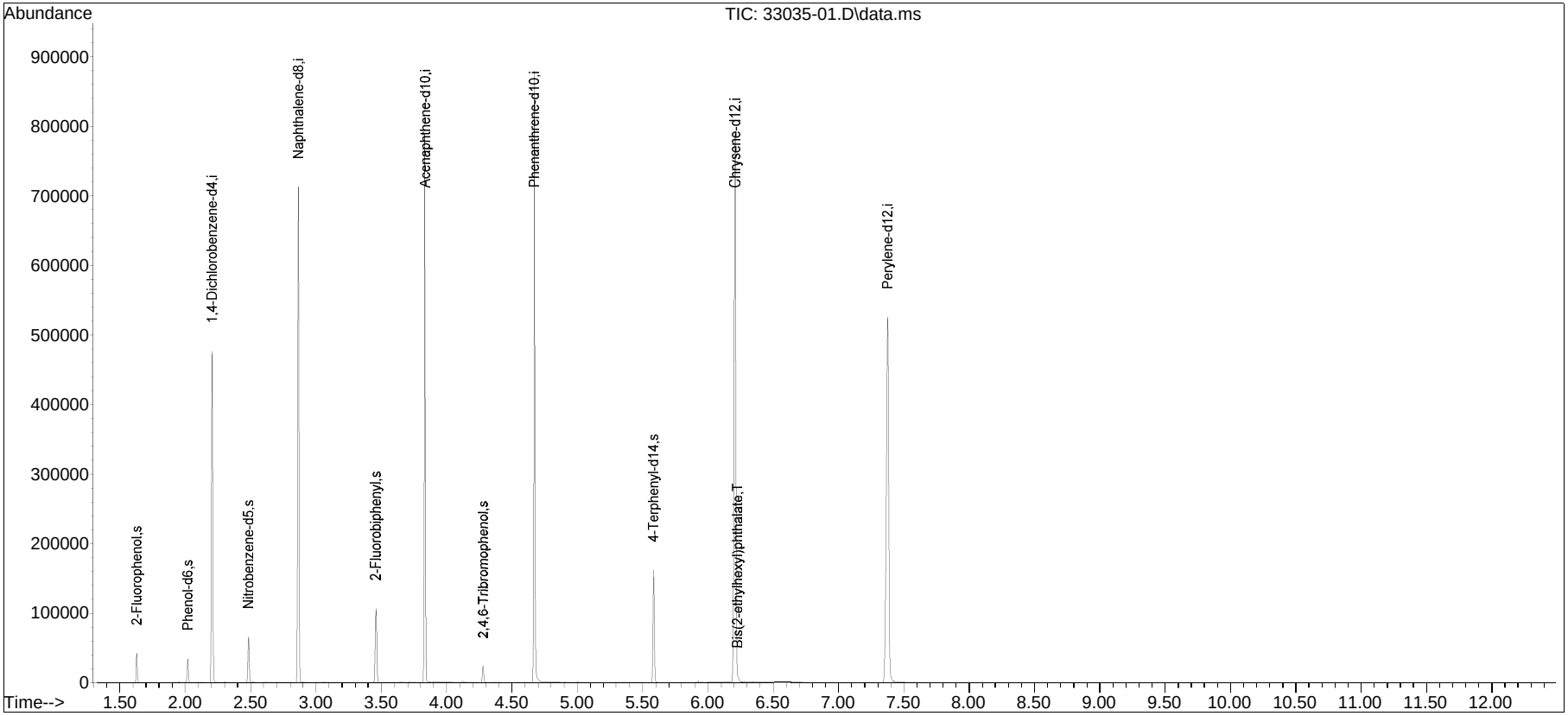
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-01.D
Acq On : 18 Jun 2024 11:24 am
Operator : SV120:sbc
Sample : L2433035-01,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 13:40:33 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 11:41 am
Operator : SV120:sbc
Sample : L2433035-02,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 13:42:47 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	115472	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 110.93%			
8) Naphthalene-d8	2.864	136	426961	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 111.47%			
17) Acenaphthene-d10	3.837	164	247032	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 112.09%			
22) Phenanthrene-d10	4.671	188	537986	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 114.78%			
31) Chrysene-d12	6.208	240	502074	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 117.43%			
36) Perylene-d12	7.376	264	504194	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 109.56%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	11458	333.862	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 16.69%			
3) Phenol-d6	2.021	99	14947	362.318	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 18.12%			
7) Nitrobenzene-d5	2.483	82	24741	673.118	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 67.31%			
13) 2-Fluorobiphenyl	3.459	172	58542	644.841	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.48%			
21) 2,4,6-Tribromophenol	4.279	330	7211	432.337	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 21.62%			
30) 4-Terphenyl-d14	5.582	244	87396	798.411	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 39.92%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 11:41 am
Operator : SV120:sbc
Sample : L2433035-02,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 13:42:47 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

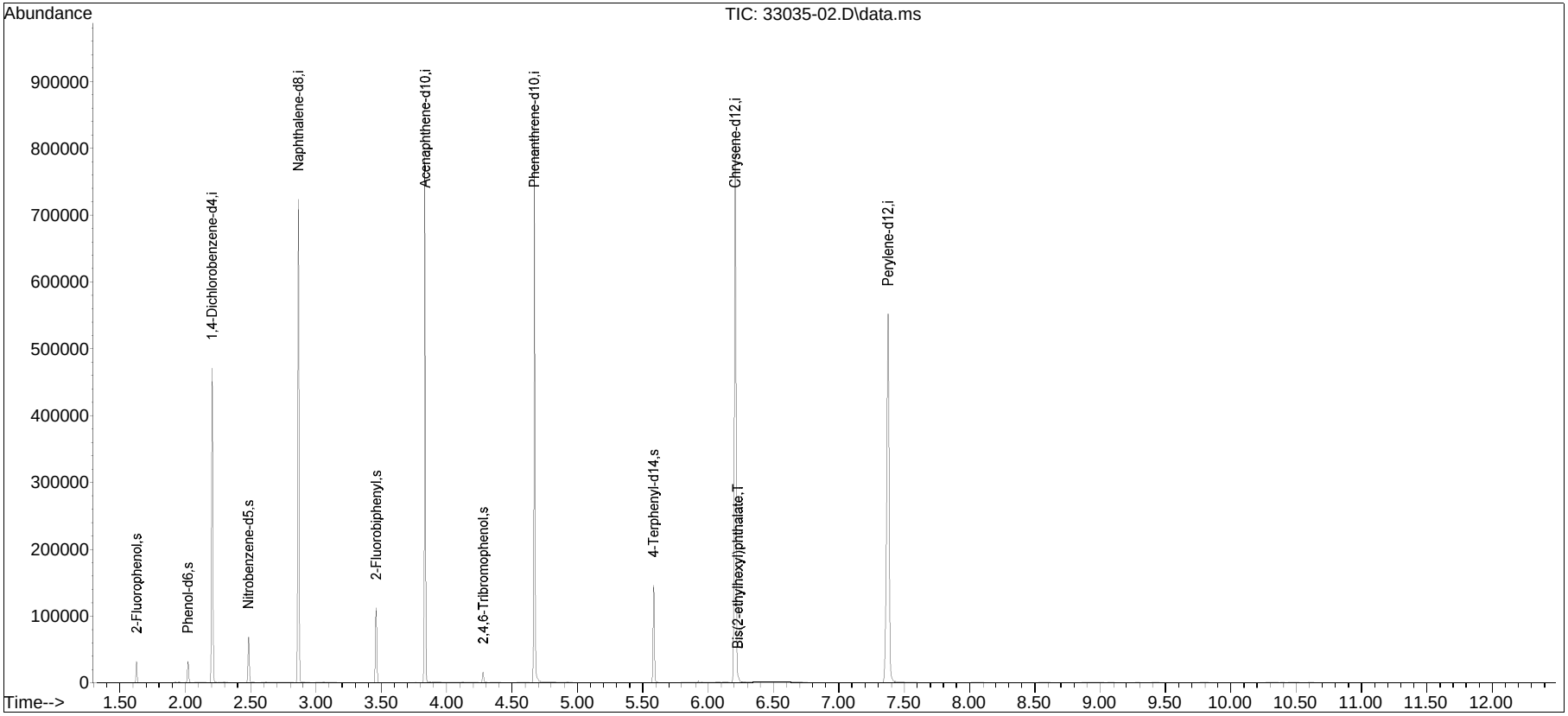
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-02.D
Acq On : 18 Jun 2024 11:41 am
Operator : SV120:sbc
Sample : L2433035-02,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 13:42:47 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 11:57 am
Operator : SV120:sbc
Sample : L2433035-03,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 15:13:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	117200	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 112.59%			
8) Naphthalene-d8	2.863	136	433137	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 113.08%			
17) Acenaphthene-d10	3.836	164	246994	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 112.07%			
22) Phenanthrene-d10	4.671	188	523103	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 111.60%			
31) Chrysene-d12	6.208	240	465414	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 108.86%			
36) Perylene-d12	7.373	264	474982	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 103.22%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	15607	448.050	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.40%			
3) Phenol-d6	2.021	99	19344	461.989	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 23.10%			
7) Nitrobenzene-d5	2.483	82	27794	745.031	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.50%			
13) 2-Fluorobiphenyl	3.459	172	65883	715.355	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 71.54%			
21) 2,4,6-Tribromophenol	4.279	330	9080	543.362	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.17%			
30) 4-Terphenyl-d14	5.582	244	87529	822.377	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 41.12%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.874	128	369	3.014	ng/ml#	92
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 11:57 am
Operator : SV120:sbc
Sample : L2433035-03,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 15:13:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

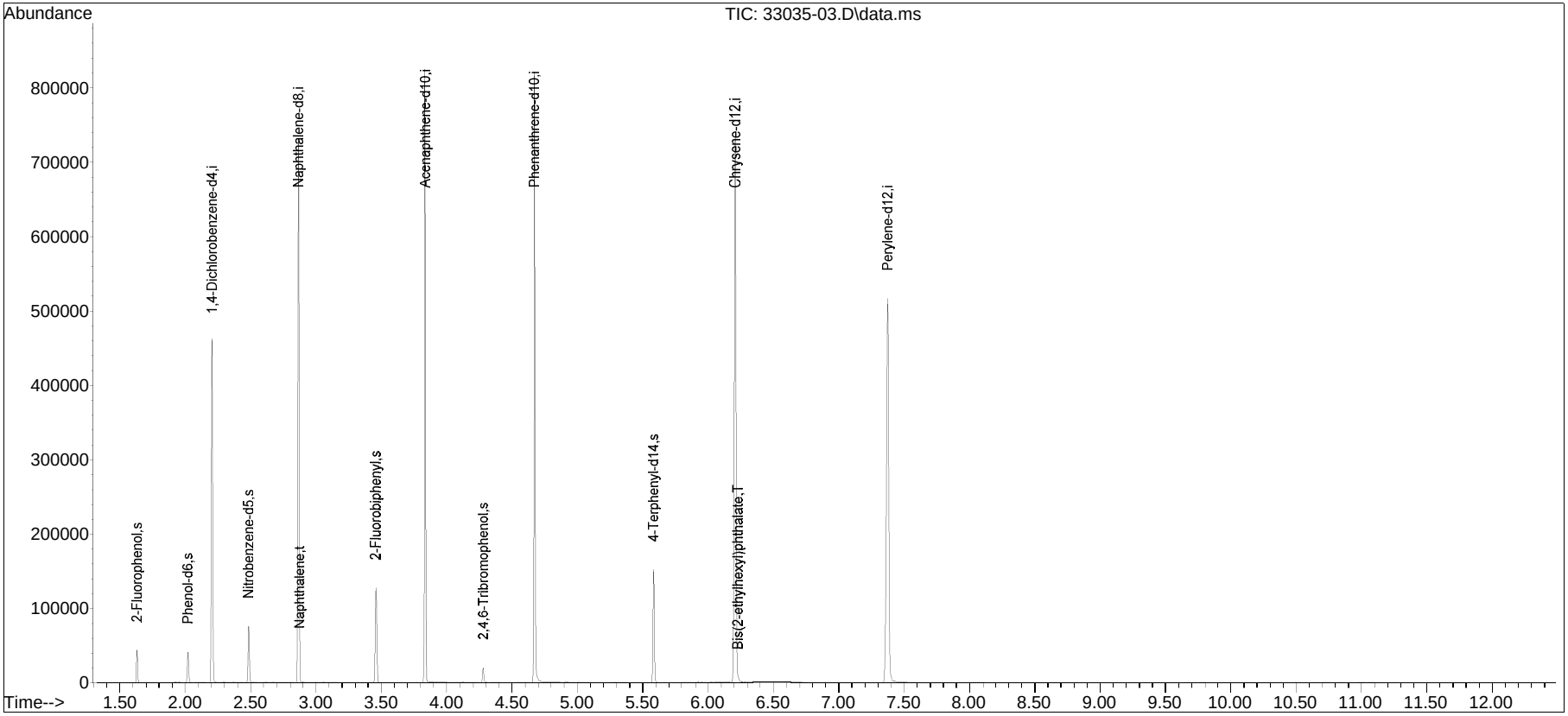
(#) = qualifier out of range (m) = manual integration (+) = signals summed

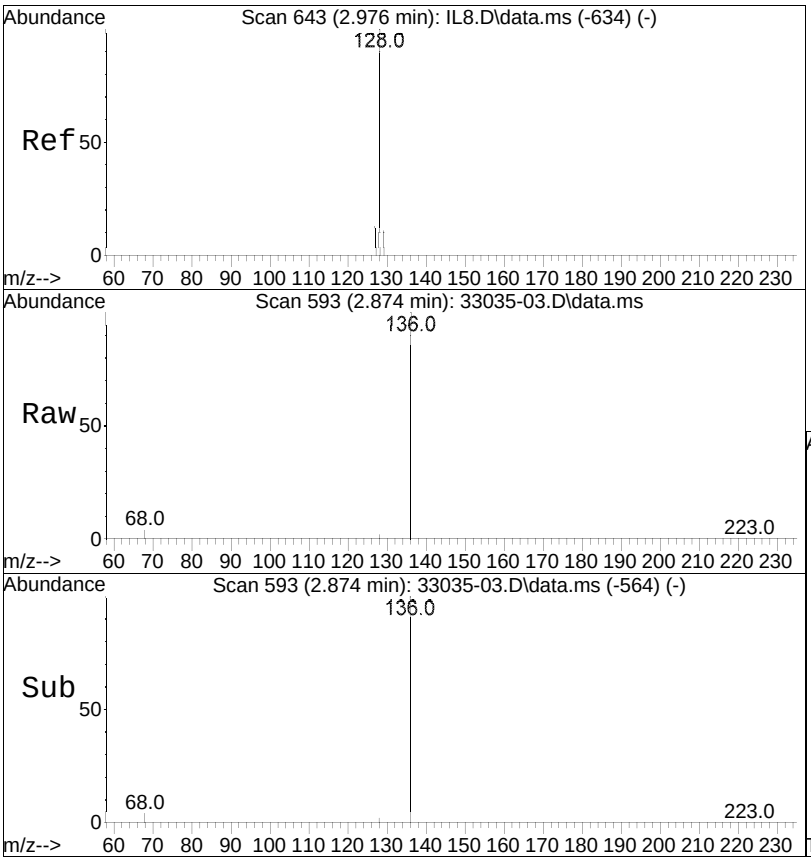
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-03.D
Acq On : 18 Jun 2024 11:57 am
Operator : SV120:sbc
Sample : L2433035-03,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 15:13:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•

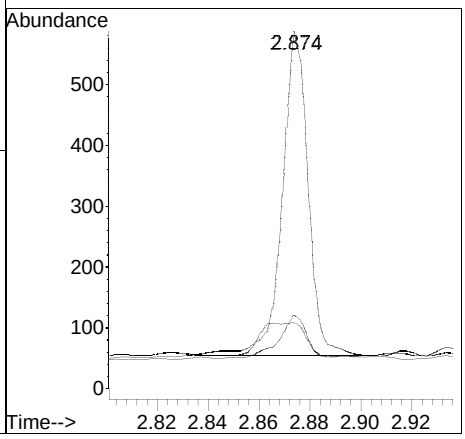




#9
Naphthalene
Concen: 3.01 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.005 min
Lab File: 33035-03.D
Acq: 18 Jun 2024 11:57 am

Tgt Ion:128 Resp: 369

Ion	Ratio	Lower	Upper
128	100		
129	18.2	9.0	13.4#
127	14.1	11.3	16.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 12:46 pm
Operator : SV120:sbc
Sample : L2433035-04,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 15:07:42 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	109165	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 104.87%			
8) Naphthalene-d8	2.863	136	403461	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 105.34%			
17) Acenaphthene-d10	3.835	164	227537	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 103.24%			
22) Phenanthrene-d10	4.672	188	489052	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 104.34%			
31) Chrysene-d12	6.209	240	463331	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 108.37%			
36) Perylene-d12	7.375	264	483392	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 105.04%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	24713	761.687	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.08%			
3) Phenol-d6	2.021	99	22172	568.505	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.43%			
7) Nitrobenzene-d5	2.483	82	20283	583.713	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 58.37%			
13) 2-Fluorobiphenyl	3.459	172	48135	561.090	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 56.11%			
21) 2,4,6-Tribromophenol	4.281	330	15635	1011.897	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.59%			
30) 4-Terphenyl-d14	5.583	244	76315	766.939	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 38.35%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 12:46 pm
Operator : SV120:sbc
Sample : L2433035-04,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 15:07:42 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

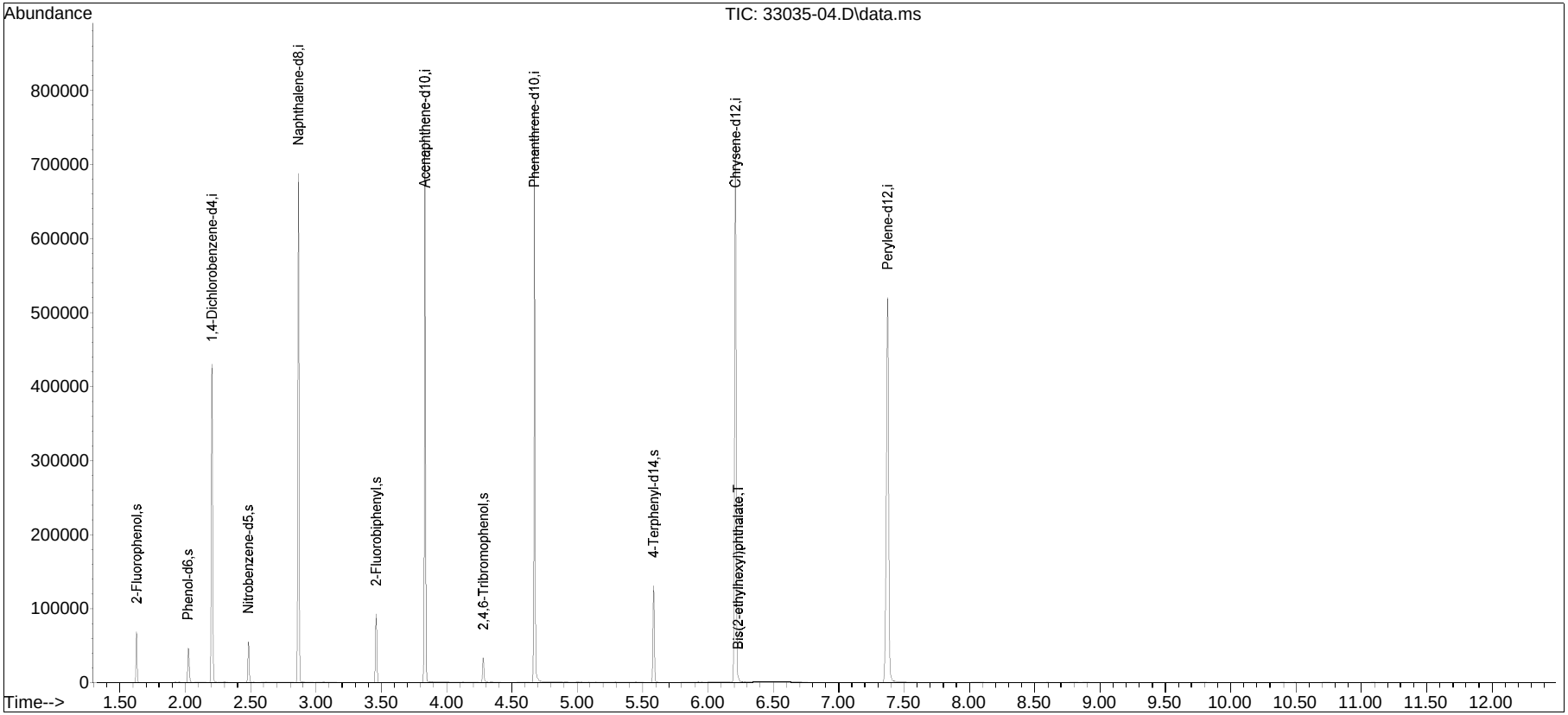
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-04.D
Acq On : 18 Jun 2024 12:46 pm
Operator : SV120:sbc
Sample : L2433035-04,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 15:07:42 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 01:02 pm
Operator : SV120:sbc
Sample : L2433035-05,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 14:17:40 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.205	152	102757	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 98.72%			
8) Naphthalene-d8	2.864	136	378646	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 98.86%			
17) Acenaphthene-d10	3.834	164	214285	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 97.23%			
22) Phenanthrene-d10	4.671	188	463081	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 98.80%			
31) Chrysene-d12	6.208	240	437918	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 102.43%			
36) Perylene-d12	7.377	264	459433	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 99.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.624	112	7844	256.839	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 12.84%#			
3) Phenol-d6	2.021	99	12091	329.354	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 16.47%			
7) Nitrobenzene-d5	2.483	82	20063	613.388	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 61.34%			
13) 2-Fluorobiphenyl	3.460	172	48550	603.016	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 60.30%			
21) 2,4,6-Tribromophenol	4.279	330	4933	341.865	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 17.09%			
30) 4-Terphenyl-d14	5.582	244	71226	755.940	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 37.80%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.		
24) Hexachlorobenzene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 01:02 pm
Operator : SV120:sbc
Sample : L2433035-05,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 14:17:40 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

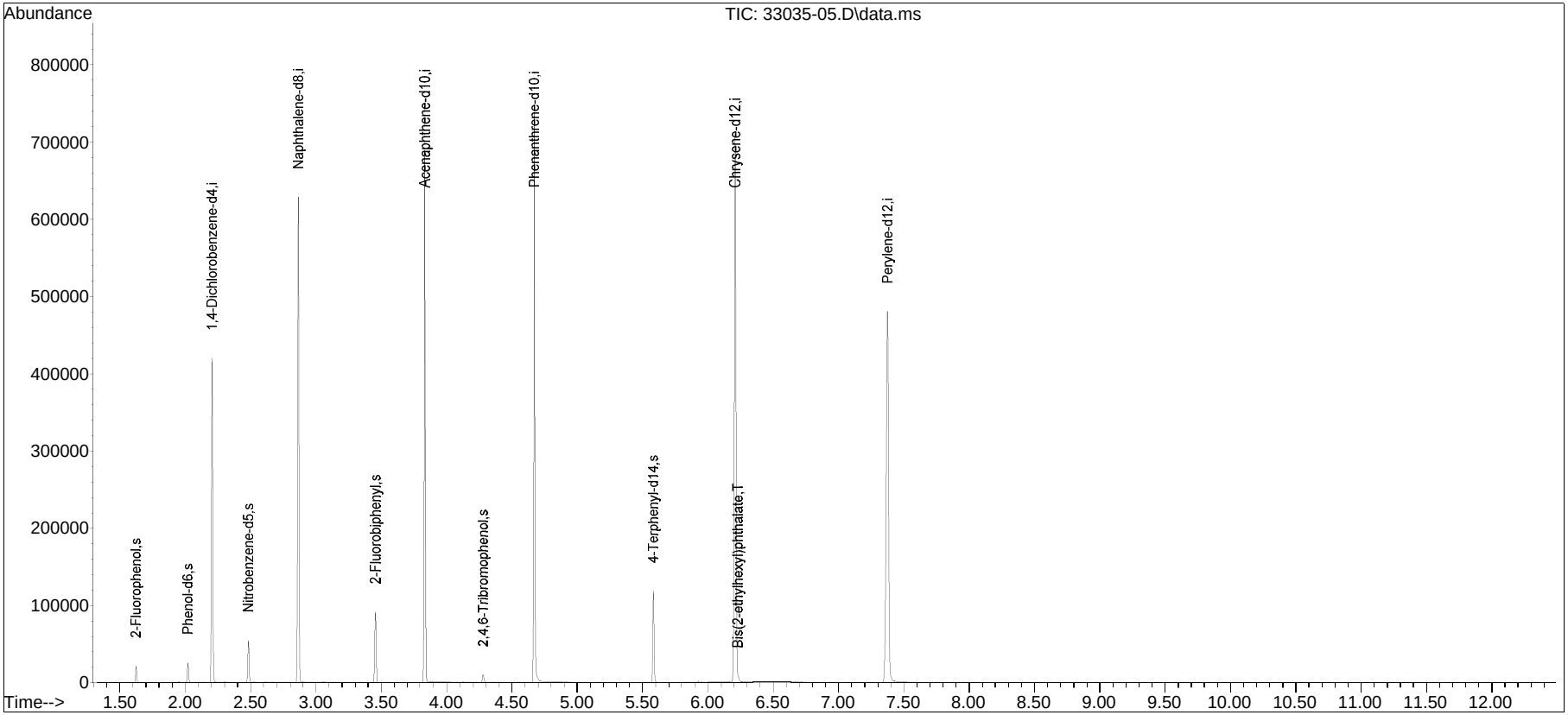
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-05.D
Acq On : 18 Jun 2024 01:02 pm
Operator : SV120:sbc
Sample : L2433035-05,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 14:17:40 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 01:18 pm
Operator : SV120:sbc
Sample : L2433035-06,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 14:24:36 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	108261	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery	= 104.01%		
8) Naphthalene-d8	2.863	136	400155	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery	= 104.47%		
17) Acenaphthene-d10	3.836	164	226216	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery	= 102.64%		
22) Phenanthrene-d10	4.671	188	486146	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery	= 103.72%		
31) Chrysene-d12	6.208	240	447110	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery	= 104.58%		
36) Perylene-d12	7.374	264	459510	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery	= 99.85%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	15711	488.277	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 24.41%		
3) Phenol-d6	2.021	99	17132	442.944	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 22.15%		
7) Nitrobenzene-d5	2.483	82	19969	579.476	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 57.95%		
13) 2-Fluorobiphenyl	3.459	172	48049	564.715	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 56.47%		
21) 2,4,6-Tribromophenol	4.279	330	9230	602.599	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 30.13%		
30) 4-Terphenyl-d14	5.582	244	73640	744.480	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 37.22%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D. d		
14) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D. d		
20) Fluorene	0.000		0	N.D. d		
24) Hexachlorobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 01:18 pm
Operator : SV120:sbc
Sample : L2433035-06,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 14:24:36 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

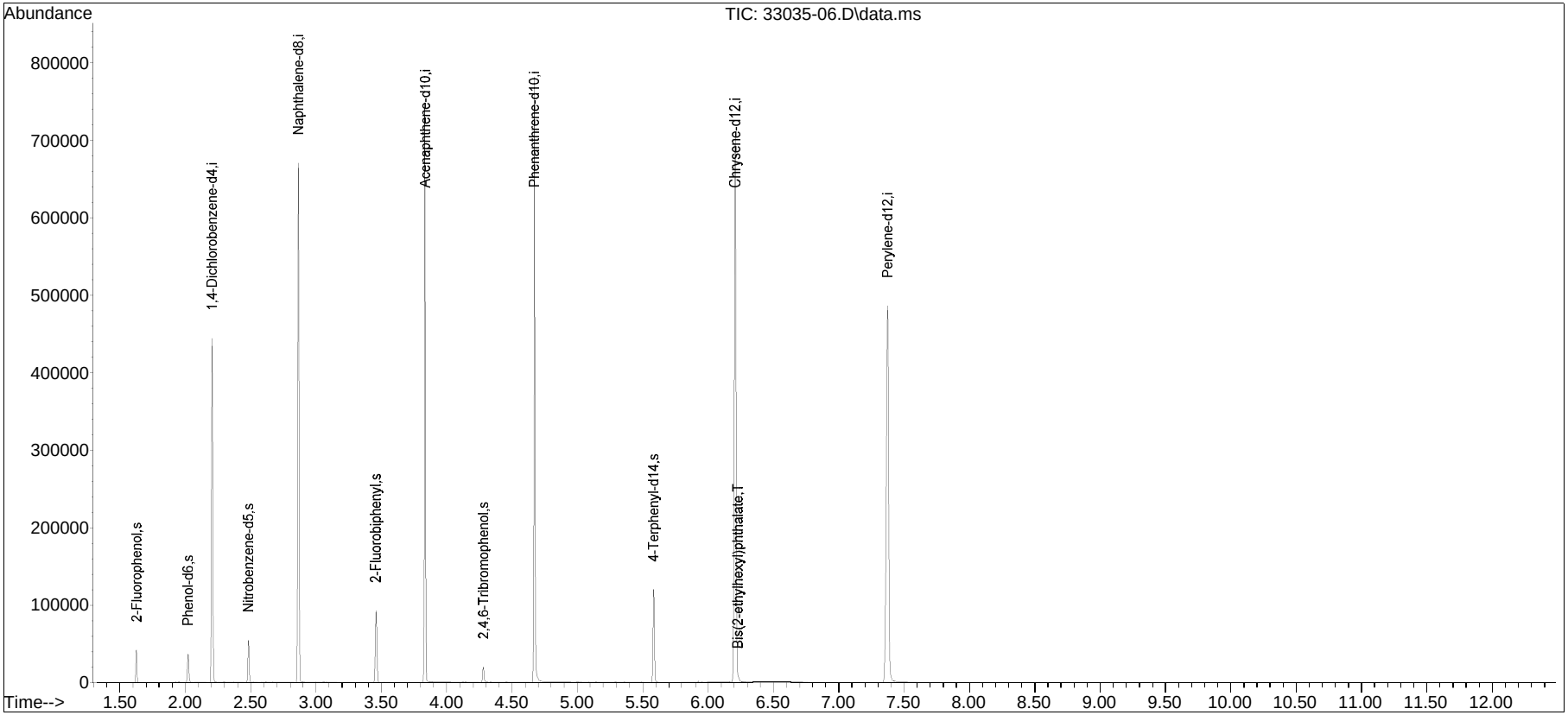
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-06.D
Acq On : 18 Jun 2024 01:18 pm
Operator : SV120:sbc
Sample : L2433035-06,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 14:24:36 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 02:07 pm
Operator : SV120:sbc
Sample : L2433035-09,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 14:32:16 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	83661	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 80.37%			
8) Naphthalene-d8	2.863	136	308001	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 80.41%			
17) Acenaphthene-d10	3.835	164	175570	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 79.66%			
22) Phenanthrene-d10	4.672	188	374889	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 79.98%			
31) Chrysene-d12	6.213	240	347553	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 81.29%			
36) Perylene-d12	7.381	264	355935	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 77.35%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.624	112	10457	420.551	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 21.03%			
3) Phenol-d6	2.020	99	12967	433.840	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 21.69%			
7) Nitrobenzene-d5	2.483	82	20417	766.690	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.67%			
13) 2-Fluorobiphenyl	3.458	172	48883	746.413	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.64%			
21) 2,4,6-Tribromophenol	4.278	330	6738	567.056	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.35%			
30) 4-Terphenyl-d14	5.586	244	65118	853.698	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 42.68%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.		
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 02:07 pm
Operator : SV120:sbc
Sample : L2433035-09,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 14:32:16 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

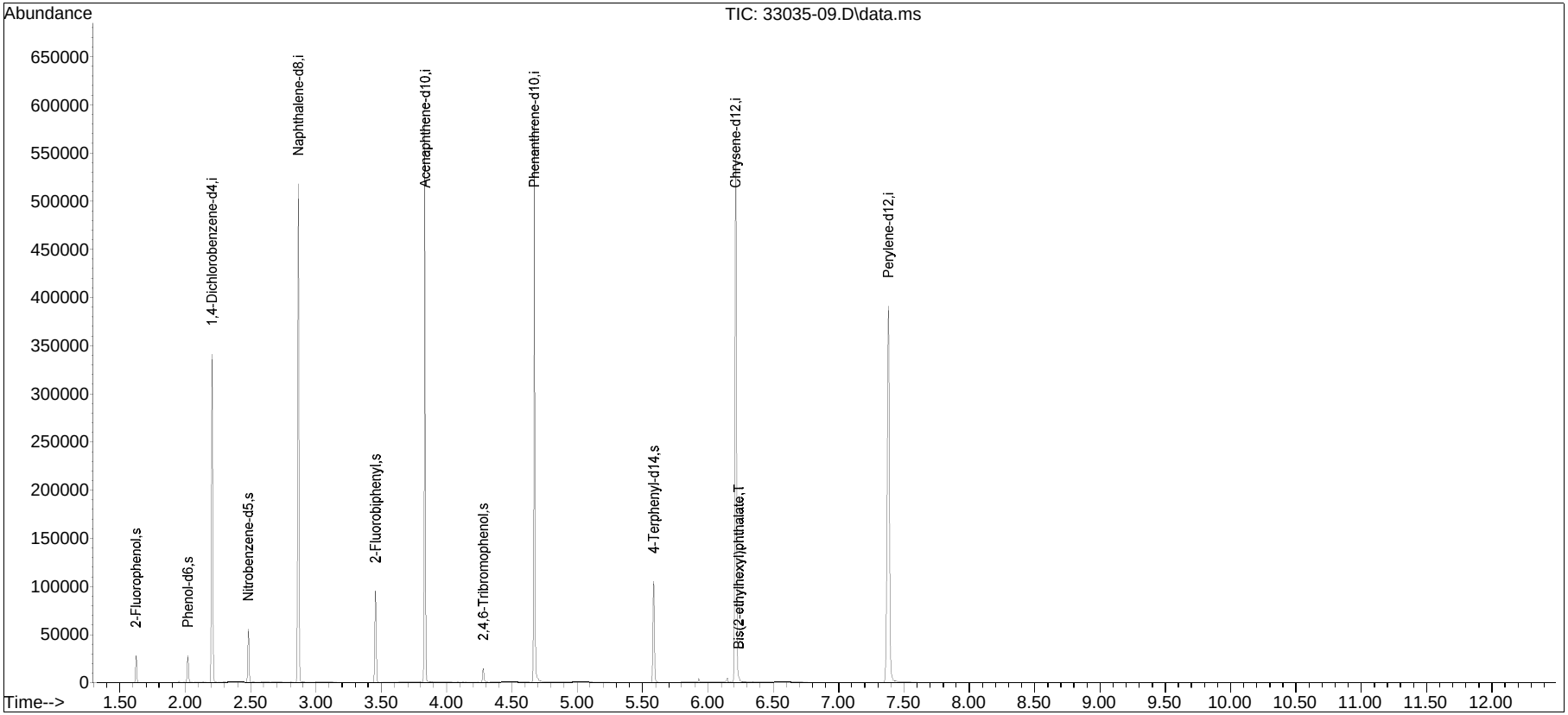
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-09.D
Acq On : 18 Jun 2024 02:07 pm
Operator : SV120:sbc
Sample : L2433035-09,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 14:32:16 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240618RVT	Method	: SIM-RVT_240521_sv120.M
Data File	: 33035-09.D	Operator	: SV120:sbc
Date Inj'd	: 6/18/2024 2:07 pm	Instrument	: SV120
Sample	: L2433035-09,32,,ah	Quant Date	: 6/18/2024 2:21 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 02:24 pm
Operator : SV120:sbc
Sample : L2433035-10,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 14:34:35 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	95809	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery = 92.04%			
8) Naphthalene-d8	2.864	136	355119	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery = 92.71%			
17) Acenaphthene-d10	3.837	164	201894	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery = 91.61%			
22) Phenanthrene-d10	4.671	188	423813	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery = 90.42%			
31) Chrysene-d12	6.211	240	382060	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery = 89.36%			
36) Perylene-d12	7.377	264	389344	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery = 84.61%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.624	112	26341	925.040	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.25%			
3) Phenol-d6	2.021	99	21851	638.378	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.92%			
7) Nitrobenzene-d5	2.483	82	23032	755.225	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 75.52%			
13) 2-Fluorobiphenyl	3.459	172	56400	746.928	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.69%			
21) 2,4,6-Tribromophenol	4.279	330	18173	1324.211	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 66.21%			
30) 4-Terphenyl-d14	5.585	244	75874	879.882	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.99%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D.	
14) 2-Chloronaphthalene	0.000	0	N.D.	
16) Acenaphthylene	0.000	0	N.D.	
18) Acenaphthene	0.000	0	N.D.	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 02:24 pm
Operator : SV120:sbc
Sample : L2433035-10,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 14:34:35 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

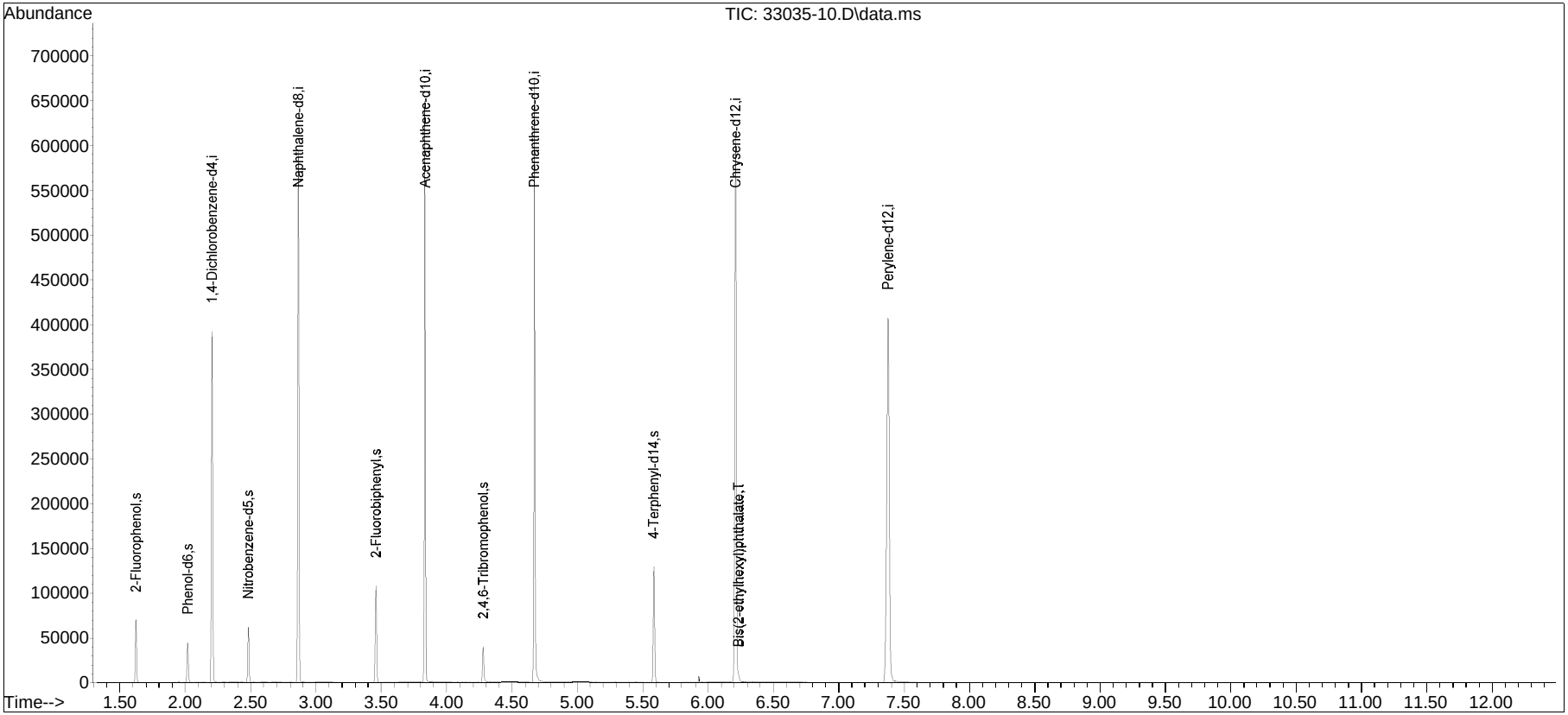
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 33035-10.D
Acq On : 18 Jun 2024 02:24 pm
Operator : SV120:sbc
Sample : L2433035-10,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 14:34:35 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 12:22 pm
Operator : SV120:jjw
Sample : L2433035-07,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 20 13:53:08 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	126172	4000.000	ng/ml	0.03
Standard Area 1 = 132040			Recovery = 95.56%			
8) Naphthalene-d8	2.863	136	476496	4000.000	ng/ml	0.02
Standard Area 1 = 488520			Recovery = 97.54%			
17) Acenaphthene-d10	3.836	164	275296	4000.000	ng/ml	0.02
Standard Area 1 = 278744			Recovery = 98.76%			
22) Phenanthrene-d10	4.673	188	564025	4000.000	ng/ml	0.01
Standard Area 1 = 573885			Recovery = 98.28%			
31) Chrysene-d12	6.213	240	463272M2	4000.000	ng/ml	-0.12
Standard Area 1 = 483963			Recovery = 95.72%			
36) Perylene-d12	7.384	264	494641M2	4000.000	ng/ml	-0.12
Standard Area 1 = 464613			Recovery = 106.46%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.632	112	19543	521.150	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.06%			
3) Phenol-d6	2.024	99	16029	355.595	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 17.78%			
7) Nitrobenzene-d5	2.483	82	17501	435.763	ng/ml	0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 43.58%			
13) 2-Fluorobiphenyl	3.459	172	44014	434.415	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 43.44%			
21) 2,4,6-Tribromophenol	4.279	330	15481	828.893	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.44%			
30) 4-Terphenyl-d14	5.584	244	58398M1	508.869	ng/ml	-0.06
Spiked Amount 2000.000	Range 30 - 130		Recovery = 25.44%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 12:22 pm
Operator : SV120:jjw
Sample : L2433035-07,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 20 13:53:08 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	0.000		0	N.D.		
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.		
34) Chrysene	0.000		0	N.D.		
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

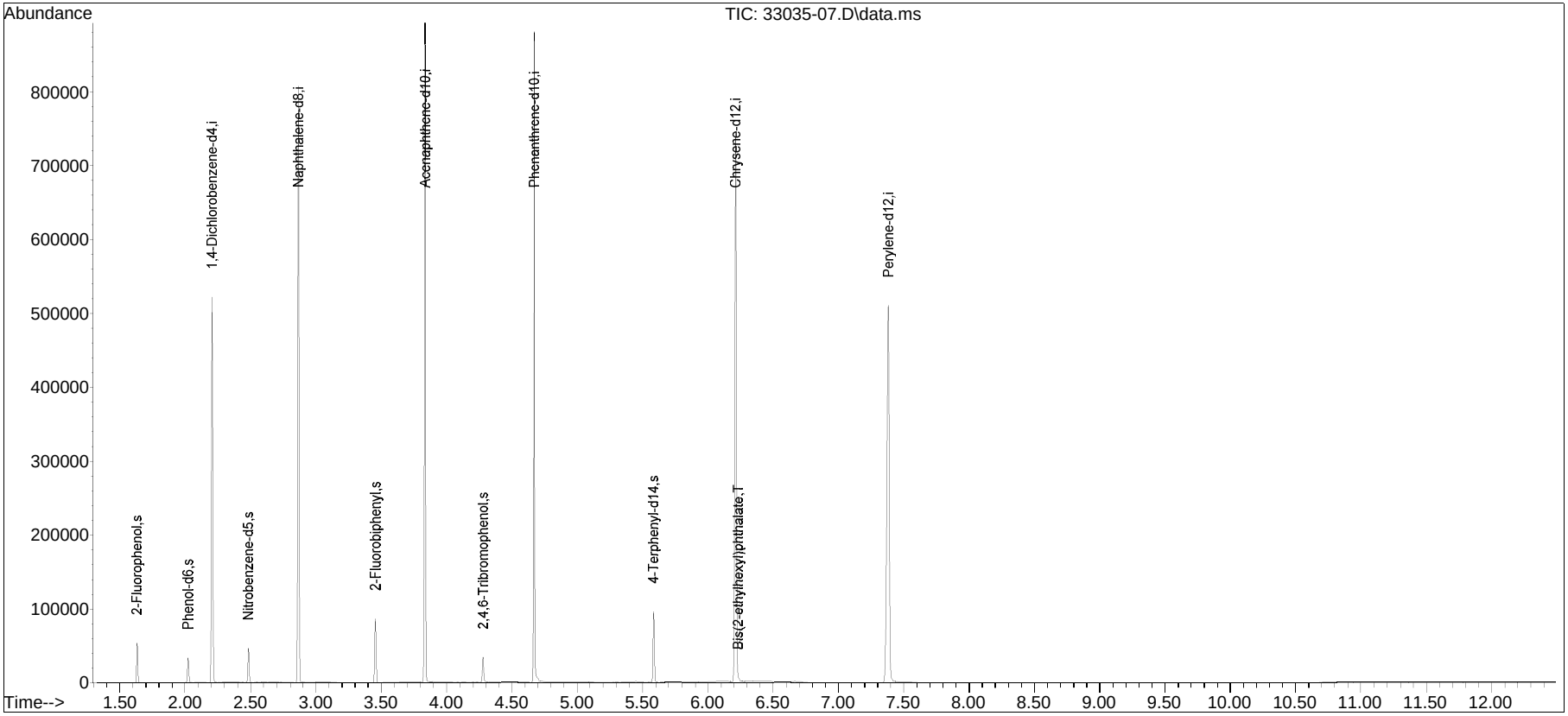
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-07.D
Acq On : 19 Jun 2024 12:22 pm
Operator : SV120:jjw
Sample : L2433035-07,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 20 13:53:08 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•

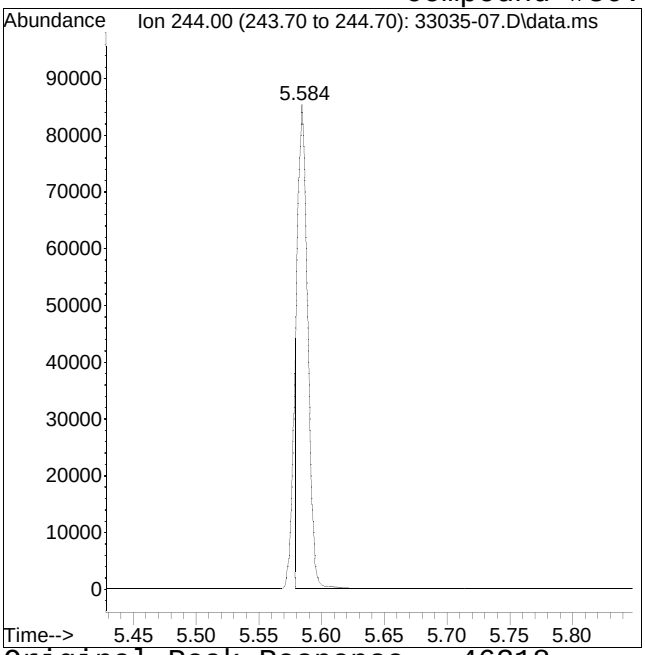


Manual Integration Report

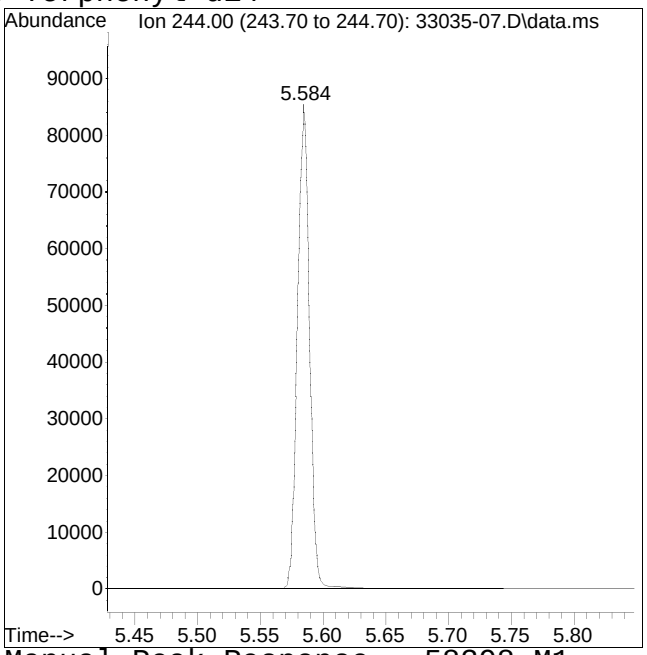
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 33035-07.D
Date Inj'd : 6/19/2024 12:22 pm
Sample : L2433035-07,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 12:35 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 46318



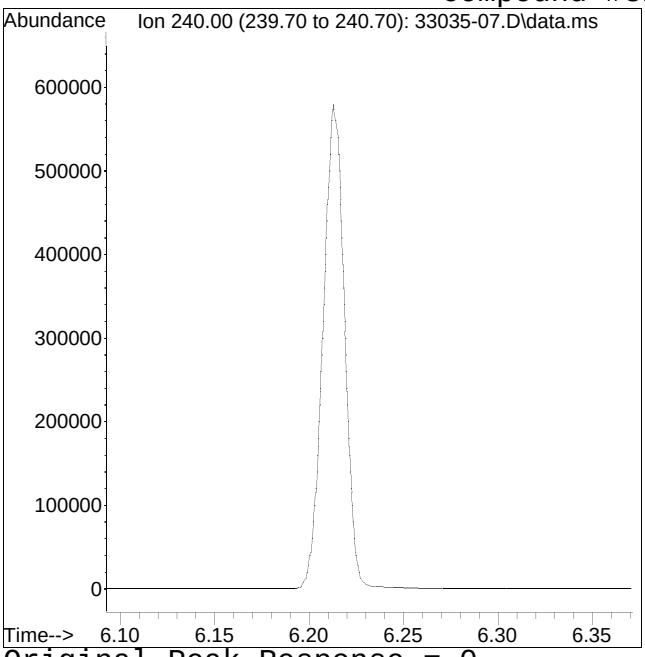
Manual Peak Response = 58398 M1

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

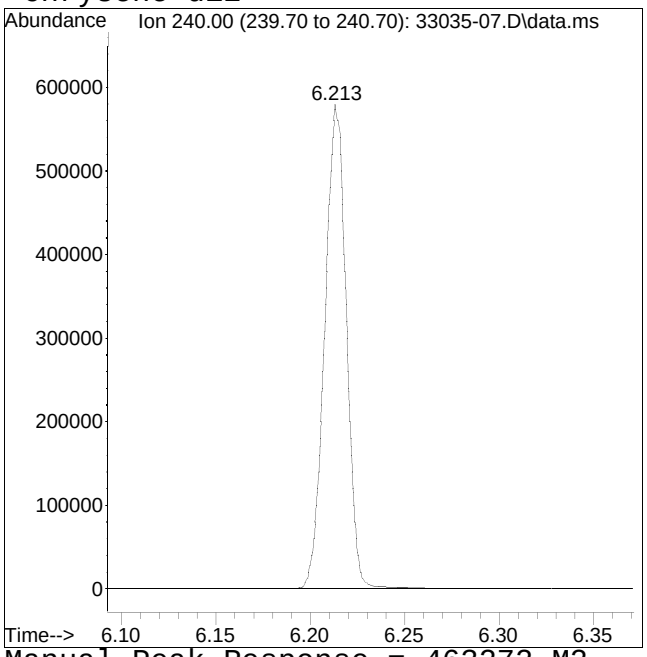
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 33035-07.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 12:22 pm Instrument : SV120
Sample : L2433035-07,32,,jjw Quant Date : 6/19/2024 12:35 pm

Compound #31: Chrysene-d12



Original Peak Response = 0



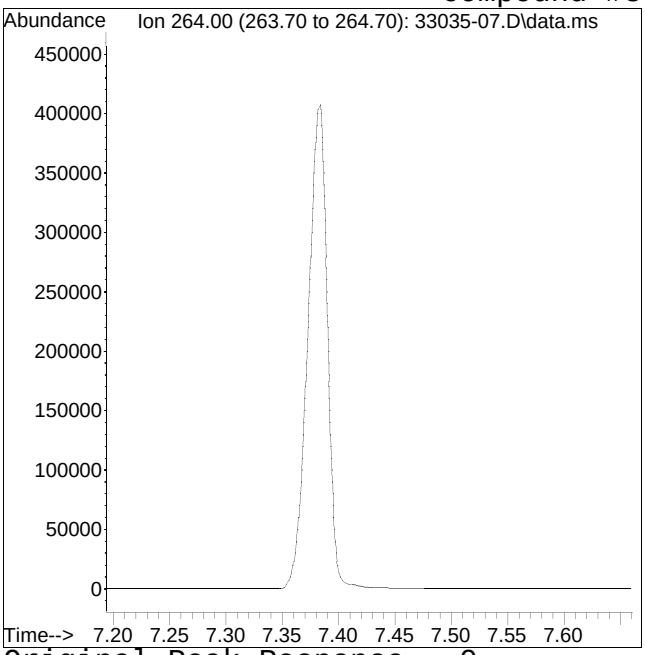
Manual Peak Response = 463272 M2

M2 = Peak not found by automatic integration algorithm.

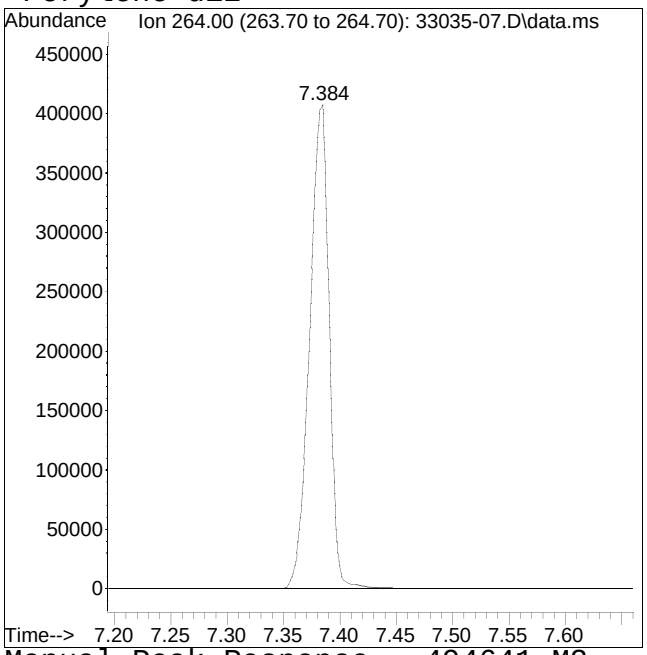
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 33035-07.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 12:22 pm Instrument : SV120
Sample : L2433035-07,32,,jjw Quant Date : 6/19/2024 12:35 pm

Compound #36: Perylene-d12



Original Peak Response = 0



Manual Peak Response = 494641 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 12:38 pm
Operator : SV120:jjw
Sample : L2433035-08,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 13:26:39 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	120528	4000.000	ng/ml	0.03
Standard Area 1 = 132040			Recovery = 91.28%			
8) Naphthalene-d8	2.864	136	446735	4000.000	ng/ml	0.02
Standard Area 1 = 488520			Recovery = 91.45%			
17) Acenaphthene-d10	3.837	164	258896	4000.000	ng/ml	0.02
Standard Area 1 = 278744			Recovery = 92.88%			
22) Phenanthrene-d10	4.671	188	538500	4000.000	ng/ml	0.00
Standard Area 1 = 573885			Recovery = 93.83%			
31) Chrysene-d12	6.216	240	455118M2	4000.000	ng/ml	-0.12
Standard Area 1 = 483963			Recovery = 94.04%			
36) Perylene-d12	7.385	264	453366M2	4000.000	ng/ml	-0.12
Standard Area 1 = 464613			Recovery = 97.58%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.634	112	23717	662.073	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.10%			
3) Phenol-d6	2.024	99	19149	444.704	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.24%			
7) Nitrobenzene-d5	2.483	82	21023	547.971	ng/ml	0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 54.80%			
13) 2-Fluorobiphenyl	3.456	172	51489	542.048	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 54.20%			
21) 2,4,6-Tribromophenol	4.279	330	18266	1038.868	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.94%			
30) 4-Terphenyl-d14	5.585	244	71713M1	654.513	ng/ml	-0.05
Spiked Amount 2000.000	Range 30 - 130		Recovery = 32.73%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D. d		
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.		

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 12:38 pm
Operator : SV120:jjw
Sample : L2433035-08,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 13:26:39 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	0.000		0	N.D.		
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.		d
27) Anthracene	0.000		0	N.D.		d
28) Fluoranthene	0.000		0	N.D.		d
29) Pyrene	0.000		0	N.D.		d
32) Benzo[a]anthracene	0.000		0	N.D.		
34) Chrysene	0.000		0	N.D.		
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.		d
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

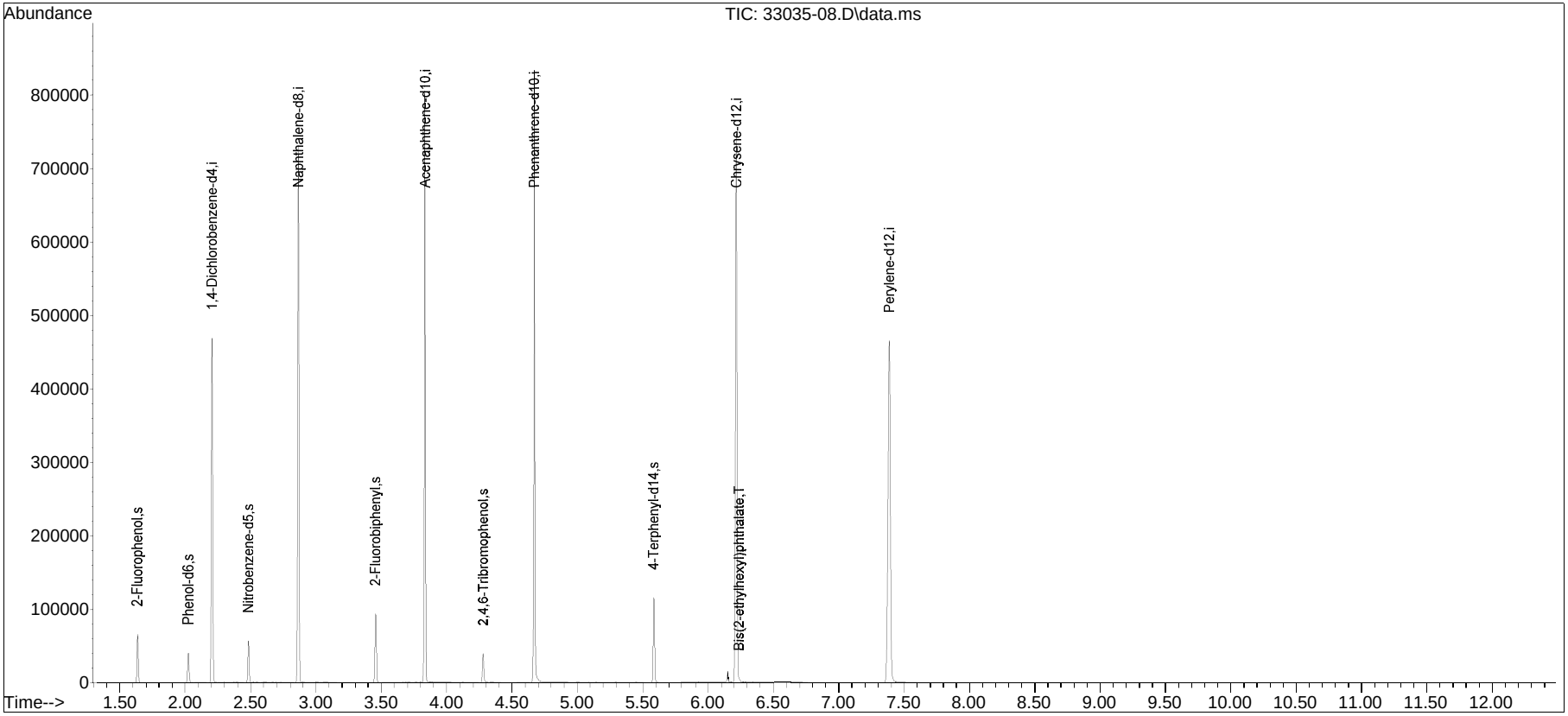
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 33035-08.D
Acq On : 19 Jun 2024 12:38 pm
Operator : SV120:jjw
Sample : L2433035-08,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 13:26:39 2024
Quant Method : I:\8270sim\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•

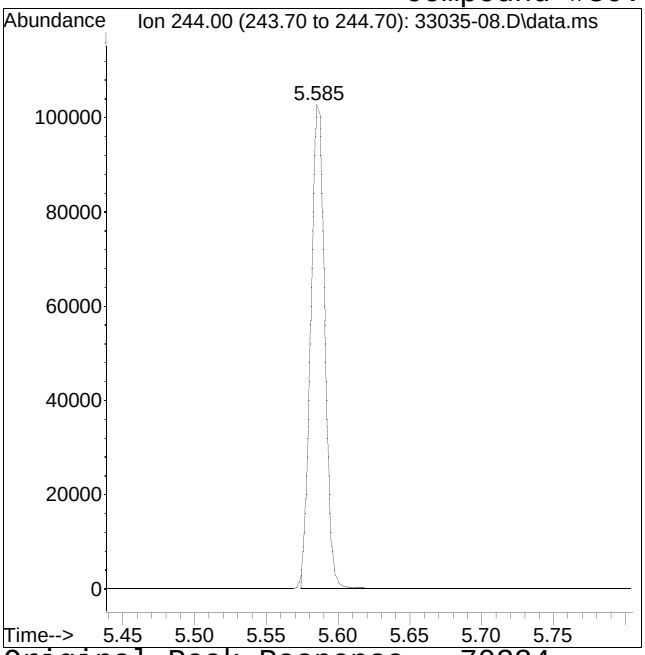


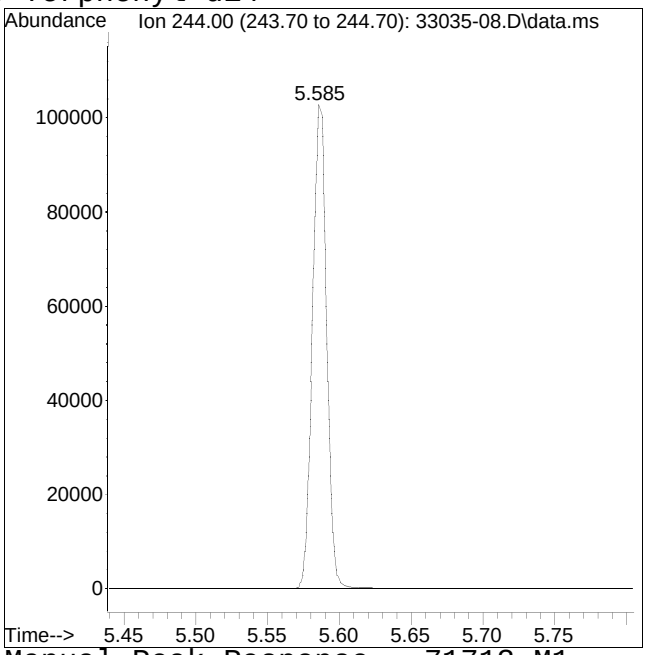
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 33035-08.D
Date Inj'd : 6/19/2024 12:38 pm
Sample : L2433035-08,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 12:51 pm

Compound #30: 4-Terphenyl-d14





Original Peak Response = 70334 Manual Peak Response = 71713 M1

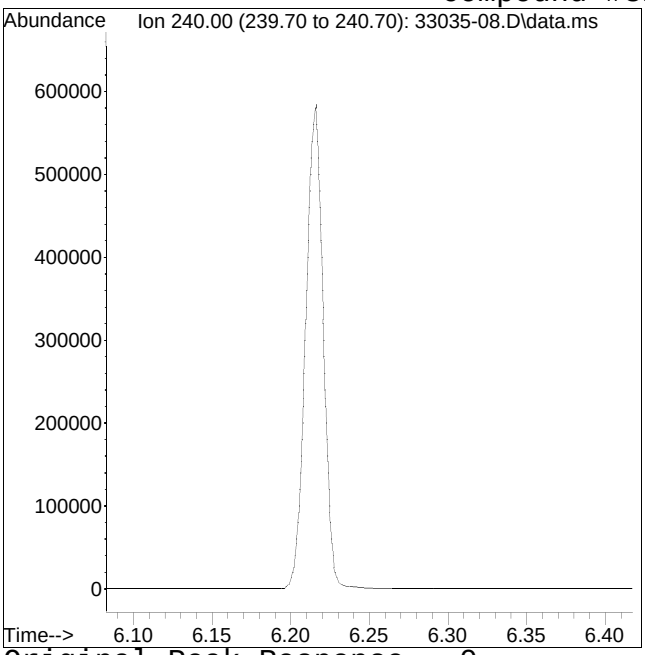
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

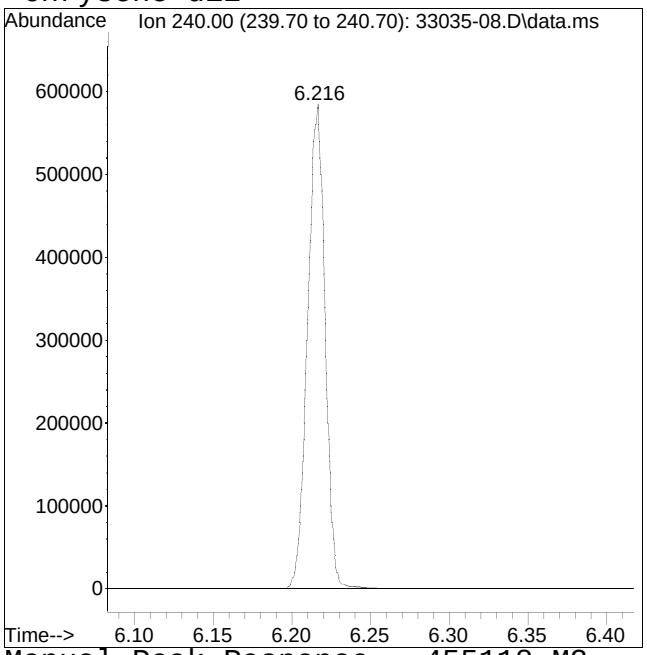
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 33035-08.D
Date Inj'd : 6/19/2024 12:38 pm
Sample : L2433035-08,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 12:51 pm

Compound #31: Chrysene-d12



Original Peak Response = 0



Manual Peak Response = 455118 M2

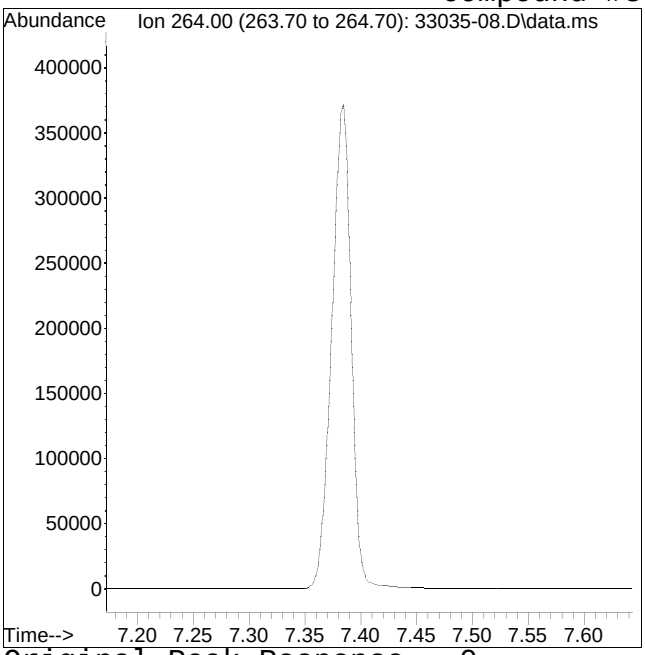
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

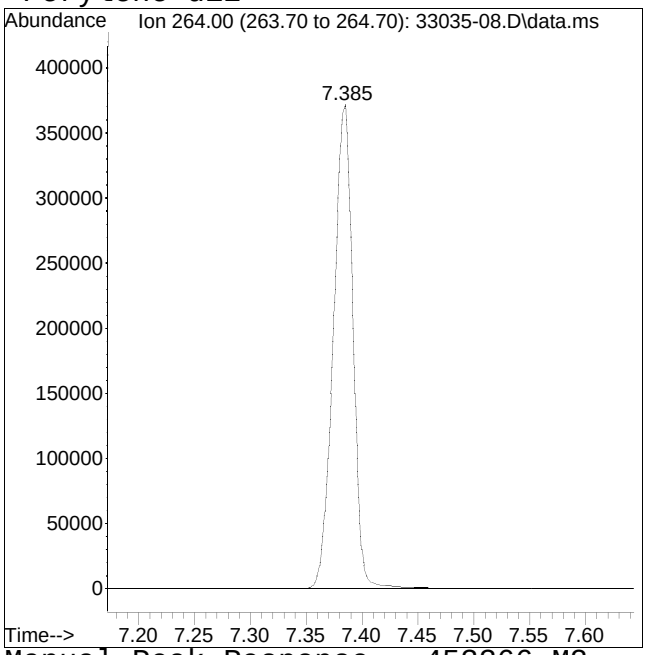
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 33035-08.D
Date Inj'd : 6/19/2024 12:38 pm
Sample : L2433035-08,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 12:51 pm

Compound #36: Perylene-d12



Original Peak Response = 0



Manual Peak Response = 453366 M2

M2 = Peak not found by automatic integration algorithm.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.134	1.209	1.168	1.143	1.189	1.189	1.218	1.262	1.223	1.153	1.189	3.38
3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
4)	T	bis(2-Chloroethyl)ether		1.365	1.248	1.232	1.267	1.223	1.289	1.279	1.224	1.240	1.263	3.55
5)	T	n-Nitrosodi-n-propylamine		0.806	0.796	0.784	0.817	0.834	0.916	0.942	0.948	0.953	0.866	8.28
6)	t	Hexachloroethane		0.598	0.567	0.561	0.569	0.560	0.573	0.592	0.575	0.557	0.572	2.50
7)	s	Nitrobenzene-d5		1.248	1.157	1.143	1.218	1.233	1.358	1.370	1.372	1.361	1.273	7.33
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.297	1.229	1.111	1.098	1.119	1.090	1.118	1.122	1.085	1.038	1.131	6.67
10)	t	Hexachlorobutadiene		0.235	0.207	0.218	0.223	0.217	0.216	0.221	0.211	0.200	0.216	4.60
11)	t	2-Methylnaphthalene	0.705	0.723	0.672	0.673	0.704	0.696	0.734	0.736	0.715	0.695	0.705	3.16
12)	t	1-Methylnaphthalene	0.691	0.708	0.638	0.632	0.657	0.653	0.683	0.680	0.658	0.641	0.664	3.80
13)	s	2-Fluorobiphenyl	0.890	0.880	0.820	0.817	0.856	0.850	0.888	0.865	0.830	0.808	0.851	3.58
14)	t	2-Chloronaphthalene		0.745	0.690	0.692	0.723	0.717	0.751	0.743	0.719	0.708	0.721	3.07
15)	t	2,6-Dinitrotoluene					0.123	0.131	0.169	0.174	0.182	0.185	*L	0.9994
16)	t	Acenaphthylene	1.026	1.001	0.940	0.937	1.012	1.038	1.185	1.176	1.155	1.142	1.061	8.97
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.429	1.406	1.317	1.379	1.391	1.364	1.391	1.399	1.359	1.290	1.372	3.06
19)	t	2,4-Dinitrotoluene					0.279	0.312	0.426	0.442	0.463	0.450	*L	0.9995
20)	t	Fluorene	1.603	1.526	1.367	1.348	1.435	1.457	1.566	1.535	1.516	1.442	1.479	5.67
21)	s	2,4,6-Tribromophenol			0.148	0.159	0.181	0.207	0.267	0.272	0.282	0.270	*L	0.9988
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
24)	t	Hexachlorobenzene	0.320	0.312	0.272	0.277	0.287	0.286	0.289	0.297	0.278	0.263	0.288	6.13
25)	t	Pentachlorophenol					0.038	0.063	0.132	0.160	0.174	0.174	*L	0.9973
26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
27)	t	Anthracene	1.248	1.079	1.013	1.011	1.062	1.078	1.165	1.179	1.170	1.108	1.111	6.96
28)	t	Fluoranthene	1.394	1.208	1.095	1.074	1.143	1.144	1.312	1.272	1.305	1.251	1.220	8.58
29)	t	Pyrene	1.428	1.281	1.121	1.086	1.168	1.192	1.408	1.326	1.363	1.276	1.265	9.44
30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		7.698	3.677	2.479	1.646	1.474	1.517	1.598	1.573	1.499	*L	0.9991
33)	t	3,3'-Dichlorobenzene					0.404	0.430	0.535	0.590	0.631	0.608	0.533	17.91
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21160**
Calibration dates	**: 05/21/24 10:37 05/22/24 13:32**		

Calibration Files

L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D

L9 =IL9.D L10 =IL10a.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38) t	Benzo[k]fluoranthene	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39) t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40) t	Indeno[1,2,3-cd]pyrene	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41) t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42) t	Benzo[g,h,i]perylene	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10a.D

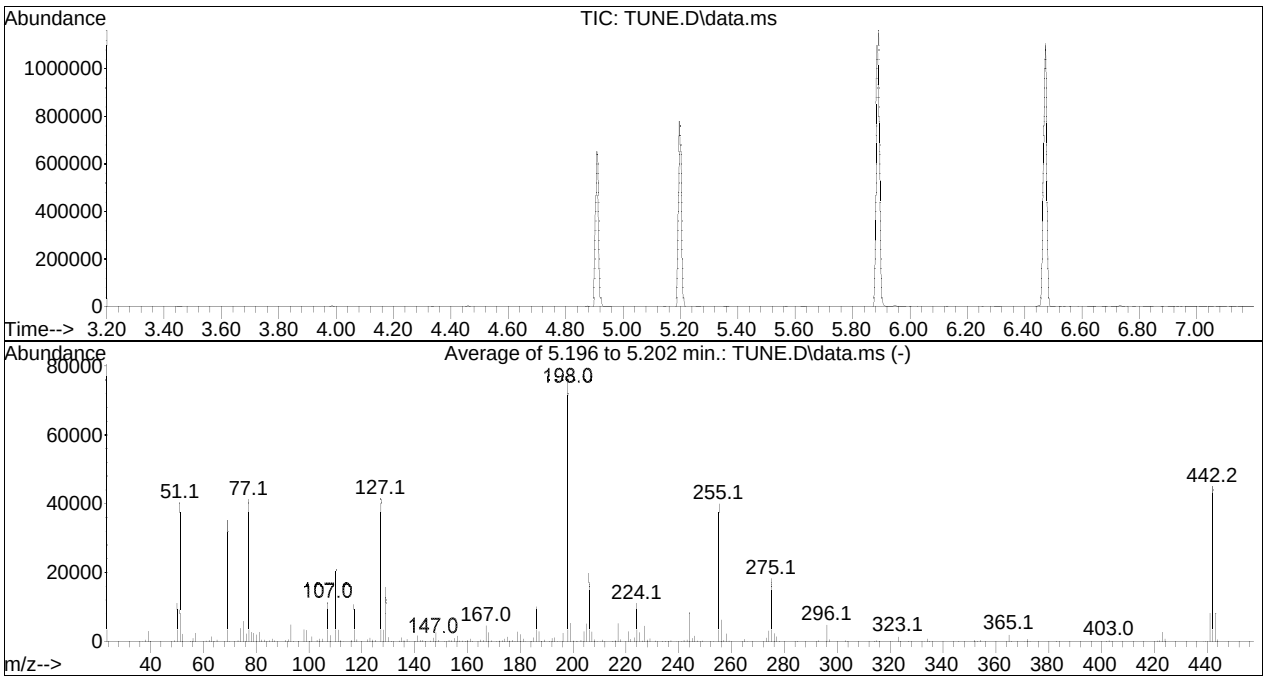
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.134	1.209	1.168	1.143	1.189	1.189	1.218	1.262	1.223	1.153	1.189	3.38
3)	s	Phenol-d6	1.418	1.417	1.351	1.323	1.390	1.404	1.478	1.531	1.502	1.477	1.429	4.67
4)	T	bis(2-Chloroethyl)ether		1.365	1.248	1.232	1.267	1.223	1.289	1.279	1.224	1.240	1.263	3.55
5)	T	n-Nitrosodi-n-propylamine		0.806	0.796	0.784	0.817	0.834	0.916	0.942	0.948	0.953	0.866	8.28
6)	t	Hexachloroethane		0.598	0.567	0.561	0.569	0.560	0.573	0.592	0.575	0.557	0.572	2.50
7)	s	Nitrobenzene-d5		1.248	1.157	1.143	1.218	1.233	1.358	1.370	1.372	1.361	1.273	7.33
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.297	1.229	1.111	1.098	1.119	1.090	1.118	1.122	1.085	1.038	1.131	6.67
10)	t	Hexachlorobutadiene		0.235	0.207	0.218	0.223	0.217	0.216	0.221	0.211	0.200	0.216	4.60
11)	t	2-Methylnaphthalene	0.705	0.723	0.672	0.673	0.704	0.696	0.734	0.736	0.715	0.695	0.705	3.16
12)	t	1-Methylnaphthalene	0.691	0.708	0.638	0.632	0.657	0.653	0.683	0.680	0.658	0.641	0.664	3.80
13)	s	2-Fluorobiphenyl	0.890	0.880	0.820	0.817	0.856	0.850	0.888	0.865	0.830	0.808	0.851	3.58
14)	t	2-Chloronaphthalene		0.745	0.690	0.692	0.723	0.717	0.751	0.743	0.719	0.708	0.721	3.07
15)	t	2,6-Dinitrotoluene					0.123	0.131	0.169	0.174	0.182	0.185	*L	0.9994
16)	t	Acenaphthylene	1.026	1.001	0.940	0.937	1.012	1.038	1.185	1.176	1.155	1.142	1.061	8.97
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.429	1.406	1.317	1.379	1.391	1.364	1.391	1.399	1.359	1.290	1.372	3.06
19)	t	2,4-Dinitrotoluene					0.279	0.312	0.426	0.442	0.463	0.450	*L	0.9995
20)	t	Fluorene	1.603	1.526	1.367	1.348	1.435	1.457	1.566	1.535	1.516	1.442	1.479	5.67
21)	s	2,4,6-Tribromophenol			0.148	0.159	0.181	0.207	0.267	0.272	0.282	0.270	*L	0.9988
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.051	0.062	0.101	0.118	0.127	0.125	*Q	0.9985
24)	t	Hexachlorobenzene	0.320	0.312	0.272	0.277	0.287	0.286	0.289	0.297	0.278	0.263	0.288	6.13
25)	t	Pentachlorophenol					0.038	0.063	0.132	0.160	0.174	0.174	*L	0.9973
26)	t	Phenanthrene	1.027	1.087	1.121	1.111	1.151	1.141	1.190	1.199	1.142	1.077	1.125	4.62
27)	t	Anthracene	1.248	1.079	1.013	1.011	1.062	1.078	1.165	1.179	1.170	1.108	1.111	6.96
28)	t	Fluoranthene	1.394	1.208	1.095	1.074	1.143	1.144	1.312	1.272	1.305	1.251	1.220	8.58
29)	t	Pyrene	1.428	1.281	1.121	1.086	1.168	1.192	1.408	1.326	1.363	1.276	1.265	9.44
30)	s	4-Terphenyl-d14	1.007	0.826	0.770	0.696	0.753	0.761	0.895	0.805	0.819	0.805	0.814	10.57
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		7.698	3.677	2.479	1.646	1.474	1.517	1.598	1.573	1.499	*L	0.9991
33)	t	3,3'-Dichlorob...					0.404	0.430	0.535	0.590	0.631	0.608	0.533	17.91
34)	t	Chrysene	1.412	1.560	1.390	1.378	1.466	1.451	1.519	1.504	1.455	1.363	1.450	4.48
35)	T	bis(2-Ethylhexyl)phthalate					0.574	0.592	0.782	0.922	1.021	1.021	*L	0.9970
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.520	1.324	1.148	1.134	1.188	1.239	1.353	1.491	1.425	1.406	1.323	10.60
38)	t	Benzo[k]fluora...	1.284	1.296	1.068	1.093	1.166	1.185	1.392	1.401	1.419	1.287	1.259	10.06
39)	t	Benzo[a]pyrene	1.167	1.047	0.899	0.885	0.968	0.992	1.182	1.255	1.278	1.231	1.090	13.72
40)	t	Indeno[1,2,3-c...	1.029	1.014	0.851	0.853	0.909	0.903	1.074	1.114	1.275	1.246	1.027	14.86
41)	t	Dibenzo[a,h]anthracene	0.941	0.890	0.785	0.803	0.894	0.911	1.094	1.119	1.217	1.179	0.983	15.87
42)	t	Benzo[g,h,i]pe...	1.059	1.063	0.876	0.890	0.958	0.958	1.115	1.117	1.222	1.188	1.045	11.50

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



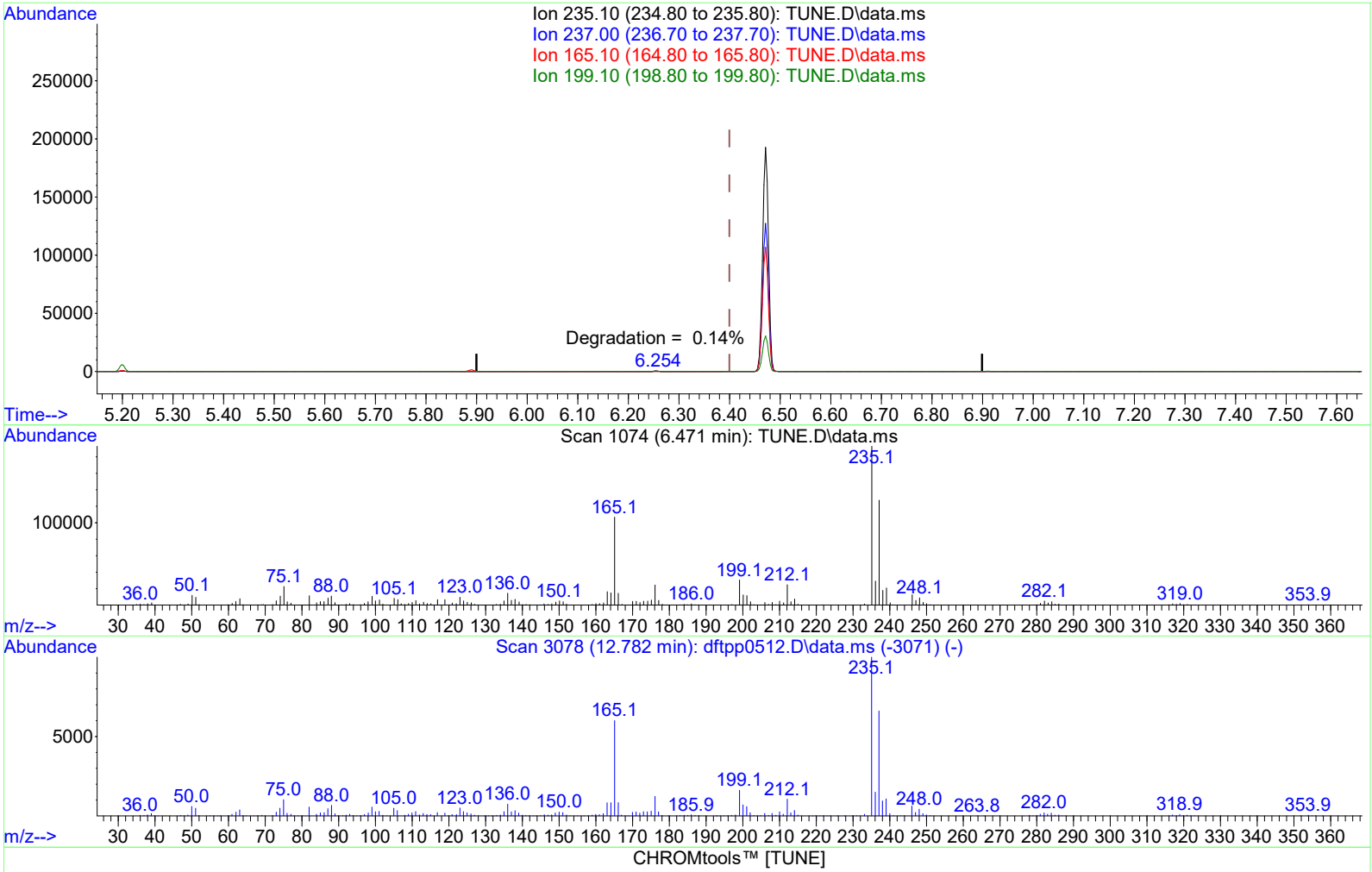
Spectrum Information: Average of 5.196 to 5.202 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.6	40336	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	34992	PASS
70	69	0.00	2	0.5	181	PASS
127	198	10	80	54.1	41488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	76683	PASS
199	198	5	9	6.8	5226	PASS
275	198	10	60	23.7	18193	PASS
365	198	1	100	2.6	2001	PASS
441	442	0.01	24	17.9	8016	PASS
442	198	50	100	58.5	44856	PASS
443	442	15	24	18.5	8298	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(6) ddt (T)

6.471min (+ 0.071) 25.30

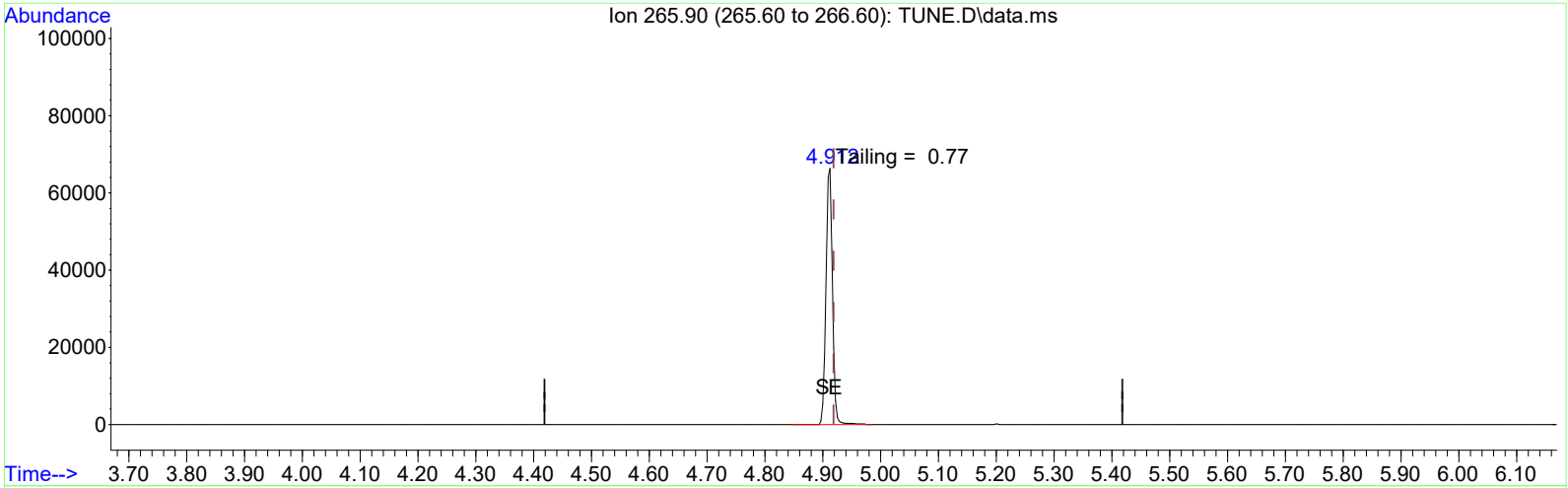
response 154194

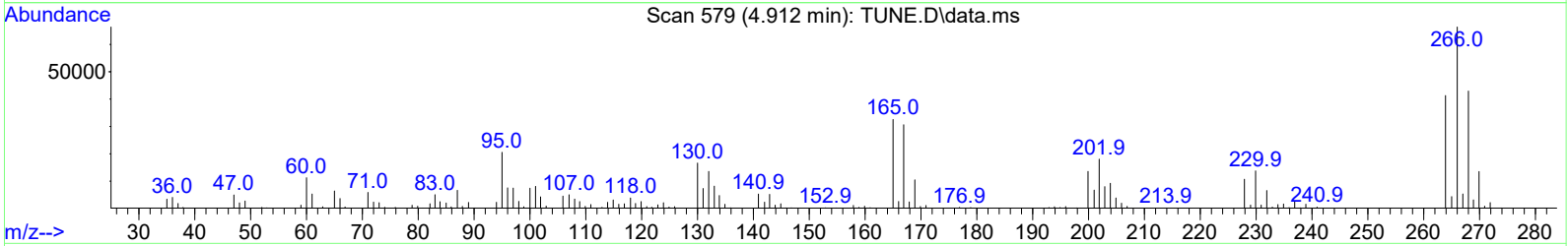
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.41
165.10	53.30	55.59
199.10	17.10	16.03

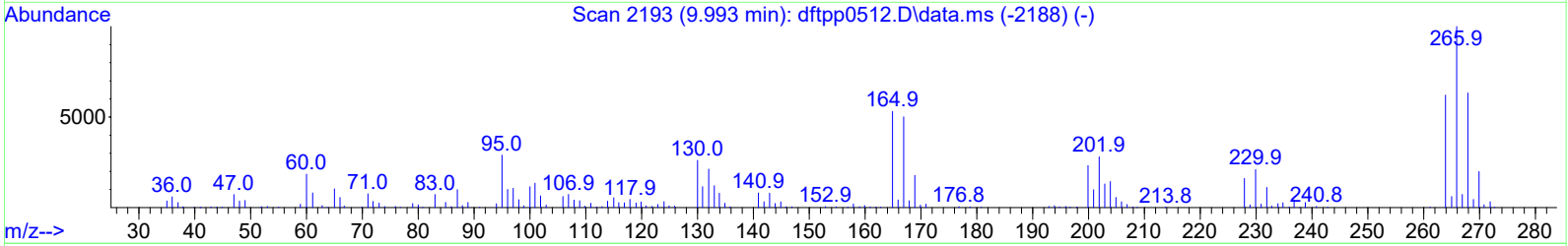
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.912min (-0.007) 24.70

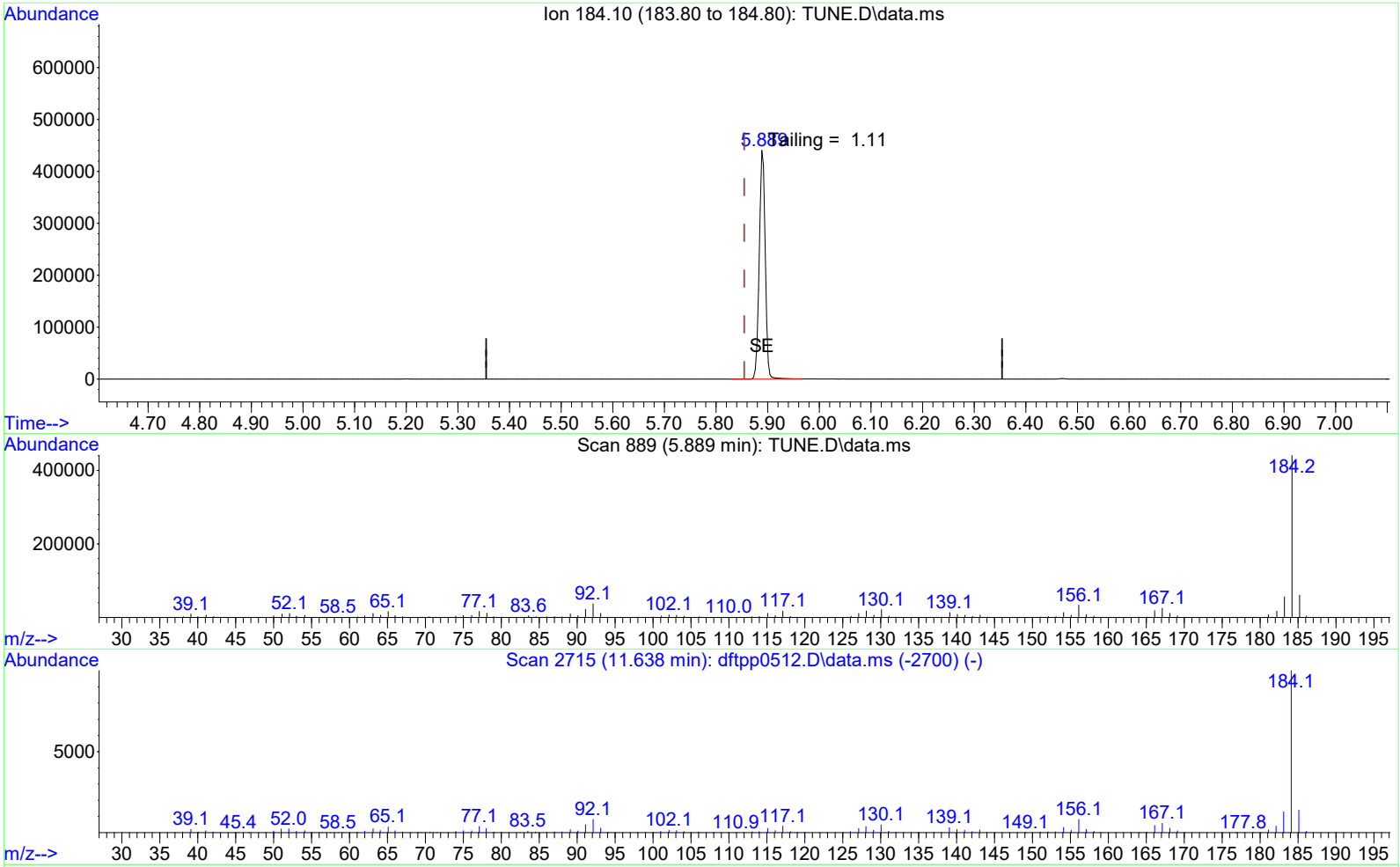
response 51883

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNE.D
Acq On : 21 May 2024 09:54 am
Operator : SV120:dv
Sample : TUNE
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 21 10:11:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(3) benzidine (T)

5.889min (+ 0.034) 34.89

response 355226

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	131348	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 72.66%			
8) Naphthalene-d8	2.938	136	483451	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 73.53%			
17) Acenaphthene-d10	3.924	164	263243	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.53%			
22) Phenanthrene-d10	4.770	188	536485	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.23%			
31) Chrysene-d12	6.362	240	458051	4000.000	ng/ml	0.01
Standard Area 1 = 509536			Recovery = 89.90%			
36) Perylene-d12	7.611	264	500111	4000.000	ng/ml	0.01
Standard Area 1 = 492251			Recovery = 101.60%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	100365	2570.948	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.55%#			
3) Phenol-d6	2.081	99	123274	2627.004	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 131.35%#			
7) Nitrobenzene-d5	2.552	82	112621	2693.685	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 269.37%#			
13) 2-Fluorobiphenyl	3.539	172	250740	2439.184	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 243.92%#			
21) 2,4,6-Tribromophenol	4.372	330	46321	2584.558	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 129.23%#			
30) 4-Terphenyl-d14	5.697	244	274699	2516.549	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 125.83%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.135	93	100485	2422.844	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	77788	2735.159	ng/ml	100
6) Hexachloroethane	2.531	117	47194	2511.387	ng/ml	100
9) Naphthalene	2.951	128	327950	2399.868	ng/ml	99
10) Hexachlorobutadiene	3.021	225	63647	2434.780	ng/ml	100
11) 2-Methylnaphthalene	3.333	142	216032	2533.850	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	198760	2476.866	ng/ml	100
14) 2-Chloronaphthalene	3.605	162	217401	2494.851	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	55060	2497.503	ng/ml	97
16) Acenaphthylene	3.841	152	348861	2720.278	ng/ml	100
18) Acenaphthene	3.941	153	223569	2475.249	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.030	165	76151	2563.397	ng/ml	98
20) Fluorene	4.233	166	249390	2561.513	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.262	198	42508	2592.277	ng/ml	99
24) Hexachlorobenzene	4.554	284	93190	2410.801	ng/ml	98
25) Pentachlorophenol	4.663	266	58438	2551.564	ng/ml	100
26) Phenanthrene	4.781	178	382990	2538.938	ng/ml	100
27) Anthracene	4.811	178	392429	2632.982	ng/ml	100
28) Fluoranthene	5.468	202	437700	2675.442	ng/ml	99
29) Pyrene	5.605	202	457115	2694.580	ng/ml	100
32) Benzo[a]anthracene	6.352	228	450446	2574.049	ng/ml	100
33) 3,3'-Dichlorobenzene	6.338	252	180505	2957.215	ng/ml	99
34) Chrysene	6.379	228	416656	2509.470	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.381	149	292212	2555.701	ng/ml	100
37) Benzo[b]fluoranthene	7.226	252	445404	2693.443	ng/ml	100
38) Benzo[k]fluoranthene	7.252	252	443503	2817.107	ng/ml	100
39) Benzo[a]pyrene	7.548	252	399377	2929.781	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.877	276	398403	3103.299	ng/ml	99
41) Dibenzo[a,h]anthracene	8.914	278	380443M6	3094.720	ng/ml	
42) Benzo[g,h,i]perylene	9.230	276	382009	2924.786	ng/ml	99

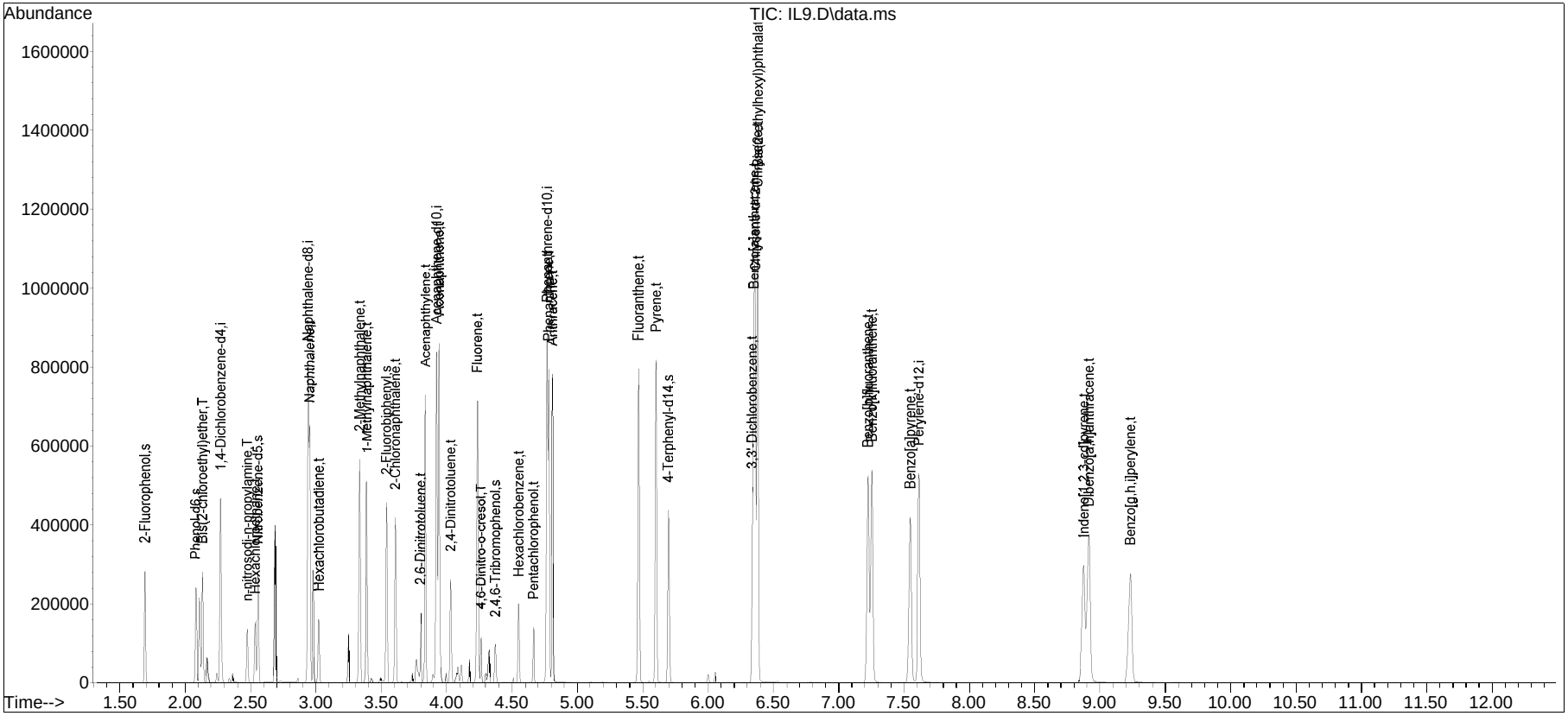
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL9.D
Acq On : 21 May 2024 10:37 am
Operator : SV120:dv
Sample : IL9,32,,2500.0ng/mL lot# 10755
Misc : WG1927083,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 16:02:15 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:55 2024
Response via : Initial Calibration

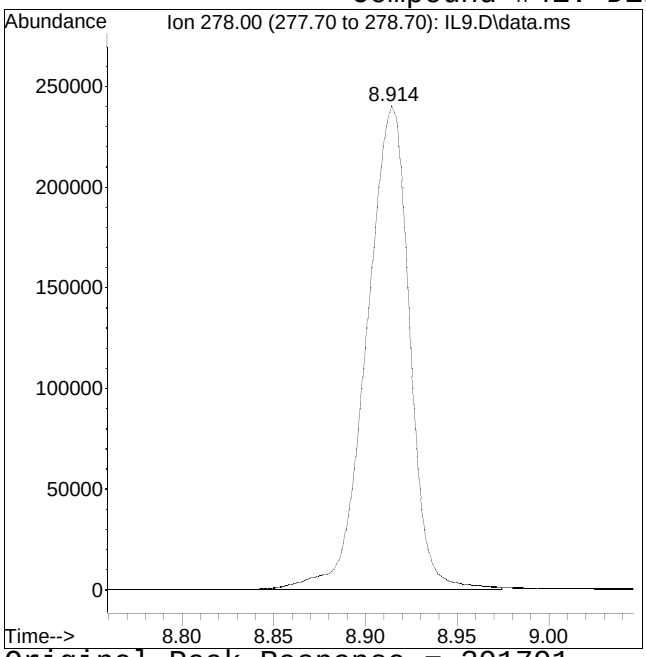
Sub List : Default - All compounds listedical\IL8.D•



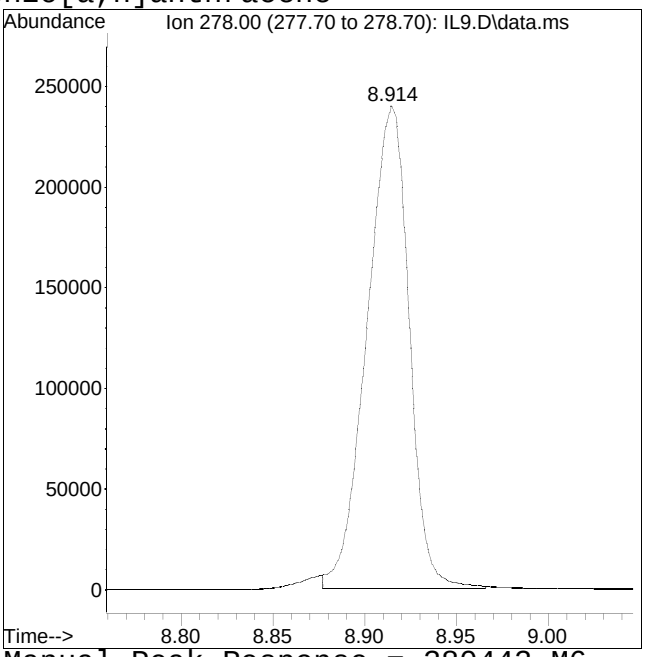
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL9.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:37 am Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 391791



Manual Peak Response = 380443 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.276	152	180763	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 100.00%			
8) Naphthalene-d8	2.941	136	657458	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 100.00%			
17) Acenaphthene-d10	3.924	164	353204	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 100.00%			
22) Phenanthrene-d10	4.769	188	685777	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 100.00%			
31) Chrysene-d12	6.350	240	509536	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 100.00%			
36) Perylene-d12	7.600	264	492251	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	57043	1061.762	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.09%			
3) Phenol-d6	2.088	99	69194	1071.449	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.57%			
7) Nitrobenzene-d5	2.555	82	61911	1075.992	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 107.60%			
13) 2-Fluorobiphenyl	3.542	172	142115	1016.589	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.66%			
21) 2,4,6-Tribromophenol	4.372	330	24059	1003.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.16%			
30) 4-Terphenyl-d14	5.694	244	137979	988.863	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.44%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	57786	1012.420	ng/ml	100
5) n-nitrosodi-n-propylamine	2.474	70	42557	1087.314	ng/ml	100
6) Hexachloroethane	2.534	117	26771	1035.155	ng/ml	100
9) Naphthalene	2.954	128	184426	992.399	ng/ml	100
10) Hexachlorobutadiene	3.024	225	36350	1022.517	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	120966	1043.303	ng/ml	100
12) 1-Methylnaphthalene	3.389	142	111756	1024.068	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	122149	1030.760	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	28608	966.239	ng/ml	100
16) Acenaphthylene	3.844	152	193235	1107.978	ng/ml	100
18) Acenaphthene	3.941	153	123501	1019.082	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	39070	992.757	ng/ml	100
20) Fluorene	4.233	166	135577	1037.851	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	20242	1003.249	ng/ml	100
24) Hexachlorobenzene	4.553	284	50960	1031.327	ng/ml	100
25) Pentachlorophenol	4.665	266	27457	966.229	ng/ml	100
26) Phenanthrene	4.783	178	205501	1065.745	ng/ml	100
27) Anthracene	4.810	178	202184	1061.227	ng/ml	100
28) Fluoranthene	5.465	202	218004	1042.457	ng/ml	100
29) Pyrene	5.598	202	227355	1048.443	ng/ml	100
32) Benzo[a]anthracene	6.340	228	203616	1041.595	ng/ml	100
33) 3,3'-Dichlorobenzene	6.326	252	75155	1106.854	ng/ml	100
34) Chrysene	6.367	228	191595	1037.355	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.367	149	117474	942.425	ng/ml	100
37) Benzo[b]fluoranthene	7.209	252	183529	1127.556	ng/ml	100
38) Benzo[k]fluoranthene	7.235	252	172396	1112.535	ng/ml	100
39) Benzo[a]pyrene	7.531	252	154422	1150.909	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.854	276	137056	1084.623	ng/ml	100
41) Dibenzo[a,h]anthracene	8.892	278	137699M6	1138.000	ng/ml	
42) Benzo[g,h,i]perylene	9.210	276	137422	1068.948	ng/ml	100

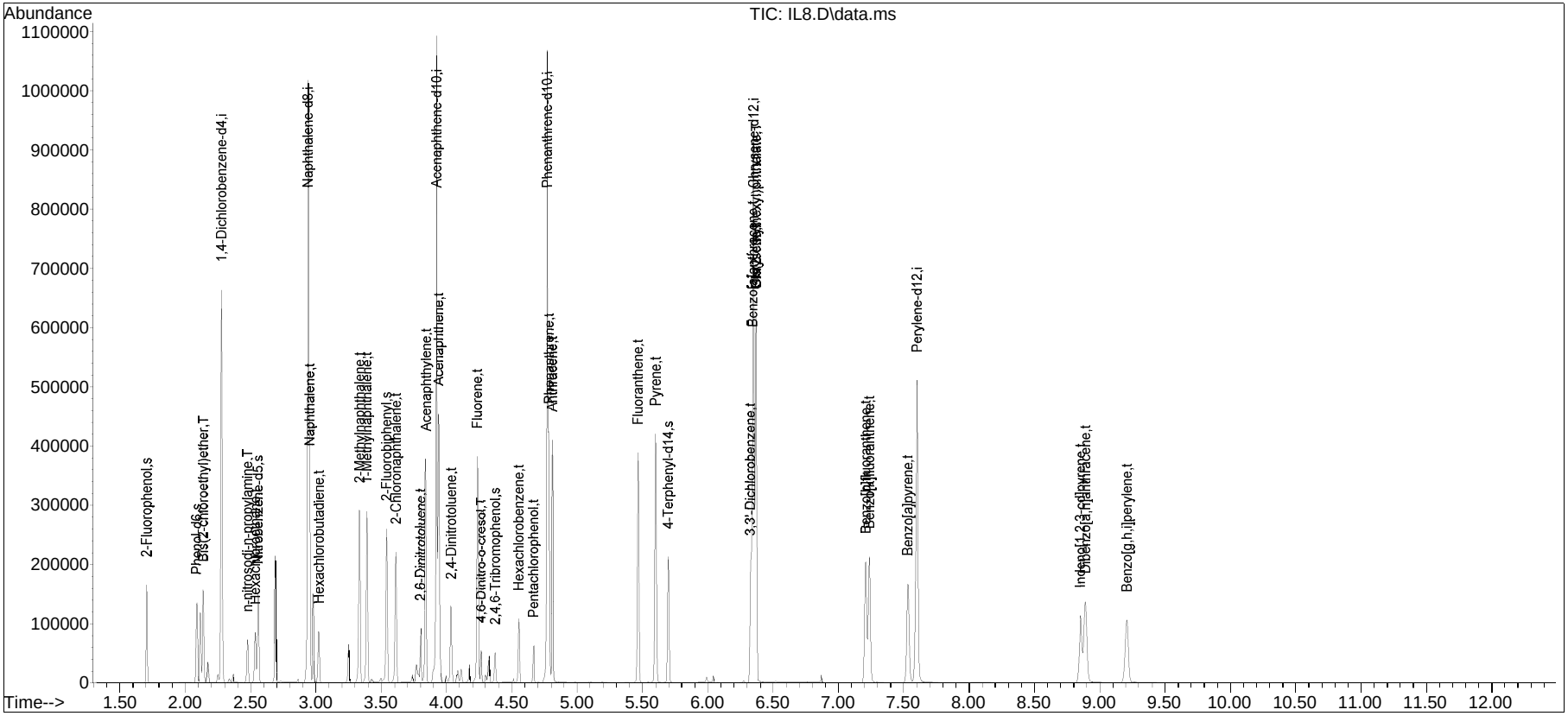
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL8.D
Acq On : 21 May 2024 10:53 am
Operator : SV120:dv
Sample : IL8,32,,1000.0ng/mL lot# 10463
Misc : WG1927083,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 16:02:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:48 2024
Response via : Initial Calibration

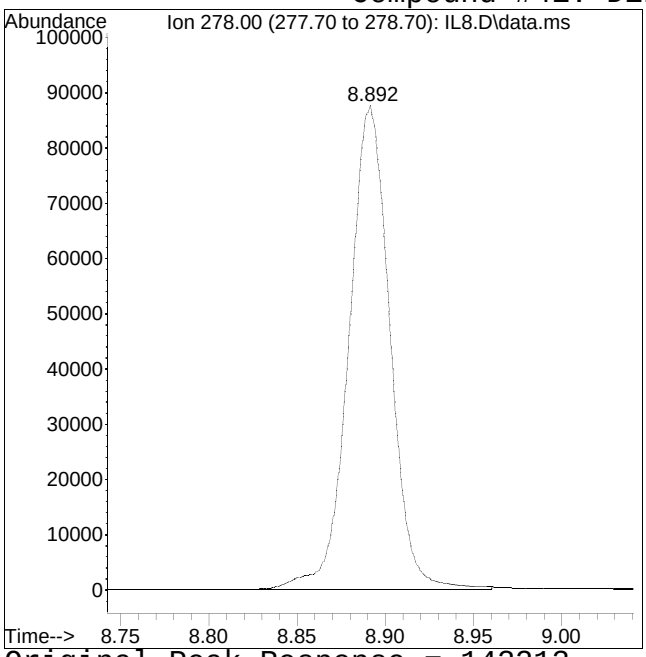
Sub List : Default - All compounds listedical\IL8.D•



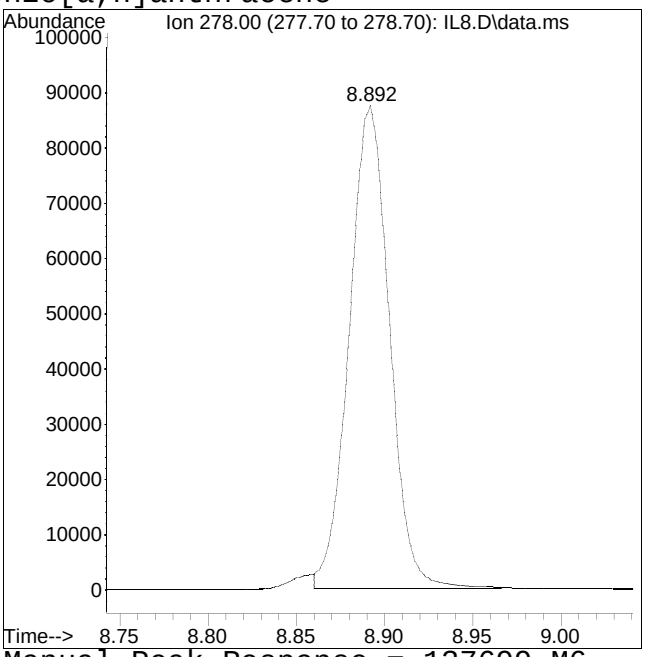
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL8.D Operator : SV120:dv
Date Inj'd : 5/21/2024 10:53 am Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 142213



Manual Peak Response = 137699 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	127479	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 70.52%			
8) Naphthalene-d8	2.943	136	472597	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 71.88%			
17) Acenaphthene-d10	3.924	164	263404	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 74.58%			
22) Phenanthrene-d10	4.769	188	556245	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 81.11%			
31) Chrysene-d12	6.346	240	492291	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 96.62%			
36) Perylene-d12	7.598	264	505627	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 102.72%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.692	112	19416	512.455	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.62%			
3) Phenol-d6	2.084	99	23552	517.132	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.86%			
7) Nitrobenzene-d5	2.555	82	21636	533.199	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 53.32%			
13) 2-Fluorobiphenyl	3.542	172	52459	522.038	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.20%			
21) 2,4,6-Tribromophenol	4.372	330	8787	493.467	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.67%			
30) 4-Terphenyl-d14	5.691	244	62251	550.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 27.50%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.138	93	20539	510.256	ng/ml	99
5) n-nitrosodi-n-propylamine	2.474	70	14595	528.760	ng/ml	99
6) Hexachloroethane	2.534	117	9123	500.207	ng/ml	100
9) Naphthalene	2.954	128	66018	494.201	ng/ml	99
10) Hexachlorobutadiene	3.026	225	12754	499.102	ng/ml	100
11) 2-Methylnaphthalene	3.336	142	43377	520.456	ng/ml	100
12) 1-Methylnaphthalene	3.392	142	40341	514.259	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	44381	521.005	ng/ml	100
15) 2,6-Dinitrotoluene	3.802	165	10005	480.100	ng/ml	97
16) Acenaphthylene	3.844	152	69974	558.160	ng/ml	100
18) Acenaphthene	3.941	153	45784	506.589	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	14041	488.944	ng/ml	92
20) Fluorene	4.236	166	51566	529.317	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	7034	450.870	ng/ml	98
24) Hexachlorobenzene	4.553	284	20120	502.009	ng/ml	100
25) Pentachlorophenol	4.665	266	9212	425.967	ng/ml	99
26) Phenanthrene	4.783	178	82716	528.866	ng/ml	99
27) Anthracene	4.810	178	80972	523.978	ng/ml	100
28) Fluoranthene	5.465	202	91191	537.604	ng/ml	100
29) Pyrene	5.598	202	97876	556.459	ng/ml	100
32) Benzo[a]anthracene	6.339	228	93335	490.294	ng/ml	100
33) 3,3'-Dichlorobenzene	6.322	252	32939	502.107	ng/ml	99
34) Chrysene	6.363	228	93489	523.910	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.365	149	48117	416.501	ng/ml	99
37) Benzo[b]fluoranthene	7.207	252	85516	511.490	ng/ml	100
38) Benzo[k]fluoranthene	7.233	252	87991	552.817	ng/ml	100
39) Benzo[a]pyrene	7.526	252	74696	541.983	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.849	276	67861	522.826	ng/ml	99
41) Dibenzo[a,h]anthracene	8.887	278	69133M6	556.229	ng/ml	
42) Benzo[g,h,i]perylene	9.205	276	70489	533.799	ng/ml	100

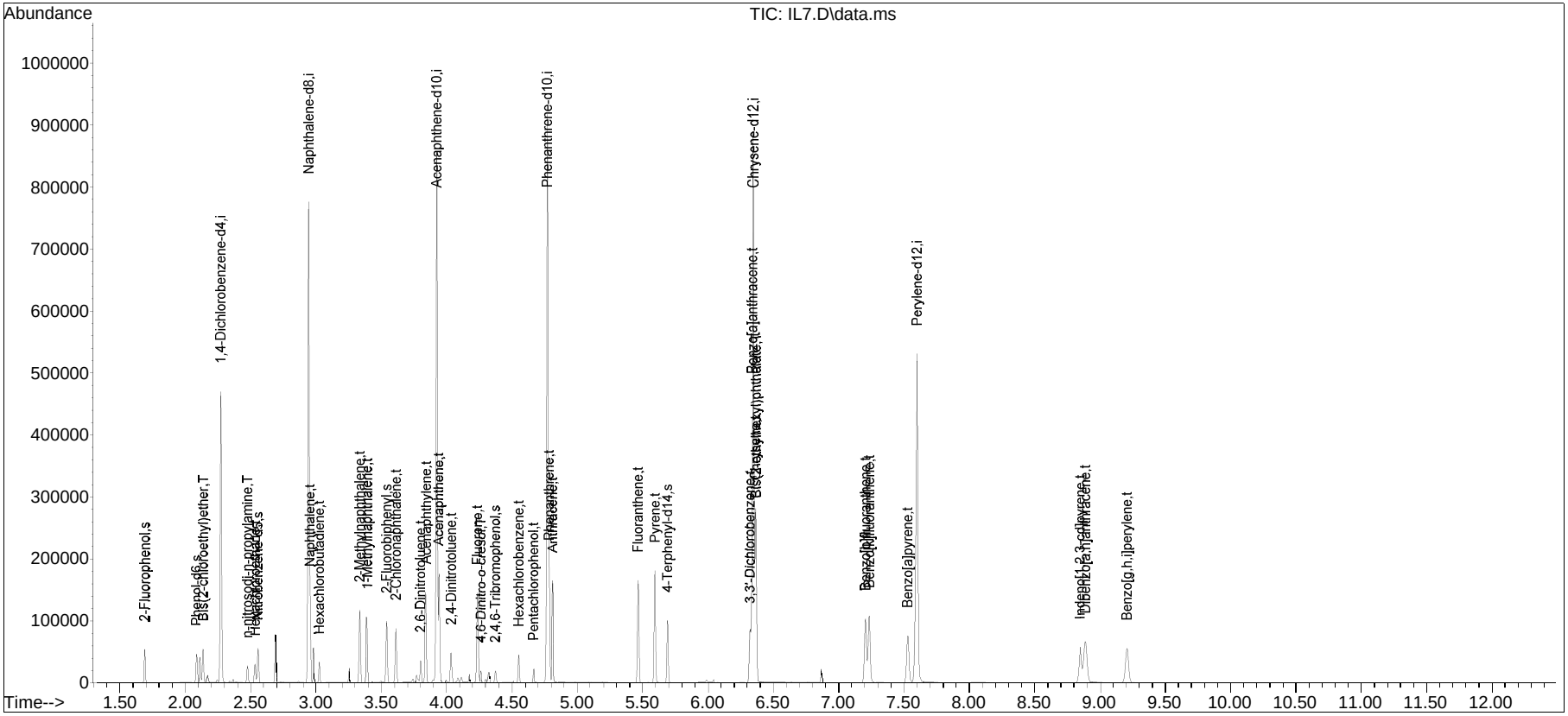
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL7.D
Acq On : 21 May 2024 11:10 am
Operator : SV120:dv
Sample : IL7,32,,500.0ng/mL lot# 10756
Misc : WG1927083,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 16:02:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:42 2024
Response via : Initial Calibration

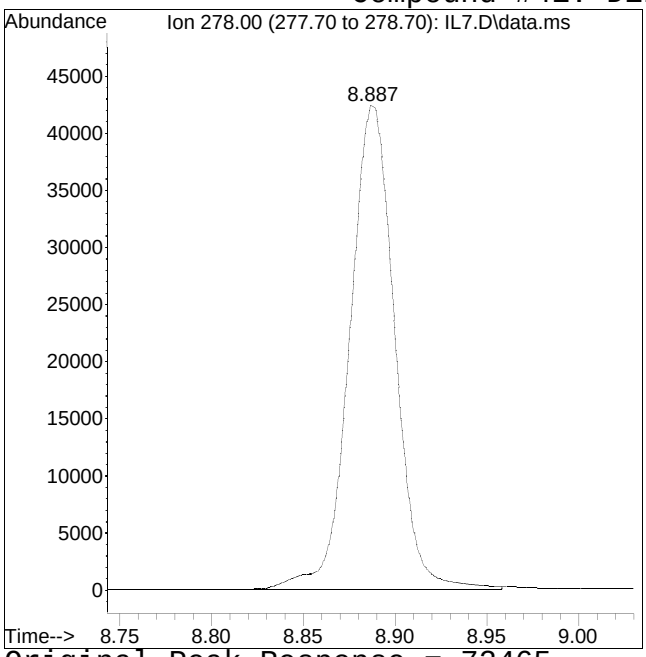
Sub List : Default - All compounds listedical\IL8.D•



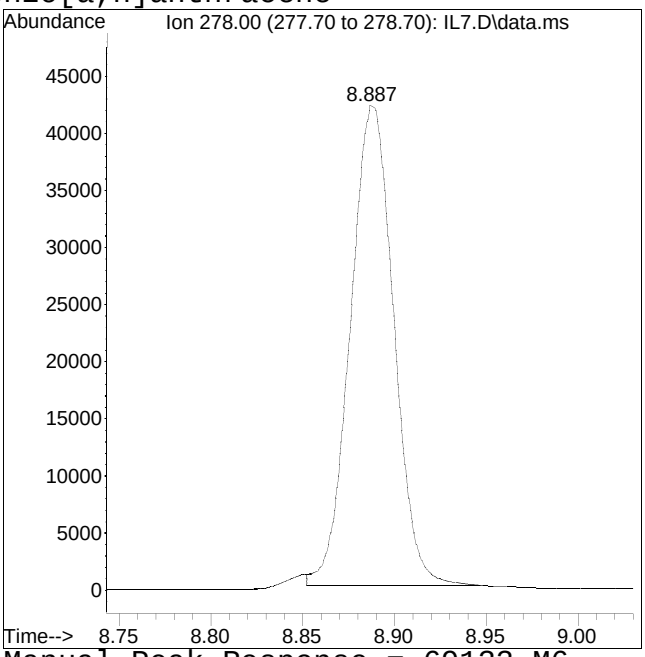
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL7.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:10 am Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 72465



Manual Peak Response = 69133 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	157417	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 87.08%			
8) Naphthalene-d8	2.944	136	567346	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 86.29%			
17) Acenaphthene-d10	3.926	164	304671	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.26%			
22) Phenanthrene-d10	4.769	188	612121	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 89.26%			
31) Chrysene-d12	6.345	240	471973	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 92.63%			
36) Perylene-d12	7.597	264	452229	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 91.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.709	112	4679	100.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.00%#			
3) Phenol-d6	2.088	99	5524	98.223	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.91%#			
7) Nitrobenzene-d5	2.558	82	4851	96.812	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 9.68%#			
13) 2-Fluorobiphenyl	3.546	172	12062	99.987	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.00%#			
21) 2,4,6-Tribromophenol	4.371	330	1580	80.341	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.02%#			
30) 4-Terphenyl-d14	5.691	244	11653	93.563	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 4.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	4814	96.851	ng/ml	100
5) n-nitrosodi-n-propylamine	2.477	70	3282	96.290	ng/ml	100
6) Hexachloroethane	2.537	117	2203	97.817	ng/ml	100
9) Naphthalene	2.954	128	15467	96.447	ng/ml	100
10) Hexachlorobutadiene	3.027	225	3073	100.173	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	9873	98.677	ng/ml	99
12) 1-Methylnaphthalene	3.393	142	9261	98.341	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	10175	99.500	ng/ml	100
15) 2,6-Dinitrotoluene	3.804	165	1852	90.500	ng/ml	95
16) Acenaphthylene	3.843	152	14719	97.801	ng/ml	100
18) Acenaphthene	3.943	153	10392	99.410	ng/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.032	165	2379	88.975	ng/ml#	71
20) Fluorene	4.236	166	11094	98.454	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.262	198	951	83.872	ng/ml	94
24) Hexachlorobenzene	4.556	284	4376	99.218	ng/ml	99
25) Pentachlorophenol	4.665	266	960	80.944	ng/ml	100
26) Phenanthrene	4.783	178	17464M6	101.468	ng/ml	
27) Anthracene	4.810	178	16498	97.015	ng/ml	100
28) Fluoranthene	5.465	202	17507	93.789	ng/ml	100
29) Pyrene	5.598	202	18245	94.261	ng/ml	100
32) Benzo[a]anthracene	6.336	228	17395	89.355	ng/ml	98
33) 3,3'-Dichlorobenzene	6.321	252	5076	80.707	ng/ml	99
34) Chrysene	6.360	228	17119	100.064	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.362	149	6984	88.047	ng/ml	98
37) Benzo[b]fluoranthene	7.204	252	14004	93.651	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	13400	94.128	ng/ml	100
39) Benzo[a]pyrene	7.522	252	11218	91.007	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.846	276	10212	87.967	ng/ml	98
41) Dibenzo[a,h]anthracene	8.883	278	10300M6	92.657	ng/ml	
42) Benzo[g,h,i]perylene	9.196	276	10836	91.748	ng/ml	99

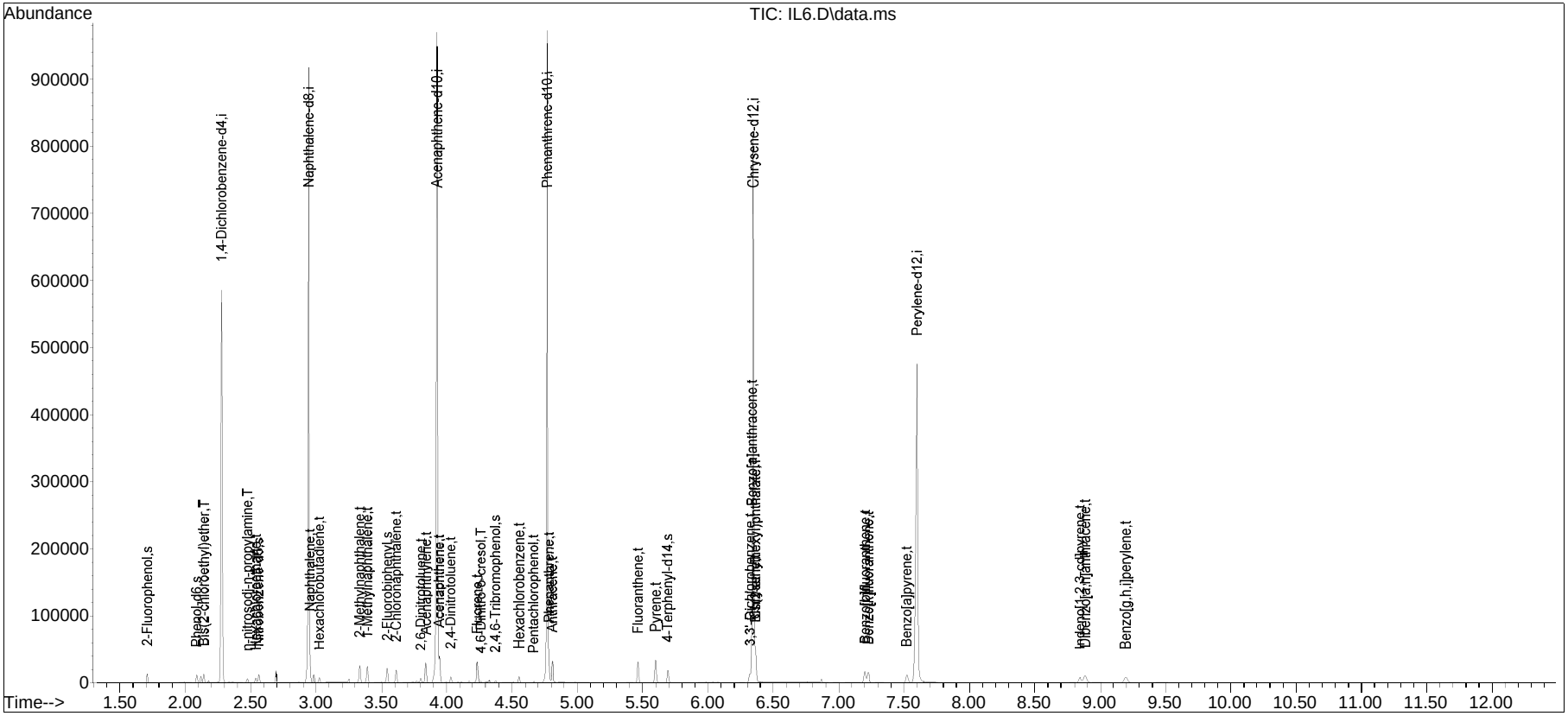
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL6.D
Acq On : 21 May 2024 11:26 am
Operator : SV120:dv
Sample : IL6,32,,100.0ng/mL lot# 10465
Misc : WG1927083,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 16:01:55 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:35 2024
Response via : Initial Calibration

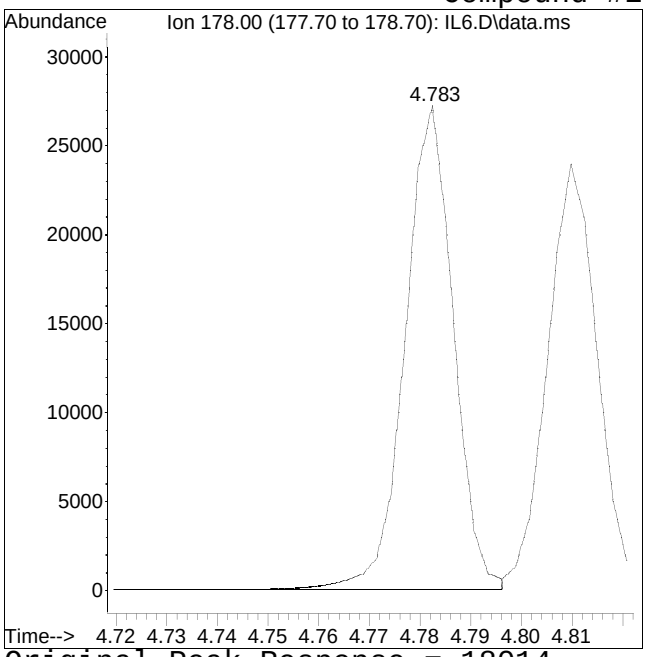
Sub List : Default - All compounds listedical\IL8.D•



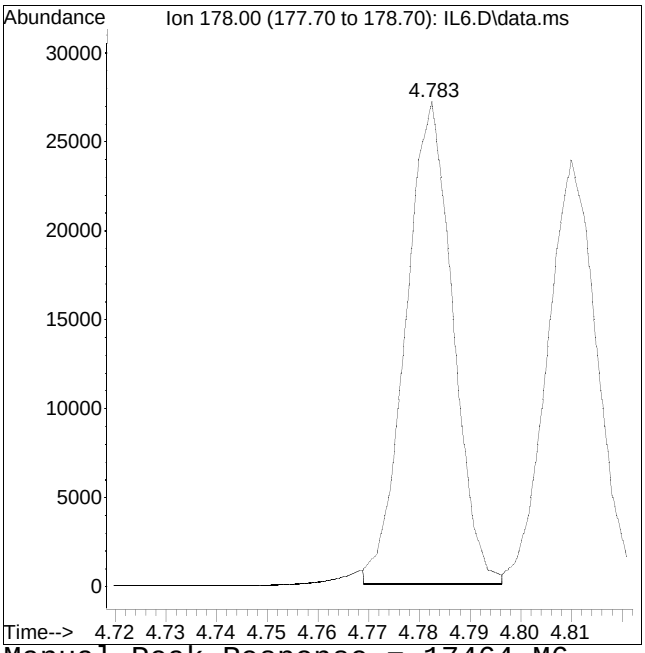
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL6.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:26 am Instrument : SV120
Sample : IL6,32,,100.0ng/mL lot# 10Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 18014



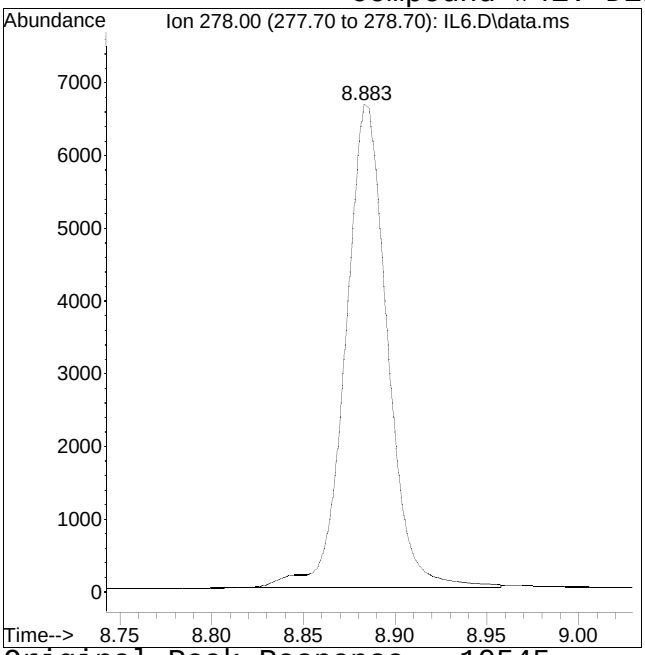
Manual Peak Response = 17464 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

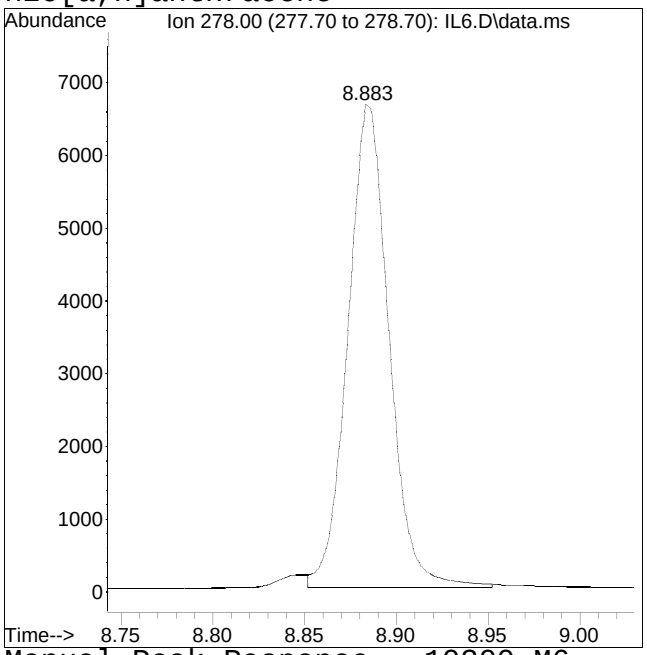
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL6.D
Date Inj'd : 5/21/2024 11:26 am
Sample : IL6,32,,100.0ng/mL lot# 10
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 10545



Manual Peak Response = 10300 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155533	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 86.04%			
8) Naphthalene-d8	2.944	136	556243	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 84.61%			
17) Acenaphthene-d10	3.927	164	298281	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.45%			
22) Phenanthrene-d10	4.770	188	585629	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 85.40%			
31) Chrysene-d12	6.344	240	449577	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 88.23%			
36) Perylene-d12	7.592	264	438216	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 89.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	1849	39.999	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.00%#			
3) Phenol-d6	2.091	99	2162	38.909	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.95%#			
7) Nitrobenzene-d5	2.558	82	1895	38.277	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.83%#			
13) 2-Fluorobiphenyl	3.545	172	4761	40.254	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.03%#			
21) 2,4,6-Tribromophenol	4.375	330	539	30.794	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.54%#			
30) 4-Terphenyl-d14	5.691	244	4407	36.985	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.85%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	1971	40.134	ng/ml	98
5) n-nitrosodi-n-propylamine	2.480	70	1270	37.712	ng/ml	100
6) Hexachloroethane	2.537	117	885	39.771	ng/ml	99
9) Naphthalene	2.957	128	6225	39.592	ng/ml	99
10) Hexachlorobutadiene	3.027	225	1239	41.195	ng/ml	99
11) 2-Methylnaphthalene	3.336	142	3917	39.930	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	3653	39.565	ng/ml	100
14) 2-Chloronaphthalene	3.608	162	4019	40.086	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	686	46.308	ng/ml	93
16) Acenaphthylene	3.844	152	5629	38.149	ng/ml	100
18) Acenaphthene	3.944	153	4149	40.540	ng/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	833	44.881	ng/ml#	49
20) Fluorene	4.236	166	4281	38.806	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.265	198	297M6	49.087	ng/ml	
24) Hexachlorobenzene	4.554	284	1683	39.885	ng/ml	99
25) Pentachlorophenol	4.666	266	222M6	53.577	ng/ml	
26) Phenanthrene	4.784	178	6743M6	40.950	ng/ml	
27) Anthracene	4.811	178	6218	38.218	ng/ml	99
28) Fluoranthene	5.466	202	6696	37.495	ng/ml	100
29) Pyrene	5.595	202	6838	36.926	ng/ml	100
32) Benzo[a]anthracene	6.336	228	7399	35.809	ng/ml	94
33) 3,3'-Dichlorobenzene	6.317	252	1817	30.329	ng/ml	98
34) Chrysene	6.358	228	6593	40.457	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.361	149	2582	52.192	ng/ml	95
37) Benzo[b]fluoranthene	7.202	252	5205	35.921	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	5108	37.028	ng/ml	100
39) Benzo[a]pyrene	7.523	252	4242	35.514	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.844	276	3982	35.398	ng/ml	99
41) Dibenzo[a,h]anthracene	8.881	278	3916M6	36.354	ng/ml	
42) Benzo[g,h,i]perylene	9.197	276	4197	36.672	ng/ml	99

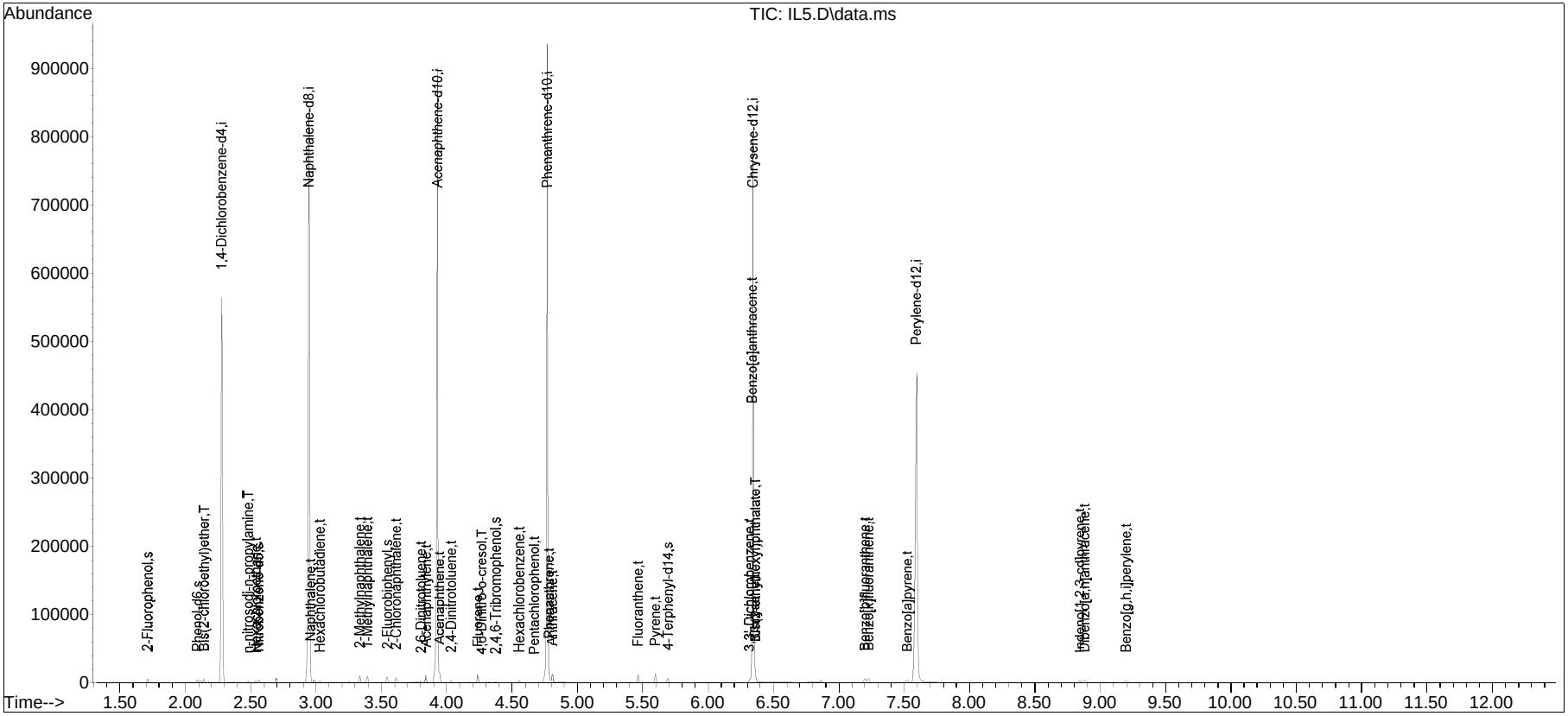
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL5.D
Acq On : 21 May 2024 11:42 am
Operator : SV120:dv
Sample : IL5,32,,40.0ng/mL lot# 10757
Misc : WG1927083,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 30 16:01:48 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:28 2024
Response via : Initial Calibration

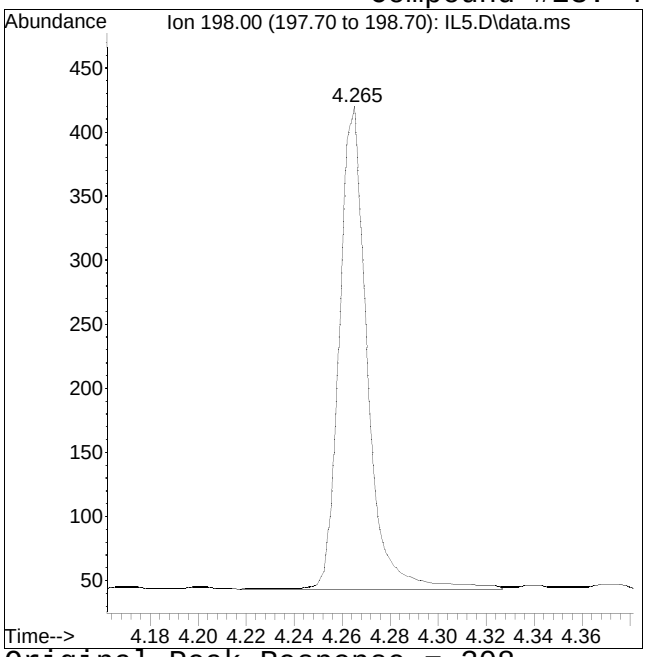
Sub List : Default - All compounds listedical\IL8.D•



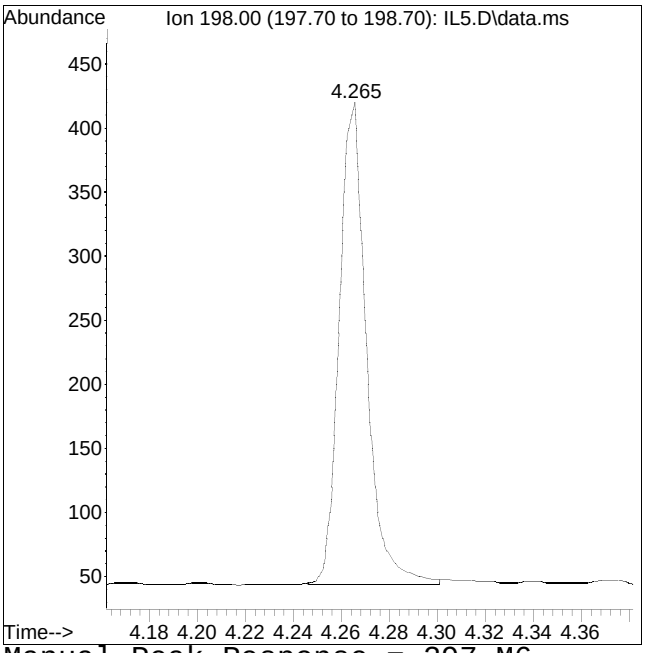
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 308



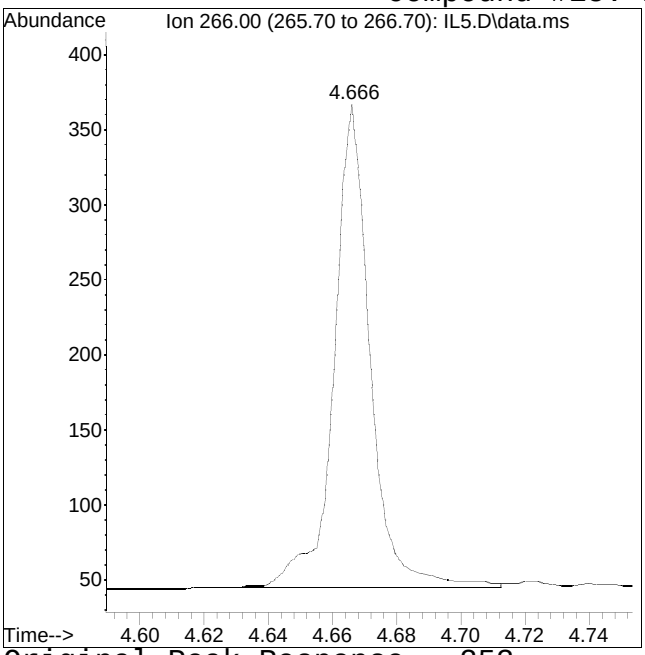
Manual Peak Response = 297 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

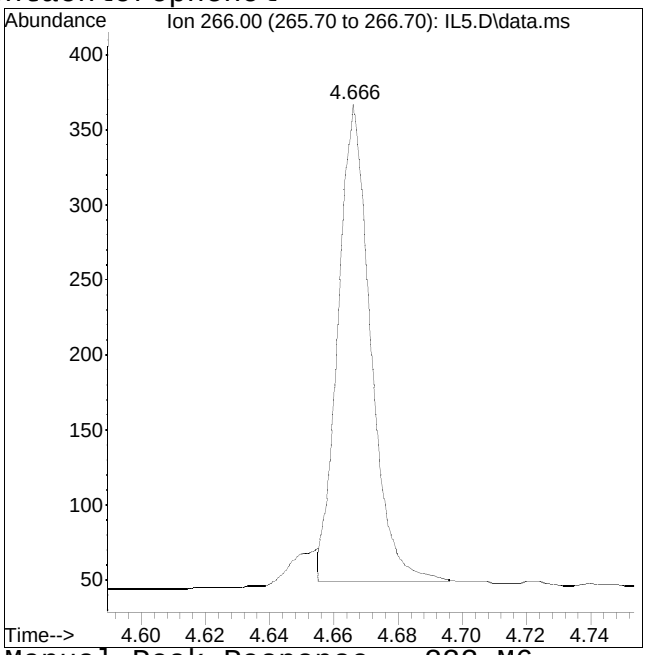
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 253



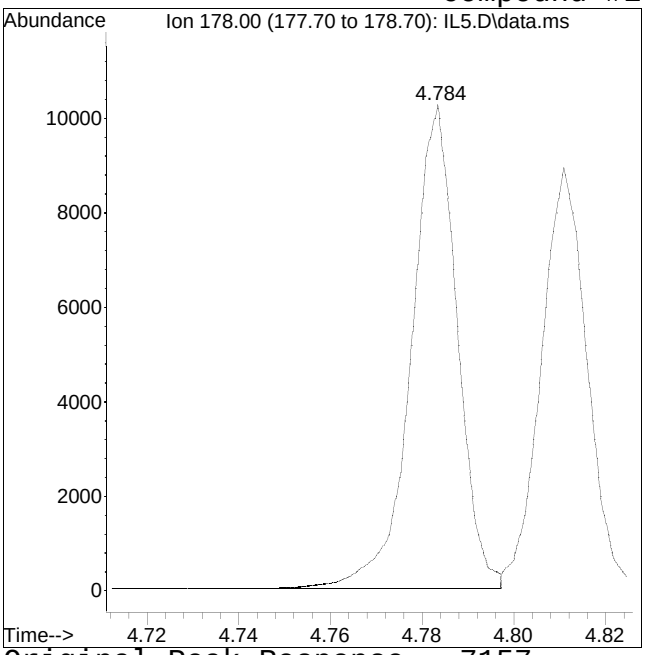
Manual Peak Response = 222 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

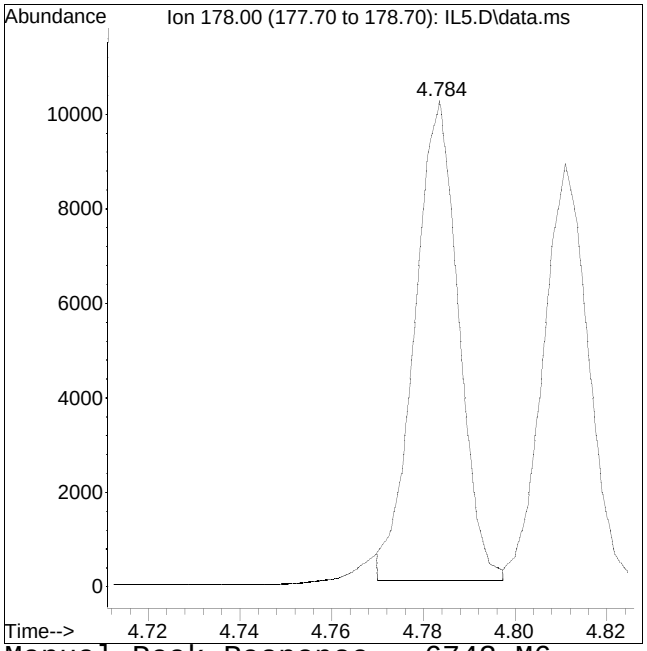
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 7157



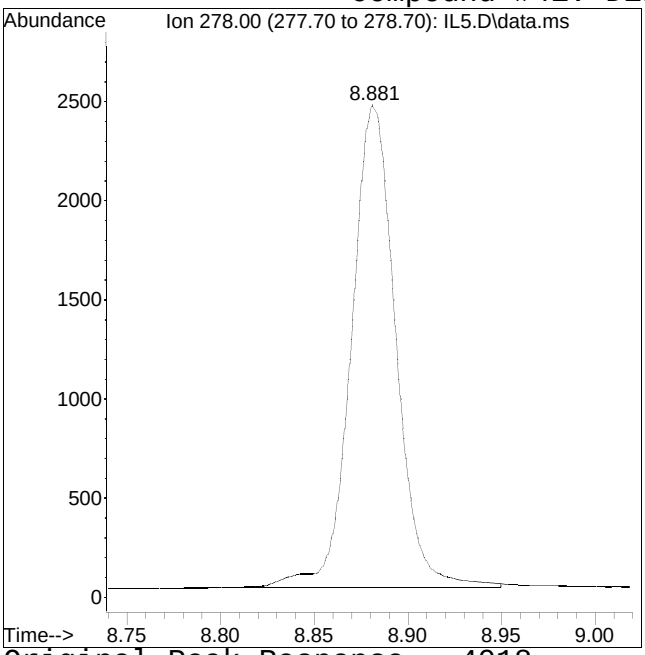
Manual Peak Response = 6743 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

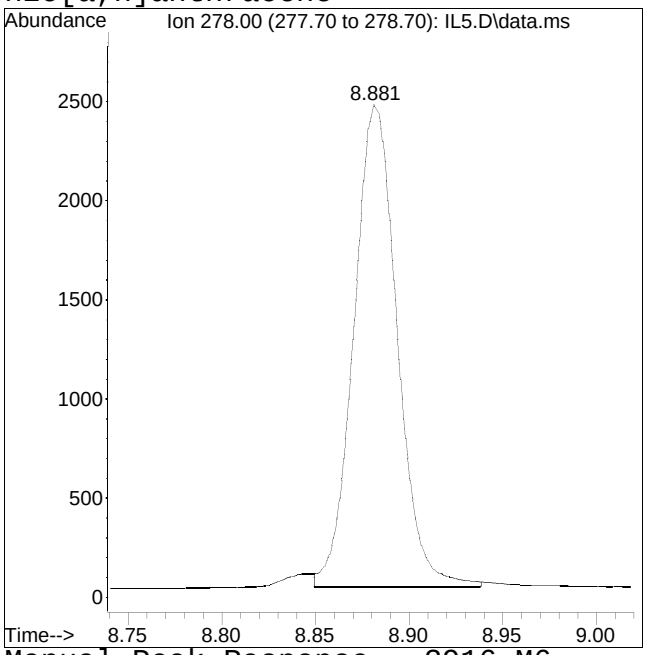
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL5.D
Date Inj'd : 5/21/2024 11:42 am
Sample : IL5,32,,40.0ng/mL lot# 107
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 4018



Manual Peak Response = 3916 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	162672	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 89.99%			
8) Naphthalene-d8	2.944	136	580024	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 88.22%			
17) Acenaphthene-d10	3.927	164	304551	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 86.23%			
22) Phenanthrene-d10	4.770	188	581441	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 84.79%			
31) Chrysene-d12	6.343	240	437776	4000.000	ng/ml	0.00
Standard Area 1 = 509536			Recovery = 85.92%			
36) Perylene-d12	7.592	264	423252	4000.000	ng/ml	0.00
Standard Area 1 = 492251			Recovery = 85.98%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.711	112	465	9.618	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
3) Phenol-d6	2.091	99	538	9.257	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.46%#			
7) Nitrobenzene-d5	2.561	82	465	8.980	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.90%#			
13) 2-Fluorobiphenyl	3.545	172	1185	9.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.96%#			
21) 2,4,6-Tribromophenol	4.372	330	121	10.122	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.51%#			
30) 4-Terphenyl-d14	5.692	244	1012	8.554	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	501	9.754	ng/ml	96
5) n-nitrosodi-n-propylamine	2.480	70	319	9.057	ng/ml	96
6) Hexachloroethane	2.537	117	228	9.797	ng/ml	97
9) Naphthalene	2.954	128	1592	9.710	ng/ml#	97
10) Hexachlorobutadiene	3.029	225	316	10.076	ng/ml	97
11) 2-Methylnaphthalene	3.336	142	976	9.542	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	916	9.514	ng/ml	98
14) 2-Chloronaphthalene	3.609	162	1004	9.603	ng/ml	100
15) 2,6-Dinitrotoluene	3.805	165	156	25.326	ng/ml	93
16) Acenaphthylene	3.844	152	1359	8.833	ng/ml	100
18) Acenaphthene	3.944	153	1050	10.048	ng/ml	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.033	165	235M4	27.114	ng/ml	
20) Fluorene	4.237	166	1026	9.109	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.266	198	49M7	35.022	ng/ml	
24) Hexachlorobenzene	4.554	284	402	9.596	ng/ml	100
25) Pentachlorophenol	4.666	266	46M1	46.674	ng/ml	
26) Phenanthrene	4.784	178	1615M6	9.878	ng/ml	
27) Anthracene	4.811	178	1470	9.100	ng/ml	99
28) Fluoranthene	5.466	202	1561	8.804	ng/ml	99
29) Pyrene	5.596	202	1578	8.583	ng/ml	99
32) Benzo[a]anthracene	6.341	228	2713	8.875	ng/ml#	83
33) 3,3'-Dichlorobenzene	6.319	252	408	6.994	ng/ml	99
34) Chrysene	6.358	228	1508	9.503	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.360	149	544M6	34.370	ng/ml	
37) Benzo[b]fluoranthene	7.201	252	1200	8.574	ng/ml	100
38) Benzo[k]fluoranthene	7.227	252	1157	8.684	ng/ml	100
39) Benzo[a]pyrene	7.520	252	936	8.113	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.838	276	903	8.311	ng/ml	98
41) Dibenzo[a,h]anthracene	8.881	278	850M6	8.170	ng/ml	
42) Benzo[g,h,i]perylene	9.193	276	942	8.522	ng/ml	98

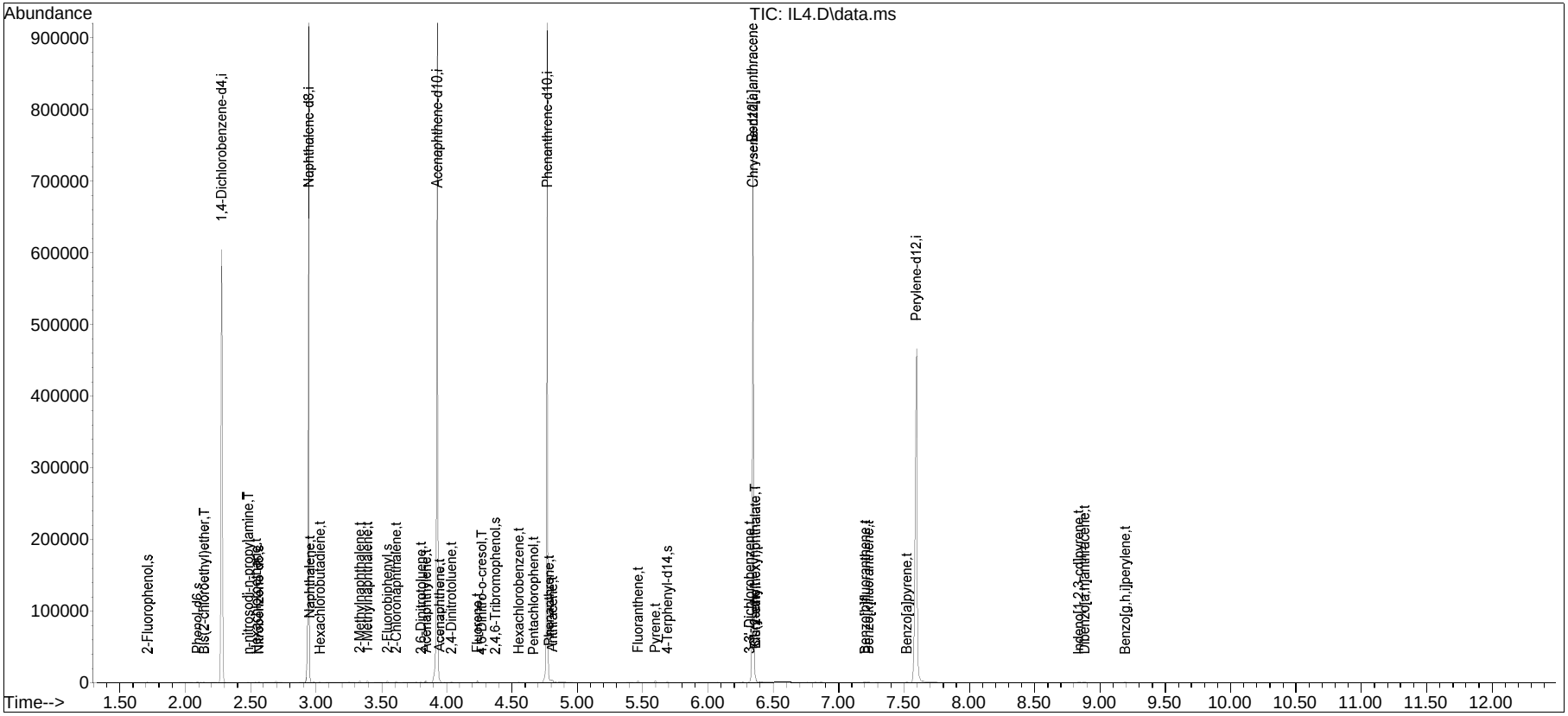
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL4.D
Acq On : 21 May 2024 11:59 am
Operator : SV120:dv
Sample : IL4,32,,10.0ng/mL lot#10468
Misc : WG1927083,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 30 16:06:18 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:21 2024
Response via : Initial Calibration

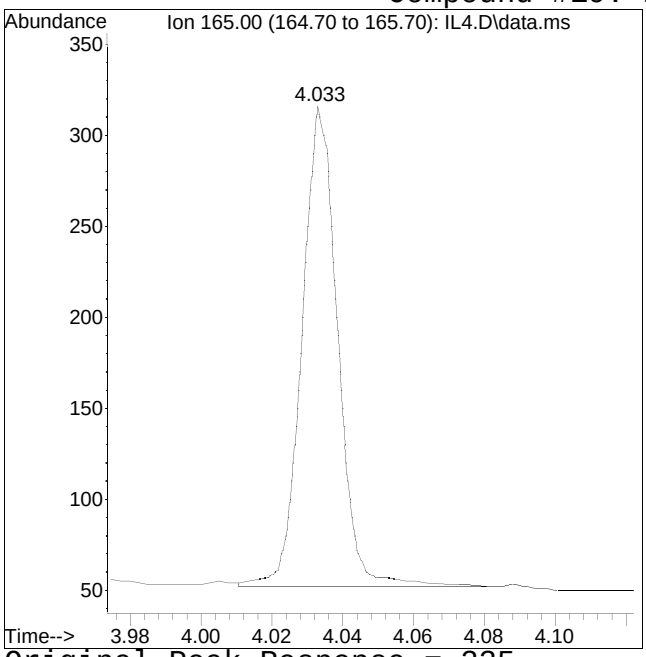
Sub List : Default - All compounds listedical\IL8.D•



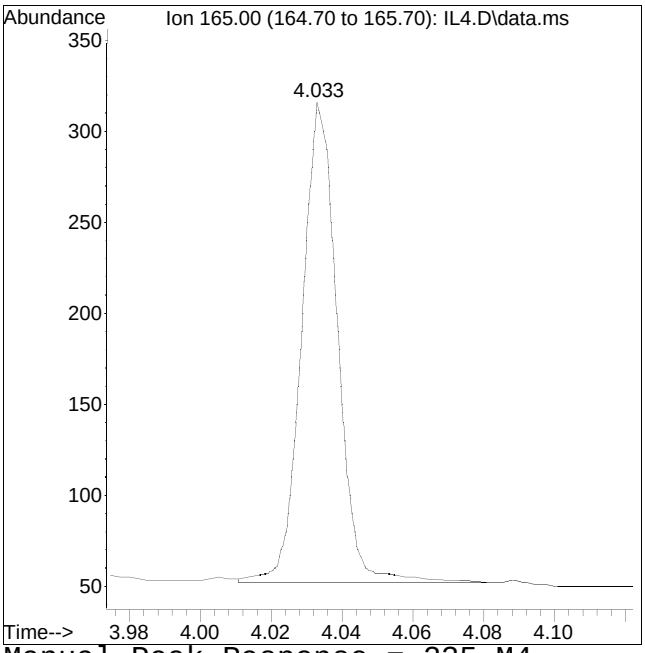
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #19: 2,4-Dinitrotoluene



Original Peak Response = 235



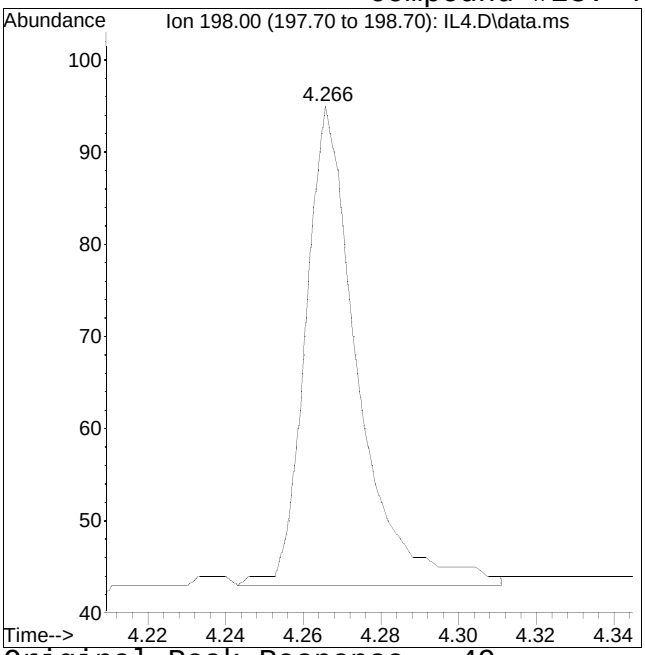
Manual Peak Response = 235 M4

M4 = Poor automated baseline construction.

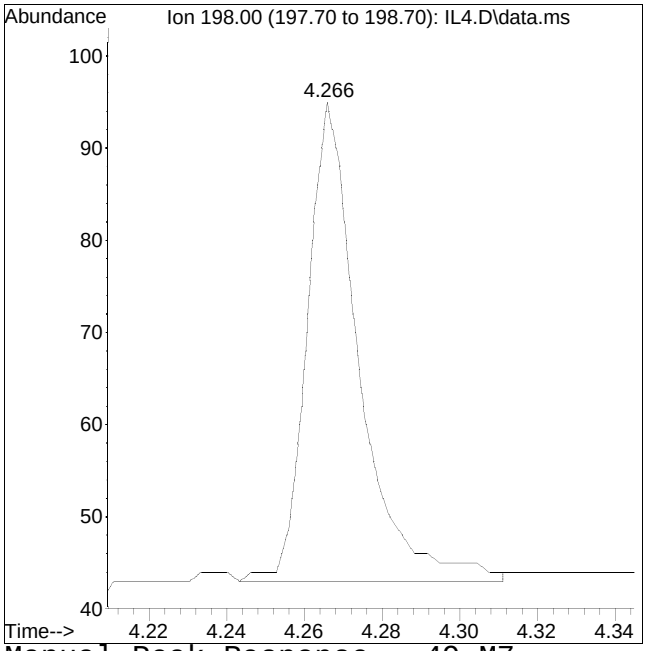
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 49



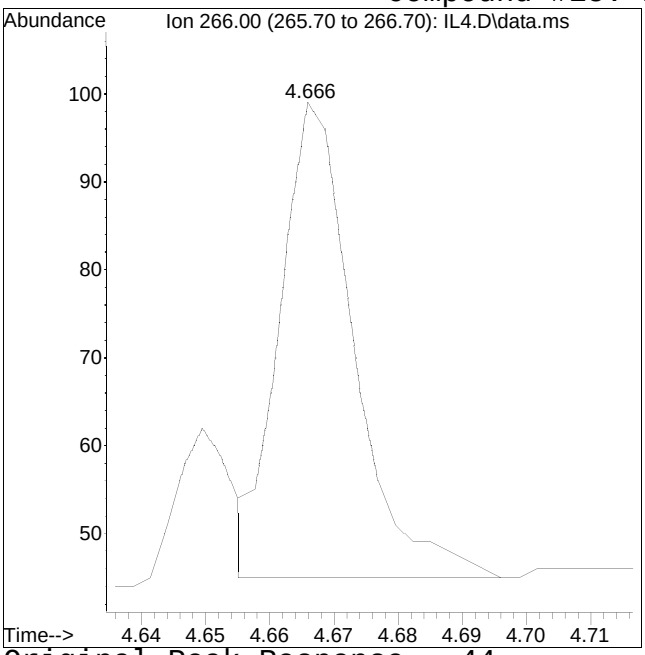
Manual Peak Response = 49 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

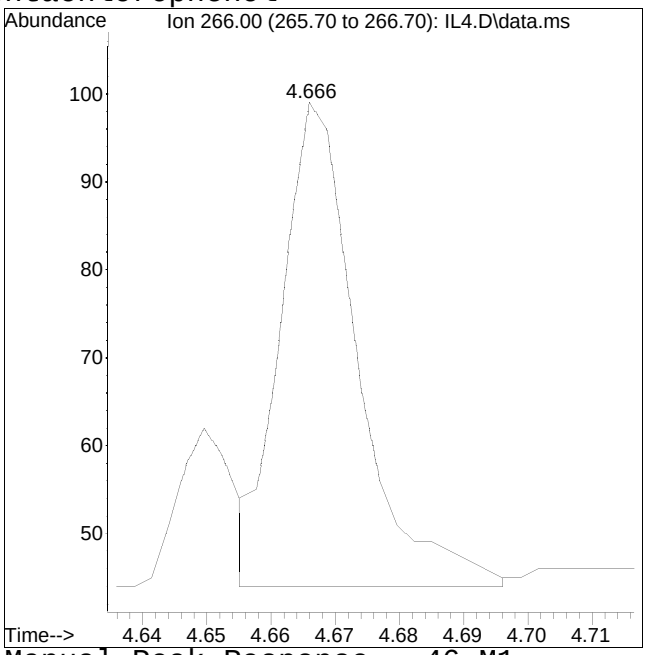
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 44



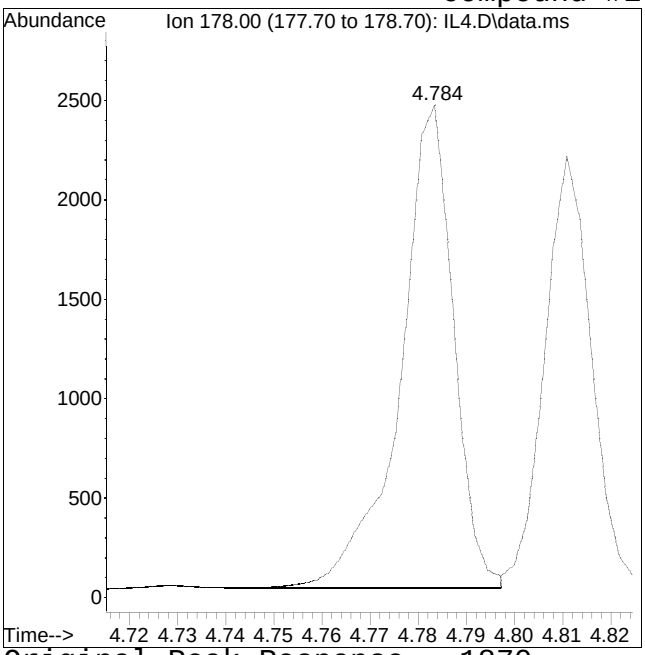
Manual Peak Response = 46 M1

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

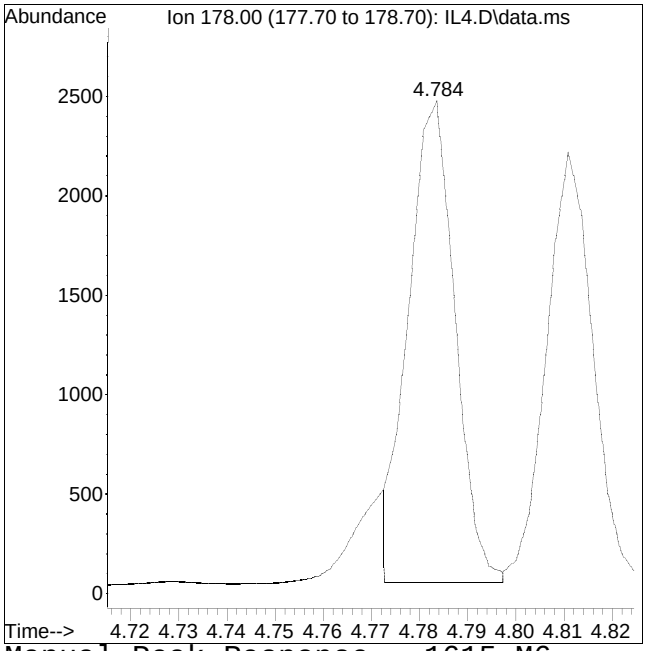
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 1870



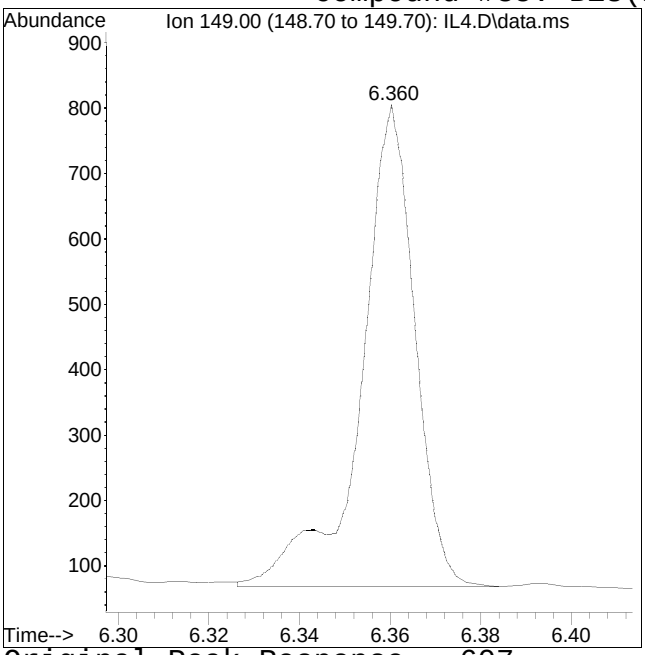
Manual Peak Response = 1615 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

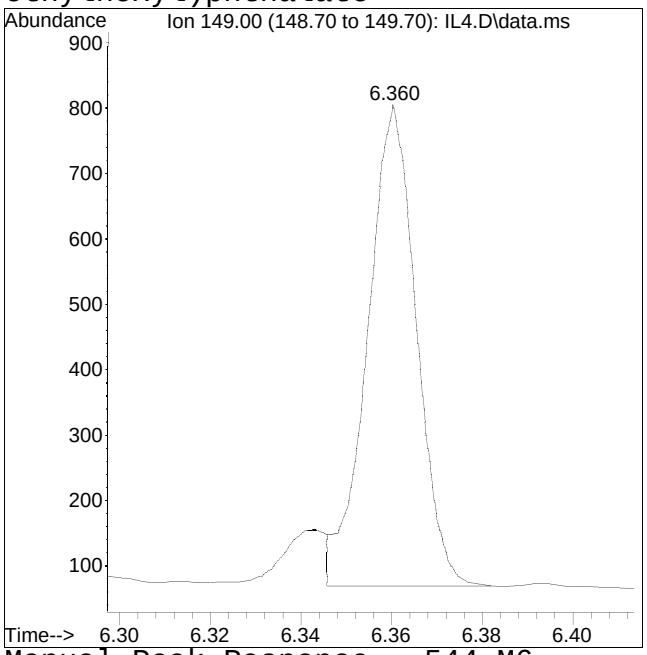
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL4.D Operator : SV120:dv
Date Inj'd : 5/21/2024 11:59 am Instrument : SV120
Sample : IL4,32,,10.0ng/mL lot#1046Quant Date : 5/30/2024 4:02 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 607



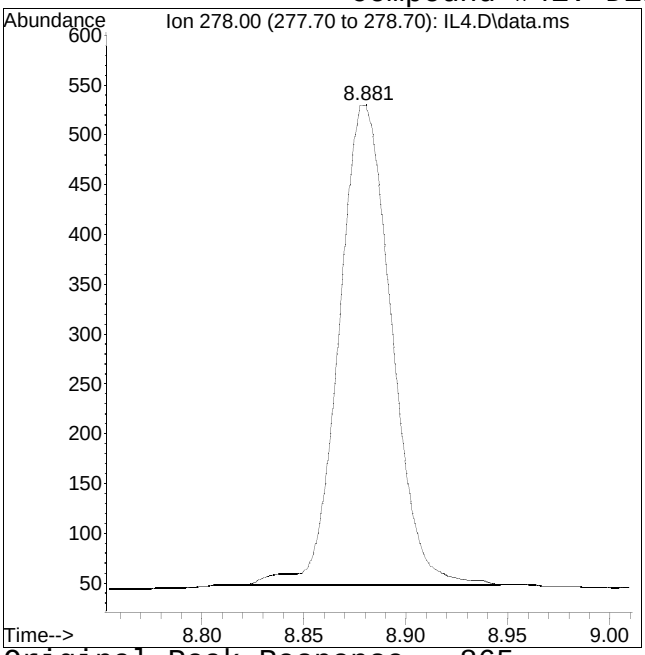
Manual Peak Response = 544 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

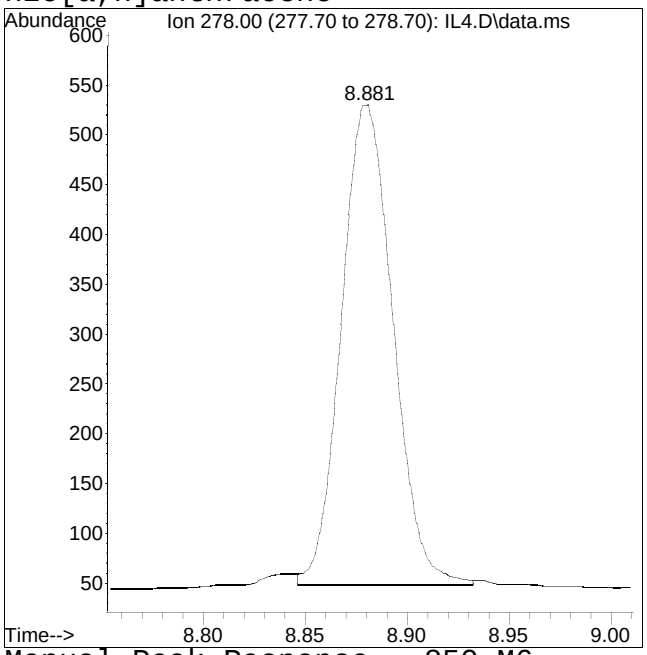
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL4.D
Date Inj'd : 5/21/2024 11:59 am
Sample : IL4,32,,10.0ng/mL lot#1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 865



Manual Peak Response = 850 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	139698	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 77.28%			
8) Naphthalene-d8	2.944	136	503208	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 76.54%			
17) Acenaphthene-d10	3.926	164	270405	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 76.56%			
22) Phenanthrene-d10	4.771	188	537959	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 78.45%			
31) Chrysene-d12	6.339	240	426448	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 83.69%			
36) Perylene-d12	7.587	264	412718	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 83.84%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.707	112	204	4.913	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.25%#			
3) Phenol-d6	2.088	99	236	4.729	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.558	82	202	4.543	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.45%#			
13) 2-Fluorobiphenyl	3.546	172	516	4.823	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.48%#			
21) 2,4,6-Tribromophenol	4.374	330	50M6	7.008	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.35%#			
30) 4-Terphenyl-d14	5.689	244	518	4.732	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.24%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.141	93	218	4.942	ng/ml	93
5) n-nitrosodi-n-propylamine	2.480	70	139M6	4.595	ng/ml	
6) Hexachloroethane	2.537	117	99	4.953	ng/ml	99
9) Naphthalene	2.954	128	699	4.914	ng/ml#	93
10) Hexachlorobutadiene	3.027	225	130	4.778	ng/ml	95
11) 2-Methylnaphthalene	3.336	142	423	4.767	ng/ml	100
12) 1-Methylnaphthalene	3.393	142	401	4.801	ng/ml	100
14) 2-Chloronaphthalene	3.609	162	434	4.785	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.842	152	591	4.427	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.943	153	445M6	4.796	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.235	166	462	4.620	ng/ml	100
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.555	284	183	4.721	ng/ml	100
25) Pentachlorophenol	4.667	266	23M2	45.837	ng/ml	
26) Phenanthrene	4.782	178	754M6	4.985	ng/ml	
27) Anthracene	4.812	178	681	4.557	ng/ml	98
28) Fluoranthene	5.467	202	736	4.486	ng/ml	98
29) Pyrene	5.597	202	754	4.432	ng/ml	99
32) Benzo[a]anthracene	6.339	228	1960	4.672	ng/ml#	75
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.356	228	741	4.794	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.359	149	281	32.058	ng/ml	96
37) Benzo[b]fluoranthene	7.196	252	592	4.338	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	551	4.241	ng/ml	99
39) Benzo[a]pyrene	7.518	252	464	4.125	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	439	4.144	ng/ml	98
41) Dibenzo[a,h]anthracene	8.879	278	405M6	3.992	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	452	4.193	ng/ml	100

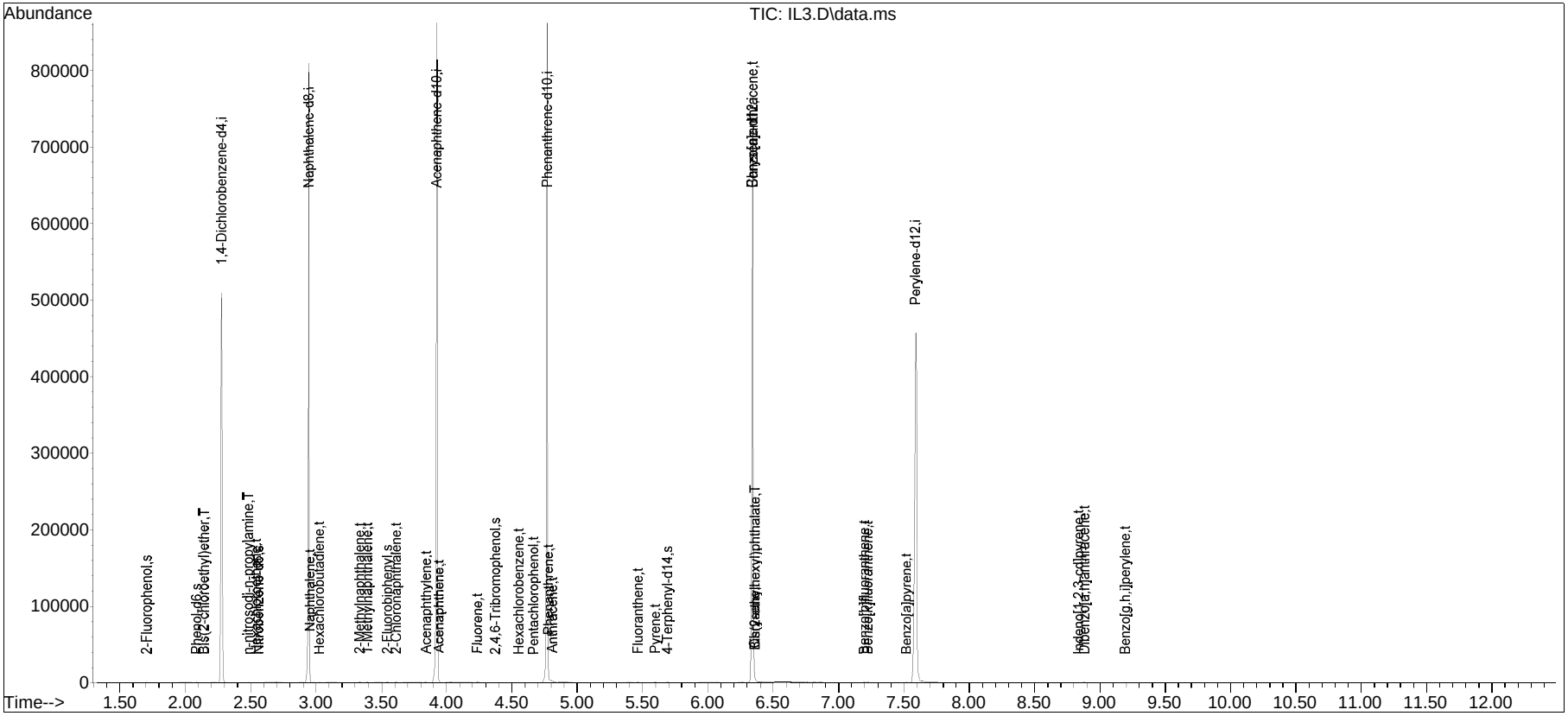
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL3.D
Acq On : 21 May 2024 12:15 pm
Operator : SV120:dv
Sample : IL3,32,,5.0ng/mL lot# 10469
Misc : WG1927083,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 30 16:05:26 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:14 2024
Response via : Initial Calibration

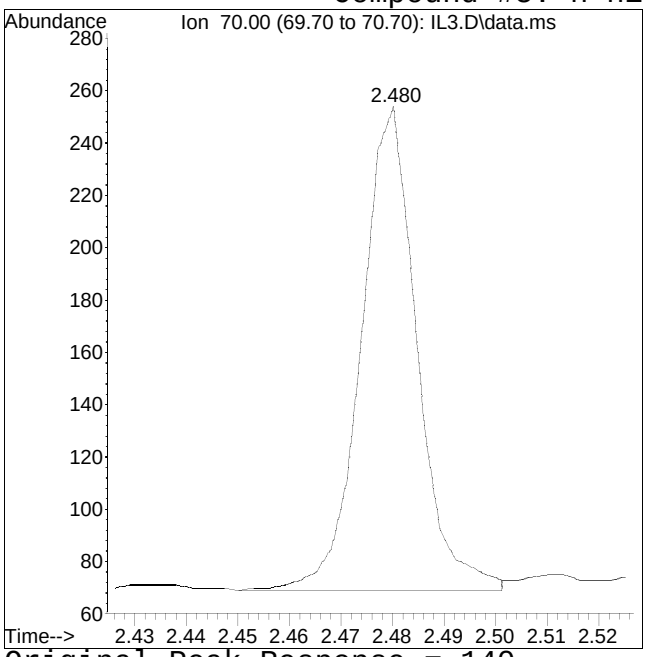
Sub List : Default - All compounds listedical\IL8.D•



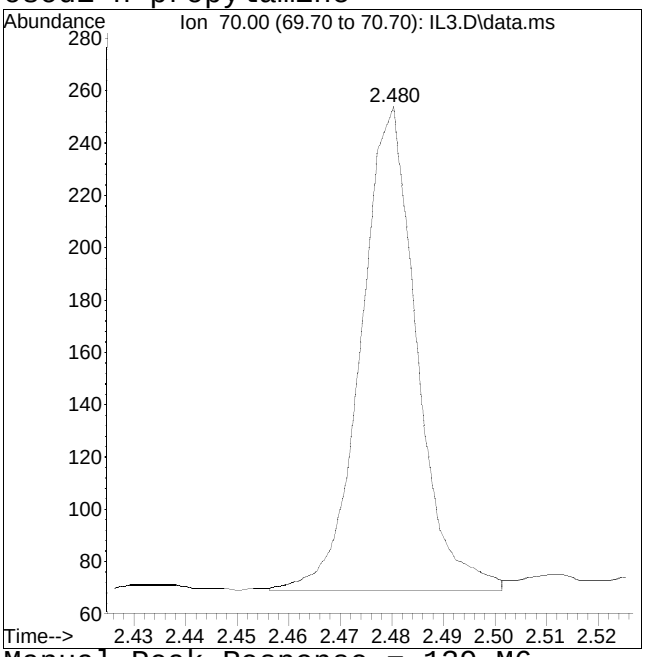
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL3.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:15 pm Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1046Quant Date : 5/30/2024 4:02 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 140



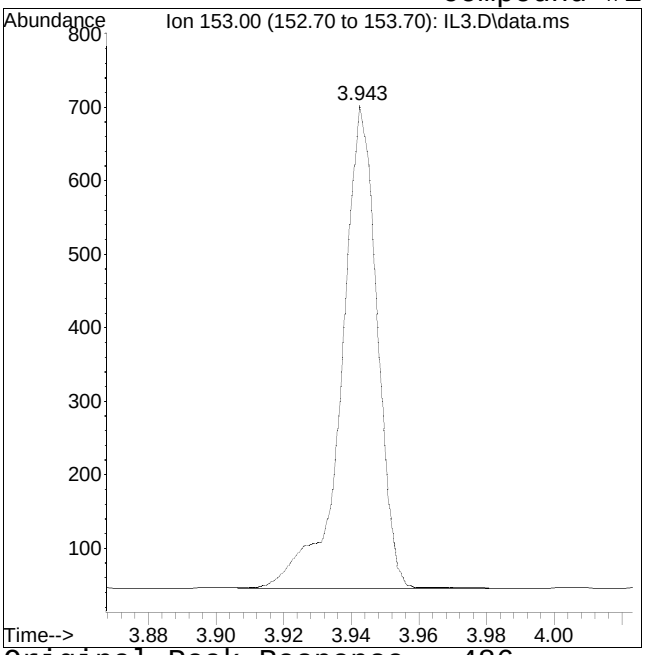
Manual Peak Response = 139 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

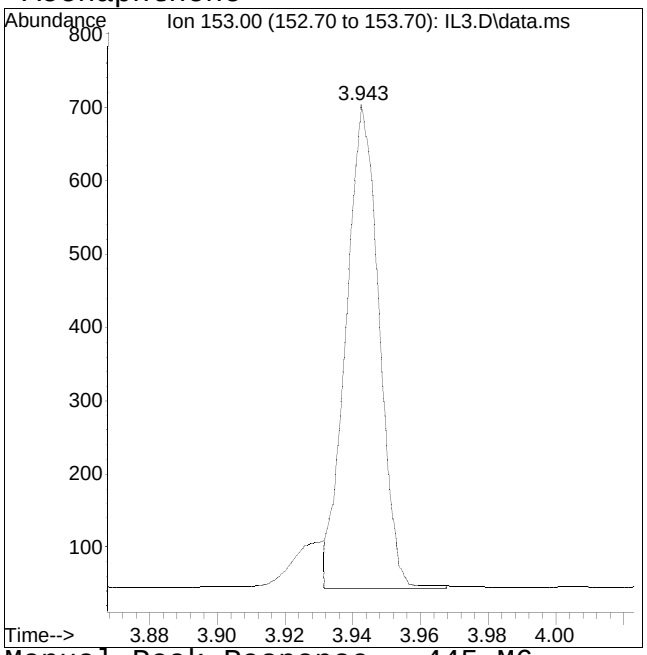
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #18: Acenaphthene



Original Peak Response = 486



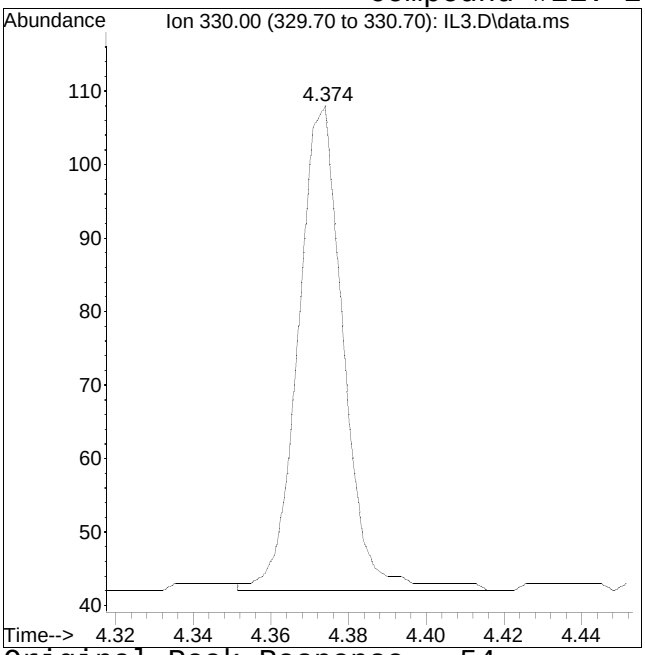
Manual Peak Response = 445 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

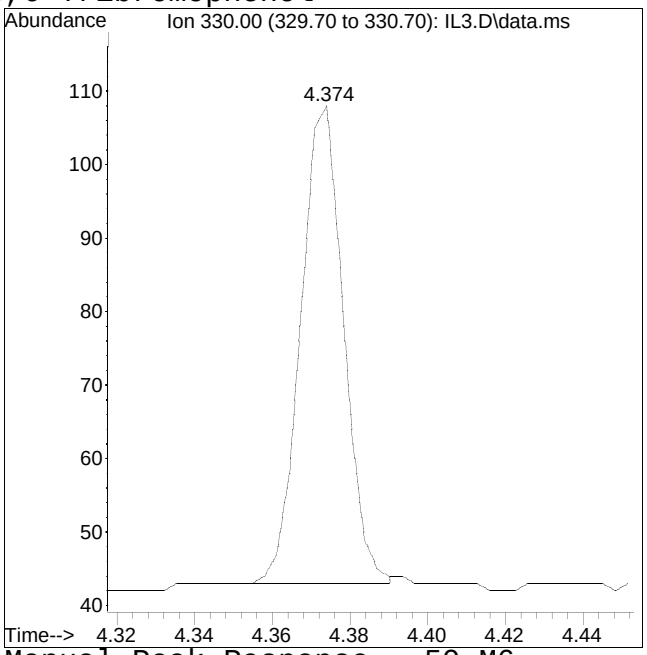
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 54



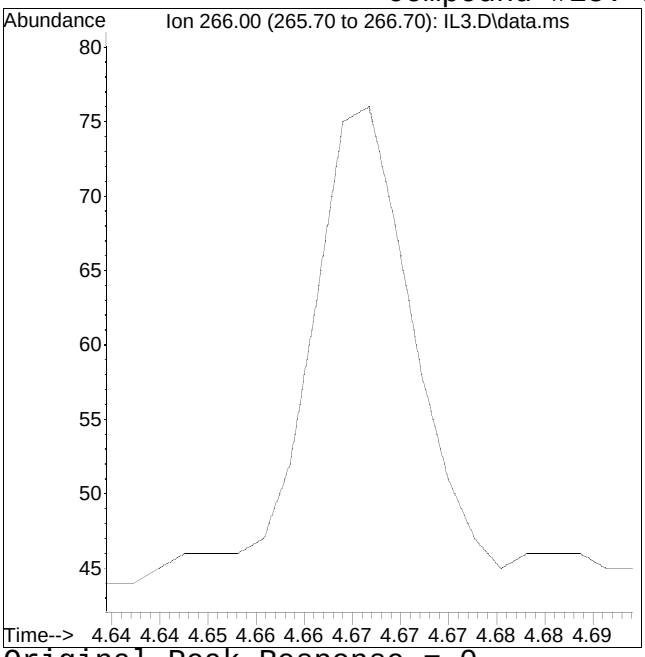
Manual Peak Response = 50 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

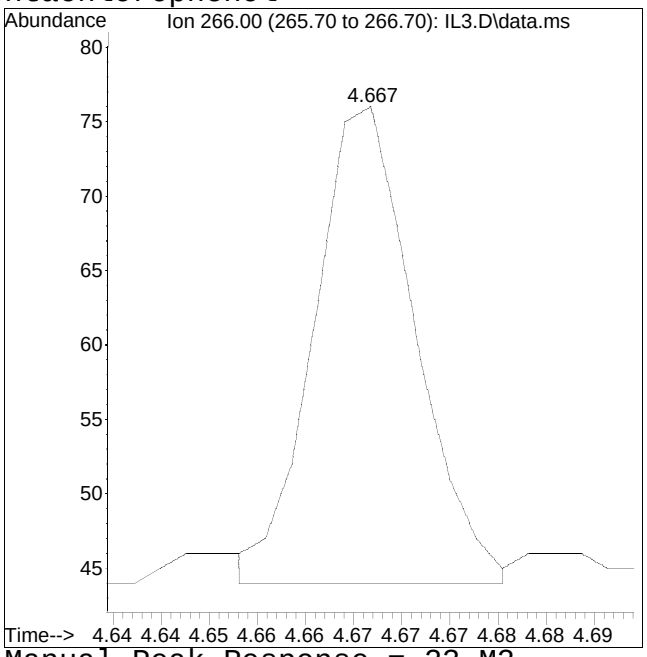
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #25: Pentachlorophenol



Original Peak Response = 0



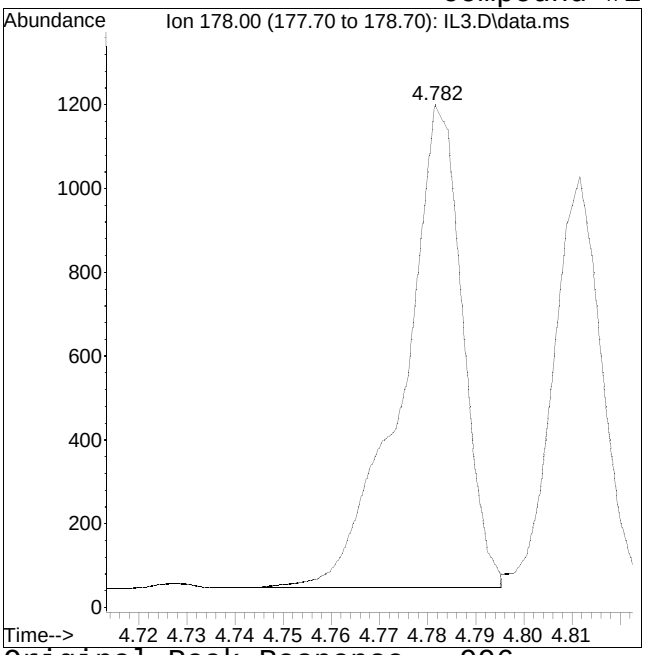
Manual Peak Response = 23 M2

M2 = Peak not found by automatic integration algorithm.

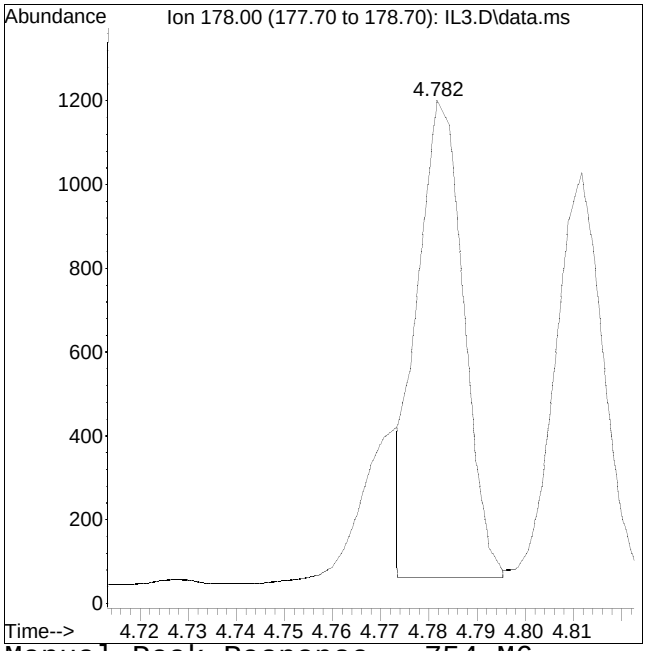
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL3.D
Date Inj'd : 5/21/2024 12:15 pm
Sample : IL3,32,,5.0ng/mL lot# 1046
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 4:02 pm

Compound #26: Phenanthrene



Original Peak Response = 996



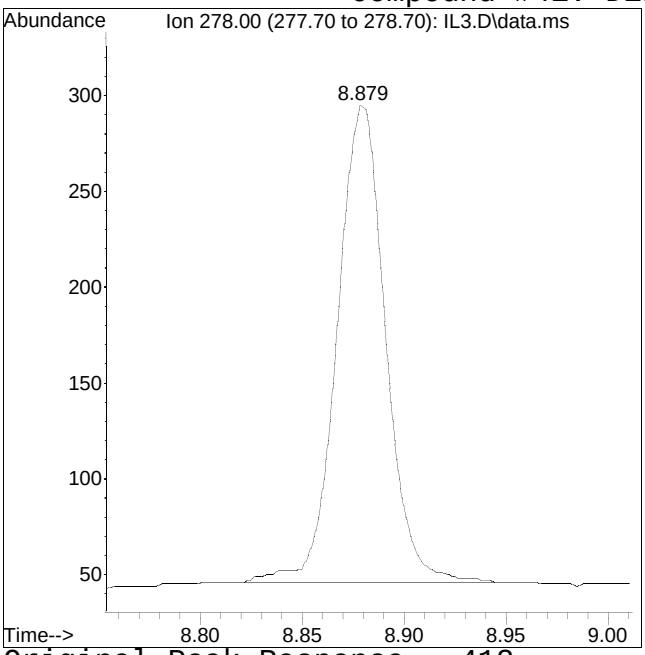
Manual Peak Response = 754 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

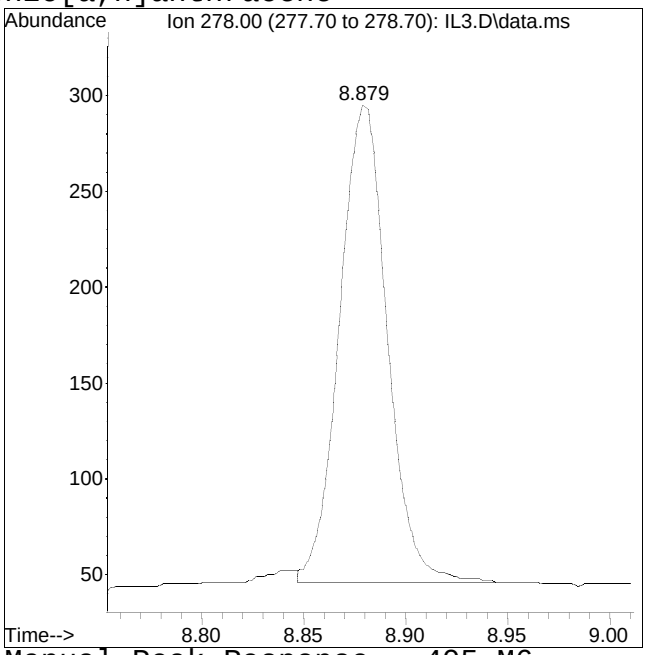
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL3.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:15 pm Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1046Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 412



Manual Peak Response = 405 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	153895	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.14%			
8) Naphthalene-d8	2.944	136	545310	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 82.94%			
17) Acenaphthene-d10	3.927	164	283118	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 80.16%			
22) Phenanthrene-d10	4.770	188	544715	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 79.43%			
31) Chrysene-d12	6.339	240	389724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 76.49%			
36) Perylene-d12	7.583	264	368708	4000.000	ng/ml	-0.02
Standard Area 1 = 492251			Recovery = 74.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.719	112	93	2.033	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	2.091	99	109M7	1.983	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.561	82	96	1.960	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.20%#			
13) 2-Fluorobiphenyl	3.545	172	240	2.070	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.688	244	225M4	2.030	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.10%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	105	2.161	ng/ml	91
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.954	128	335	2.173	ng/ml#	82
10) Hexachlorobutadiene	3.027	225	64	2.171	ng/ml	96
11) 2-Methylnaphthalene	3.336	142	197	2.049	ng/ml	97
12) 1-Methylnaphthalene	3.393	142	193	2.132	ng/ml	94
14) 2-Chloronaphthalene	3.608	162	203	2.065	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.843	152	273	1.887	ng/ml	98
18) Acenaphthene	3.943	153	199M6	2.049	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.234	166	216	2.063	ng/ml	95
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.554	284	85M6	2.166	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.781	178	296M6	1.933	ng/ml	
27) Anthracene	4.811	178	294M6	1.943	ng/ml	
28) Fluoranthene	5.466	202	329M6	1.981	ng/ml	
29) Pyrene	5.596	202	349M6	2.026	ng/ml	
32) Benzo[a]anthracene	6.339	228	1500M4	2.711	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	6.353	228	304M3	2.152	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.356	149	127M6	30.740	ng/ml	
37) Benzo[b]fluoranthene	7.196	252	244	2.001	ng/ml	99
38) Benzo[k]fluoranthene	7.222	252	239M4	2.059	ng/ml	
39) Benzo[a]pyrene	7.515	252	193	1.920	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.838	276	187M4	1.976	ng/ml	
41) Dibenzo[a,h]anthracene	8.875	278	164M6	1.810	ng/ml	
42) Benzo[g,h,i]perylene	9.188	276	196	2.035	ng/ml	99

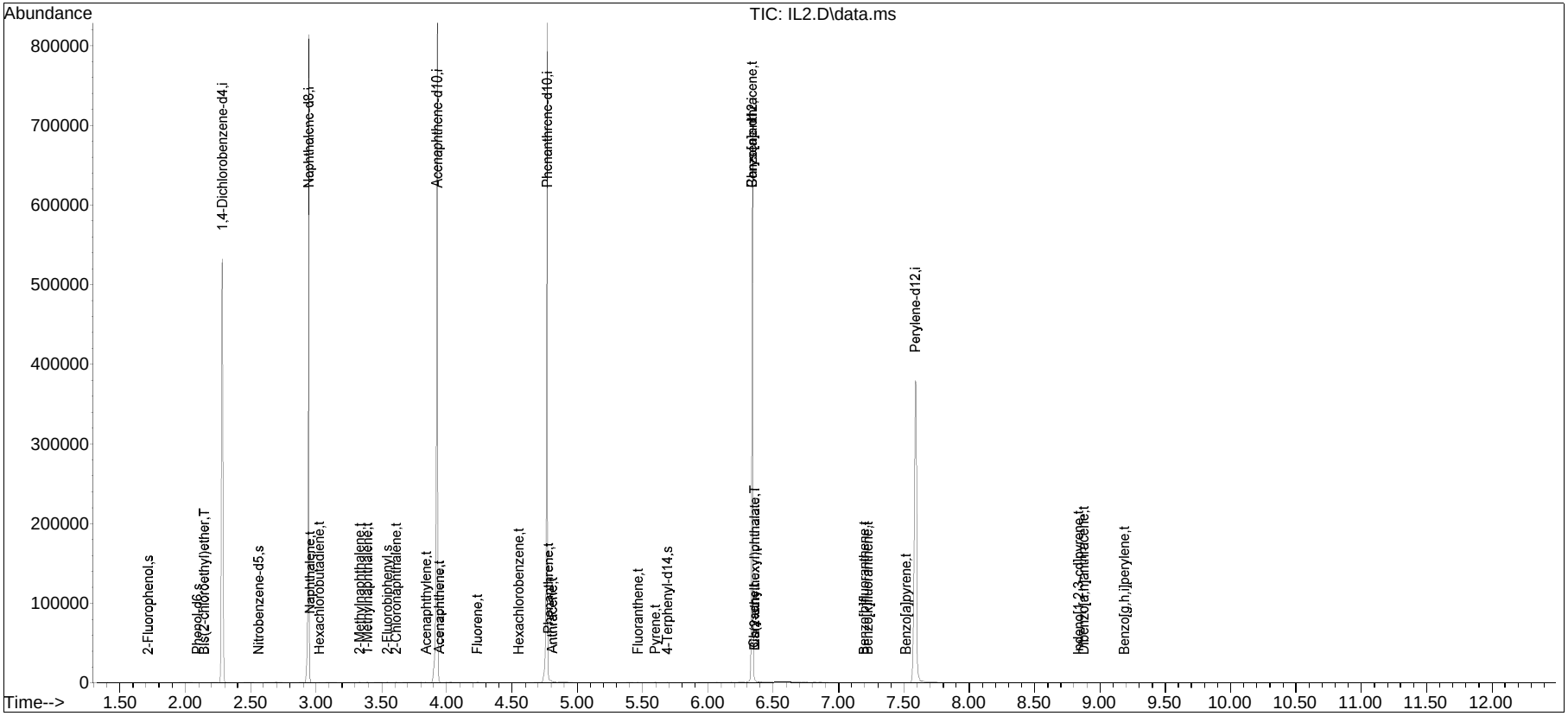
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL2.D
Acq On : 21 May 2024 12:32 pm
Operator : SV120:dv
Sample : IL2,32,,2.0ng/mL lot# 10758
Misc : WG1927083,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 30 16:04:49 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 15:58:27 2024
Response via : Initial Calibration

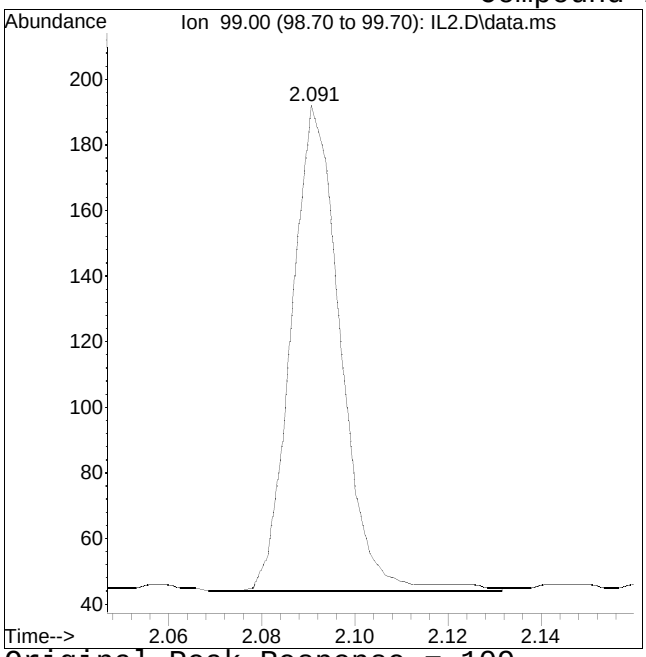
Sub List : Default - All compounds listedical\IL8.D•

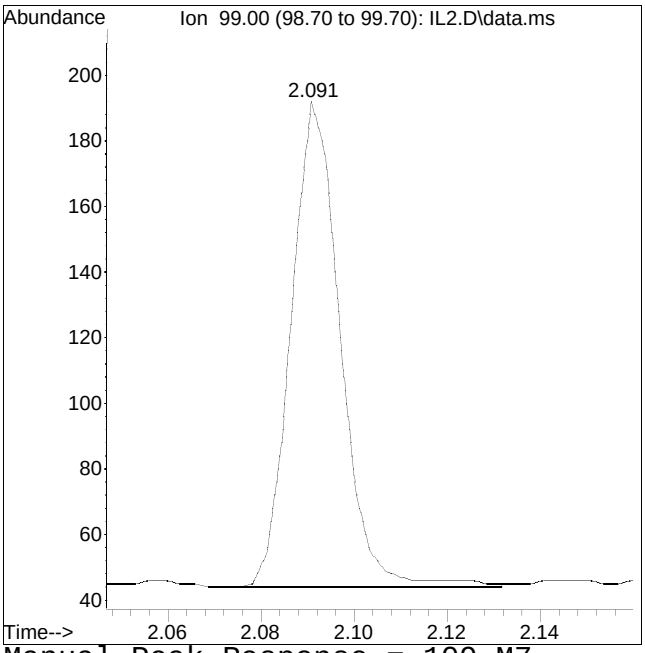


Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #3: Phenol-d6



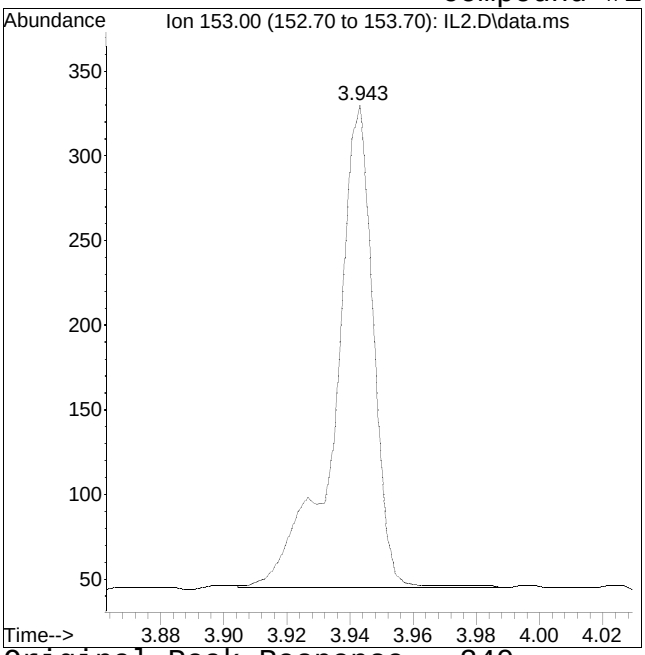


Original Peak Response = 109 Manual Peak Response = 109 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

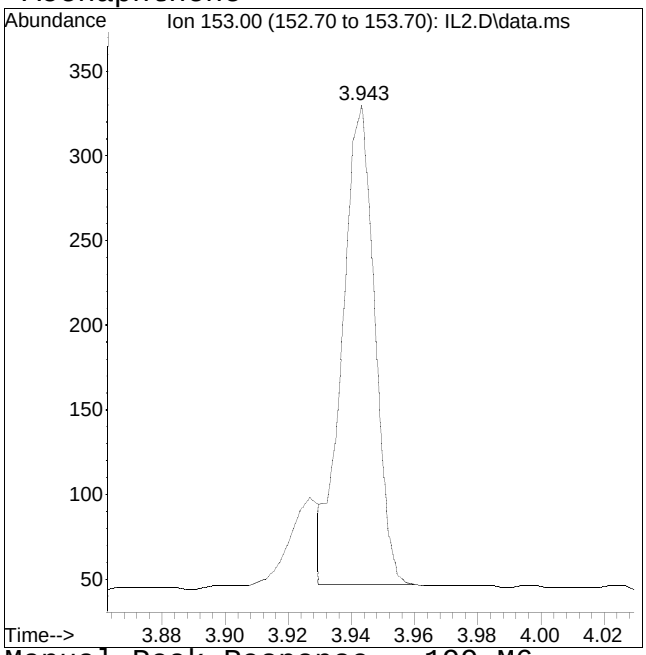
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #18: Acenaphthene



Original Peak Response = 240



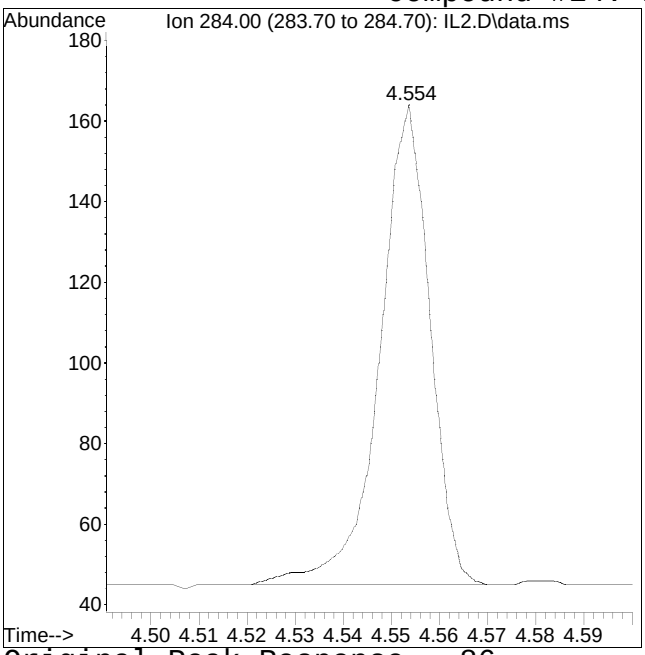
Manual Peak Response = 199 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

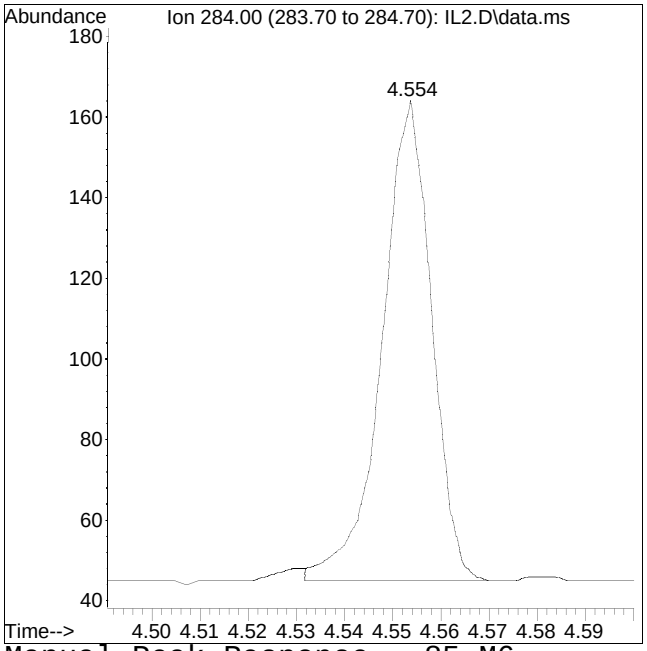
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 86



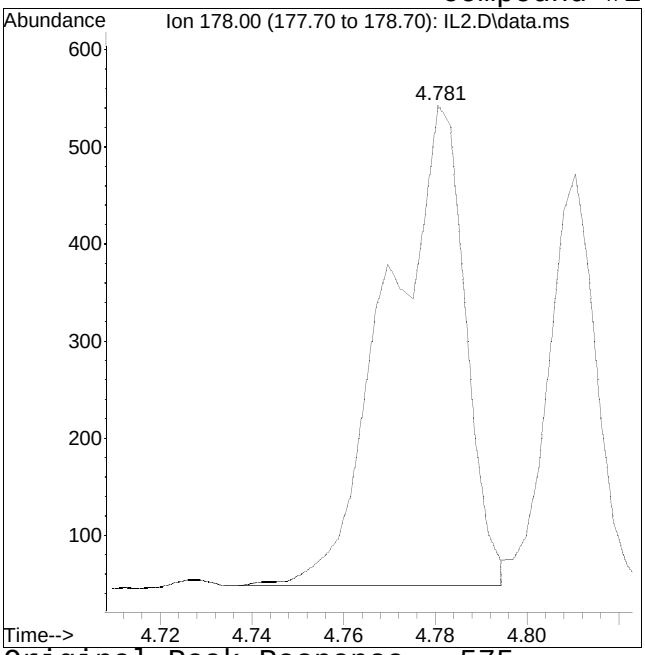
Manual Peak Response = 85 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

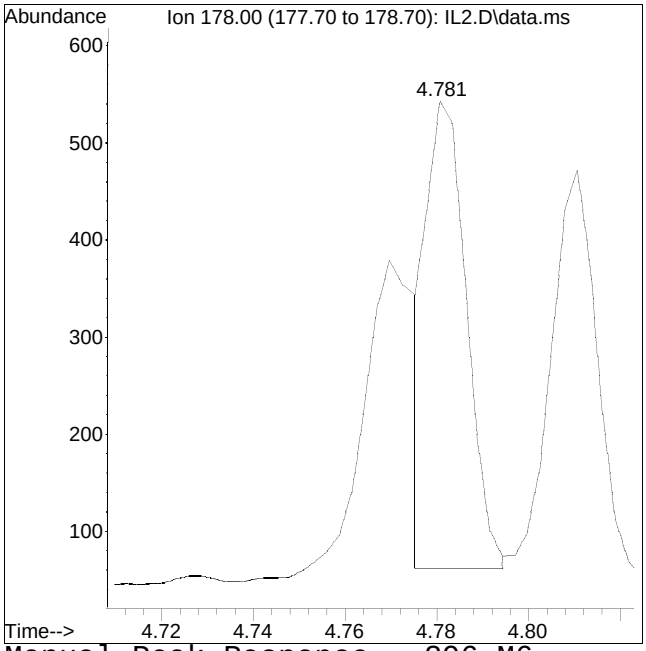
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #26: Phenanthrene



Original Peak Response = 575



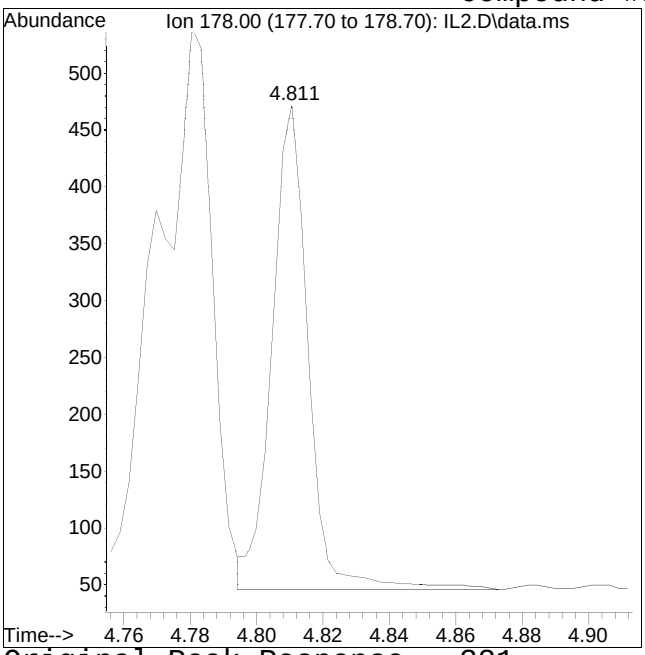
Manual Peak Response = 296 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

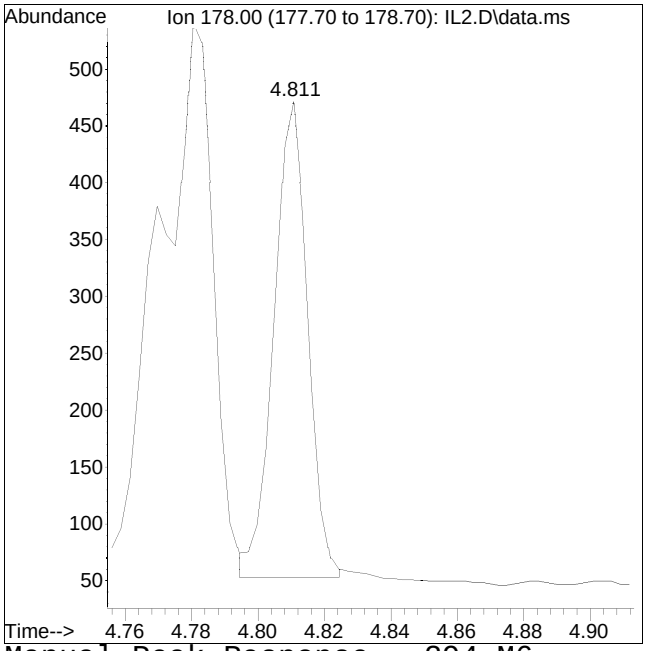
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #27: Anthracene



Original Peak Response = 321



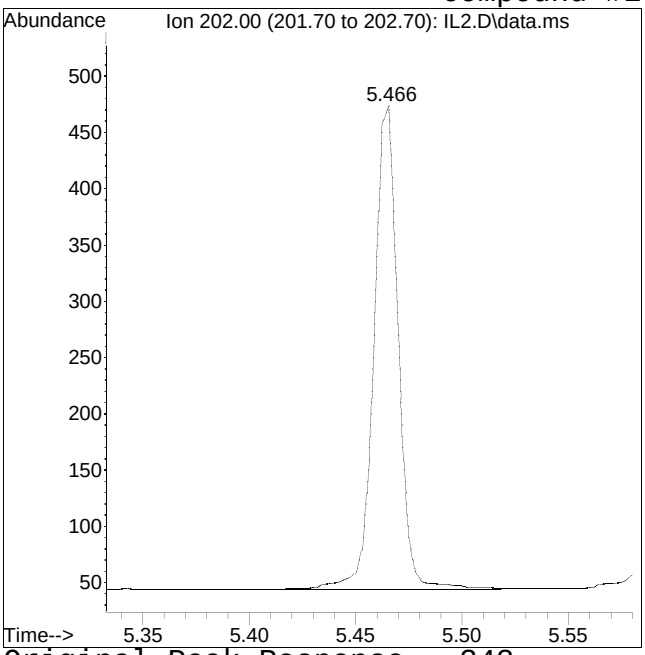
Manual Peak Response = 294 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

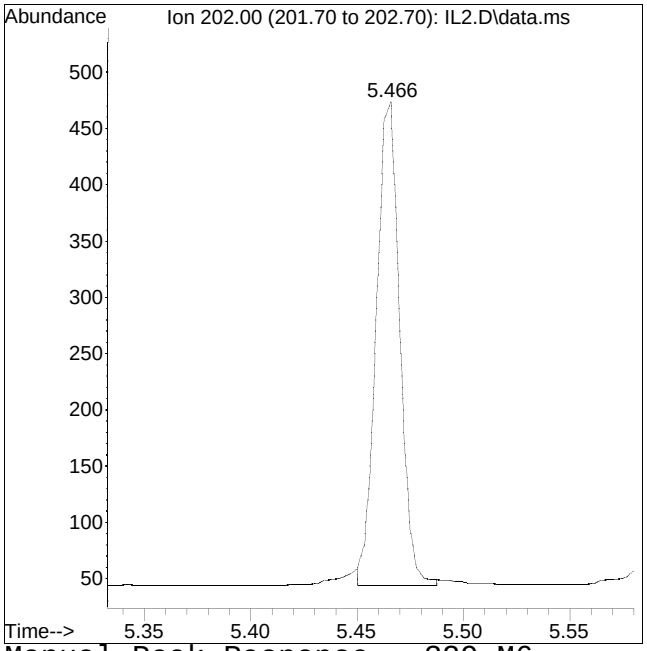
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #28: Fluoranthene



Original Peak Response = 343



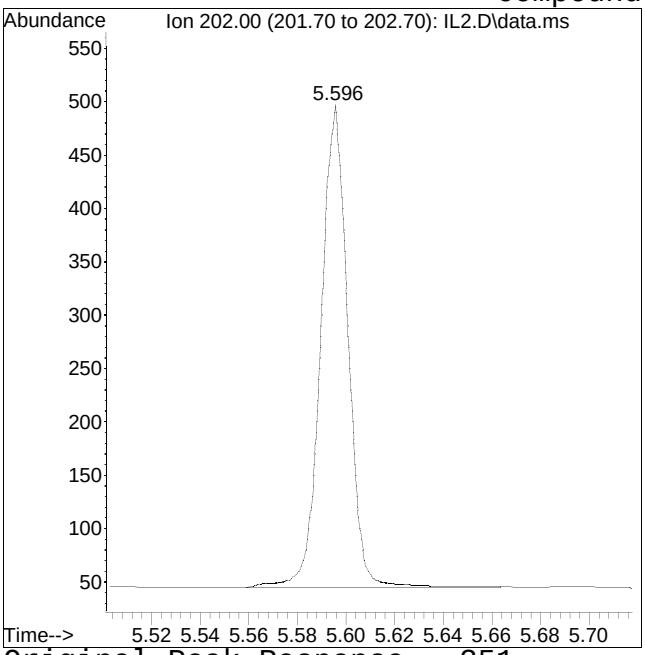
Manual Peak Response = 329 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

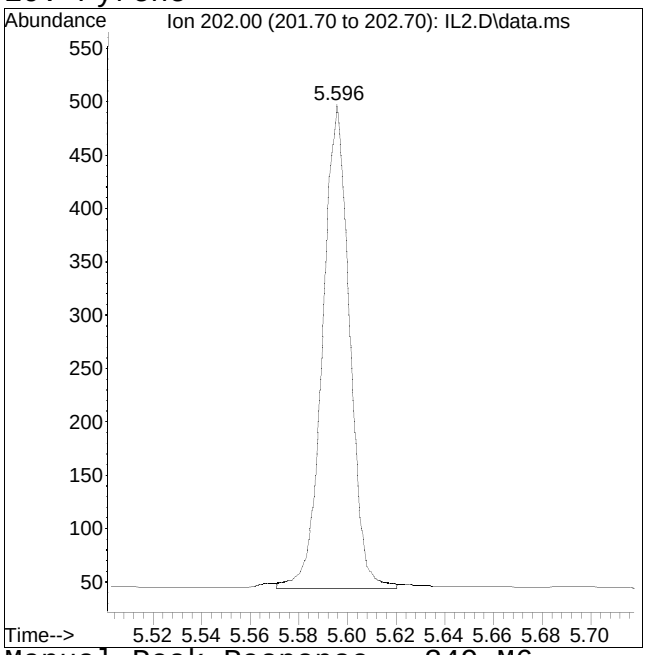
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #29: Pyrene



Original Peak Response = 351



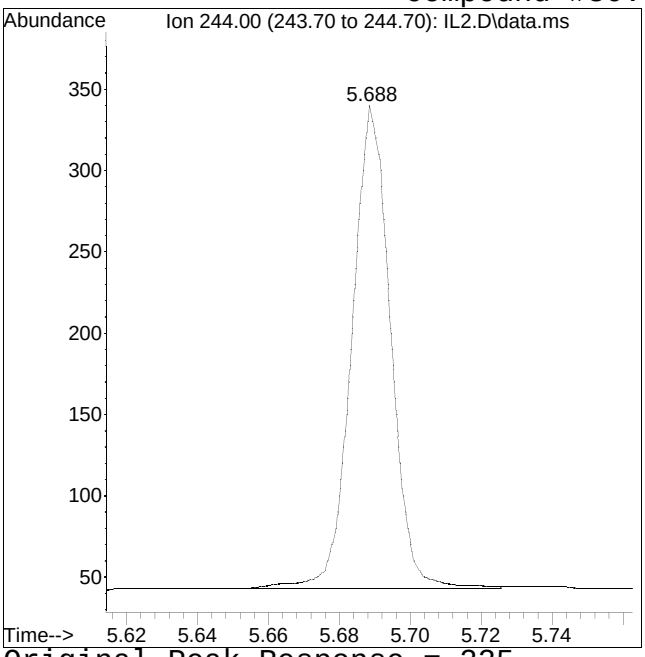
Manual Peak Response = 349 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

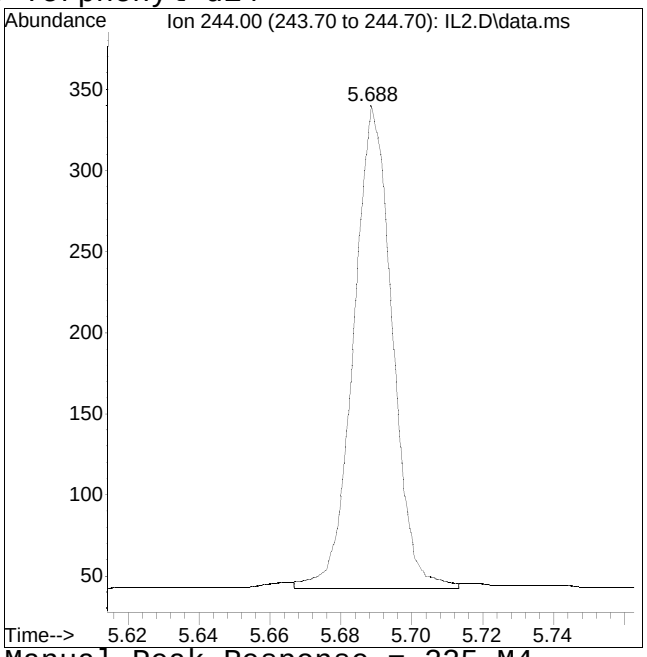
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 225



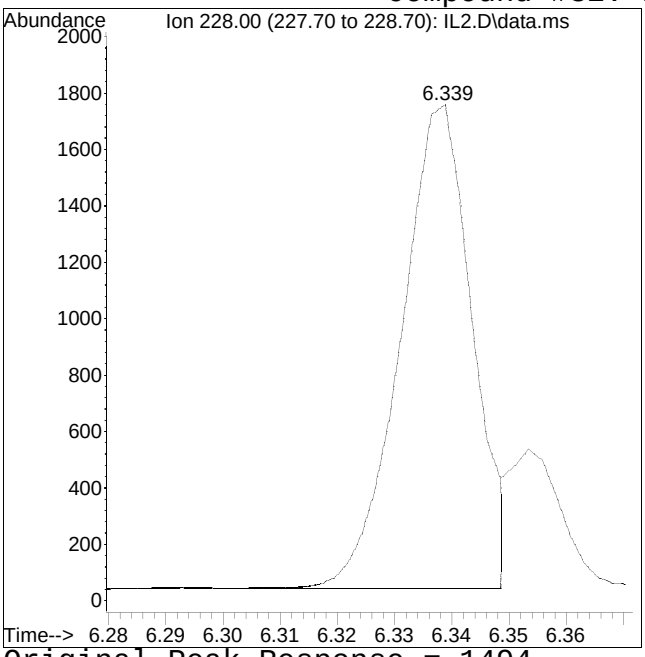
Manual Peak Response = 225 M4

M4 = Poor automated baseline construction.

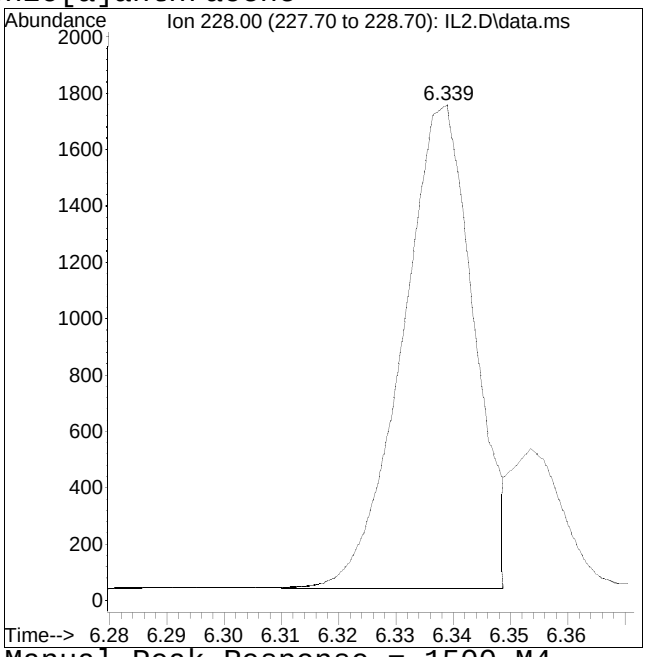
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1494



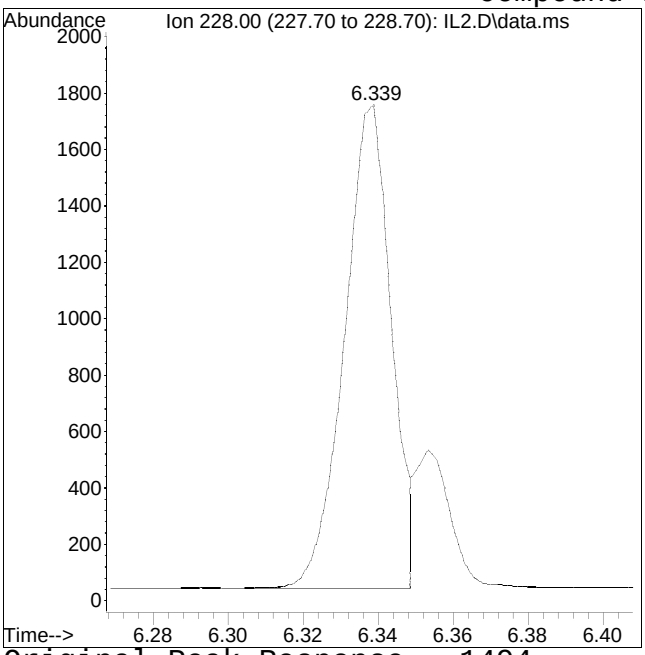
Manual Peak Response = 1500 M4

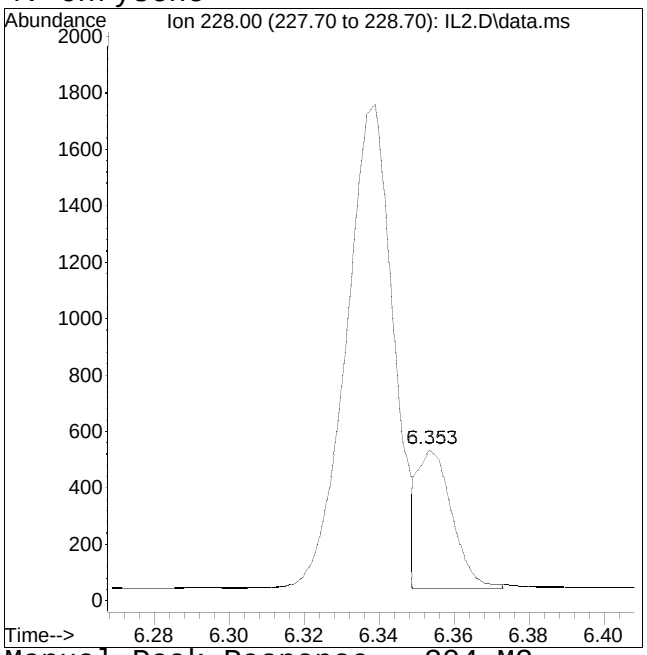
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #34: Chrysene





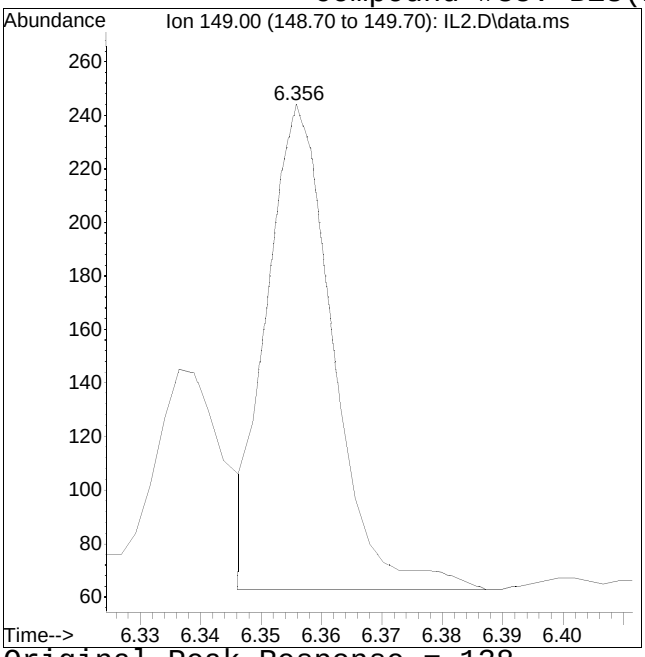
Original Peak Response = 1494 Manual Peak Response = 304 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

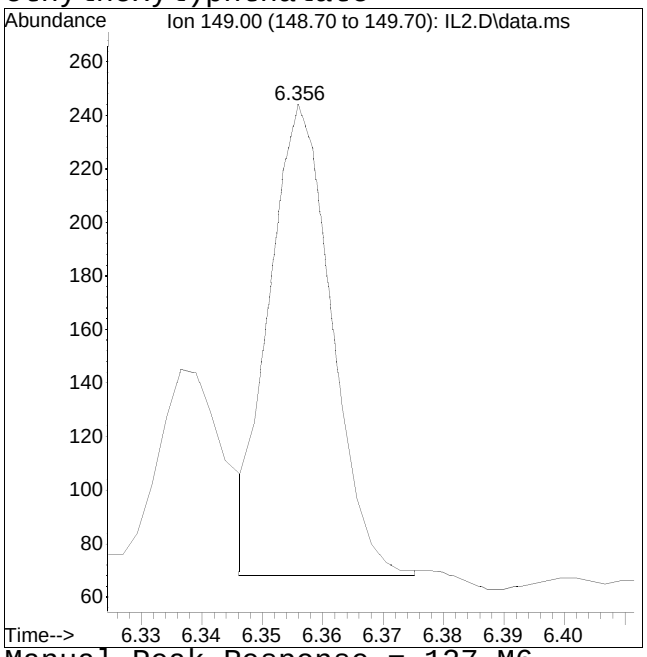
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 138



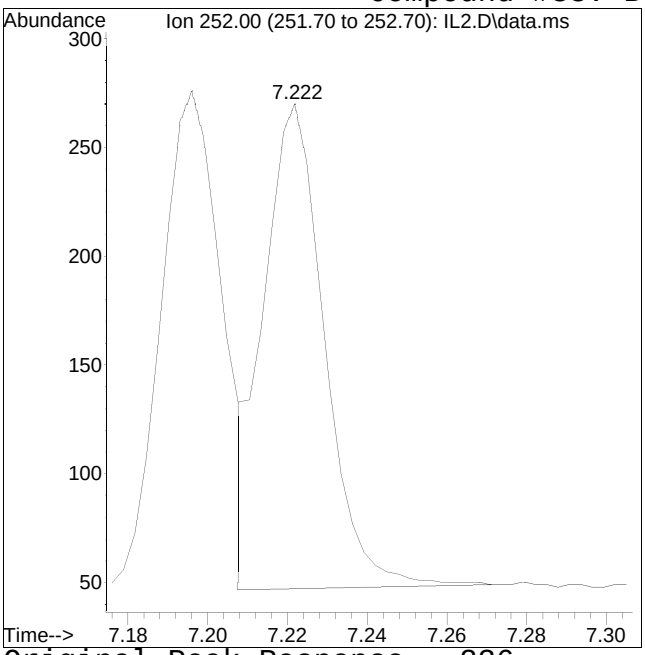
Manual Peak Response = 127 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

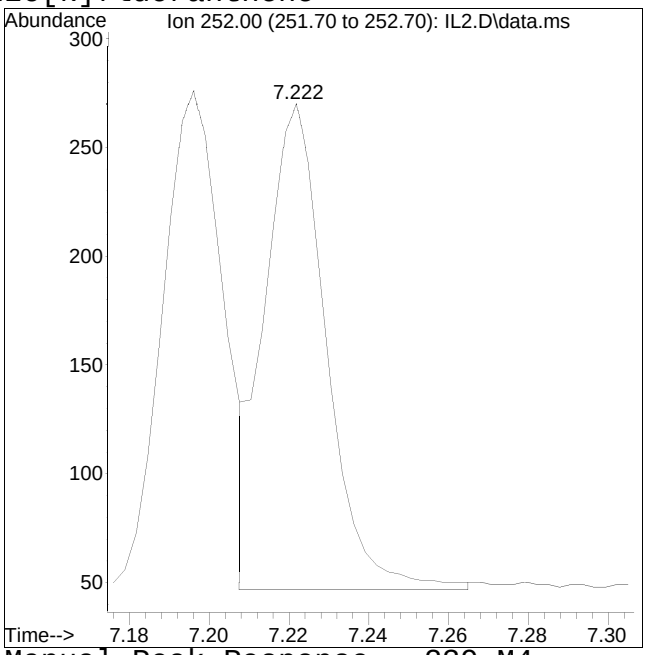
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL2.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:32 pm Instrument : SV120
Sample : IL2,32,,2.0ng/mL lot# 1075Quant Date : 5/30/2024 3:58 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 236

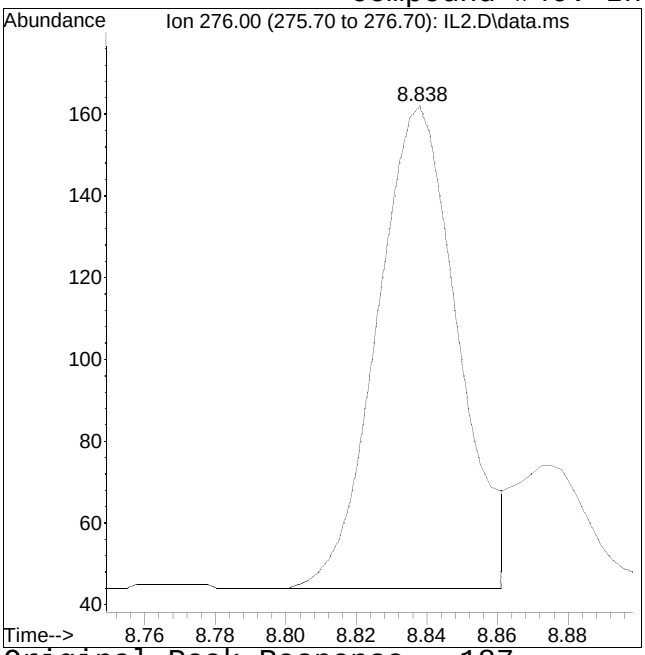


Manual Peak Response = 239 M4

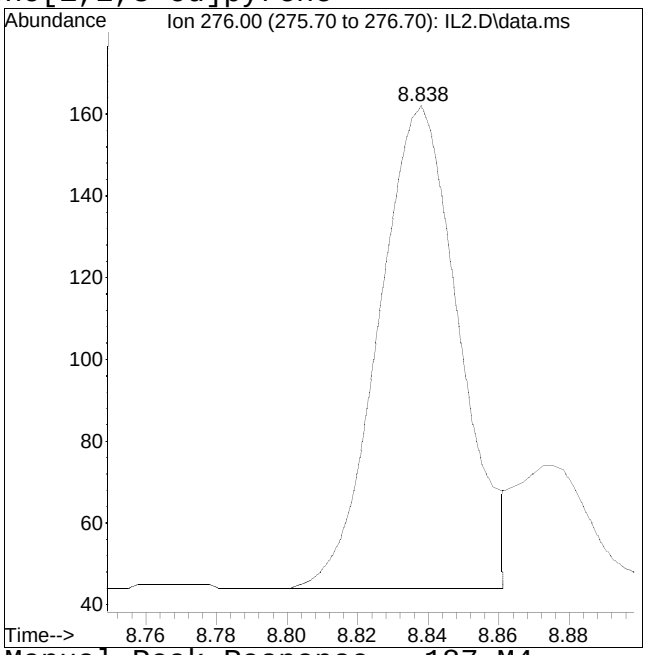
M4 = Poor automated baseline construction.

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 187



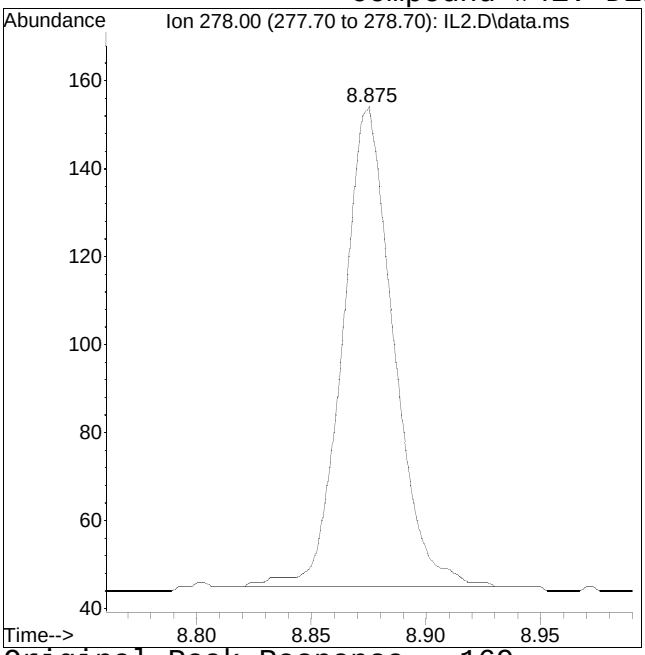
Manual Peak Response = 187 M4

M4 = Poor automated baseline construction.

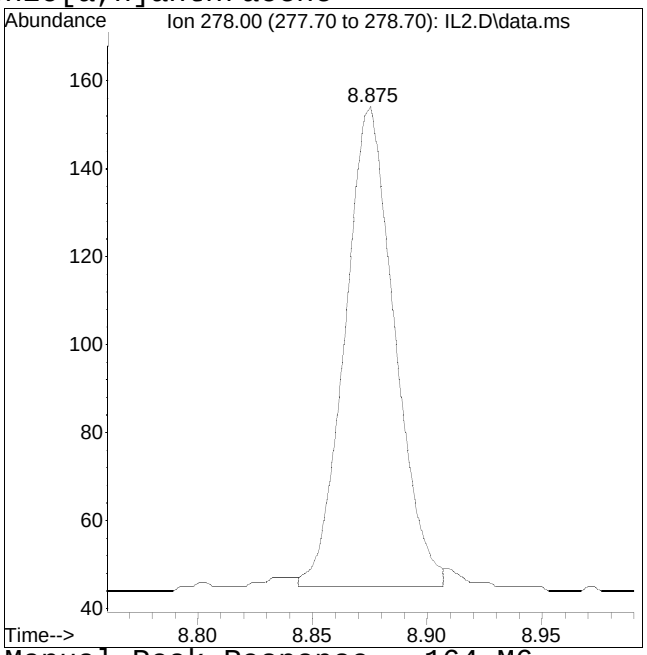
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL2.D
Date Inj'd : 5/21/2024 12:32 pm
Sample : IL2,32,,2.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/30/2024 3:58 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 169



Manual Peak Response = 164 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	155136	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 85.82%			
8) Naphthalene-d8	2.943	136	561509	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 85.41%			
17) Acenaphthene-d10	3.926	164	299449	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 84.78%			
22) Phenanthrene-d10	4.769	188	599573	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 87.43%			
31) Chrysene-d12	6.337	240	444724	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 87.28%			
36) Perylene-d12	7.585	264	408019	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 82.89%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	0.000	82	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.00%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
5) n-nitrosodi-n-propylamine	0.000		0	N.D. d		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.954	128	182M4	1.147	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.336	142	99	1.000	ng/ml	96
12) 1-Methylnaphthalene	3.393	142	97	1.041	ng/ml	98
14) 2-Chloronaphthalene	0.000		0	N.D. d		
15) 2,6-Dinitrotoluene	0.000		0	N.D.		
16) Acenaphthylene	3.843	152	144M6	0.964	ng/ml	
18) Acenaphthene	3.943	153	107M7	1.032	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.235	166	120	1.084	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.553	284	48M4	1.110	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.782	178	154M6	0.911	ng/ml	
27) Anthracene	4.810	178	187M6	1.119	ng/ml	
28) Fluoranthene	5.464	202	209M6	1.136	ng/ml	
29) Pyrene	5.594	202	214	1.128	ng/ml	97
32) Benzo[a]anthracene	6.337	228	1511M6	1.250	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.351	228	157M3	0.974	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	7.192	252	155M4	1.151	ng/ml	
38) Benzo[k]fluoranthene	7.218	252	131M6	1.017	ng/ml	
39) Benzo[a]pyrene	7.517	252	119M4	1.074	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.834	276	105M4	1.002	ng/ml	
41) Dibenzo[a,h]anthracene	8.874	278	96M6	0.947	ng/ml	
42) Benzo[g,h,i]perylene	9.187	276	108M4	1.014	ng/ml	

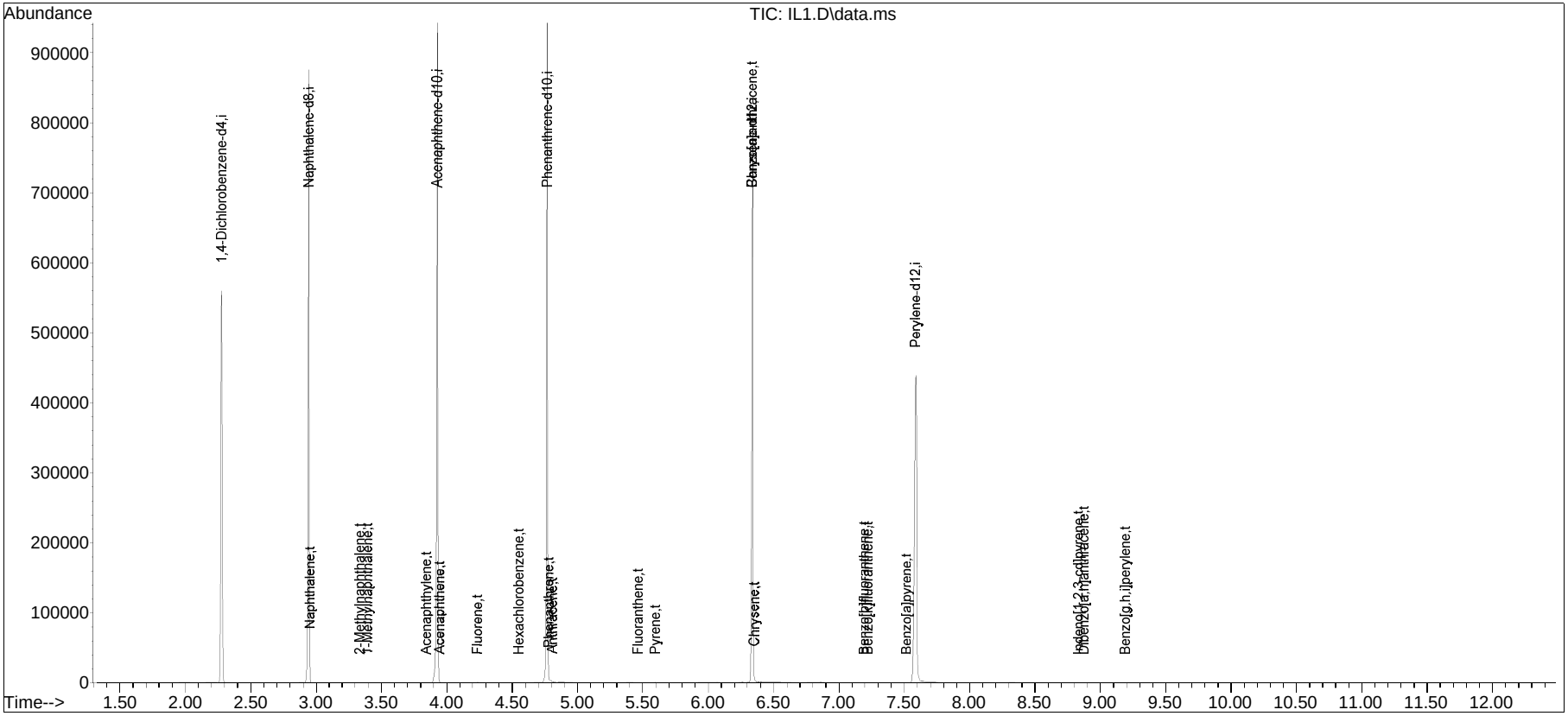
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL1.D
Acq On : 21 May 2024 12:48 pm
Operator : SV120:dv
Sample : IL1,32,,1.0ng/mL lot# 10759
Misc : WG1927083,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 30 11:20:47 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed May 29 13:00:08 2024
Response via : Initial Calibration

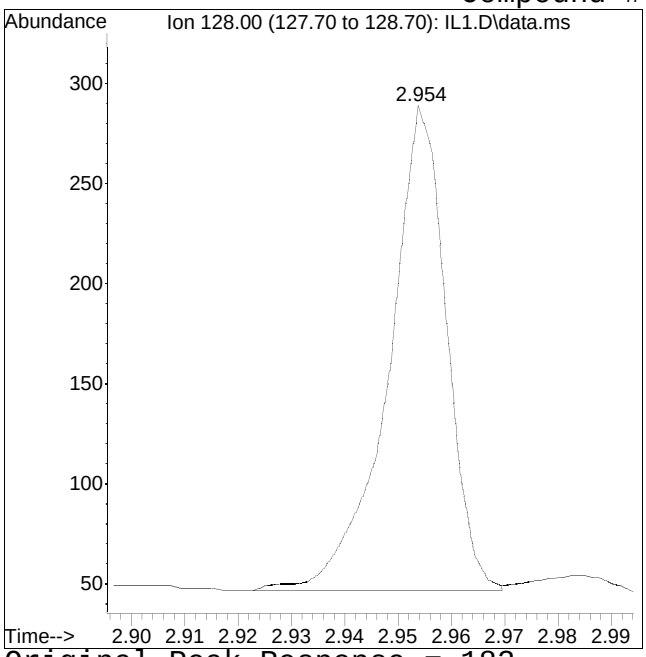
Sub List : Default - All compounds listedical\IL8.D•



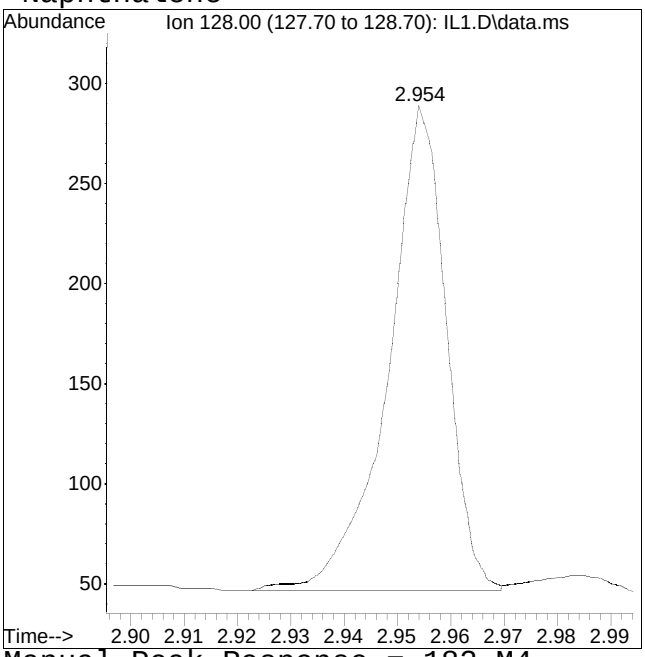
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #9: Naphthalene



Original Peak Response = 182



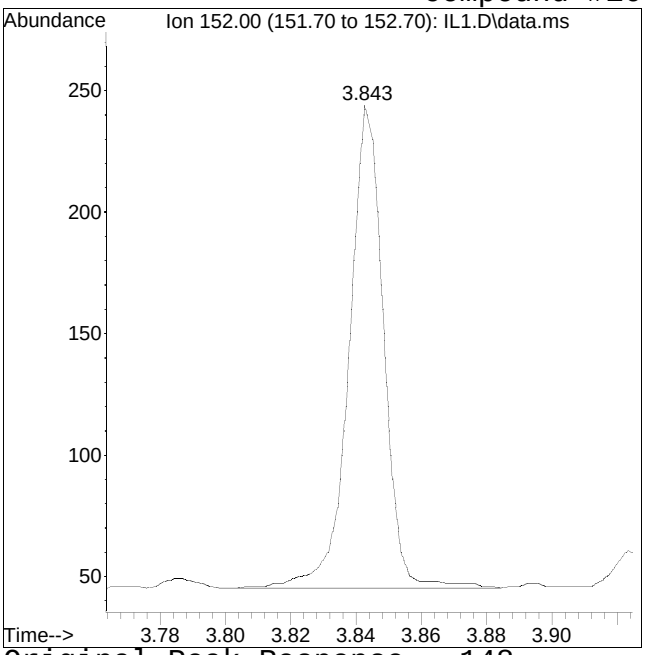
Manual Peak Response = 182 M4

M4 = Poor automated baseline construction.

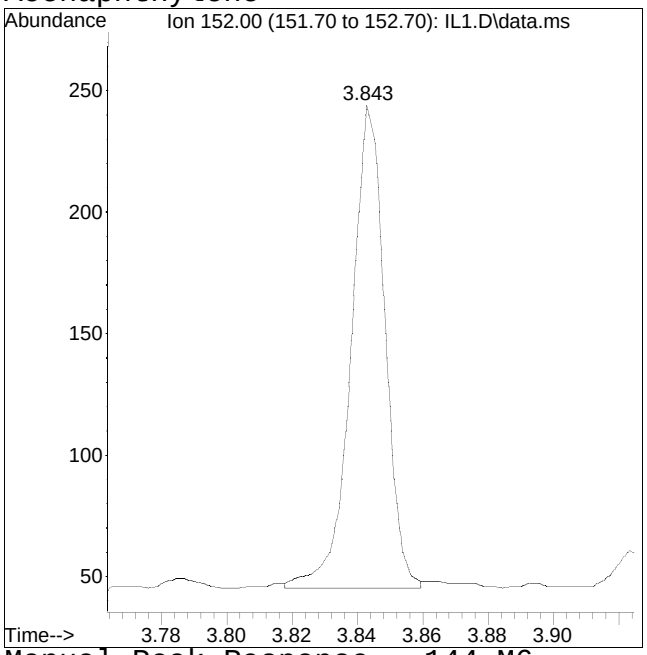
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #16: Acenaphthylene



Original Peak Response = 148



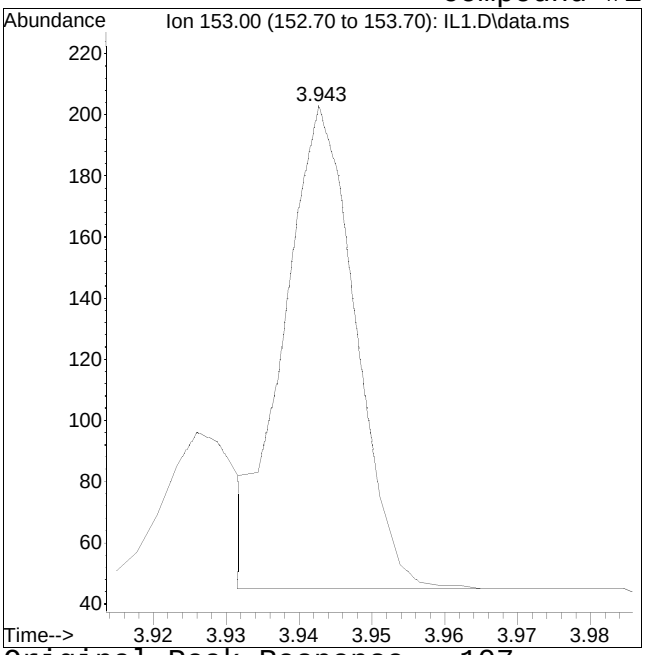
Manual Peak Response = 144 M6

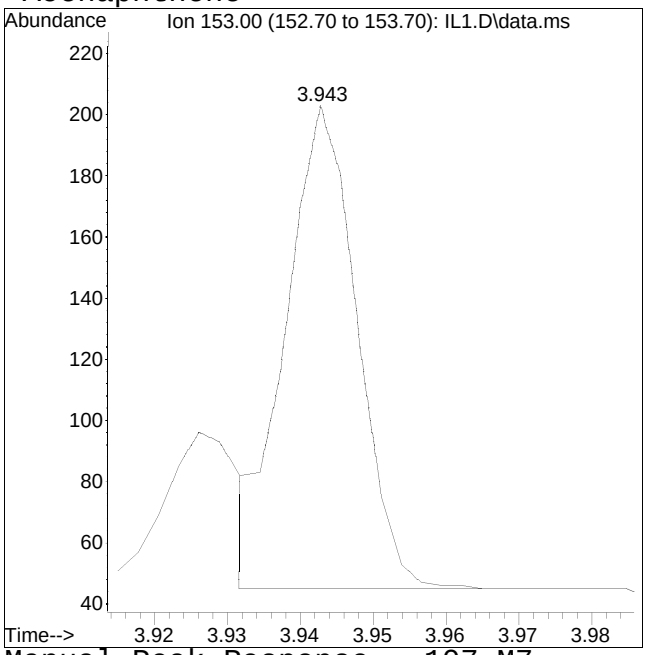
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #18: Acenaphthene



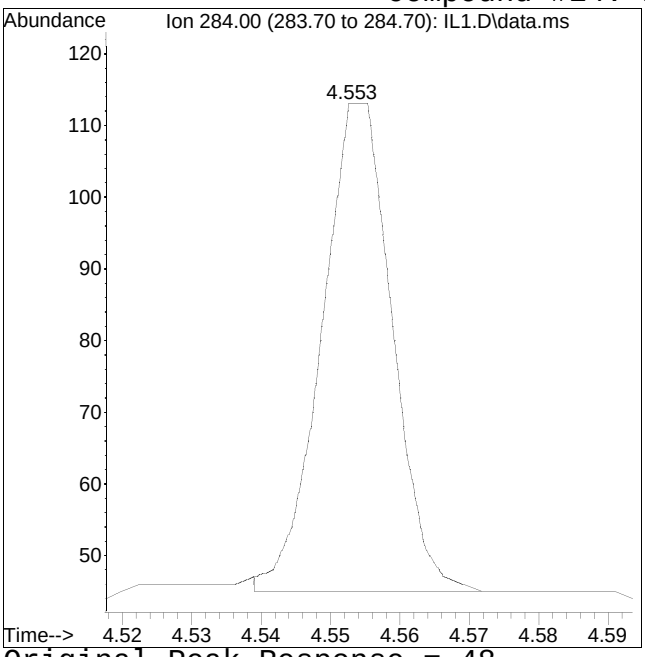


Original Peak Response = 107 Manual Peak Response = 107 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

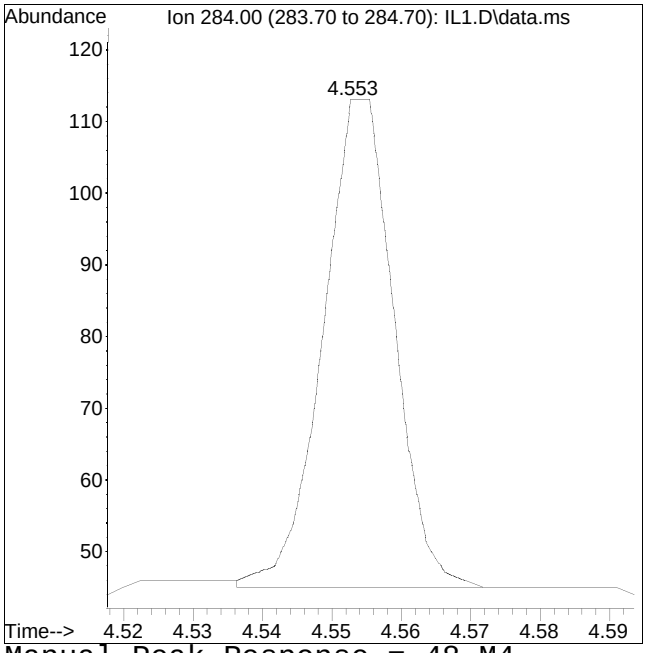
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 48



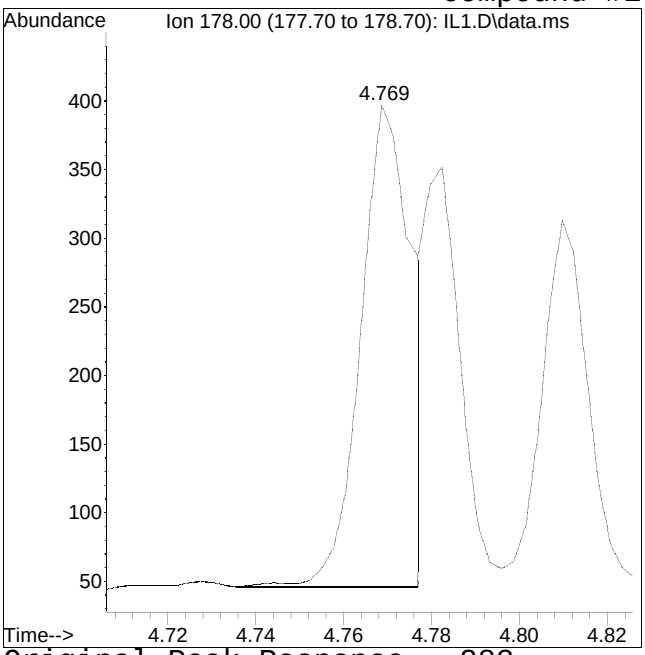
Manual Peak Response = 48 M4

M4 = Poor automated baseline construction.

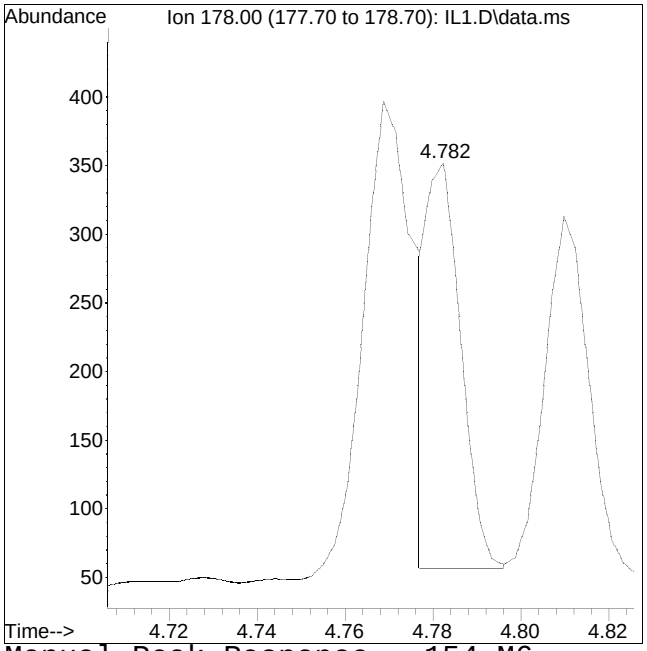
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL1.D Operator : SV120:dv
Date Inj'd : 5/21/2024 12:48 pm Instrument : SV120
Sample : IL1,32,,1.0ng/mL lot# 1075Quant Date : 5/29/2024 1:00 pm

Compound #26: Phenanthrene



Original Peak Response = 283



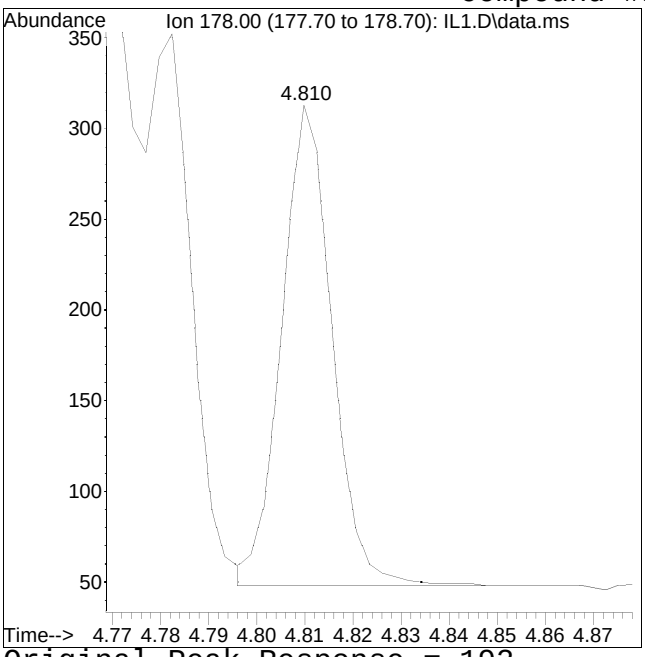
Manual Peak Response = 154 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

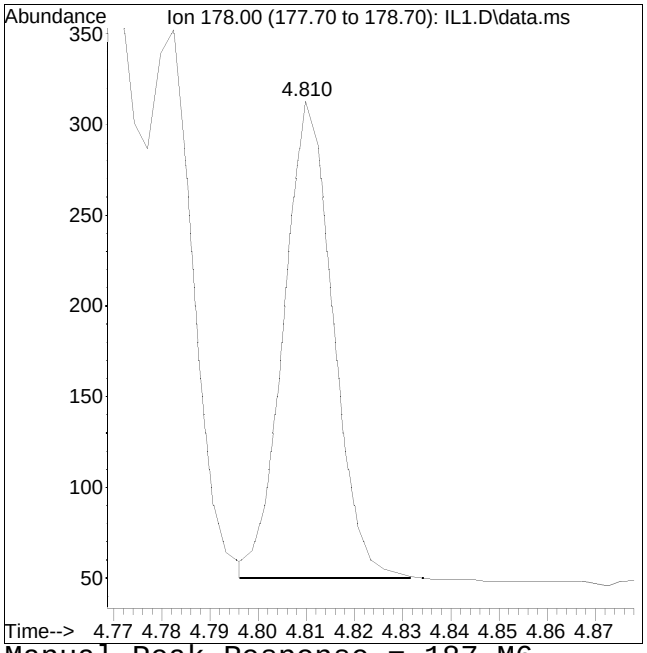
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #27: Anthracene



Original Peak Response = 192



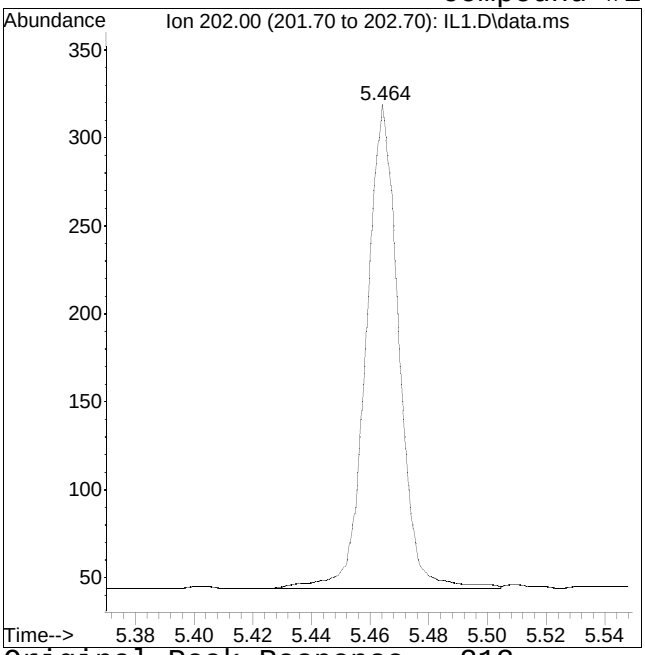
Manual Peak Response = 187 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

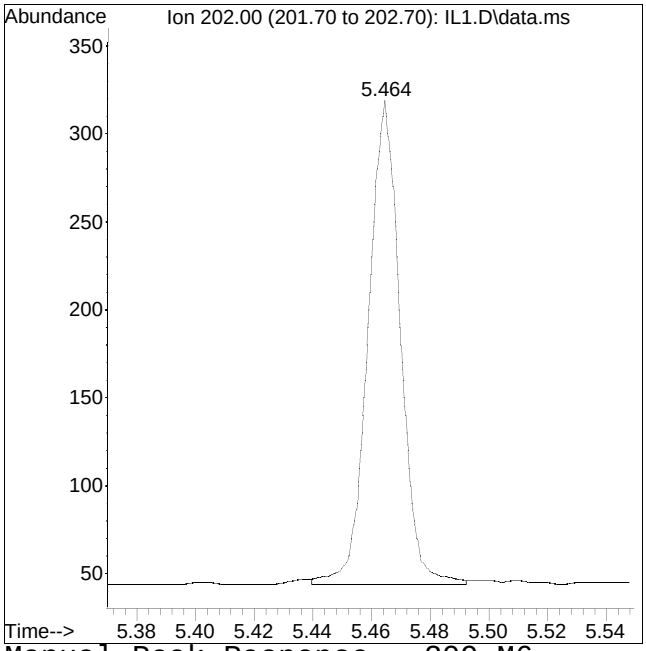
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #28: Fluoranthene



Original Peak Response = 212



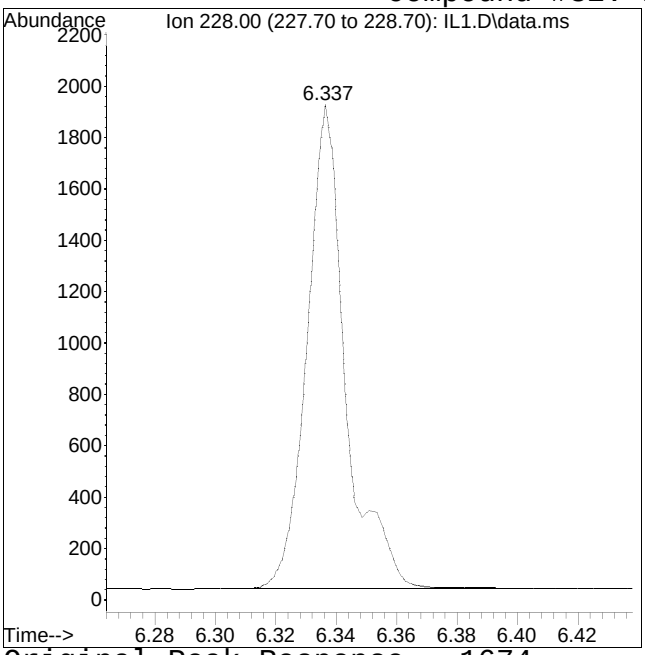
Manual Peak Response = 209 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

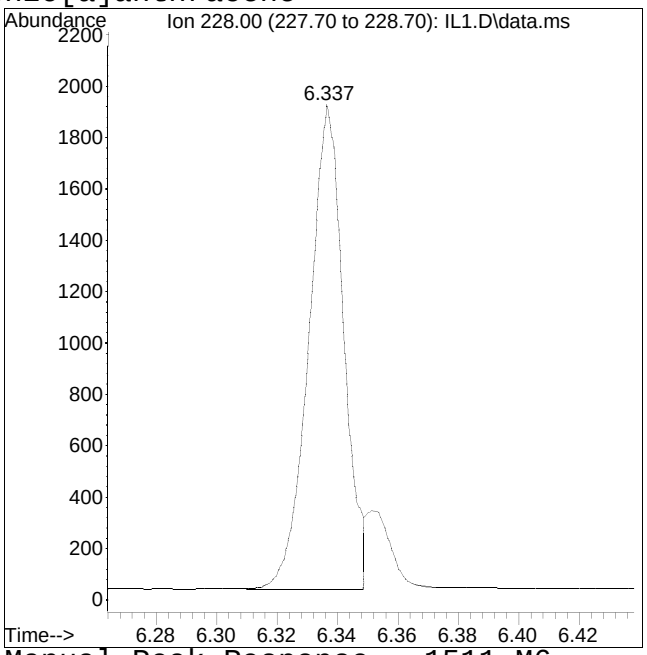
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 1674



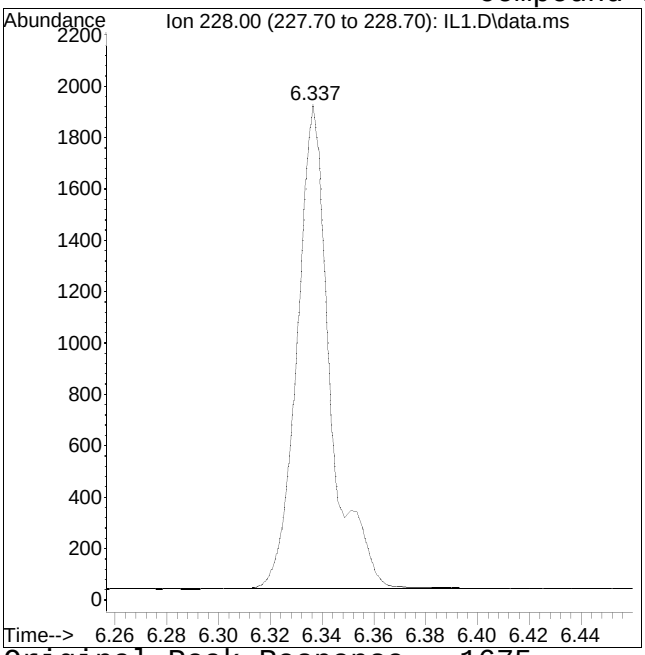
Manual Peak Response = 1511 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

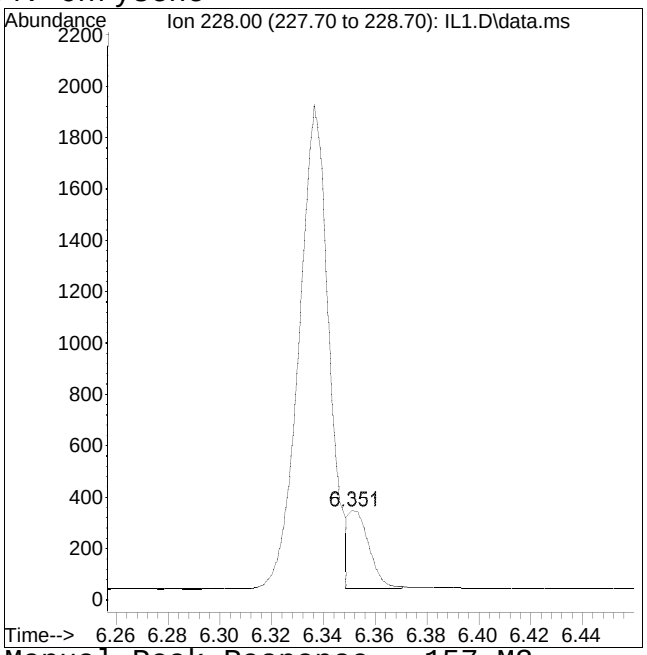
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #34: Chrysene



Original Peak Response = 1675



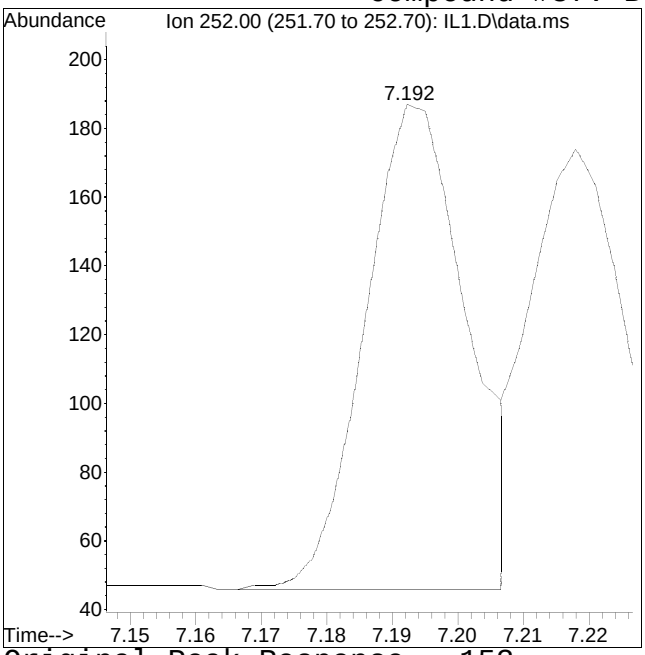
Manual Peak Response = 157 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

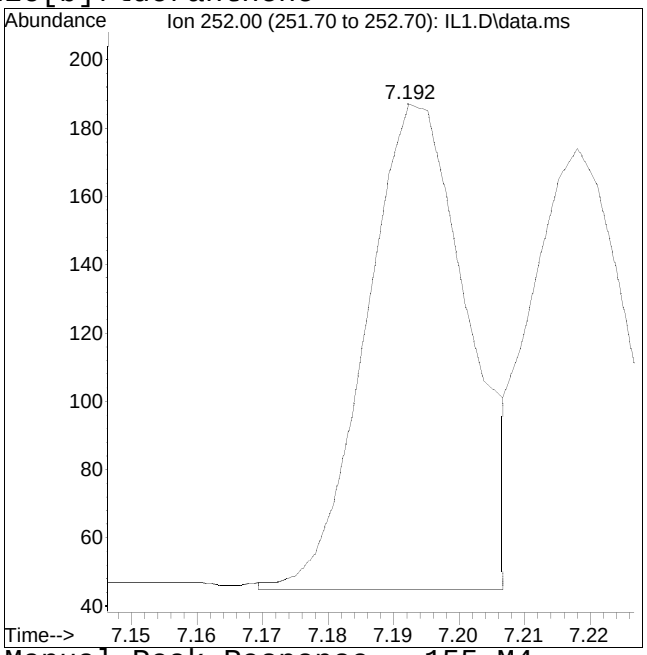
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 153



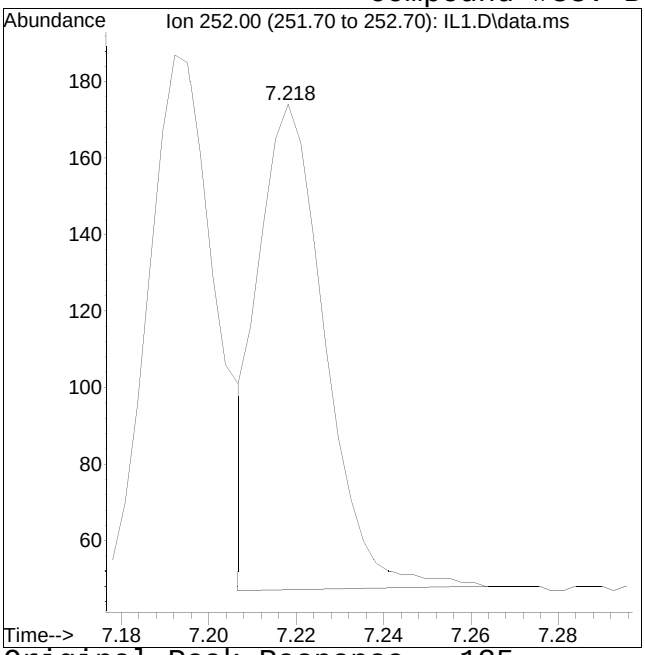
Manual Peak Response = 155 M4

M4 = Poor automated baseline construction.

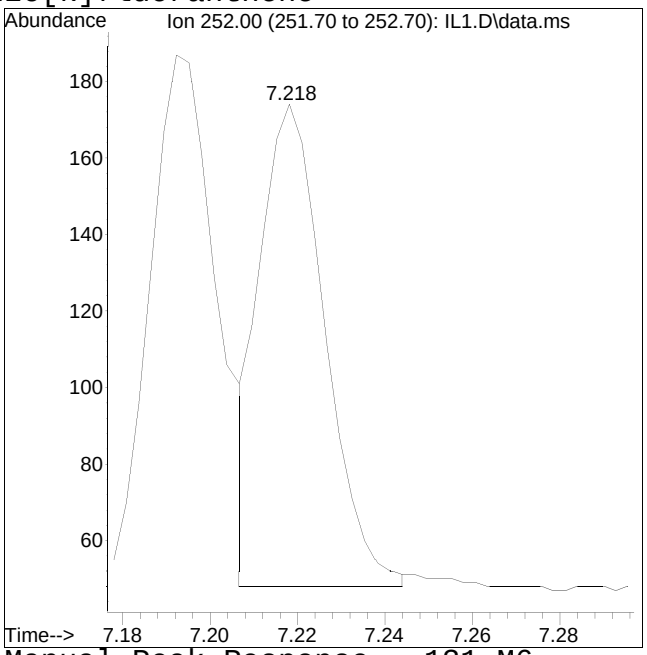
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 135



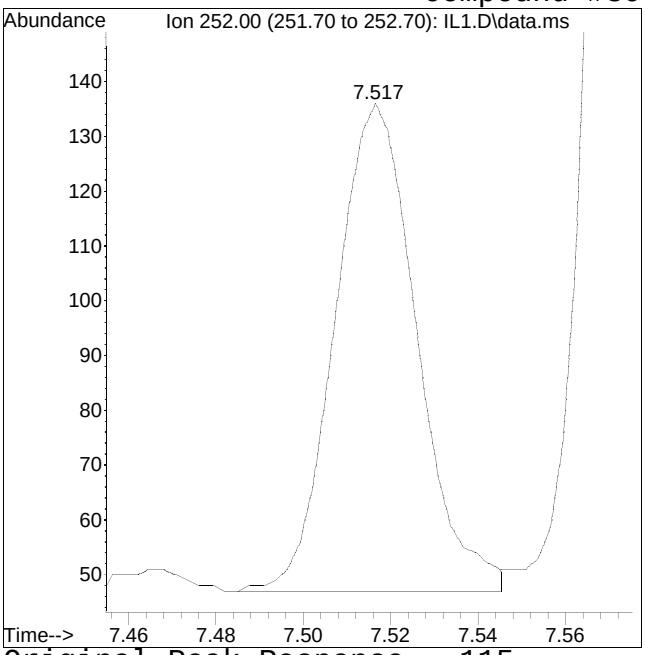
Manual Peak Response = 131 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

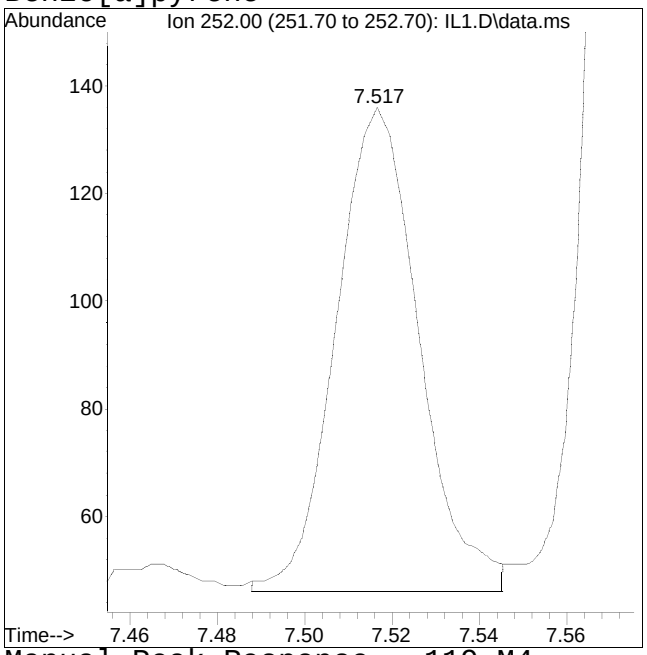
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 115



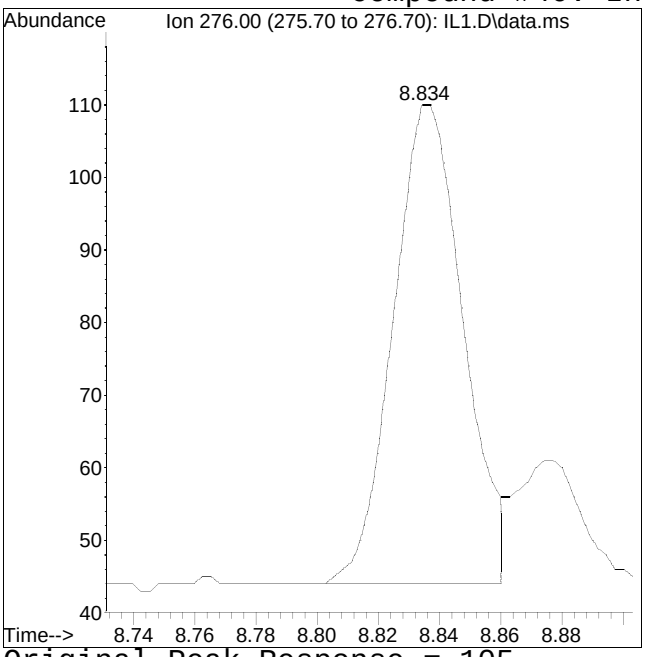
Manual Peak Response = 119 M4

M4 = Poor automated baseline construction.

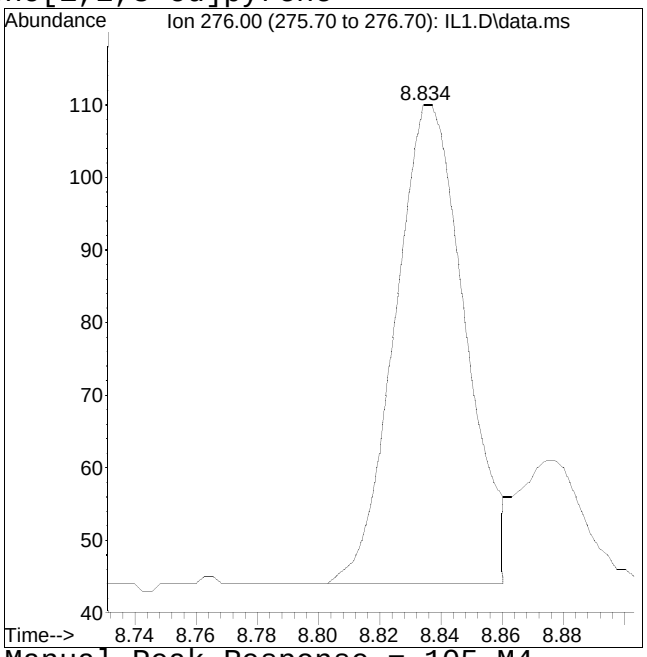
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 105



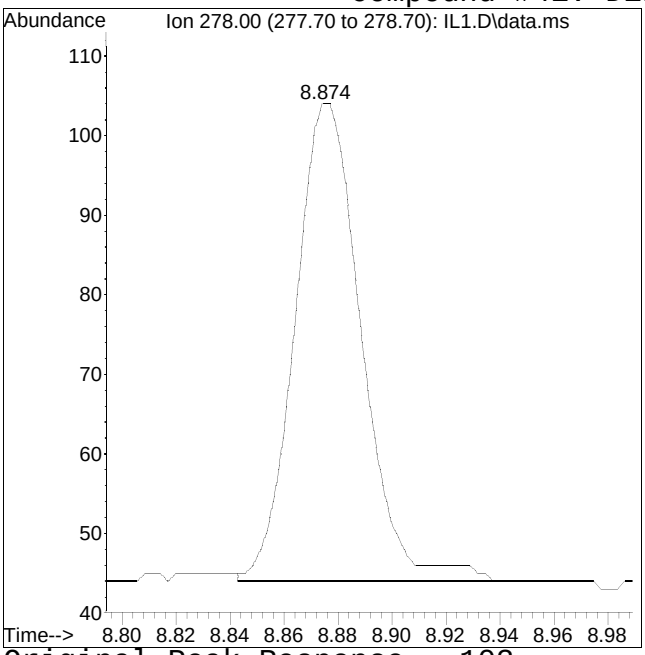
Manual Peak Response = 105 M4

M4 = Poor automated baseline construction.

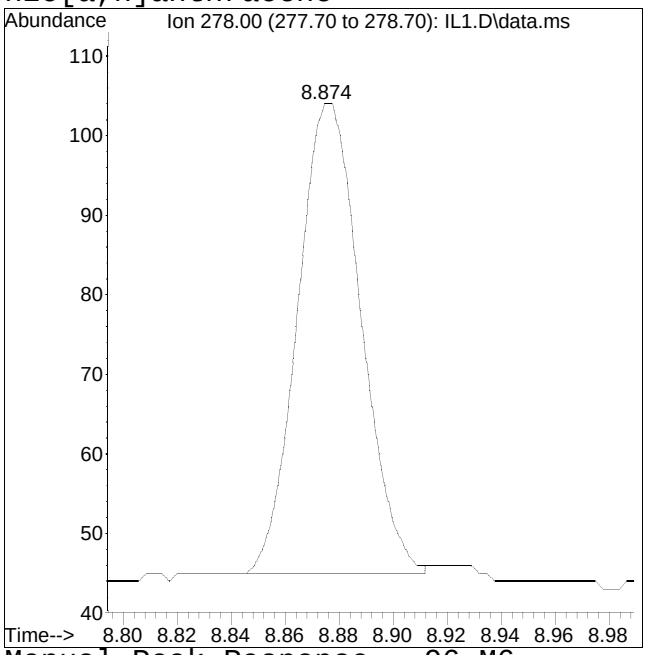
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 103



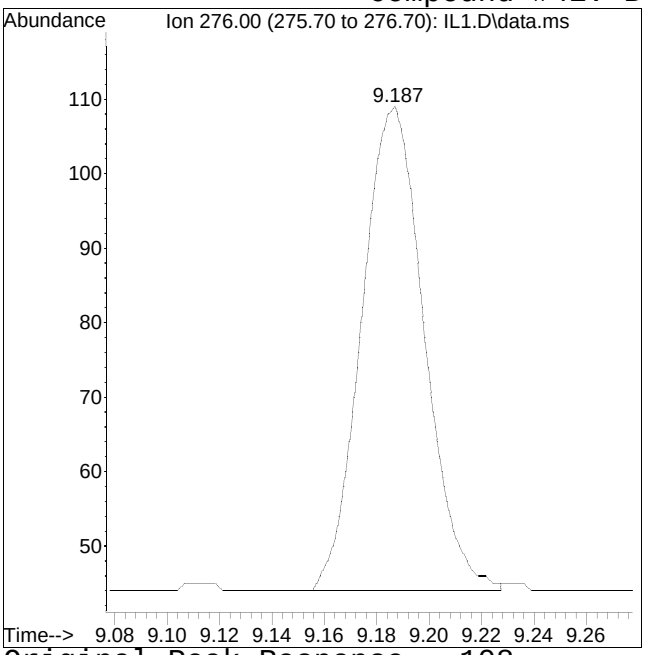
Manual Peak Response = 96 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

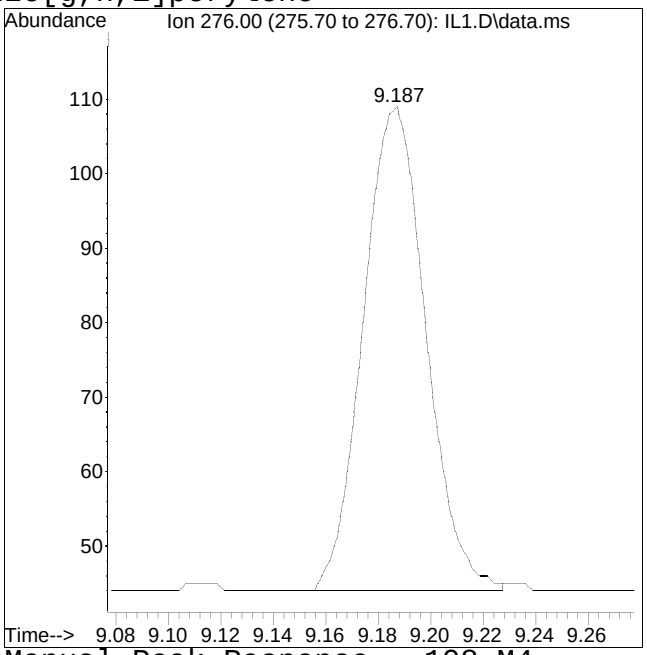
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQ
Data File : IL1.D
Date Inj'd : 5/21/2024 12:48 pm
Sample : IL1,32,,1.0ng/mL lot# 1075
Method : SIM-RVT_240521_sv120.M
Operator : SV120:dv
Instrument : SV120
Quant Date : 5/29/2024 1:00 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 108



Manual Peak Response = 108 M4

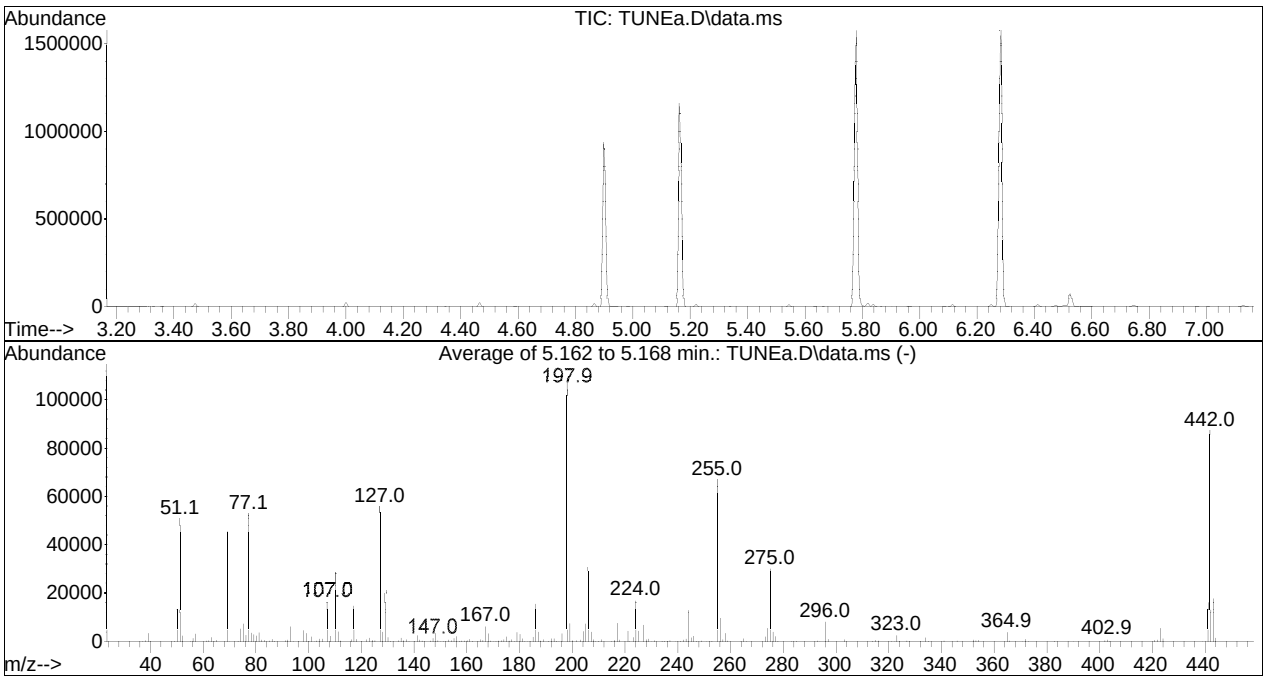
M4 = Poor automated baseline construction.

DFTPP

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed May 29 13:17:11 2024



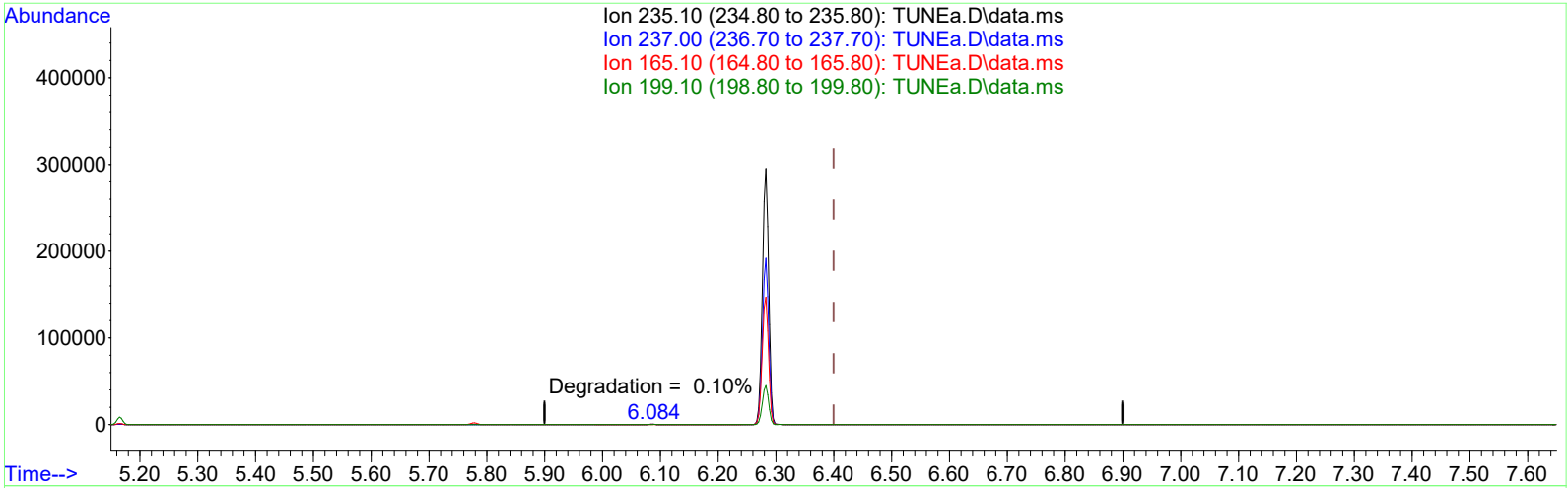
Spectrum Information: Average of 5.162 to 5.168 min.

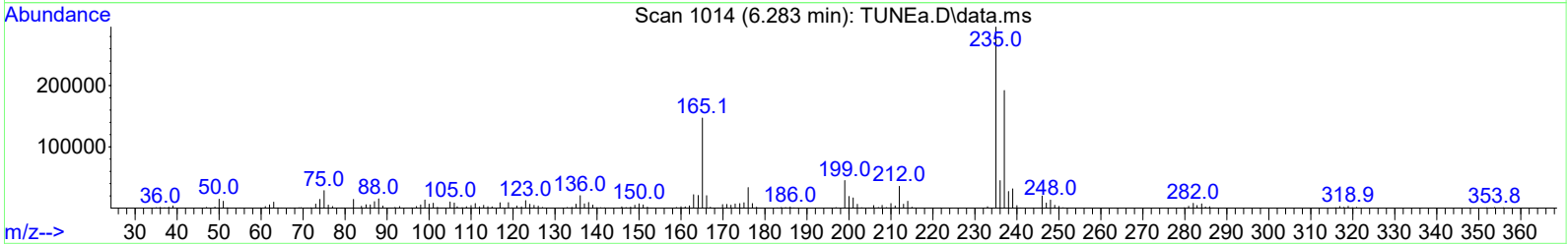
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.4	50643	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	45443	PASS
70	69	0.00	2	0.4	188	PASS
127	198	10	80	51.0	55709	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109139	PASS
199	198	5	9	6.8	7464	PASS
275	198	10	60	27.5	30013	PASS
365	198	1	100	3.6	3976	PASS
441	442	0.01	24	18.1	15825	PASS
442	198	50	100	79.9	87235	PASS
443	442	15	24	20.4	17828	PASS

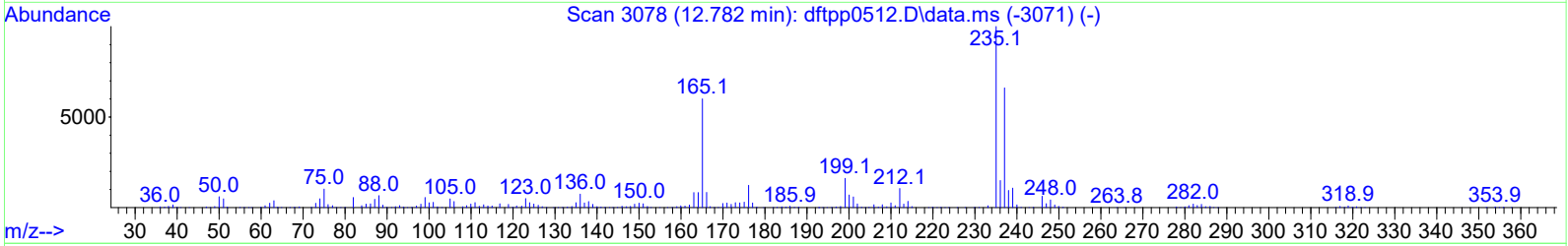
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(6) ddt (T)

6.283min (-0.117) 36.85

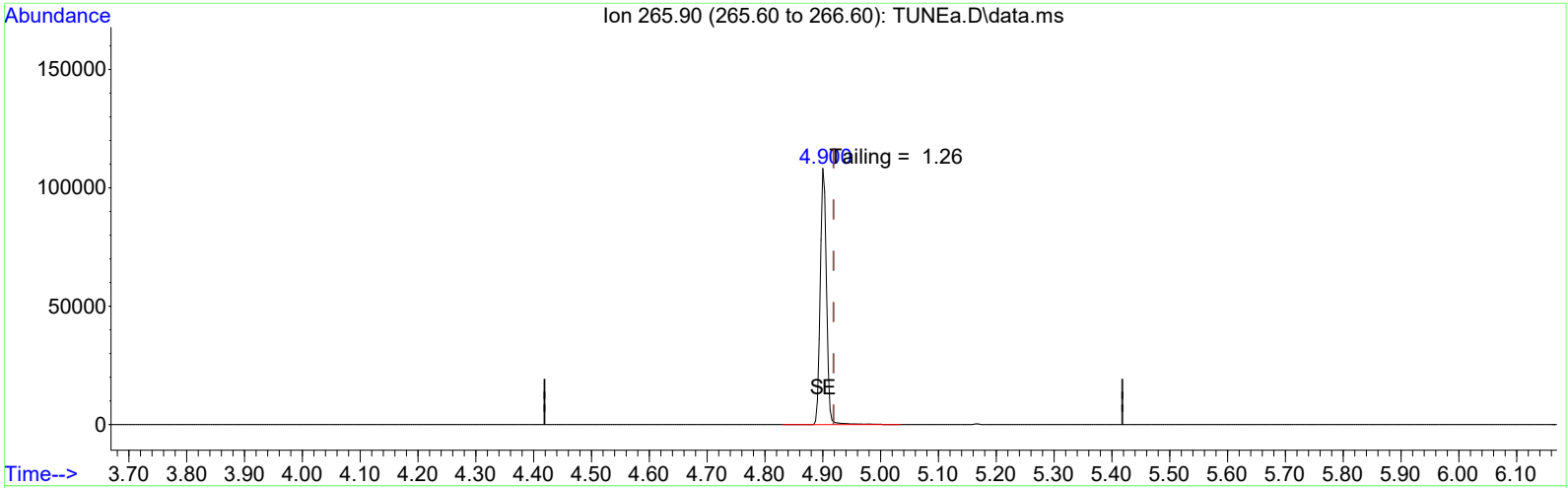
response 224634

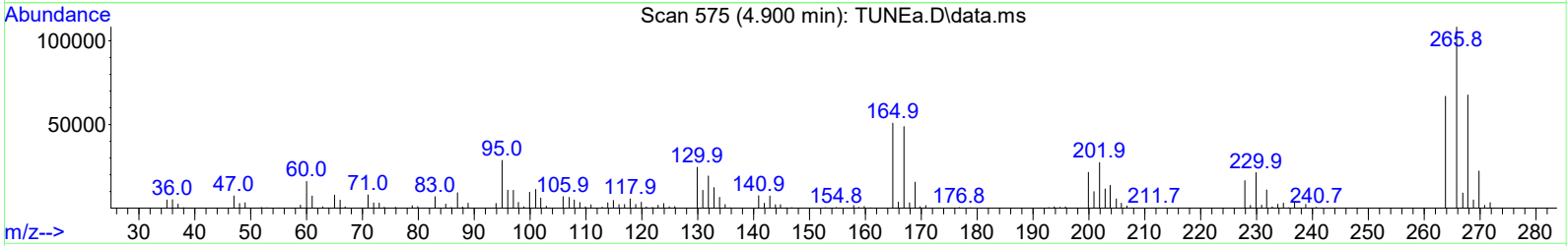
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.73
165.10	53.30	50.08
199.10	17.10	15.33

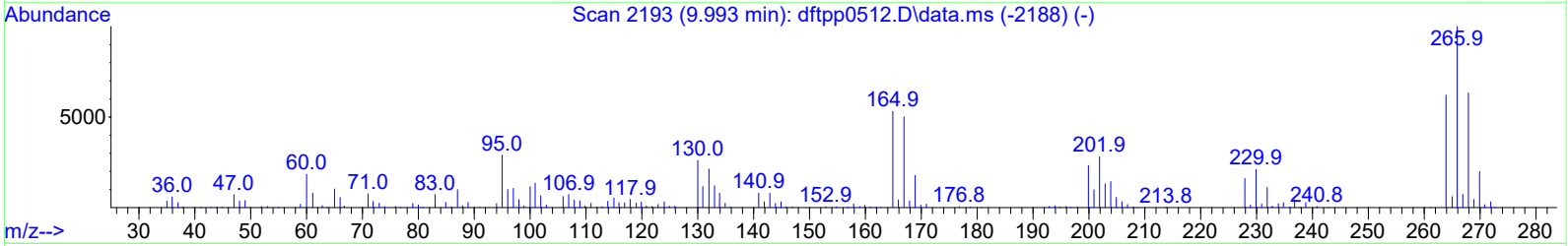
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(1) pentachlorophenol (T)

4.900min (-0.019) 38.60

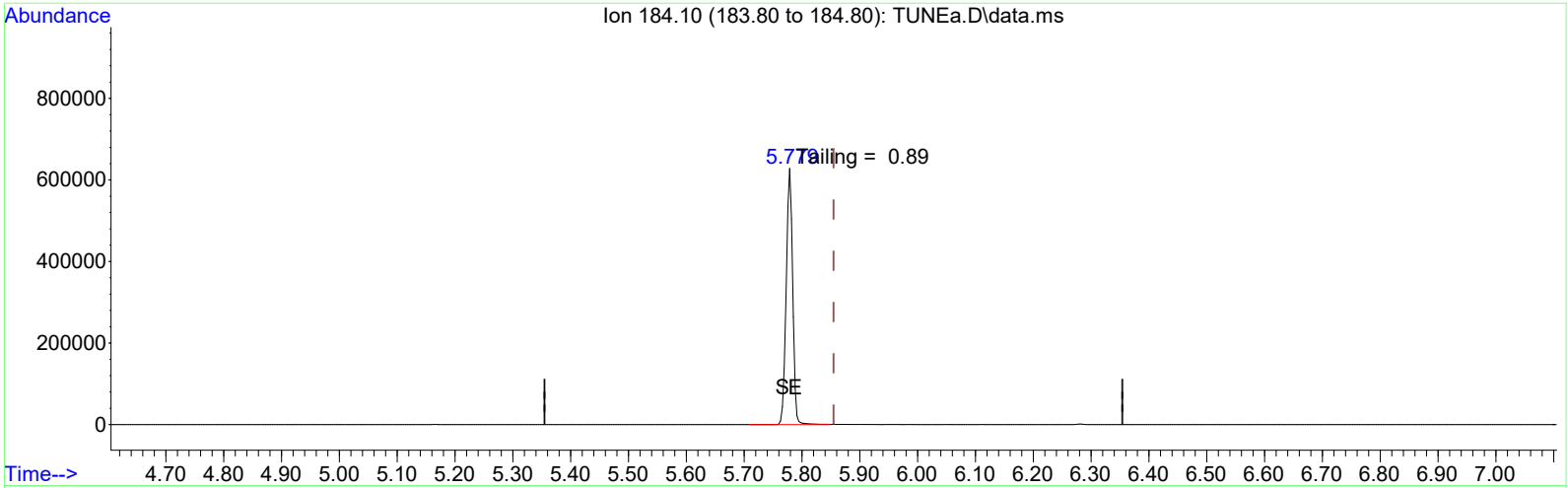
response 81073

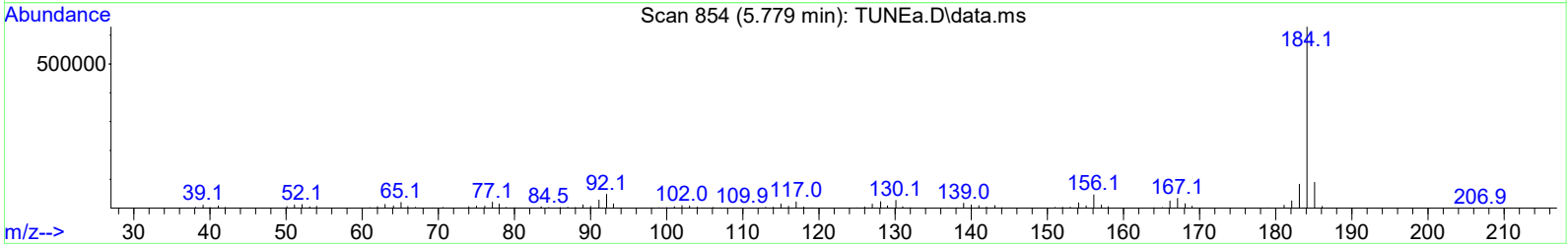
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

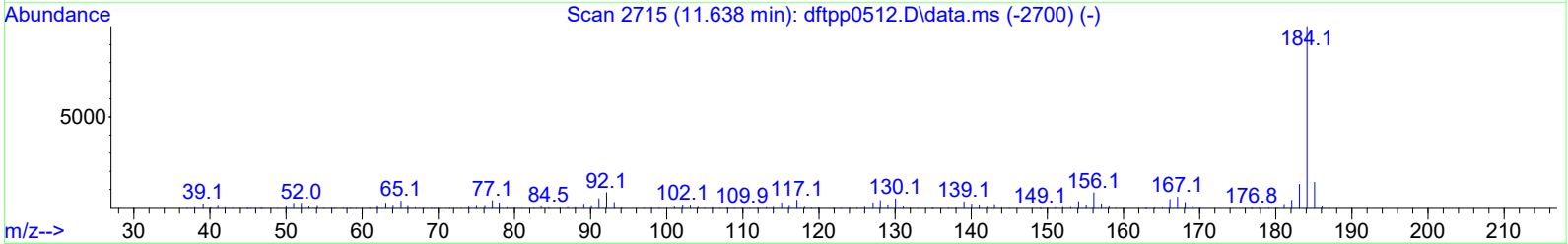
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : TUNEa.D
Acq On : 22 May 2024 01:16 pm
Operator : SV120:dv
Sample : TUNEa
Misc : WG1927083,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: May 22 13:45:01 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 21 13:07:32 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







CHROMtools™ [TUNEa]

(3) benzidine (T)

5.779min (-0.076) 48.01

response 488726

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.279	152	116118	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 64.24%			
8) Naphthalene-d8	2.949	136	441676	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 67.18%			
17) Acenaphthene-d10	3.932	164	249746	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 70.71%			
22) Phenanthrene-d10	4.773	188	519360	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 75.73%			
31) Chrysene-d12	6.339	240	437534	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 85.87%			
36) Perylene-d12	7.586	264	468674	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 95.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	167303	4847.732	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 242.39%#			
3) Phenol-d6	2.091	99	214369	5167.436	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 258.37%#			
7) Nitrobenzene-d5	2.561	82	197495	5343.274	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 534.33%#			
13) 2-Fluorobiphenyl	3.549	172	446198	4751.132	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 475.11%#			
21) 2,4,6-Tribromophenol	4.381	330	84158	4945.577	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 247.28%#			
30) 4-Terphenyl-d14	5.689	244	522792	4947.279	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 247.36%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.144	93	180003	4909.394	ng/ml	97
5) n-nitrosodi-n-propylamine	2.483	70	138328	5501.789	ng/ml	99
6) Hexachloroethane	2.540	117	80781	4862.504	ng/ml	100
9) Naphthalene	2.959	128	572864	4588.597	ng/ml	99
10) Hexachlorobutadiene	3.032	225	110497	4626.803	ng/ml	100
11) 2-Methylnaphthalene	3.343	142	383898	4928.642	ng/ml	99
12) 1-Methylnaphthalene	3.396	142	353973	4828.279	ng/ml	99
14) 2-Chloronaphthalene	3.615	162	390951	4910.820	ng/ml	100
15) 2,6-Dinitrotoluene	3.813	165	102306	5059.351	ng/ml	96
16) Acenaphthylene	3.852	152	630761	5383.619	ng/ml	100
18) Acenaphthene	3.949	153	402851	4701.214	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.041	165	140362	4961.046	ng/ml	97
20) Fluorene	4.242	166	450076	4872.611	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.274	198	81323	4960.275	ng/ml	98
24) Hexachlorobenzene	4.560	284	170883	4566.464	ng/ml	99
25) Pentachlorophenol	4.669	266	113223	5061.720	ng/ml	100
26) Phenanthrene	4.787	178	699442	4789.668	ng/ml	100
27) Anthracene	4.817	178	718996	4983.131	ng/ml	99
28) Fluoranthene	5.469	202	812328	5129.080	ng/ml	100
29) Pyrene	5.599	202	828081	5042.286	ng/ml	100
32) Benzo[a]anthracene	6.329	228	819561	4909.638	ng/ml	100
33) 3,3'-Dichlorobenzene	6.315	252	332556	5703.749	ng/ml	99
34) Chrysene	6.356	228	745399	4699.972	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.351	149	558598	5085.134	ng/ml	100
37) Benzo[b]fluoranthene	7.202	252	823633	5314.751	ng/ml	99
38) Benzo[k]fluoranthene	7.230	252	753851	5109.611	ng/ml	100
39) Benzo[a]pyrene	7.523	252	721027	5644.159	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.861	276	730050	6068.050	ng/ml	100
41) Dibenzo[a,h]anthracene	8.898	278	690601M6	5994.522	ng/ml	
42) Benzo[g,h,i]perylene	9.217	276	695924	5685.621	ng/ml	100

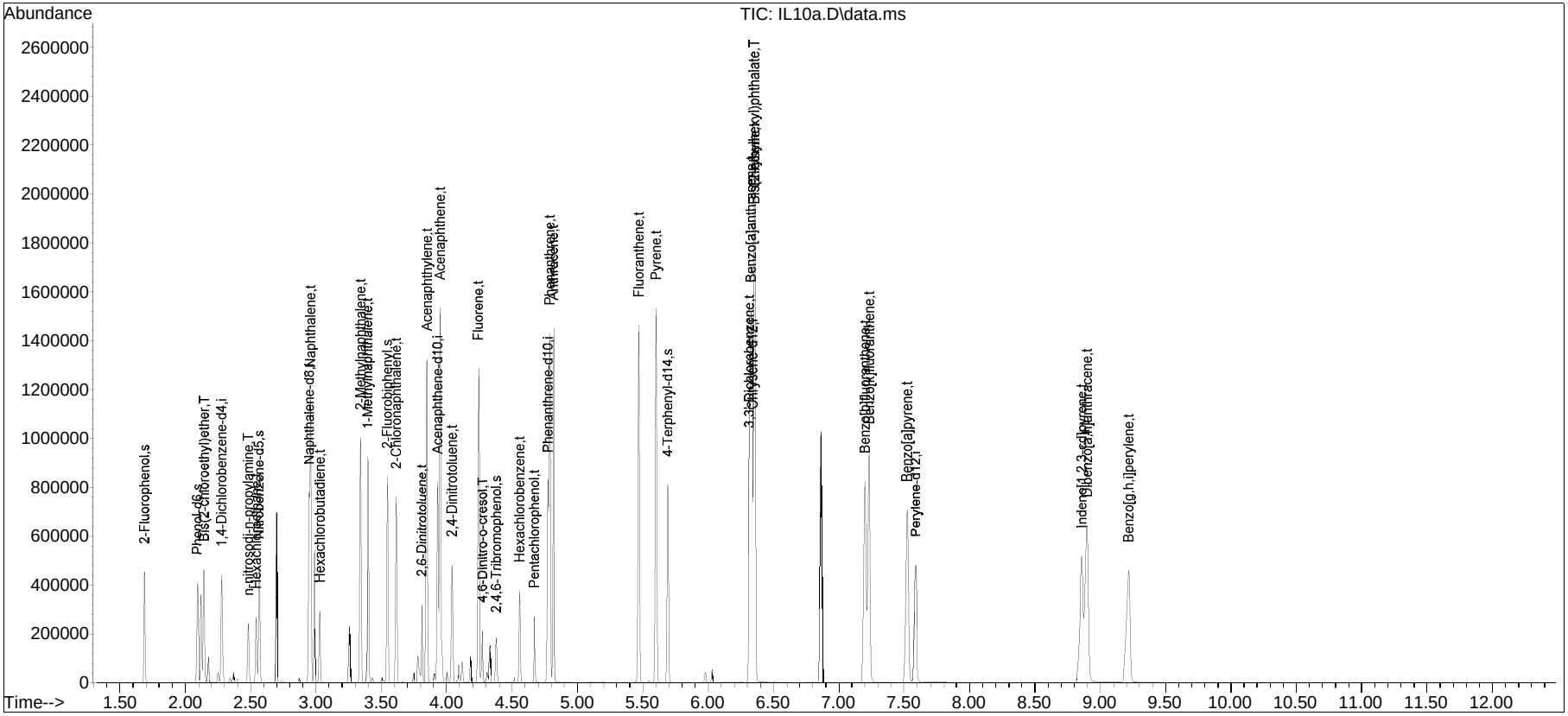
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : IL10a.D
Acq On : 22 May 2024 01:32 pm
Operator : SV120:dv
Sample : IL10,32,,5000.0ng/mL lot# 10462
Misc : WG1927083,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 16:01:27 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:02:08 2024
Response via : Initial Calibration

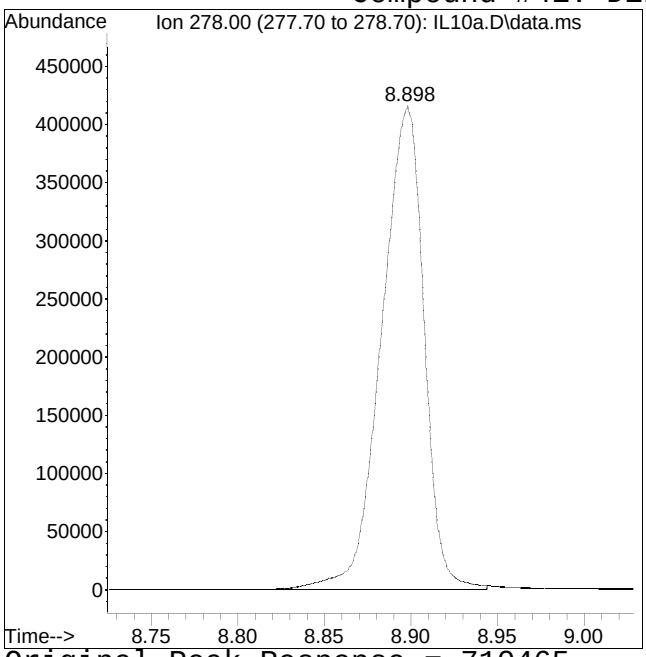
Sub List : Default - All compounds listedical\IL8.D•



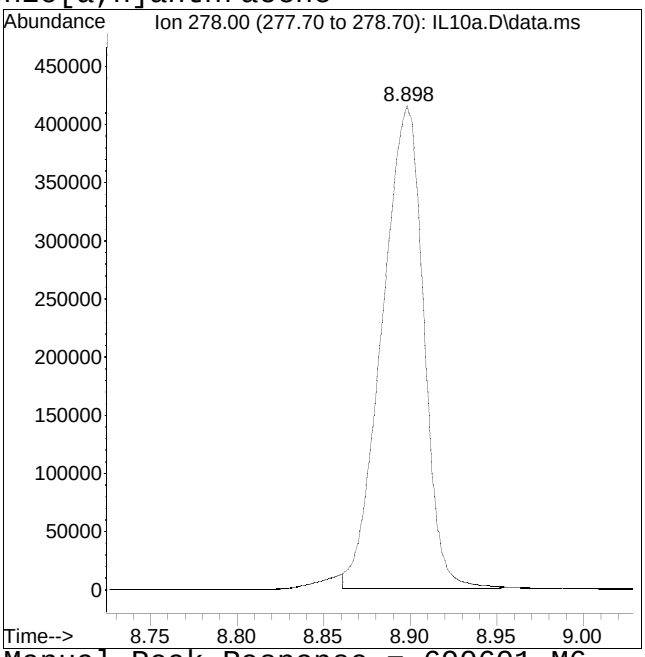
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : IL10a.D Operator : SV120:dv
Date Inj'd : 5/22/2024 1:32 pm Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 5/30/2024 4:02 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 710465



Manual Peak Response = 690601 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
2	s	2-Fluorophenol	1.189	1.131	4.9	93	0.00
3	s	Phenol-d6	1.429	1.387	2.9	94	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.198	5.1	97	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.858	0.9	94	0.00
6	t	Hexachloroethane	0.572	0.546	4.5	96	0.00
7	s	Nitrobenzene-d5	1.273	1.266	0.5	96	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	104	0.00
9	t	Naphthalene	1.131	1.029	9.0	96	0.00
10	t	Hexachlorobutadiene	0.216	0.208	3.7	98	0.00
11	t	2-Methylnaphthalene	0.705	0.691	2.0	98	0.00
12	t	1-Methylnaphthalene	0.664	0.629	5.3	96	0.00
13	s	2-Fluorobiphenyl	0.851	0.802	5.8	97	0.00
14	t	2-Chloronaphthalene	0.721	0.677	6.1	95	0.00
15	t	2,6-Dinitrotoluene	*1000.000	869.450	13.1	94	0.00
16	t	Acenaphthylene	1.061	1.042	1.8	92	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
18	t	Acenaphthene	1.372	1.313	4.3	98	0.00
19	t	2,4-Dinitrotoluene	*1000.000	878.216	12.2	92	0.00
20	t	Fluorene	1.479	1.403	5.1	96	0.00
21	s	2,4,6-Tribromophenol	*1000.000	868.207	13.2	91	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	105	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	861.821	13.8	90	0.00
24	t	Hexachlorobenzene	0.288	0.266	7.6	94	0.00
25	t	Pentachlorophenol	*1000.000	837.798	16.2	90	0.00
26	t	Phenanthrene	1.125	1.071	4.8	94	0.00
27	t	Anthracene	1.111	1.077	3.1	96	0.00
28	t	Fluoranthene	1.220	1.147	6.0	95	0.00
29	t	Pyrene	1.265	1.200	5.1	95	0.00
30	s	4-Terphenyl-d14	0.814	0.759	6.8	99	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	107	-0.01
32	t	Benzo[a]anthracene	*1000.000	914.351	8.6	94	-0.01
33	t	3,3'-Dichlorobenzene	0.533	0.483	9.4	88	-0.01
34	t	Chrysene	1.450	1.352	6.8	97	-0.01
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	808.766	19.1	92	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	109	-0.01
37	t	Benzo[b]fluoranthene	1.323	1.271	3.9	93	-0.01
38	t	Benzo[k]fluoranthene	1.259	1.307	-3.8	102	-0.01
39	t	Benzo[a]pyrene	1.090	1.110	-1.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	1.027	0.994	3.2	98	-0.01
41	t	Dibenzo[a,h]anthracene	0.983	0.998	-1.5	97	-0.01
42	t	Benzo[g,h,i]perylene	1.045	0.988	5.5	97	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	187414	4000.000	ng/ml	0.00
Standard Area 1 = 180763			Recovery = 103.68%			
8) Naphthalene-d8	2.949	136	685146	4000.000	ng/ml	0.00
Standard Area 1 = 657458			Recovery = 104.21%			
17) Acenaphthene-d10	3.930	164	369600	4000.000	ng/ml	0.00
Standard Area 1 = 353204			Recovery = 104.64%			
22) Phenanthrene-d10	4.773	188	720697	4000.000	ng/ml	0.00
Standard Area 1 = 685777			Recovery = 105.09%			
31) Chrysene-d12	6.336	240	547718	4000.000	ng/ml	-0.01
Standard Area 1 = 509536			Recovery = 107.49%			
36) Perylene-d12	7.586	264	538023	4000.000	ng/ml	-0.01
Standard Area 1 = 492251			Recovery = 109.30%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.714	112	52974	951.032	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.55%			
3) Phenol-d6	2.094	99	64987	970.593	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.53%			
7) Nitrobenzene-d5	2.561	82	59316	994.307	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.43%			
13) 2-Fluorobiphenyl	3.548	172	137296	942.428	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.24%			
21) 2,4,6-Tribromophenol	4.374	330	21775	868.207	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.41%			
30) 4-Terphenyl-d14	5.689	244	136699	932.220	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.61%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.147	93	56124	948.406	ng/ml	99
5) n-nitrosodi-n-propylamine	2.480	70	40192	990.446	ng/ml	100
6) Hexachloroethane	2.540	117	25597	954.635	ng/ml	99
9) Naphthalene	2.959	128	176241	910.031	ng/ml	100
10) Hexachlorobutadiene	3.032	225	35567	960.060	ng/ml	100
11) 2-Methylnaphthalene	3.339	142	118274	978.862	ng/ml	100
12) 1-Methylnaphthalene	3.396	142	107689	946.922	ng/ml	100
14) 2-Chloronaphthalene	3.612	162	115951	938.916	ng/ml	99
15) 2,6-Dinitrotoluene	3.808	165	26765	869.450	ng/ml	97
16) Acenaphthylene	3.846	152	178421	981.694	ng/ml	100
18) Acenaphthene	3.946	153	121317	956.652	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240521RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.035	165	36068	878.216	ng/ml	99
20) Fluorene	4.238	166	129609	948.151	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.267	198	18145	861.821	ng/ml	99
24) Hexachlorobenzene	4.557	284	47965	923.680	ng/ml	100
25) Pentachlorophenol	4.666	266	24833	837.798	ng/ml	100
26) Phenanthrene	4.786	178	192933	952.086	ng/ml	100
27) Anthracene	4.814	178	194011	968.987	ng/ml	100
28) Fluoranthene	5.466	202	206733	940.662	ng/ml	100
29) Pyrene	5.596	202	216295	949.111	ng/ml	100
32) Benzo[a]anthracene	6.326	228	192324	914.351	ng/ml	100
33) 3,3'-Dichlorobenzene	6.312	252	66162	906.482	ng/ml	99
34) Chrysene	6.353	228	185135	932.502	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.353	149	107790	808.766	ng/ml	100
37) Benzo[b]fluoranthene	7.196	252	170922	960.765	ng/ml	100
38) Benzo[k]fluoranthene	7.222	252	175807	1038.027	ng/ml	100
39) Benzo[a]pyrene	7.514	252	149283	1017.954	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.841	276	133663	967.783	ng/ml	97
41) Dibenzo[a,h]anthracene	8.878	278	134229M6	1014.948	ng/ml	
42) Benzo[g,h,i]perylene	9.191	276	132877	945.662	ng/ml	99

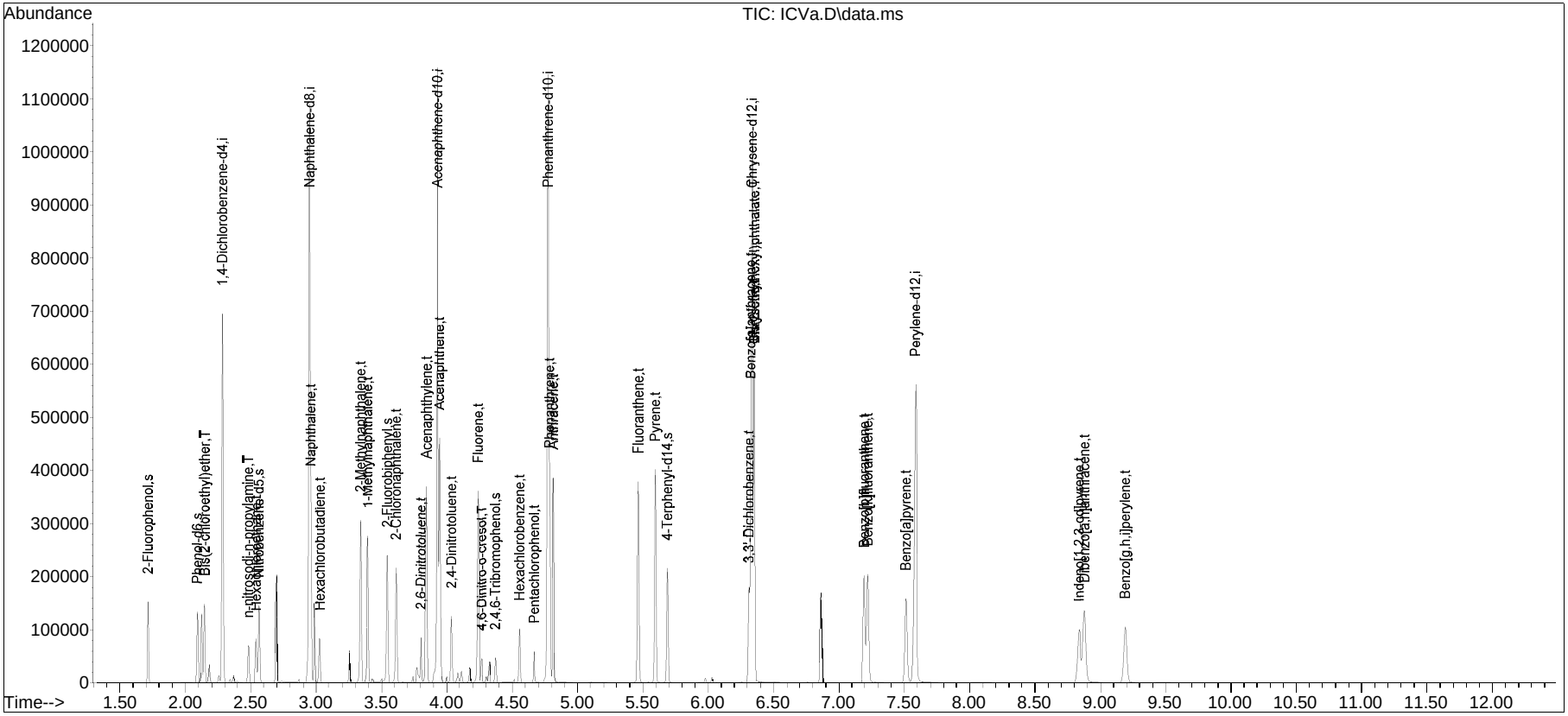
(#) = qualifier out of range (m) = manual integration (+) = signals summed

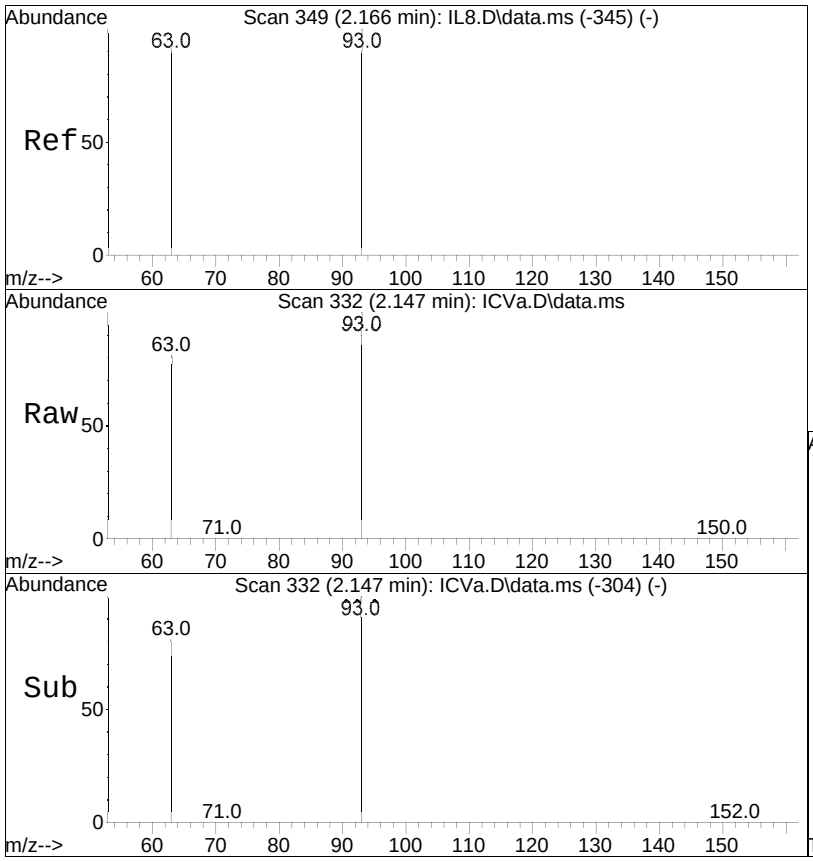
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240521RVTical\
Data File : ICVa.D
Acq On : 22 May 2024 01:49 pm
Operator : SV120:dv
Sample : CQICV,32,,1000.0ng/mL lot #10475
Misc : WG1927083,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 30 16:03:08 2024
Quant Method : I:\8270SIM\sv120\240521RVTical\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu May 30 16:03:48 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

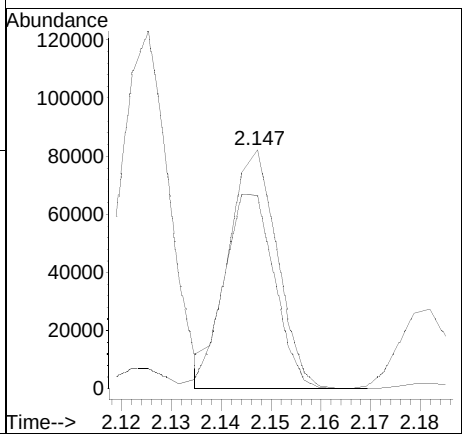


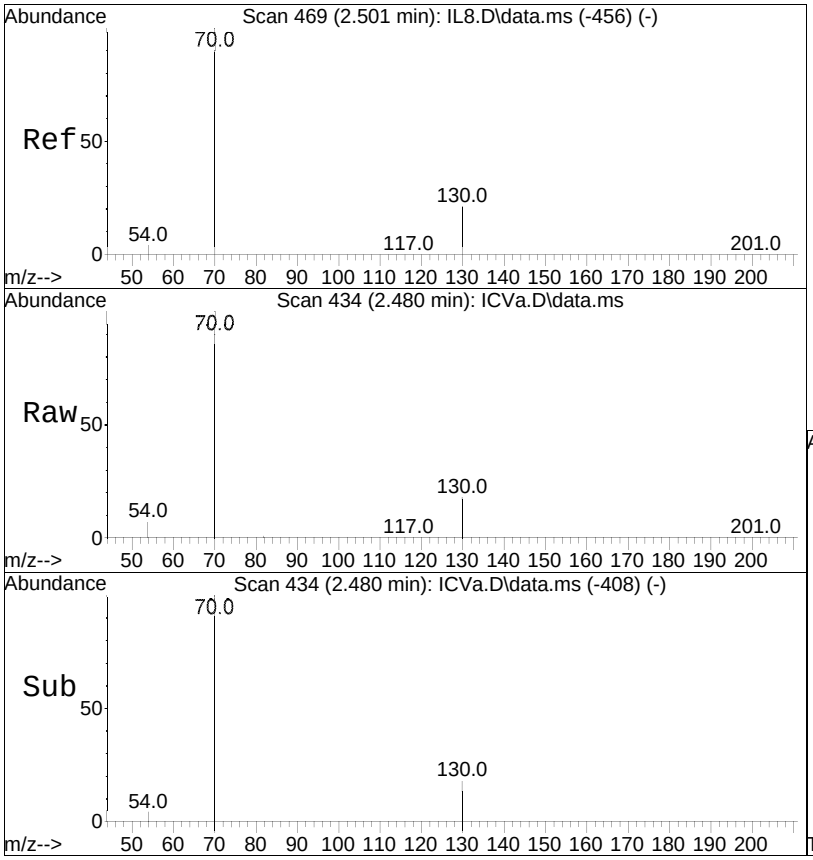


#4
Bis(2-chloroethyl)ether
Concen: 948.41 ng/ml
RT: 2.147 min Scan# 332
Delta R.T. 0.009 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 93 Resp: 56124

Ion	Ratio	Lower	Upper
93	100		
63	84.4	68.6	102.8

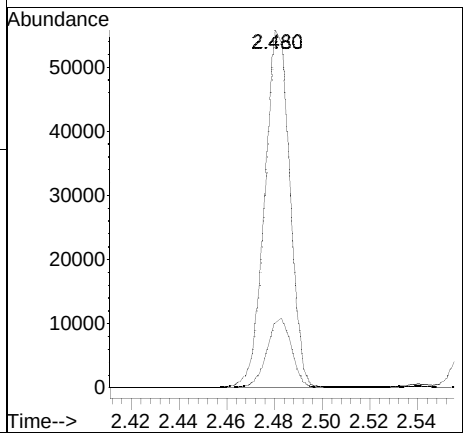


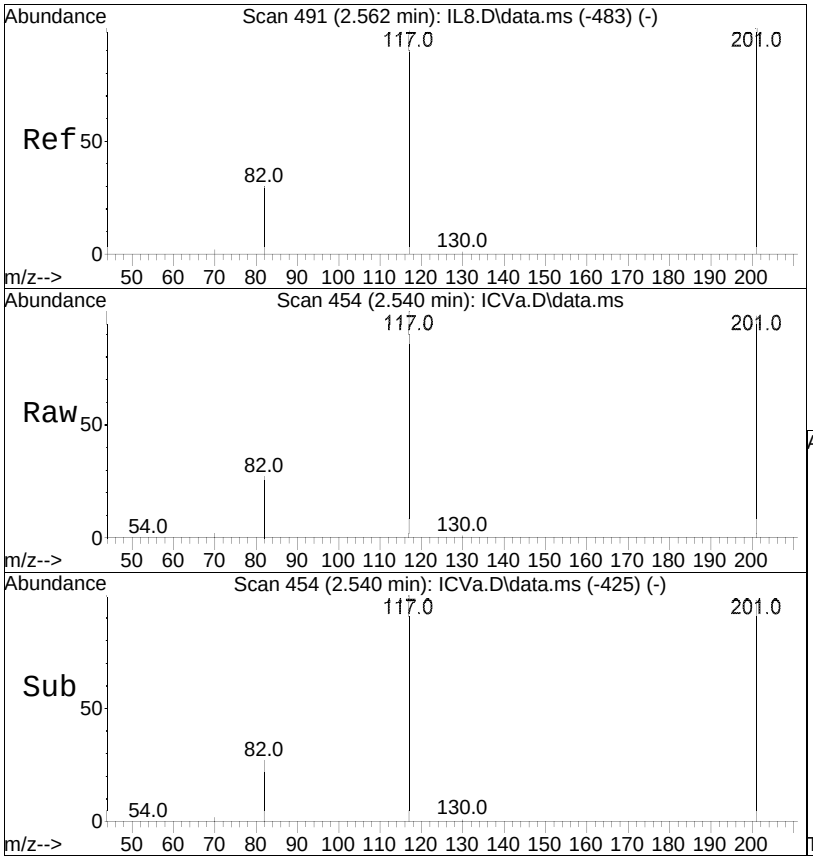


#5
n-nitrosodi-n-propylamine
Concen: 990.45 ng/ml
RT: 2.480 min Scan# 434
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion: 70 Resp: 40192

Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.1	22.7

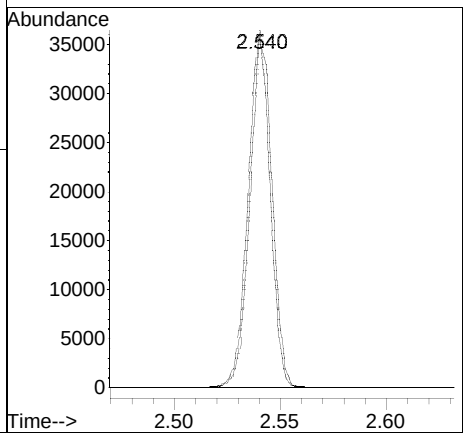


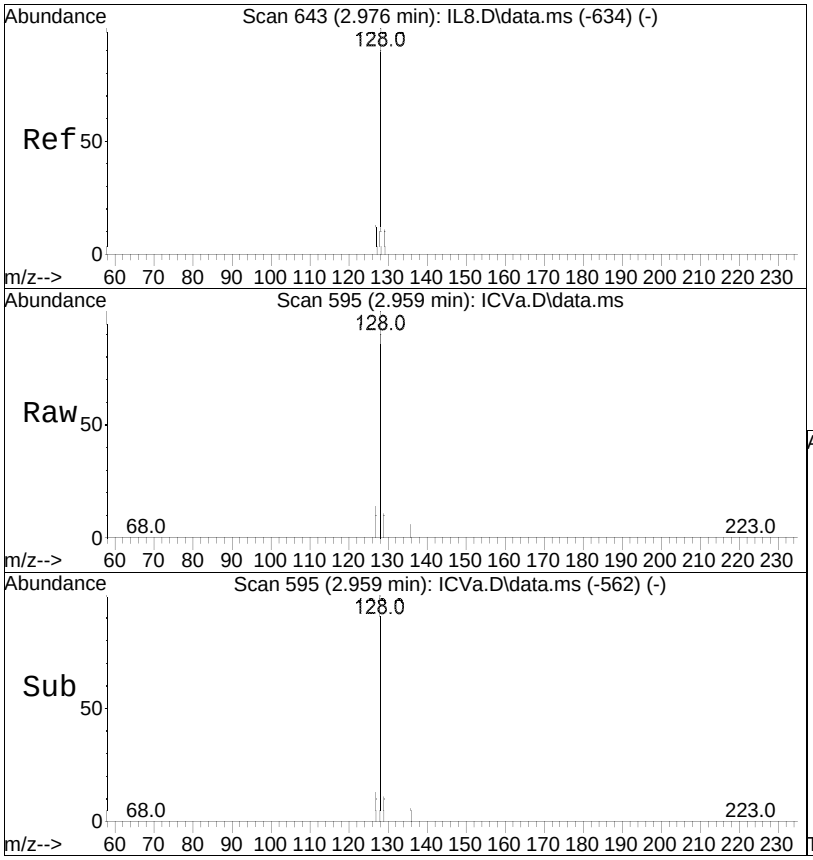


#6
Hexachloroethane
Concen: 954.64 ng/ml
RT: 2.540 min Scan# 454
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:117 Resp: 25597

Ion	Ratio	Lower	Upper
117	100		
201	99.9	79.4	119.2

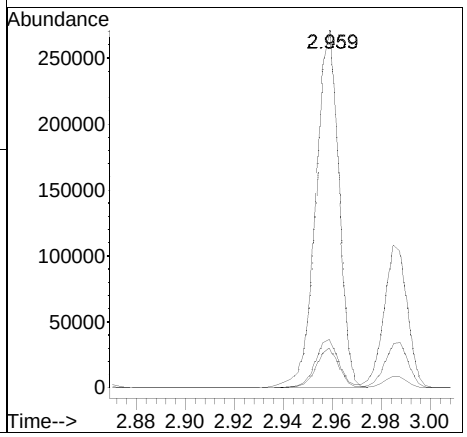


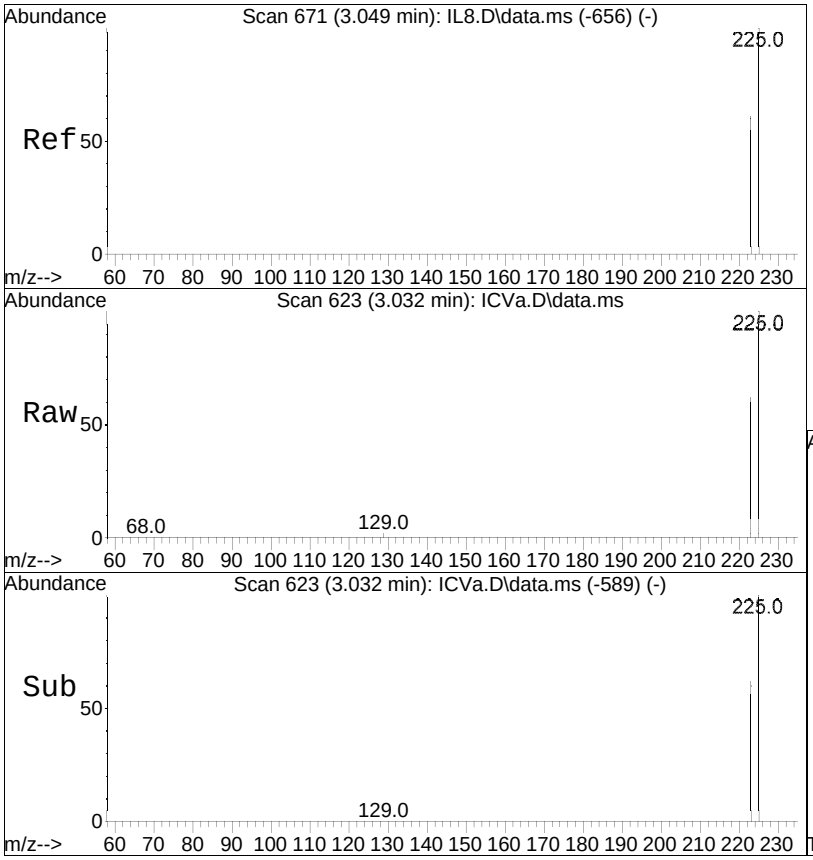


#9
Naphthalene
Concen: 910.03 ng/ml
RT: 2.959 min Scan# 595
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:128 Resp: 176241

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	14.0	11.3	16.9

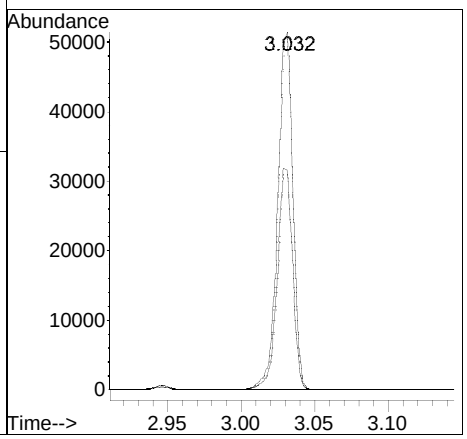


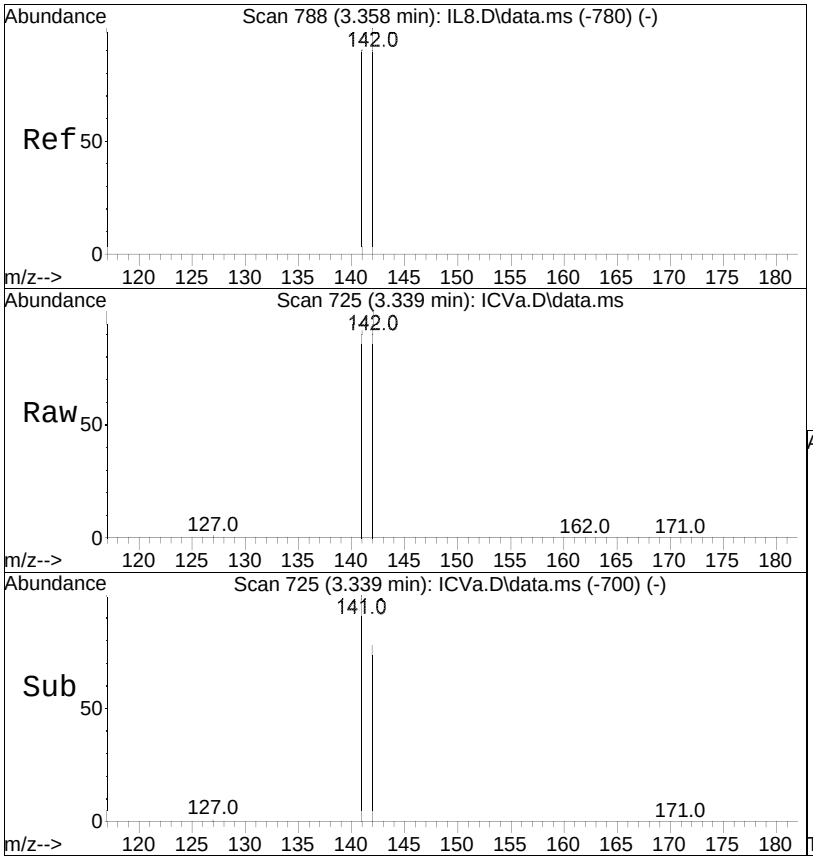


#10
Hexachlorobutadiene
Concen: 960.06 ng/ml
RT: 3.032 min Scan# 623
Delta R.T. 0.008 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:225 Resp: 35567

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.1	75.1

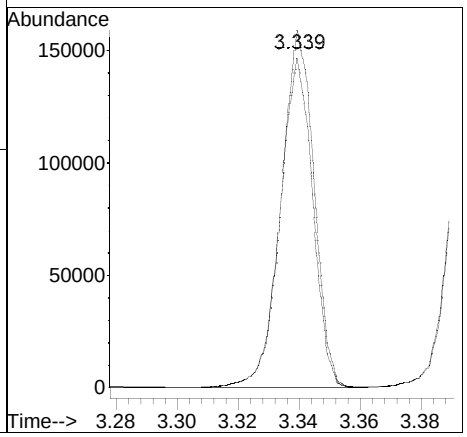


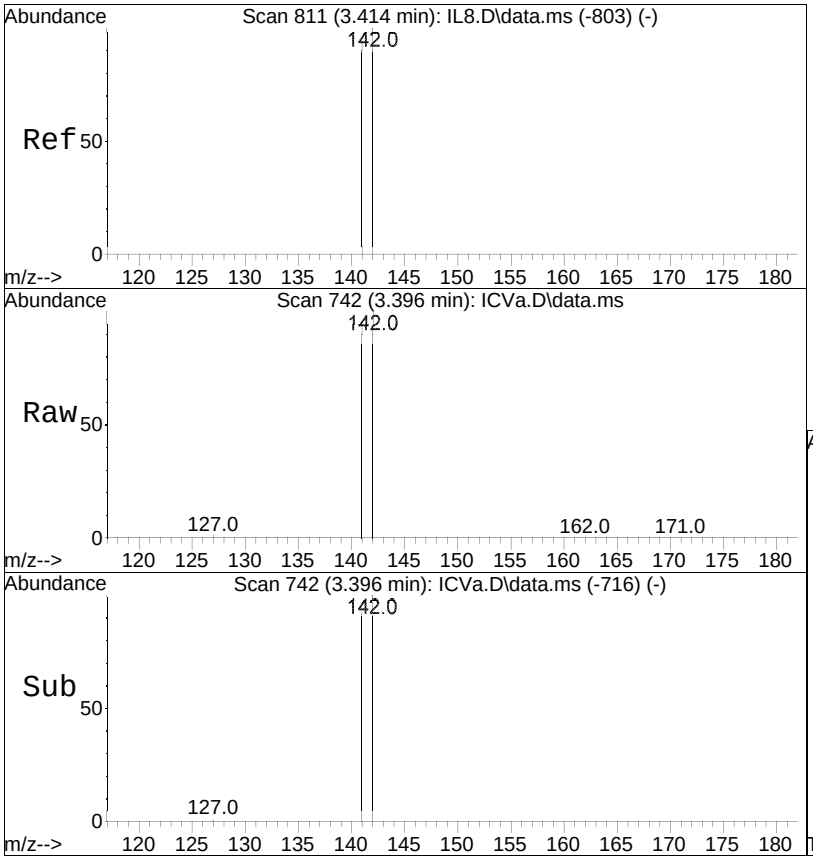


#11
2-Methylnaphthalene
Concen: 978.86 ng/ml
RT: 3.339 min Scan# 725
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 118274

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.8	110.6

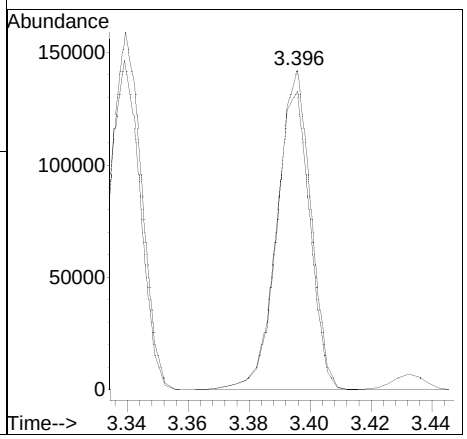


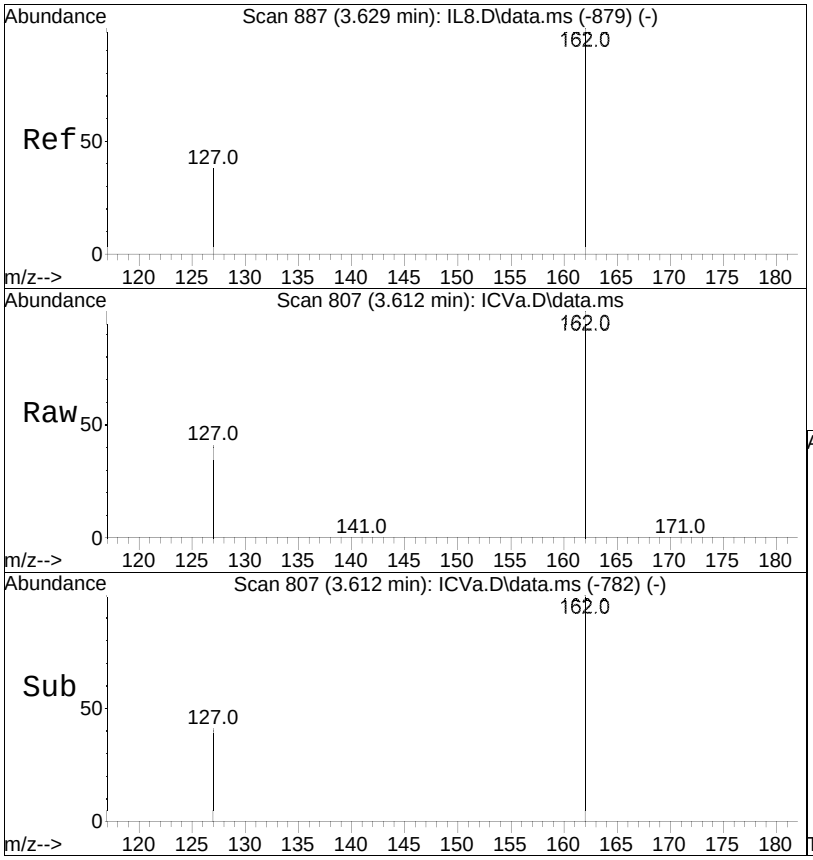


#12
1-Methylnaphthalene
Concen: 946.92 ng/ml
RT: 3.396 min Scan# 742
Delta R.T. 0.007 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:142 Resp: 107689

Ion	Ratio	Lower	Upper
142	100		
141	95.1	76.3	114.5

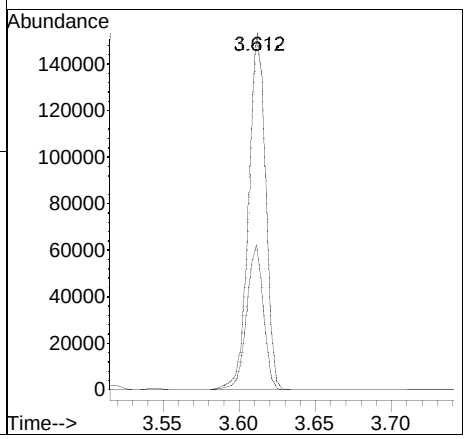


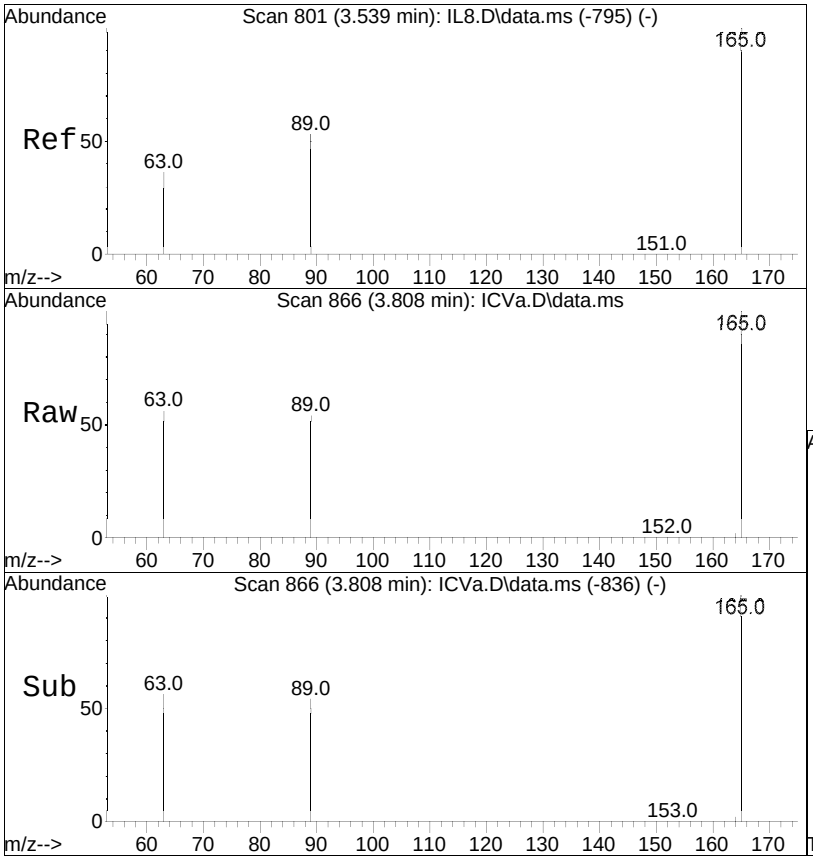


#14
2-Chloronaphthalene
Concen: 938.92 ng/ml
RT: 3.612 min Scan# 807
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:162 Resp: 115951

Ion	Ratio	Lower	Upper
162	100		
127	40.4	32.0	48.0

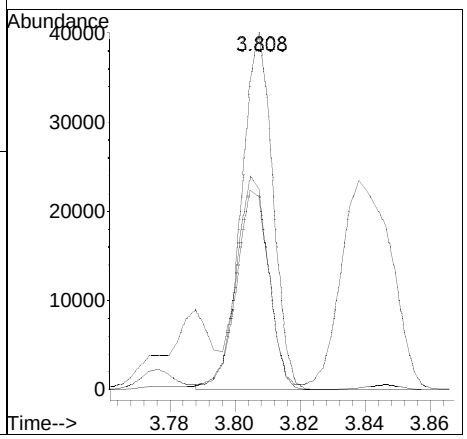


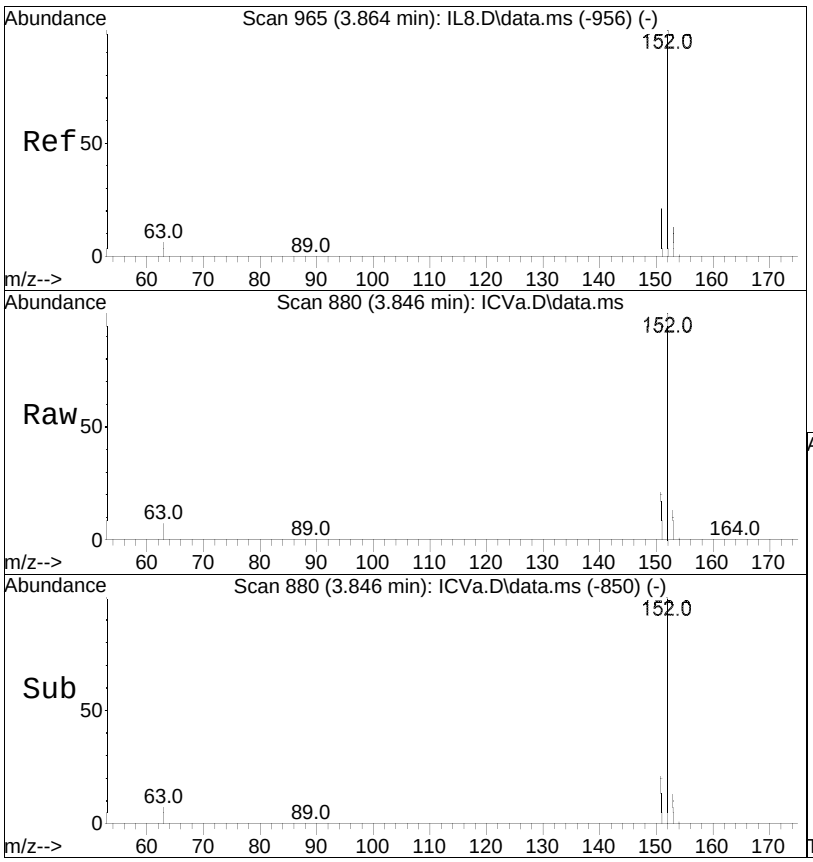


#15
2,6-Dinitrotoluene
Concen: 869.45 ng/ml
RT: 3.808 min Scan# 866
Delta R.T. 0.006 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 26765

Ion	Ratio	Lower	Upper
165	100		
89	58.4	48.0	72.0
63	57.9	48.2	72.2

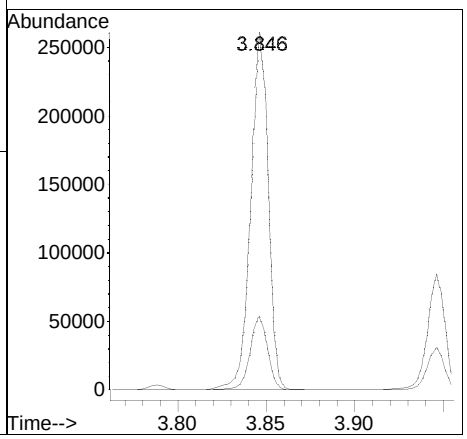


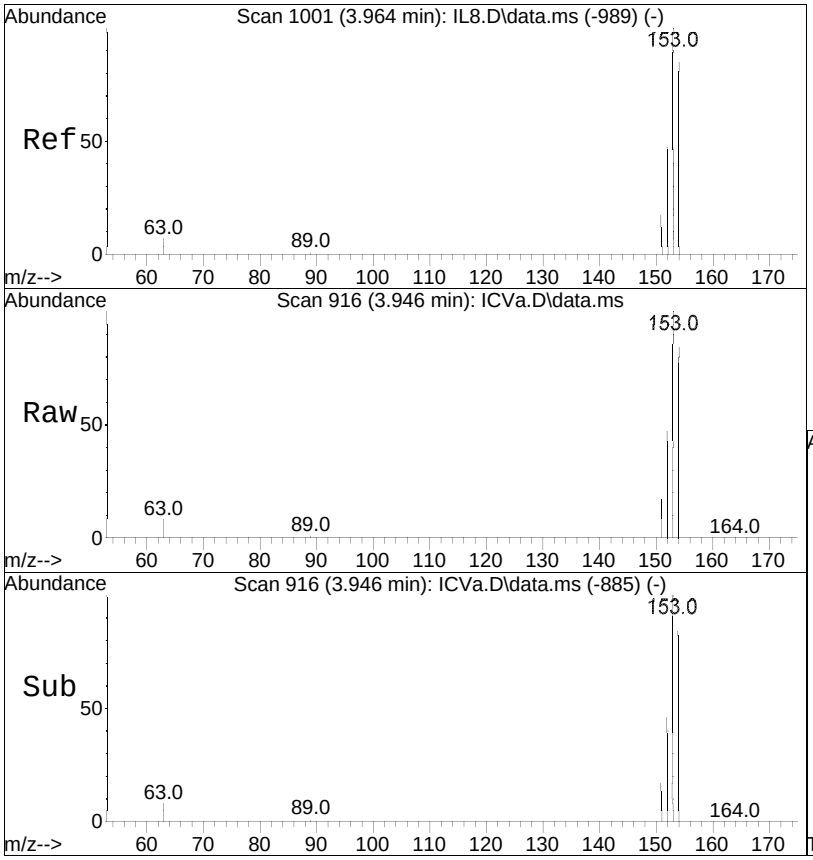


#16
Acenaphthylene
Concen: 981.69 ng/ml
RT: 3.846 min Scan# 880
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:152 Resp: 178421

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7

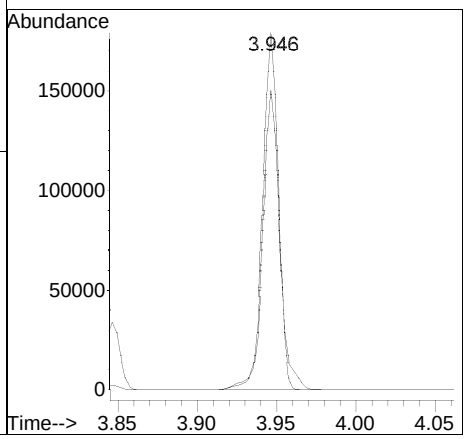


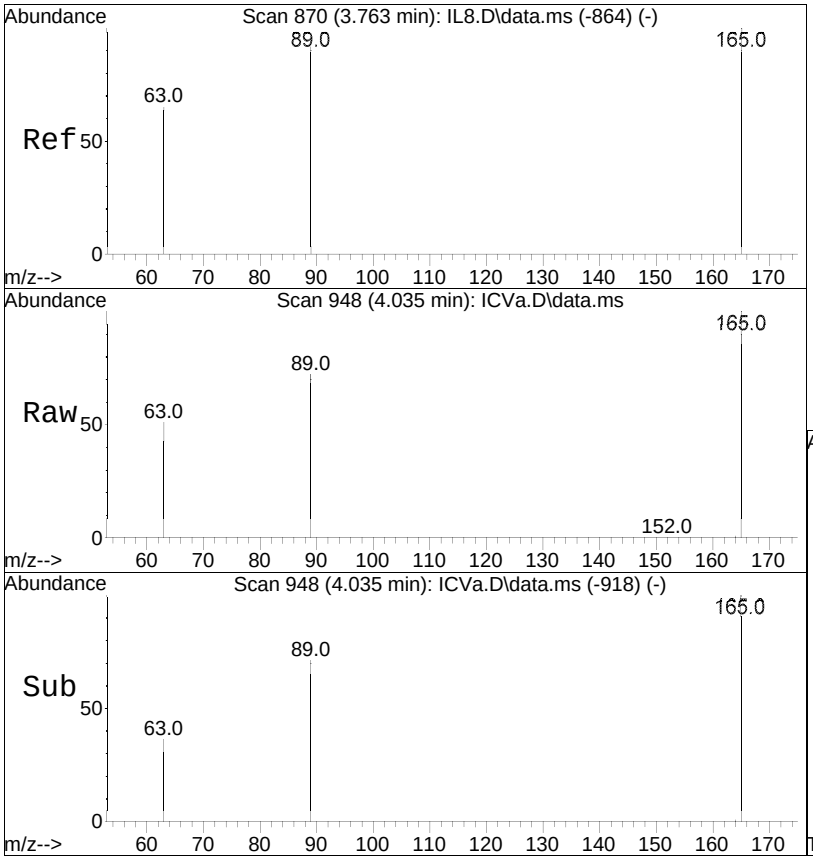


#18
Acenaphthene
Concen: 956.65 ng/ml
RT: 3.946 min Scan# 916
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:153 Resp: 121317

Ion	Ratio	Lower	Upper
153	100		
154	90.5	73.4	110.2

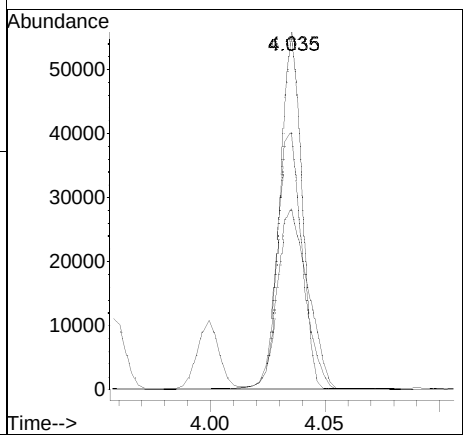


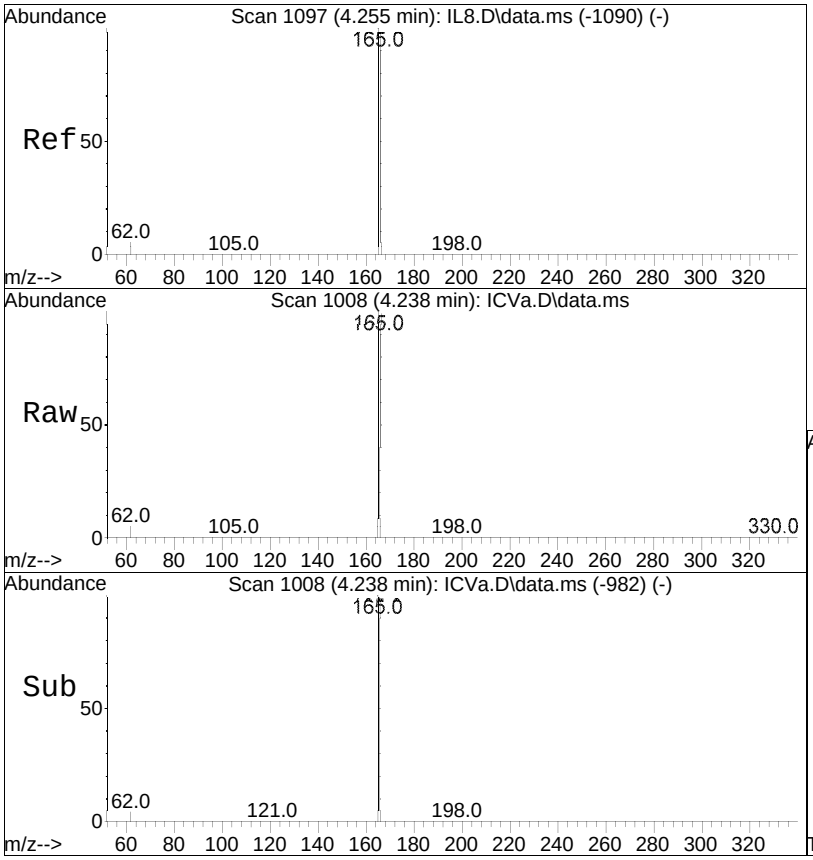


#19
2,4-Dinitrotoluene
Concen: 878.22 ng/ml
RT: 4.035 min Scan# 948
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:165 Resp: 36068

Ion	Ratio	Lower	Upper
165	100		
89	101.7	82.0	123.0
63	90.8	73.0	109.6

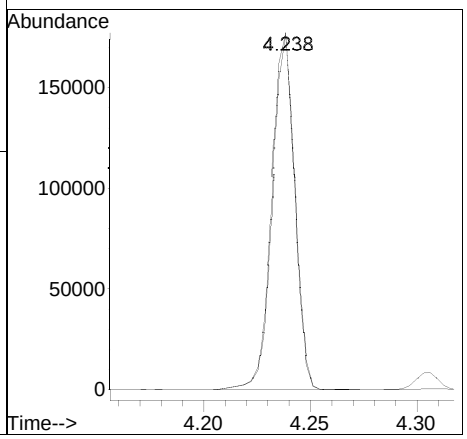


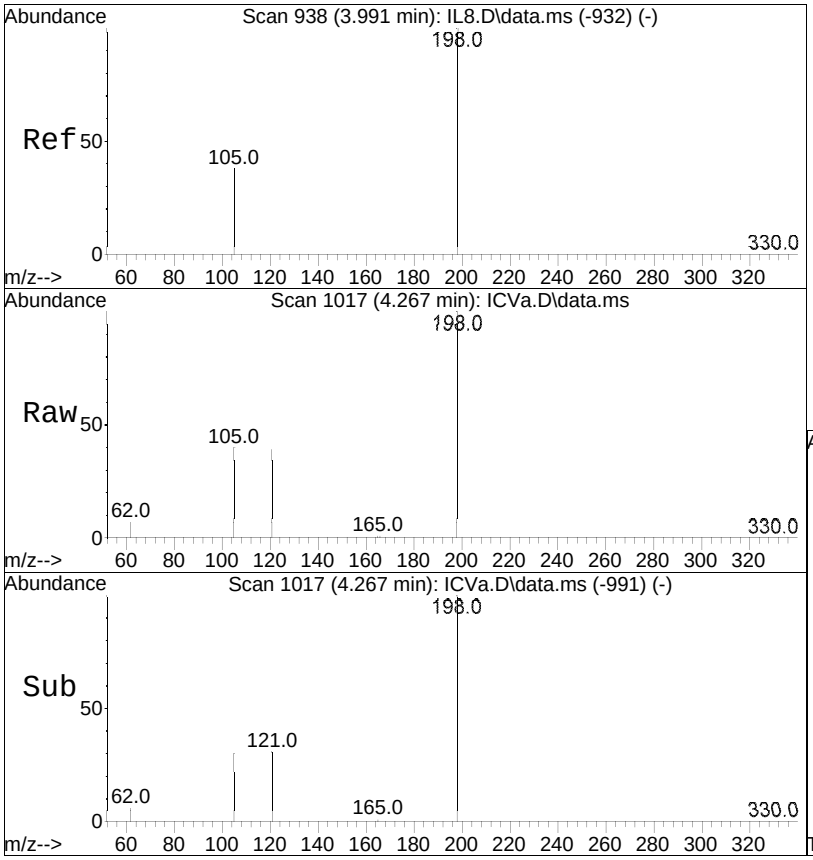


#20
Fluorene
Concen: 948.15 ng/ml
RT: 4.238 min Scan# 1008
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:166 Resp: 129609

Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.9	122.9

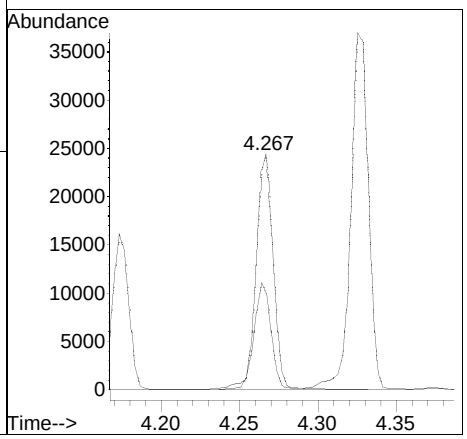


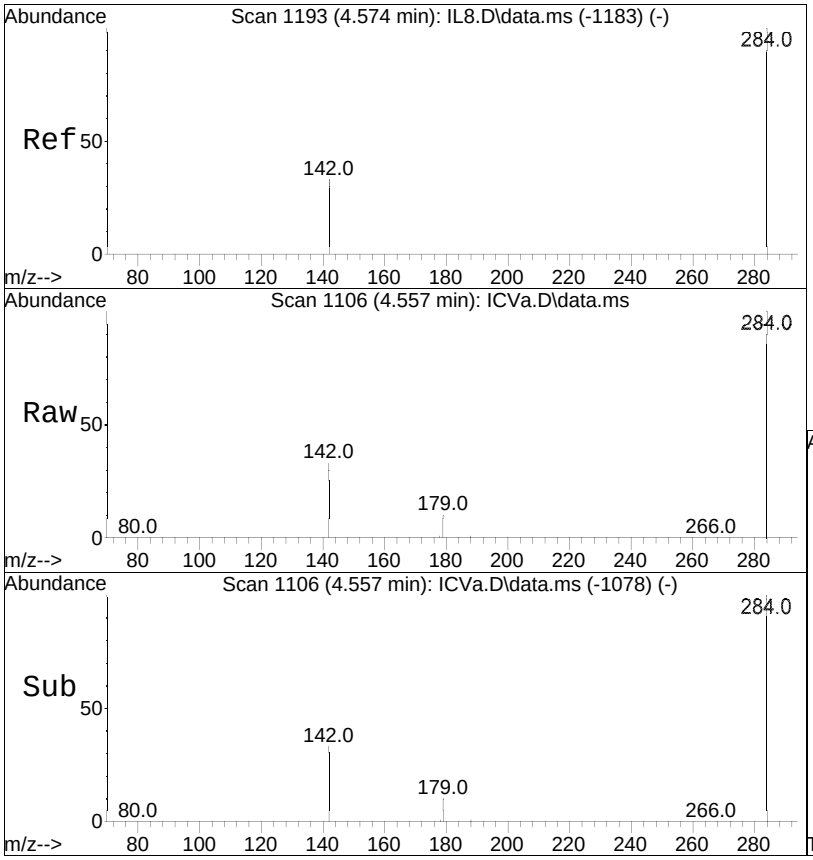


#23
4,6-Dinitro-o-cresol
Concen: 861.82 ng/ml
RT: 4.267 min Scan# 1017
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:198 Resp: 18145

Ion	Ratio	Lower	Upper
198	100		
105	46.9	37.8	56.8

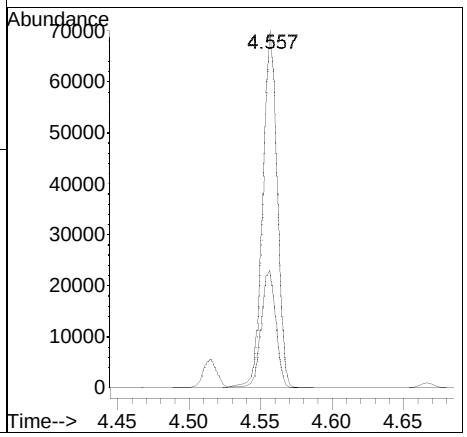


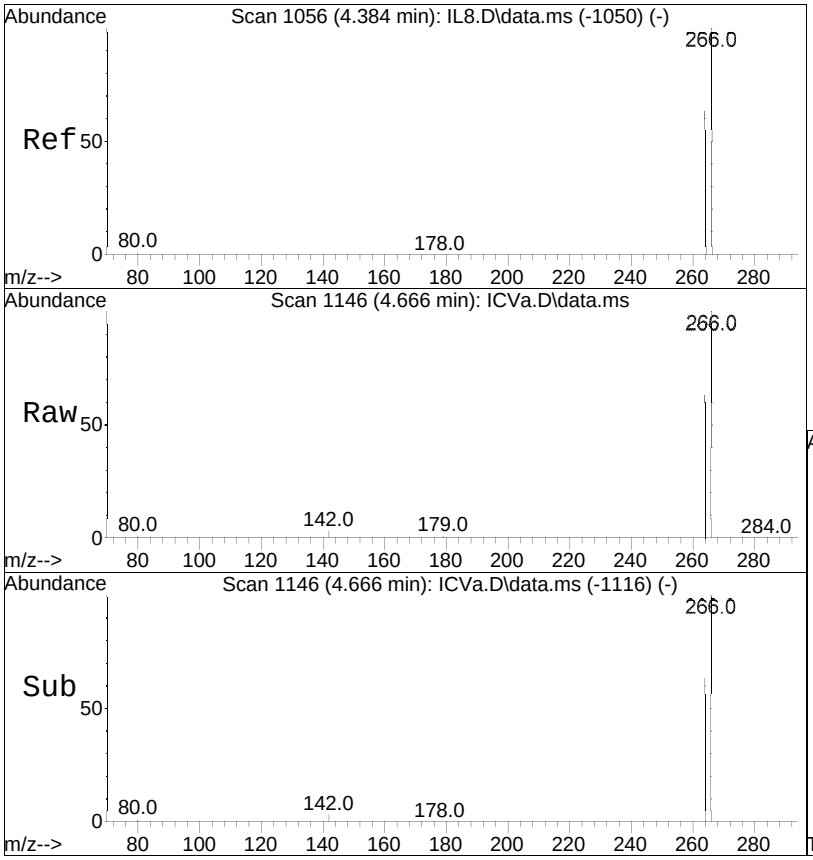


#24
Hexachlorobenzene
Concen: 923.68 ng/ml
RT: 4.557 min Scan# 1106
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:284 Resp: 47965

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.8	40.2

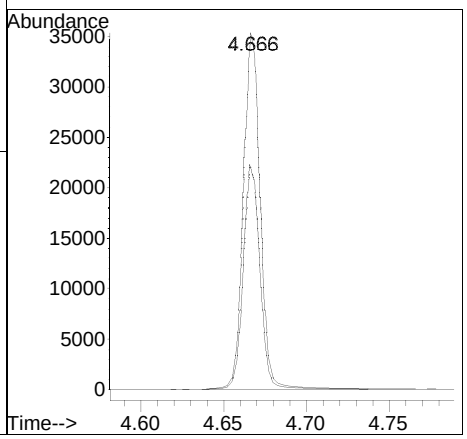


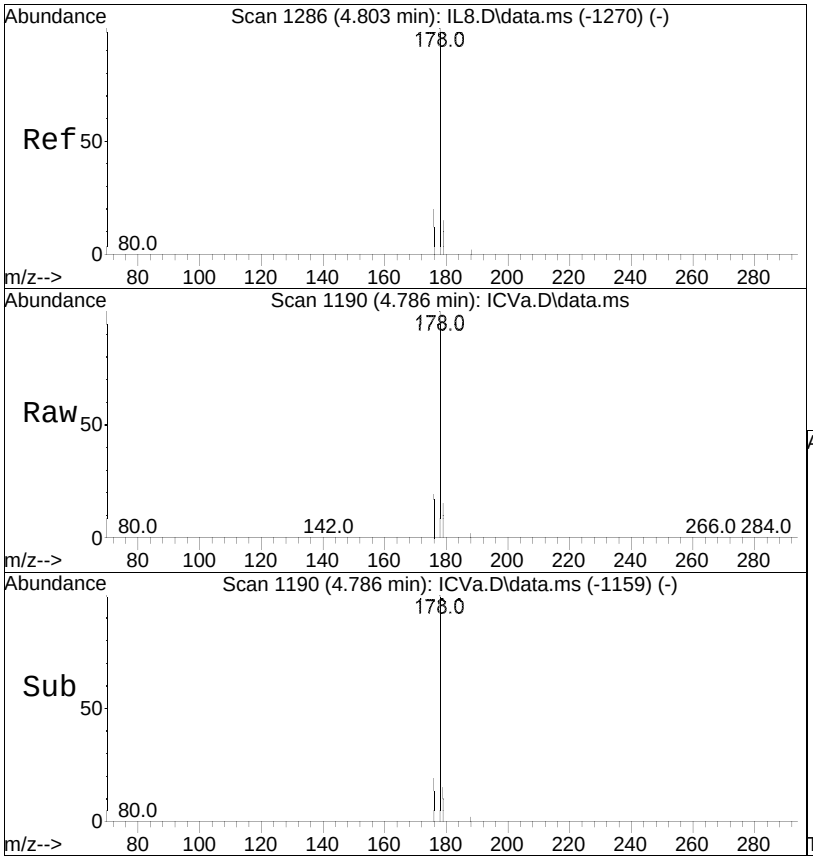


#25
Pentachlorophenol
Concen: 837.80 ng/ml
RT: 4.666 min Scan# 1146
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:266 Resp: 24833

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2

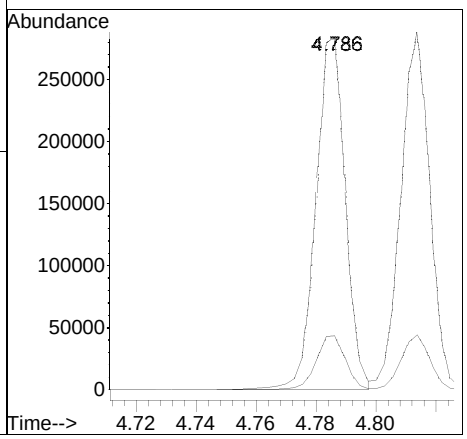


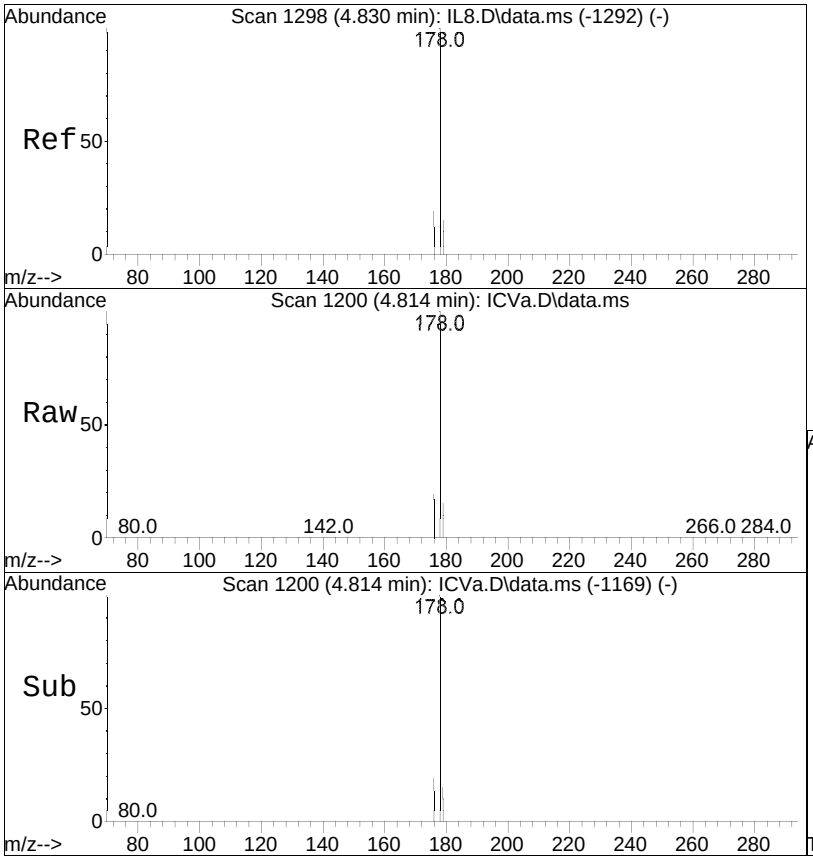


#26
Phenanthrene
Concen: 952.09 ng/ml
RT: 4.786 min Scan# 1190
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 192933

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

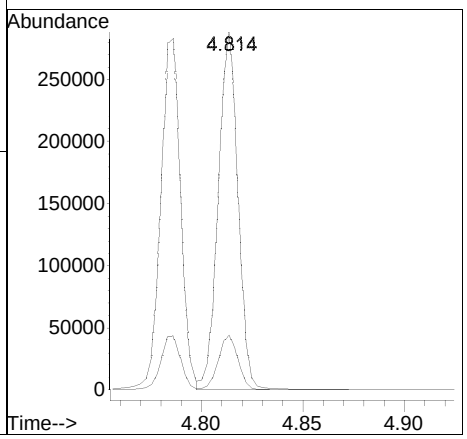


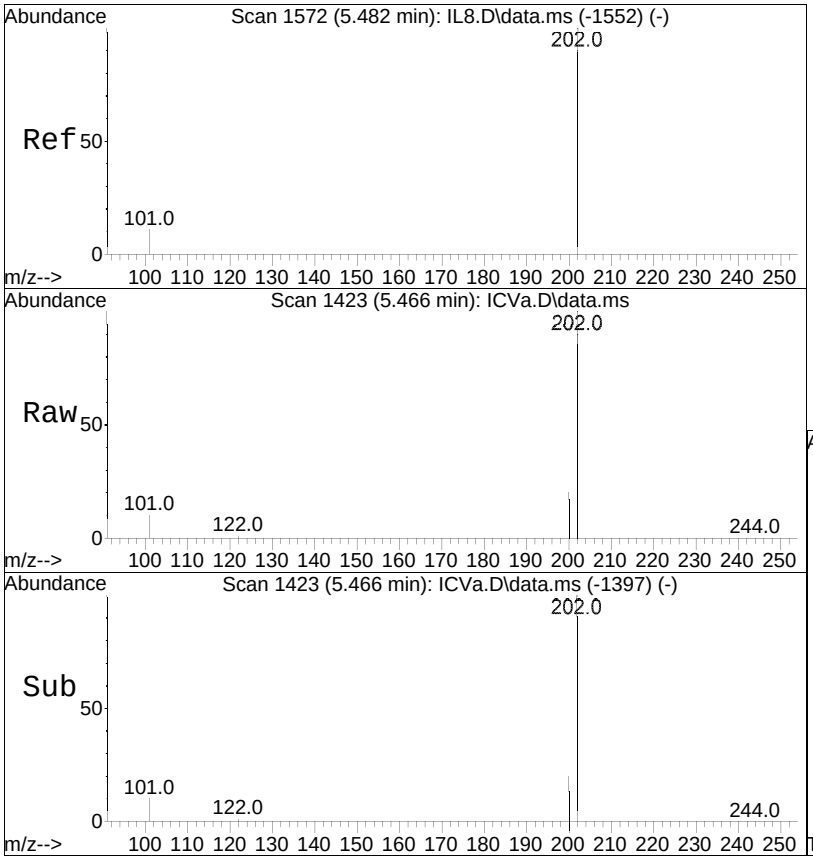


#27
Anthracene
Concen: 968.99 ng/ml
RT: 4.814 min Scan# 1200
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:178 Resp: 194011

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.4

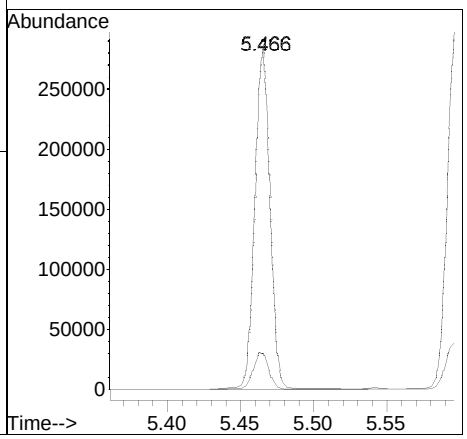


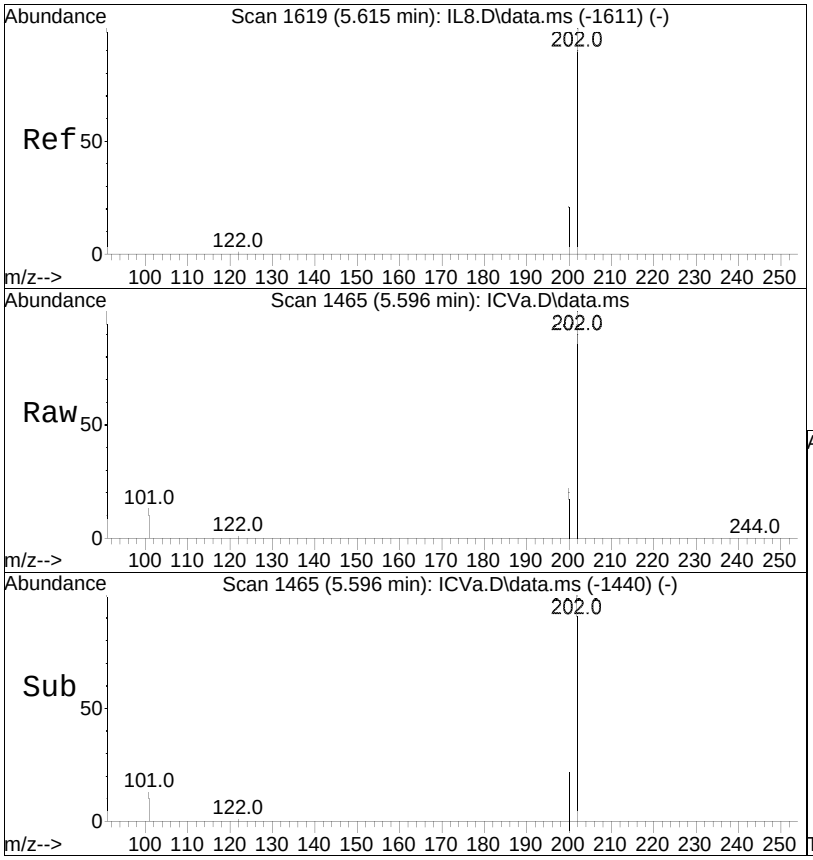


#28
Fluoranthene
Concen: 940.66 ng/ml
RT: 5.466 min Scan# 1423
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 206733

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.0	13.6

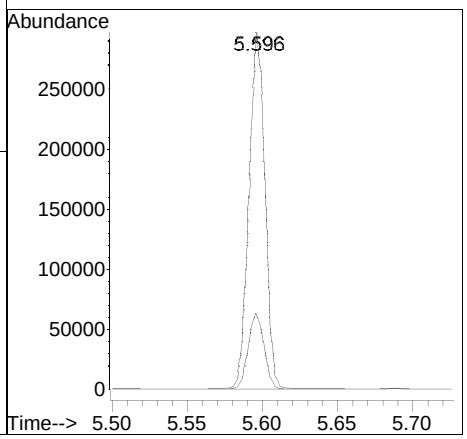


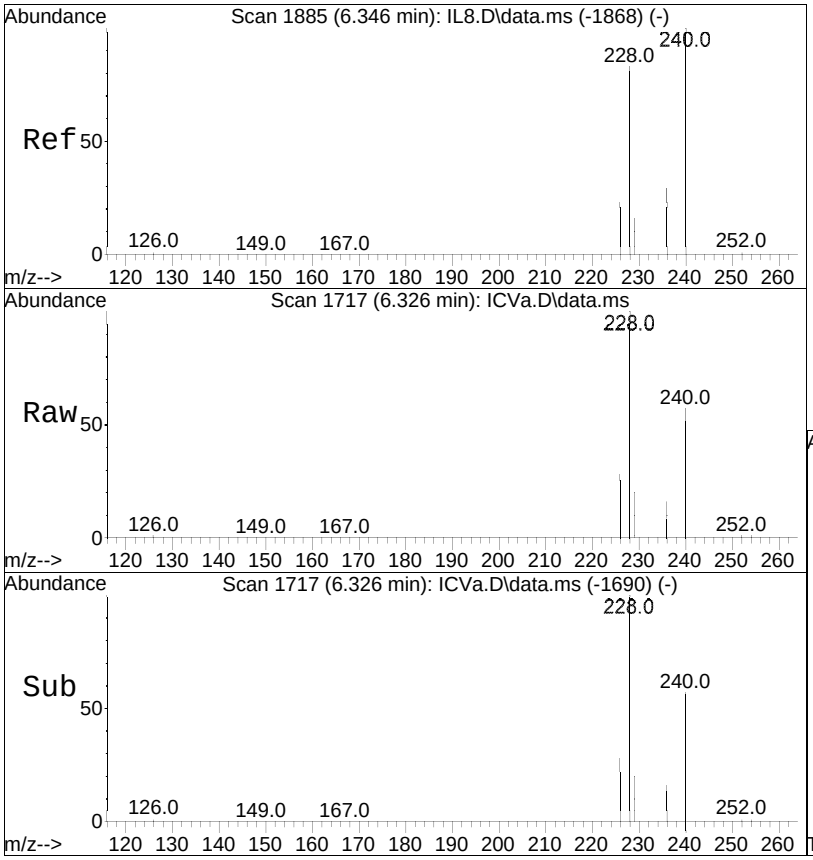


#29
Pyrene
Concen: 949.11 ng/ml
RT: 5.596 min Scan# 1465
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:202 Resp: 216295

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

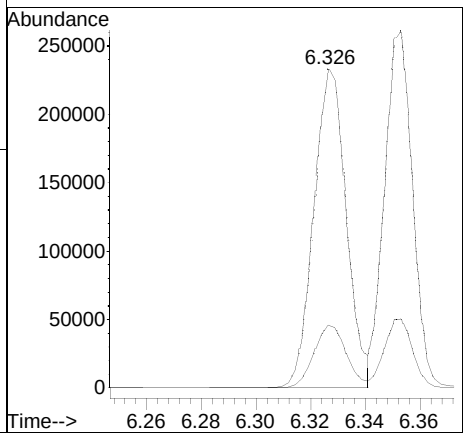


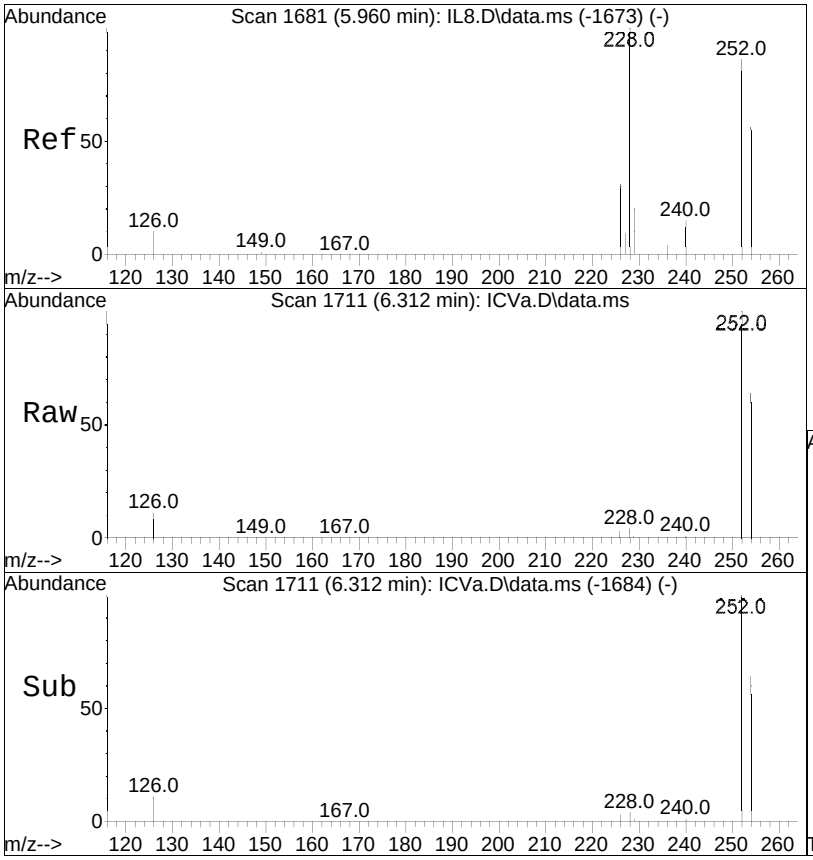


#32
Benzo[a]anthracene
Concen: 914.35 ng/ml
RT: 6.326 min Scan# 1717
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 192324

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

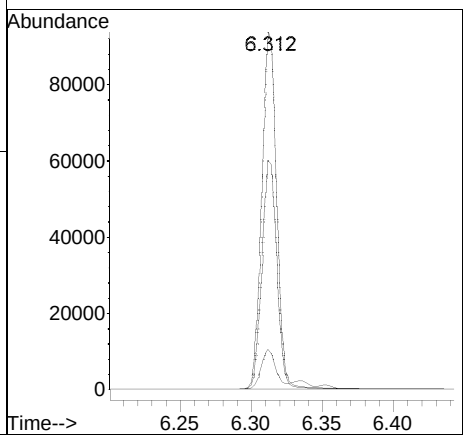


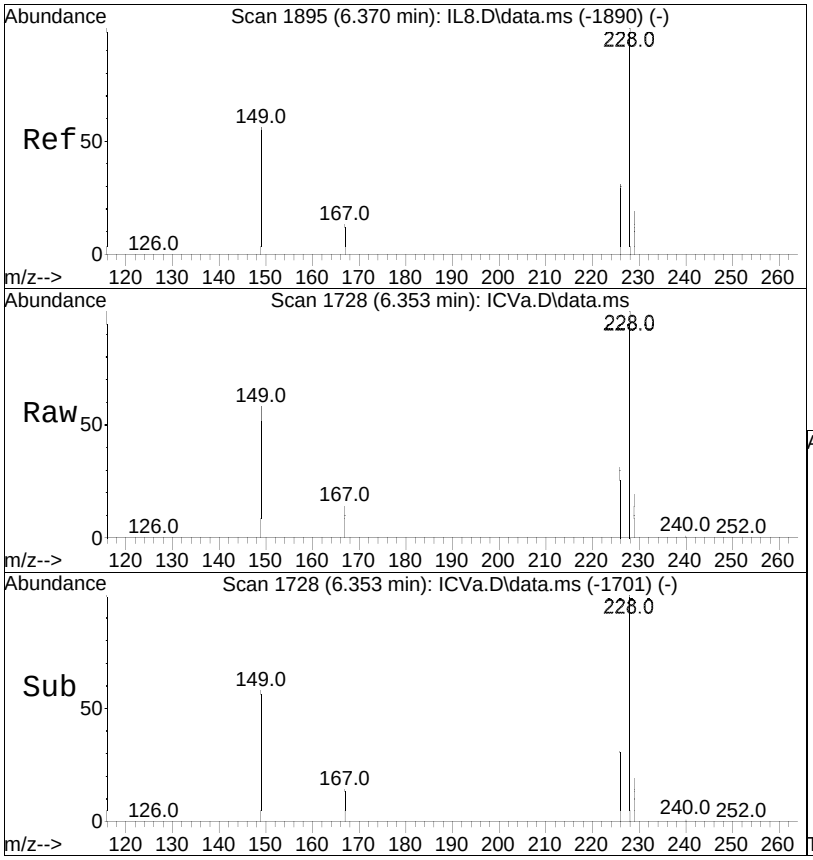


#33
3,3'-Dichlorobenzene
Concen: 906.48 ng/ml
RT: 6.312 min Scan# 1711
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 66162

Ion	Ratio	Lower	Upper
252	100		
126	11.3	9.4	14.2
254	64.6	51.4	77.2

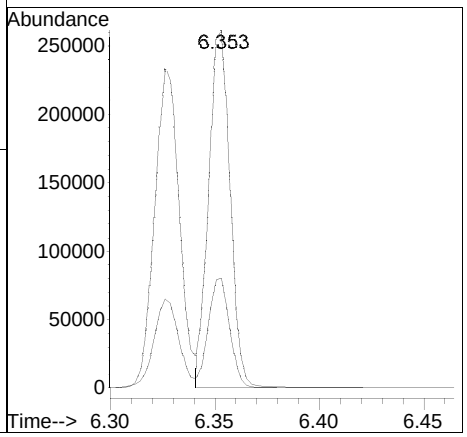


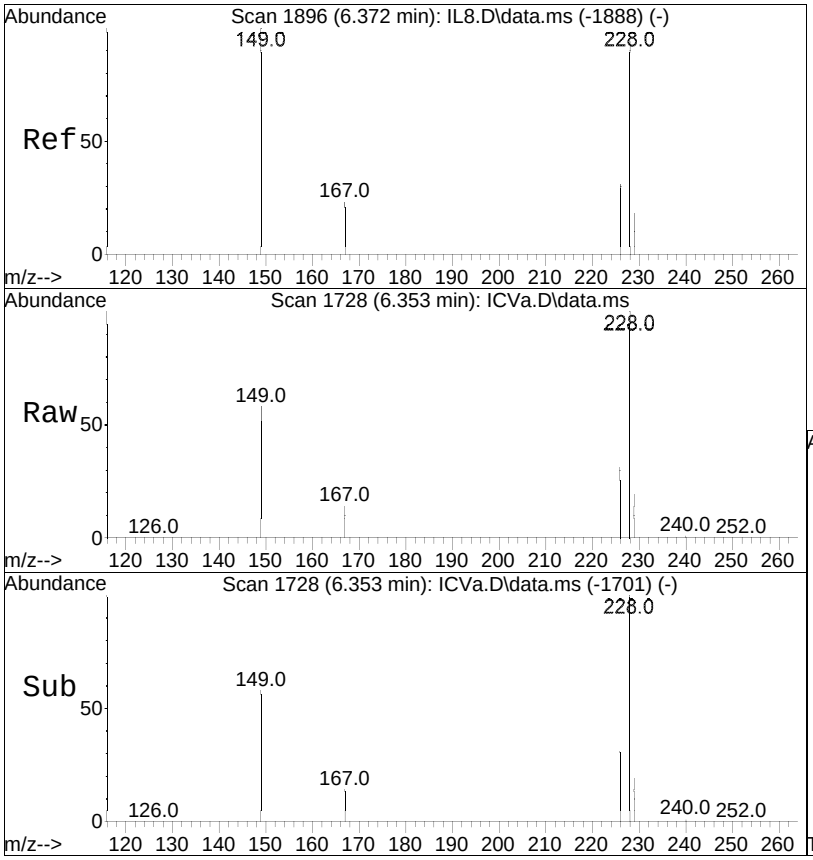


#34
Chrysene
Concen: 932.50 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:228 Resp: 185135

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.1	37.7

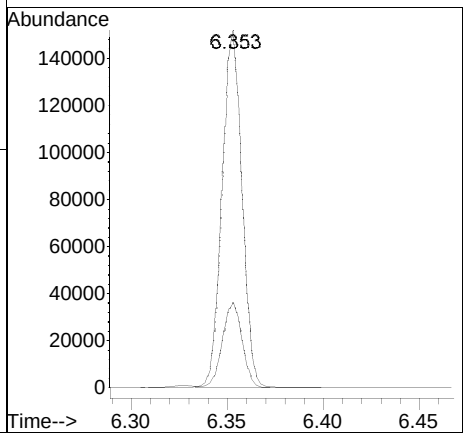


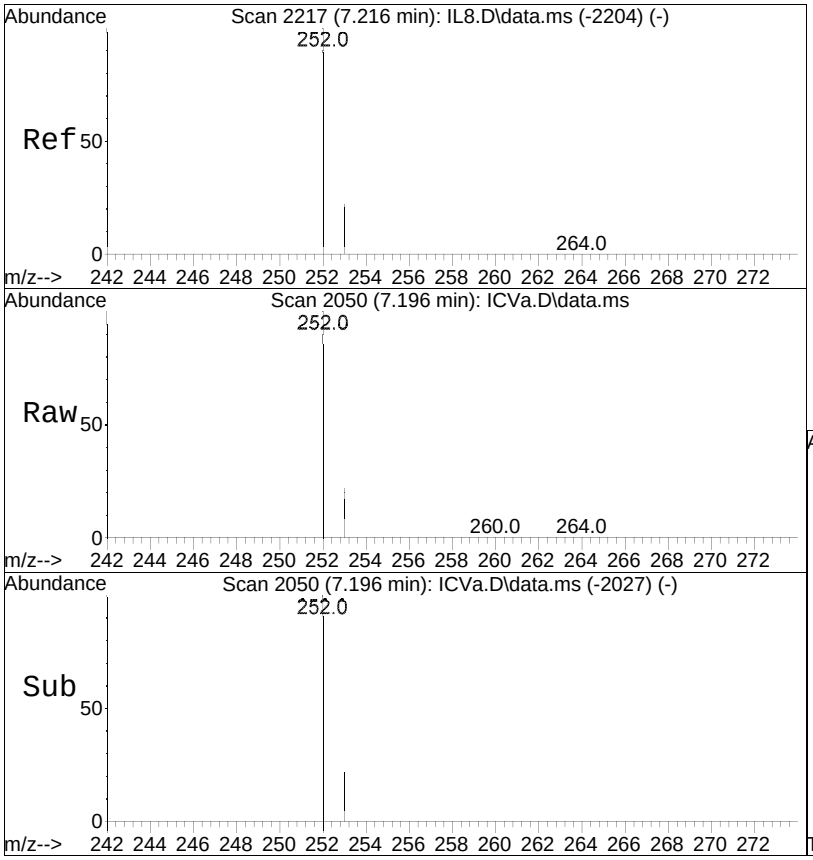


#35
Bis(2-ethylhexyl)phthalate
Concen: 808.77 ng/ml
RT: 6.353 min Scan# 1728
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:149 Resp: 107790

Ion	Ratio	Lower	Upper
149	100		
167	24.1	19.2	28.8

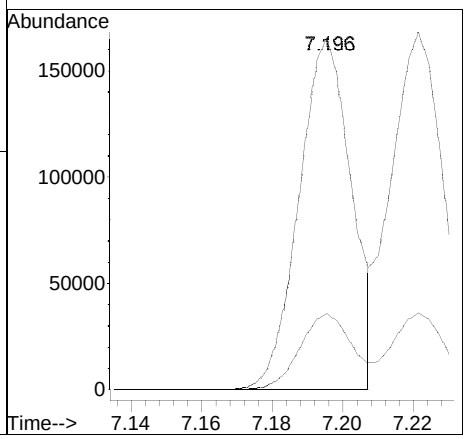


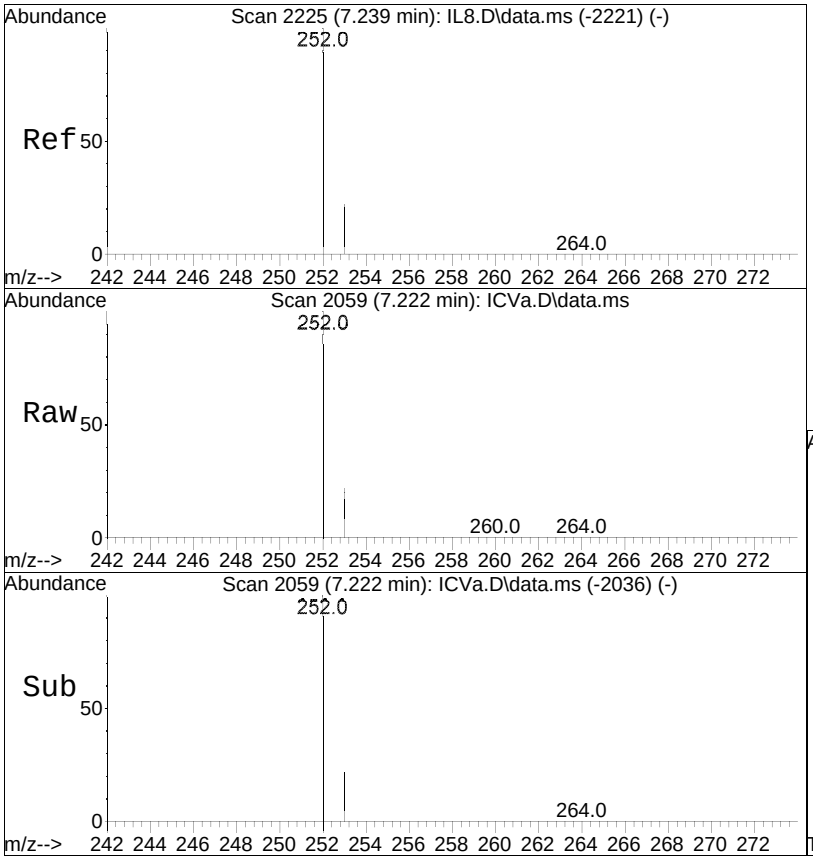


#37
Benzo[b]fluoranthene
Concen: 960.76 ng/ml
RT: 7.196 min Scan# 2050
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 170922

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

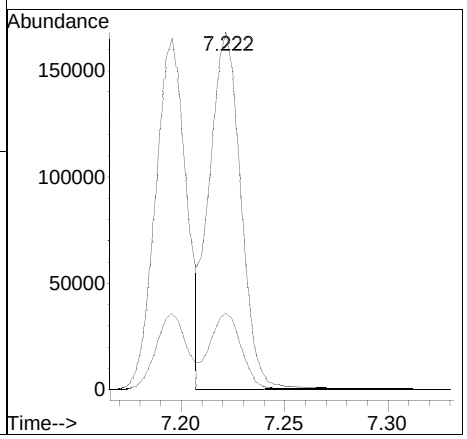


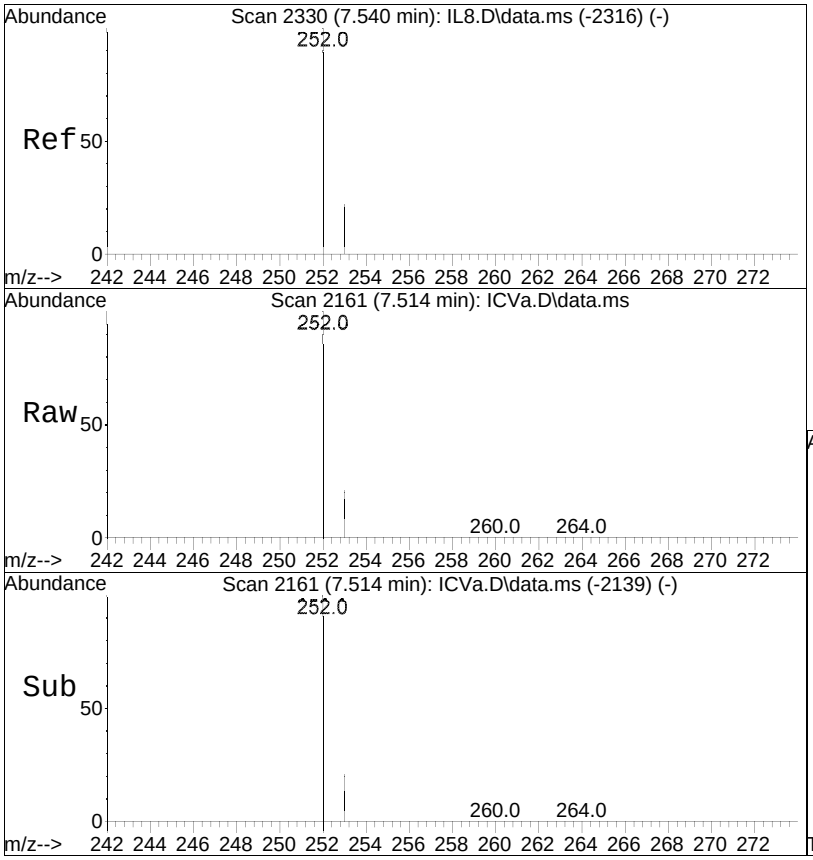


#38
Benzo[k]fluoranthene
Concen: 1038.03 ng/ml
RT: 7.222 min Scan# 2059
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 175807

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

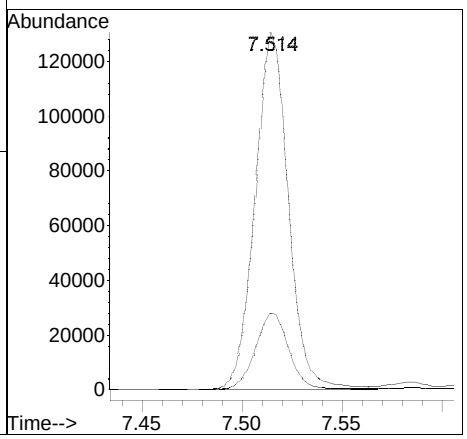


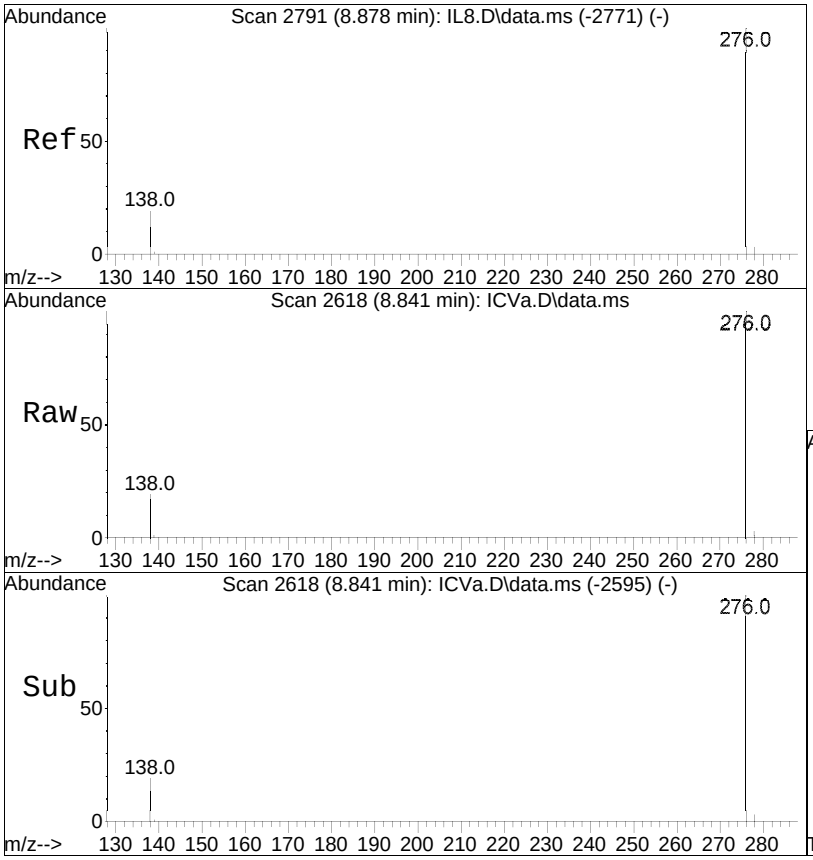


#39
Benzo[a]pyrene
Concen: 1017.95 ng/ml
RT: 7.514 min Scan# 2161
Delta R.T. -0.017 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:252 Resp: 149283

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

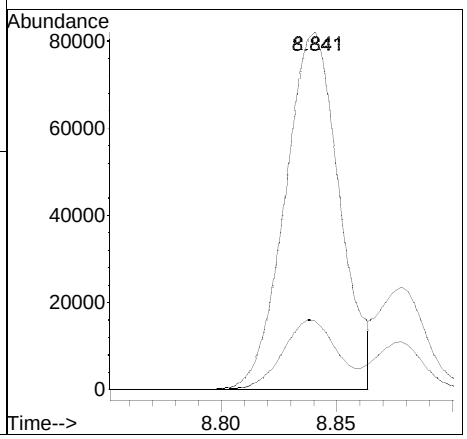


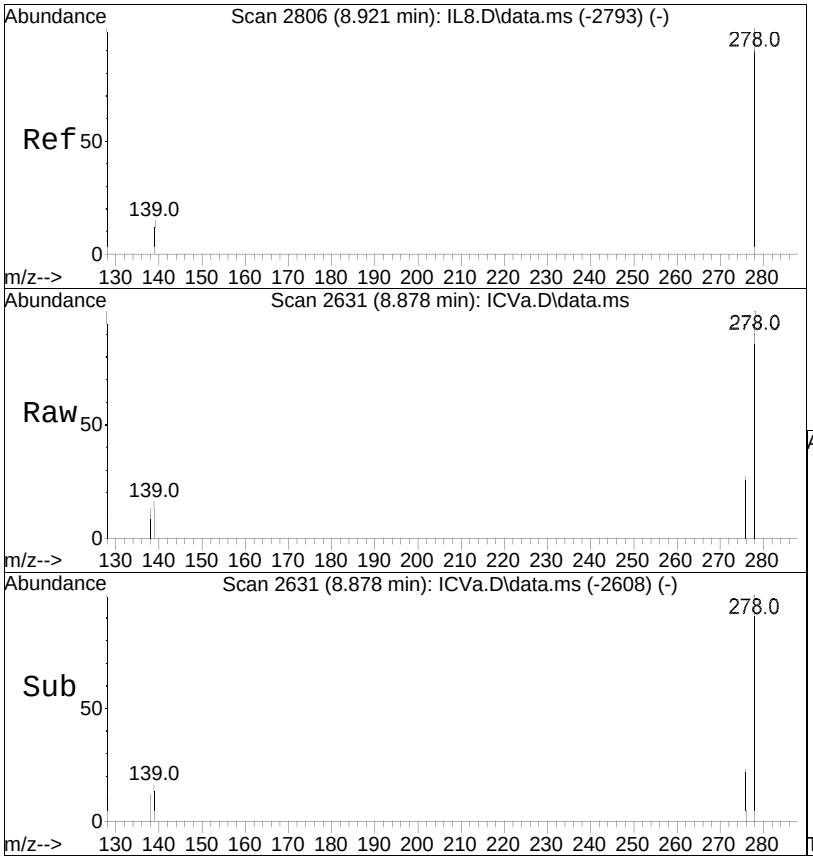


#40
Indeno[1,2,3-cd]pyrene
Concen: 967.78 ng/ml
RT: 8.841 min Scan# 2618
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 133663

Ion	Ratio	Lower	Upper
276	100		
138	19.2	16.6	24.8

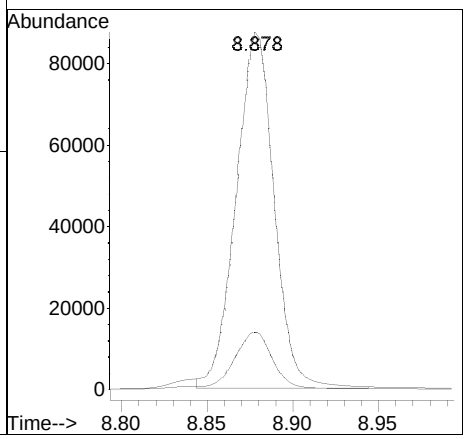


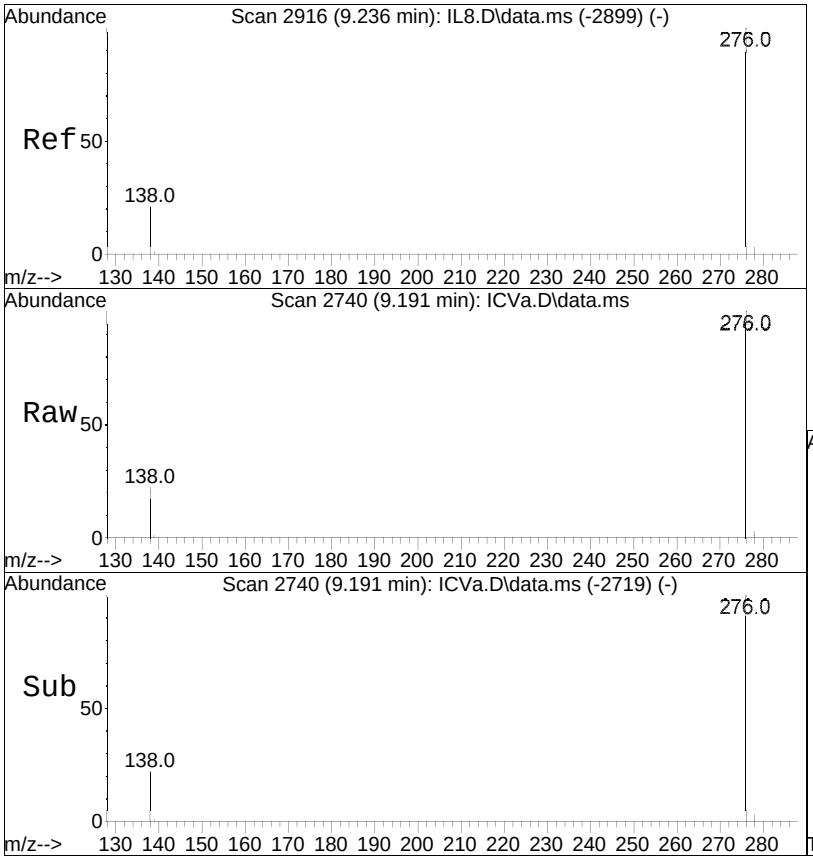


#41
Dibenzo[a,h]anthracene
Concen: 1014.95 ng/ml M6
RT: 8.878 min Scan# 2631
Delta R.T. -0.014 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:278 Resp: 134229

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.0	21.0

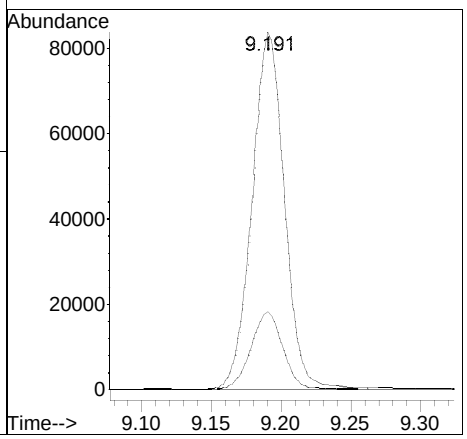




#42
Benzo[g,h,i]perylene
Concen: 945.66 ng/ml
RT: 9.191 min Scan# 2740
Delta R.T. -0.019 min
Lab File: ICVa.D
Acq: 22 May 2024 01:49 pm

Tgt Ion:276 Resp: 132877

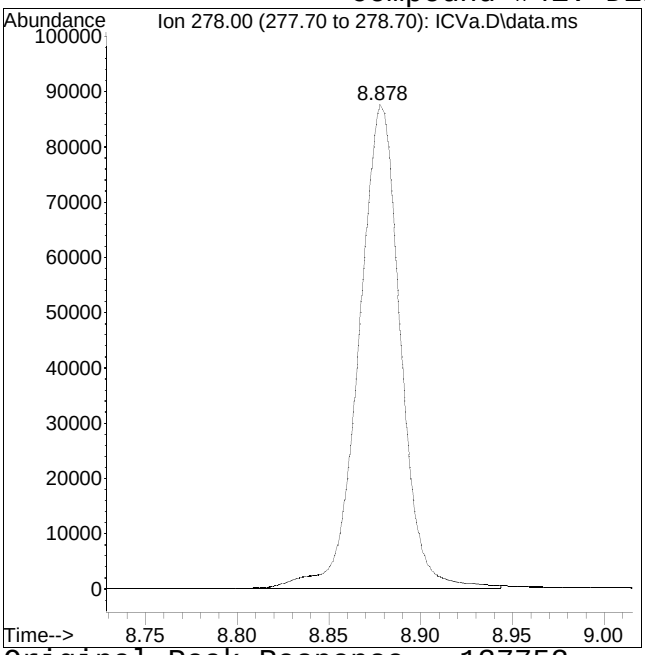
Ion	Ratio	Lower	Upper
276	100		
138	21.7	17.8	26.8



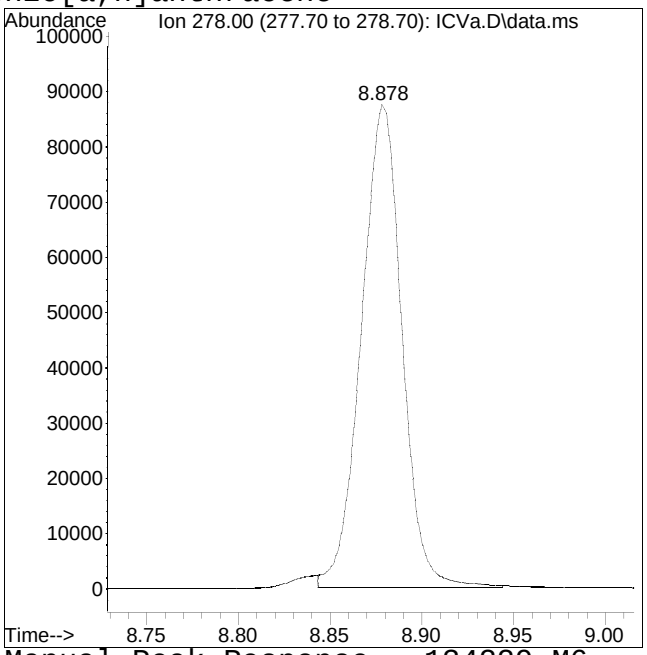
Manual Integration Report

Data Path : I:\8270SIM\sv120\240521RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ICVa.D Operator : SV120:dv
Date Inj'd : 5/22/2024 1:49 pm Instrument : SV120
Sample : CQICV,32,,1000.0ng/mL lot Quant Date : 5/30/2024 4:03 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 137752



Manual Peak Response = 134229 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240521RVTical\
Method File : SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu May 30 15:58:11 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	L	ng/ml	1000.0	966.239	-3.4	40.00	46.308	15.8
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	992.757	-0.7	40.00	44.881	12.2
21 S	2,4,6-Tribromophenol	L	ng/ml	1000.0	1003.133	0.3	5.00	7.008	40.2
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	1003.249	0.3	40.00	49.087	22.7
25 T	Pentachlorophenol	L	ng/ml	1000.0	966.229	-3.4	40.00	53.577	33.9
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	1041.595	4.2	2.00	2.711	35.5
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	942.425	-5.8	40.00	52.192	30.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Linear	0.999448	0.000000	0.183839	-0.000895016
19 T	2,4-Dinitrotoluene	Linear	0.999511	0.000000	0.45501	-0.00231271
21 S	2,4,6-Tribromophenol	Linear	0.998848	0.000000	0.272783	-0.000292982
23 T	4,6-Dinitro-o-cresol	Quadratic	0.998456	0.005565	0.120149	-0.000968136
25 T	Pentachlorophenol	Linear	0.997306	0.000000	0.173818	-0.00194907
32 T	Benzo[a]anthracene	Linear	0.999149	0.000000	1.5238	0.00281616
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.996952	0.000000	1.01011	-0.00743669

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/17/24 07:04		
Lab File ID	: CCV0617	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935125-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	60	0
2-Fluorophenol	1.189	1.093	.05	8.1	20	52	0
Phenol-d6	1.429	1.329	.05	7	20	52	0
Bis(2-chloroethyl)ether	1.263	1.184	.05	6.3	20	56	0
n-nitrosodi-n-propylamine	0.866	0.857	.05	1	20	55	0
Hexachloroethane	0.572	0.533	.05	6.8	20	54	0
Nitrobenzene-d5	1.273	1.266	.05	0.5	20	56	0
Naphthalene-d8	1	1	.05	0	20	62	0
Naphthalene	1.131	1.007	.05	11	20	56	0
Hexachlorobutadiene	0.216	0.201	.05	6.9	20	56	0
2-Methylnaphthalene	0.705	0.683	.05	3.1	20	57	0
1-Methylnaphthalene	0.664	0.627	.05	5.6	20	57	0
2-Fluorobiphenyl	0.851	0.808	.05	5.1	20	58	0
2-Chloronaphthalene	0.721	0.695	.05	3.6	20	58	0
2,6-Dinitrotoluene	1000	974.946	.05	2.5	20	62	0
Acenaphthylene	1.061	1.096	.05	-3.3	20	58	0
Acenaphthene-d10	1	1	.05	0	20	68	0
Acenaphthene	1.372	1.275	.05	7.1	20	62	0
2,4-Dinitrotoluene	1000	943.166	.05	5.7	20	65	0
Fluorene	1.479	1.423	.05	3.8	20	63	0
2,4,6-Tribromophenol	1000	944.525	.05	5.5	20	64	0
Phenanthrene-d10	1	1	.05	0	20	77	0
4,6-Dinitro-o-cresol	1000	882.936	.05	11.7	20	67	0
Hexachlorobenzene	0.288	0.255	.05	11.5	20	66	0
Pentachlorophenol	1000	842.938	.05	15.7	20	66	0
Phenanthrene	1.125	1.019	.05	9.4	20	65	0
Anthracene	1.111	1.034	.05	6.9	20	67	0
Fluoranthene	1.22	1.213	.05	0.6	20	73	0
Pyrene	1.265	1.266	.05	-0.1	20	73	0
4-Terphenyl-d14	0.814	0.802	.05	1.5	20	76	0
Chrysene-d12	1	1	.05	0	20	94	0
Benzo[a]anthracene	1000	866.195	.05	13.4	20	78	0
3,3'-Dichlorobenzene	0.533	0.488	.05	8.4	20	78	0
Chrysene	1.45	1.279	.05	11.8	20	80	0
Bis(2-ethylhexyl)phthalate	1000	813.73	.05	18.6	20	81	0
Perylene-d12	1	1	.05	0	20	102	0
Benzo[b]fluoranthene	1.323	1.259	.05	4.8	20	86	0
Benzo[k]fluoranthene	1.259	1.174	.05	6.8	20	85	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	87	0
Indeno[1,2,3-cd]pyrene	1.027	1.031	.05	-0.4	20	94	0
Dibenzo[a,h]anthracene	0.983	1.019	.05	-3.7	20	93	0
Benzo[g,h,i]perylene	1.045	1.003	.05	4	20	91	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/18/24 07:13		
Lab File ID	: CCV0618	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935718-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	58	0
2-Fluorophenol	1.189	1.097	.05	7.7	20	50	0
Phenol-d6	1.429	1.327	.05	7.1	20	50	0
Bis(2-chloroethyl)ether	1.263	1.182	.05	6.4	20	53	0
n-nitrosodi-n-propylamine	0.866	0.837	.05	3.3	20	51	0
Hexachloroethane	0.572	0.528	.05	7.7	20	51	0
Nitrobenzene-d5	1.273	1.237	.05	2.8	20	52	0
Naphthalene-d8	1	1	.05	0	20	58	0
Naphthalene	1.131	1.001	.05	11.5	20	52	0
Hexachlorobutadiene	0.216	0.203	.05	6	20	53	0
2-Methylnaphthalene	0.705	0.675	.05	4.3	20	53	0
1-Methylnaphthalene	0.664	0.621	.05	6.5	20	53	0
2-Fluorobiphenyl	0.851	0.8	.05	6	20	54	0
2-Chloronaphthalene	0.721	0.676	.05	6.2	20	53	0
2,6-Dinitrotoluene	1000	928.032	.05	7.2	20	56	0
Acenaphthylene	1.061	1.057	.05	0.4	20	52	0
Acenaphthene-d10	1	1	.05	0	20	62	0
Acenaphthene	1.372	1.26	.05	8.2	20	56	0
2,4-Dinitrotoluene	1000	899.121	.05	10.1	20	56	0
Fluorene	1.479	1.376	.05	7	20	56	0
2,4,6-Tribromophenol	1000	928.277	.05	7.2	20	58	0
Phenanthrene-d10	1	1	.05	0	20	68	0
4,6-Dinitro-o-cresol	1000	879.713	.05	12	20	60	0
Hexachlorobenzene	0.288	0.256	.05	11.1	20	59	0
Pentachlorophenol	1000	851.412	.05	14.9	20	60	0
Phenanthrene	1.125	1.006	.05	10.6	20	57	0
Anthracene	1.111	1.013	.05	8.8	20	59	0
Fluoranthene	1.22	1.18	.05	3.3	20	63	0
Pyrene	1.265	1.24	.05	2	20	64	0
4-Terphenyl-d14	0.814	0.792	.05	2.7	20	67	0
Chrysene-d12	1	1	.05	0	20	84	0
Benzo[a]anthracene	1000	841.882	.05	15.8	20	68	0
3,3'-Dichlorobenzene	0.533	0.485	.05	9	20	69	0
Chrysene	1.45	1.279	.05	11.8	20	71	0
Bis(2-ethylhexyl)phthalate	1000	808.053	.05	19.2	20	72	0
Perylene-d12	1	1	.05	0	20	93	0
Benzo[b]fluoranthene	1.323	1.205	.05	8.9	20	76	0
Benzo[k]fluoranthene	1.259	1.187	.05	5.7	20	79	0
Benzo[a]pyrene	1.09	1.06	.05	2.8	20	79	0
Indeno[1,2,3-cd]pyrene	1.027	1.073	.05	-4.5	20	90	0
Dibenzo[a,h]anthracene	0.983	1.055	.05	-7.3	20	88	0
Benzo[g,h,i]perylene	1.045	1.033	.05	1.1	20	86	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	60	0.00
2	s	2-Fluorophenol	1.189	1.093	8.1	52	0.00
3	s	Phenol-d6	1.429	1.329	7.0	52	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.184	6.3	56	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.857	1.0	55	0.00
6	t	Hexachloroethane	0.572	0.533	6.8	54	0.00
7	s	Nitrobenzene-d5	1.273	1.266	0.5	56	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	62	0.00
9	t	Naphthalene	1.131	1.007	11.0	56	0.00
10	t	Hexachlorobutadiene	0.216	0.201	6.9	56	0.00
11	t	2-Methylnaphthalene	0.705	0.683	3.1	57	0.00
12	t	1-Methylnaphthalene	0.664	0.627	5.6	57	0.00
13	s	2-Fluorobiphenyl	0.851	0.808	5.1	58	0.00
14	t	2-Chloronaphthalene	0.721	0.695	3.6	58	0.00
15	t	2,6-Dinitrotoluene	*1000.000	974.946	2.5	62	0.00
16	t	Acenaphthylene	1.061	1.096	-3.3	58	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
18	t	Acenaphthene	1.372	1.275	7.1	62	0.00
19	t	2,4-Dinitrotoluene	*1000.000	943.166	5.7	65	0.00
20	t	Fluorene	1.479	1.423	3.8	63	0.00
21	s	2,4,6-Tribromophenol	*1000.000	944.525	5.5	64	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	882.936	11.7	67	0.00
24	t	Hexachlorobenzene	0.288	0.255	11.5	66	0.00
25	t	Pentachlorophenol	*1000.000	842.938	15.7	66	0.00
26	t	Phenanthrene	1.125	1.019	9.4	65	0.00
27	t	Anthracene	1.111	1.034	6.9	67	0.00
28	t	Fluoranthene	1.220	1.213	0.6	73	0.00
29	t	Pyrene	1.265	1.266	-0.1	73	0.00
30	s	4-Terphenyl-d14	0.814	0.802	1.5	76	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	94	0.00
32	t	Benzo[a]anthracene	*1000.000	866.195	13.4	78	0.00
33	t	3,3'-Dichlorobenzene	0.533	0.488	8.4	78	0.00
34	t	Chrysene	1.450	1.279	11.8	80	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	813.730	18.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	102	0.00
37	t	Benzo[b]fluoranthene	1.323	1.259	4.8	86	0.00
38	t	Benzo[k]fluoranthene	1.259	1.174	6.8	85	0.00
39	t	Benzo[a]pyrene	1.090	1.073	1.6	87	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.027	1.031	-0.4	94	0.00
41	t	Dibenzo[a,h]anthracene	0.983	1.019	-3.7	93	0.00
42	t	Benzo[g,h,i]perylene	1.045	1.003	4.0	91	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.207	152	108607	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.868	136	406711	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.841	164	240410	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.678	188	525169	4000.000	ng/ml	0.00
31) Chrysene-d12	6.212	240	478566	4000.000	ng/ml	0.00
36) Perylene-d12	7.381	264	501063	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	29686	919.662	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.98%			
3) Phenol-d6	2.023	99	36094	930.229	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.51%			
7) Nitrobenzene-d5	2.485	82	34383	994.573	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.46%			
13) 2-Fluorobiphenyl	3.464	172	82144	949.868	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.99%			
21) 2,4,6-Tribromophenol	4.286	330	15415	944.525	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.23%			
30) 4-Terphenyl-d14	5.586	244	105262	985.096	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 49.25%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.073	93	32137	937.120	ng/ml	98
5) n-nitrosodi-n-propylamine	2.407	70	23279	989.919	ng/ml	100
6) Hexachloroethane	2.464	117	14466	930.981	ng/ml	100
9) Naphthalene	2.878	128	102401	890.739	ng/ml	99
10) Hexachlorobutadiene	2.951	225	20458	930.275	ng/ml	100
11) 2-Methylnaphthalene	3.258	142	69413	967.766	ng/ml	100
12) 1-Methylnaphthalene	3.313	142	63799	945.048	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	70688	964.262	ng/ml	100
15) 2,6-Dinitrotoluene	3.724	165	17860	974.946	ng/ml	98
16) Acenaphthylene	3.760	152	111408	1032.628	ng/ml	100
18) Acenaphthene	3.857	153	76639	929.098	ng/ml	99
19) 2,4-Dinitrotoluene	3.949	165	25237	943.166	ng/ml#	79
20) Fluorene	4.148	166	85528	961.901	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.179	198	13562	882.936	ng/ml	98
24) Hexachlorobenzene	4.464	284	33517	885.759	ng/ml	99
25) Pentachlorophenol	4.575	266	18213	842.938	ng/ml	100
26) Phenanthrene	4.689	178	133734	905.660	ng/ml	100
27) Anthracene	4.717	178	135733	930.316	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.364	202	159199	994.072	ng/ml	99
29) Pyrene	5.493	202	166254	1001.143	ng/ml	100
32) Benzo[a]anthracene	6.201	228	159263	866.195	ng/ml	100
33) 3,3'-Dichlorobenzene	6.189	252	58379	915.424	ng/ml	100
34) Chrysene	6.226	228	153053	882.304	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.229	149	94781	813.730	ng/ml	100
37) Benzo[b]fluoranthene	7.013	252	157684	951.733	ng/ml	100
38) Benzo[k]fluoranthene	7.039	252	147048	932.266	ng/ml	100
39) Benzo[a]pyrene	7.315	252	134388	983.981	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.562	276	129117	1003.826	ng/ml	98
41) Dibenzo[a,h]anthracene	8.597	278	127615M6	1036.114	ng/ml	
42) Benzo[g,h,i]perylene	8.893	276	125703	960.595	ng/ml	100

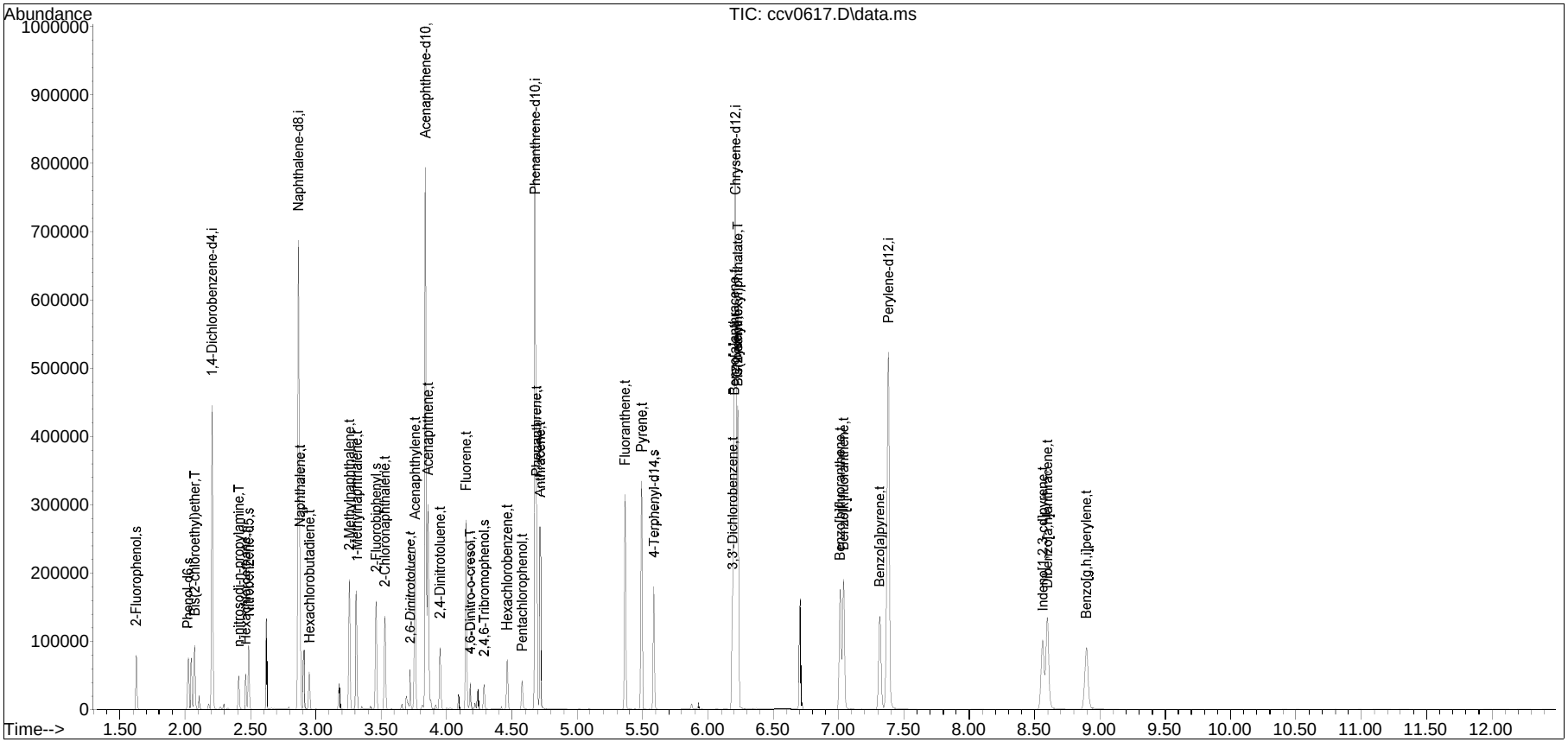
(#) = qualifier out of range (m) = manual integration (+) = signals summed

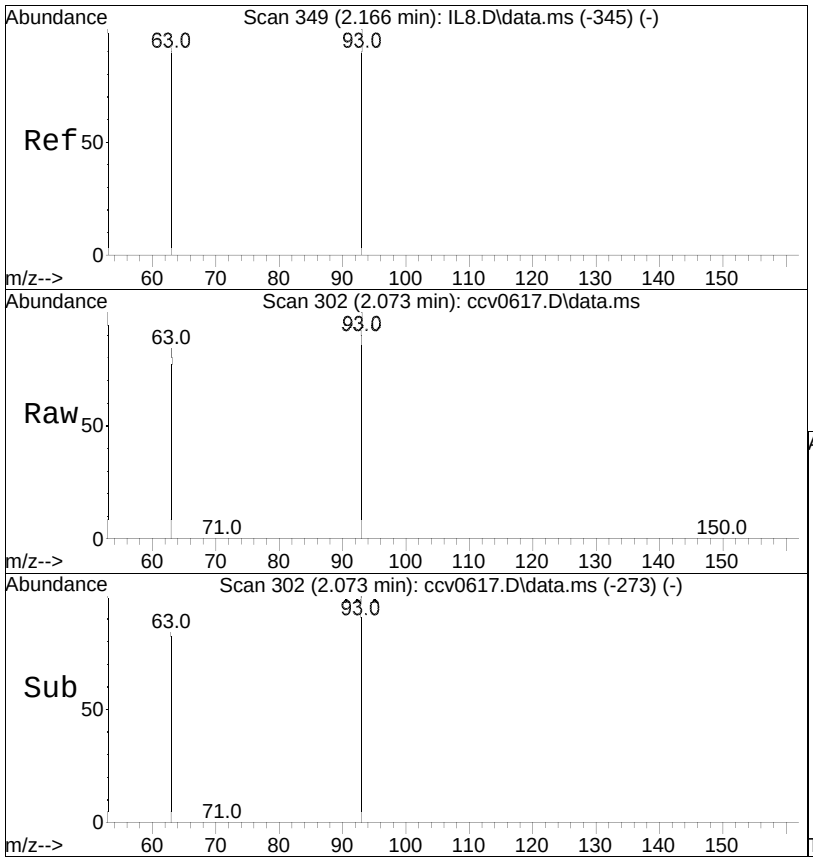
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : ccv0617.D
Acq On : 17 Jun 2024 07:04 am
Operator : SV120:ah
Sample : WG1935125-3,32,, ICV10475 0617
Misc : WG1935125,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 17 07:20:32 2024
Quant Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:09 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

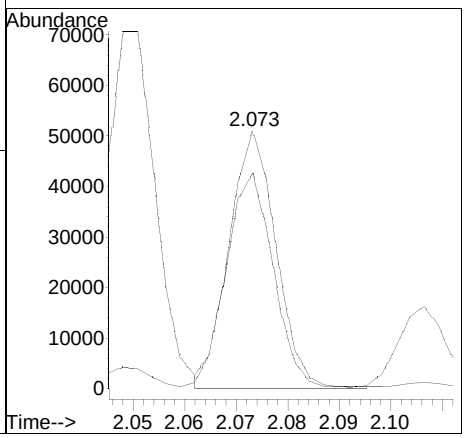


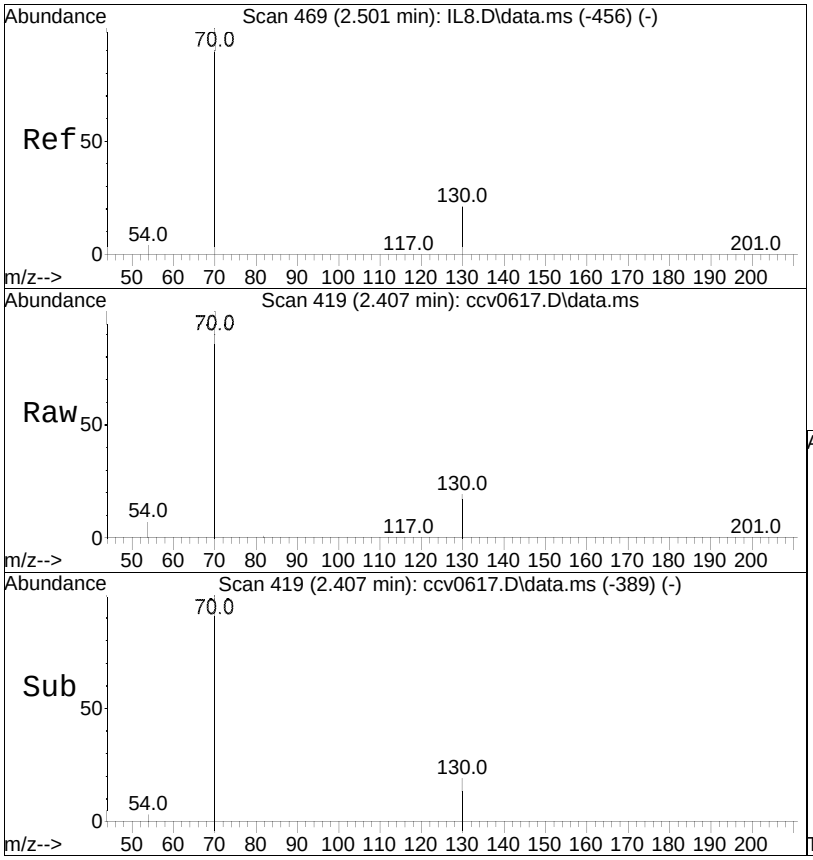


#4
Bis(2-chloroethyl)ether
Concen: 937.12 ng/ml
RT: 2.073 min Scan# 302
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion: 93 Resp: 32137

Ion	Ratio	Lower	Upper
93	100		
63	84.2	68.6	102.8

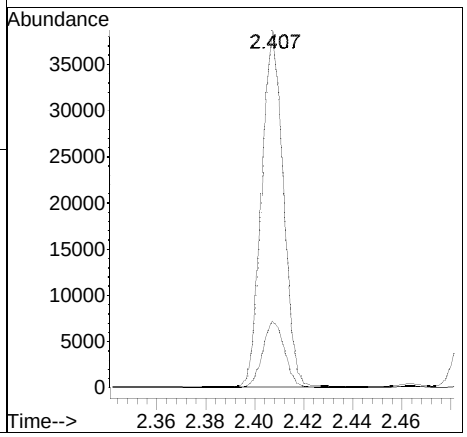


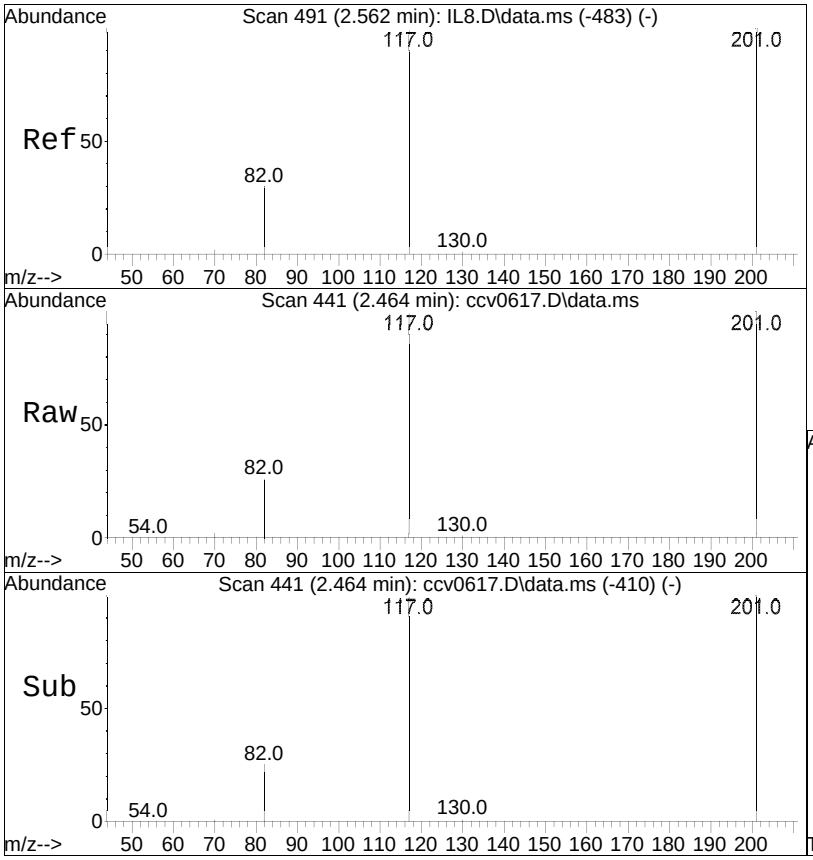


#5
n-nitrosodi-n-propylamine
Concen: 989.92 ng/ml
RT: 2.407 min Scan# 419
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion: 70 Resp: 23279

Ion	Ratio	Lower	Upper
70	100		
130	19.0	15.1	22.7

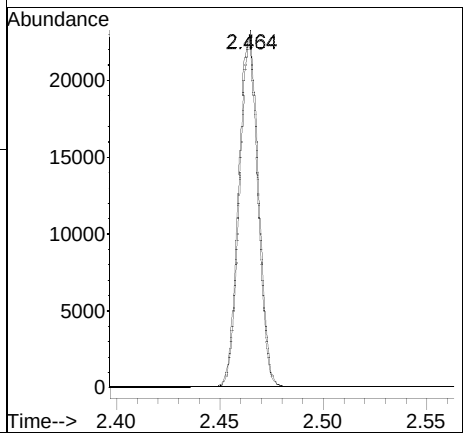


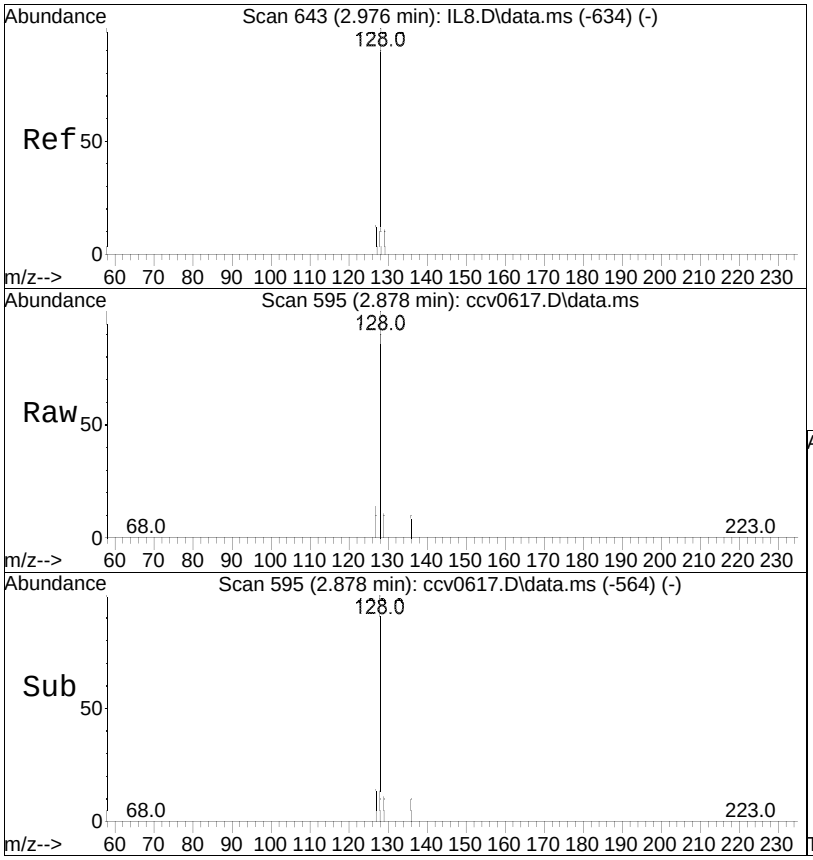


#6
Hexachloroethane
Concen: 930.98 ng/ml
RT: 2.464 min Scan# 441
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:117 Resp: 14466

Ion	Ratio	Lower	Upper
117	100		
201	99.7	79.4	119.2

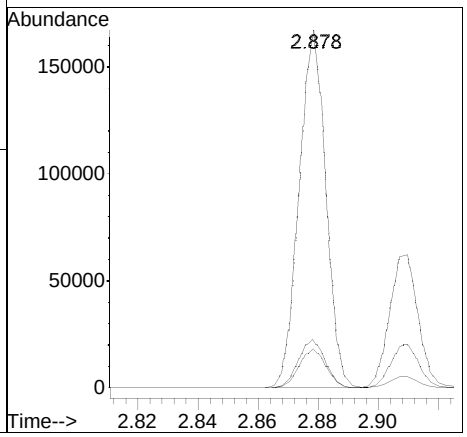


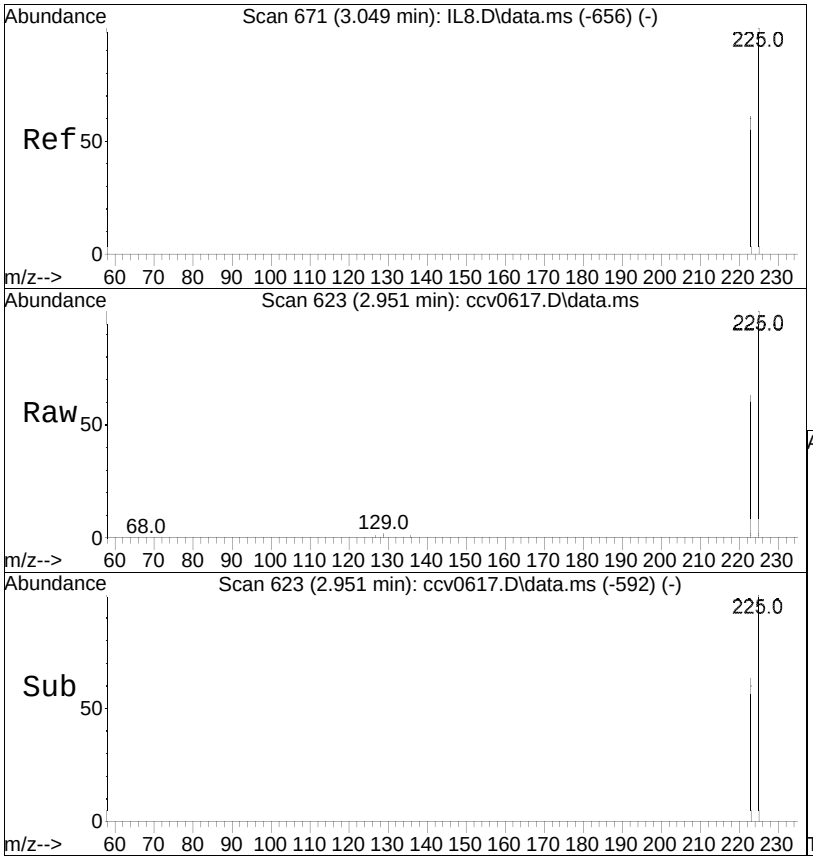


#9
Naphthalene
Concen: 890.74 ng/ml
RT: 2.878 min Scan# 595
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:128 Resp: 102401

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.7	11.3	16.9

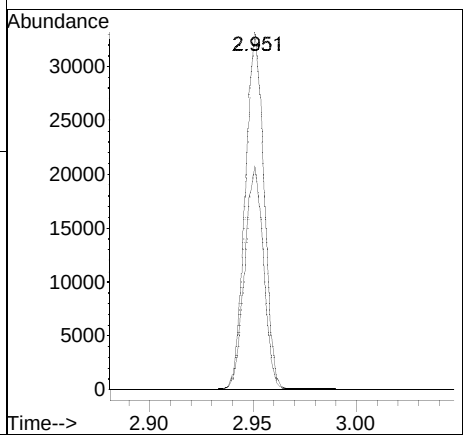


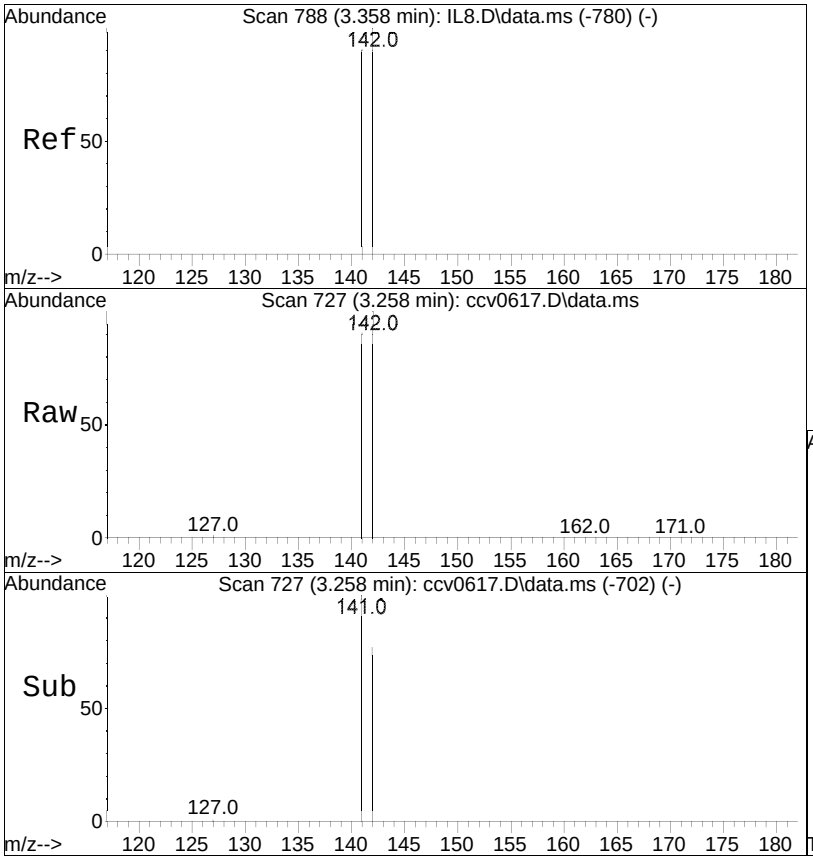


#10
Hexachlorobutadiene
Concen: 930.28 ng/ml
RT: 2.951 min Scan# 623
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:225 Resp: 20458

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

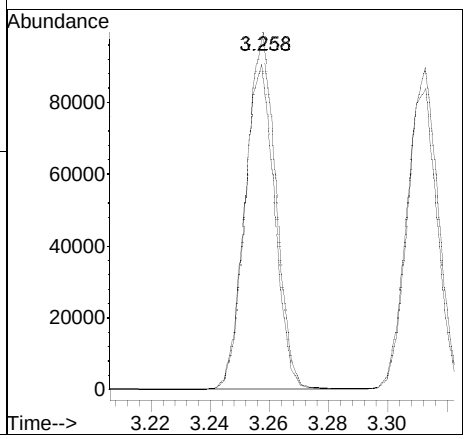


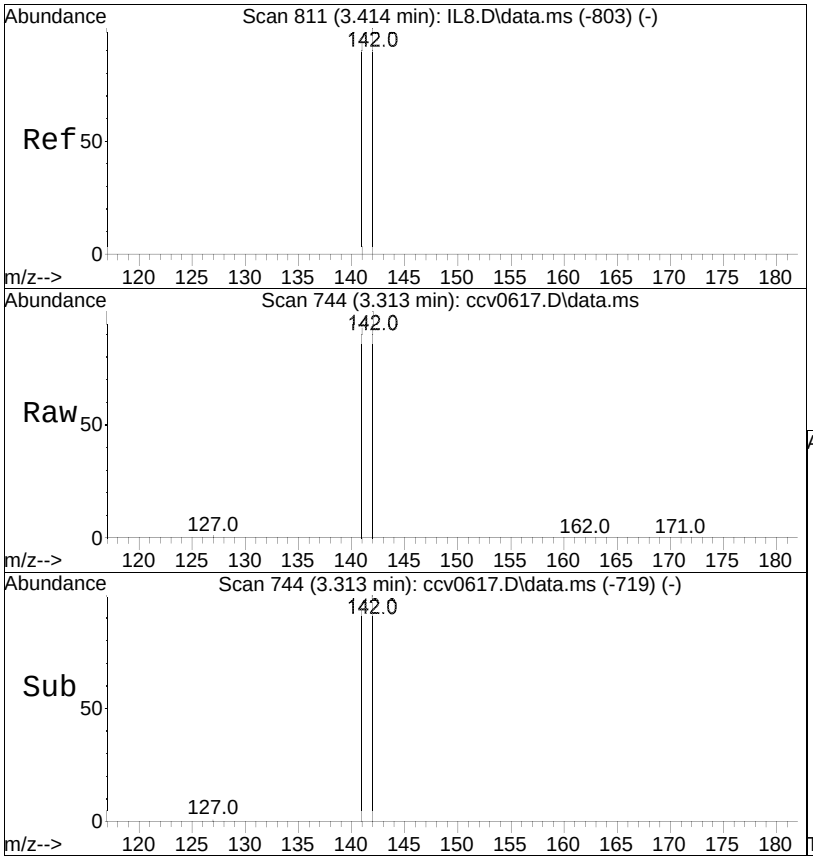


#11
2-Methylnaphthalene
Concen: 967.77 ng/ml
RT: 3.258 min Scan# 727
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:142 Resp: 69413

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6

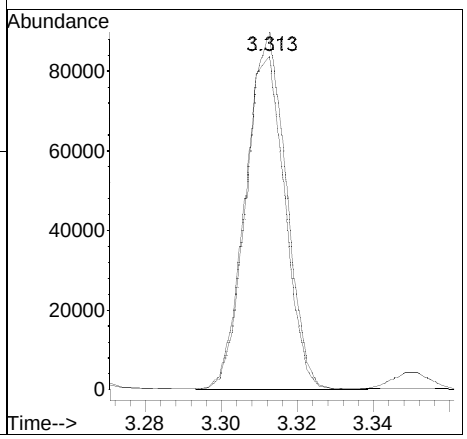


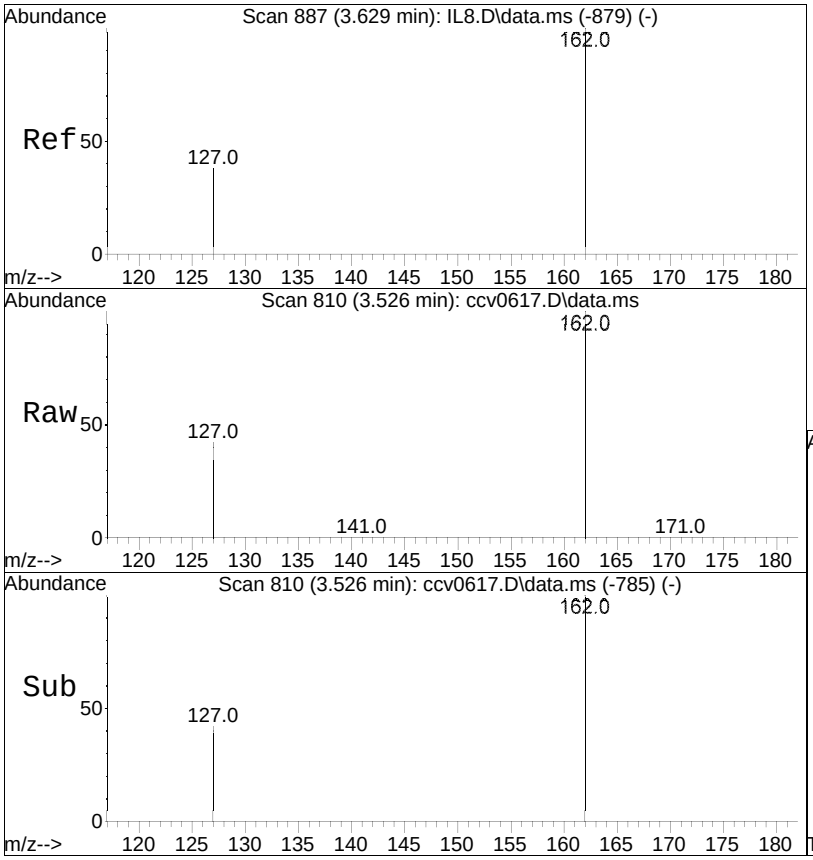


#12
1-Methylnaphthalene
Concen: 945.05 ng/ml
RT: 3.313 min Scan# 744
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:142 Resp: 63799

Ion	Ratio	Lower	Upper
142	100		
141	95.7	76.3	114.5

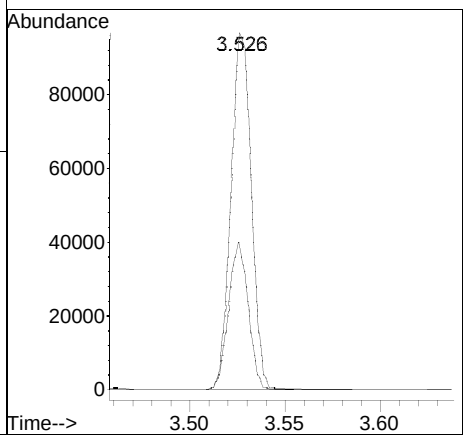


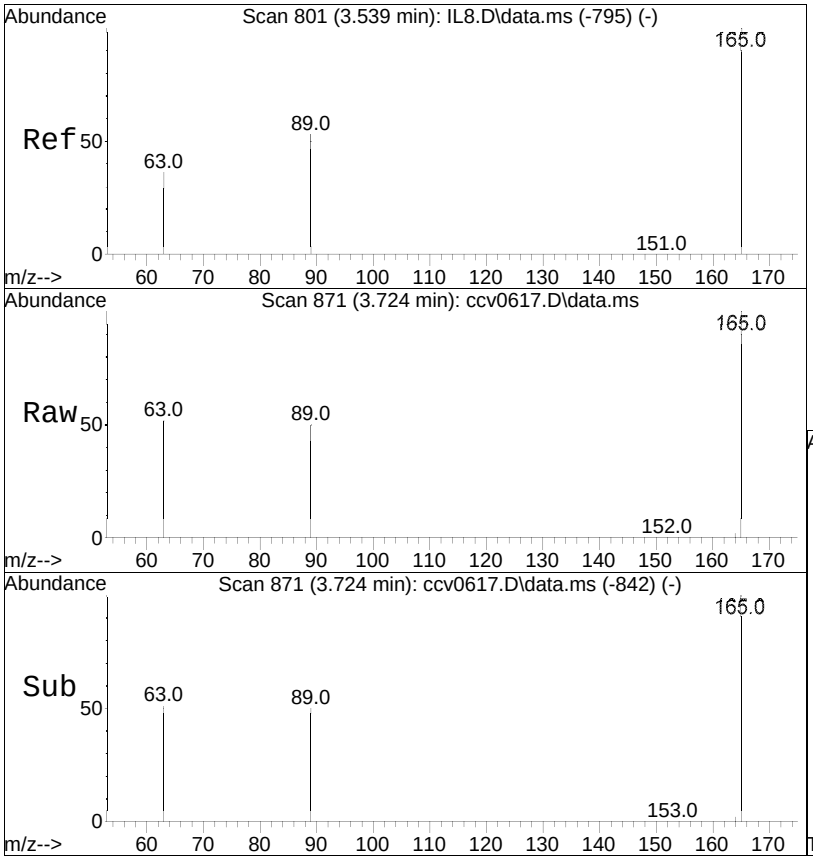


#14
2-Chloronaphthalene
Concen: 964.26 ng/ml
RT: 3.526 min Scan# 810
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:162 Resp: 70688

Ion	Ratio	Lower	Upper
162	100		
127	40.0	32.0	48.0

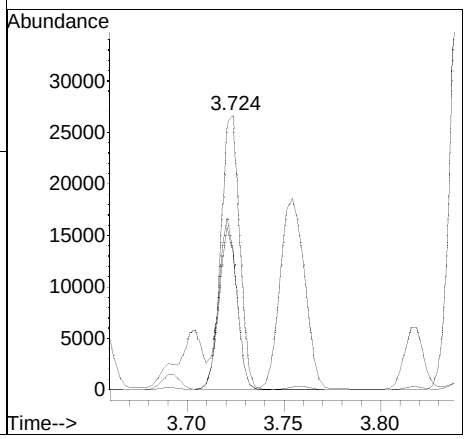


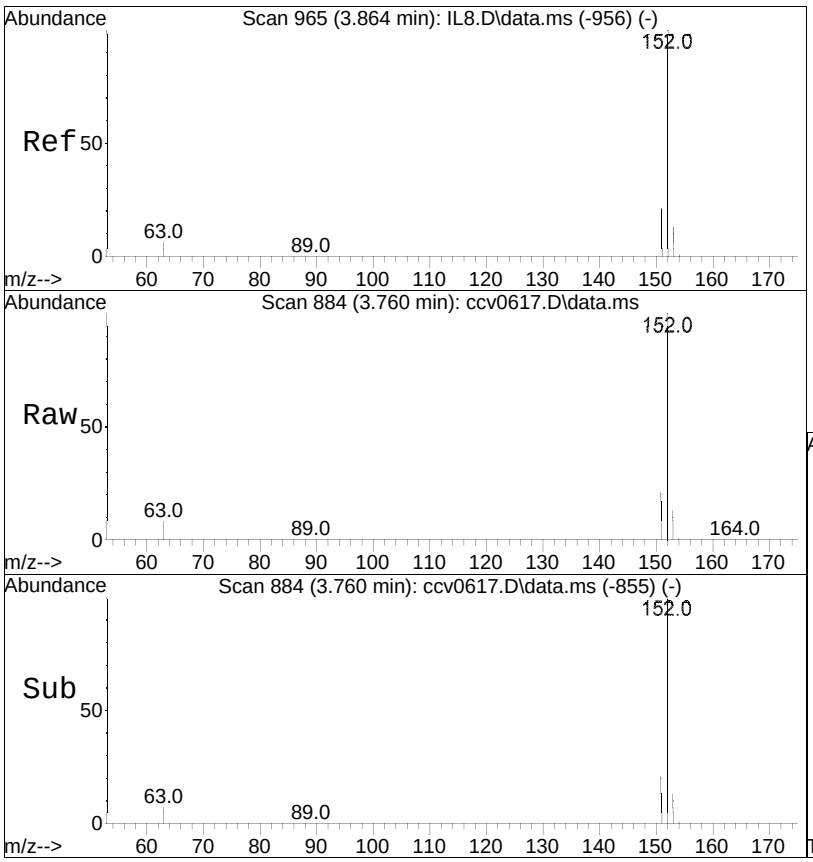


#15
2,6-Dinitrotoluene
Concen: 974.95 ng/ml
RT: 3.724 min Scan# 871
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:165 Resp: 17860

Ion	Ratio	Lower	Upper
165	100		
89	57.2	48.0	72.0
63	59.4	48.2	72.2

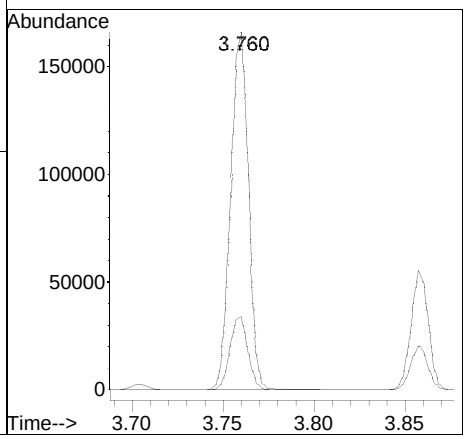


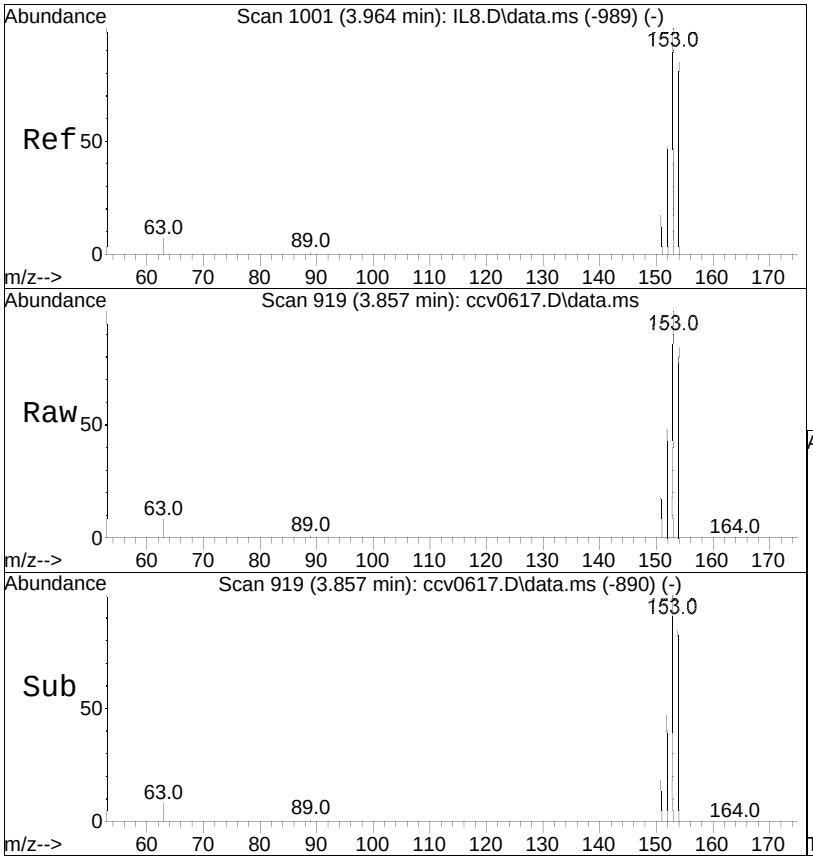


#16
Acenaphthylene
Concen: 1032.63 ng/ml
RT: 3.760 min Scan# 884
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:152 Resp: 111408

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

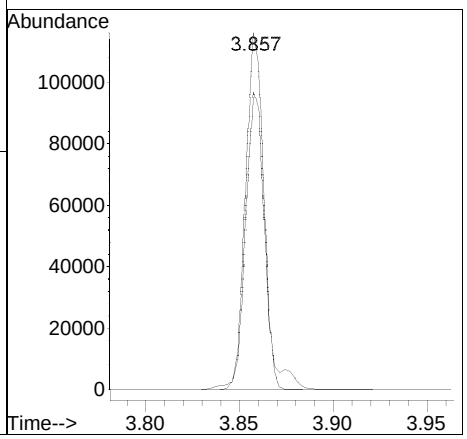


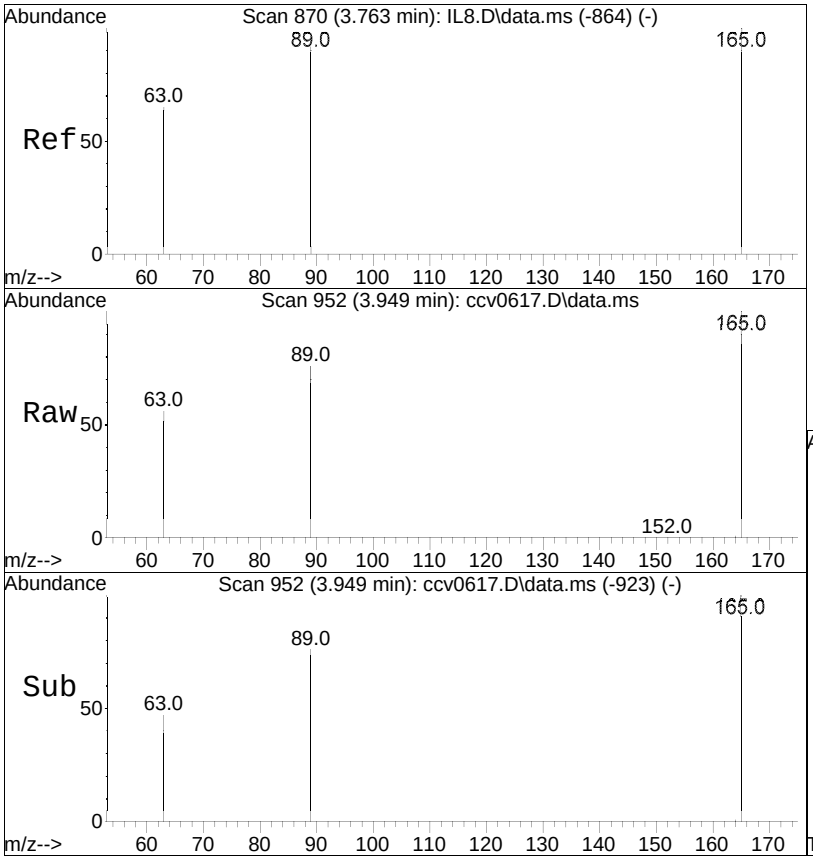


#18
Acenaphthene
Concen: 929.10 ng/ml
RT: 3.857 min Scan# 919
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:153 Resp: 76639

Ion	Ratio	Lower	Upper
153	100		
154	91.1	73.4	110.2

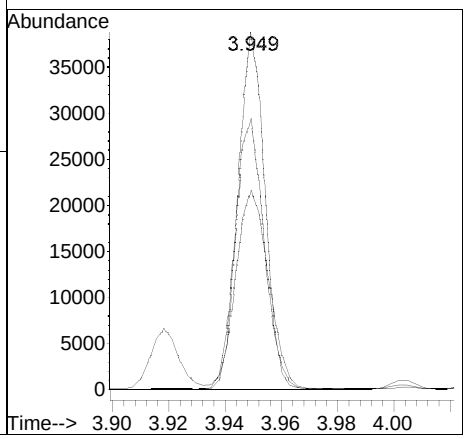


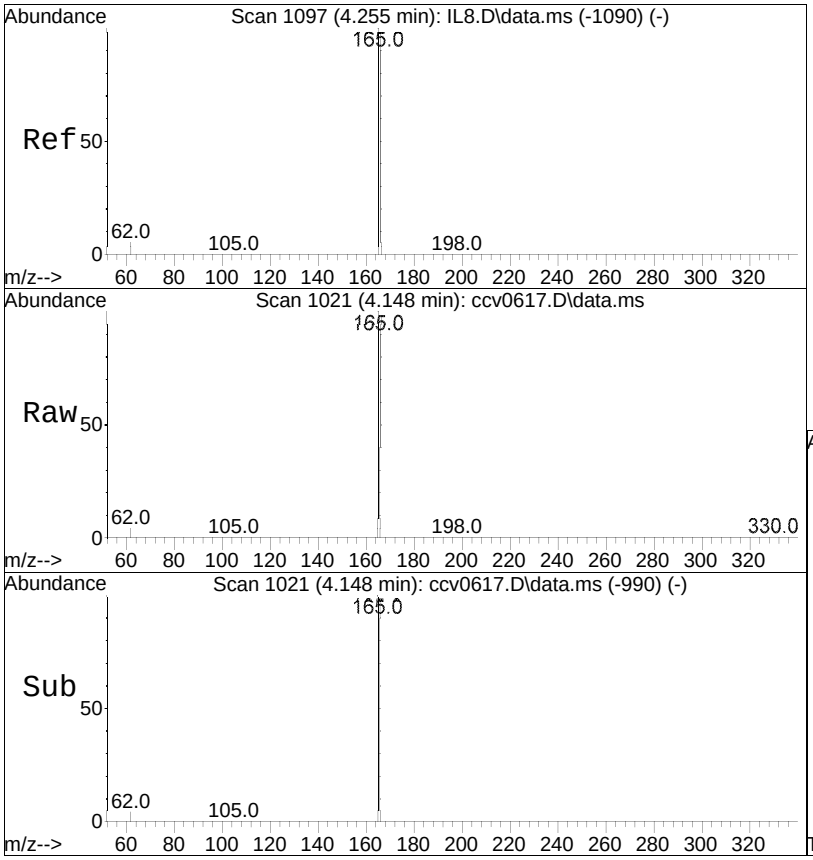


#19
2,4-Dinitrotoluene
Concen: 943.17 ng/ml
RT: 3.949 min Scan# 952
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:165 Resp: 25237

Ion	Ratio	Lower	Upper
165	100		
89	83.5	82.0	123.0
63	68.5	73.0	109.6#

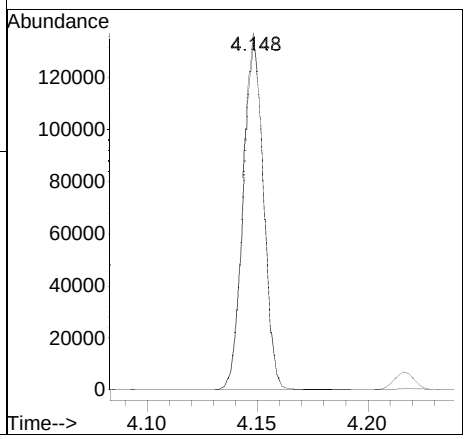


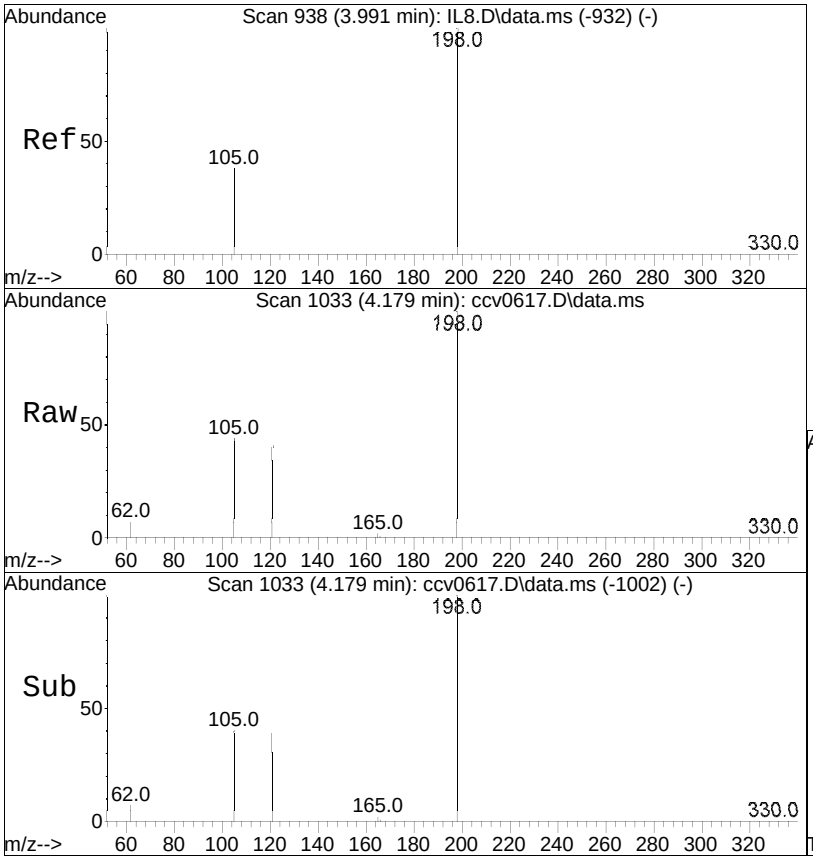


#20
Fluorene
Concen: 961.90 ng/ml
RT: 4.148 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:166 Resp: 85528

Ion	Ratio	Lower	Upper
166	100		
165	102.0	81.9	122.9

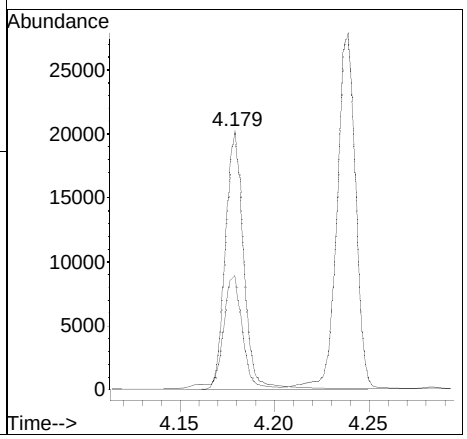


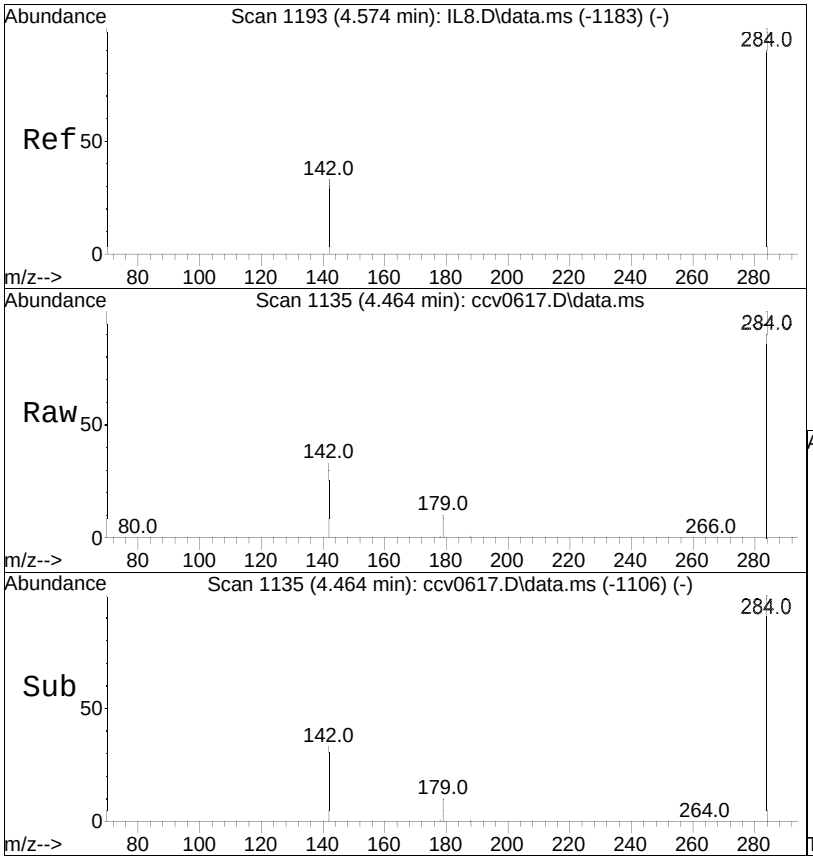


#23
4,6-Dinitro-o-cresol
Concen: 882.94 ng/ml
RT: 4.179 min Scan# 1033
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:198 Resp: 13562

Ion	Ratio	Lower	Upper
198	100		
105	46.2	37.8	56.8

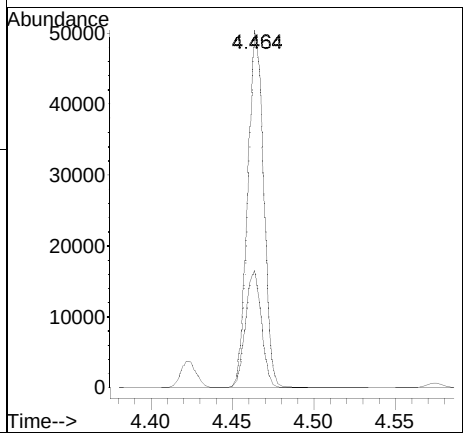


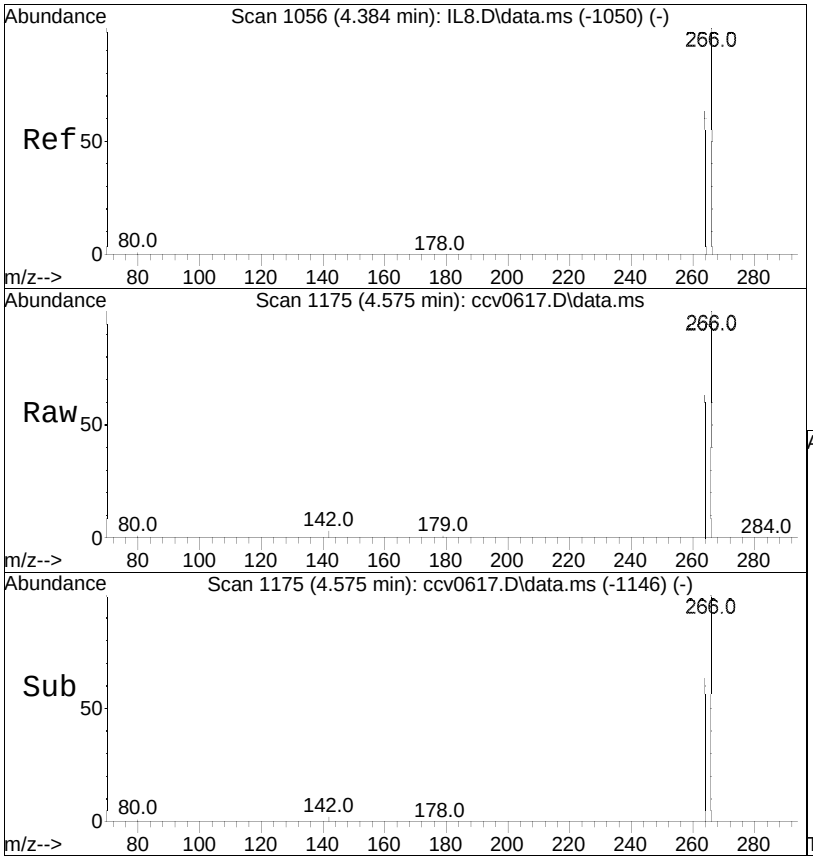


#24
Hexachlorobenzene
Concen: 885.76 ng/ml
RT: 4.464 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:284 Resp: 33517

Ion	Ratio	Lower	Upper
284	100		
142	33.0	26.8	40.2

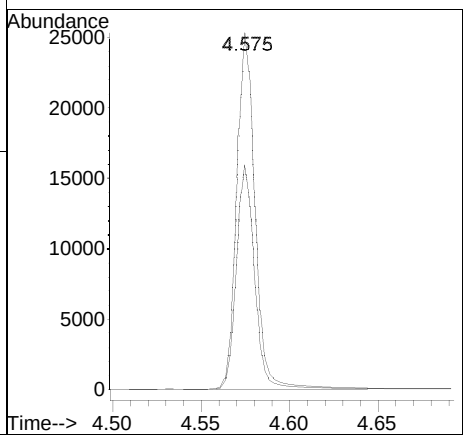


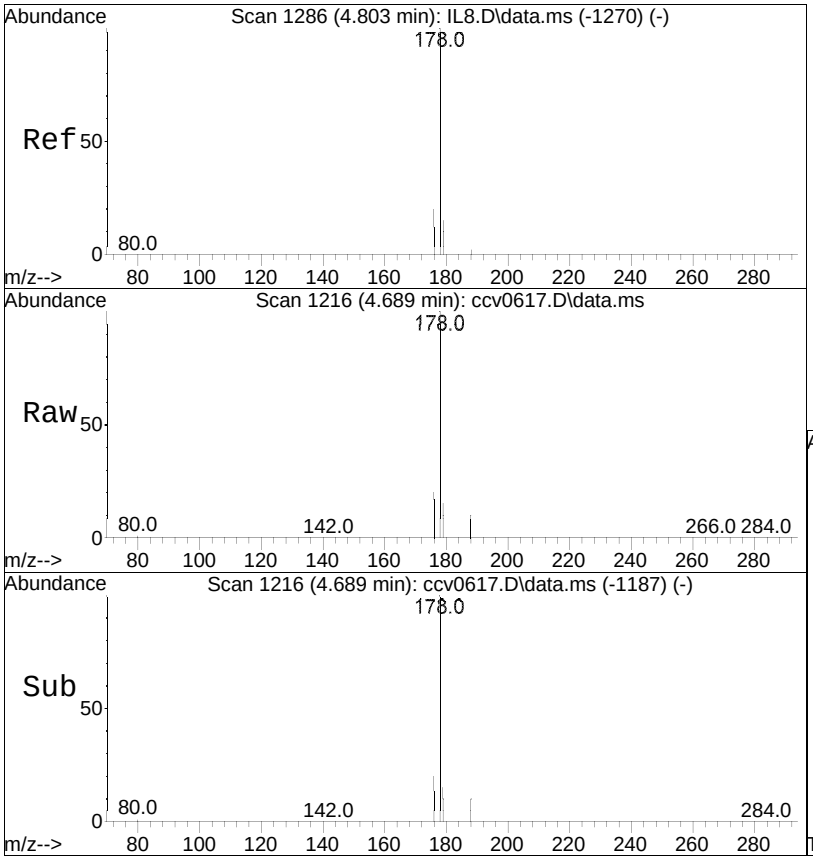


#25
Pentachlorophenol
Concen: 842.94 ng/ml
RT: 4.575 min Scan# 1175
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:266 Resp: 18213

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.2	75.2

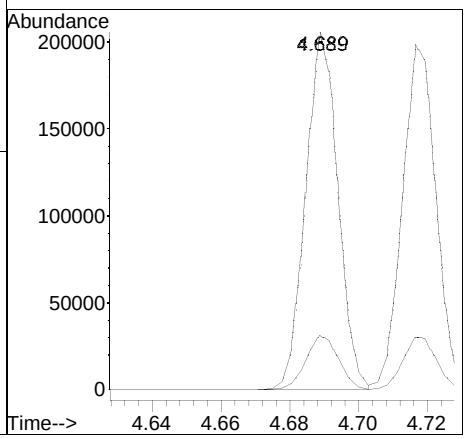


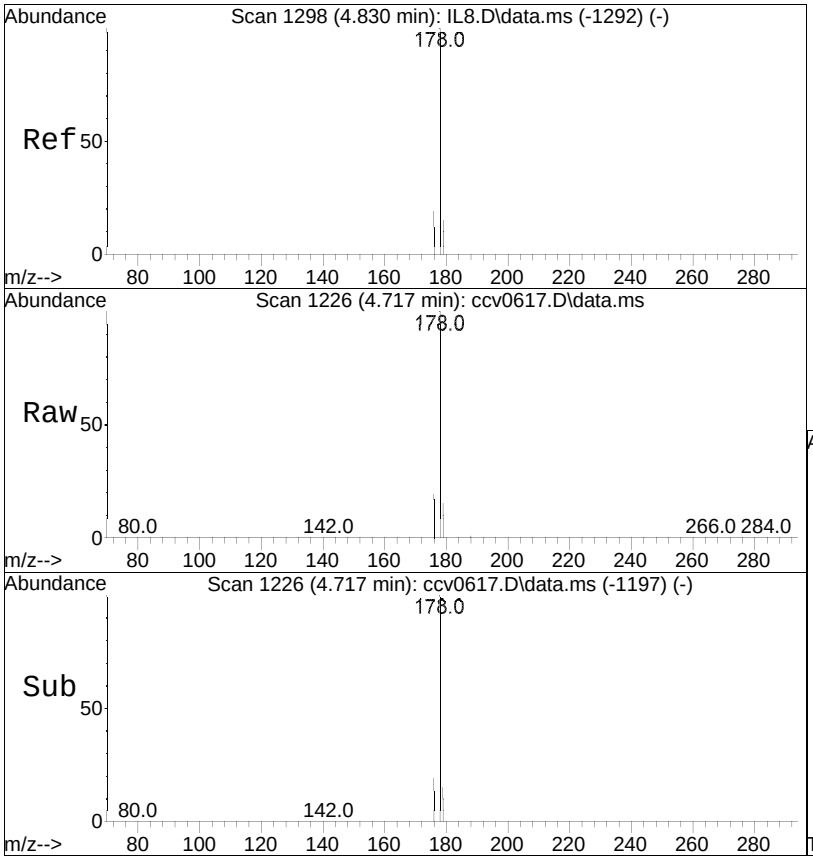


#26
Phenanthrene
Concen: 905.66 ng/ml
RT: 4.689 min Scan# 1216
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:178 Resp: 133734

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

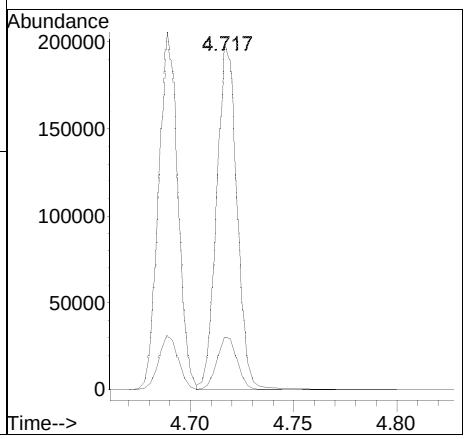


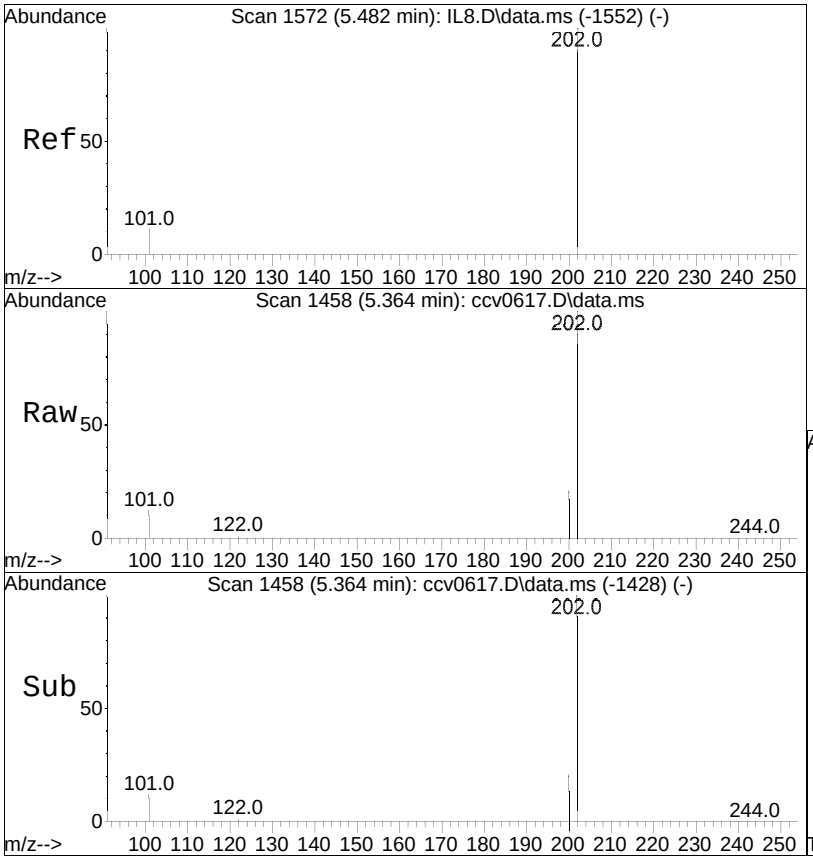


#27
Anthracene
Concen: 930.32 ng/ml
RT: 4.717 min Scan# 1226
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:178 Resp: 135733

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

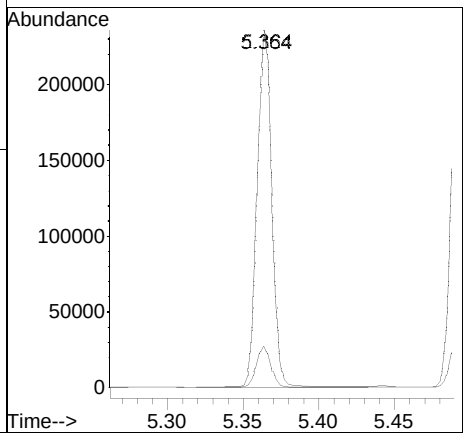


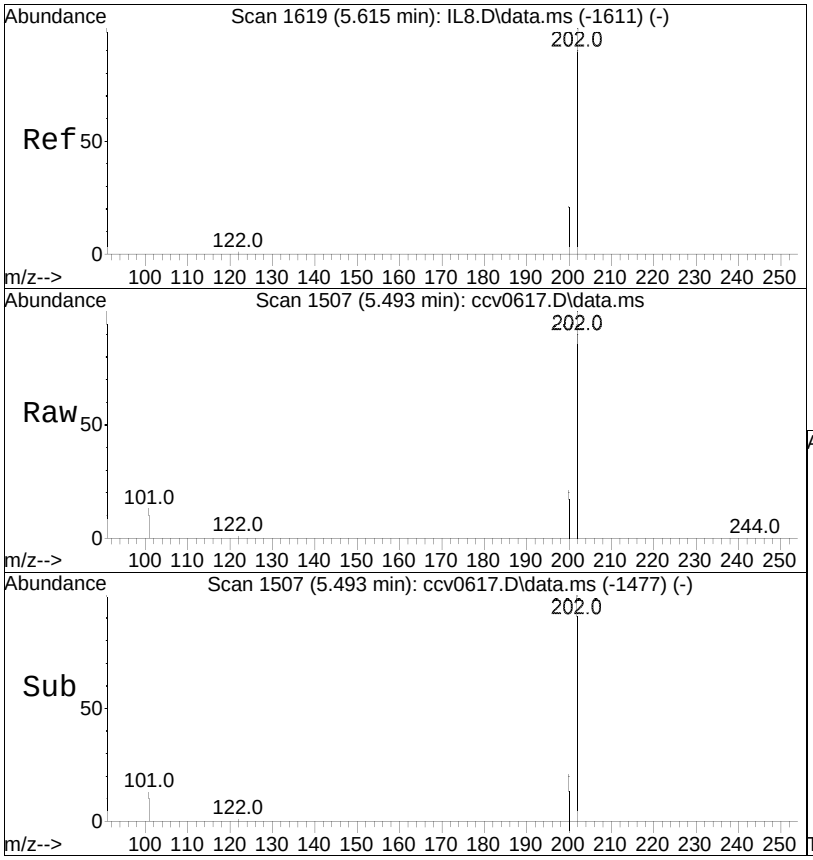


#28
Fluoranthene
Concen: 994.07 ng/ml
RT: 5.364 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:202 Resp: 159199

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.0	13.6

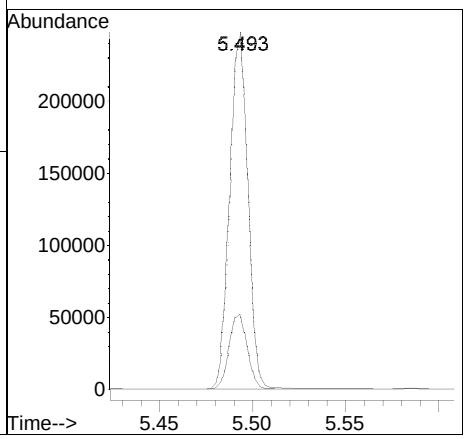


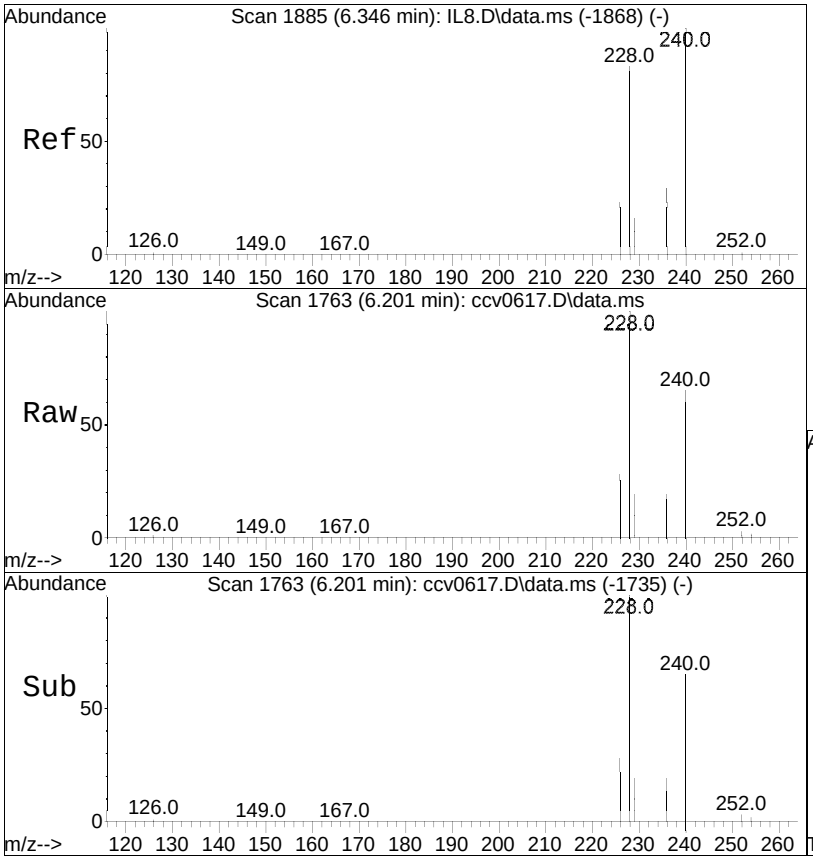


#29
Pyrene
Concen: 1001.14 ng/ml
RT: 5.493 min Scan# 1507
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:202 Resp: 166254

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8

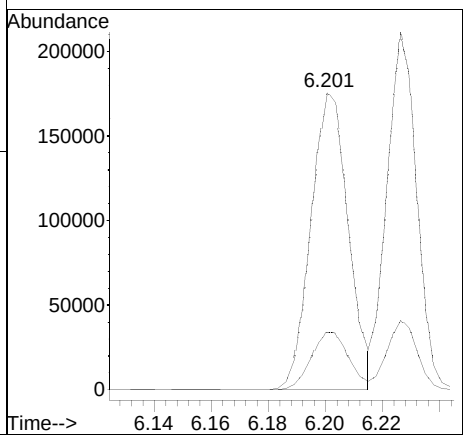


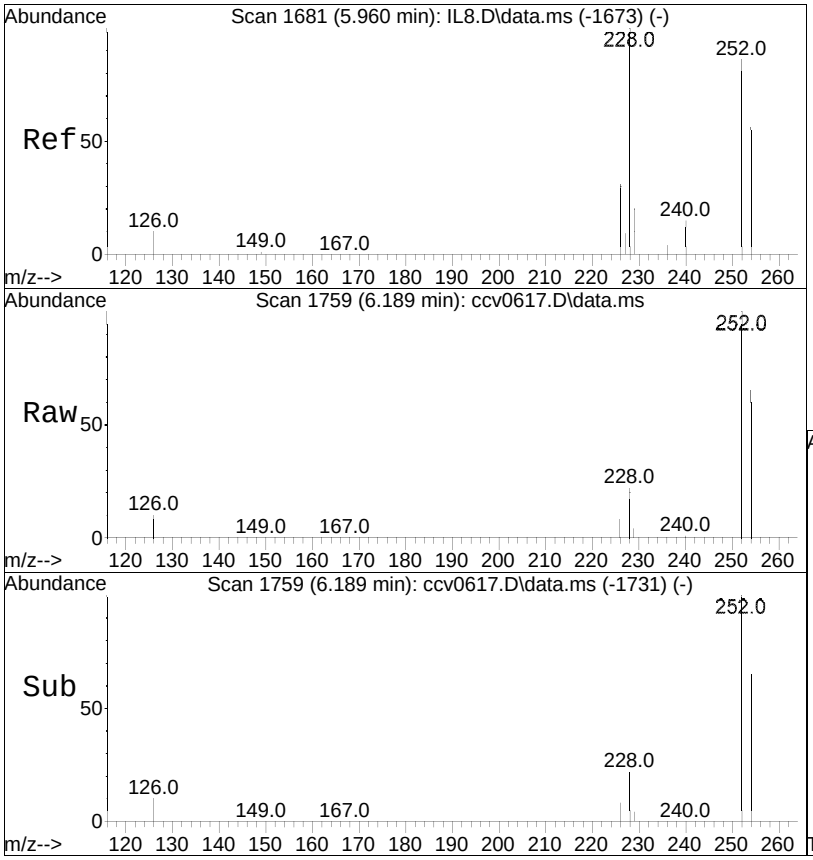


#32
Benzo[a]anthracene
Concen: 866.20 ng/ml
RT: 6.201 min Scan# 1763
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:228 Resp: 159263

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

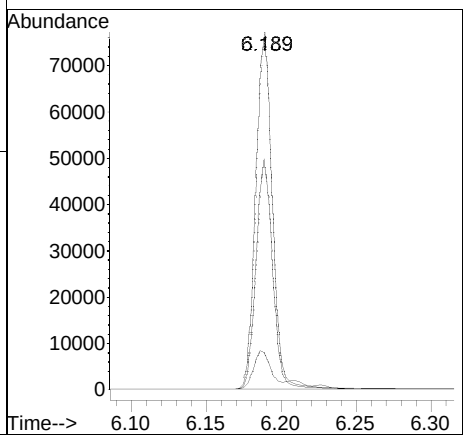


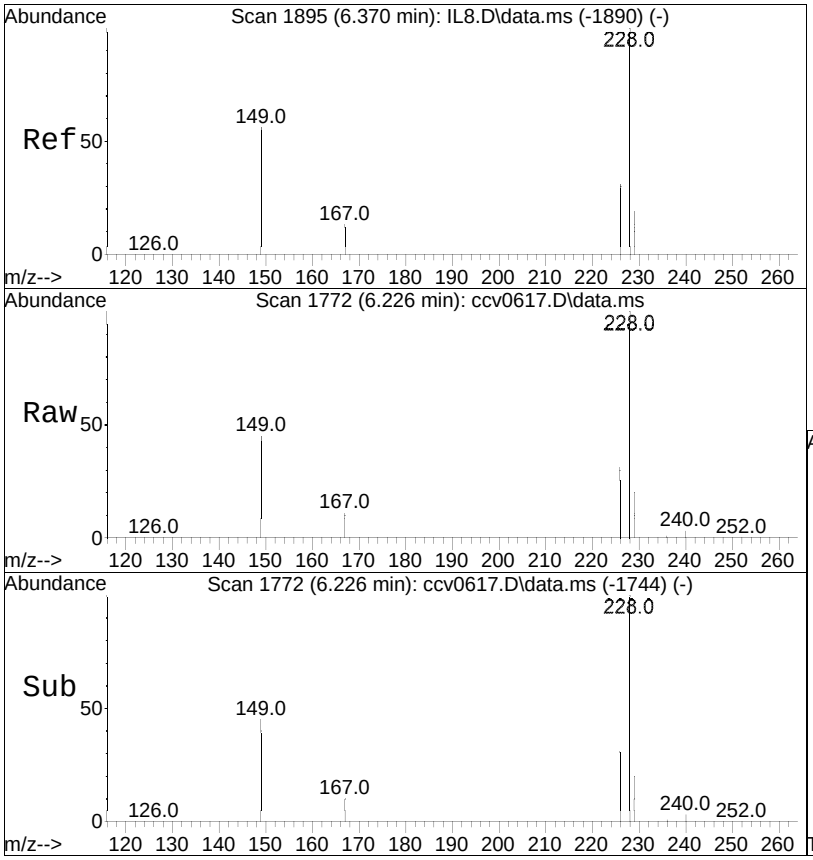


#33
3,3'-Dichlorobenzene
Concen: 915.42 ng/ml
RT: 6.189 min Scan# 1759
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 58379

Ion	Ratio	Lower	Upper
252	100		
126	11.6	9.4	14.2
254	64.5	51.4	77.2

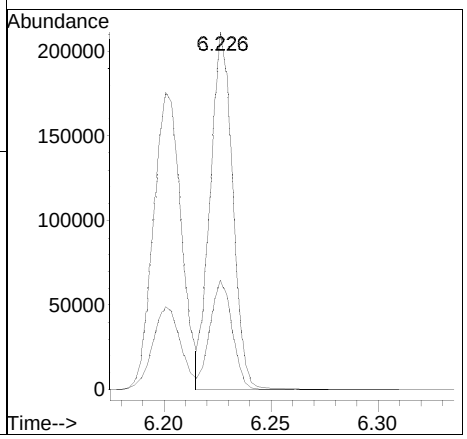


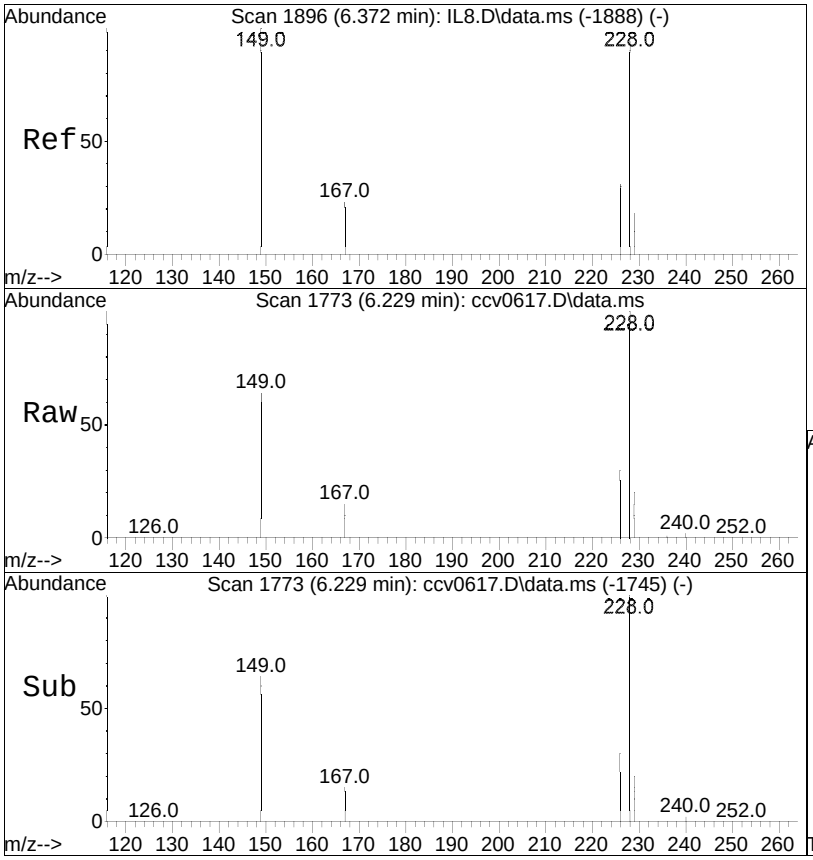


#34
Chrysene
Concen: 882.30 ng/ml
RT: 6.226 min Scan# 1772
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:228 Resp: 153053

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

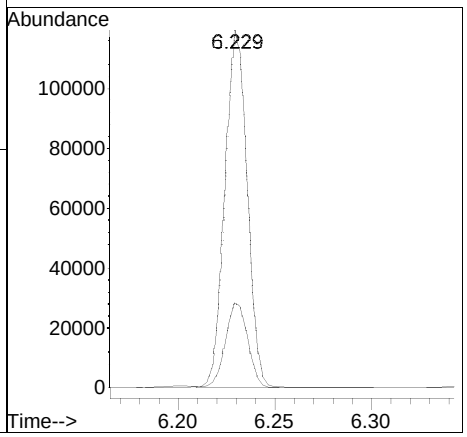


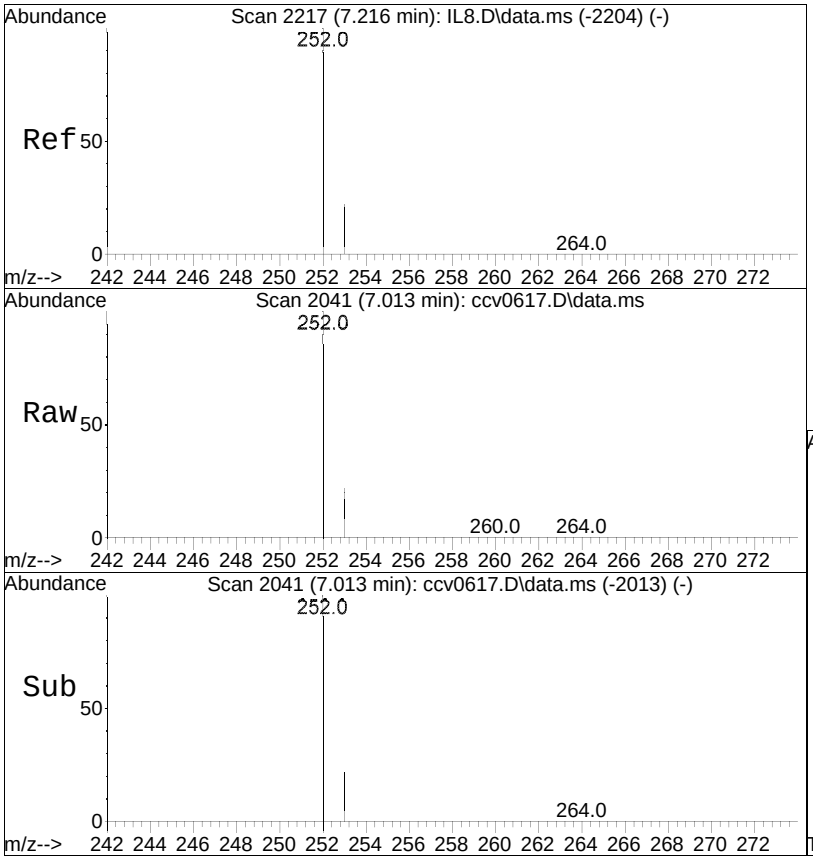


#35
Bis(2-ethylhexyl)phthalate
Concen: 813.73 ng/ml
RT: 6.229 min Scan# 1773
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:149 Resp: 94781

Ion	Ratio	Lower	Upper
149	100		
167	24.2	19.2	28.8

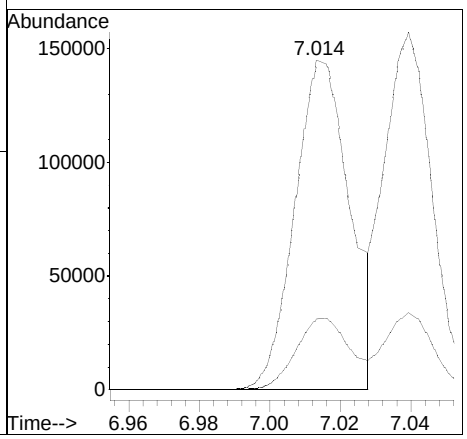


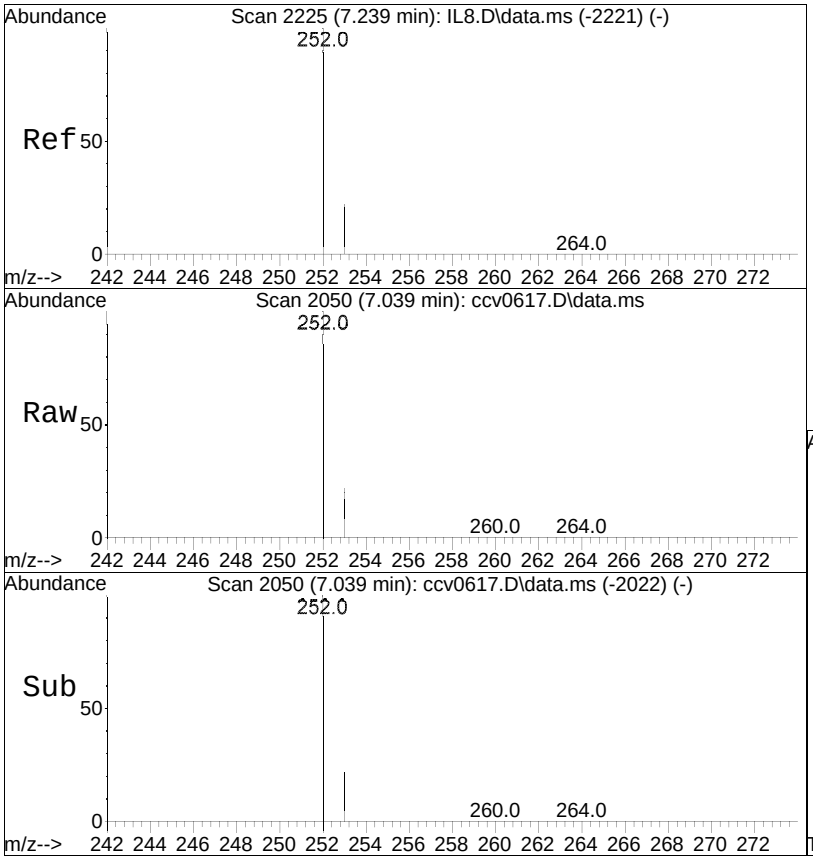


#37
Benzo[b]fluoranthene
Concen: 951.73 ng/ml
RT: 7.013 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 157684

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

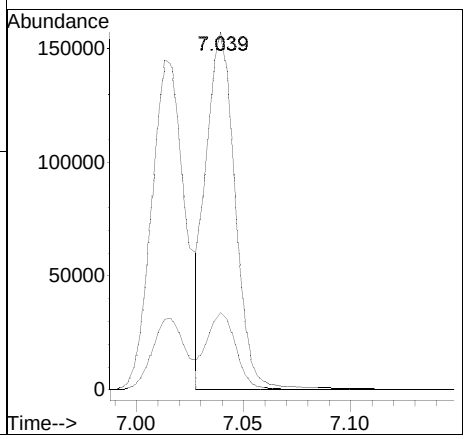


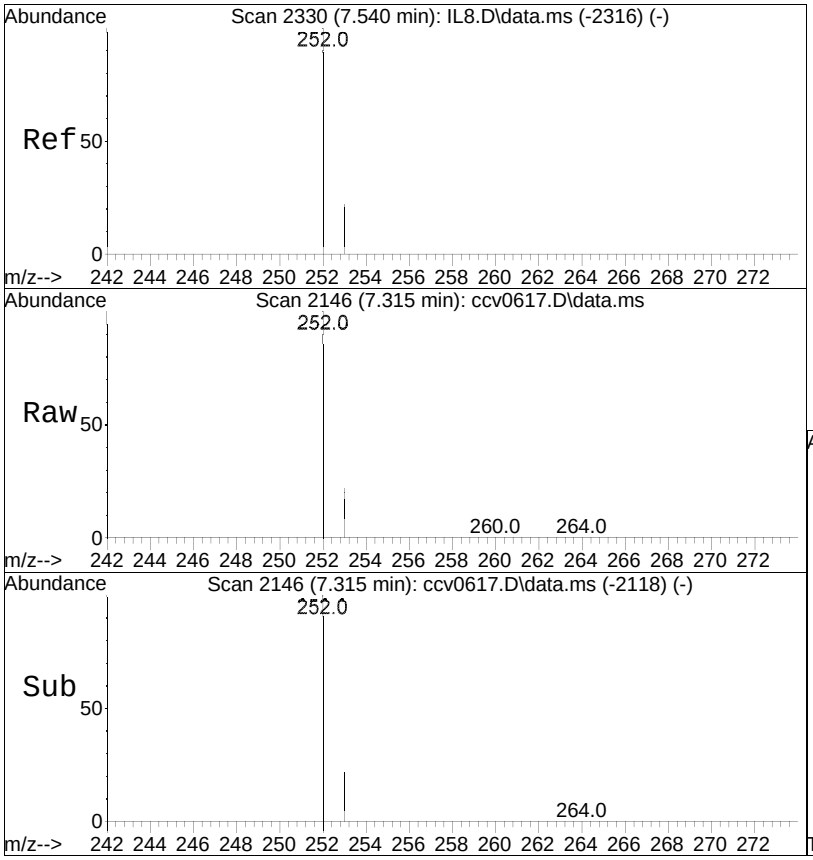


#38
Benzo[k]fluoranthene
Concen: 932.27 ng/ml
RT: 7.039 min Scan# 2050
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 147048

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

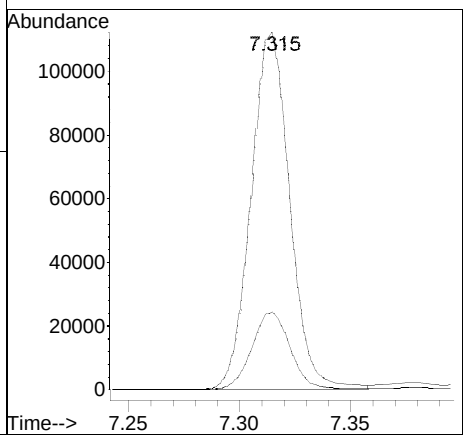


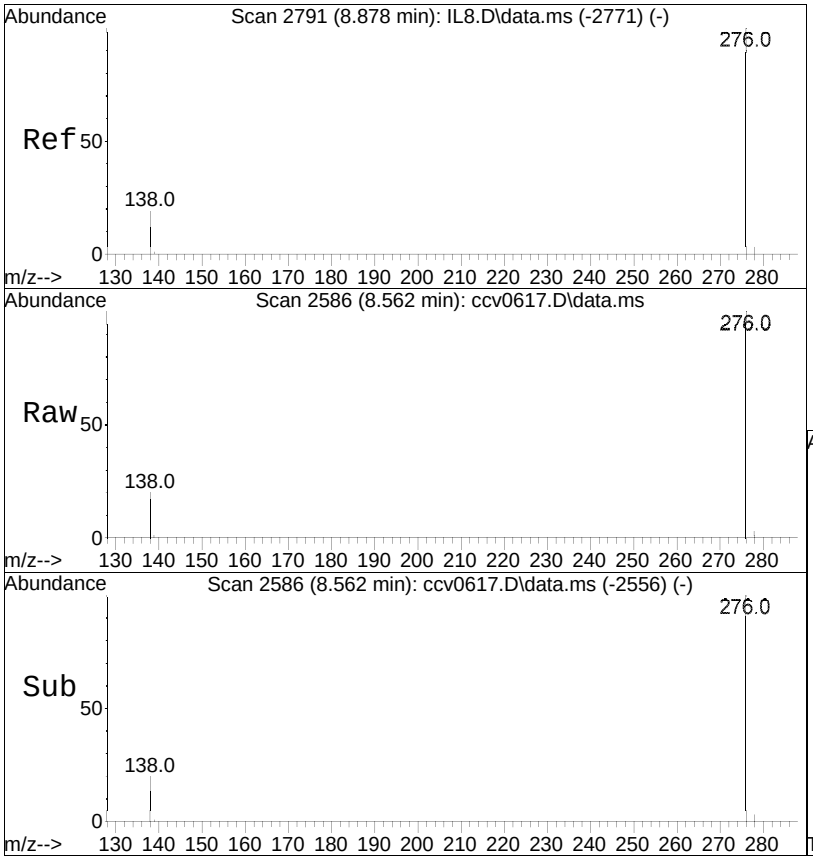


#39
Benzo[a]pyrene
Concen: 983.98 ng/ml
RT: 7.315 min Scan# 2146
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:252 Resp: 134388

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

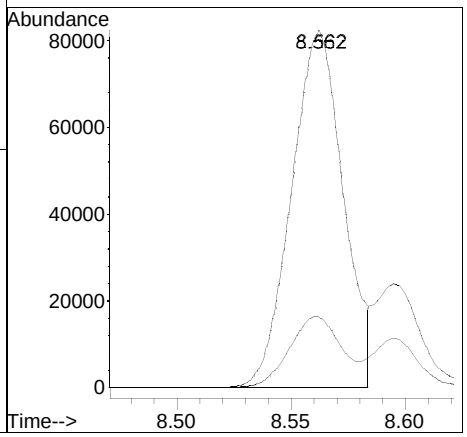


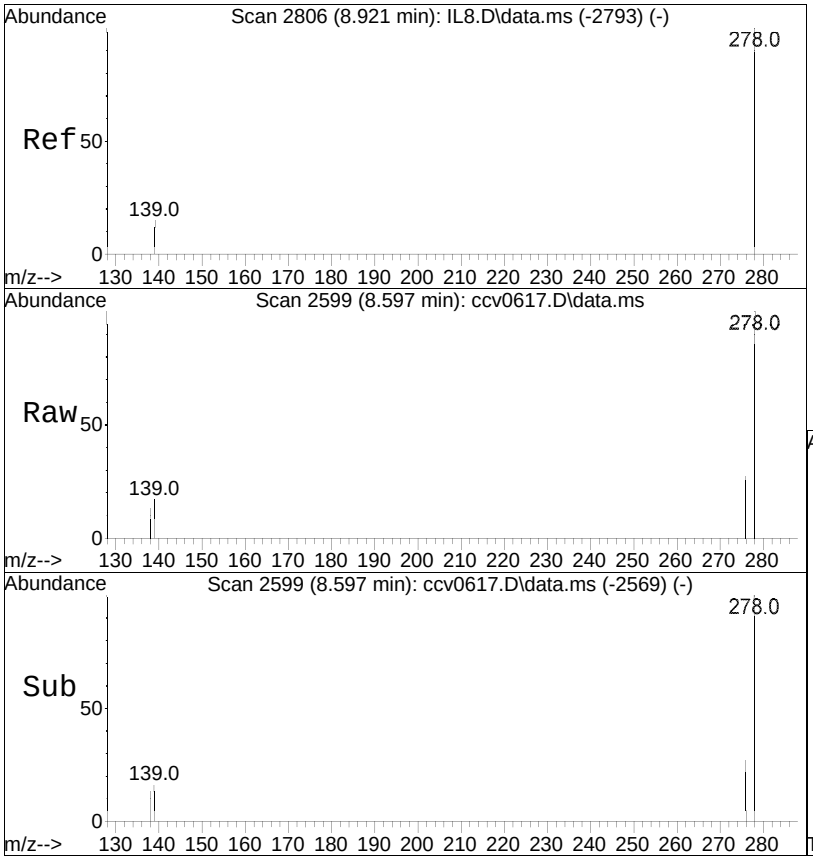


#40
Indeno[1,2,3-cd]pyrene
Concen: 1003.83 ng/ml
RT: 8.562 min Scan# 2586
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:276 Resp: 129117

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

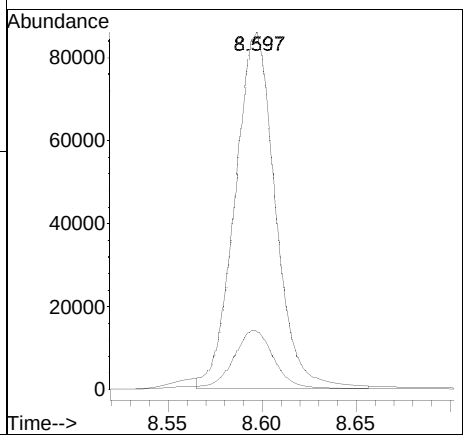


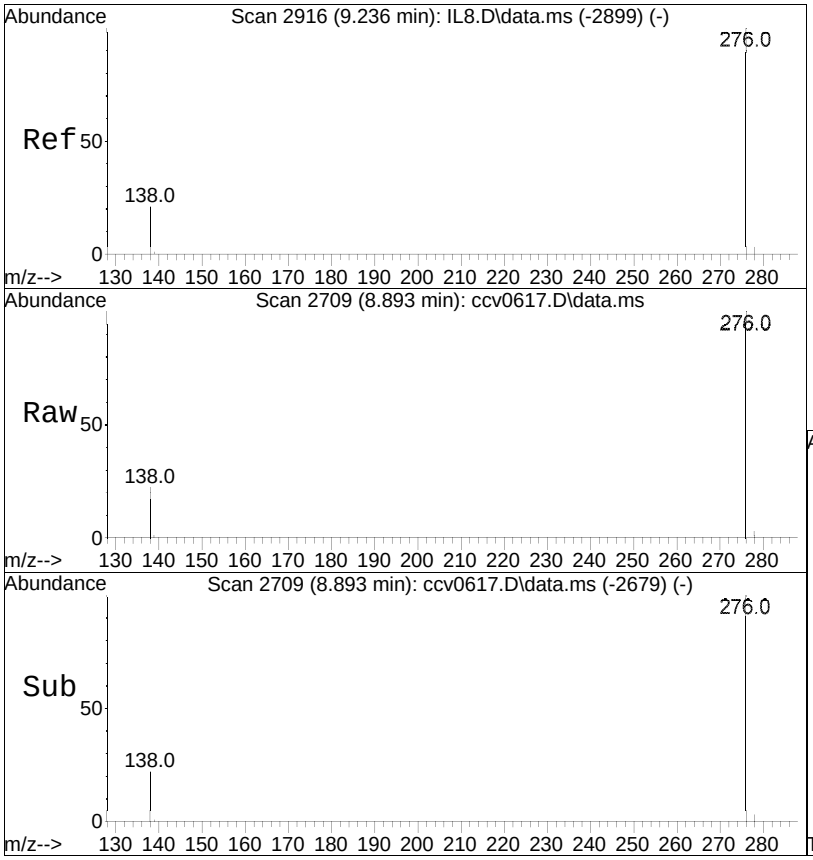


#41
Dibenzo[a,h]anthracene
Concen: 1036.11 ng/ml M6
RT: 8.597 min Scan# 2599
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:278 Resp: 127615

Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.0	21.0

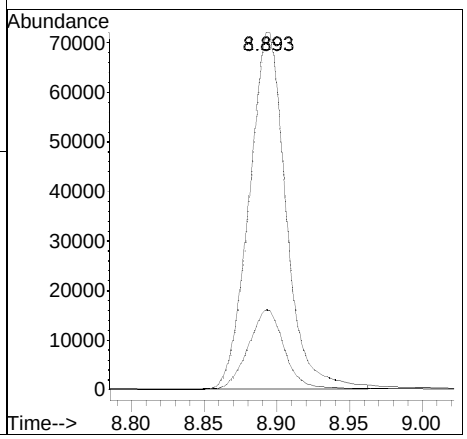




#42
Benzo[g,h,i]perylene
Concen: 960.59 ng/ml
RT: 8.893 min Scan# 2709
Delta R.T. 0.000 min
Lab File: ccv0617.D
Acq: 17 Jun 2024 07:04 am

Tgt Ion:276 Resp: 125703

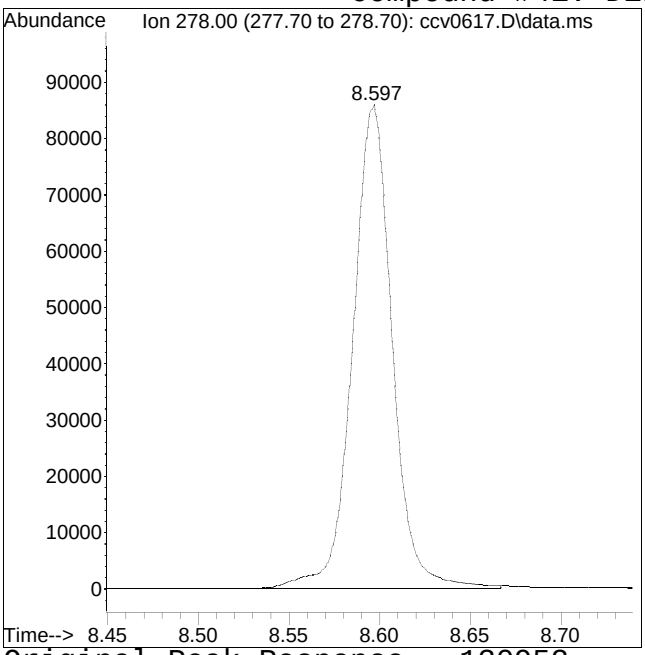
Ion	Ratio	Lower	Upper
276	100		
138	22.2	17.8	26.8



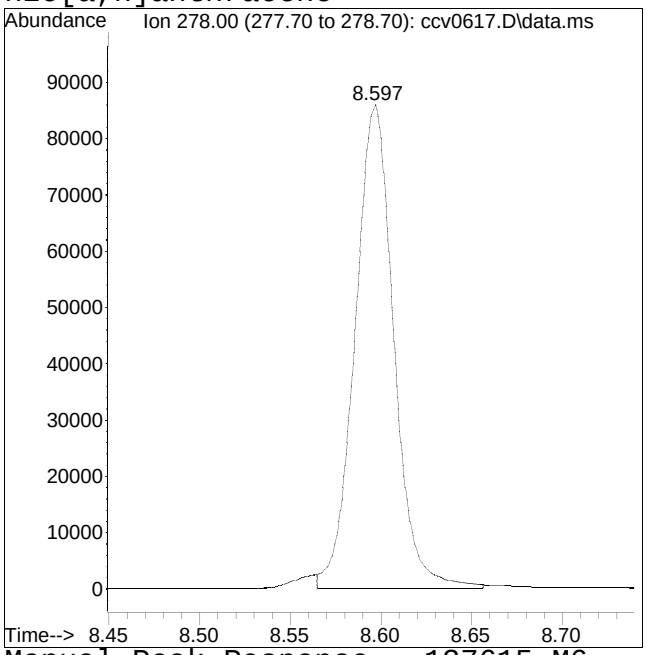
Manual Integration Report

Data Path : I:\8270SIM\sv120\240617RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ccv0617.D Operator : SV120:ah
Date Inj'd : 6/17/2024 7:04 am Instrument : SV120
Sample : WG1935125-3,32,, ICV10475 Quant Date : 6/17/2024 7:21 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 130952



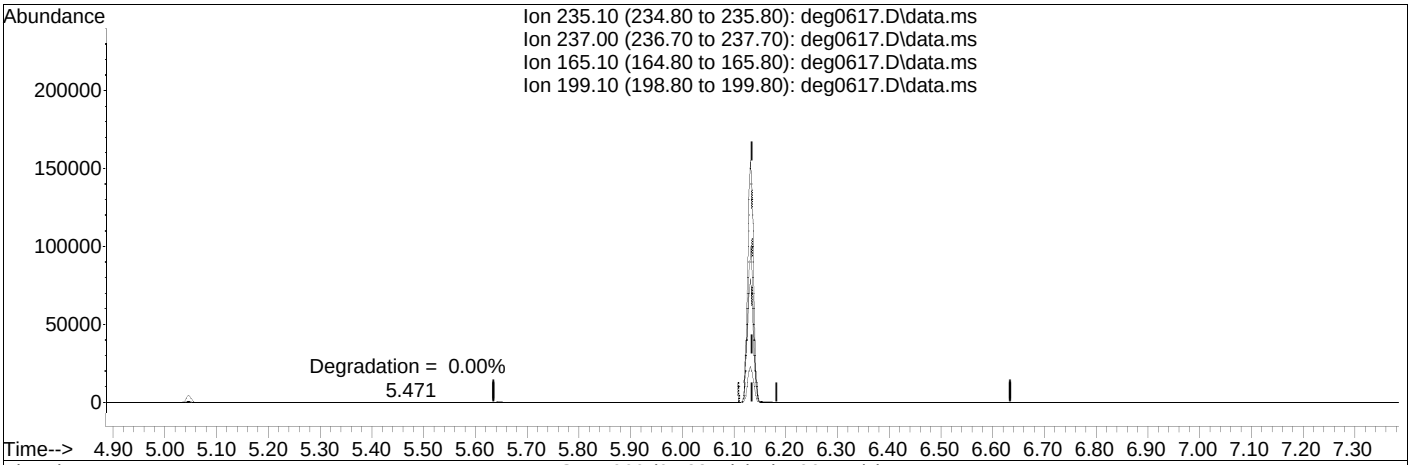
Manual Peak Response = 127615 M6

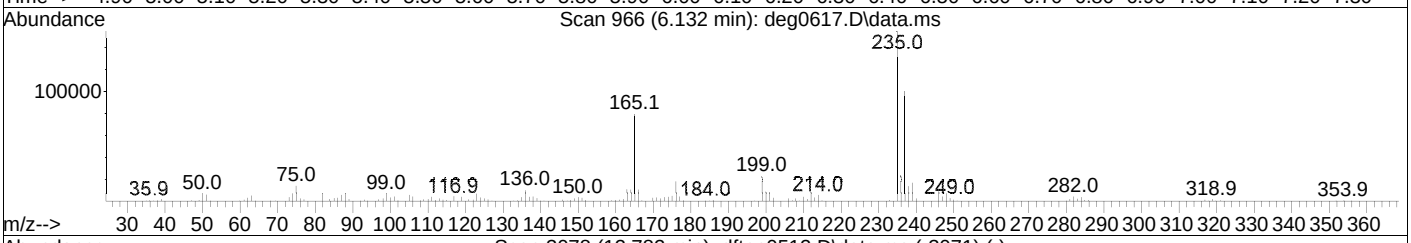
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

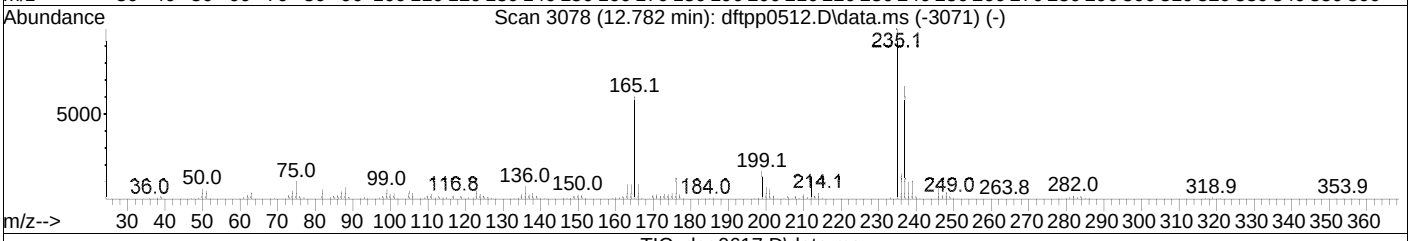
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-2,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(6) ddt (T)

6.132min (-0.003) 19.28

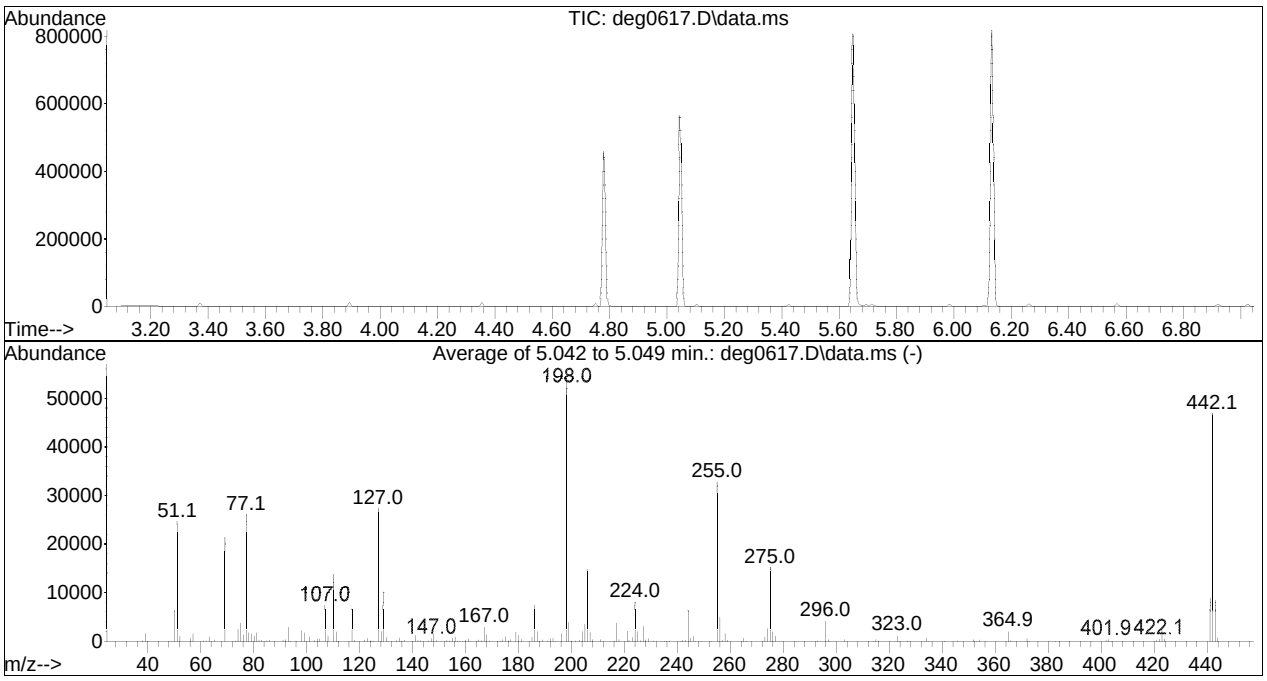
response 117533

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.57
165.10	53.30	51.46
199.10	17.10	14.89

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-1,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240617RVT\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 17 07:21:07 2024



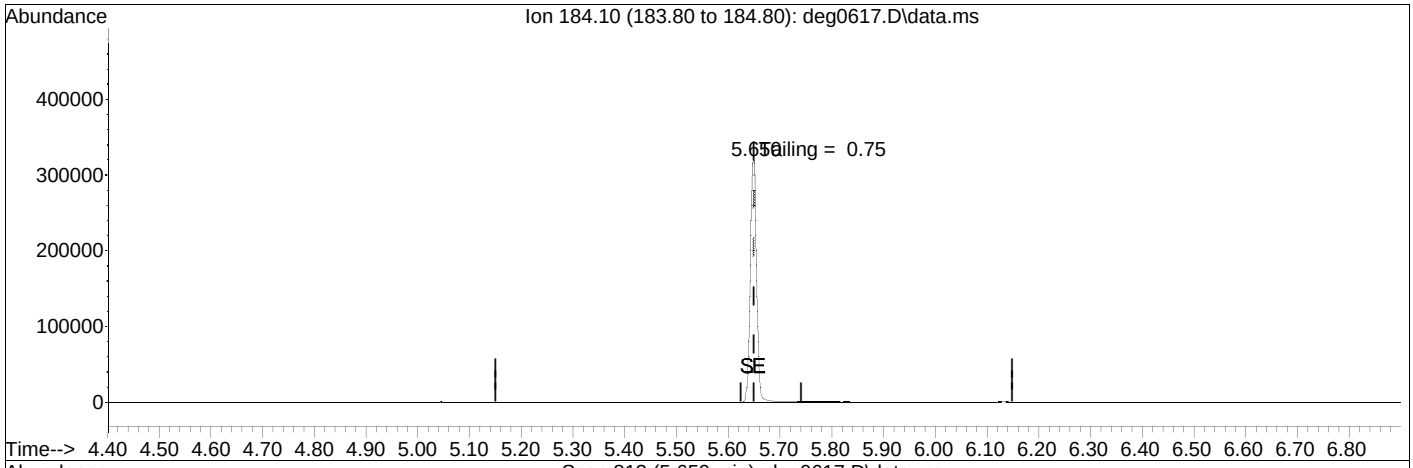
Spectrum Information: Average of 5.042 to 5.049 min.

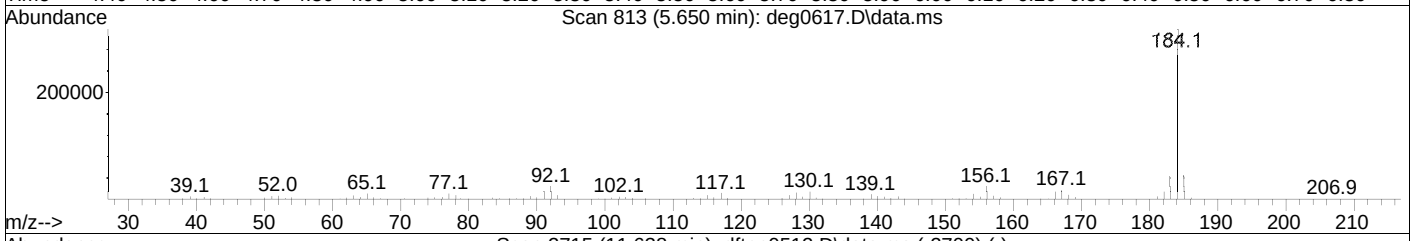
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.2	24528	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	21293	PASS
70	69	0.00	2	0.2	51	PASS
127	198	10	80	50.3	27309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	54248	PASS
199	198	5	9	7.0	3815	PASS
275	198	10	60	27.8	15089	PASS
365	198	1	100	3.8	2049	PASS
441	442	0.01	24	19.1	8970	PASS
442	198	50	100	86.4	46856	PASS
443	442	15	24	18.1	8504	PASS

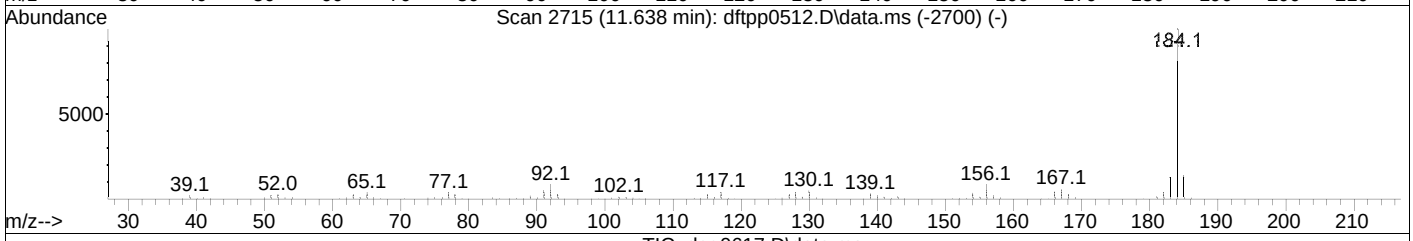
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-4,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(3) benzidine (T)

5.650min (+ 0.000) 25.28

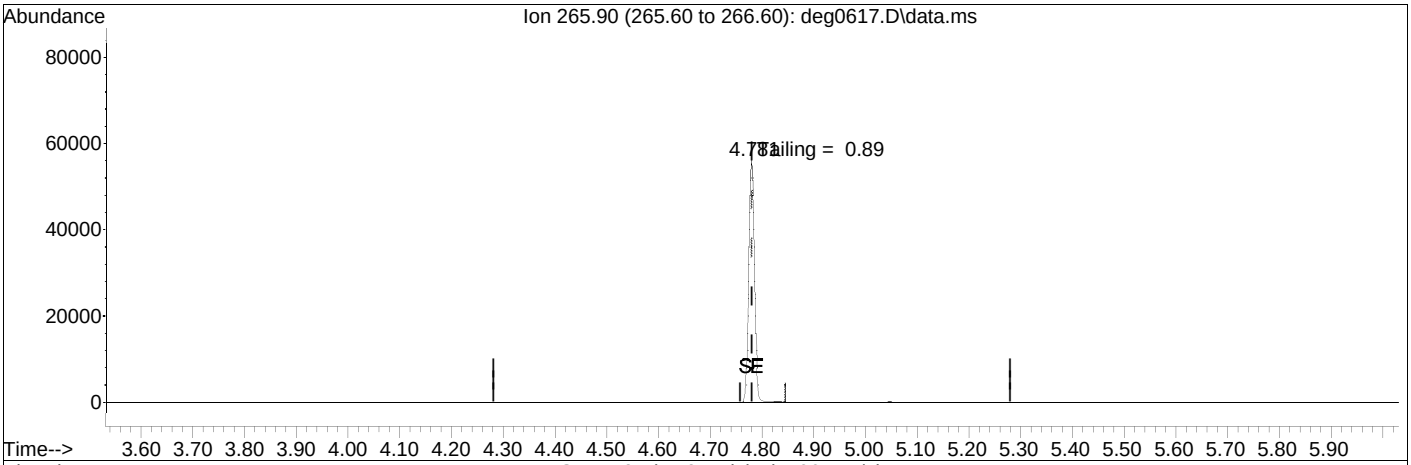
response 257344

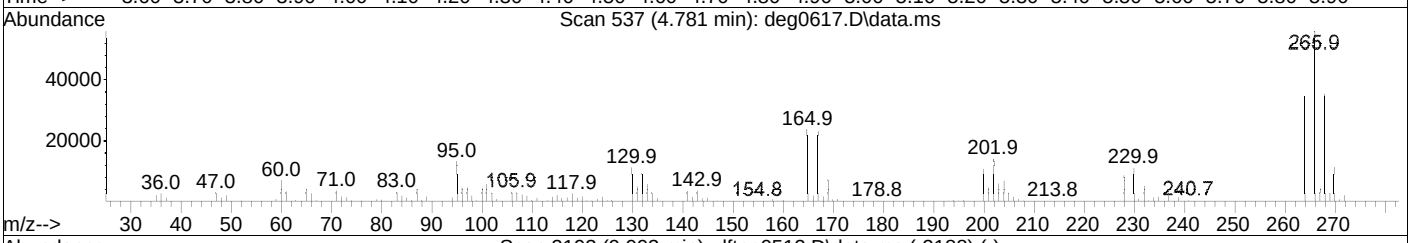
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

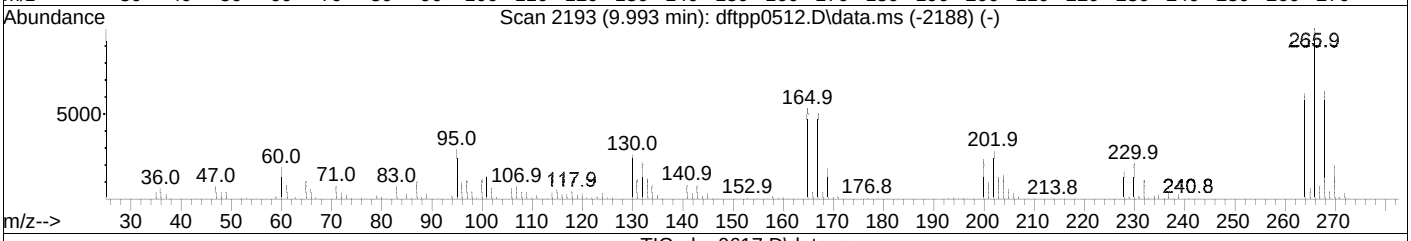
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : deg0617.D
Acq On : 17 Jun 2024 06:47 am
Operator : SV120:ah
Sample : WG1935125-5,32,, dftpp SV120 lot#10809
Misc : WG1935125,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 17 07:01:33 2024
Quant Method : I:\8270SIM\sv120\240617RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0617.D\data.ms

(1) pentachlorophenol (T)

4.781min (-0.000) 19.77

response 41520

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/17/24 07:04		
Lab File ID	: CCV0617	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935125-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	60	0
2-Fluorophenol	1.189	1.093	.05	8.1	20	52	0
Phenol-d6	1.429	1.329	.05	7	20	52	0
Bis(2-chloroethyl)ether	1.263	1.184	.05	6.3	20	56	0
n-nitrosodi-n-propylamine	0.866	0.857	.05	1	20	55	0
Hexachloroethane	0.572	0.533	.05	6.8	20	54	0
Nitrobenzene-d5	1.273	1.266	.05	0.5	20	56	0
Naphthalene-d8	1	1	.05	0	20	62	0
Naphthalene	1.131	1.007	.05	11	20	56	0
Hexachlorobutadiene	0.216	0.201	.05	6.9	20	56	0
2-Methylnaphthalene	0.705	0.683	.05	3.1	20	57	0
1-Methylnaphthalene	0.664	0.627	.05	5.6	20	57	0
2-Fluorobiphenyl	0.851	0.808	.05	5.1	20	58	0
2-Chloronaphthalene	0.721	0.695	.05	3.6	20	58	0
2,6-Dinitrotoluene	1000	974.946	.05	2.5	20	62	0
Acenaphthylene	1.061	1.096	.05	-3.3	20	58	0
Acenaphthene-d10	1	1	.05	0	20	68	0
Acenaphthene	1.372	1.275	.05	7.1	20	62	0
2,4-Dinitrotoluene	1000	943.166	.05	5.7	20	65	0
Fluorene	1.479	1.423	.05	3.8	20	63	0
2,4,6-Tribromophenol	1000	944.525	.05	5.5	20	64	0
Phenanthrene-d10	1	1	.05	0	20	77	0
4,6-Dinitro-o-cresol	1000	882.936	.05	11.7	20	67	0
Hexachlorobenzene	0.288	0.255	.05	11.5	20	66	0
Pentachlorophenol	1000	842.938	.05	15.7	20	66	0
Phenanthrene	1.125	1.019	.05	9.4	20	65	0
Anthracene	1.111	1.034	.05	6.9	20	67	0
Fluoranthene	1.22	1.213	.05	0.6	20	73	0
Pyrene	1.265	1.266	.05	-0.1	20	73	0
4-Terphenyl-d14	0.814	0.802	.05	1.5	20	76	0
Chrysene-d12	1	1	.05	0	20	94	0
Benzo[a]anthracene	1000	866.195	.05	13.4	20	78	0
3,3'-Dichlorobenzene	0.533	0.488	.05	8.4	20	78	0
Chrysene	1.45	1.279	.05	11.8	20	80	0
Bis(2-ethylhexyl)phthalate	1000	813.73	.05	18.6	20	81	0
Perylene-d12	1	1	.05	0	20	102	0
Benzo[b]fluoranthene	1.323	1.259	.05	4.8	20	86	0
Benzo[k]fluoranthene	1.259	1.174	.05	6.8	20	85	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	87	0
Indeno[1,2,3-cd]pyrene	1.027	1.031	.05	-0.4	20	94	0
Dibenzo[a,h]anthracene	0.983	1.019	.05	-3.7	20	93	0
Benzo[g,h,i]perylene	1.045	1.003	.05	4	20	91	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/18/24 07:13		
Lab File ID	: CCV0618	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935718-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	58	0
2-Fluorophenol	1.189	1.097	.05	7.7	20	50	0
Phenol-d6	1.429	1.327	.05	7.1	20	50	0
Bis(2-chloroethyl)ether	1.263	1.182	.05	6.4	20	53	0
n-nitrosodi-n-propylamine	0.866	0.837	.05	3.3	20	51	0
Hexachloroethane	0.572	0.528	.05	7.7	20	51	0
Nitrobenzene-d5	1.273	1.237	.05	2.8	20	52	0
Naphthalene-d8	1	1	.05	0	20	58	0
Naphthalene	1.131	1.001	.05	11.5	20	52	0
Hexachlorobutadiene	0.216	0.203	.05	6	20	53	0
2-Methylnaphthalene	0.705	0.675	.05	4.3	20	53	0
1-Methylnaphthalene	0.664	0.621	.05	6.5	20	53	0
2-Fluorobiphenyl	0.851	0.8	.05	6	20	54	0
2-Chloronaphthalene	0.721	0.676	.05	6.2	20	53	0
2,6-Dinitrotoluene	1000	928.032	.05	7.2	20	56	0
Acenaphthylene	1.061	1.057	.05	0.4	20	52	0
Acenaphthene-d10	1	1	.05	0	20	62	0
Acenaphthene	1.372	1.26	.05	8.2	20	56	0
2,4-Dinitrotoluene	1000	899.121	.05	10.1	20	56	0
Fluorene	1.479	1.376	.05	7	20	56	0
2,4,6-Tribromophenol	1000	928.277	.05	7.2	20	58	0
Phenanthrene-d10	1	1	.05	0	20	68	0
4,6-Dinitro-o-cresol	1000	879.713	.05	12	20	60	0
Hexachlorobenzene	0.288	0.256	.05	11.1	20	59	0
Pentachlorophenol	1000	851.412	.05	14.9	20	60	0
Phenanthrene	1.125	1.006	.05	10.6	20	57	0
Anthracene	1.111	1.013	.05	8.8	20	59	0
Fluoranthene	1.22	1.18	.05	3.3	20	63	0
Pyrene	1.265	1.24	.05	2	20	64	0
4-Terphenyl-d14	0.814	0.792	.05	2.7	20	67	0
Chrysene-d12	1	1	.05	0	20	84	0
Benzo[a]anthracene	1000	841.882	.05	15.8	20	68	0
3,3'-Dichlorobenzene	0.533	0.485	.05	9	20	69	0
Chrysene	1.45	1.279	.05	11.8	20	71	0
Bis(2-ethylhexyl)phthalate	1000	808.053	.05	19.2	20	72	0
Perylene-d12	1	1	.05	0	20	93	0
Benzo[b]fluoranthene	1.323	1.205	.05	8.9	20	76	0
Benzo[k]fluoranthene	1.259	1.187	.05	5.7	20	79	0
Benzo[a]pyrene	1.09	1.06	.05	2.8	20	79	0
Indeno[1,2,3-cd]pyrene	1.027	1.073	.05	-4.5	20	90	0
Dibenzo[a,h]anthracene	0.983	1.055	.05	-7.3	20	88	0
Benzo[g,h,i]perylene	1.045	1.033	.05	1.1	20	86	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : ccv0618.D
Acq On : 18 Jun 2024 07:13 am
Operator : SV120:jjw
Sample : WG1935718-3,32,, ICV10475 0617
Misc : WG1935718,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 18 07:27:33 2024
Quant Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:12 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	58	0.00
2	s	2-Fluorophenol	1.189	1.097	7.7	50	0.00
3	s	Phenol-d6	1.429	1.327	7.1	50#	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.182	6.4	53	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.837	3.3	51	0.00
6	t	Hexachloroethane	0.572	0.528	7.7	51	0.00
7	s	Nitrobenzene-d5	1.273	1.237	2.8	52	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	58	0.00
9	t	Naphthalene	1.131	1.001	11.5	52	0.00
10	t	Hexachlorobutadiene	0.216	0.203	6.0	53	0.00
11	t	2-Methylnaphthalene	0.705	0.675	4.3	53	0.00
12	t	1-Methylnaphthalene	0.664	0.621	6.5	53	0.00
13	s	2-Fluorobiphenyl	0.851	0.800	6.0	54	0.00
14	t	2-Chloronaphthalene	0.721	0.676	6.2	53	0.00
15	t	2,6-Dinitrotoluene	*1000.000	928.032	7.2	56	0.00
16	t	Acenaphthylene	1.061	1.057	0.4	52	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	62	0.00
18	t	Acenaphthene	1.372	1.260	8.2	56	0.00
19	t	2,4-Dinitrotoluene	*1000.000	899.121	10.1	56	0.00
20	t	Fluorene	1.479	1.376	7.0	56	0.00
21	s	2,4,6-Tribromophenol	*1000.000	928.277	7.2	58	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	68	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	879.713	12.0	60	0.00
24	t	Hexachlorobenzene	0.288	0.256	11.1	59	0.00
25	t	Pentachlorophenol	*1000.000	851.412	14.9	60	0.00
26	t	Phenanthrene	1.125	1.006	10.6	57	0.00
27	t	Anthracene	1.111	1.013	8.8	59	0.00
28	t	Fluoranthene	1.220	1.180	3.3	63	0.00
29	t	Pyrene	1.265	1.240	2.0	64	0.00
30	s	4-Terphenyl-d14	0.814	0.792	2.7	67	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	84	0.00
32	t	Benzo[a]anthracene	*1000.000	841.882	15.8	68	0.00
33	t	3,3'-Dichlorobenzene	0.533	0.485	9.0	69	0.00
34	t	Chrysene	1.450	1.279	11.8	71	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	808.053	19.2	72	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : ccv0618.D
Acq On : 18 Jun 2024 07:13 am
Operator : SV120:jjw
Sample : WG1935718-3,32,, ICV10475 0617
Misc : WG1935718,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 18 07:27:33 2024
Quant Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:12 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	93	0.00
37	t	Benzo[b]fluoranthene	1.323	1.205	8.9	76	0.00
38	t	Benzo[k]fluoranthene	1.259	1.187	5.7	79	0.00
39	t	Benzo[a]pyrene	1.090	1.060	2.8	79	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.027	1.073	-4.5	90	0.00
41	t	Dibenzo[a,h]anthracene	0.983	1.055	-7.3	88	0.00
42	t	Benzo[g,h,i]perylene	1.045	1.033	1.1	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : ccv0618.D
Acq On : 18 Jun 2024 07:13 am
Operator : SV120:jjw
Sample : WG1935718-3,32,, ICV10475 0617
Misc : WG1935718,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 18 07:27:33 2024
Quant Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:12 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.210	152	104092	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.869	136	383025	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.842	164	220388	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.679	188	468722	4000.000	ng/ml	0.00
31) Chrysene-d12	6.211	240	427549	4000.000	ng/ml	0.00
36) Perylene-d12	7.379	264	460182	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.632	112	28554	922.962	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.15%			
3) Phenol-d6	2.026	99	34535	928.656	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.43%			
7) Nitrobenzene-d5	2.488	82	32182	971.285	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 97.13%			
13) 2-Fluorobiphenyl	3.465	172	76597	940.498	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.05%			
21) 2,4,6-Tribromophenol	4.285	330	13887	928.277	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.41%			
30) 4-Terphenyl-d14	5.587	244	92834	973.414	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.67%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.076	93	30762	935.933	ng/ml	98
5) n-nitrosodi-n-propylamine	2.410	70	21782	966.437	ng/ml	100
6) Hexachloroethane	2.465	117	13735	922.278	ng/ml	99
9) Naphthalene	2.879	128	95828	885.111	ng/ml	99
10) Hexachlorobutadiene	2.952	225	19420	937.684	ng/ml	100
11) 2-Methylnaphthalene	3.258	142	64662	957.276	ng/ml	99
12) 1-Methylnaphthalene	3.313	142	59439	934.911	ng/ml	99
14) 2-Chloronaphthalene	3.530	162	64763	938.070	ng/ml	100
15) 2,6-Dinitrotoluene	3.725	165	15994	928.032	ng/ml	98
16) Acenaphthylene	3.761	152	101186	995.879	ng/ml	100
18) Acenaphthene	3.858	153	69436	918.250	ng/ml	100
19) 2,4-Dinitrotoluene	3.950	165	22031	899.121	ng/ml#	80
20) Fluorene	4.149	166	75832	930.334	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.181	198	12058	879.713	ng/ml	98
24) Hexachlorobenzene	4.465	284	29969	887.374	ng/ml	99
25) Pentachlorophenol	4.576	266	16428	851.412	ng/ml	100
26) Phenanthrene	4.690	178	117904	894.613	ng/ml	100
27) Anthracene	4.718	178	118716	911.671	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : ccv0618.D
Acq On : 18 Jun 2024 07:13 am
Operator : SV120:jjw
Sample : WG1935718-3,32,, ICV10475 0617
Misc : WG1935718,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 18 07:27:33 2024
Quant Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:12 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.365	202	138223	967.034	ng/ml	99
29) Pyrene	5.495	202	145361	980.744	ng/ml	100
32) Benzo[a]anthracene	6.202	228	138325	841.882	ng/ml	100
33) 3,3'-Dichlorobenzene	6.190	252	51853	910.113	ng/ml	100
34) Chrysene	6.225	228	136710	882.130	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.228	149	84064	808.053	ng/ml	100
37) Benzo[b]fluoranthene	7.015	252	138628	911.048	ng/ml	100
38) Benzo[k]fluoranthene	7.038	252	136542	942.562	ng/ml	100
39) Benzo[a]pyrene	7.313	252	121899	971.827	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.561	276	123394	1044.556	ng/ml	98
41) Dibenzo[a,h]anthracene	8.596	278	121381M6	1073.048	ng/ml	
42) Benzo[g,h,i]perylene	8.894	276	118828	988.726	ng/ml	100

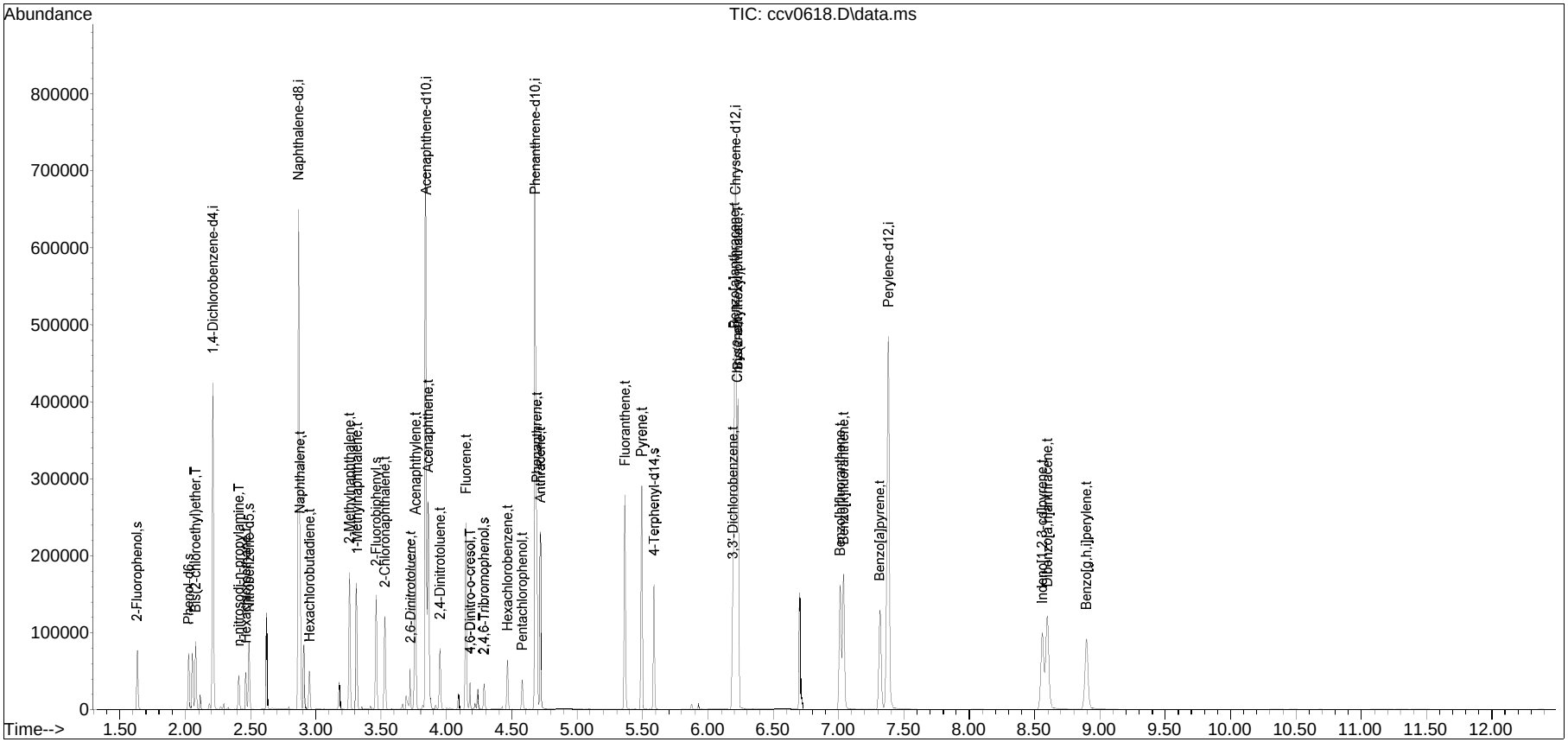
(#) = qualifier out of range (m) = manual integration (+) = signals summed

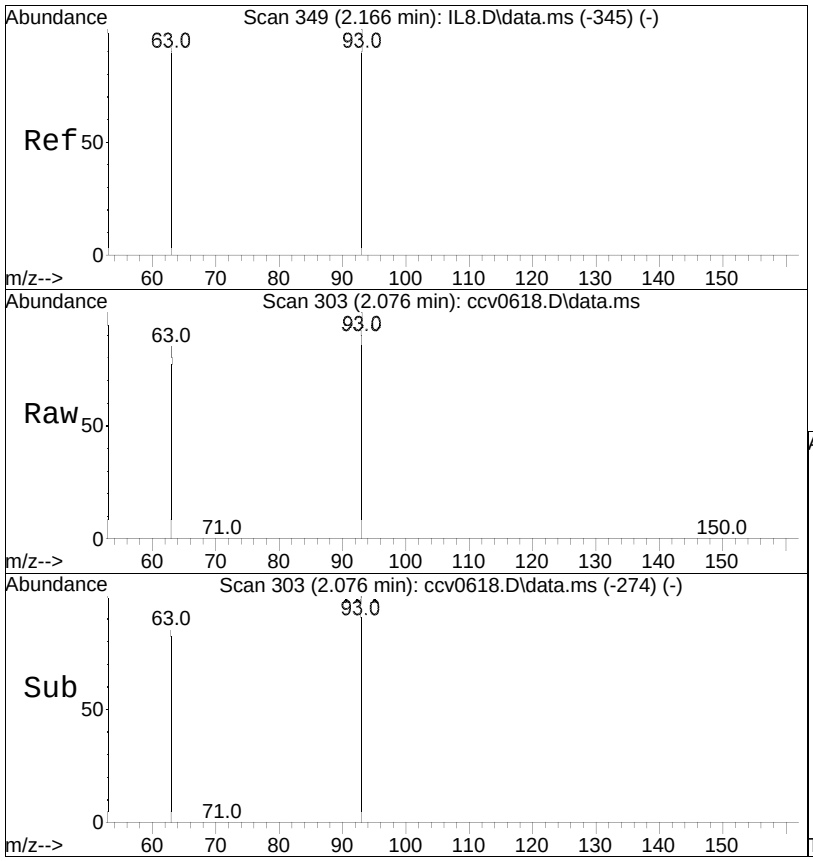
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : ccv0618.D
Acq On : 18 Jun 2024 07:13 am
Operator : SV120:jjw
Sample : WG1935718-3,32,, ICV10475 0617
Misc : WG1935718,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 18 07:27:33 2024
Quant Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:12 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

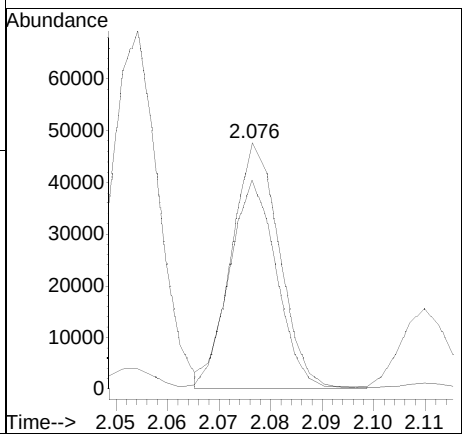


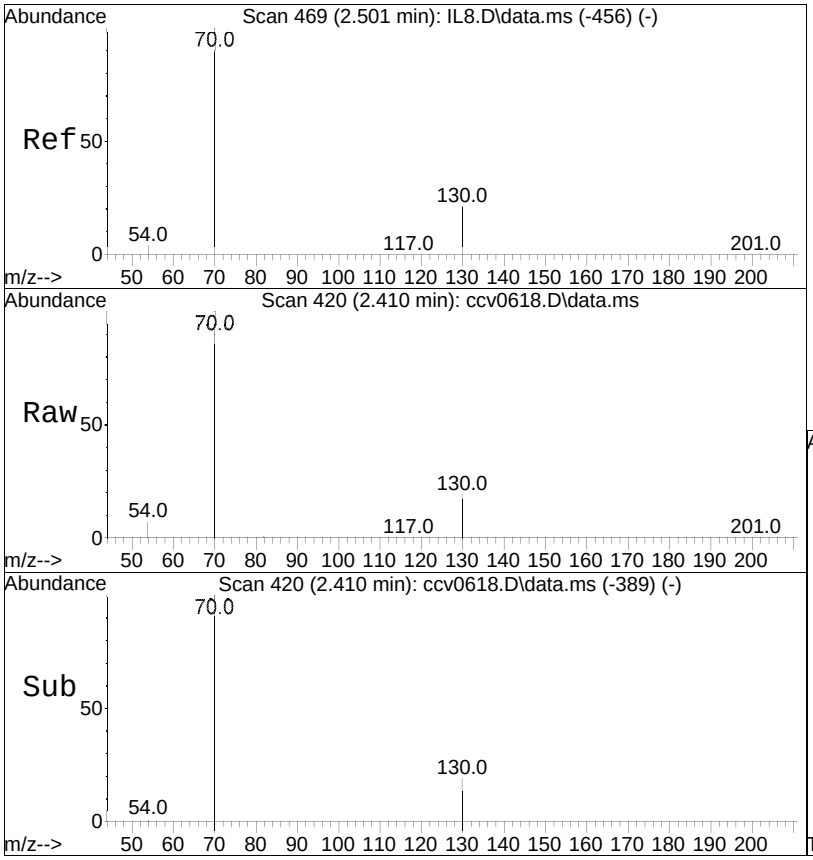


#4
Bis(2-chloroethyl)ether
Concen: 935.93 ng/ml
RT: 2.076 min Scan# 303
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion: 93 Resp: 30762

Ion	Ratio	Lower	Upper
93	100		
63	83.5	68.6	102.8

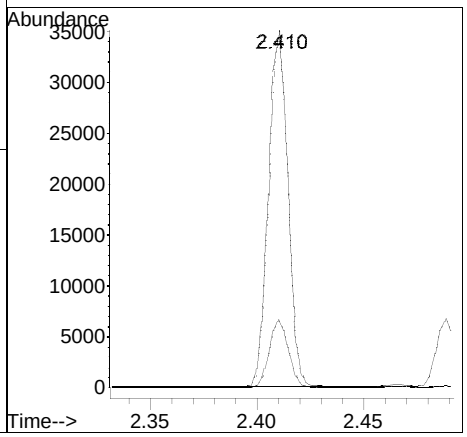


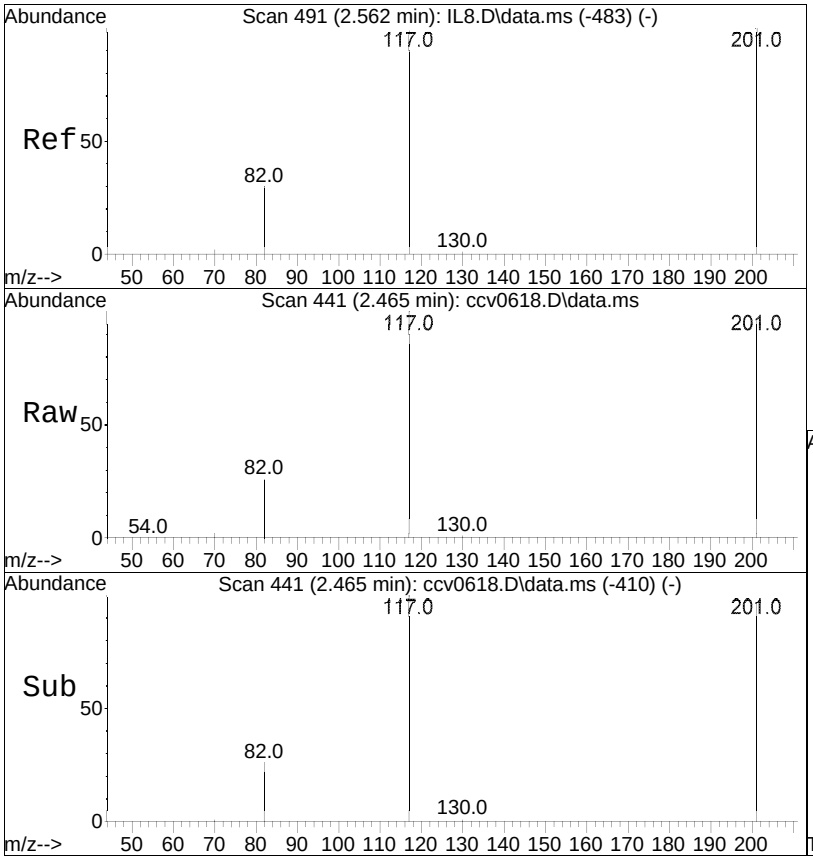


#5
n-nitrosodi-n-propylamine
Concen: 966.44 ng/ml
RT: 2.410 min Scan# 420
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion: 70 Resp: 21782

Ion	Ratio	Lower	Upper
70	100		
130	19.0	15.1	22.7

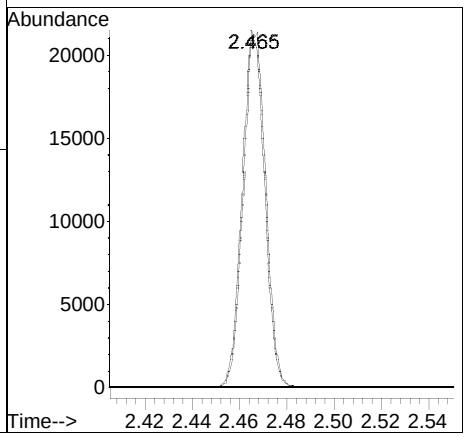


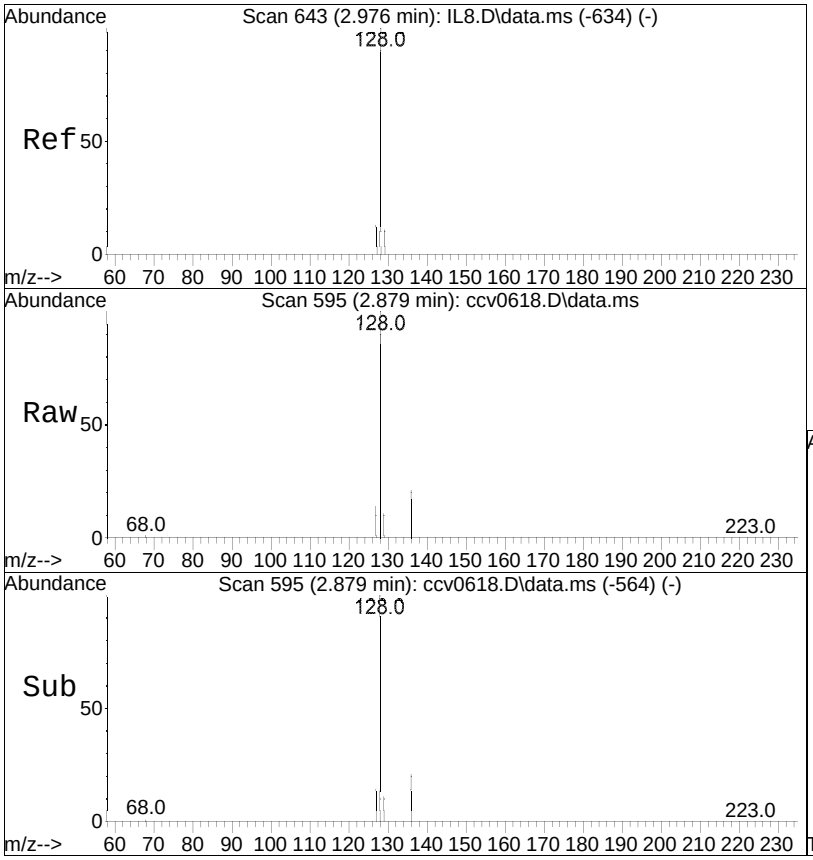


#6
Hexachloroethane
Concen: 922.28 ng/ml
RT: 2.465 min Scan# 441
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:117 Resp: 13735

Ion	Ratio	Lower	Upper
117	100		
201	100.6	79.4	119.2

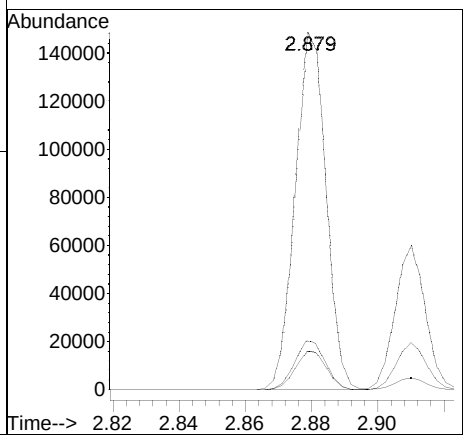


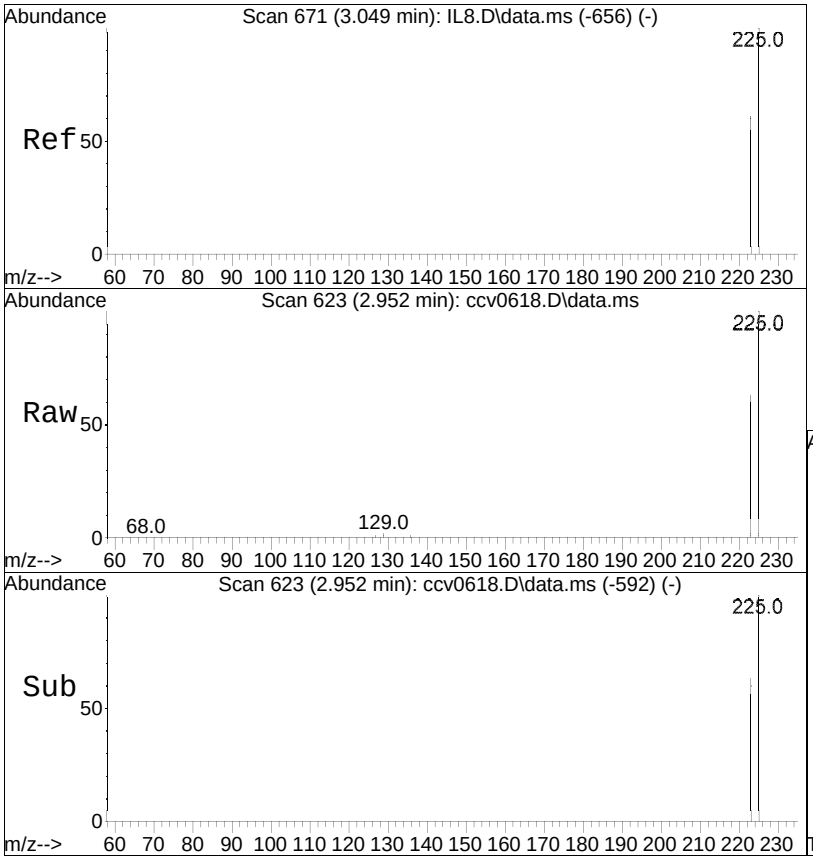


#9
Naphthalene
Concen: 885.11 ng/ml
RT: 2.879 min Scan# 595
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:128 Resp: 95828

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.7	11.3	16.9

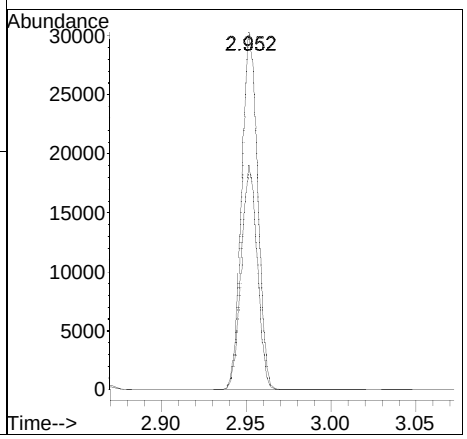


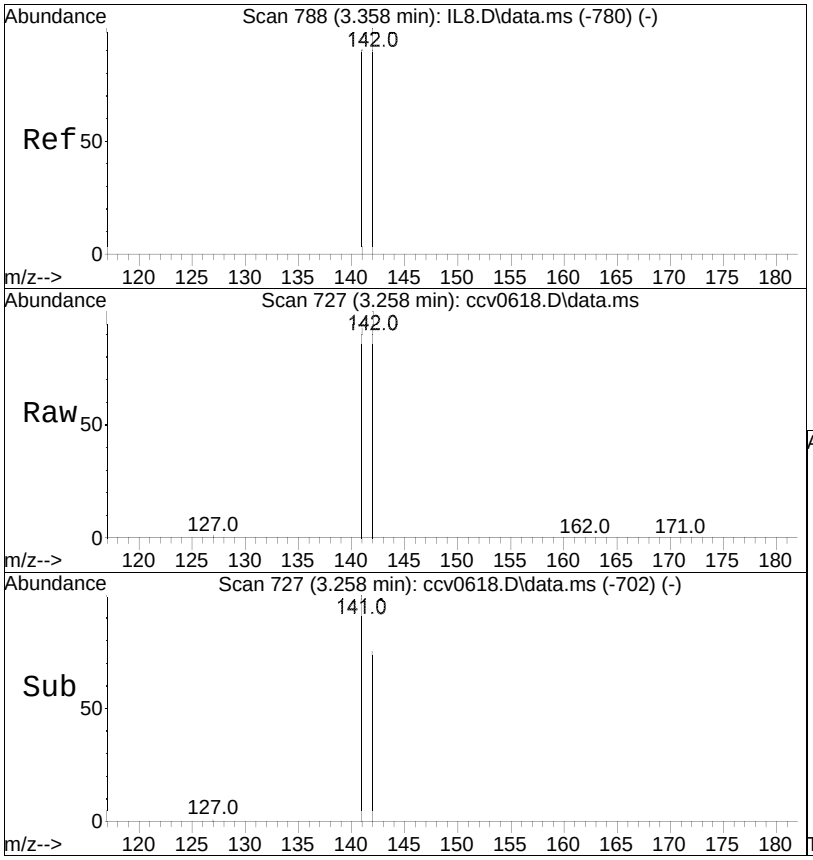


#10
Hexachlorobutadiene
Concen: 937.68 ng/ml
RT: 2.952 min Scan# 623
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:225 Resp: 19420

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1

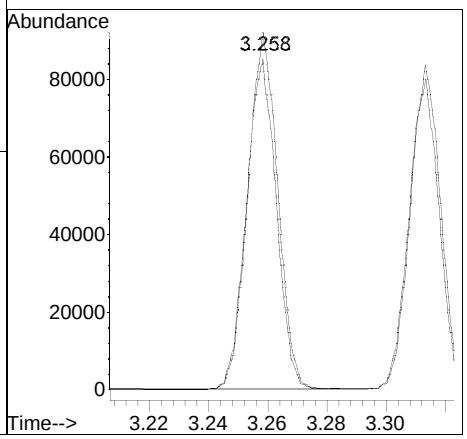


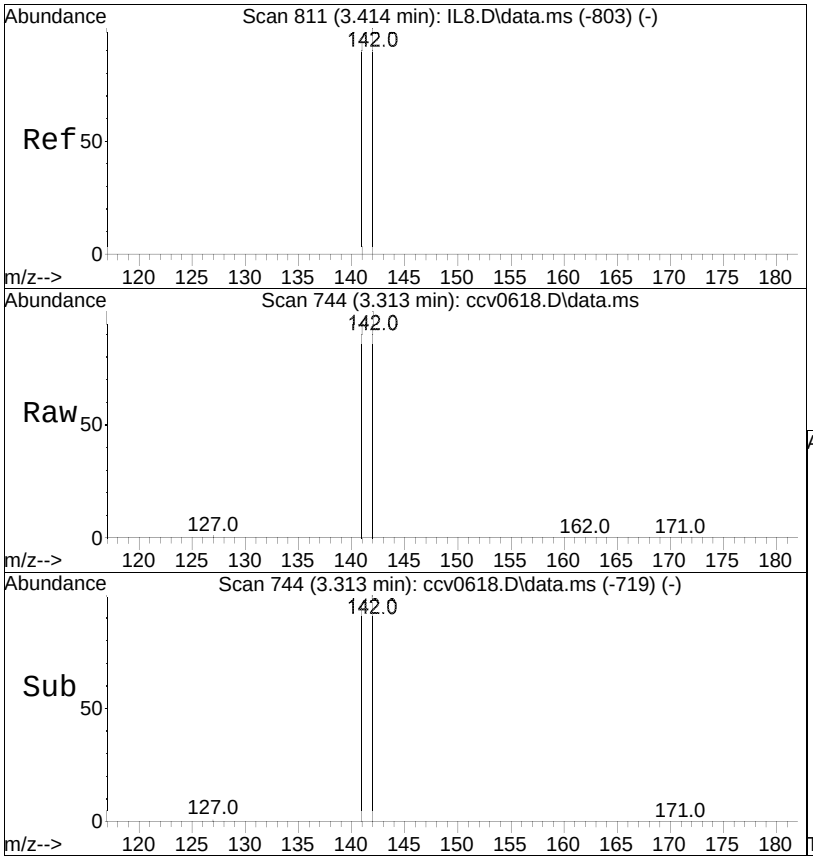


#11
2-Methylnaphthalene
Concen: 957.28 ng/ml
RT: 3.258 min Scan# 727
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:142 Resp: 64662

Ion	Ratio	Lower	Upper
142	100		
141	92.8	73.8	110.6

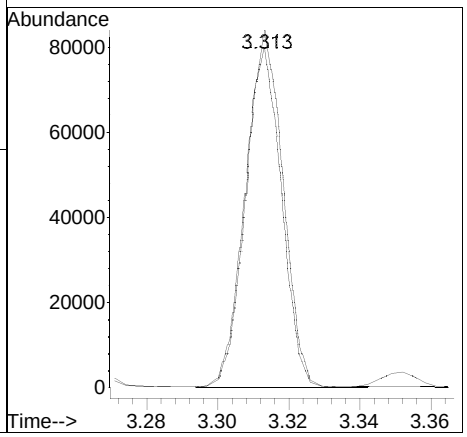


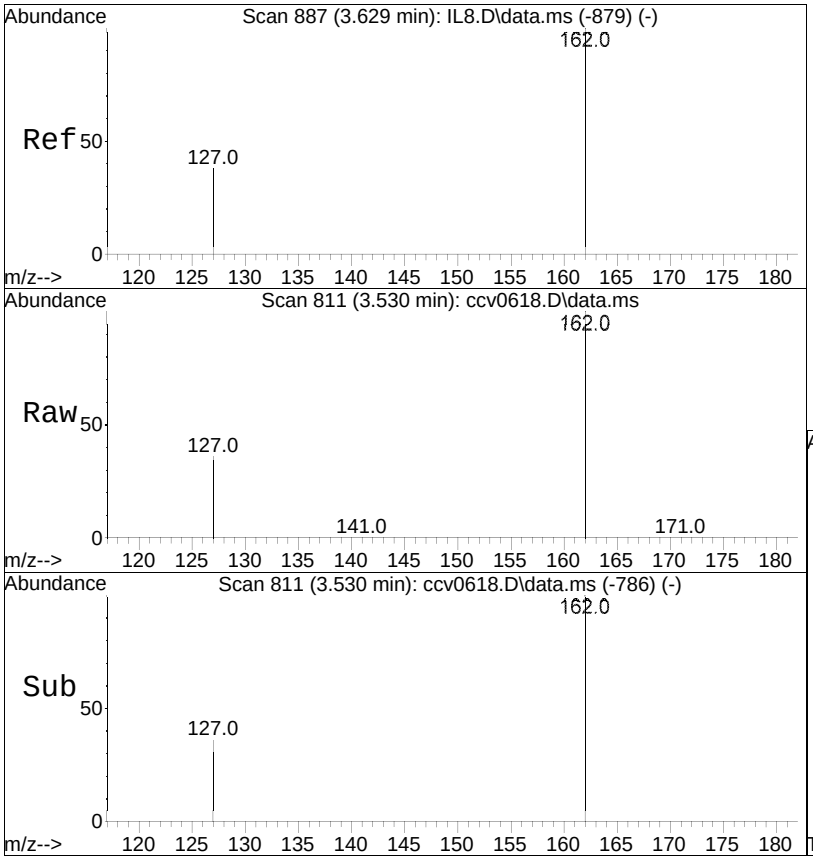


#12
1-Methylnaphthalene
Concen: 934.91 ng/ml
RT: 3.313 min Scan# 744
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:142 Resp: 59439

Ion	Ratio	Lower	Upper
142	100		
141	96.0	76.3	114.5

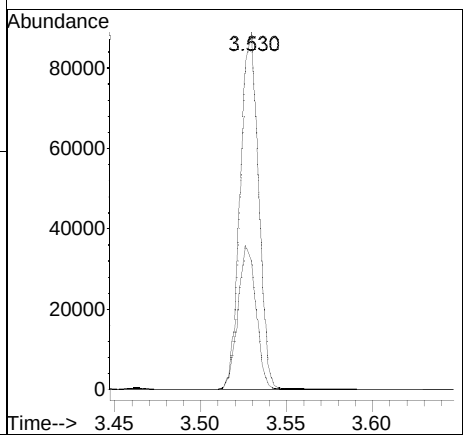


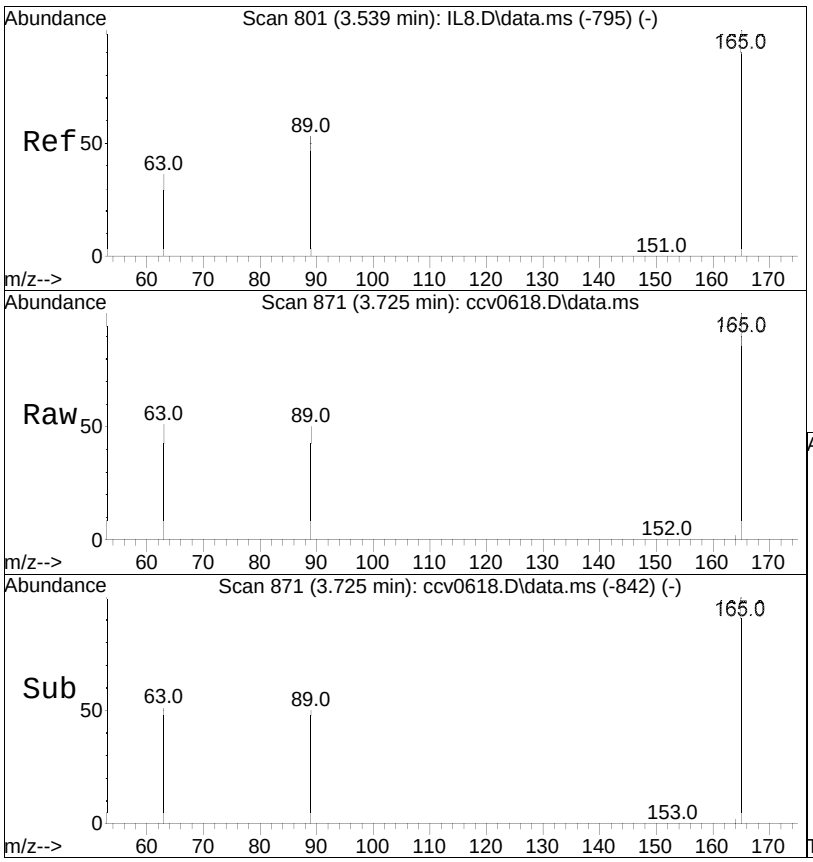


#14
2-Chloronaphthalene
Concen: 938.07 ng/ml
RT: 3.530 min Scan# 811
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:162 Resp: 64763

Ion	Ratio	Lower	Upper
162	100		
127	40.2	32.0	48.0

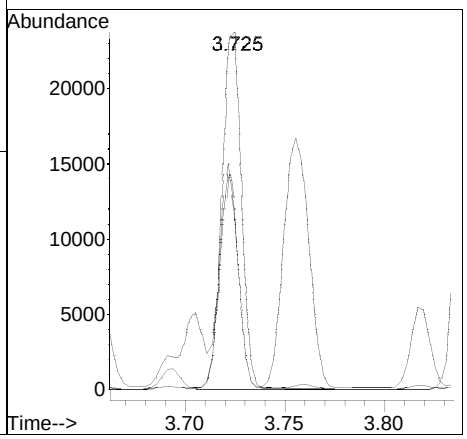


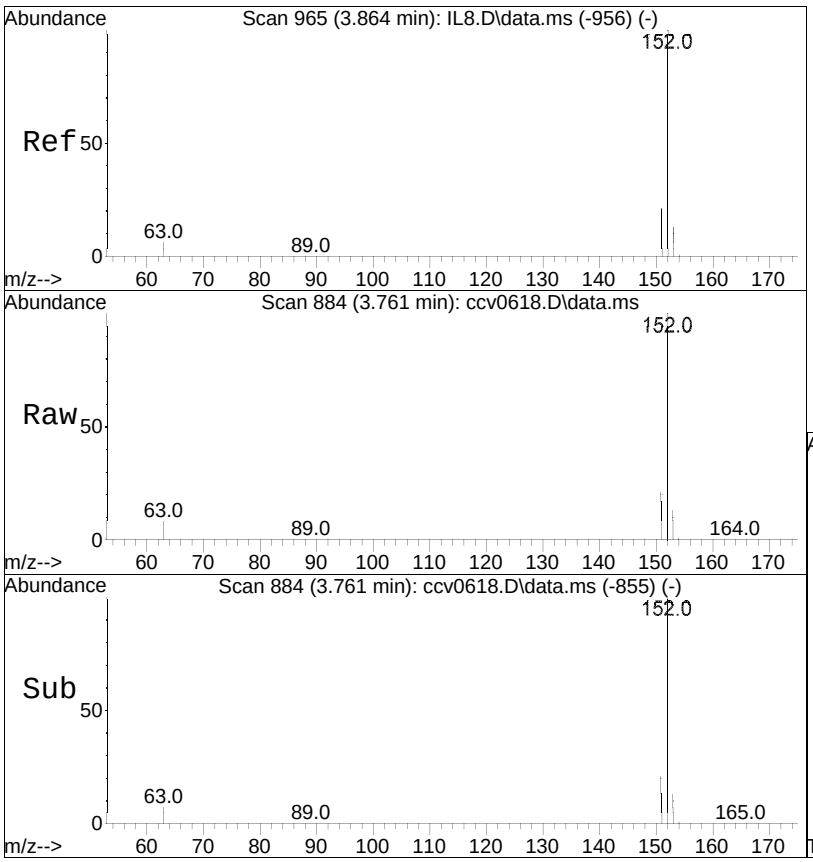


#15
2,6-Dinitrotoluene
Concen: 928.03 ng/ml
RT: 3.725 min Scan# 871
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:165 Resp: 15994

Ion	Ratio	Lower	Upper
165	100		
89	57.4	48.0	72.0
63	59.5	48.2	72.2

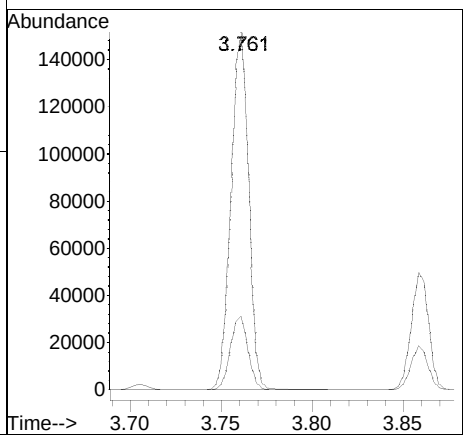


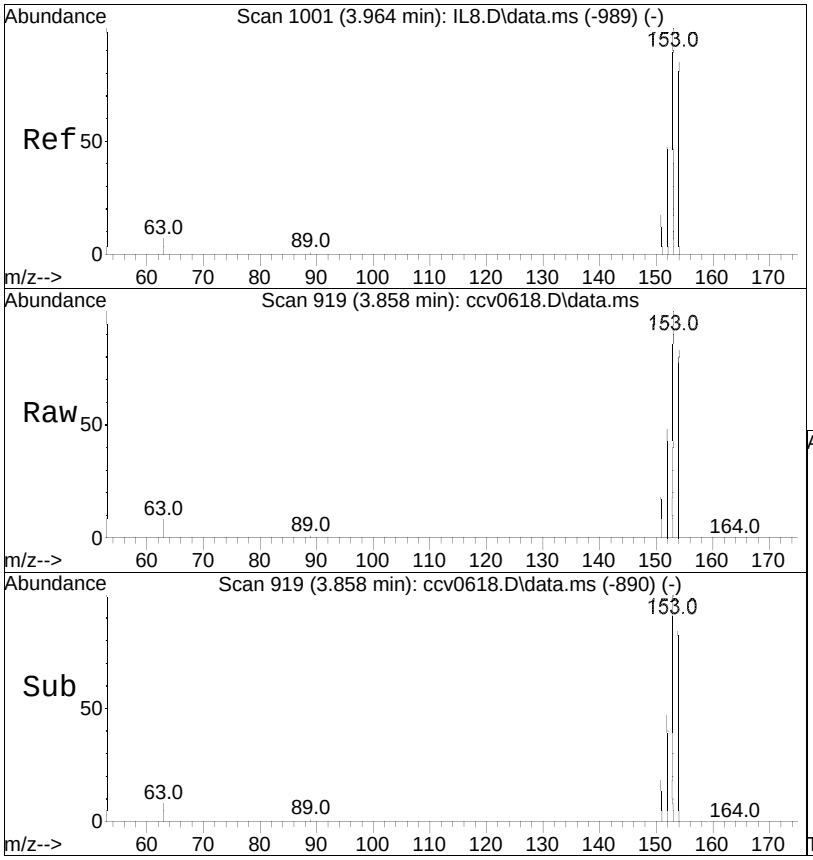


#16
Acenaphthylene
Concen: 995.88 ng/ml
RT: 3.761 min Scan# 884
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:152 Resp: 101186

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7

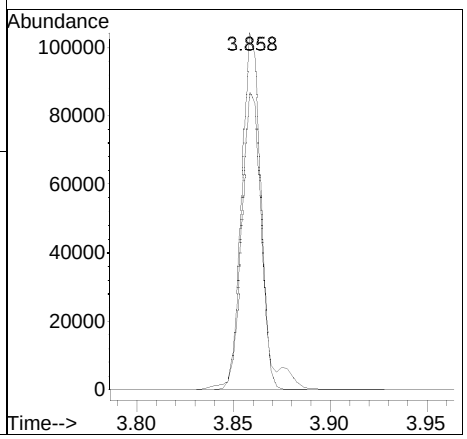


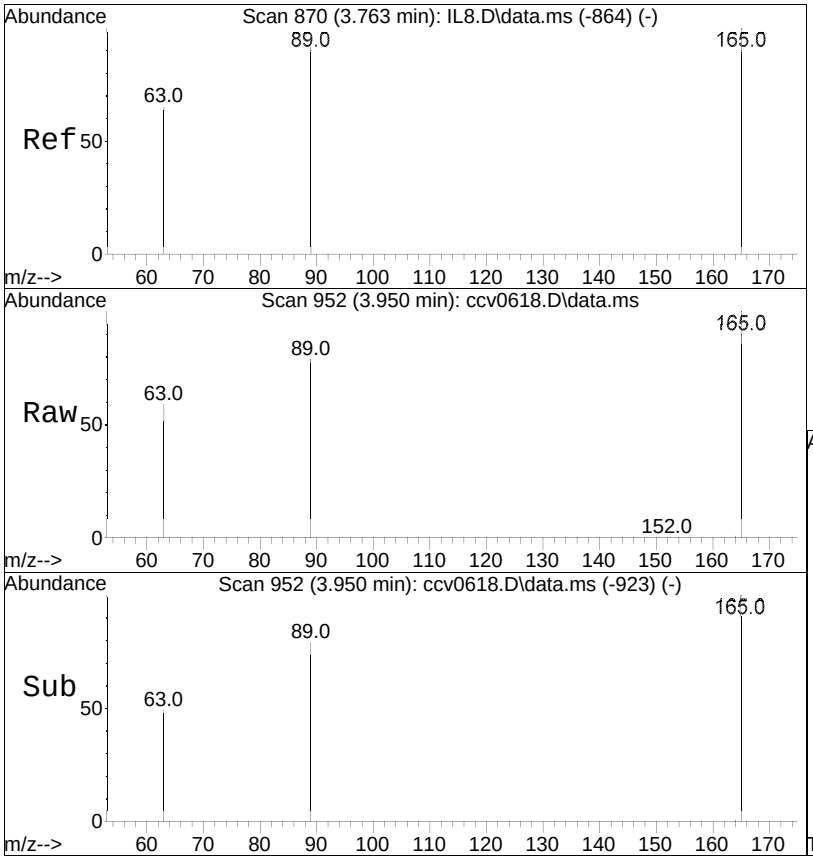


#18
Acenaphthene
Concen: 918.25 ng/ml
RT: 3.858 min Scan# 919
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:153 Resp: 69436

Ion	Ratio	Lower	Upper
153	100		
154	91.8	73.4	110.2

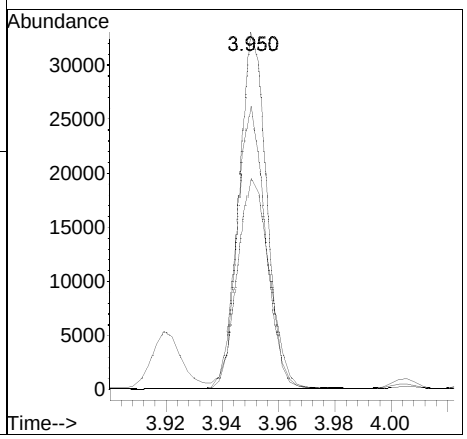


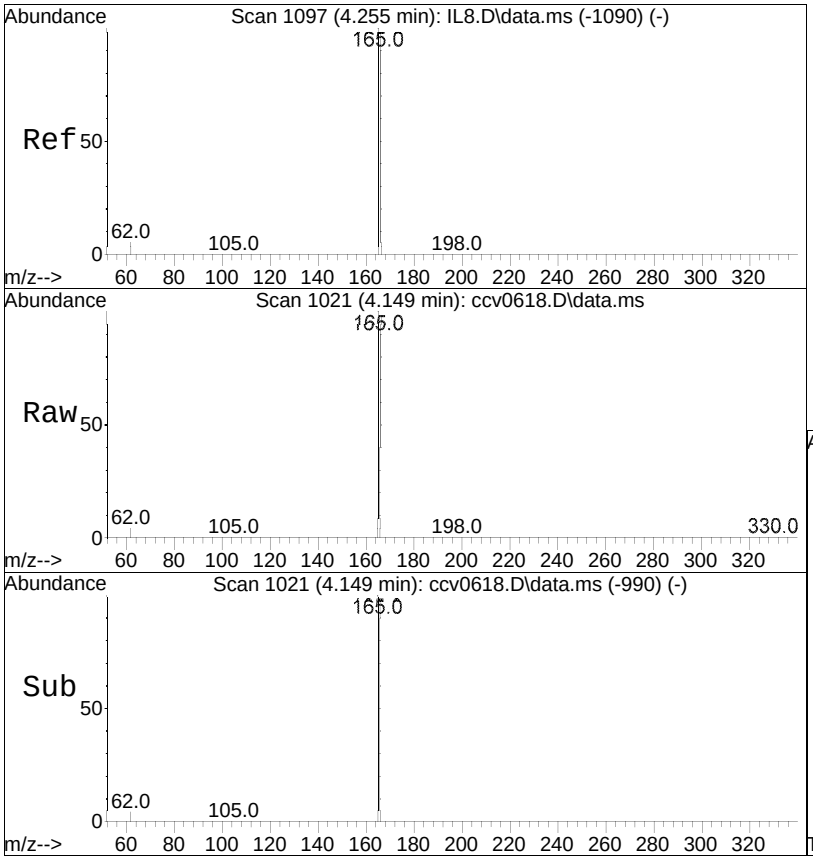


#19
2,4-Dinitrotoluene
Concen: 899.12 ng/ml
RT: 3.950 min Scan# 952
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:165 Resp: 22031

Ion	Ratio	Lower	Upper
165	100		
89	84.3	82.0	123.0
63	69.3	73.0	109.6#

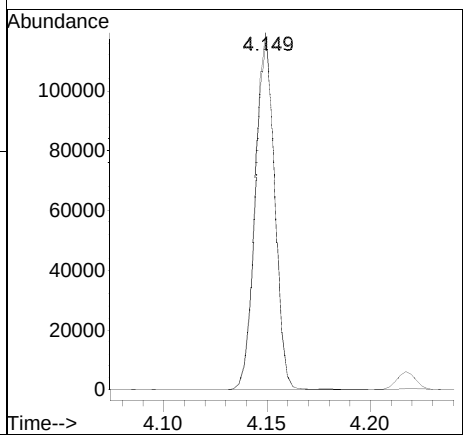


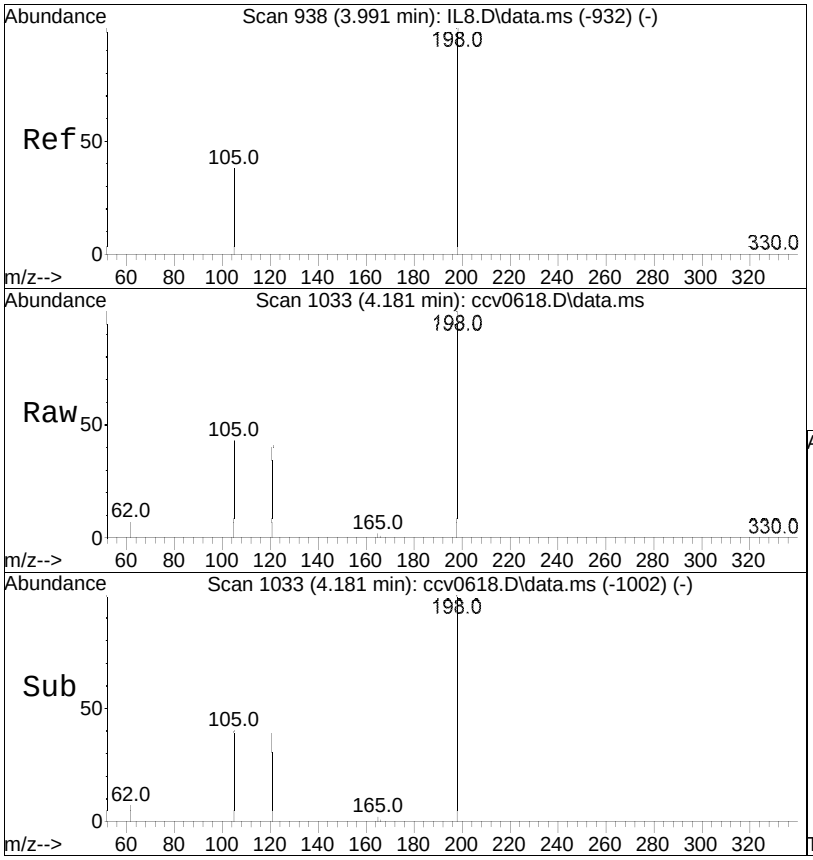


#20
Fluorene
Concen: 930.33 ng/ml
RT: 4.149 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:166 Resp: 75832

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.9	122.9

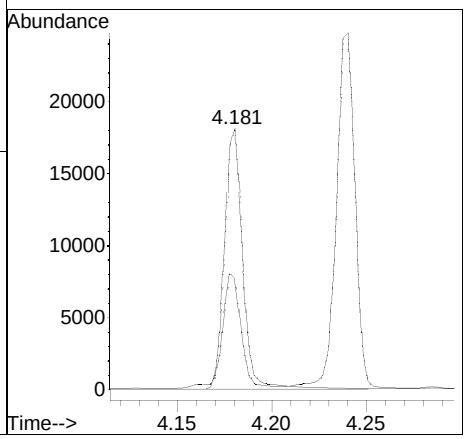


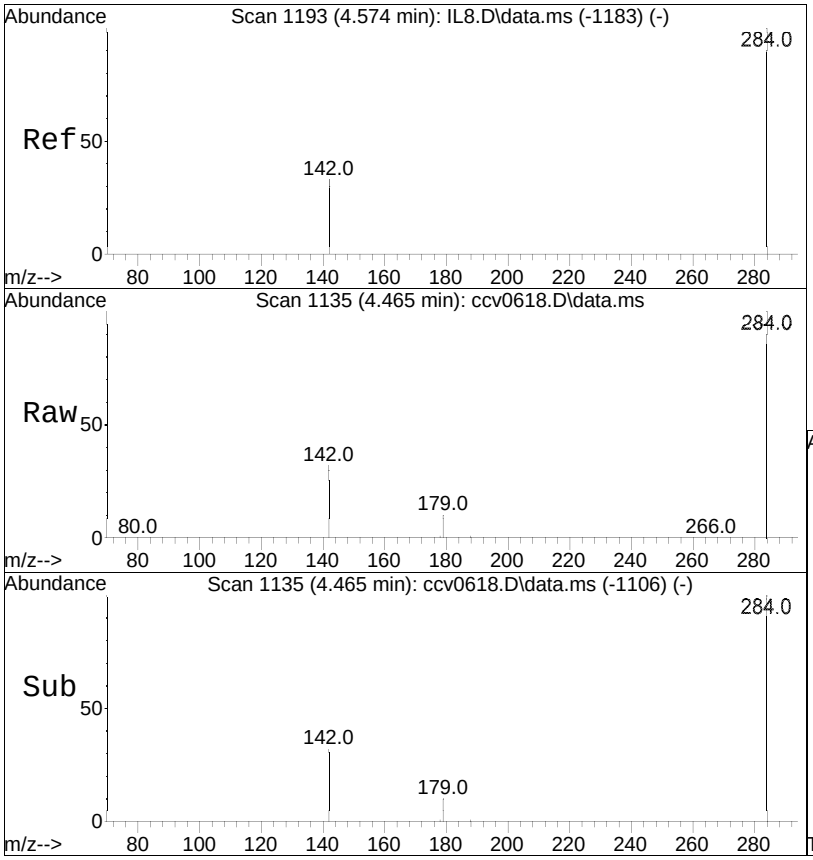


#23
4,6-Dinitro-o-cresol
Concen: 879.71 ng/ml
RT: 4.181 min Scan# 1033
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:198 Resp: 12058

Ion	Ratio	Lower	Upper
198	100		
105	45.8	37.8	56.8

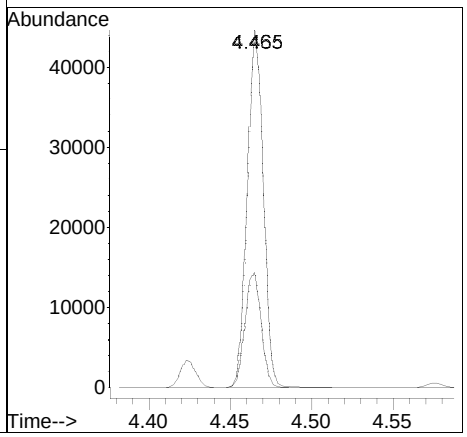


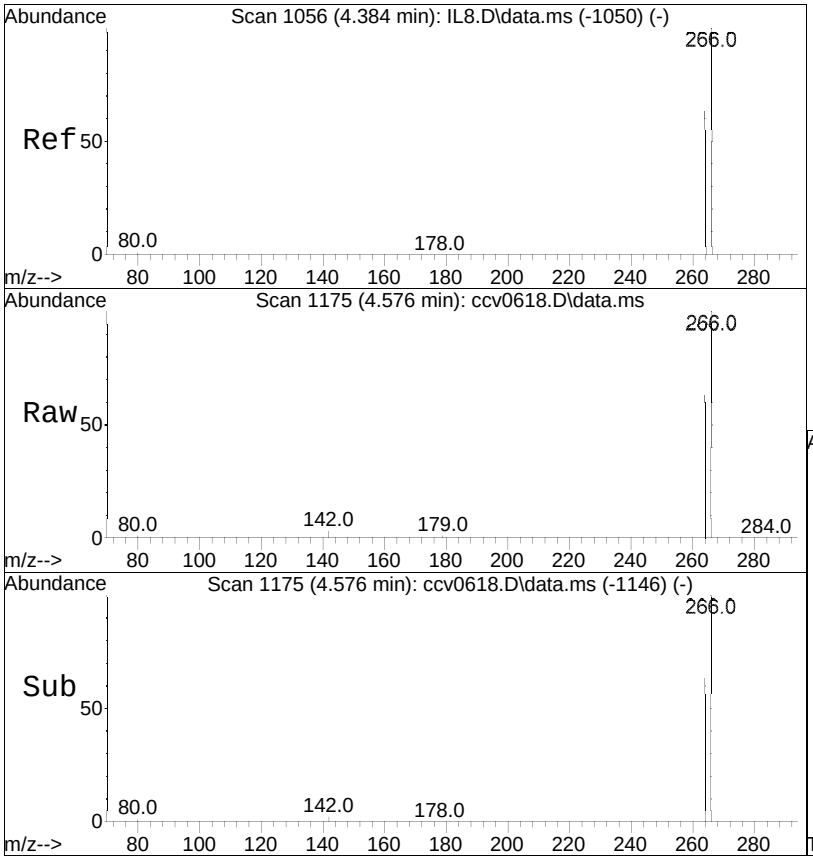


#24
Hexachlorobenzene
Concen: 887.37 ng/ml
RT: 4.465 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:284 Resp: 29969

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.8	40.2

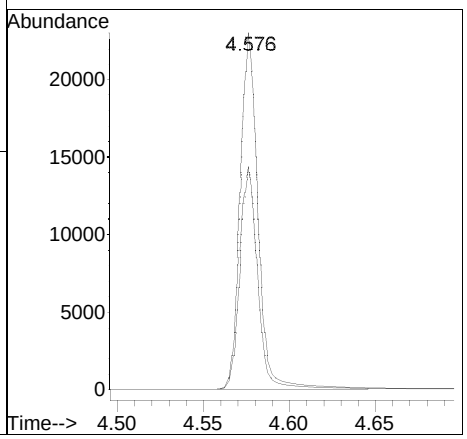


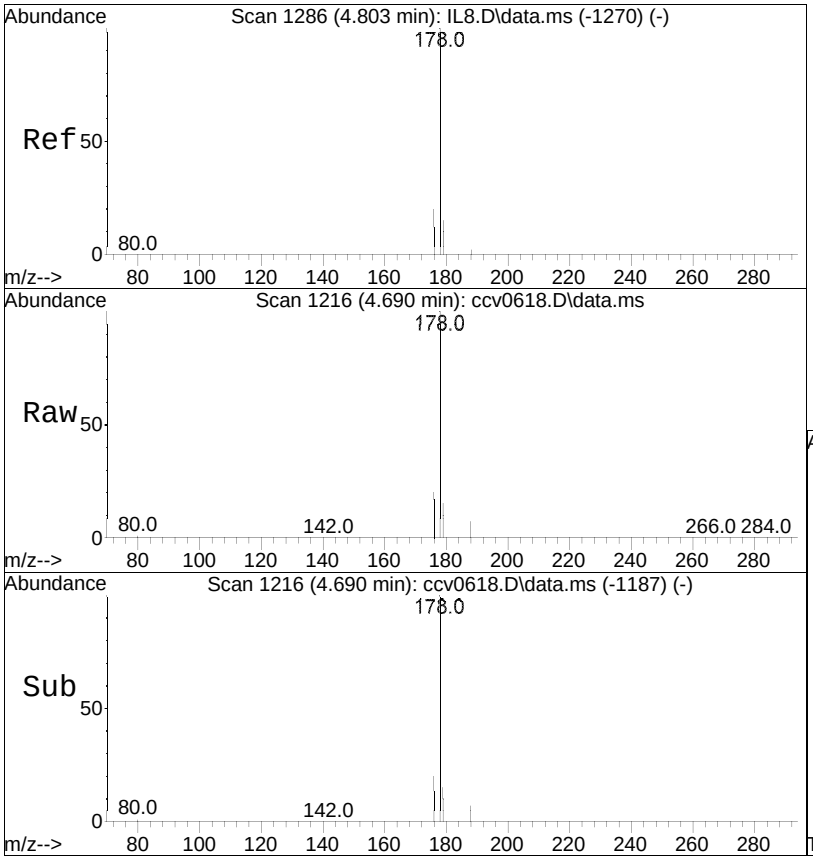


#25
Pentachlorophenol
Concen: 851.41 ng/ml
RT: 4.576 min Scan# 1175
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:266 Resp: 16428

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.2	75.2

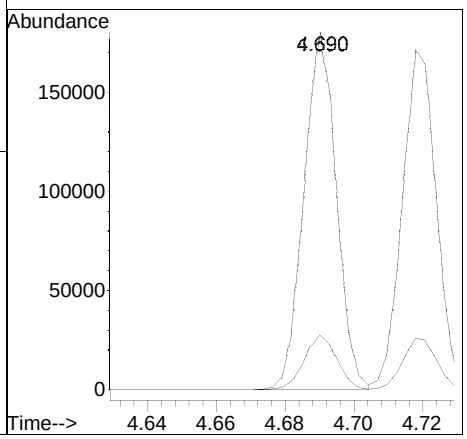


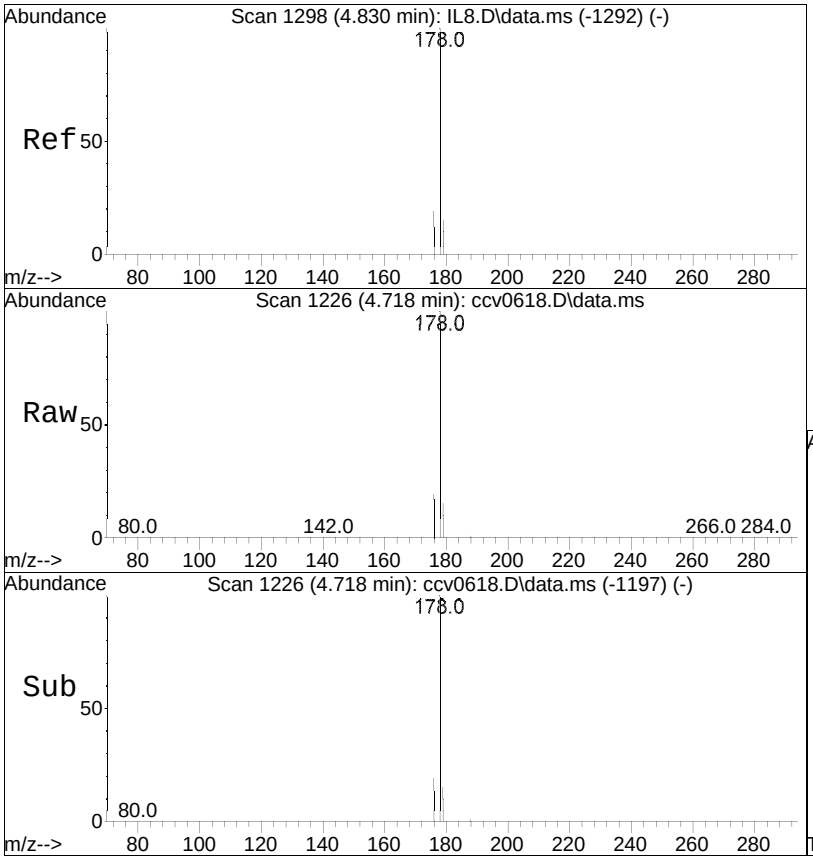


#26
Phenanthrene
Concen: 894.61 ng/ml
RT: 4.690 min Scan# 1216
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:178 Resp: 117904

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

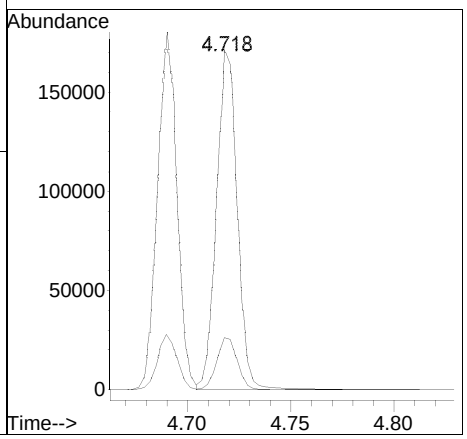


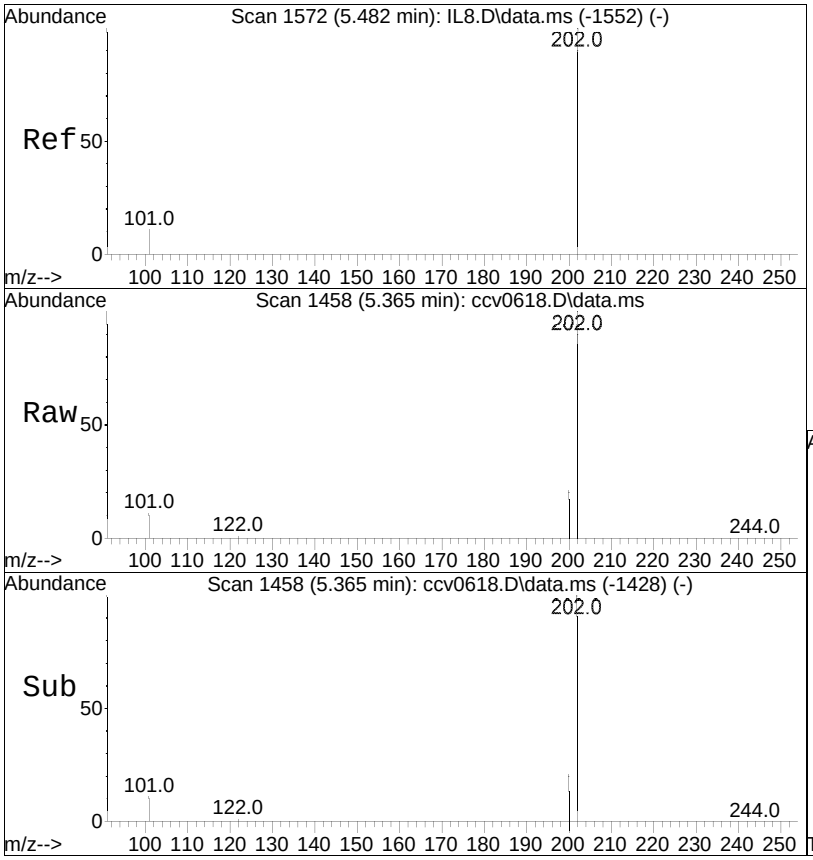


#27
Anthracene
Concen: 911.67 ng/ml
RT: 4.718 min Scan# 1226
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:178 Resp: 118716

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

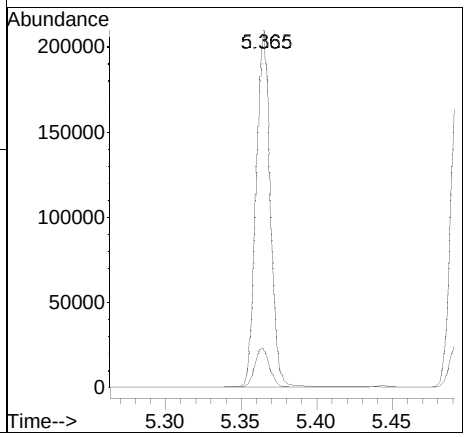


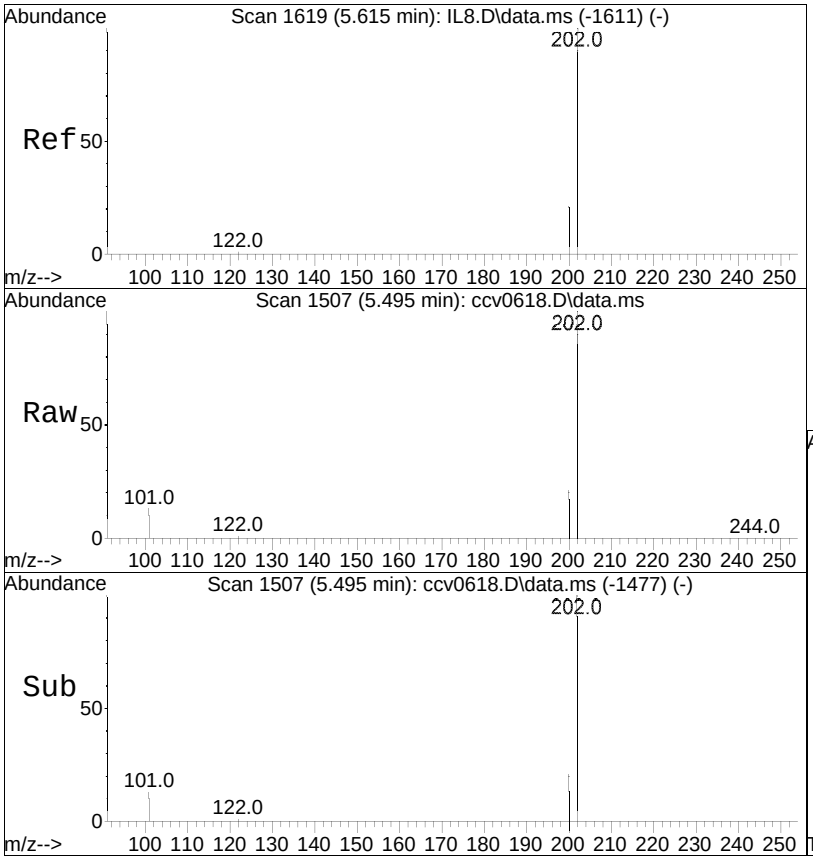


#28
Fluoranthene
Concen: 967.03 ng/ml
RT: 5.365 min Scan# 1458
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:202 Resp: 138223

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.0	13.6

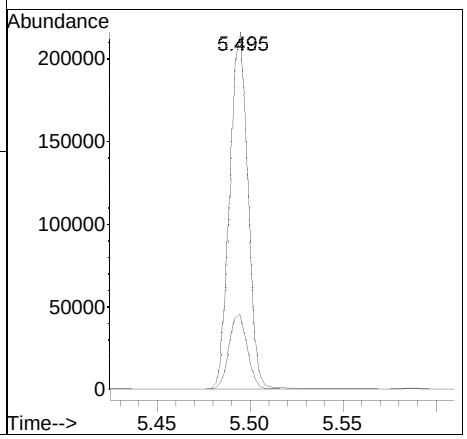


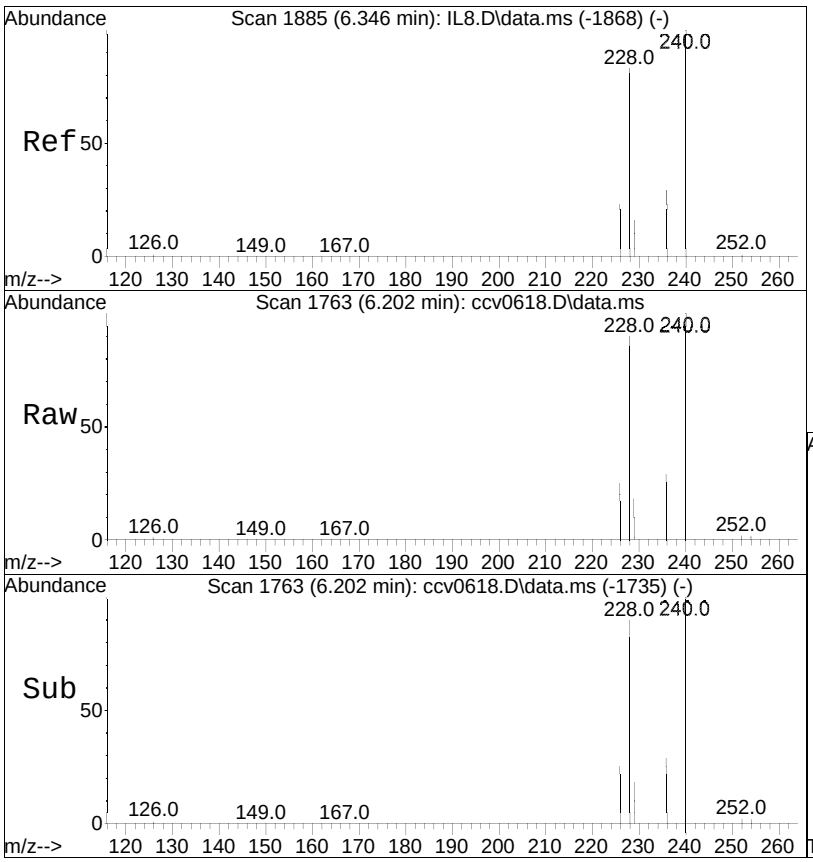


#29
Pyrene
Concen: 980.74 ng/ml
RT: 5.495 min Scan# 1507
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:202 Resp: 145361

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

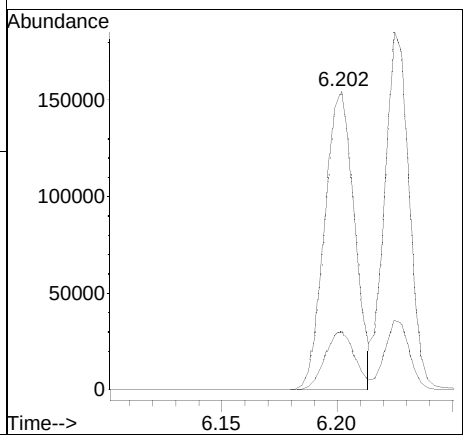


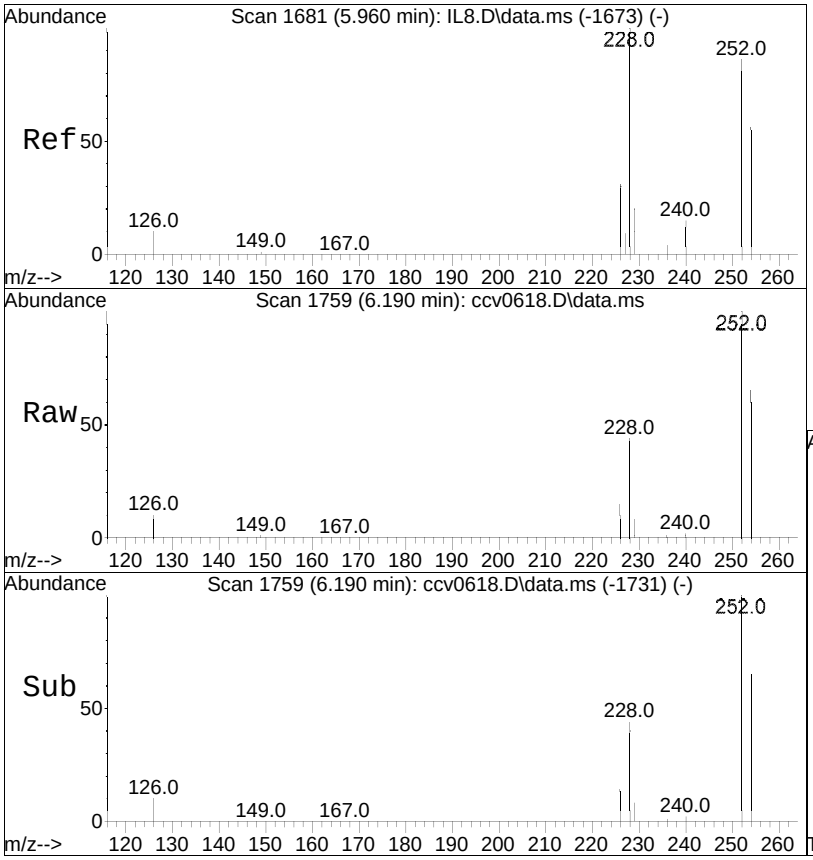


#32
Benzo[a]anthracene
Concen: 841.88 ng/ml
RT: 6.202 min Scan# 1763
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:228 Resp: 138325

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

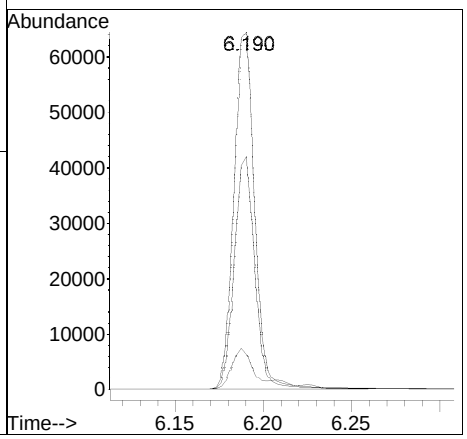


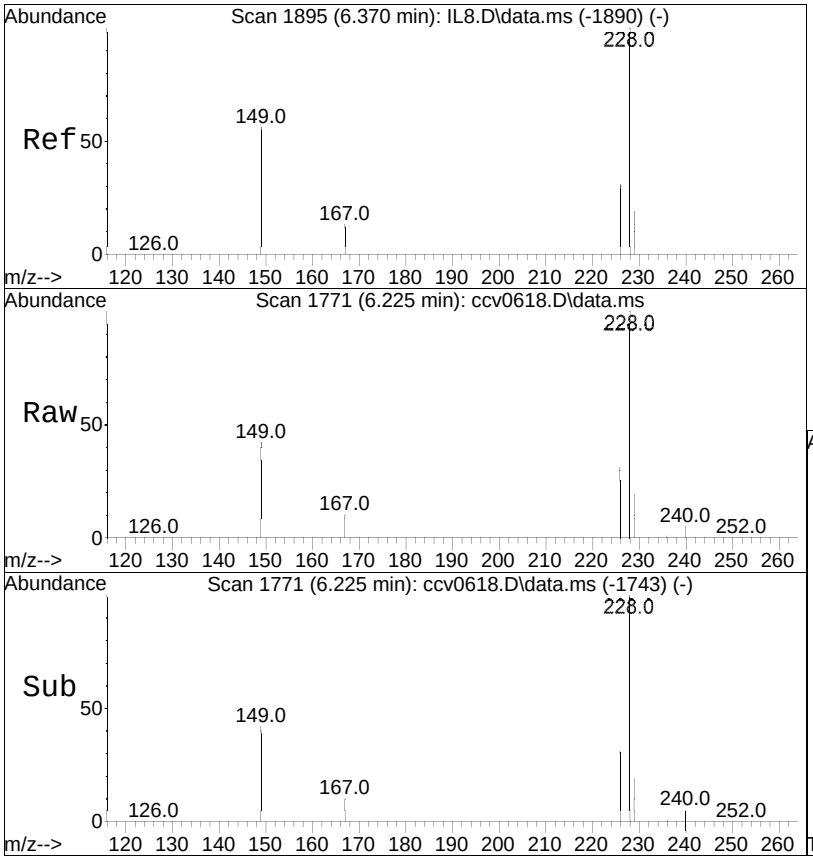


#33
3,3'-Dichlorobenzene
Concen: 910.11 ng/ml
RT: 6.190 min Scan# 1759
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:252 Resp: 51853

Ion	Ratio	Lower	Upper
252	100		
126	11.8	9.4	14.2
254	64.6	51.4	77.2

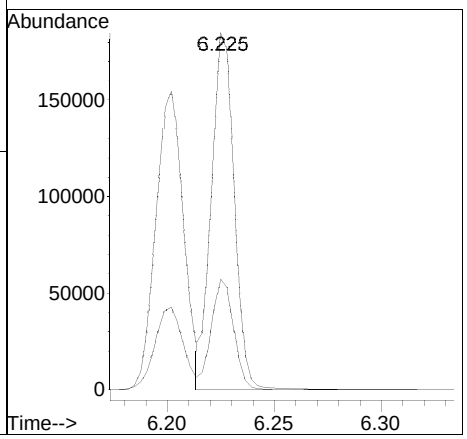


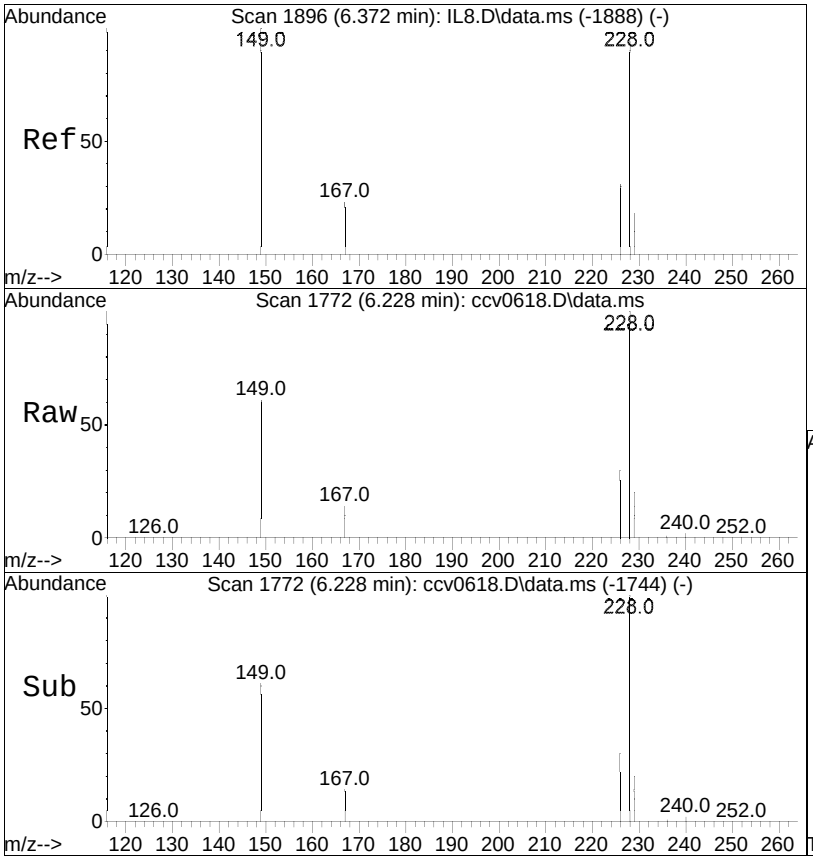


#34
Chrysene
Concen: 882.13 ng/ml
RT: 6.225 min Scan# 1771
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:228 Resp: 136710

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

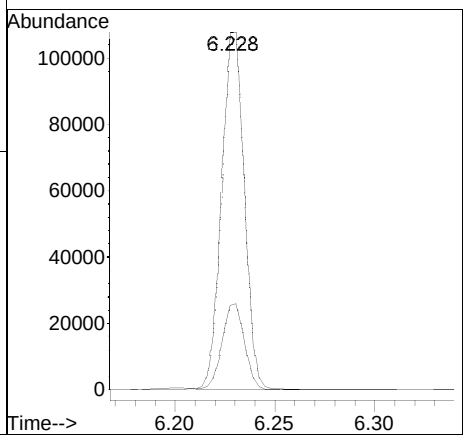


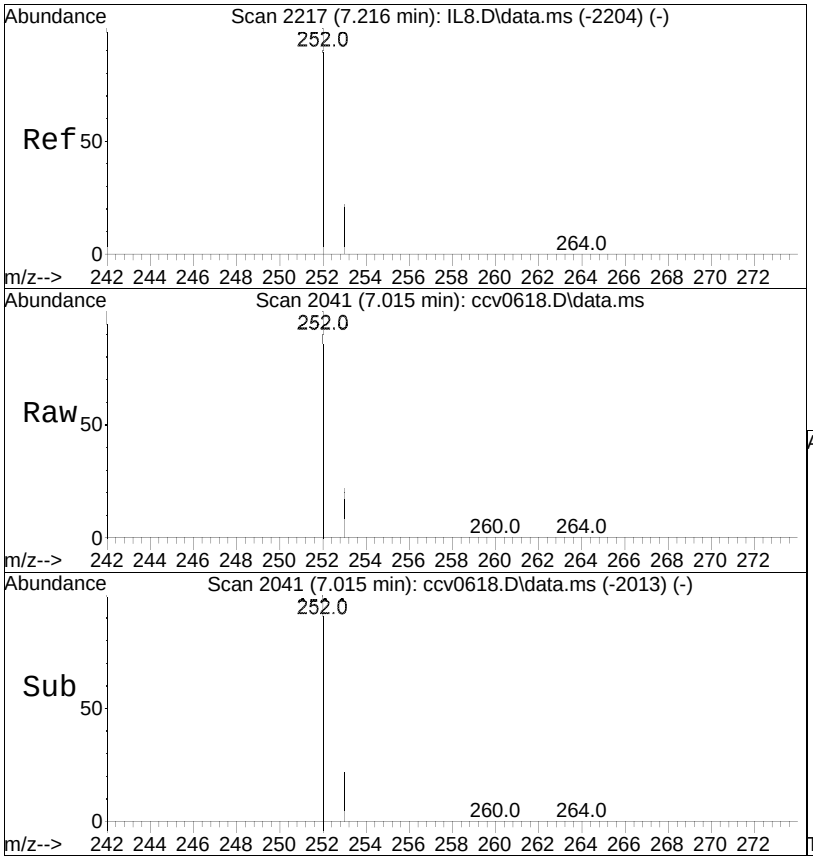


#35
Bis(2-ethylhexyl)phthalate
Concen: 808.05 ng/ml
RT: 6.228 min Scan# 1772
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:149 Resp: 84064

Ion	Ratio	Lower	Upper
149	100		
167	24.2	19.2	28.8

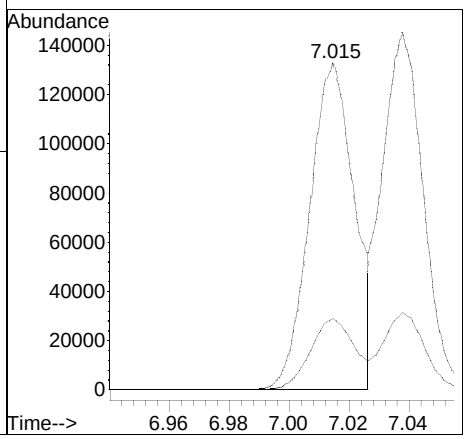


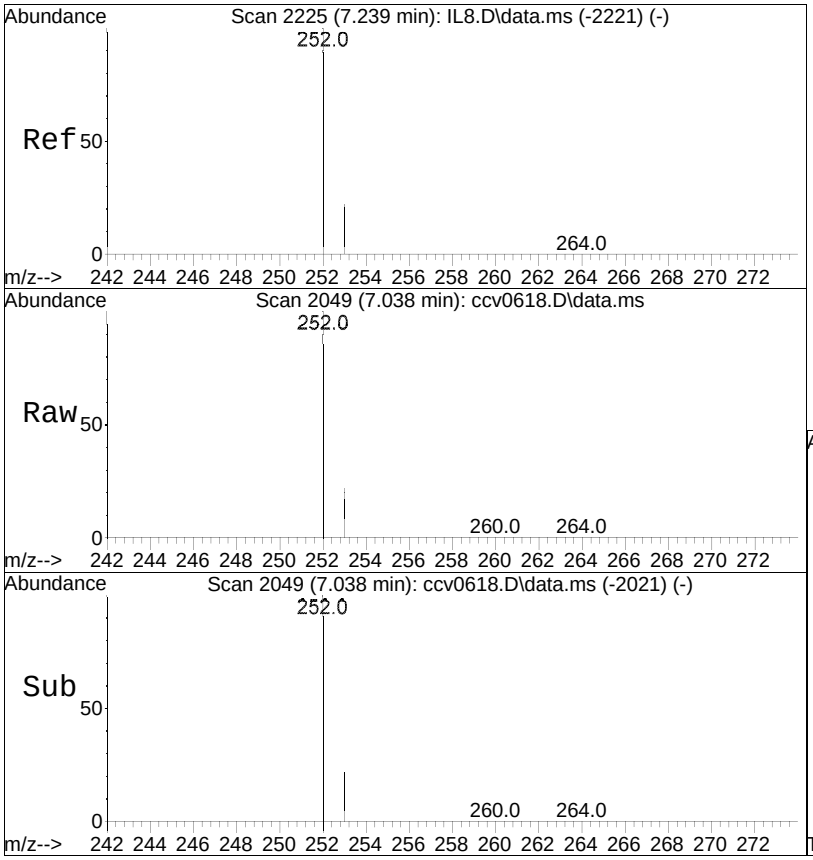


#37
Benzo[b]fluoranthene
Concen: 911.05 ng/ml
RT: 7.015 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:252 Resp: 138628

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

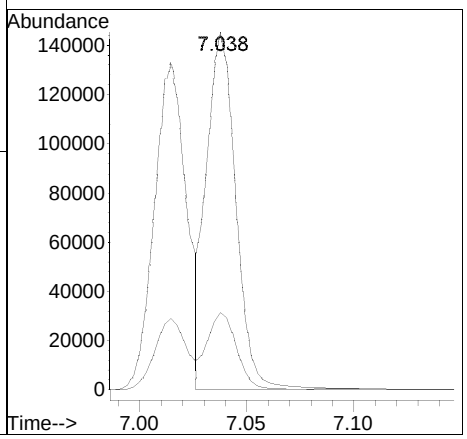


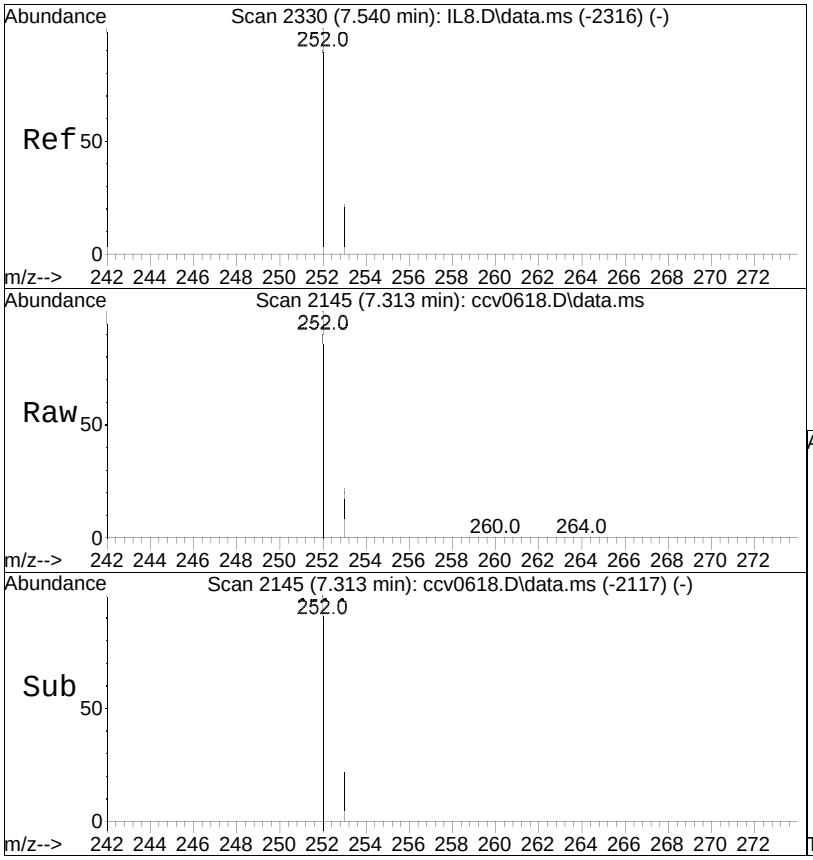


#38
Benzo[k]fluoranthene
Concen: 942.56 ng/ml
RT: 7.038 min Scan# 2049
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:252 Resp: 136542

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

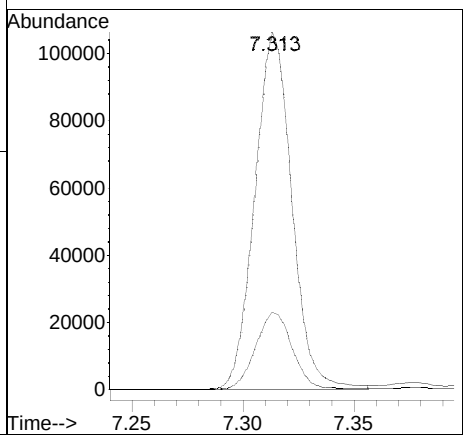


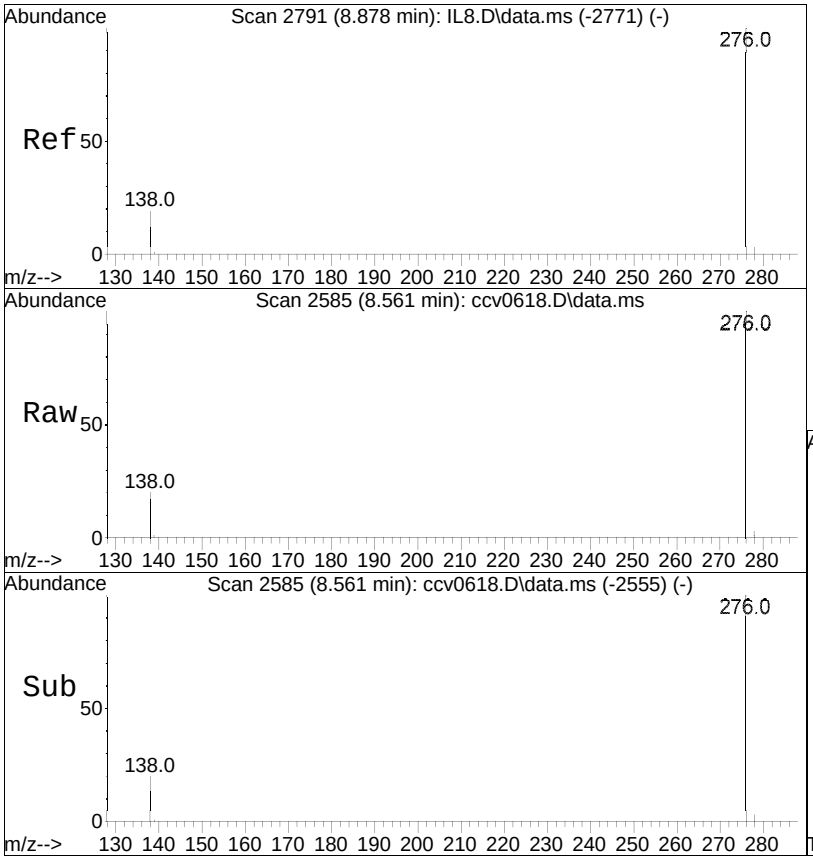


#39
Benzo[a]pyrene
Concen: 971.83 ng/ml
RT: 7.313 min Scan# 2145
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:252 Resp: 121899

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

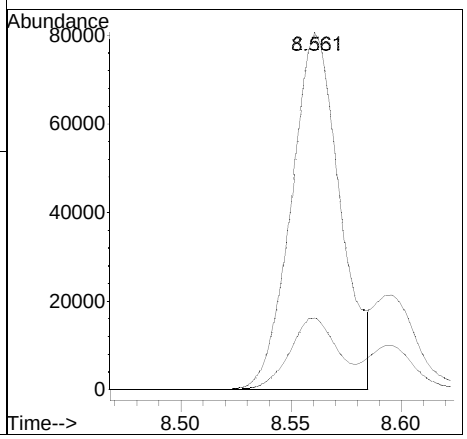


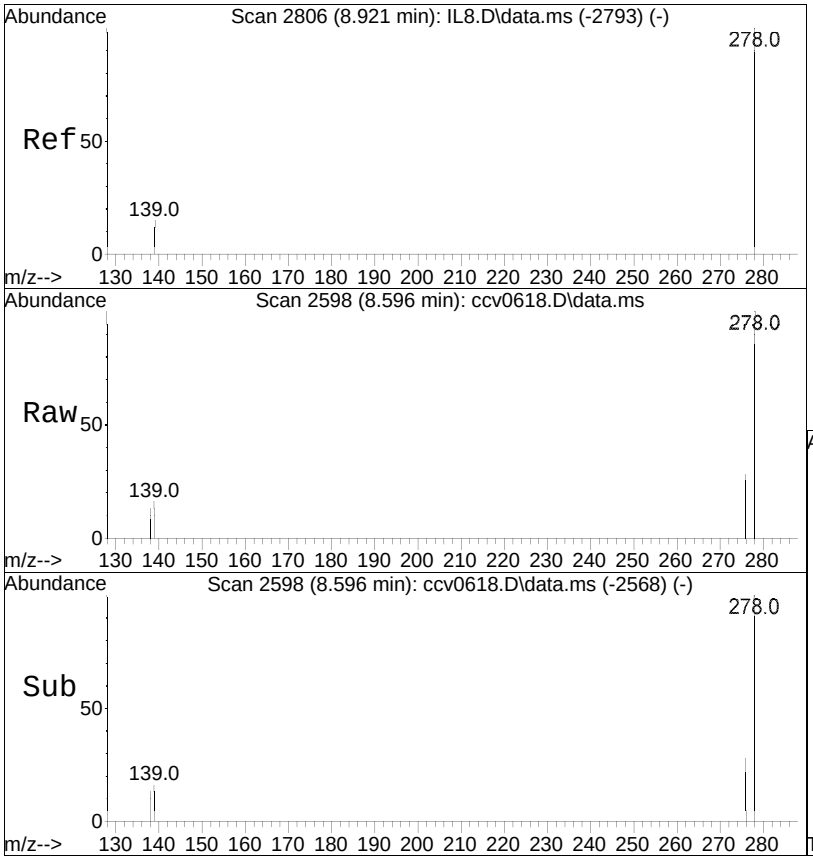


#40
Indeno[1,2,3-cd]pyrene
Concen: 1044.56 ng/ml
RT: 8.561 min Scan# 2585
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:276 Resp: 123394

Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.6	24.8

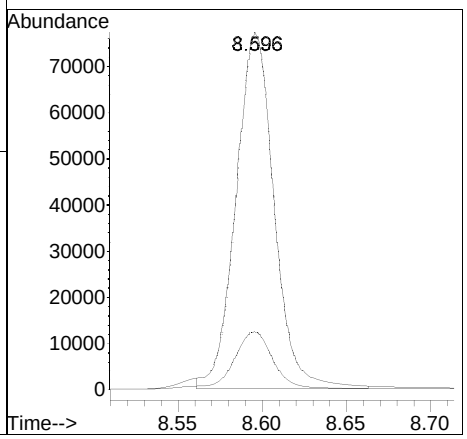


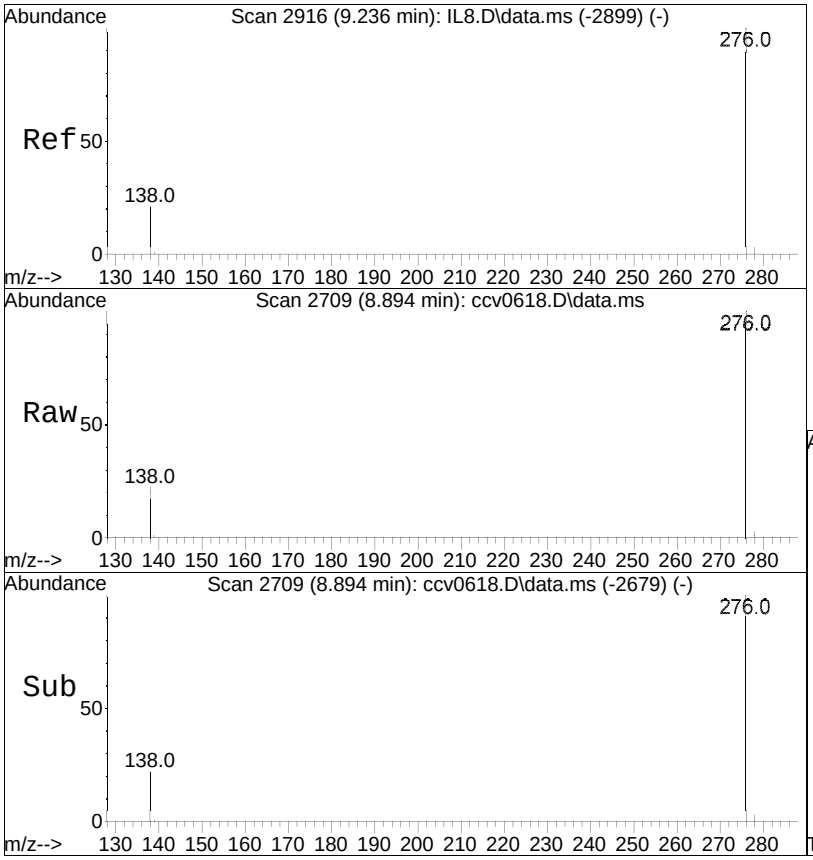


#41
Dibenzo[a,h]anthracene
Concen: 1073.05 ng/ml M6
RT: 8.596 min Scan# 2598
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:278 Resp: 121381

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.0	21.0

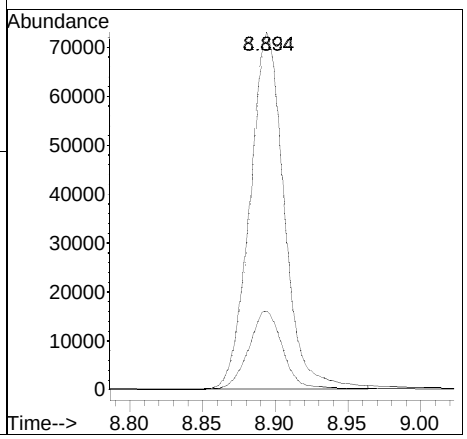




#42
Benzo[g,h,i]perylene
Concen: 988.73 ng/ml
RT: 8.894 min Scan# 2709
Delta R.T. 0.000 min
Lab File: ccv0618.D
Acq: 18 Jun 2024 07:13 am

Tgt Ion:276 Resp: 118828

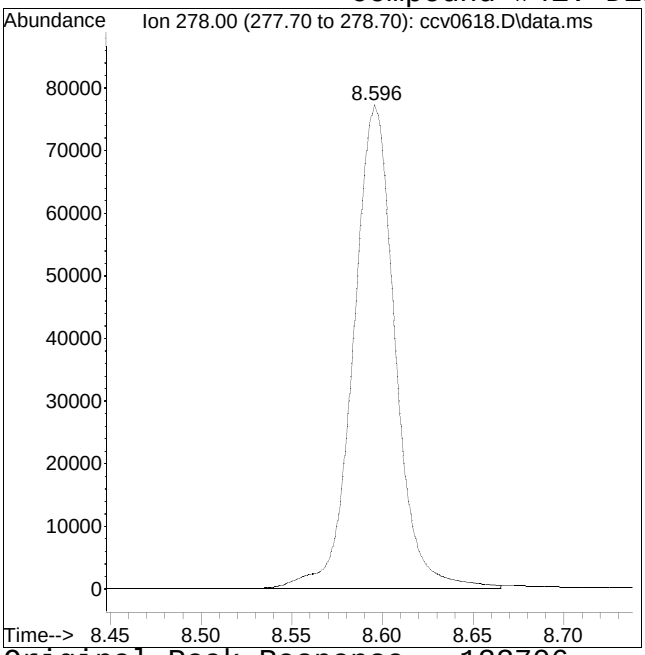
Ion	Ratio	Lower	Upper
276	100		
138	22.1	17.8	26.8



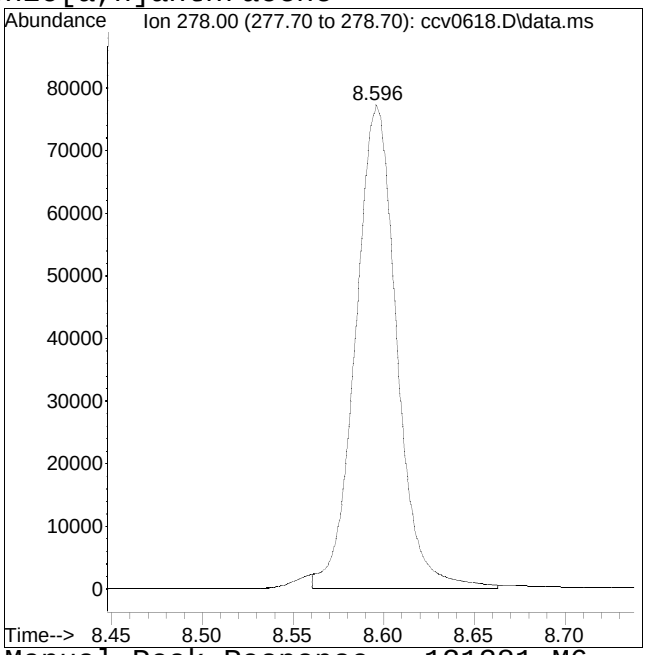
Manual Integration Report

Data Path : I:\8270SIM\sv120\240618RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ccv0618.D Operator : SV120:jjw
Date Inj'd : 6/18/2024 7:13 am Instrument : SV120
Sample : WG1935718-3,32,, ICV10475 Quant Date : 6/18/2024 7:28 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 123706



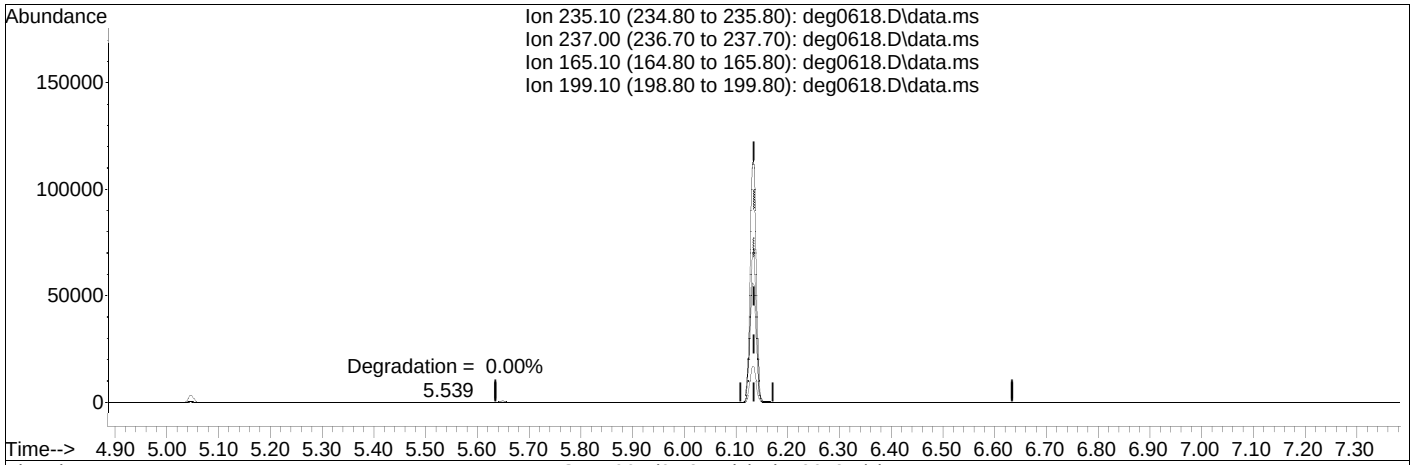
Manual Peak Response = 121381 M6

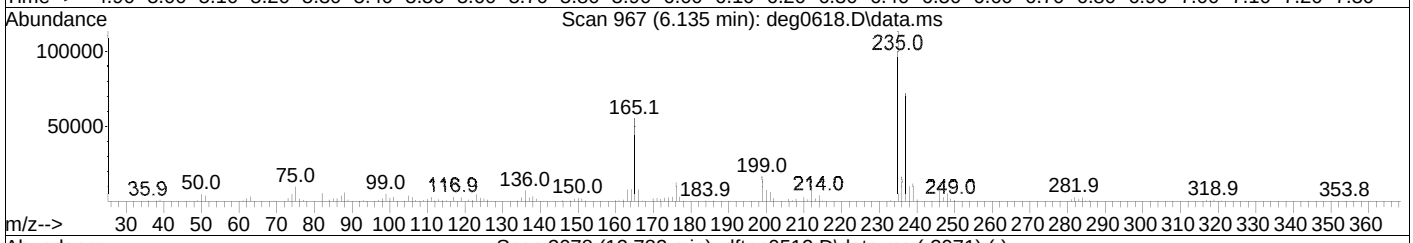
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

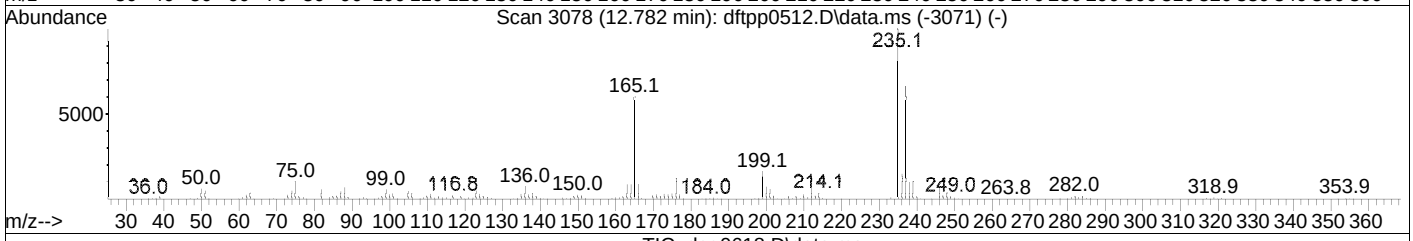
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : deg0618.D
Acq On : 18 Jun 2024 06:57 am
Operator : SV120:jjw
Sample : WG1935718-2,32,, dftpp SV120 lot#10809
Misc : WG1935718,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 18 07:10:19 2024
Quant Method : I:\8270SIM\sv120\240618RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0618.D\data.ms

(6) ddt (T)

6.135min (-0.000) 14.69

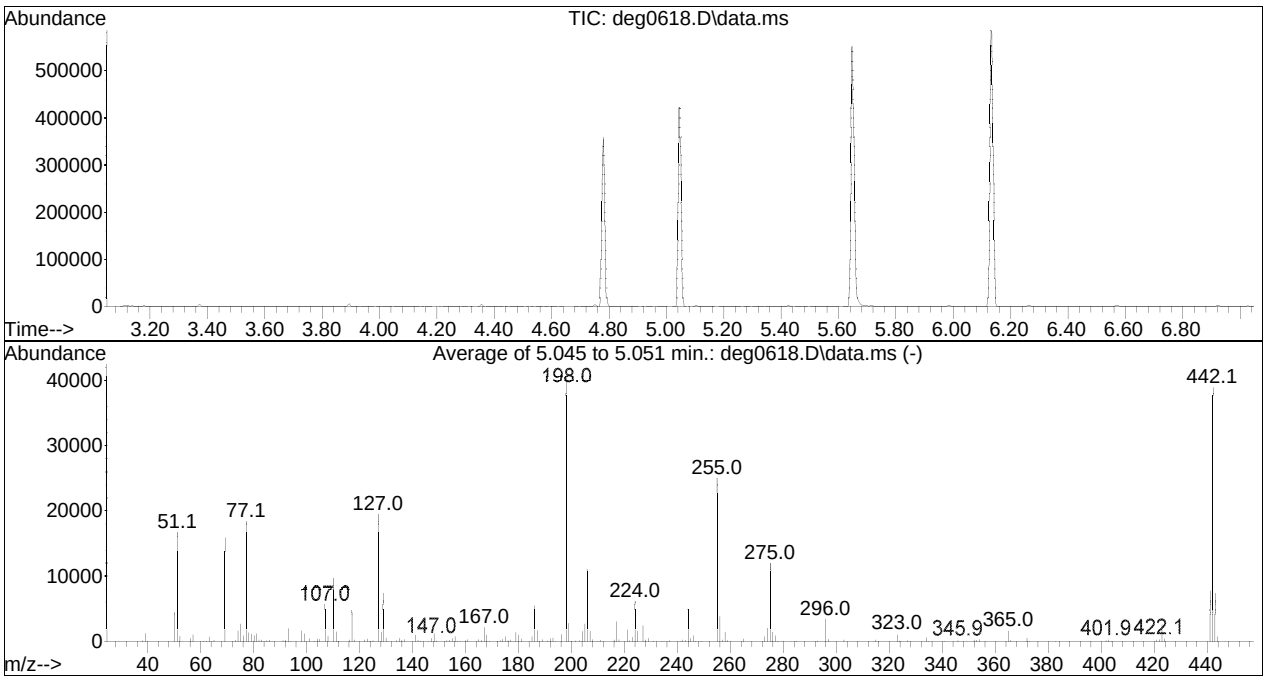
response 89555

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.44
165.10	53.30	49.44
199.10	17.10	14.87

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : deg0618.D
Acq On : 18 Jun 2024 06:57 am
Operator : SV120:jjw
Sample : WG1935718-1,32,, dftpp SV120 lot#10809
Misc : WG1935718,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240618RVT\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 18 07:28:10 2024



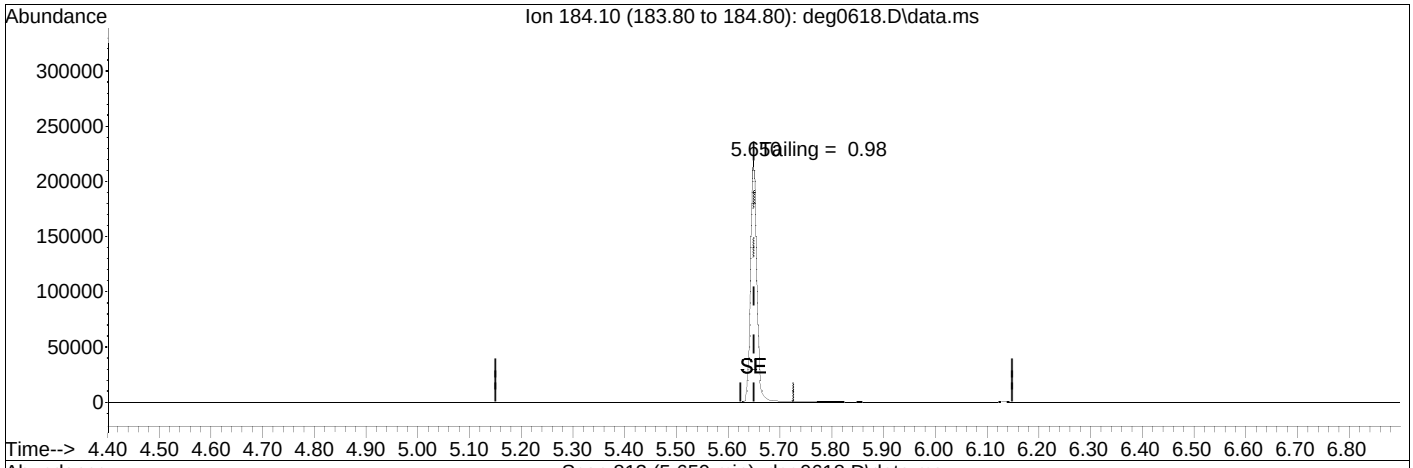
Spectrum Information: Average of 5.045 to 5.051 min.

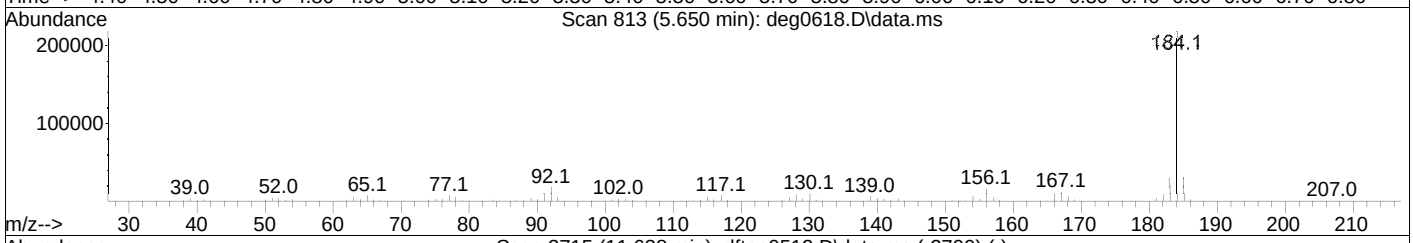
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.3	16689	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	15792	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	48.0	19401	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	40448	PASS
199	198	5	9	6.7	2701	PASS
275	198	10	60	29.4	11899	PASS
365	198	1	100	4.0	1601	PASS
441	442	0.01	24	19.9	7737	PASS
442	198	50	100	96.3	38952	PASS
443	442	15	24	19.0	7407	PASS

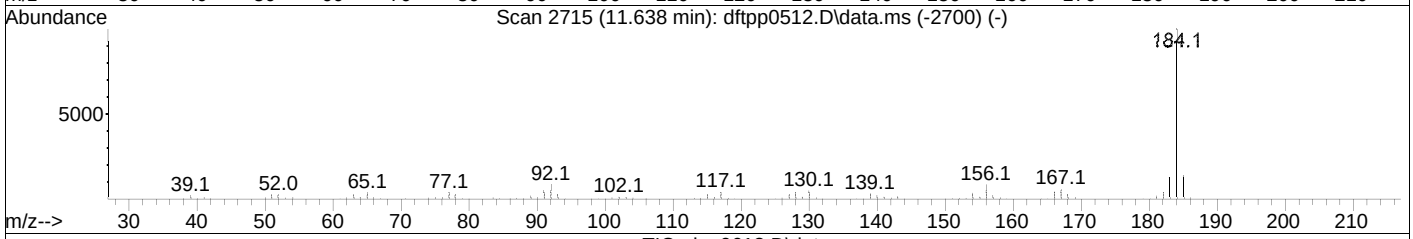
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : deg0618.D
Acq On : 18 Jun 2024 06:57 am
Operator : SV120:jjw
Sample : WG1935718-4,32,, dftpp SV120 lot#10809
Misc : WG1935718,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 18 07:10:19 2024
Quant Method : I:\8270SIM\sv120\240618RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0618.D\data.ms

(3) benzidine (T)

5.650min (-0.000) 17.53

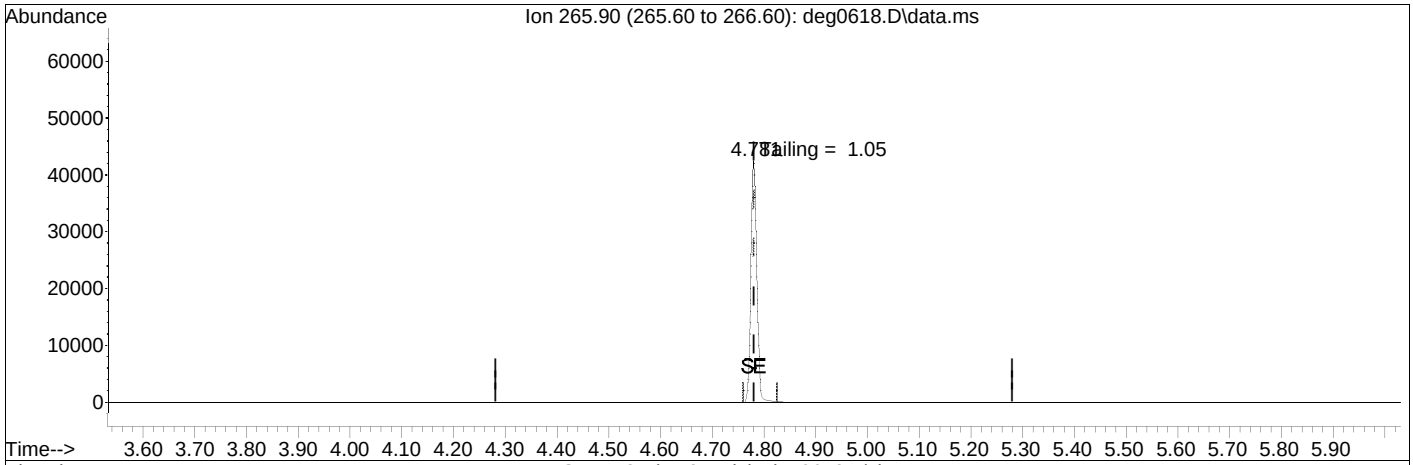
response 178419

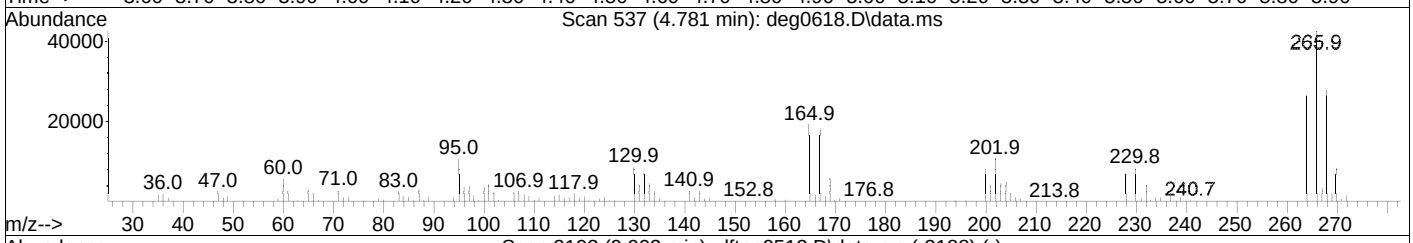
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

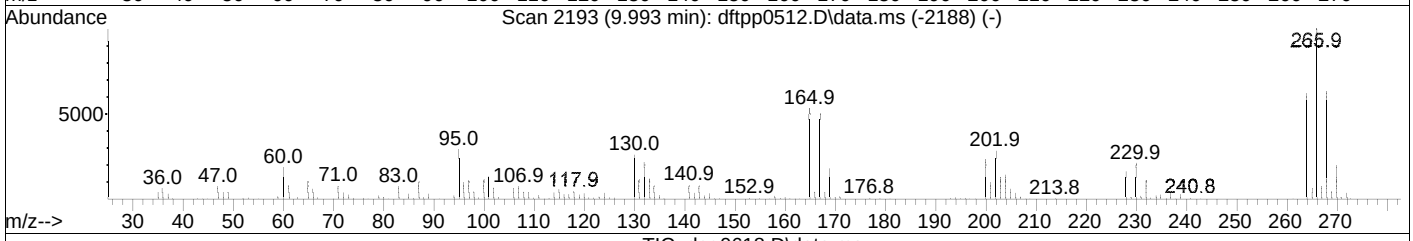
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : deg0618.D
Acq On : 18 Jun 2024 06:57 am
Operator : SV120:jjw
Sample : WG1935718-5,32,, dftpp SV120 lot#10809
Misc : WG1935718,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 18 07:10:19 2024
Quant Method : I:\8270SIM\sv120\240618RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0618.D\data.ms

(1) pentachlorophenol (T)

4.781min (-0.000) 15.18

response 31882

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/17/24 07:04		
Lab File ID	: CCV0617	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935125-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	60	0
2-Fluorophenol	1.189	1.093	.05	8.1	20	52	0
Phenol-d6	1.429	1.329	.05	7	20	52	0
Bis(2-chloroethyl)ether	1.263	1.184	.05	6.3	20	56	0
n-nitrosodi-n-propylamine	0.866	0.857	.05	1	20	55	0
Hexachloroethane	0.572	0.533	.05	6.8	20	54	0
Nitrobenzene-d5	1.273	1.266	.05	0.5	20	56	0
Naphthalene-d8	1	1	.05	0	20	62	0
Naphthalene	1.131	1.007	.05	11	20	56	0
Hexachlorobutadiene	0.216	0.201	.05	6.9	20	56	0
2-Methylnaphthalene	0.705	0.683	.05	3.1	20	57	0
1-Methylnaphthalene	0.664	0.627	.05	5.6	20	57	0
2-Fluorobiphenyl	0.851	0.808	.05	5.1	20	58	0
2-Chloronaphthalene	0.721	0.695	.05	3.6	20	58	0
2,6-Dinitrotoluene	1000	974.946	.05	2.5	20	62	0
Acenaphthylene	1.061	1.096	.05	-3.3	20	58	0
Acenaphthene-d10	1	1	.05	0	20	68	0
Acenaphthene	1.372	1.275	.05	7.1	20	62	0
2,4-Dinitrotoluene	1000	943.166	.05	5.7	20	65	0
Fluorene	1.479	1.423	.05	3.8	20	63	0
2,4,6-Tribromophenol	1000	944.525	.05	5.5	20	64	0
Phenanthrene-d10	1	1	.05	0	20	77	0
4,6-Dinitro-o-cresol	1000	882.936	.05	11.7	20	67	0
Hexachlorobenzene	0.288	0.255	.05	11.5	20	66	0
Pentachlorophenol	1000	842.938	.05	15.7	20	66	0
Phenanthrene	1.125	1.019	.05	9.4	20	65	0
Anthracene	1.111	1.034	.05	6.9	20	67	0
Fluoranthene	1.22	1.213	.05	0.6	20	73	0
Pyrene	1.265	1.266	.05	-0.1	20	73	0
4-Terphenyl-d14	0.814	0.802	.05	1.5	20	76	0
Chrysene-d12	1	1	.05	0	20	94	0
Benzo[a]anthracene	1000	866.195	.05	13.4	20	78	0
3,3'-Dichlorobenzene	0.533	0.488	.05	8.4	20	78	0
Chrysene	1.45	1.279	.05	11.8	20	80	0
Bis(2-ethylhexyl)phthalate	1000	813.73	.05	18.6	20	81	0
Perylene-d12	1	1	.05	0	20	102	0
Benzo[b]fluoranthene	1.323	1.259	.05	4.8	20	86	0
Benzo[k]fluoranthene	1.259	1.174	.05	6.8	20	85	0
Benzo[a]pyrene	1.09	1.073	.05	1.6	20	87	0
Indeno[1,2,3-cd]pyrene	1.027	1.031	.05	-0.4	20	94	0
Dibenzo[a,h]anthracene	0.983	1.019	.05	-3.7	20	93	0
Benzo[g,h,i]perylene	1.045	1.003	.05	4	20	91	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 06/18/24 07:13		
Lab File ID	: CCV0618	**Init. Calib. Date(s)**	: 05/21/24	05/22/24	
Sample No	: WG1935718-3	**Init. Calib. Times**	: 10:37	13:32	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	58	0
2-Fluorophenol	1.189	1.097	.05	7.7	20	50	0
Phenol-d6	1.429	1.327	.05	7.1	20	50	0
Bis(2-chloroethyl)ether	1.263	1.182	.05	6.4	20	53	0
n-nitrosodi-n-propylamine	0.866	0.837	.05	3.3	20	51	0
Hexachloroethane	0.572	0.528	.05	7.7	20	51	0
Nitrobenzene-d5	1.273	1.237	.05	2.8	20	52	0
Naphthalene-d8	1	1	.05	0	20	58	0
Naphthalene	1.131	1.001	.05	11.5	20	52	0
Hexachlorobutadiene	0.216	0.203	.05	6	20	53	0
2-Methylnaphthalene	0.705	0.675	.05	4.3	20	53	0
1-Methylnaphthalene	0.664	0.621	.05	6.5	20	53	0
2-Fluorobiphenyl	0.851	0.8	.05	6	20	54	0
2-Chloronaphthalene	0.721	0.676	.05	6.2	20	53	0
2,6-Dinitrotoluene	1000	928.032	.05	7.2	20	56	0
Acenaphthylene	1.061	1.057	.05	0.4	20	52	0
Acenaphthene-d10	1	1	.05	0	20	62	0
Acenaphthene	1.372	1.26	.05	8.2	20	56	0
2,4-Dinitrotoluene	1000	899.121	.05	10.1	20	56	0
Fluorene	1.479	1.376	.05	7	20	56	0
2,4,6-Tribromophenol	1000	928.277	.05	7.2	20	58	0
Phenanthrene-d10	1	1	.05	0	20	68	0
4,6-Dinitro-o-cresol	1000	879.713	.05	12	20	60	0
Hexachlorobenzene	0.288	0.256	.05	11.1	20	59	0
Pentachlorophenol	1000	851.412	.05	14.9	20	60	0
Phenanthrene	1.125	1.006	.05	10.6	20	57	0
Anthracene	1.111	1.013	.05	8.8	20	59	0
Fluoranthene	1.22	1.18	.05	3.3	20	63	0
Pyrene	1.265	1.24	.05	2	20	64	0
4-Terphenyl-d14	0.814	0.792	.05	2.7	20	67	0
Chrysene-d12	1	1	.05	0	20	84	0
Benzo[a]anthracene	1000	841.882	.05	15.8	20	68	0
3,3'-Dichlorobenzene	0.533	0.485	.05	9	20	69	0
Chrysene	1.45	1.279	.05	11.8	20	71	0
Bis(2-ethylhexyl)phthalate	1000	808.053	.05	19.2	20	72	0
Perylene-d12	1	1	.05	0	20	93	0
Benzo[b]fluoranthene	1.323	1.205	.05	8.9	20	76	0
Benzo[k]fluoranthene	1.259	1.187	.05	5.7	20	79	0
Benzo[a]pyrene	1.09	1.06	.05	2.8	20	79	0
Indeno[1,2,3-cd]pyrene	1.027	1.073	.05	-4.5	20	90	0
Dibenzo[a,h]anthracene	0.983	1.055	.05	-7.3	20	88	0
Benzo[g,h,i]perylene	1.045	1.033	.05	1.1	20	86	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : ccv0619.D
Acq On : 19 Jun 2024 09:00 am
Operator : SV120:jjw
Sample : WG1936395-3,32,, ICV10475 0617
Misc : WG1936395,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 15:07:08 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
2	s	2-Fluorophenol	1.189	1.098	7.7	64	0.00
3	s	Phenol-d6	1.429	1.327	7.1	63	0.00
4	T	Bis(2-chloroethyl)ether	1.263	1.193	5.5	68	0.00
5	T	n-nitrosodi-n-propylamine	0.866	0.849	2.0	66	0.00
6	t	Hexachloroethane	0.572	0.530	7.3	65	0.00
7	s	Nitrobenzene-d5	1.273	1.252	1.6	67	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	74	0.00
9	t	Naphthalene	1.131	1.009	10.8	67	0.00
10	t	Hexachlorobutadiene	0.216	0.206	4.6	69	0.00
11	t	2-Methylnaphthalene	0.705	0.680	3.5	69	0.00
12	t	1-Methylnaphthalene	0.664	0.622	6.3	68	0.00
13	s	2-Fluorobiphenyl	0.851	0.805	5.4	69	0.00
14	t	2-Chloronaphthalene	0.721	0.688	4.6	69	0.00
15	t	2,6-Dinitrotoluene	*1000.000	927.579	7.2	71	0.00
16	t	Acenaphthylene	1.061	1.063	-0.2	67	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
18	t	Acenaphthene	1.372	1.261	8.1	71	0.00
19	t	2,4-Dinitrotoluene	*1000.000	905.916	9.4	72	0.00
20	t	Fluorene	1.479	1.382	6.6	71	0.00
21	s	2,4,6-Tribromophenol	*1000.000	935.111	6.5	74	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	897.143	10.3	74	0.00
24	t	Hexachlorobenzene	0.288	0.264	8.3	74	0.00
25	t	Pentachlorophenol	*1000.000	874.196	12.6	75	0.00
26	t	Phenanthrene	1.125	1.024	9.0	72	0.00
27	t	Anthracene	1.111	1.010	9.1	72	0.00
28	t	Fluoranthene	1.220	1.187	2.7	78	0.00
29	t	Pyrene	1.265	1.234	2.5	78	0.00
30	s	4-Terphenyl-d14	0.814	0.784	3.7	82	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	95	0.00
32	t	Benzo[a]anthracene	*1000.000	842.340	15.8	77	0.00
33	t	3,3'-Dichlorobenzene	0.533	0.466	12.6	75	0.00
34	t	Chrysene	1.450	1.270	12.4	80	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	797.489	20.3#	80	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : ccv0619.D
Acq On : 19 Jun 2024 09:00 am
Operator : SV120:jjw
Sample : WG1936395-3,32,, ICV10475 0617
Misc : WG1936395,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 15:07:08 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	94	0.00
37	t	Benzo[b]fluoranthene	1.323	1.194	9.8	76	0.00
38	t	Benzo[k]fluoranthene	1.259	1.273	-1.1	86	0.00
39	t	Benzo[a]pyrene	1.090	1.074	1.5	81	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.027	0.989	3.7	84	0.00
41	t	Dibenzo[a,h]anthracene	0.983	0.999	-1.6	84	0.00
42	t	Benzo[g,h,i]perylene	1.045	0.962	7.9	81	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : ccv0619.D
Acq On : 19 Jun 2024 09:00 am
Operator : SV120:jjw
Sample : WG1936395-3,32,, ICV10475 0617
Misc : WG1936395,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 15:07:08 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.179	152	132040	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.840	136	488520	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.817	164	278744	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.662	188	573885	4000.000	ng/ml	0.00
31) Chrysene-d12	6.336	240	483963	4000.000	ng/ml	0.00
36) Perylene-d12	7.505	264	464613	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.607	112	36257	923.891	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.19%			
3) Phenol-d6	1.996	99	43793	928.350	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.42%			
7) Nitrobenzene-d5	2.457	82	41323	983.189	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.32%			
13) 2-Fluorobiphenyl	3.436	172	98330	946.623	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.66%			
21) 2,4,6-Tribromophenol	4.261	330	17694	935.111	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.76%			
30) 4-Terphenyl-d14	5.640	244	112546	963.854	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.19%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.046	93	39393	944.846	ng/ml	98
5) n-nitrosodi-n-propylamine	2.379	70	28020	980.067	ng/ml	100
6) Hexachloroethane	2.434	117	17511	926.949	ng/ml	98
9) Naphthalene	2.850	128	123209	892.262	ng/ml	99
10) Hexachlorobutadiene	2.923	225	25112	950.678	ng/ml	100
11) 2-Methylnaphthalene	3.229	142	83058	964.083	ng/ml	99
12) 1-Methylnaphthalene	3.284	142	75982	937.032	ng/ml	100
14) 2-Chloronaphthalene	3.501	162	84005	954.022	ng/ml	100
15) 2,6-Dinitrotoluene	3.697	165	20389	927.579	ng/ml	95
16) Acenaphthylene	3.733	152	129780	1001.472	ng/ml	100
18) Acenaphthene	3.833	153	87852	918.566	ng/ml	100
19) 2,4-Dinitrotoluene	3.925	165	28080	905.916	ng/ml#	78
20) Fluorene	4.123	166	96305	934.152	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.154	198	15070	897.143	ng/ml	97
24) Hexachlorobenzene	4.445	284	37882	916.131	ng/ml	98
25) Pentachlorophenol	4.556	266	20682	874.196	ng/ml	100
26) Phenanthrene	4.673	178	146943	910.639	ng/ml	100
27) Anthracene	4.704	178	144893	908.797	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : ccv0619.D
Acq On : 19 Jun 2024 09:00 am
Operator : SV120:jjw
Sample : WG1936395-3,32,, ICV10475 0617
Misc : WG1936395,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 15:07:08 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.391	202	170315	973.206	ng/ml	100
29) Pyrene	5.531	202	177096	975.904	ng/ml	100
32) Benzo[a]anthracene	6.328	228	156661	842.340	ng/ml	100
33) 3,3'-Dichlorobenzene	6.316	252	56390	874.374	ng/ml#	99
34) Chrysene	6.351	228	153700	876.153	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.368	149	93865	797.489	ng/ml	100
37) Benzo[b]fluoranthene	7.143	252	138713	902.913	ng/ml	97
38) Benzo[k]fluoranthene	7.169	252	147896	1011.203	ng/ml	97
39) Benzo[a]pyrene	7.439	252	124770	985.229	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.662	276	114897	963.351	ng/ml	100
41) Dibenzo[a,h]anthracene	8.697	278	115983M6	1015.550	ng/ml	
42) Benzo[g,h,i]perylene	8.988	276	111774	921.163	ng/ml	100

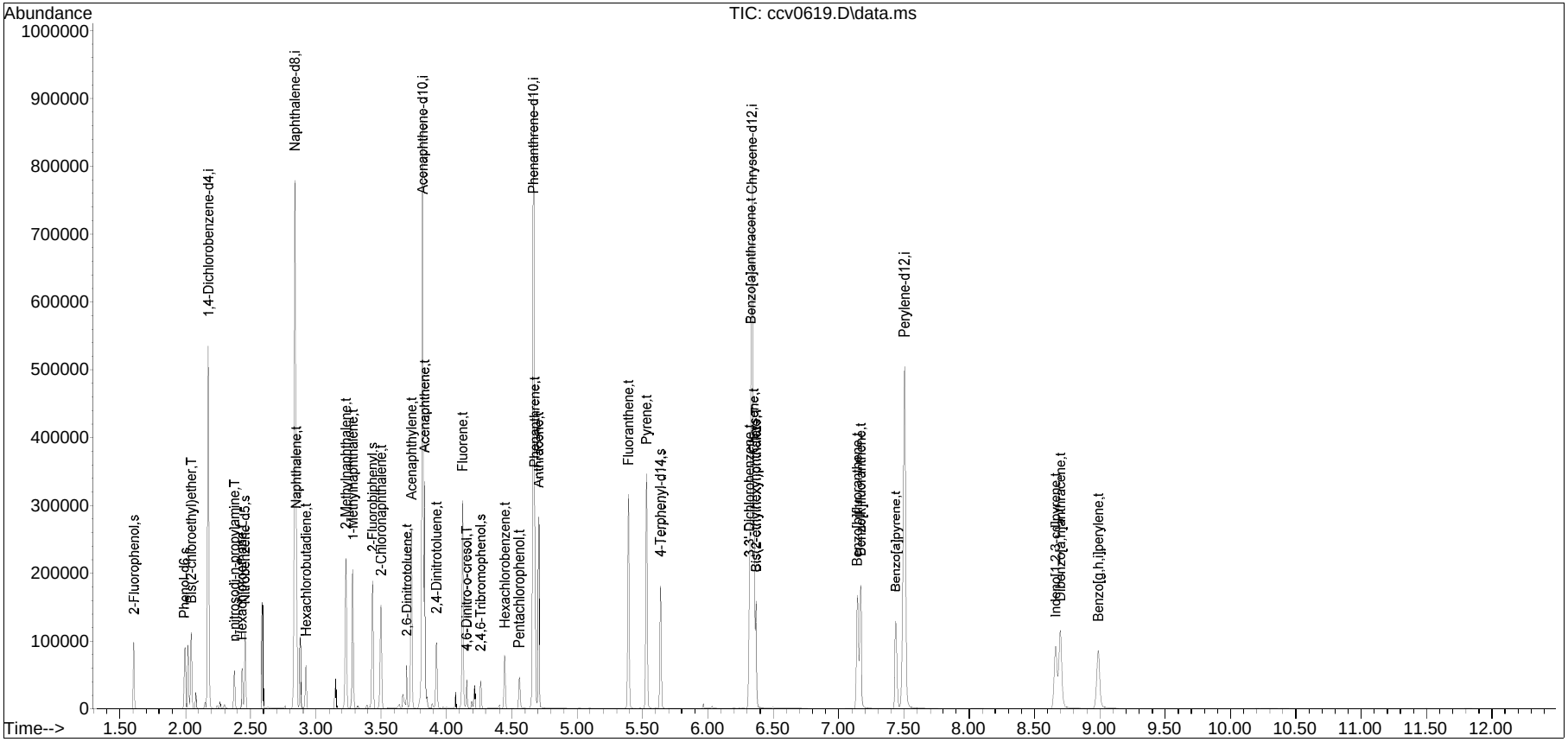
(#) = qualifier out of range (m) = manual integration (+) = signals summed

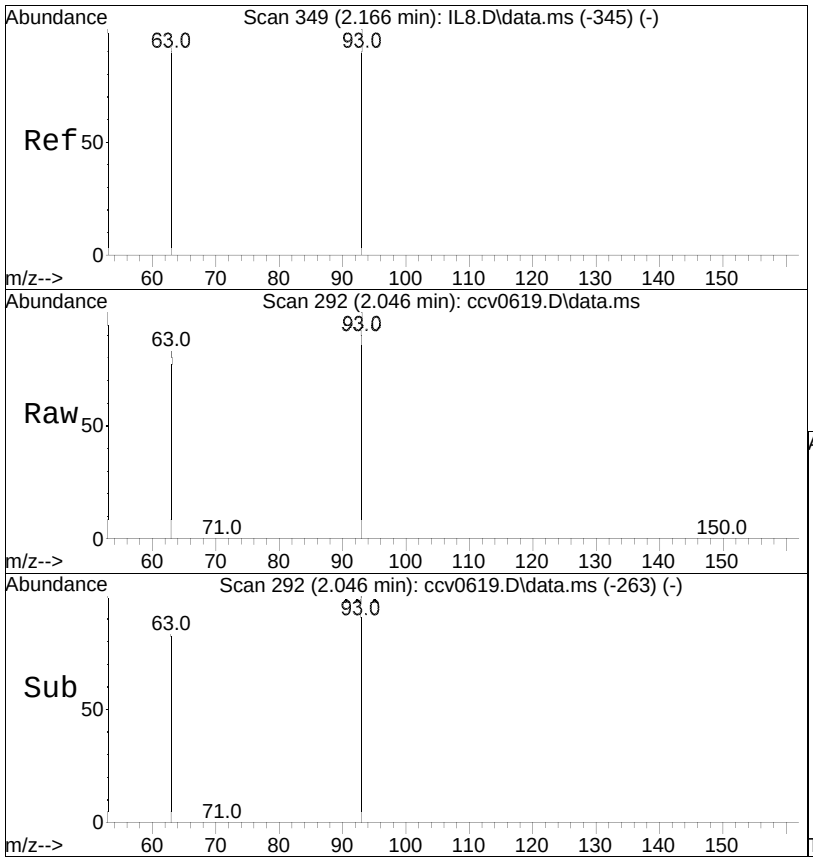
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : ccv0619.D
Acq On : 19 Jun 2024 09:00 am
Operator : SV120:jjw
Sample : WG1936395-3,32,, ICV10475 0617
Misc : WG1936395,,ical21160
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 19 15:07:08 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

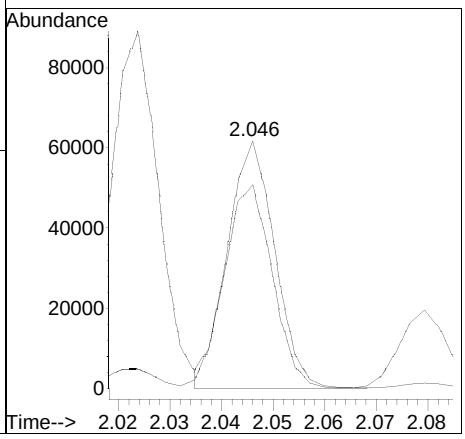


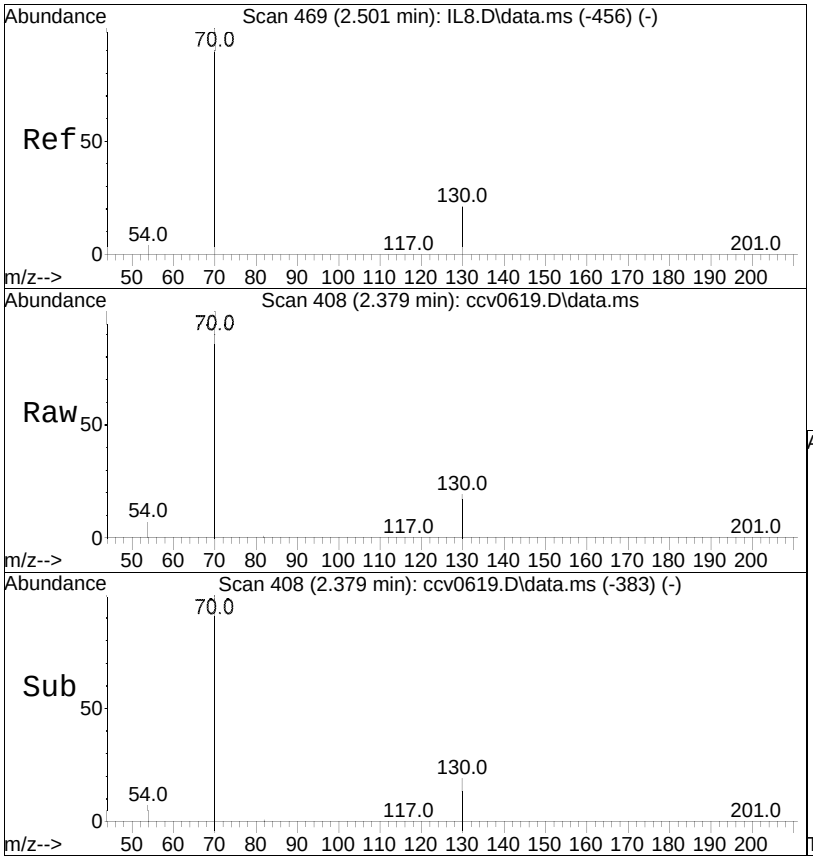


#4
Bis(2-chloroethyl)ether
Concen: 944.85 ng/ml
RT: 2.046 min Scan# 292
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion: 93 Resp: 39393

Ion	Ratio	Lower	Upper
93	100		
63	83.8	68.6	102.8

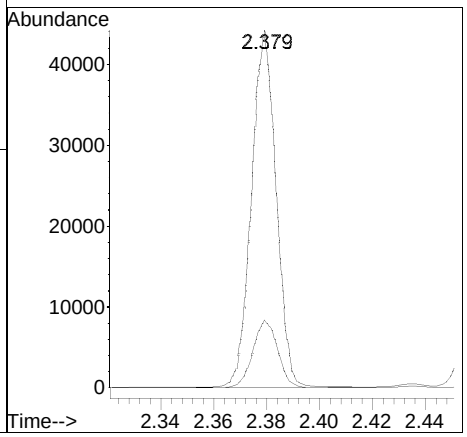


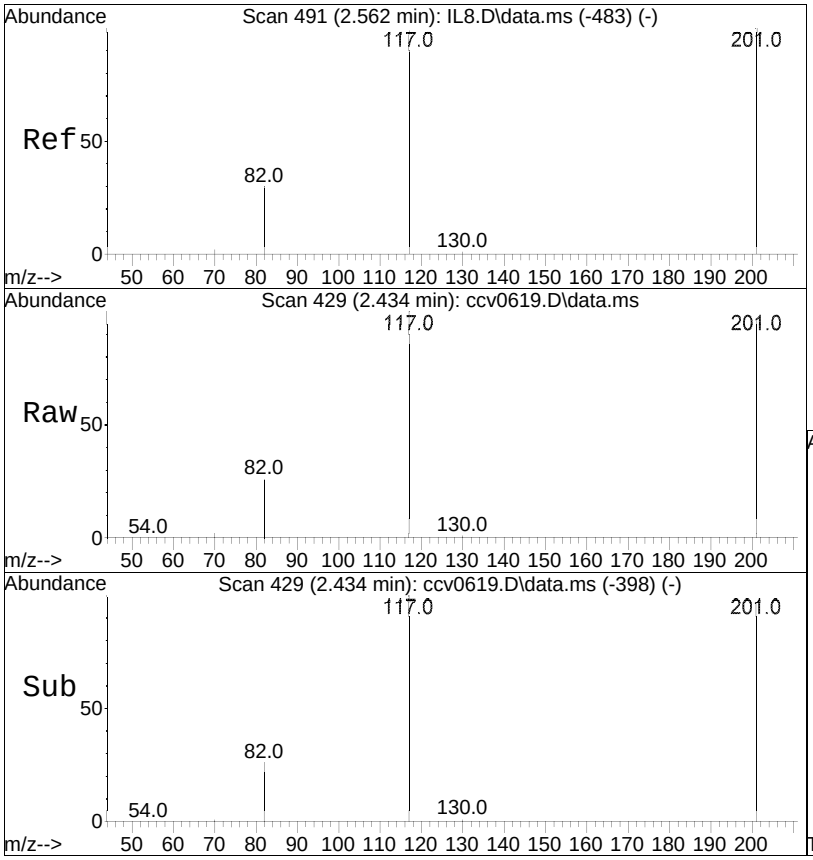


#5
n-nitrosodi-n-propylamine
Concen: 980.07 ng/ml
RT: 2.379 min Scan# 408
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion: 70 Resp: 28020

Ion	Ratio	Lower	Upper
70	100		
130	19.1	15.1	22.7

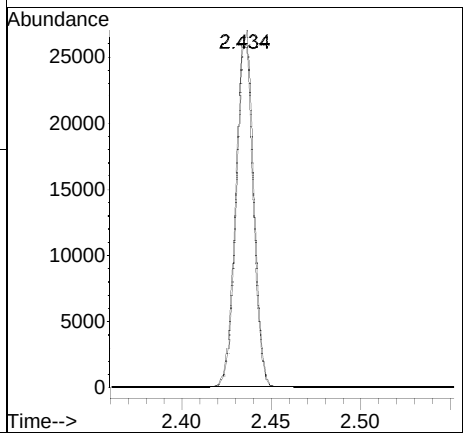


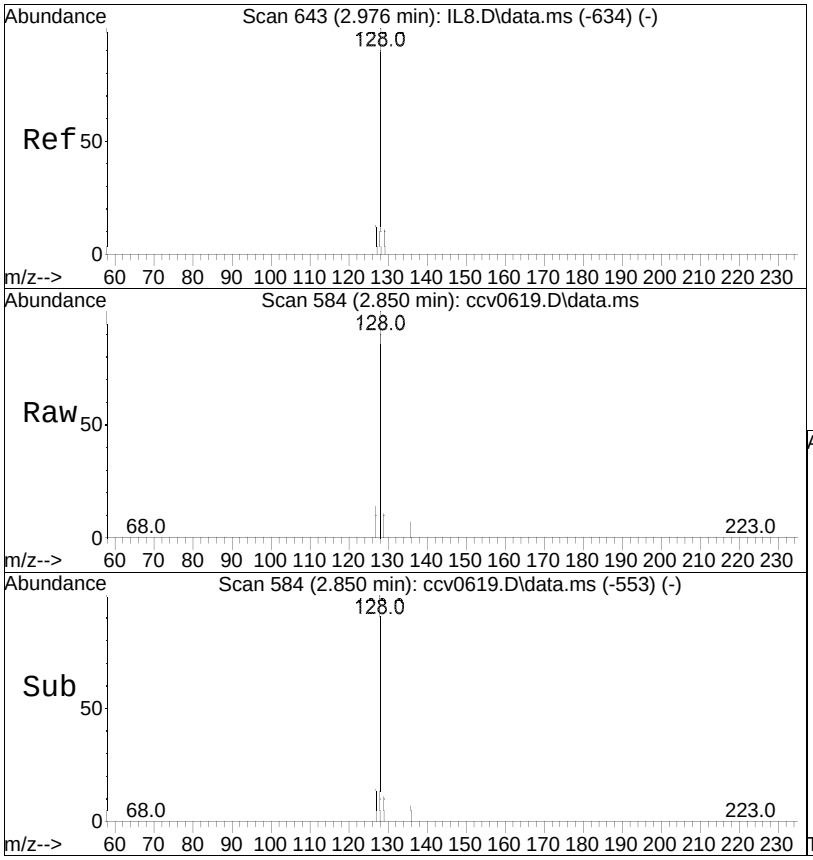


#6
Hexachloroethane
Concen: 926.95 ng/ml
RT: 2.434 min Scan# 429
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:117 Resp: 17511

Ion	Ratio	Lower	Upper
117	100		
201	101.0	79.4	119.2

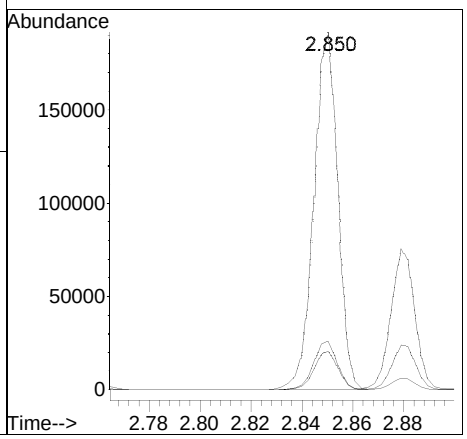


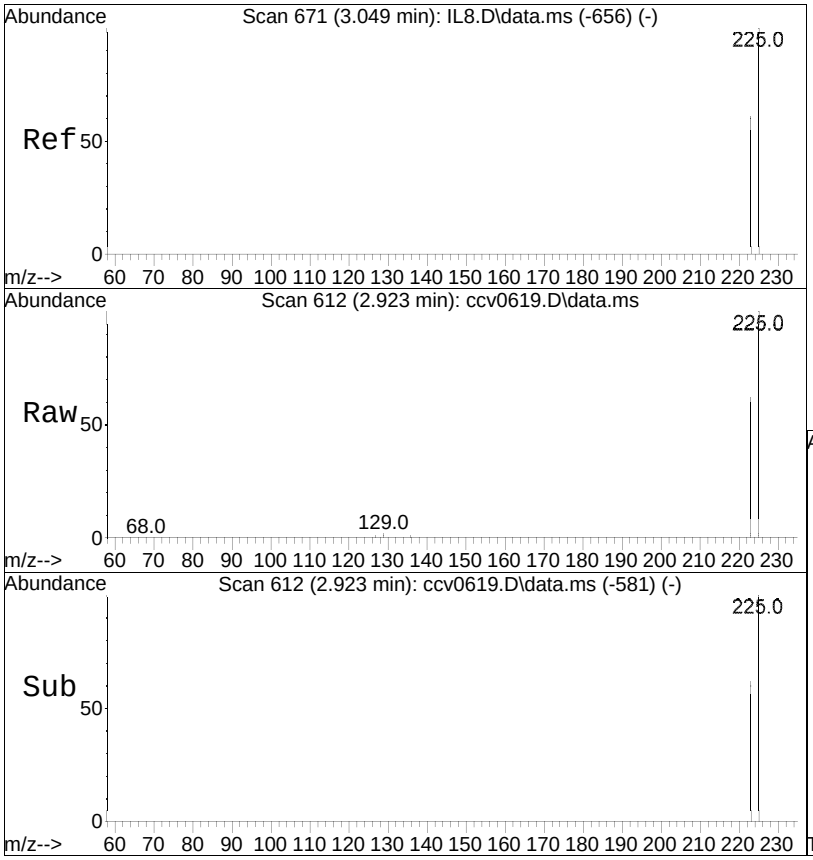


#9
Naphthalene
Concen: 892.26 ng/ml
RT: 2.850 min Scan# 584
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:128 Resp: 123209

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.8	11.3	16.9

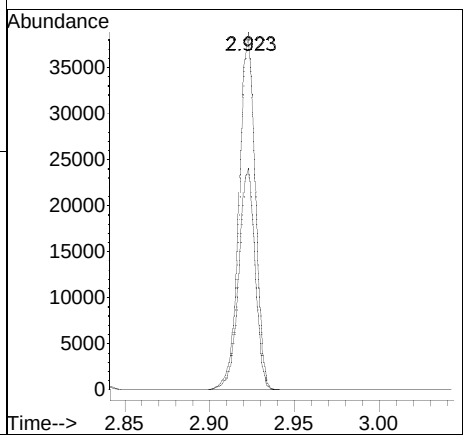


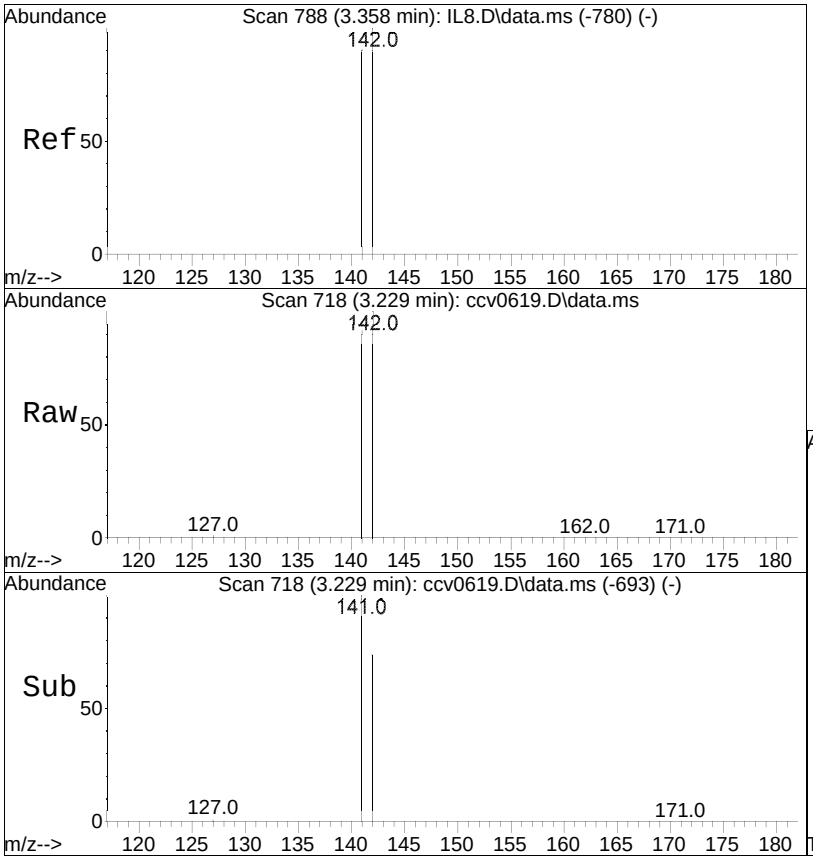


#10
Hexachlorobutadiene
Concen: 950.68 ng/ml
RT: 2.923 min Scan# 612
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:225 Resp: 25112

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

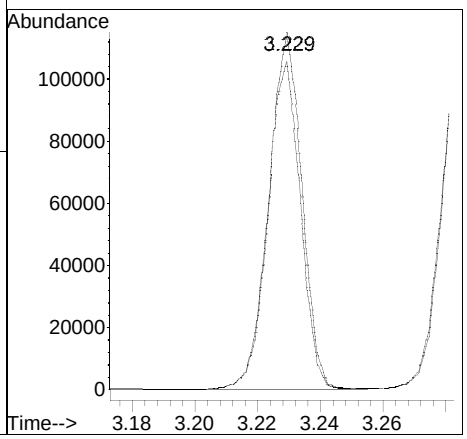


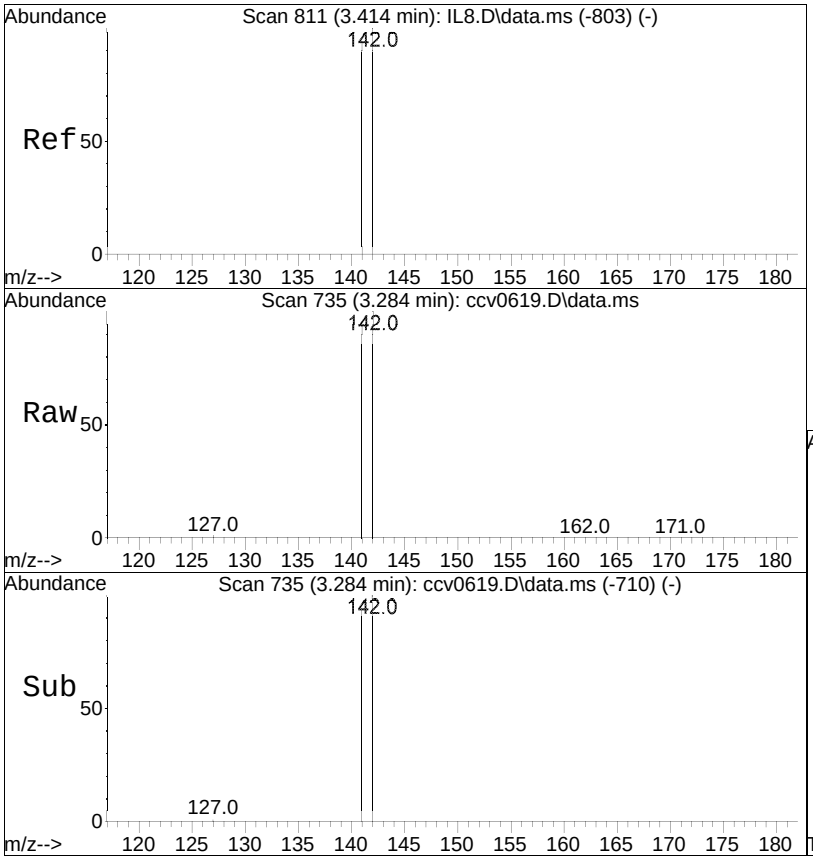


#11
2-Methylnaphthalene
Concen: 964.08 ng/ml
RT: 3.229 min Scan# 718
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:142 Resp: 83058

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.8	110.6

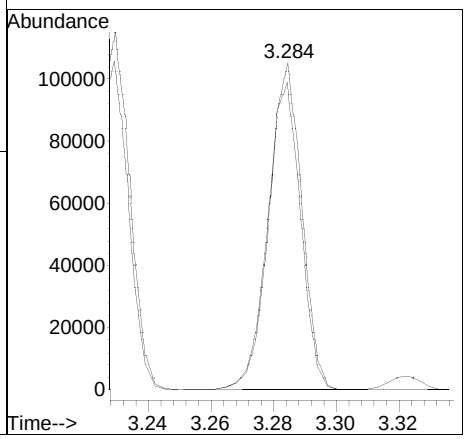


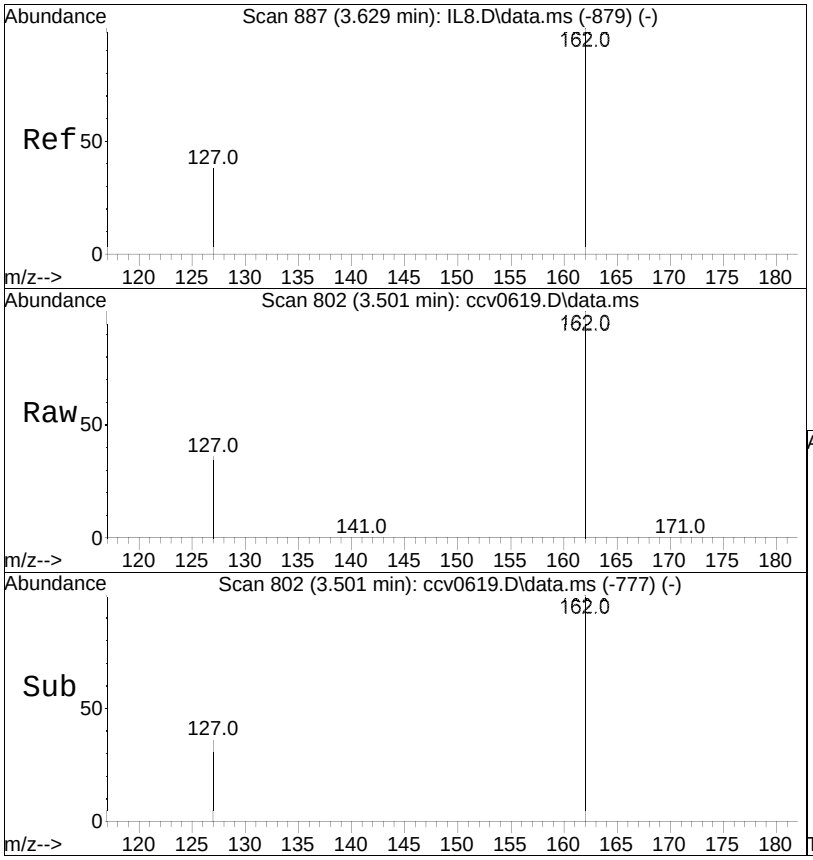


#12
1-Methylnaphthalene
Concen: 937.03 ng/ml
RT: 3.284 min Scan# 735
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:142 Resp: 75982

Ion	Ratio	Lower	Upper
142	100		
141	95.3	76.3	114.5

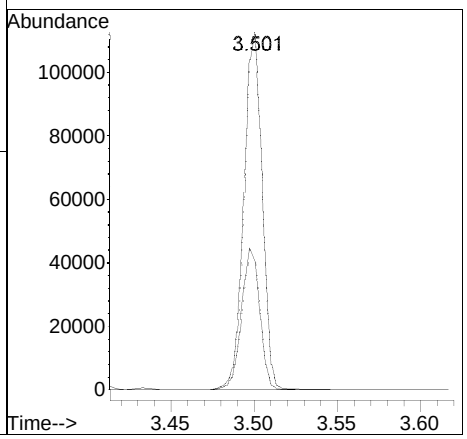


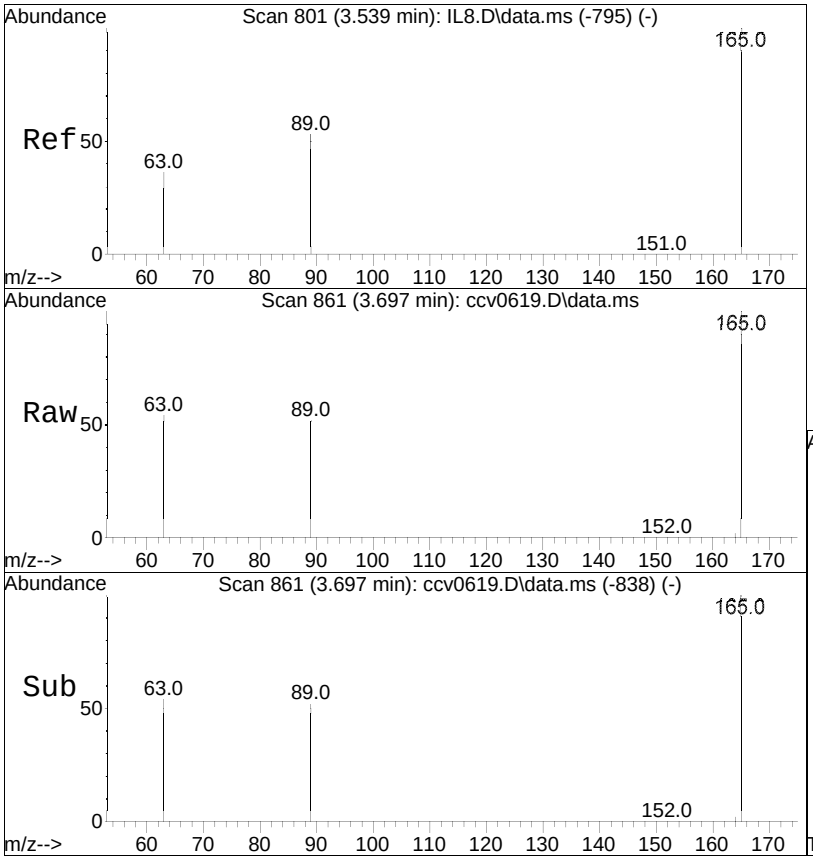


#14
2-Chloronaphthalene
Concen: 954.02 ng/ml
RT: 3.501 min Scan# 802
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:162 Resp: 84005

Ion	Ratio	Lower	Upper
162	100		
127	39.7	32.0	48.0

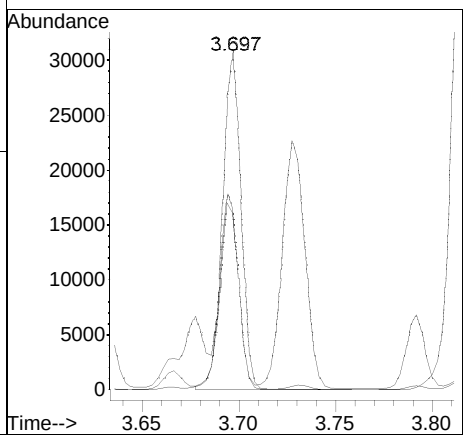


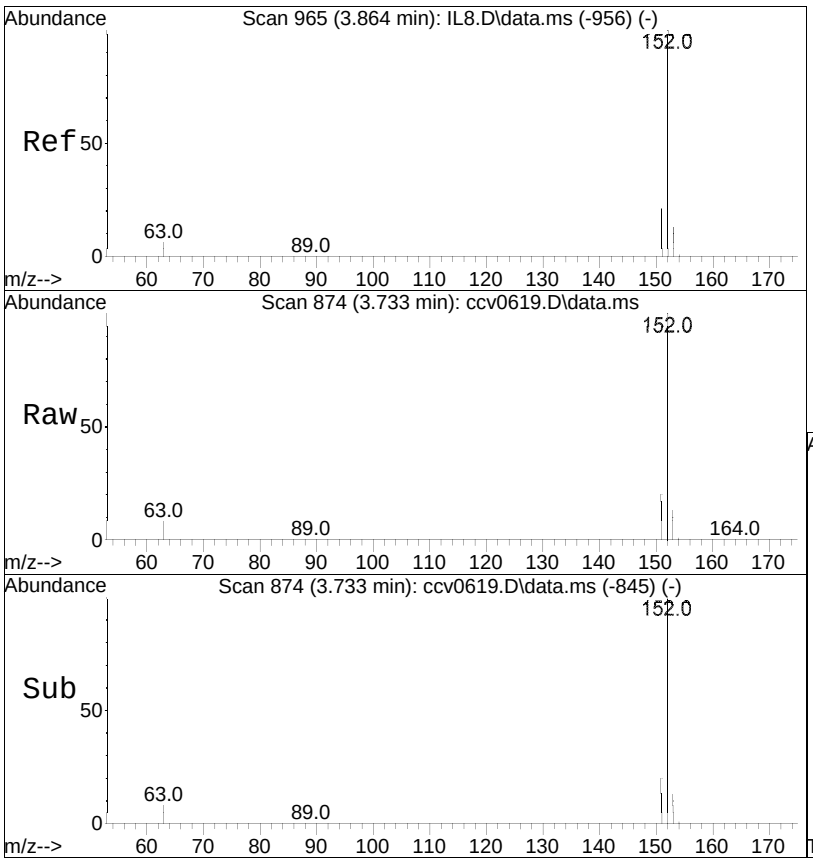


#15
2,6-Dinitrotoluene
Concen: 927.58 ng/ml
RT: 3.697 min Scan# 861
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:165 Resp: 20389

Ion	Ratio	Lower	Upper
165	100		
89	56.7	48.0	72.0
63	55.5	48.2	72.2

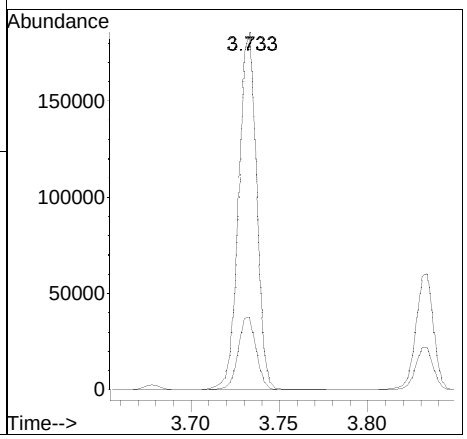


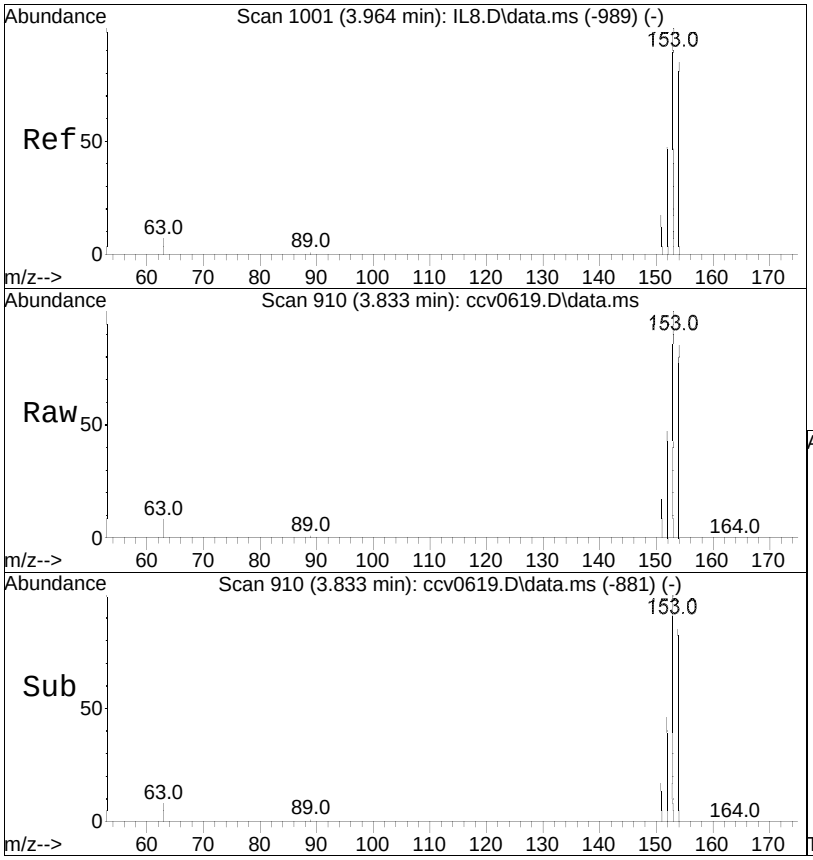


#16
Acenaphthylene
Concen: 1001.47 ng/ml
RT: 3.733 min Scan# 874
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:152 Resp: 129780

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7

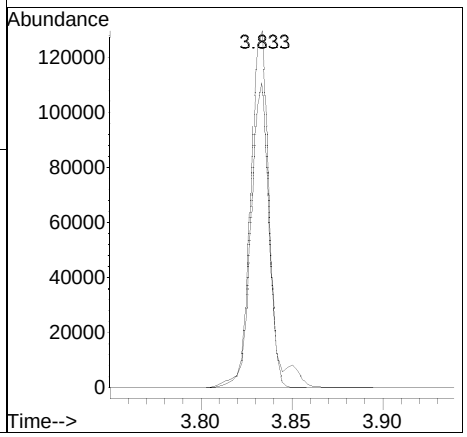


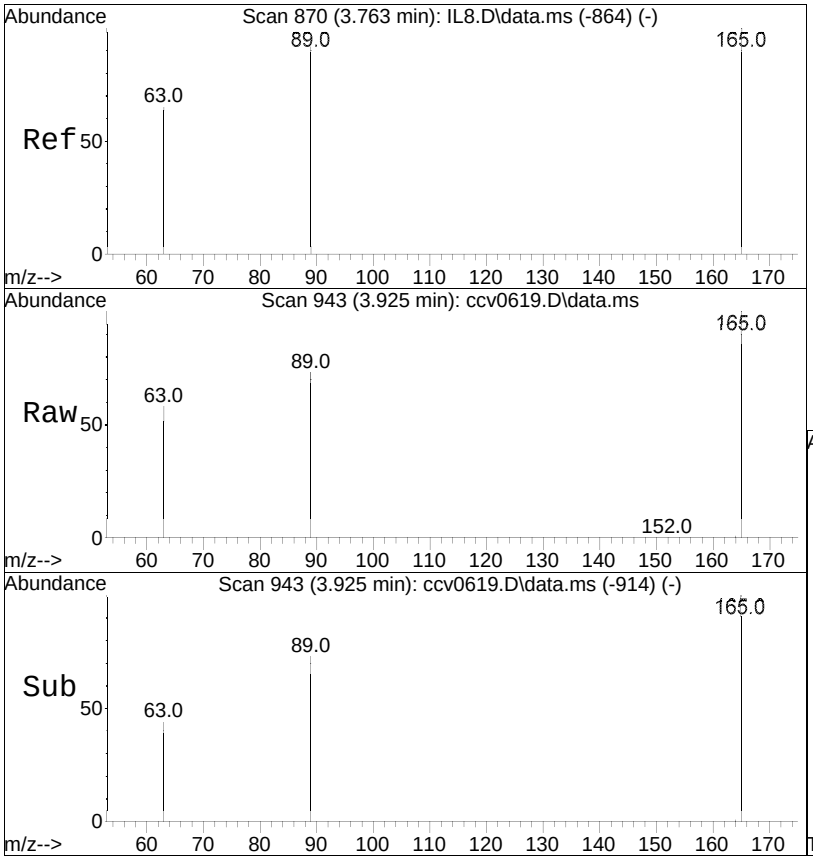


#18
Acenaphthene
Concen: 918.57 ng/ml
RT: 3.833 min Scan# 910
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:153 Resp: 87852

Ion	Ratio	Lower	Upper
153	100		
154	92.1	73.4	110.2

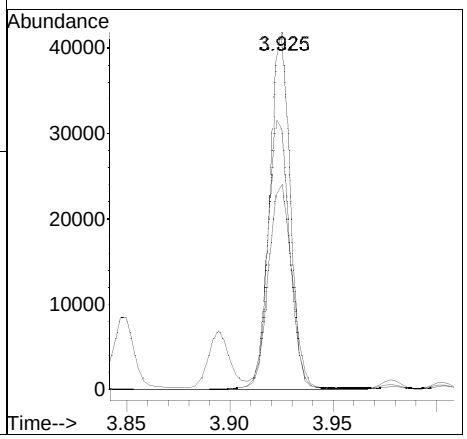


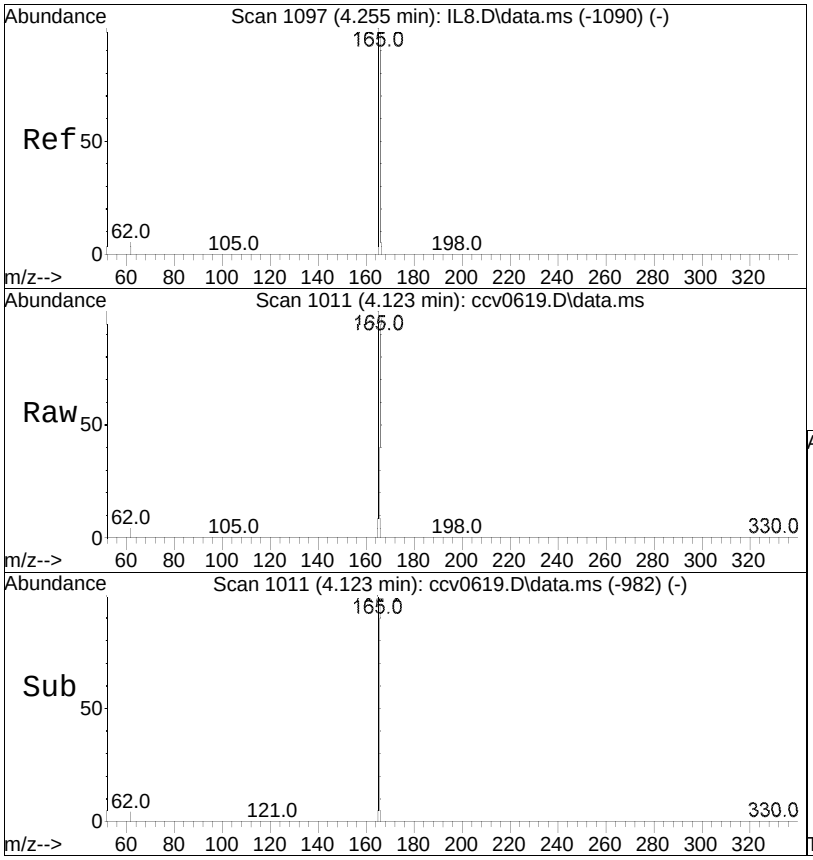


#19
2,4-Dinitrotoluene
Concen: 905.92 ng/ml
RT: 3.925 min Scan# 943
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:165 Resp: 28080

Ion	Ratio	Lower	Upper
165	100		
89	82.6	82.0	123.0
63	67.4	73.0	109.6#

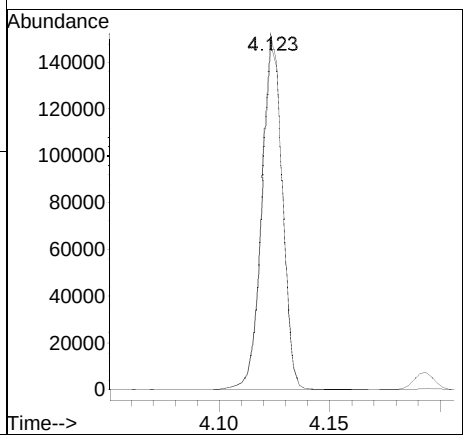


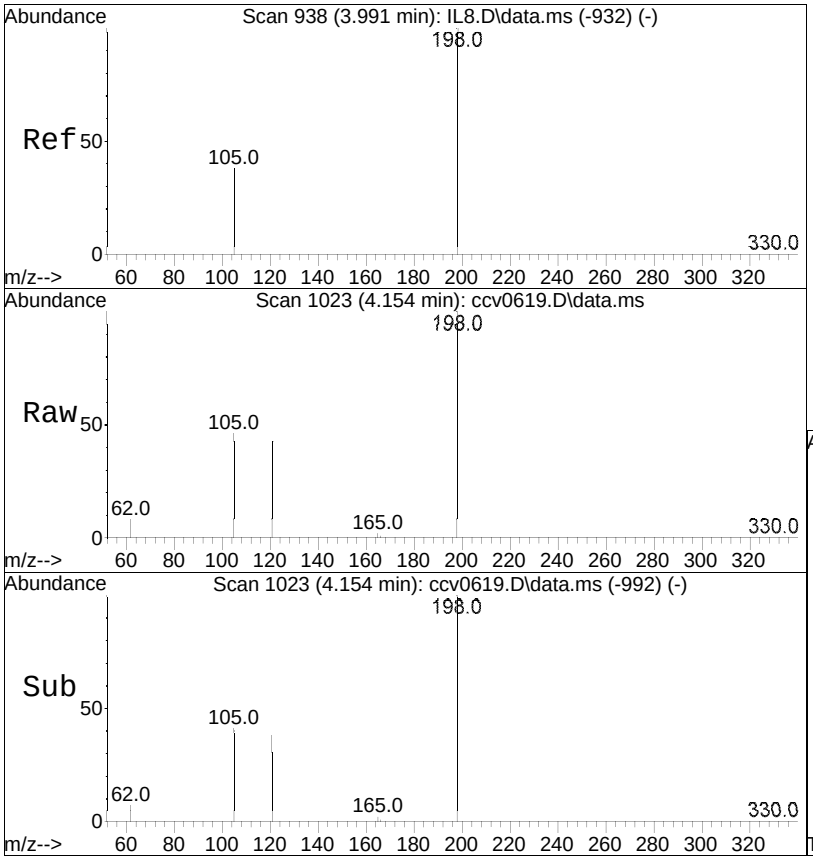


#20
Fluorene
Concen: 934.15 ng/ml
RT: 4.123 min Scan# 1011
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:166 Resp: 96305

Ion	Ratio	Lower	Upper
166	100		
165	102.7	81.9	122.9

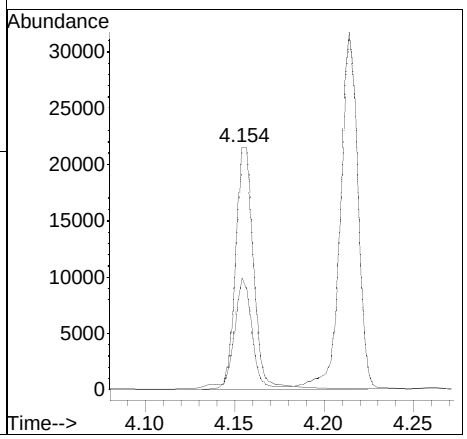


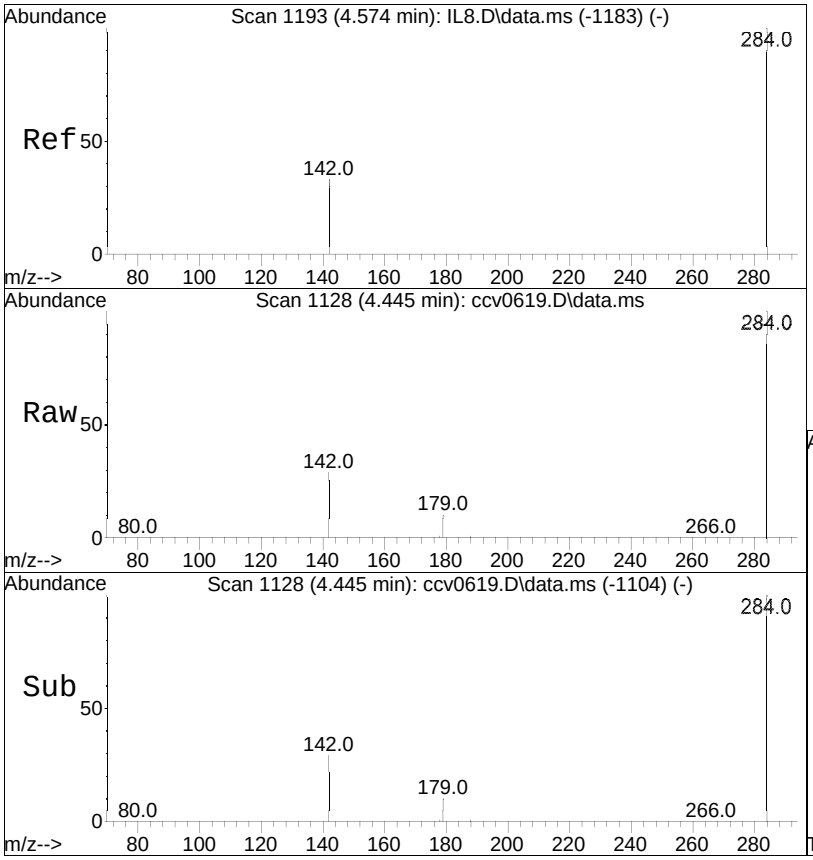


#23
4,6-Dinitro-o-cresol
Concen: 897.14 ng/ml
RT: 4.154 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:198 Resp: 15070

Ion	Ratio	Lower	Upper
198	100		
105	45.3	37.8	56.8

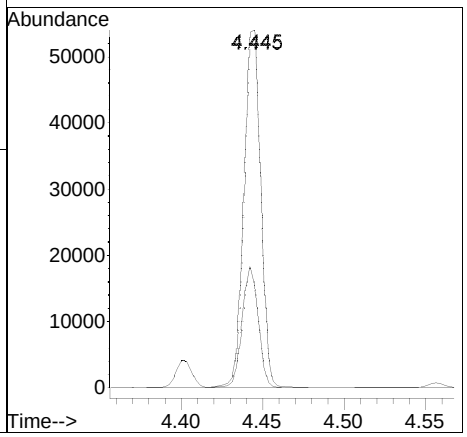


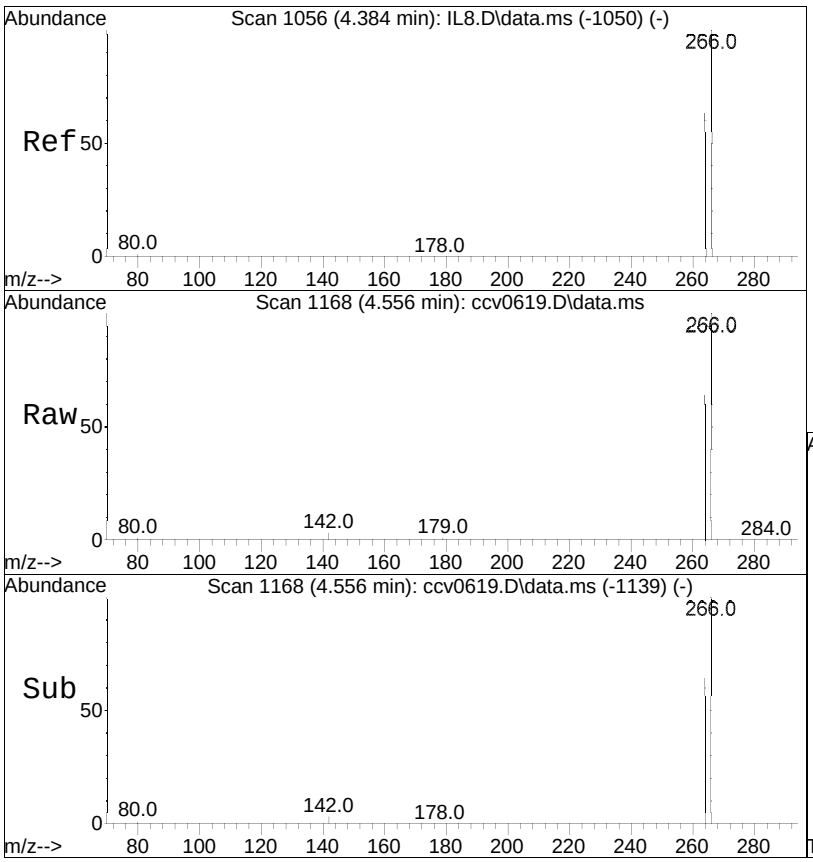


#24
Hexachlorobenzene
Concen: 916.13 ng/ml
RT: 4.445 min Scan# 1128
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:284 Resp: 37882

Ion	Ratio	Lower	Upper
284	100		
142	32.5	26.8	40.2

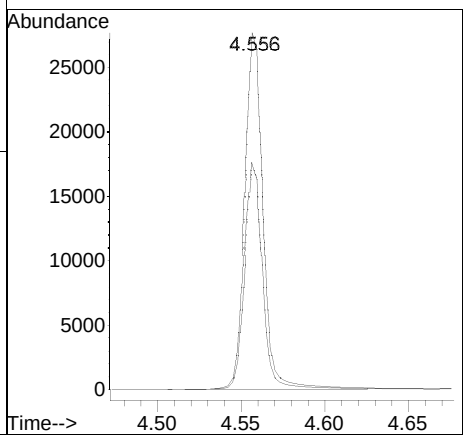


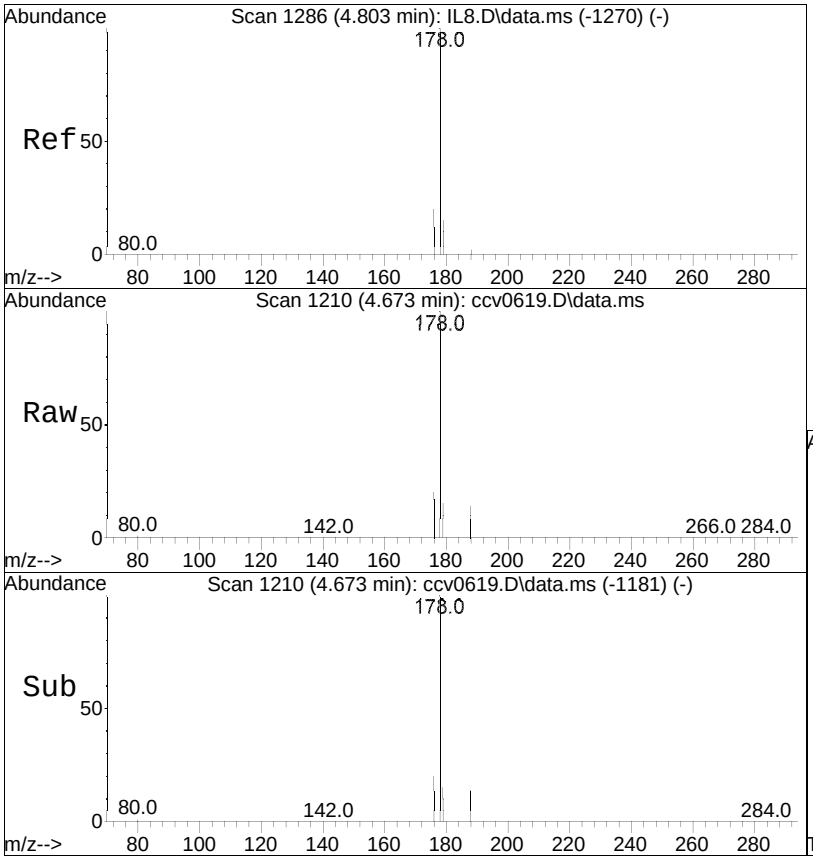


#25
Pentachlorophenol
Concen: 874.20 ng/ml
RT: 4.556 min Scan# 1168
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:266 Resp: 20682

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.2	75.2

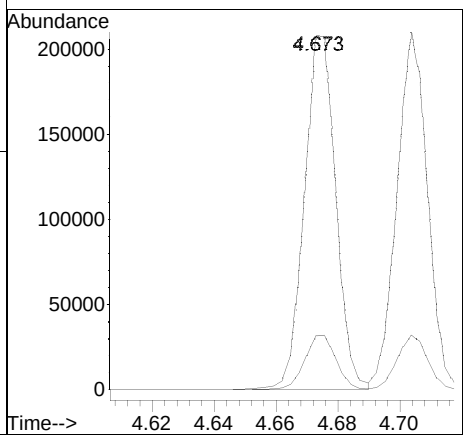


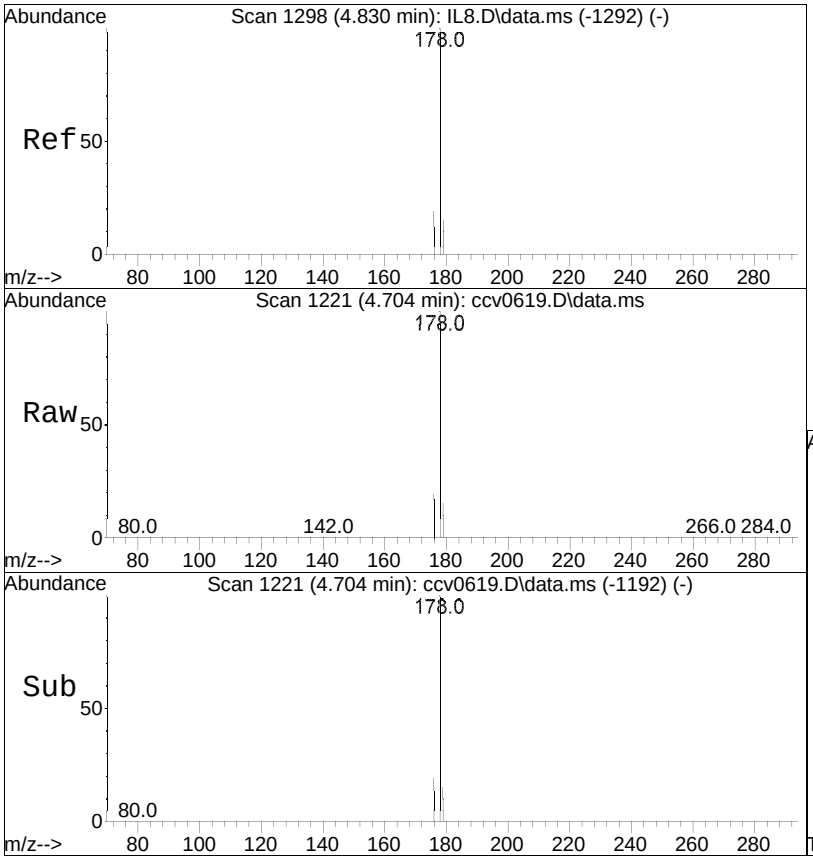


#26
Phenanthrene
Concen: 910.64 ng/ml
RT: 4.673 min Scan# 1210
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:178 Resp: 146943

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

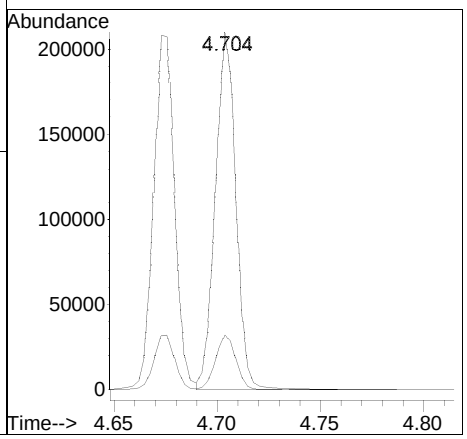


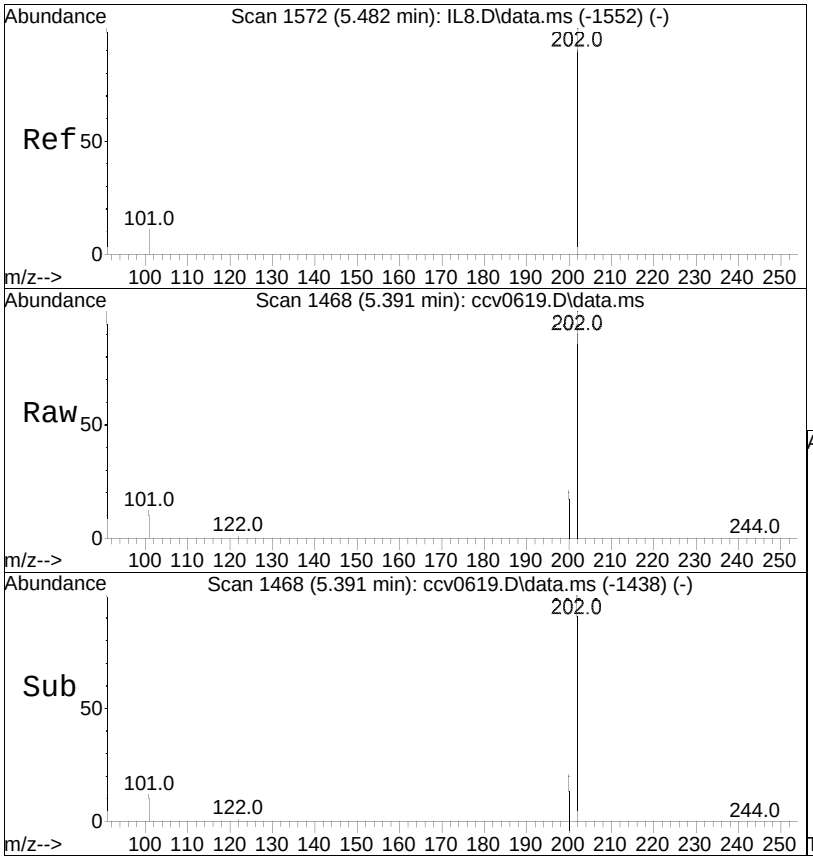


#27
Anthracene
Concen: 908.80 ng/ml
RT: 4.704 min Scan# 1221
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:178 Resp: 144893

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

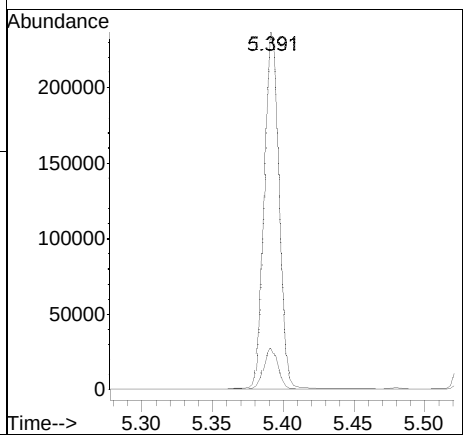


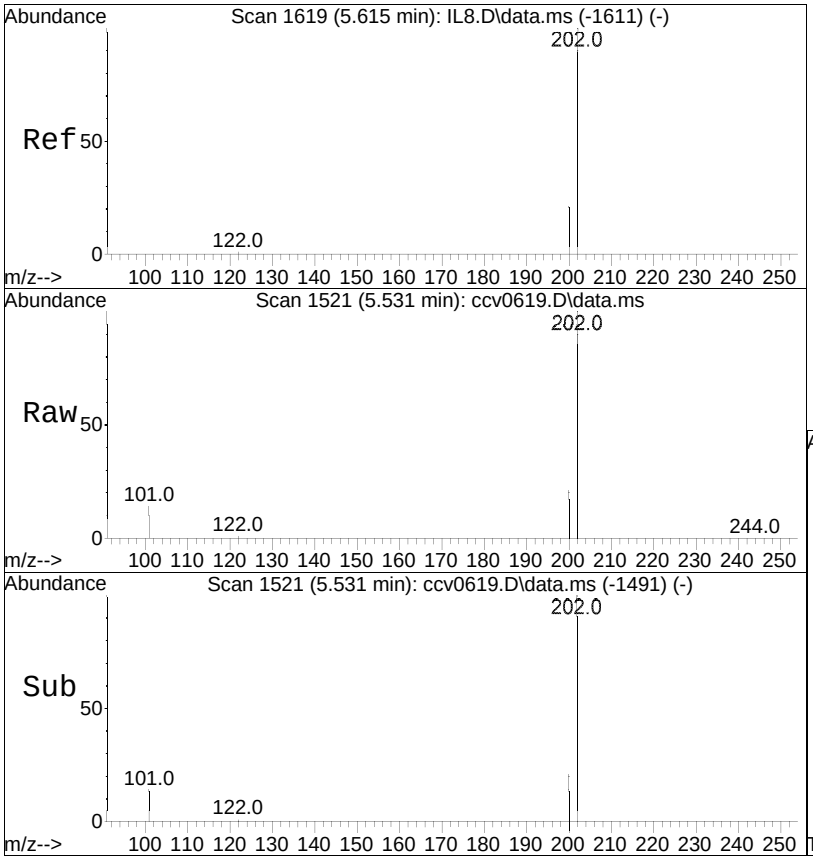


#28
Fluoranthene
Concen: 973.21 ng/ml
RT: 5.391 min Scan# 1468
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:202 Resp: 170315

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.0	13.6

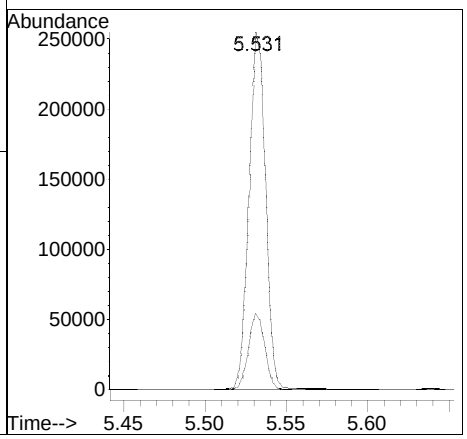


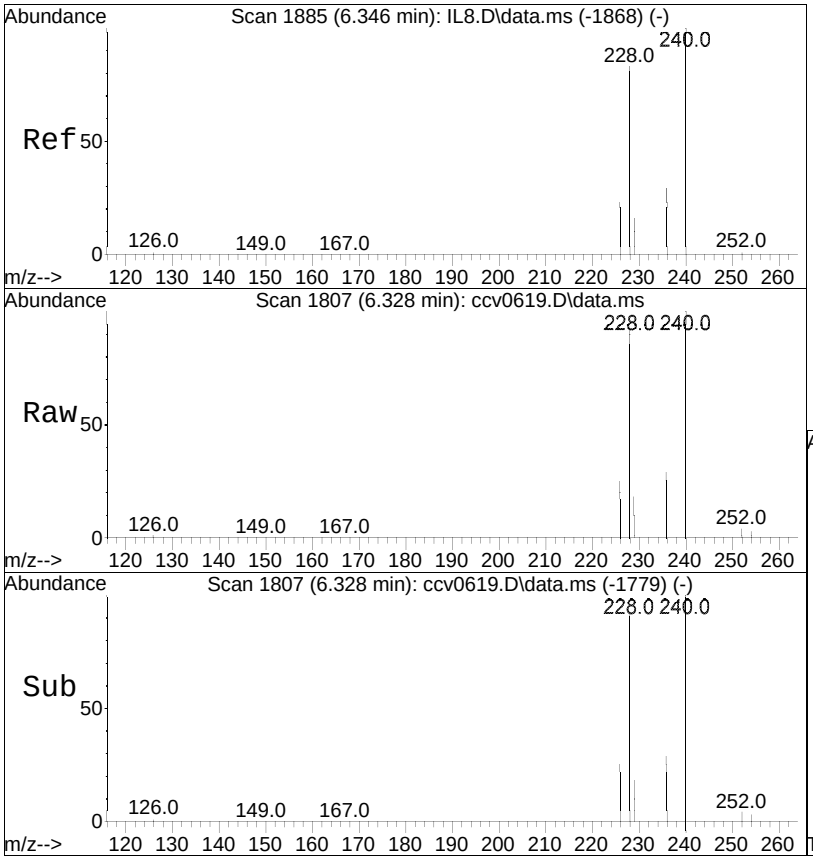


#29
Pyrene
Concen: 975.90 ng/ml
RT: 5.531 min Scan# 1521
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:202 Resp: 177096

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8

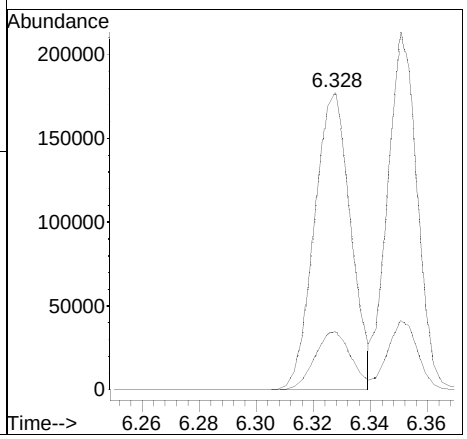


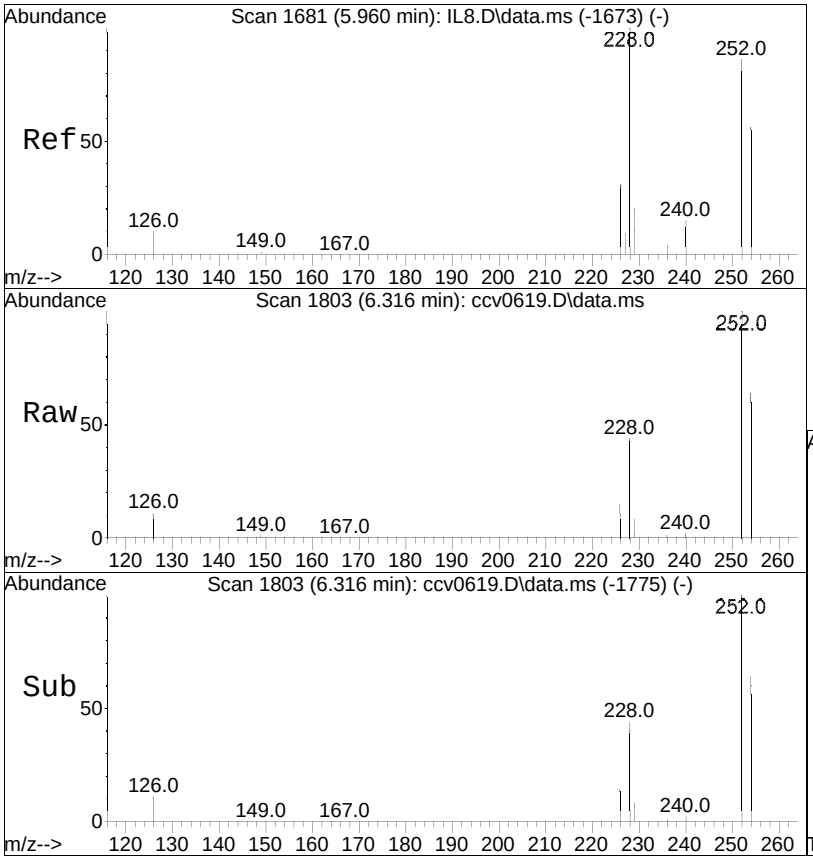


#32
Benzo[a]anthracene
Concen: 842.34 ng/ml
RT: 6.328 min Scan# 1807
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:228 Resp: 156661

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

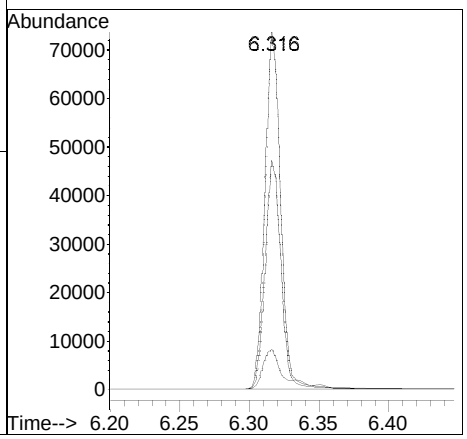


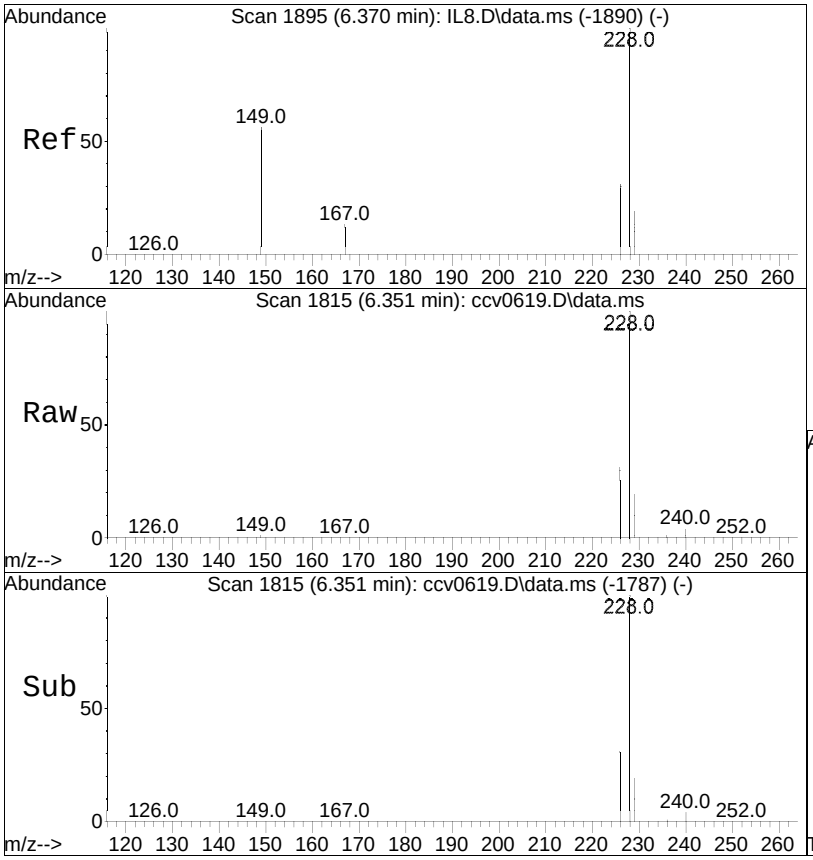


#33
3,3'-Dichlorobenzene
Concen: 874.37 ng/ml
RT: 6.316 min Scan# 1803
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:252 Resp: 56390

Ion	Ratio	Lower	Upper
252	100		
126	14.3	9.4	14.2#
254	64.6	51.4	77.2

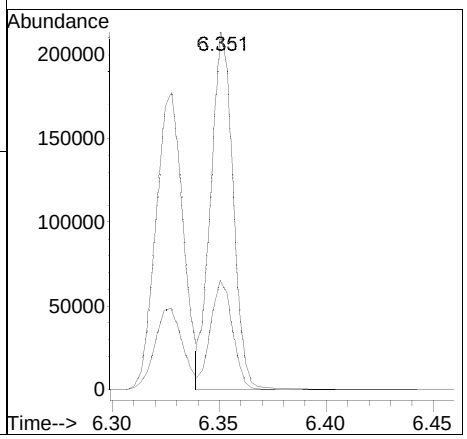


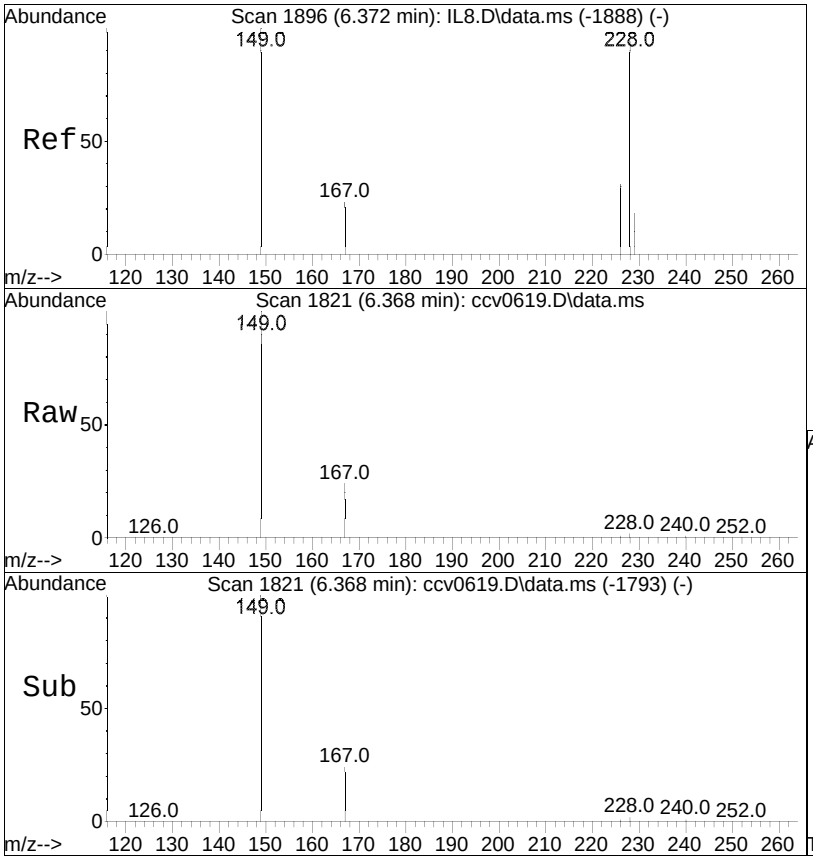


#34
Chrysene
Concen: 876.15 ng/ml
RT: 6.351 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:228 Resp: 153700

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

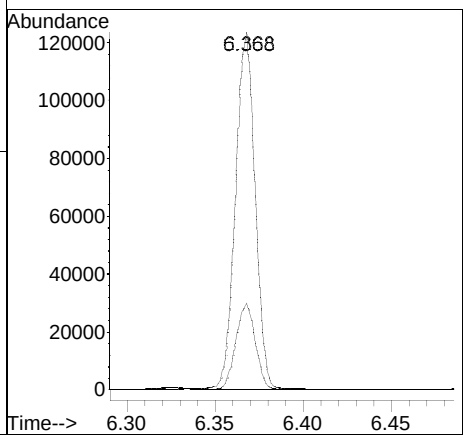


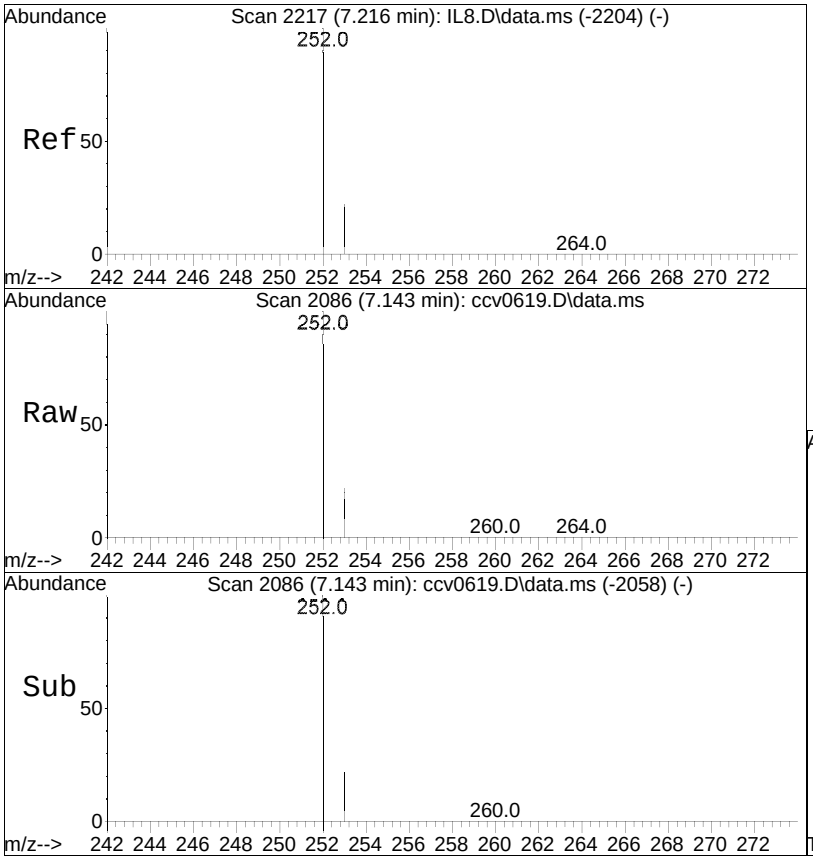


#35
Bis(2-ethylhexyl)phthalate
Concen: 797.49 ng/ml
RT: 6.368 min Scan# 1821
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:149 Resp: 93865

Ion	Ratio	Lower	Upper
149	100		
167	23.9	19.2	28.8

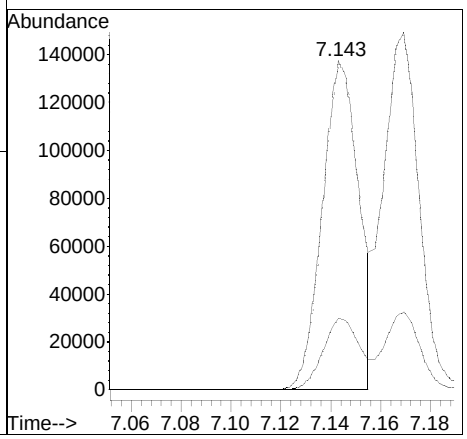


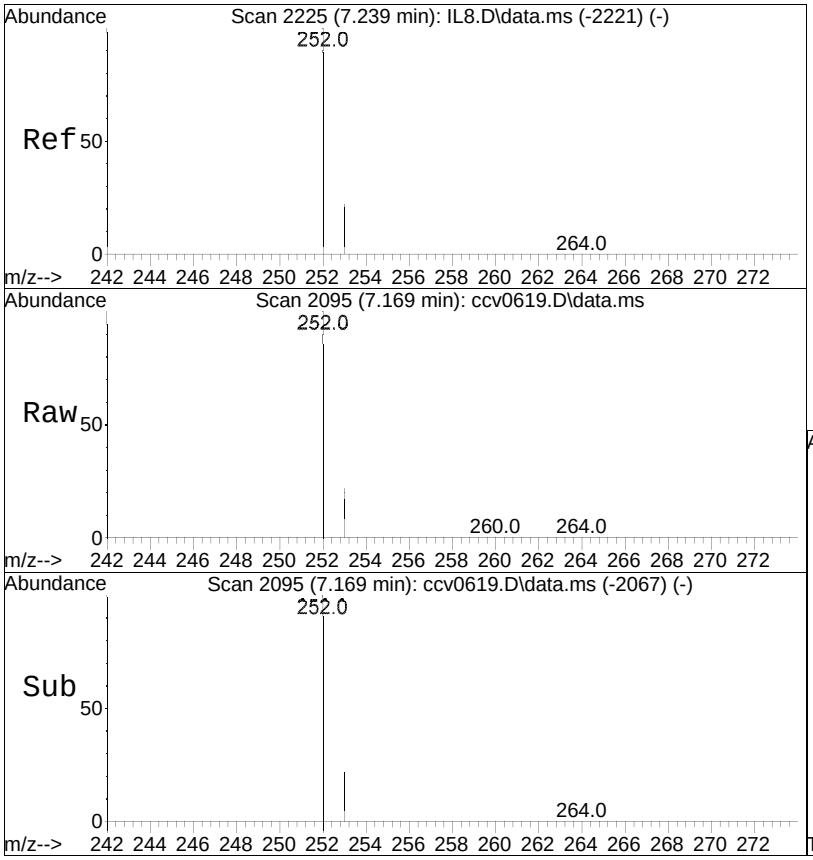


#37
Benzo[b]fluoranthene
Concen: 902.91 ng/ml
RT: 7.143 min Scan# 2086
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:252 Resp: 138713

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9

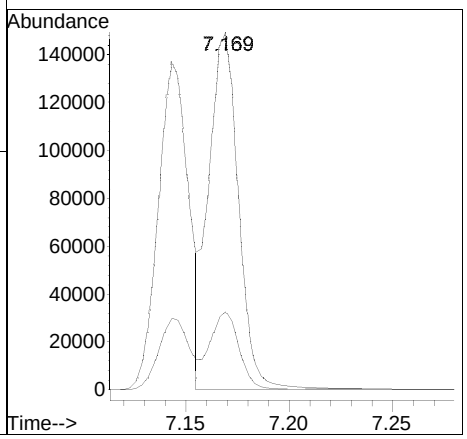


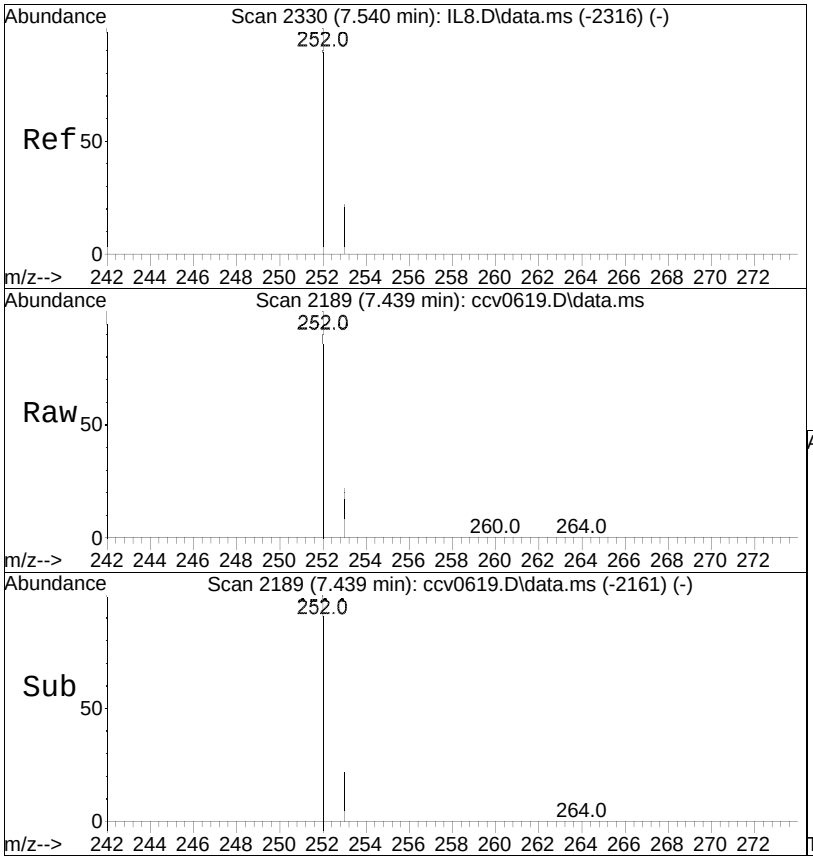


#38
Benzo[k]fluoranthene
Concen: 1011.20 ng/ml
RT: 7.169 min Scan# 2095
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:252 Resp: 147896

Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.5	26.3

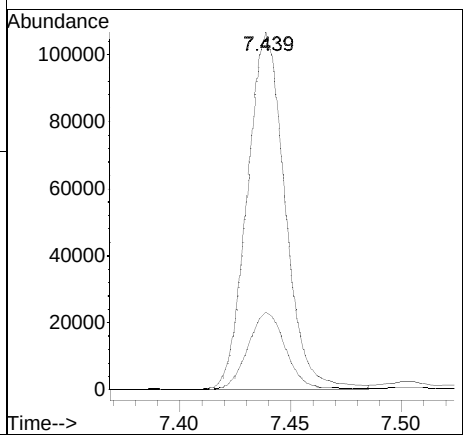


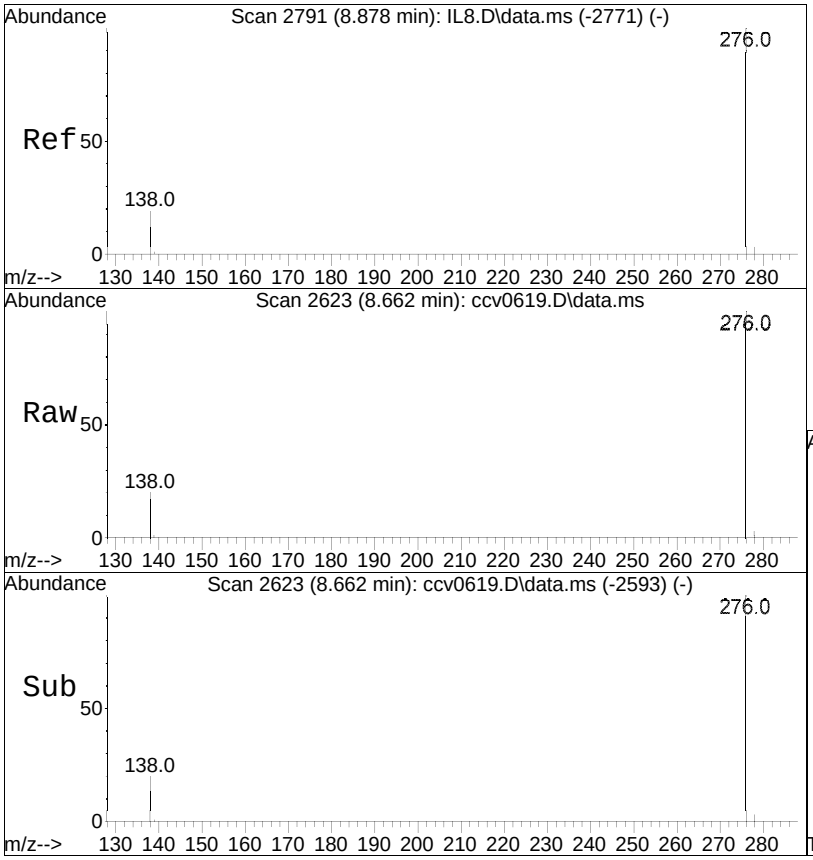


#39
Benzo[a]pyrene
Concen: 985.23 ng/ml
RT: 7.439 min Scan# 2189
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:252 Resp: 124770

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

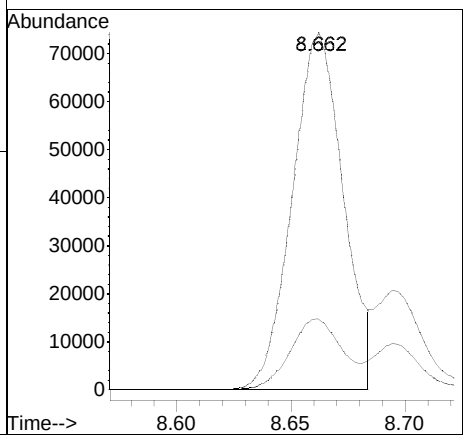


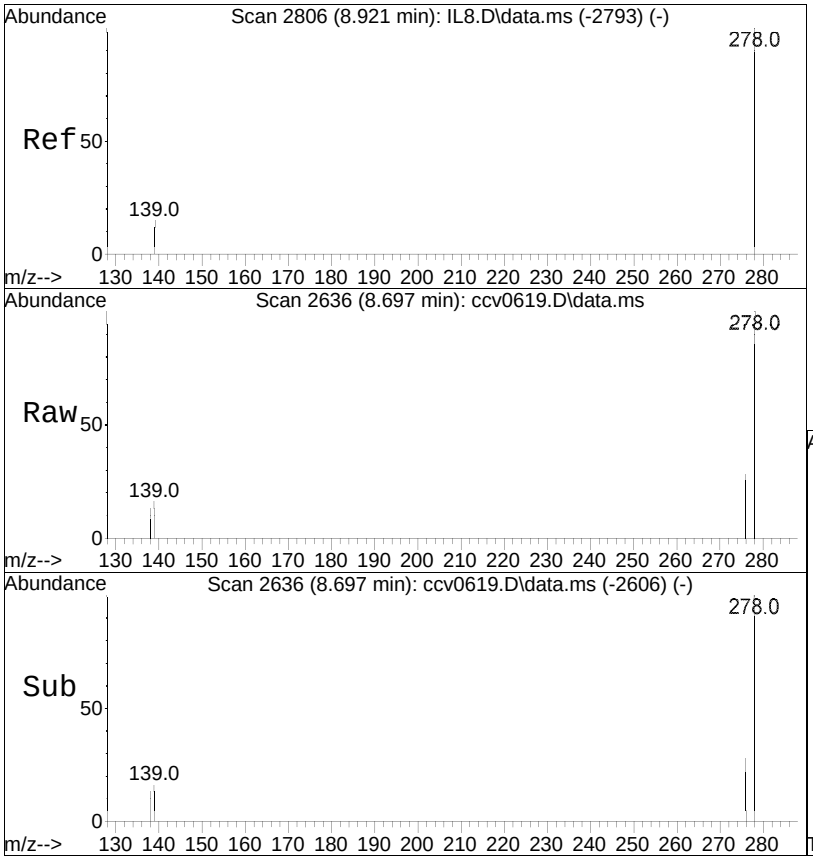


#40
Indeno[1,2,3-cd]pyrene
Concen: 963.35 ng/ml
RT: 8.662 min Scan# 2623
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:276 Resp: 114897

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.6	24.8

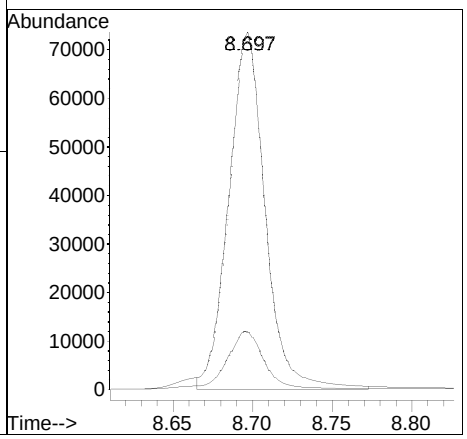


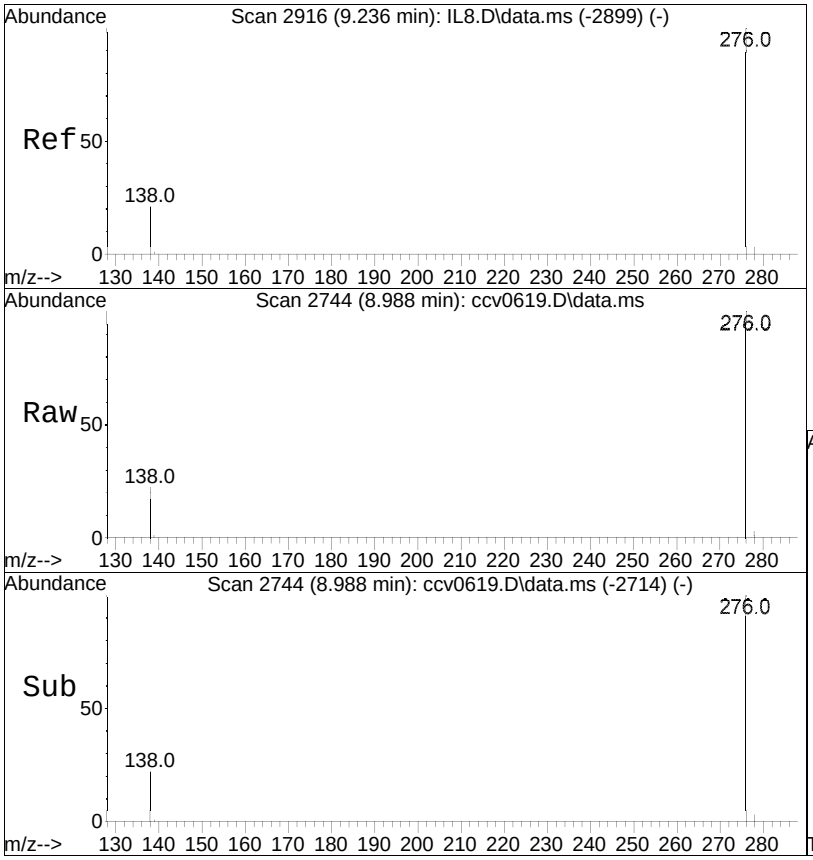


#41
Dibenzo[a,h]anthracene
Concen: 1015.55 ng/ml M6
RT: 8.697 min Scan# 2636
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:278 Resp: 115983

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.0	21.0

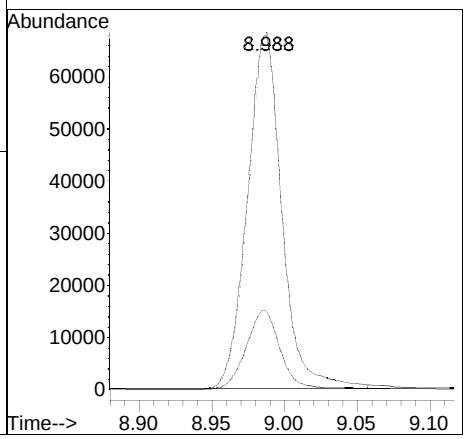




#42
Benzo[g,h,i]perylene
Concen: 921.16 ng/ml
RT: 8.988 min Scan# 2744
Delta R.T. 0.000 min
Lab File: ccv0619.D
Acq: 19 Jun 2024 09:00 am

Tgt Ion:276 Resp: 111774

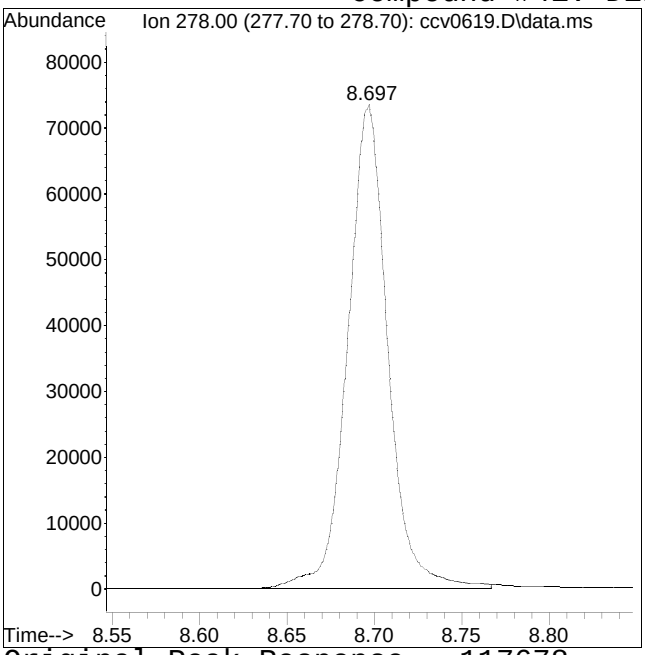
Ion	Ratio	Lower	Upper
276	100		
138	22.2	17.8	26.8



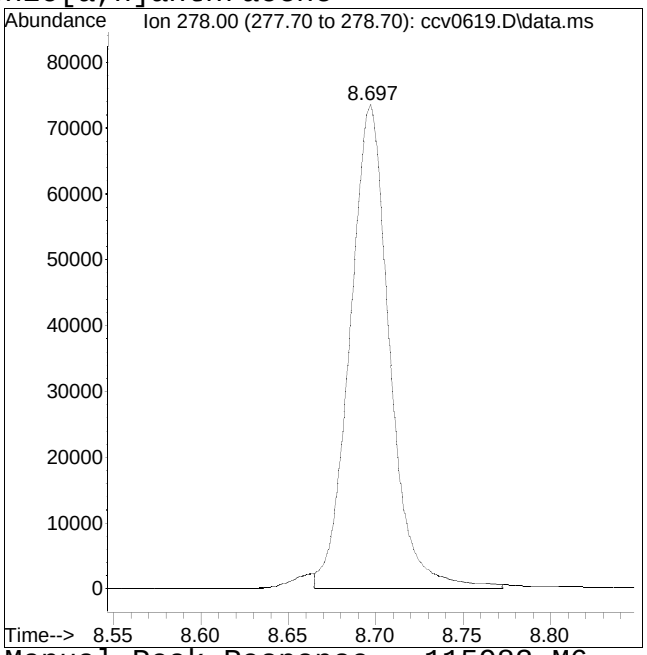
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : ccv0619.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 9:00 am Instrument : SV120
Sample : WG1936395-3,32,, ICV10475 Quant Date : 6/19/2024 3:07 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 117678



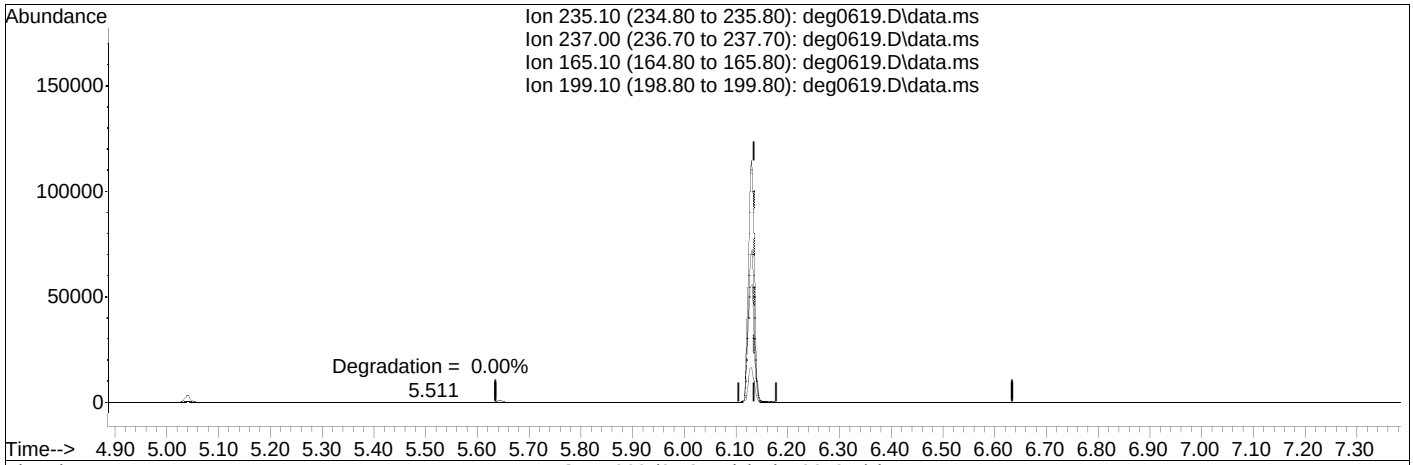
Manual Peak Response = 115983 M6

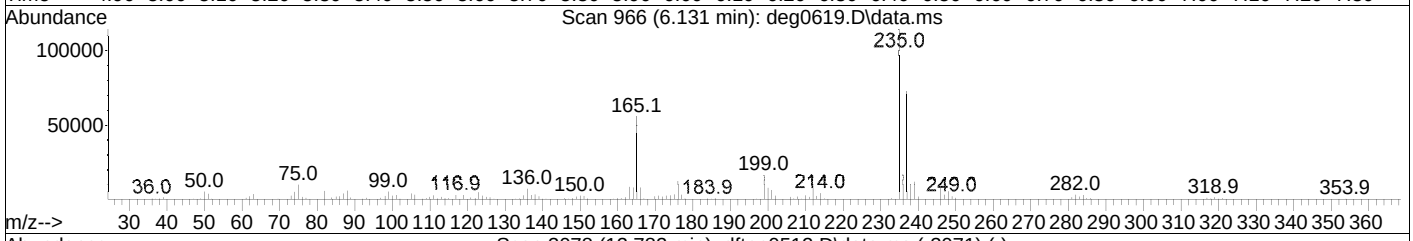
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

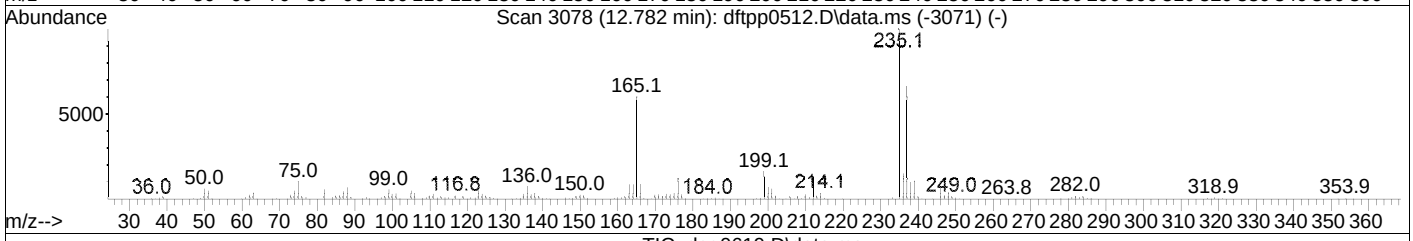
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2024 07:50 am
Operator : SV120:jjw
Sample : WG1936395-2,32,, dftpp SV120 lot#10809
Misc : WG1936395,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 08:14:36 2024
Quant Method : I:\8270SIM\sv120\240619RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0619.D\data.ms

(6) ddt (T)

6.131min (-0.004) 14.37

response 87625

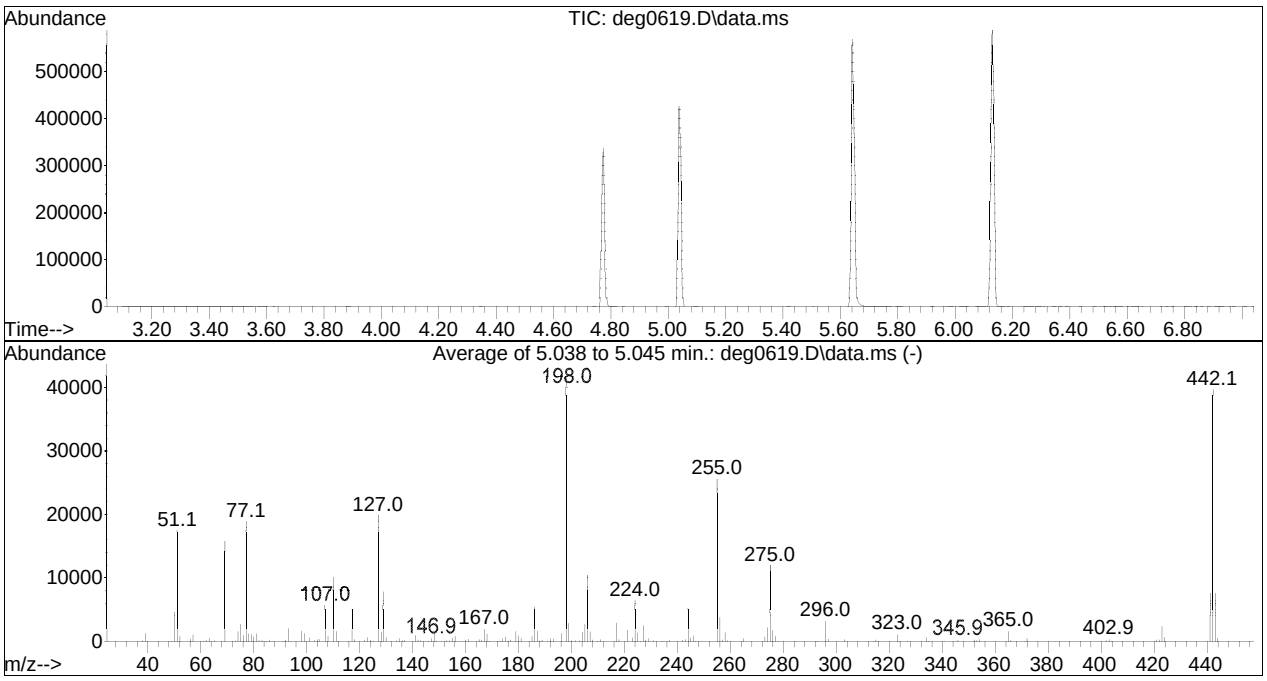
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.19
165.10	53.30	50.14
199.10	17.10	14.47

DFTPP

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2024 07:50 am
Operator : SV120:jjw
Sample : WG1936395-1,32,, dftpp SV120 lot#10809
Misc : WG1936395,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 09:21:07 2024



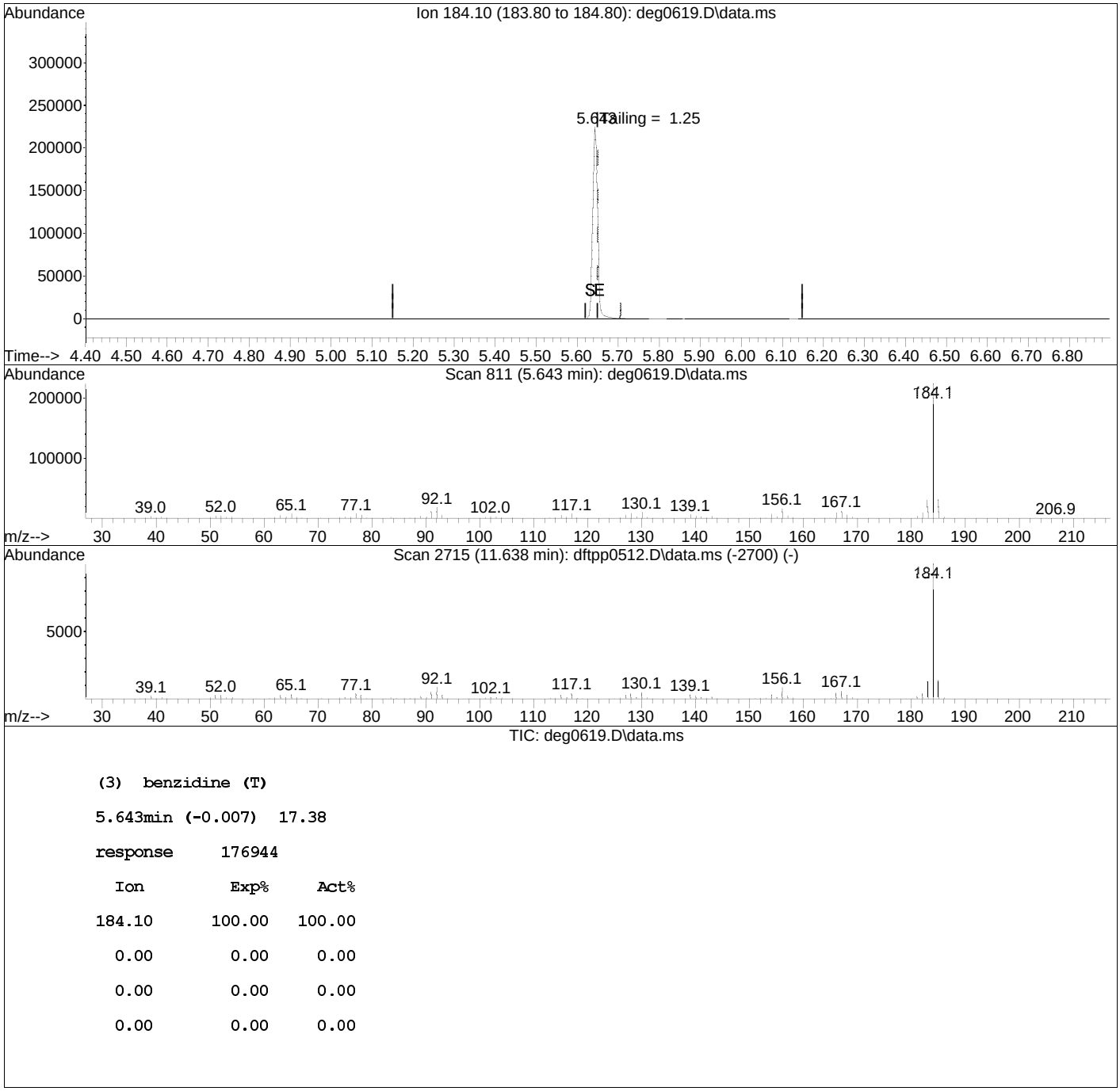
Spectrum Information: Average of 5.038 to 5.045 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.0	17468	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	15639	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	47.7	19811	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	41555	PASS
199	198	5	9	6.7	2781	PASS
275	198	10	60	28.7	11936	PASS
365	198	1	100	3.9	1608	PASS
441	442	0.01	24	19.0	7529	PASS
442	198	50	100	95.3	39613	PASS
443	442	15	24	19.0	7525	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2024 07:50 am
Operator : SV120:jjw
Sample : WG1936395-4,32,, dftpp SV120 lot#10809
Misc : WG1936395,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 08:14:36 2024
Quant Method : I:\8270SIM\sv120\240619RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.643min (-0.007) 17.38

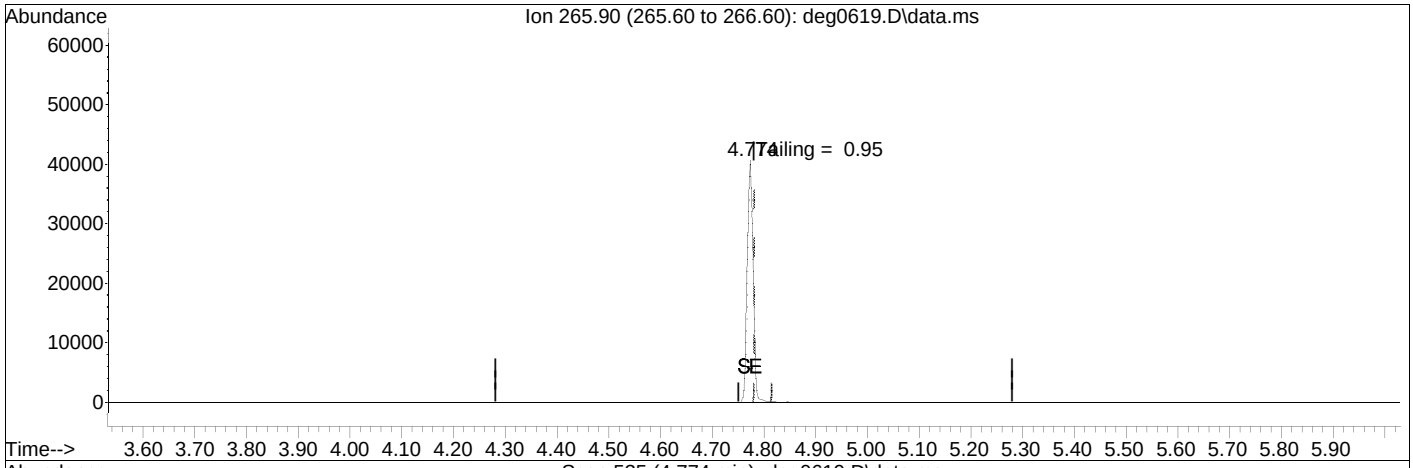
response 176944

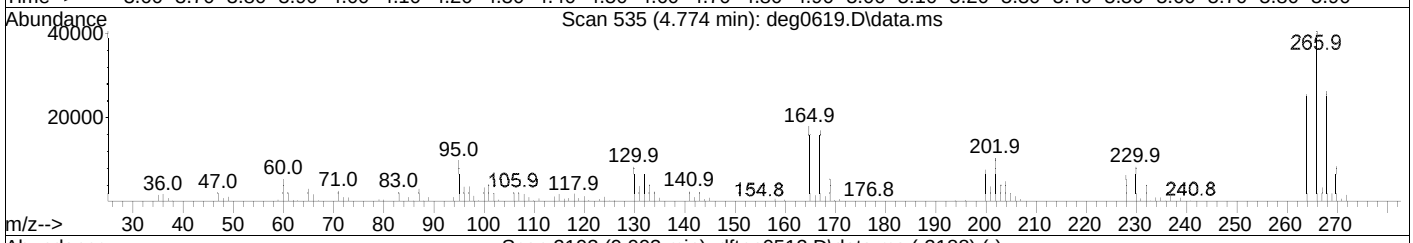
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

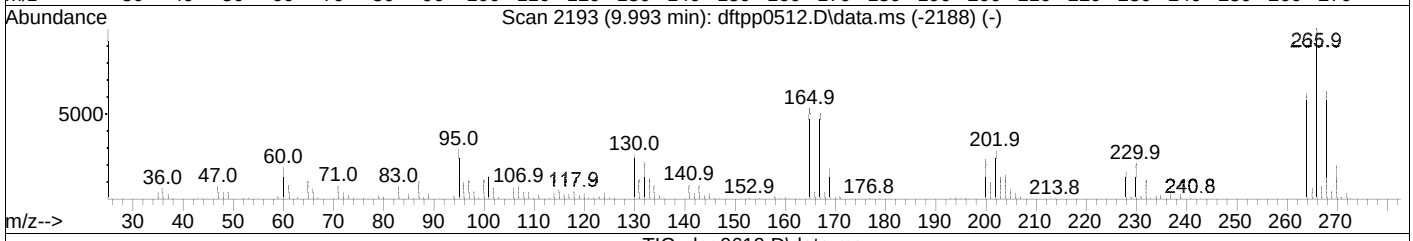
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : deg0619.D
Acq On : 19 Jun 2024 07:50 am
Operator : SV120:jjw
Sample : WG1936395-5,32,, dftpp SV120 lot#10809
Misc : WG1936395,,ical21160
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 19 08:14:36 2024
Quant Method : I:\8270SIM\sv120\240619RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: deg0619.D\data.ms

(1) pentachlorophenol (T)

4.774min (-0.007) 14.47

response 30386

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-1.D
Acq On : 17 Jun 2024 07:48 am
Operator : SV120:ah
Sample : WG1934857-1,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 10:19:18 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.191	152	115407	4000.000	ng/ml	-0.02
Standard Area 1 = 108607			Recovery = 106.26%			
8) Naphthalene-d8	2.853	136	427157	4000.000	ng/ml	-0.01
Standard Area 1 = 406711			Recovery = 105.03%			
17) Acenaphthene-d10	3.828	164	244944	4000.000	ng/ml	-0.01
Standard Area 1 = 240410			Recovery = 101.89%			
22) Phenanthrene-d10	4.668	188	525997	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 100.16%			
31) Chrysene-d12	6.251	240	477799M1	4000.000	ng/ml	0.04
Standard Area 1 = 478566			Recovery = 99.84%			
36) Perylene-d12	7.419	264	478685	4000.000	ng/ml	0.04
Standard Area 1 = 501063			Recovery = 95.53%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.609	112	30801	897.981	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.90%			
3) Phenol-d6	2.007	99	26049	631.788	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.59%			
7) Nitrobenzene-d5	2.470	82	25981	707.253	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 70.73%			
13) 2-Fluorobiphenyl	3.450	172	65741	723.806	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.38%			
21) 2,4,6-Tribromophenol	4.274	330	20940	1257.878	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 62.89%			
30) 4-Terphenyl-d14	5.601	244	85704	800.799	ng/ml	0.01
Spiked Amount 2000.000	Range 30 - 130		Recovery = 40.04%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.864	128	1120	9.276	ng/ml#	96
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-1.D
Acq On : 17 Jun 2024 07:48 am
Operator : SV120:ah
Sample : WG1934857-1,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 10:19:18 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.568	266	103M6	49.360	ng/ml	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

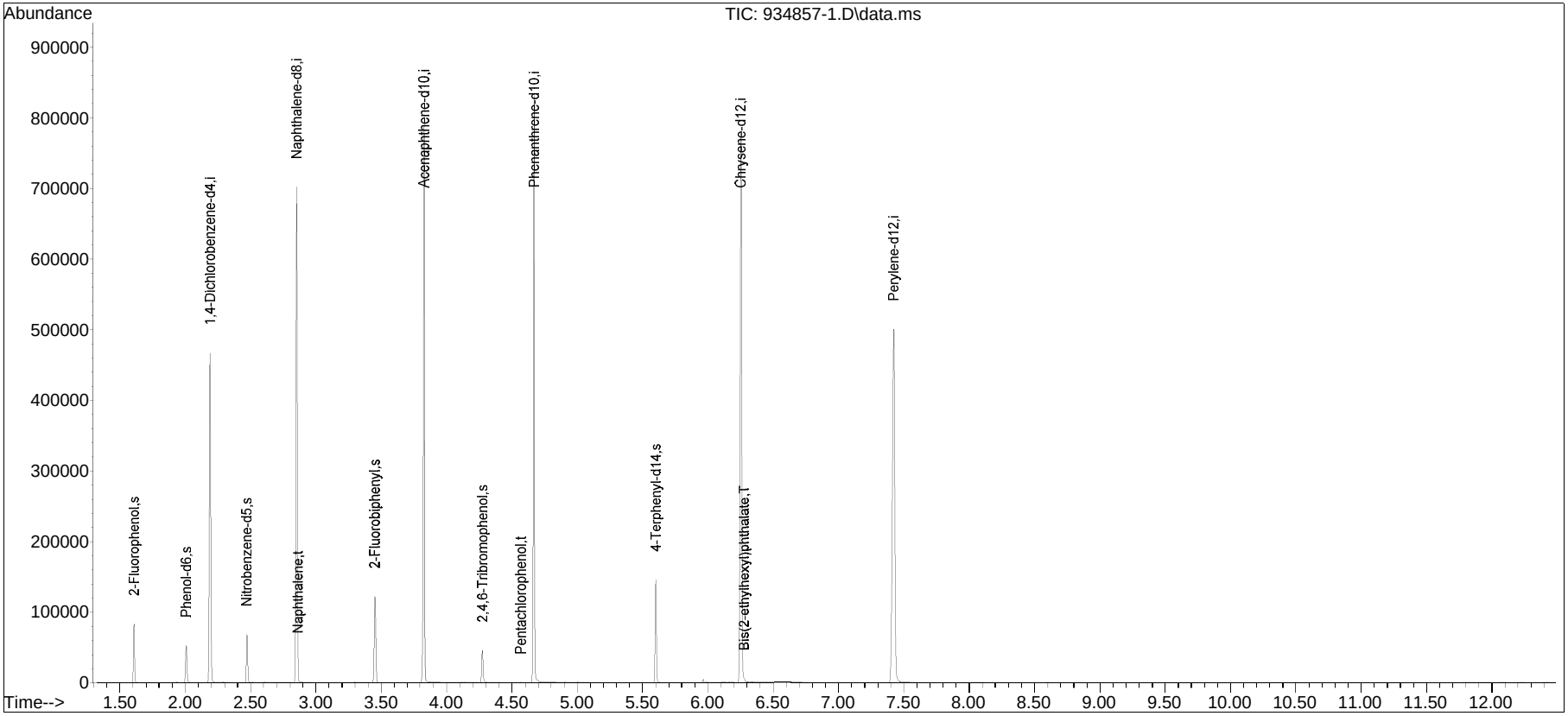
(#) = qualifier out of range (m) = manual integration (+) = signals summed

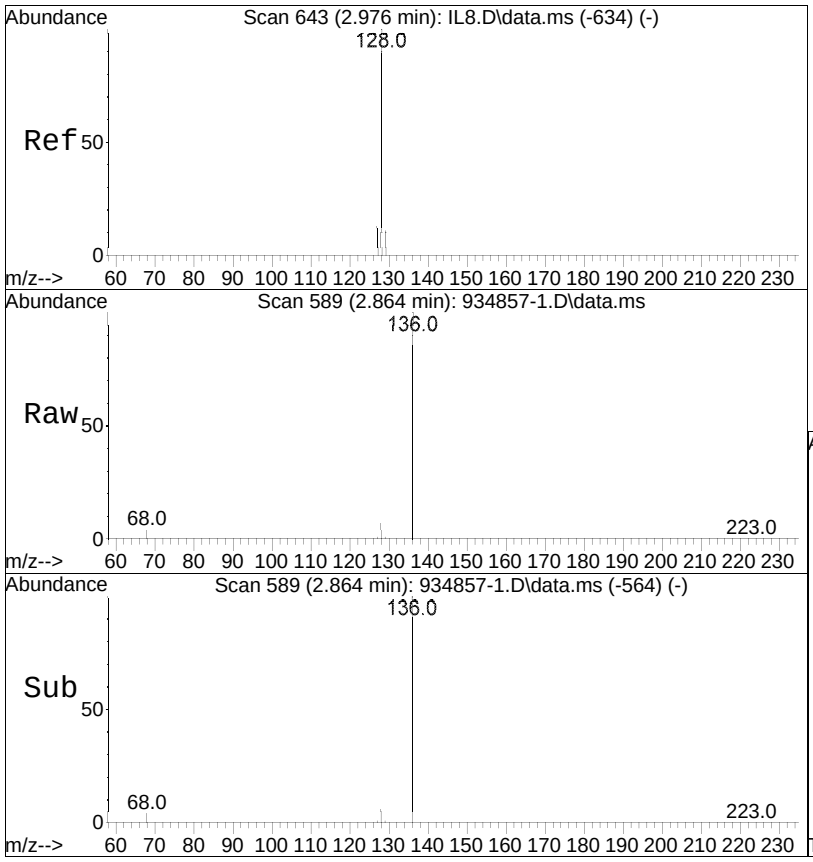
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-1.D
Acq On : 17 Jun 2024 07:48 am
Operator : SV120:ah
Sample : WG1934857-1,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 17 10:19:18 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

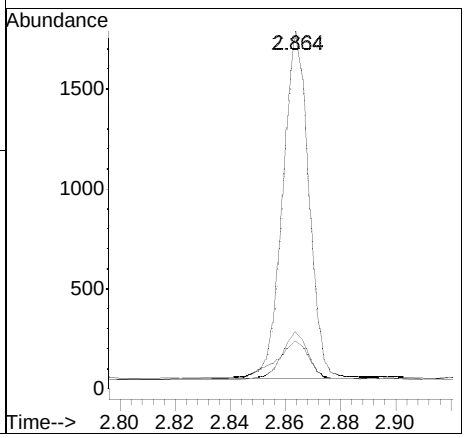


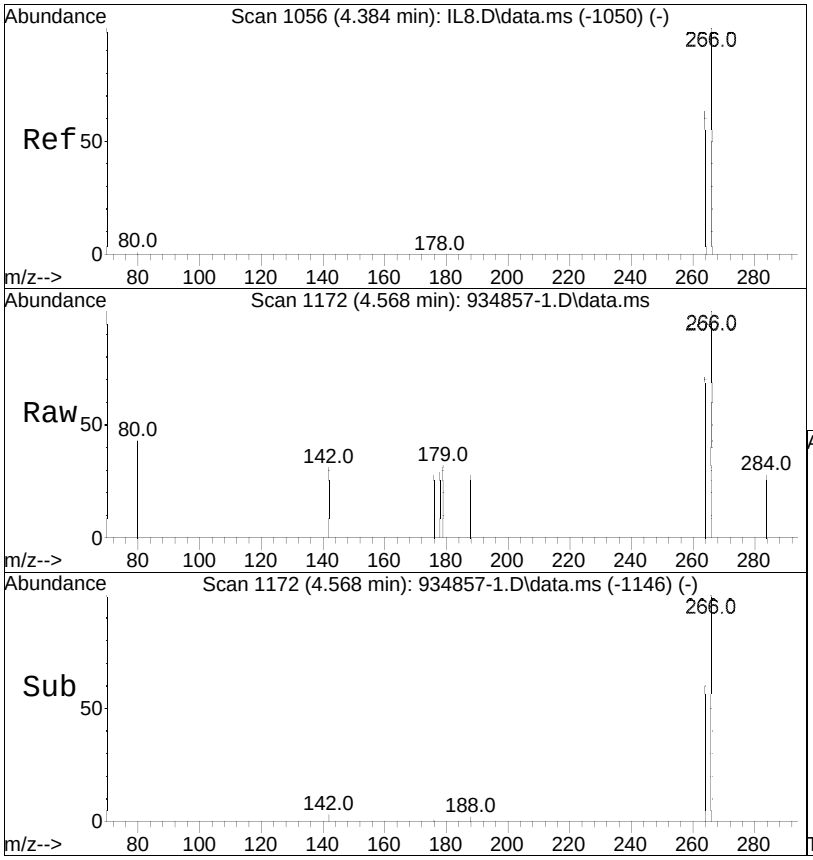


#9
Naphthalene
Concen: 9.28 ng/ml
RT: 2.864 min Scan# 589
Delta R.T. -0.015 min
Lab File: 934857-1.D
Acq: 17 Jun 2024 07:48 am

Tgt Ion:128 Resp: 1120

Ion	Ratio	Lower	Upper
128	100		
129	14.1	9.0	13.4#
127	14.2	11.3	16.9

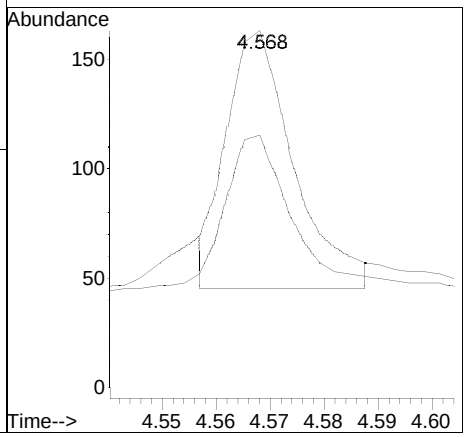




#25
Pentachlorophenol
Concen: 49.36 ng/ml M6
RT: 4.568 min Scan# 1172
Delta R.T. -0.007 min
Lab File: 934857-1.D
Acq: 17 Jun 2024 07:48 am

Tgt Ion:266 Resp: 103

Ion	Ratio	Lower	Upper
266	100		
264	69.9	50.2	75.2

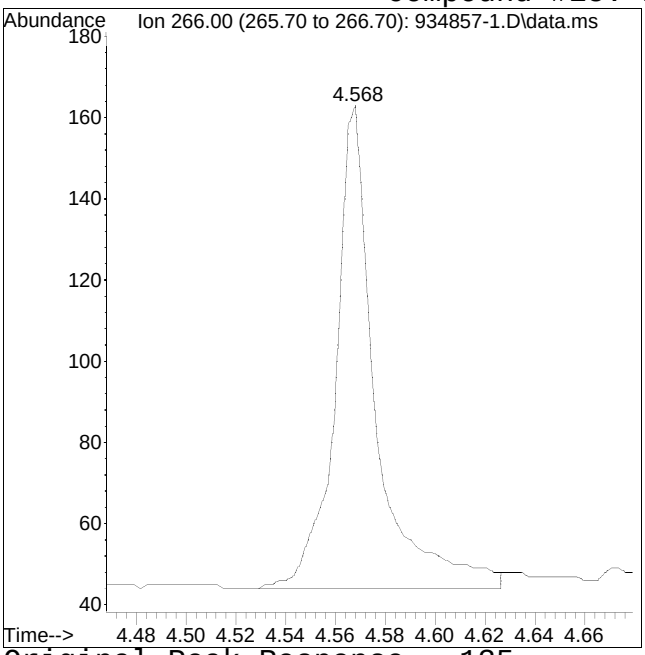


Manual Integration Report

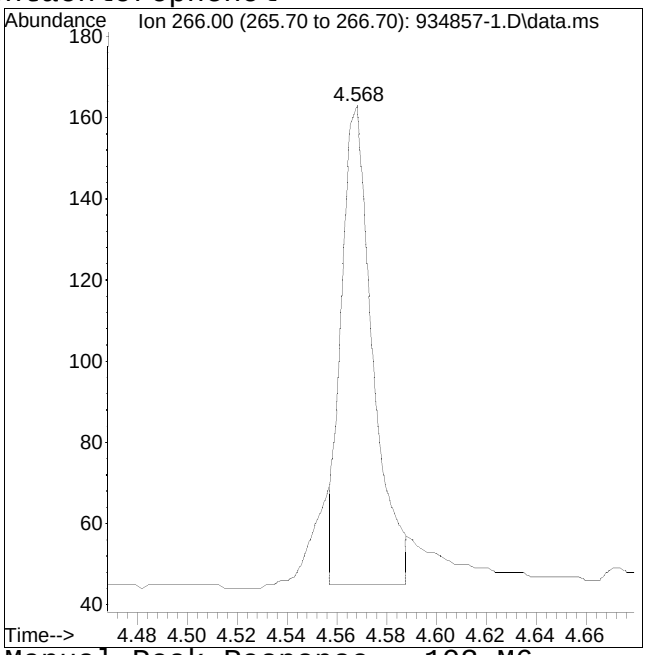
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 934857-1.D
Date Inj'd : 6/17/2024 7:48 am
Sample : WG1934857-1,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 8:02 am

Compound #25: Pentachlorophenol



Original Peak Response = 135



Manual Peak Response = 103 M6

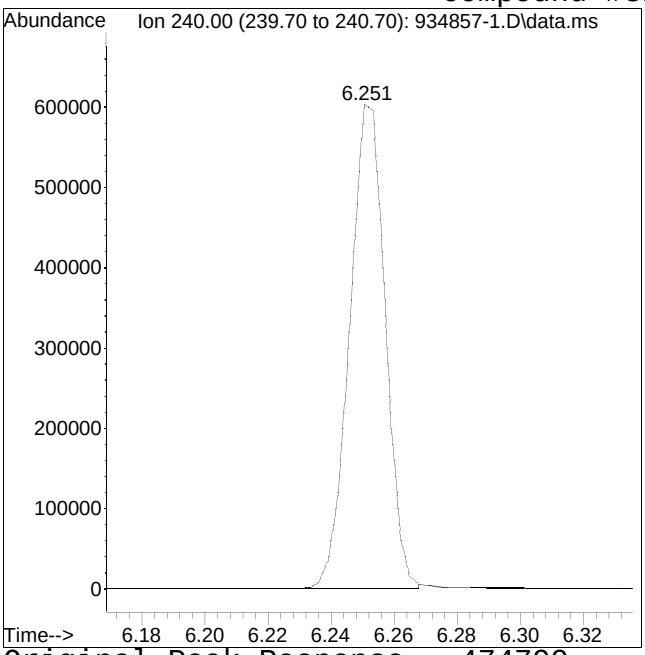
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

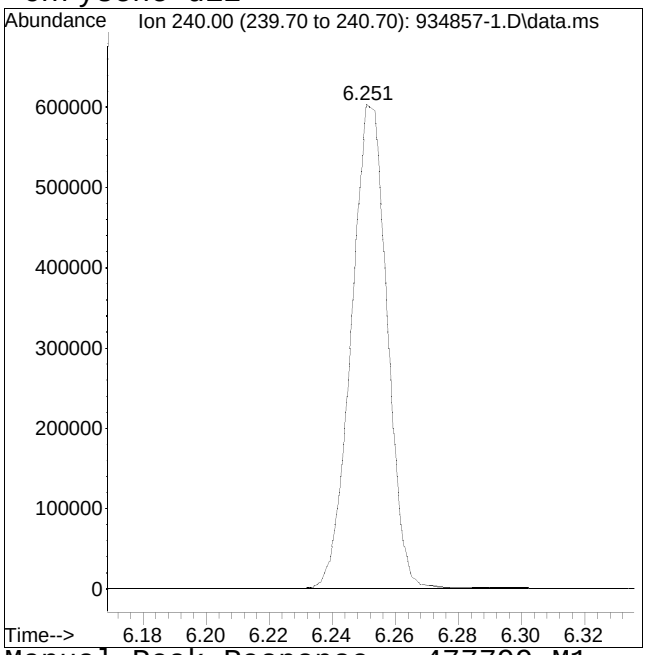
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 934857-1.D
Date Inj'd : 6/17/2024 7:48 am
Sample : WG1934857-1,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 8:02 am

Compound #31: Chrysene-d12



Original Peak Response = 474799



Manual Peak Response = 477799 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-1.D
Acq On : 19 Jun 2024 10:44 am
Operator : SV120:jjw
Sample : WG1935742-1,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 15:09:59 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	109770	4000.000	ng/ml	0.03
Standard Area 1 = 132040			Recovery = 83.13%			
8) Naphthalene-d8	2.861	136	405996	4000.000	ng/ml	0.02
Standard Area 1 = 488520			Recovery = 83.11%			
17) Acenaphthene-d10	3.834	164	227783	4000.000	ng/ml	0.02
Standard Area 1 = 278744			Recovery = 81.72%			
22) Phenanthrene-d10	4.668	188	477828	4000.000	ng/ml	0.00
Standard Area 1 = 573885			Recovery = 83.26%			
31) Chrysene-d12	6.214	240	422237M2	4000.000	ng/ml	-0.12
Standard Area 1 = 483963			Recovery = 87.25%			
36) Perylene-d12	7.380	264	414461M2	4000.000	ng/ml	-0.13
Standard Area 1 = 464613			Recovery = 89.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.632	112	29535	905.290	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.26%			
3) Phenol-d6	2.021	99	31687	807.998	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.40%			
7) Nitrobenzene-d5	2.481	82	30634	876.740	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.67%			
13) 2-Fluorobiphenyl	3.457	172	67488	781.768	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.18%			
21) 2,4,6-Tribromophenol	4.277	330	17115	1106.085	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.30%			
30) 4-Terphenyl-d14	5.585	244	105788M1	1088.105	ng/ml	-0.05
Spiked Amount 2000.000	Range 30 - 130		Recovery = 54.41%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-1.D
Acq On : 19 Jun 2024 10:44 am
Operator : SV120:jjw
Sample : WG1935742-1,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 15:09:59 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	0.000		0	N.D.		
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.		
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

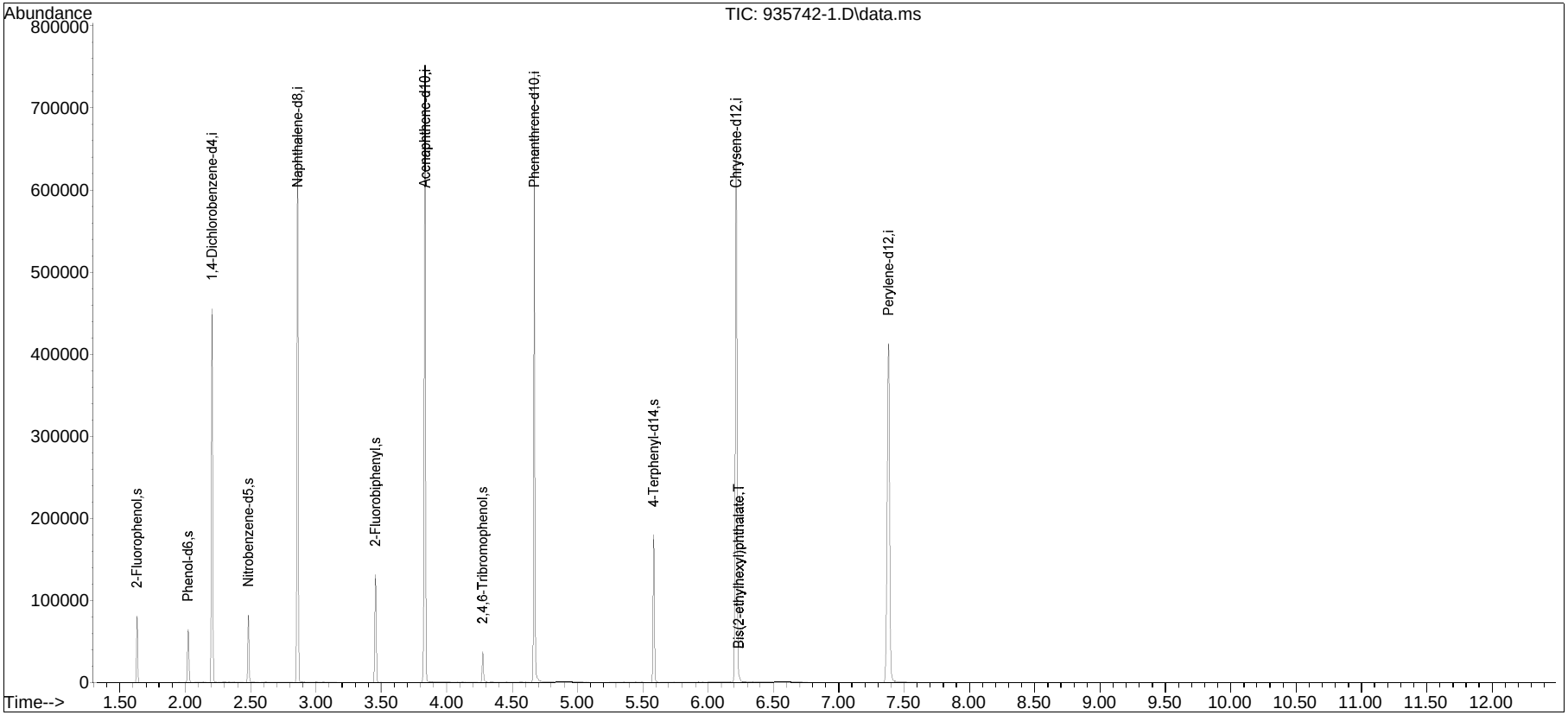
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-1.D
Acq On : 19 Jun 2024 10:44 am
Operator : SV120:jjw
Sample : WG1935742-1,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 15:09:59 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•

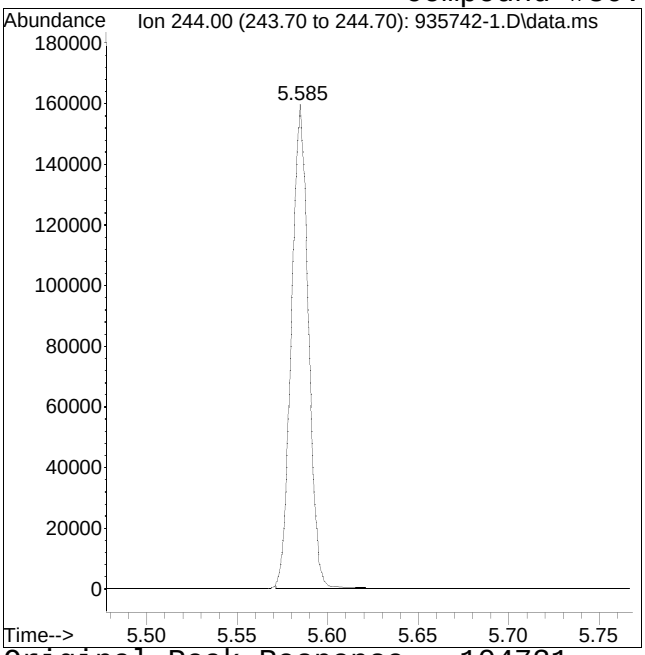


Manual Integration Report

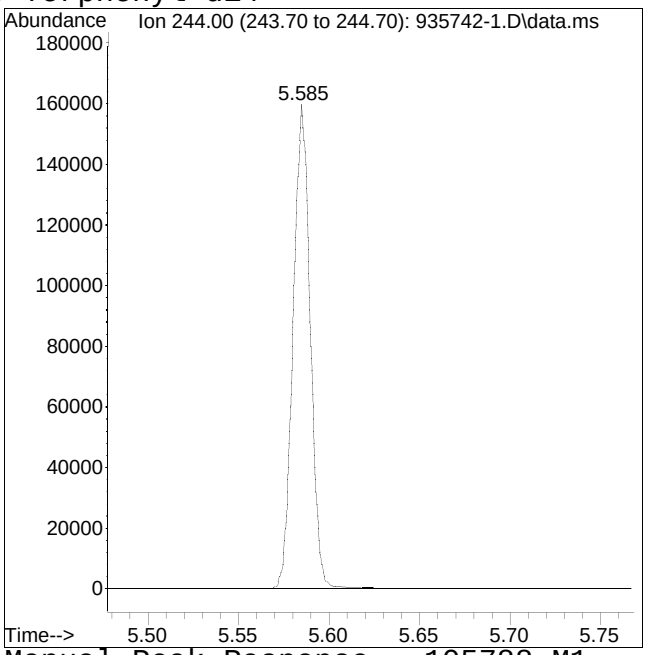
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-1.D
Date Inj'd : 6/19/2024 10:44 am
Sample : WG1935742-1,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:08 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 104731



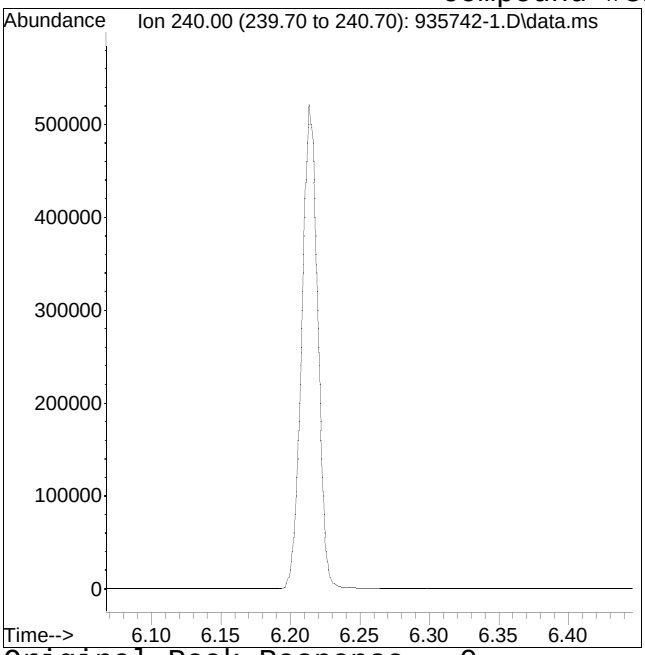
Manual Peak Response = 105788 M1

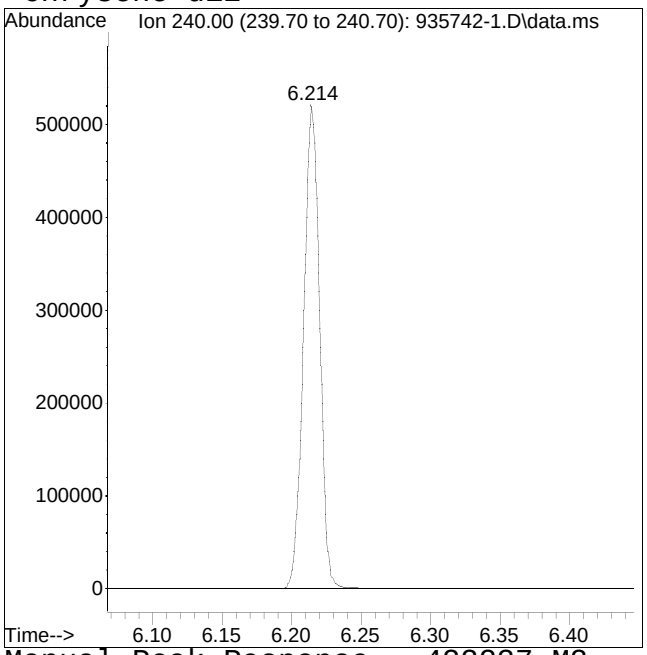
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-1.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 10:44 am Instrument : SV120
Sample : WG1935742-1,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #31: Chrysene-d12



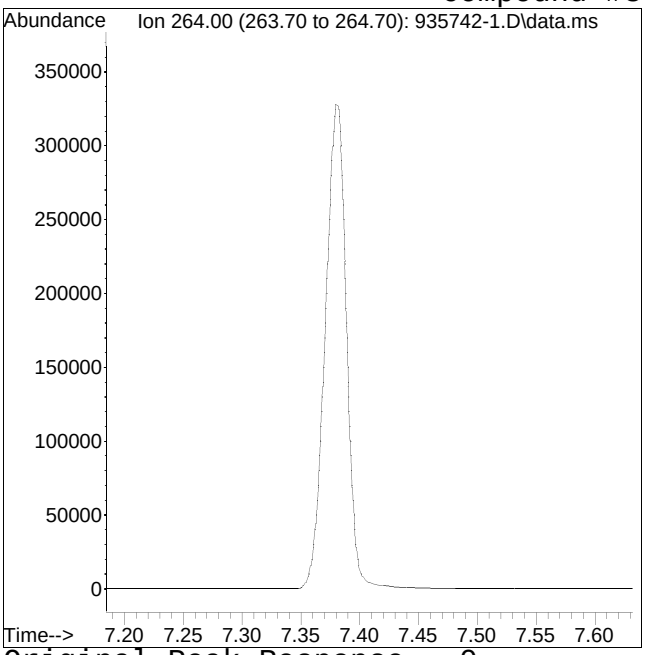


Original Peak Response = 0 Manual Peak Response = 422237 M2
M2 = Peak not found by automatic integration algorithm.

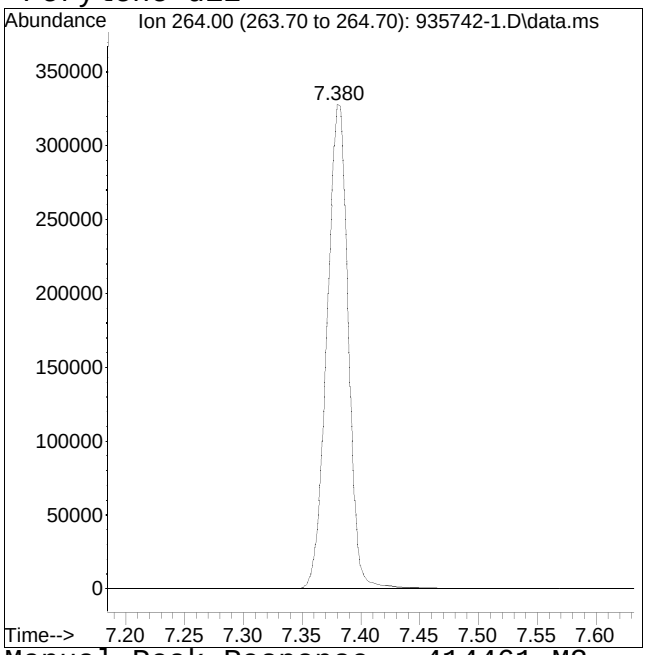
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-1.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 10:44 am Instrument : SV120
Sample : WG1935742-1,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #36: Perylene-d12



Original Peak Response = 0



Manual Peak Response = 414461 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-2.D
Acq On : 17 Jun 2024 08:04 am
Operator : SV120:ah
Sample : WG1934857-2,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 10:20:52 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.202	152	126893	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 116.84%			
8) Naphthalene-d8	2.861	136	490067	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 120.50%			
17) Acenaphthene-d10	3.836	164	274666	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 114.25%			
22) Phenanthrene-d10	4.673	188	587422	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 111.85%			
31) Chrysene-d12	6.212	240	508372	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 106.23%			
36) Perylene-d12	7.381	264	519795	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery = 103.74%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.624	112	19869	526.833	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.34%			
3) Phenol-d6	2.018	99	23076	509.021	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.45%			
7) Nitrobenzene-d5	2.481	82	31187	772.124	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.21%			
13) 2-Fluorobiphenyl	3.455	172	75175	721.425	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.14%			
21) 2,4,6-Tribromophenol	4.279	330	17401	933.288	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.66%			
30) 4-Terphenyl-d14	5.584	244	94384	789.685	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 39.48%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	56077	1399.570	ng/ml	98
6) Hexachloroethane	2.458	117	16097	886.661	ng/ml	99
9) Naphthalene	2.872	128	158627	1145.128	ng/ml	99
10) Hexachlorobutadiene	2.944	225	23306	879.522	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	106684	1234.409	ng/ml	100
14) 2-Chloronaphthalene	3.520	162	111762	1265.244	ng/ml	92
16) Acenaphthylene	3.752	152	193551	1488.858	ng/ml	100
18) Acenaphthene	3.852	153	130447	1384.182	ng/ml	96
20) Fluorene	4.143	166	150255	1479.103	ng/ml	100
24) Hexachlorobenzene	4.459	284	59972	1416.929	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-2.D
Acq On : 17 Jun 2024 08:04 am
Operator : SV120:ah
Sample : WG1934857-2,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 10:20:52 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.570	266	20576	850.931	ng/ml	99
26) Phenanthrene	4.684	178	239642	1450.892	ng/ml	100
27) Anthracene	4.712	178	243315	1490.950	ng/ml	100
28) Fluoranthene	5.359	202	289830	1617.967	ng/ml	100
29) Pyrene	5.488	202	304211	1637.751	ng/ml	100
32) Benzo[a]anthracene	6.204	228	288137	1480.429	ng/ml	100
34) Chrysene	6.230	228	262354	1423.719	ng/ml	99
37) Benzo[b]fluoranthene	7.020	252	277892	1616.829	ng/ml	100
38) Benzo[k]fluoranthene	7.043	252	250142	1528.719	ng/ml	100
39) Benzo[a]pyrene	7.318	252	234912	1658.027	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.560	276	229821	1722.364	ng/ml	98
41) Dibenzo[a,h]anthracene	8.592	278	224818M6	1759.532	ng/ml	
42) Benzo[g,h,i]perylene	8.890	276	213415	1572.099	ng/ml	99

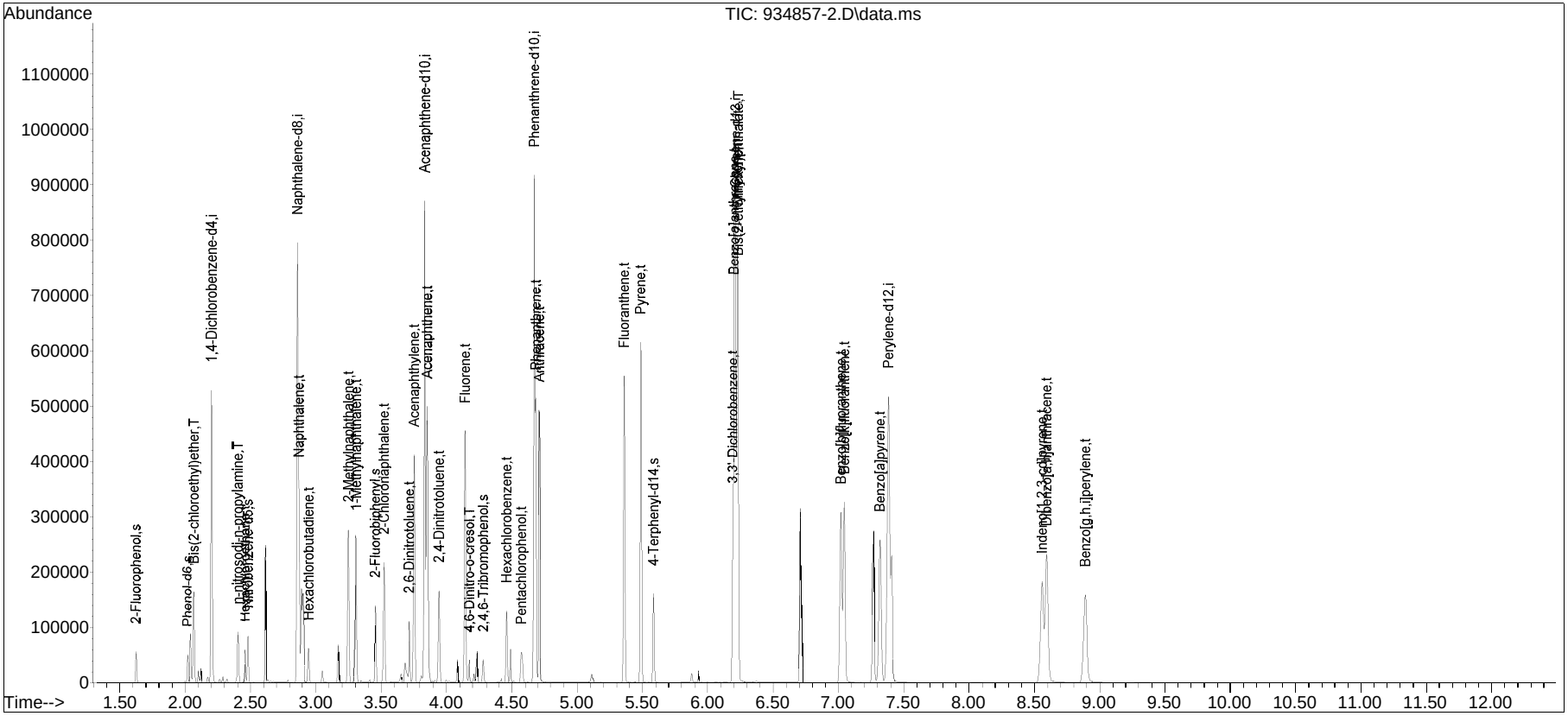
(#) = qualifier out of range (m) = manual integration (+) = signals summed

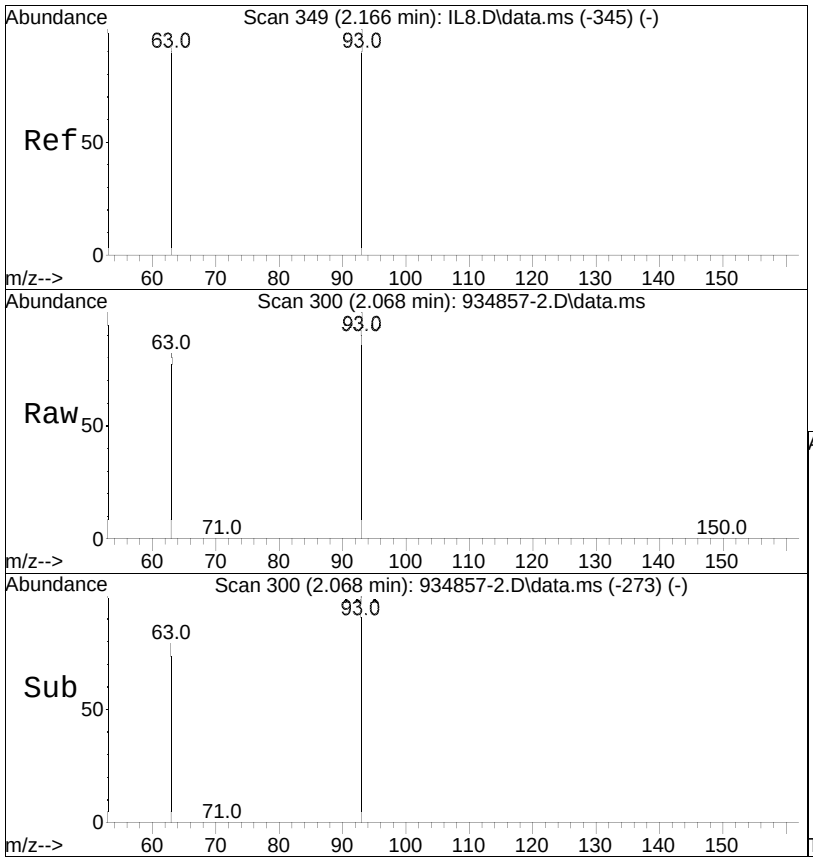
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-2.D
Acq On : 17 Jun 2024 08:04 am
Operator : SV120:ah
Sample : WG1934857-2,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 10:20:52 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

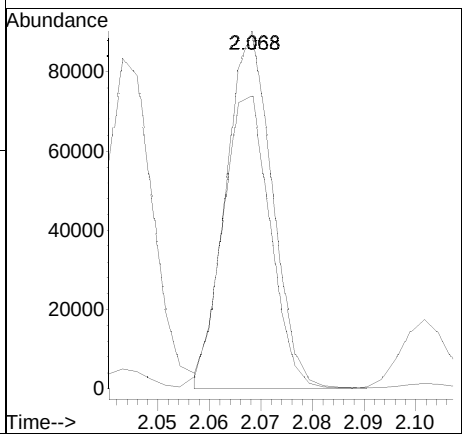


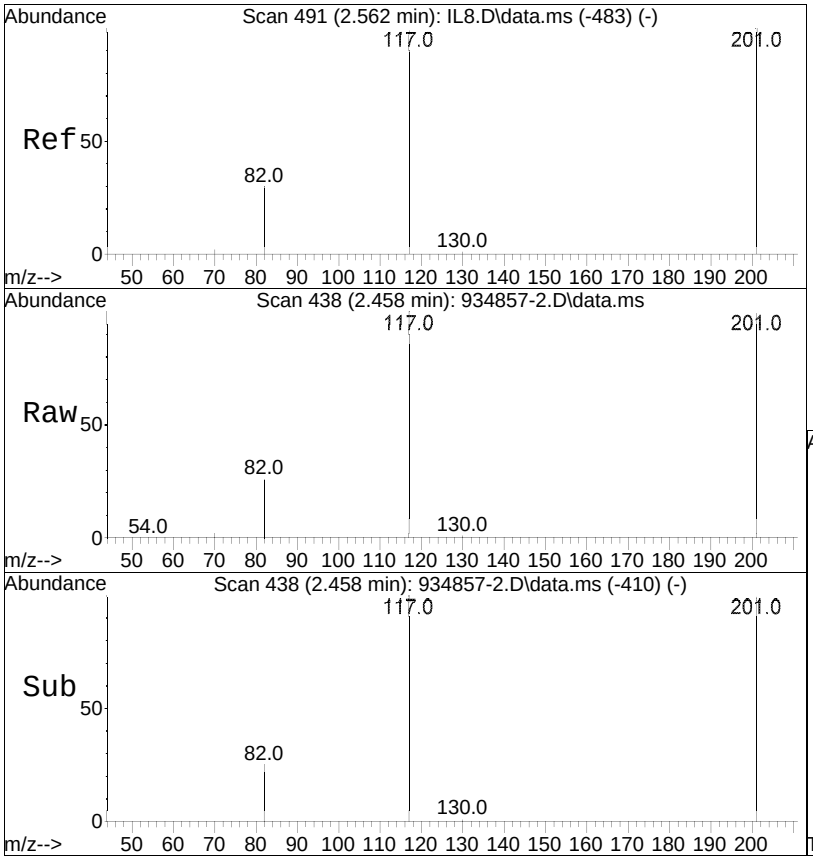


#4
Bis(2-chloroethyl)ether
Concen: 1399.57 ng/ml
RT: 2.068 min Scan# 300
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion: 93 Resp: 56077

Ion	Ratio	Lower	Upper
93	100		
63	84.2	68.6	102.8

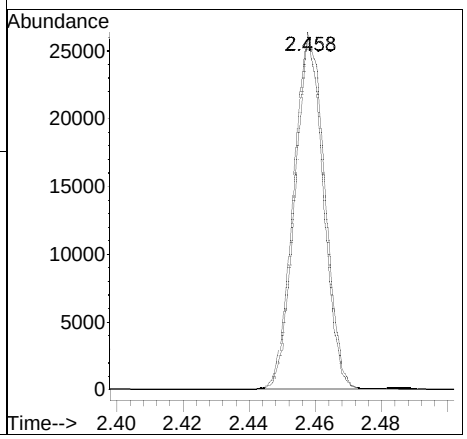


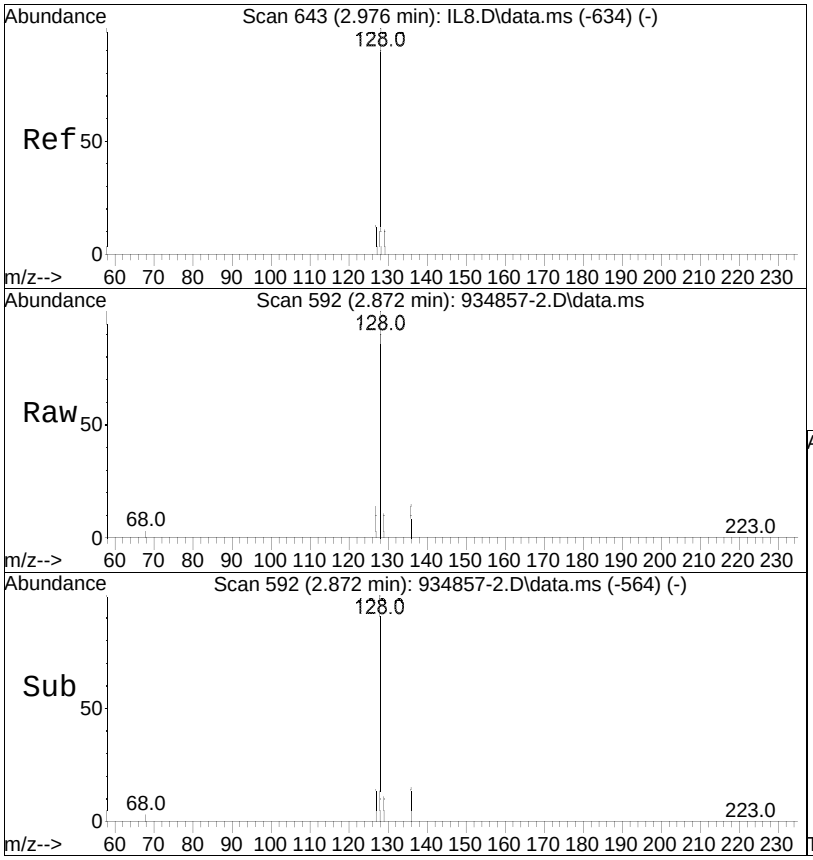


#6
Hexachloroethane
Concen: 886.66 ng/ml
RT: 2.458 min Scan# 438
Delta R.T. -0.007 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:117 Resp: 16097

Ion	Ratio	Lower	Upper
117	100		
201	100.3	79.4	119.2

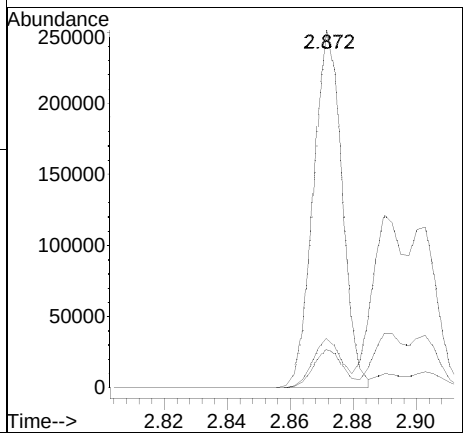


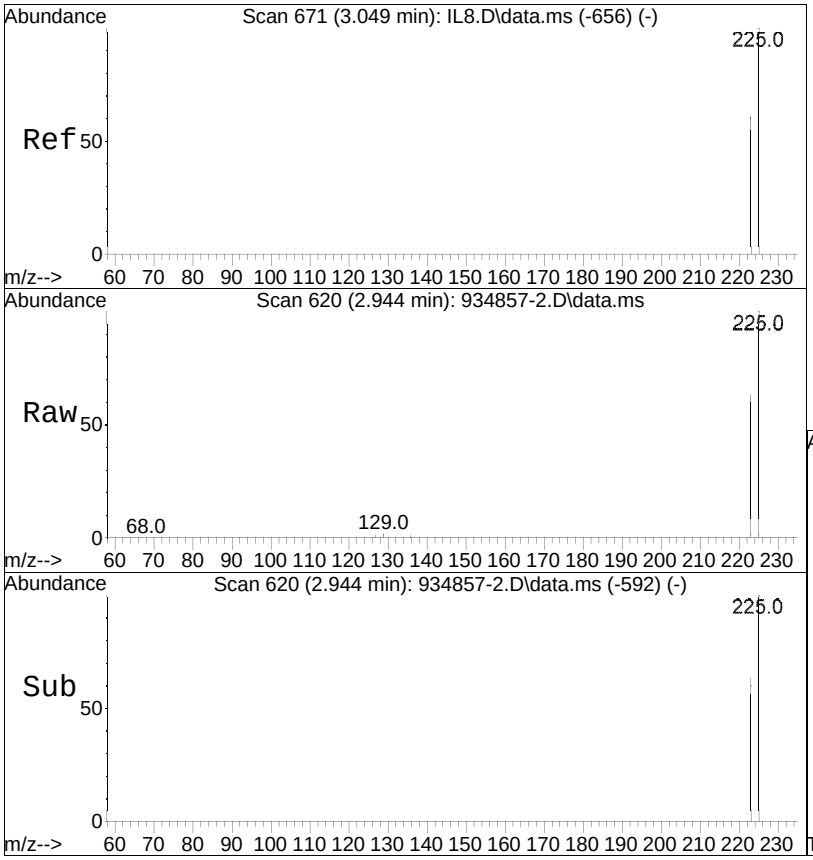


#9
Naphthalene
Concen: 1145.13 ng/ml
RT: 2.872 min Scan# 592
Delta R.T. -0.007 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:128 Resp: 158627

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.4
127	13.9	11.3	16.9

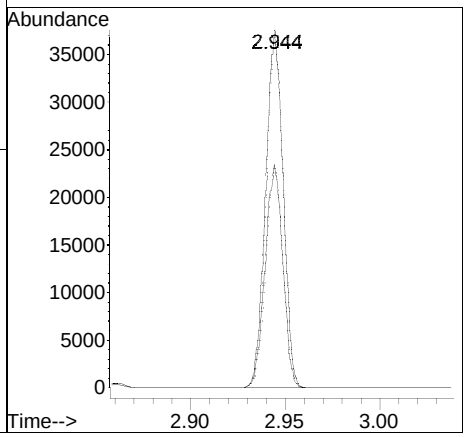


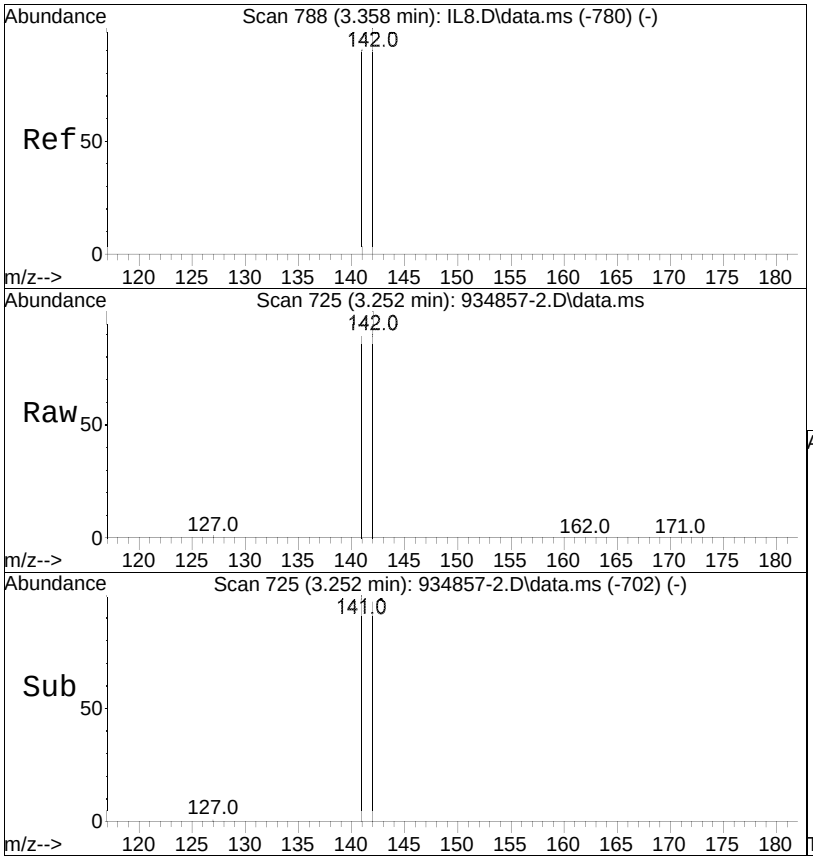


#10
Hexachlorobutadiene
Concen: 879.52 ng/ml
RT: 2.944 min Scan# 620
Delta R.T. -0.007 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:225 Resp: 23306

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1

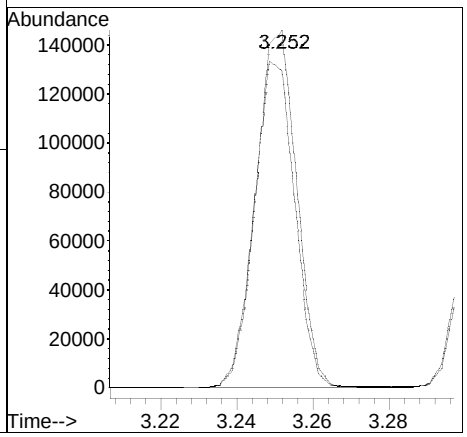


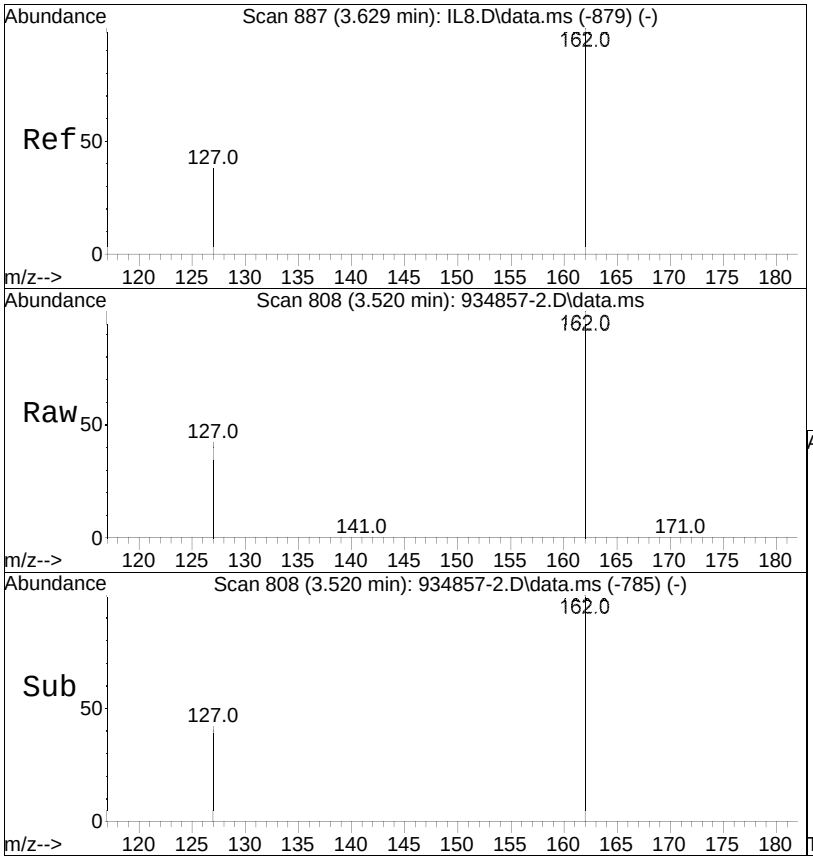


#11
2-Methylnaphthalene
Concen: 1234.41 ng/ml
RT: 3.252 min Scan# 725
Delta R.T. -0.006 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:142 Resp: 106684

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6

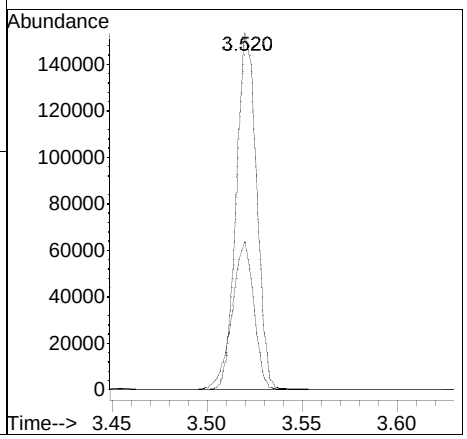


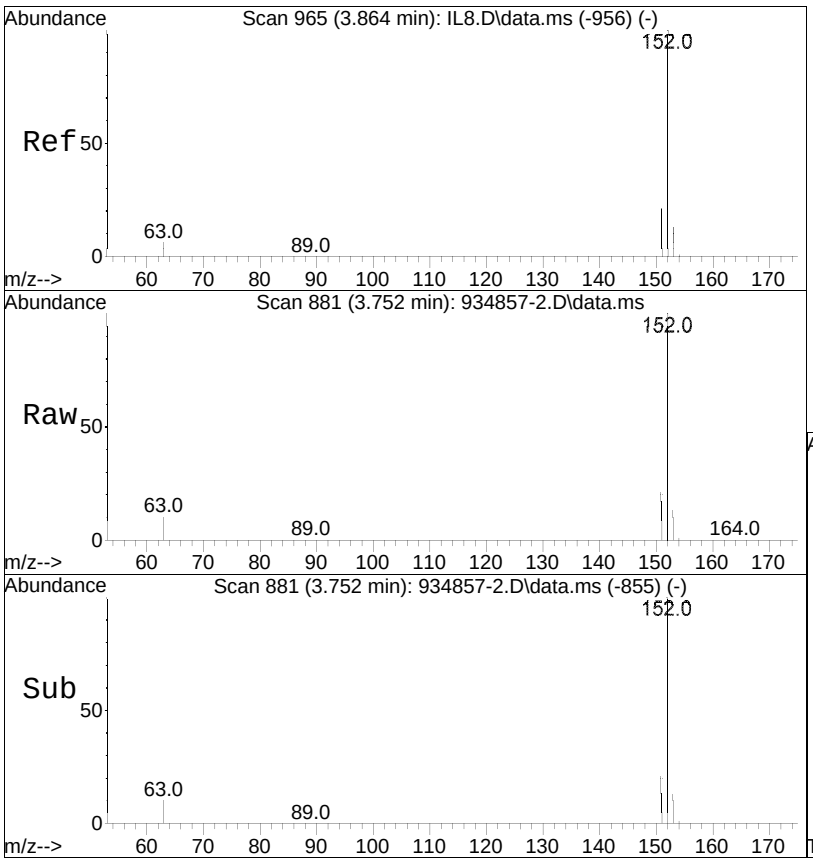


#14
2-Chloronaphthalene
Concen: 1265.24 ng/ml
RT: 3.520 min Scan# 808
Delta R.T. -0.006 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:162 Resp: 111762

Ion	Ratio	Lower	Upper
162	100		
127	44.8	32.0	48.0

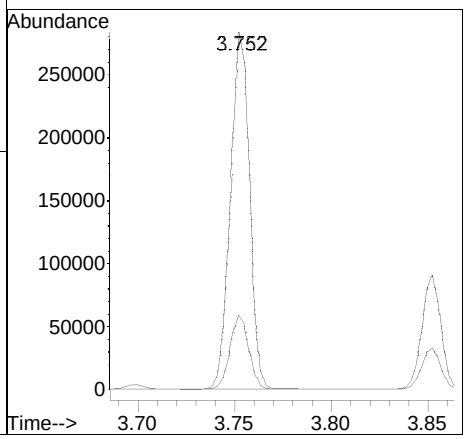


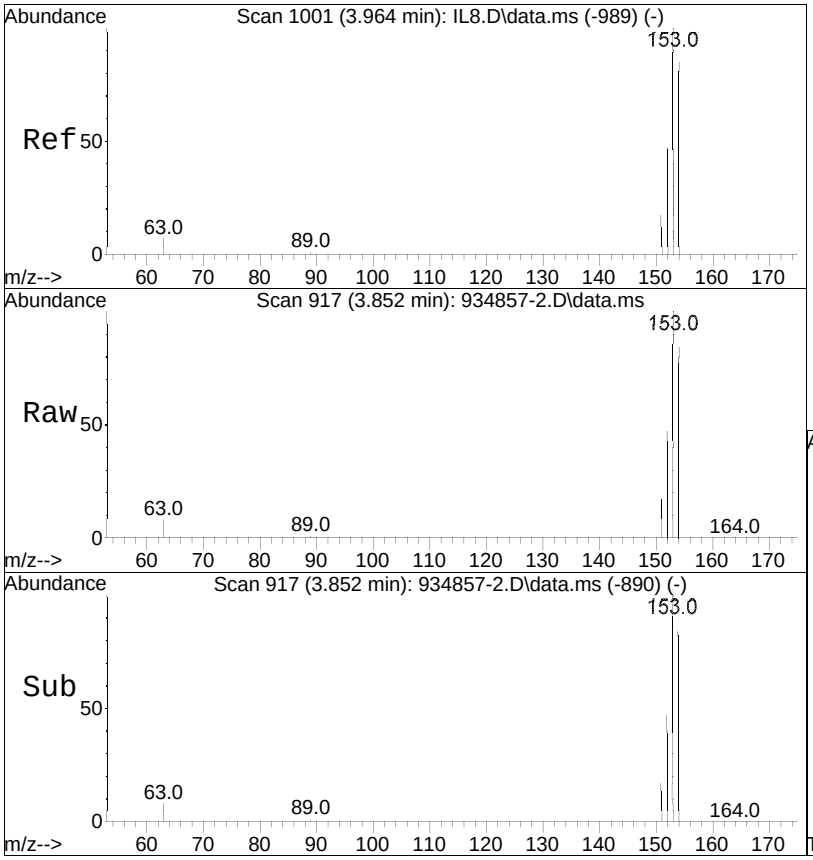


#16
Acenaphthylene
Concen: 1488.86 ng/ml
RT: 3.752 min Scan# 881
Delta R.T. -0.008 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:152 Resp: 193551

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

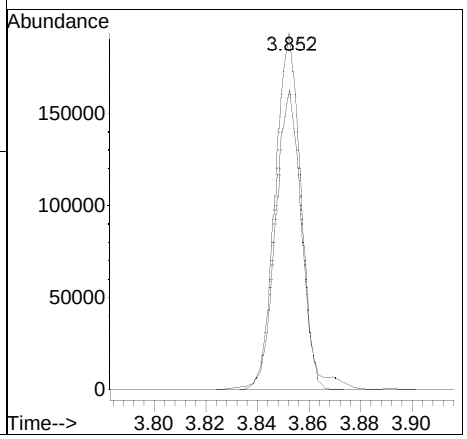


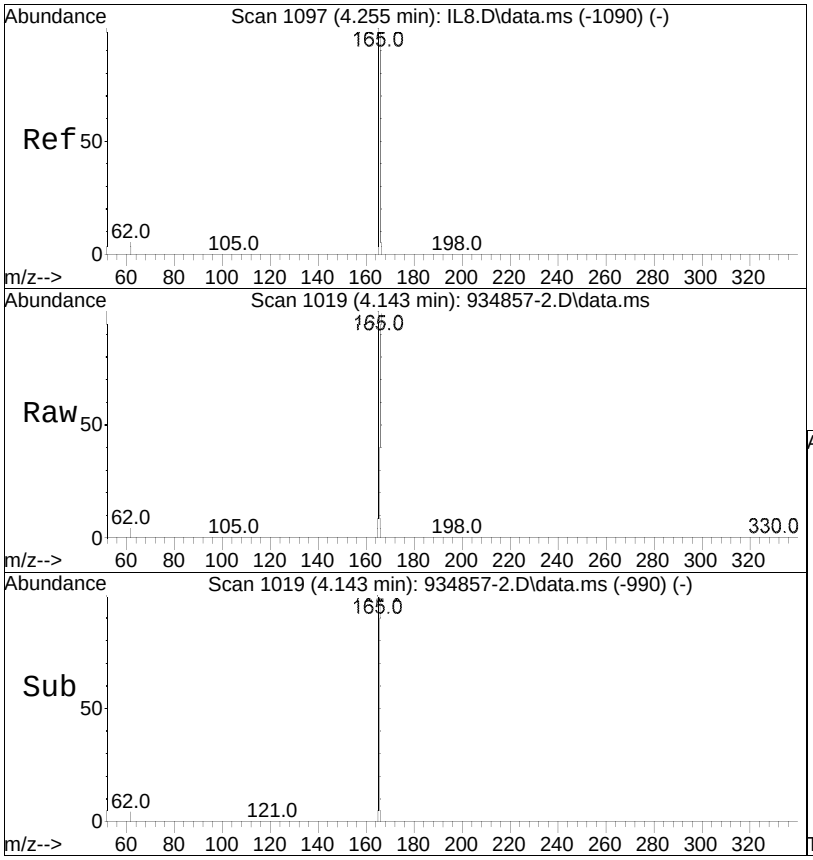


#18
Acenaphthene
Concen: 1384.18 ng/ml
RT: 3.852 min Scan# 917
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:153 Resp: 130447

Ion	Ratio	Lower	Upper
153	100		
154	88.4	73.4	110.2

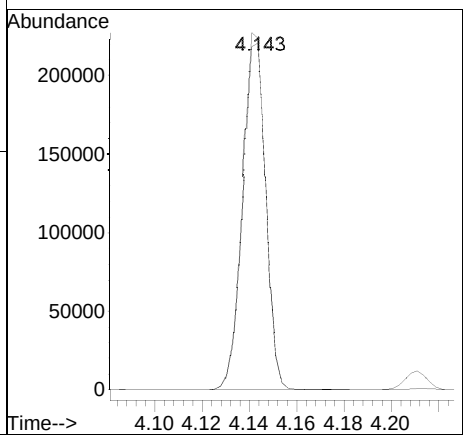


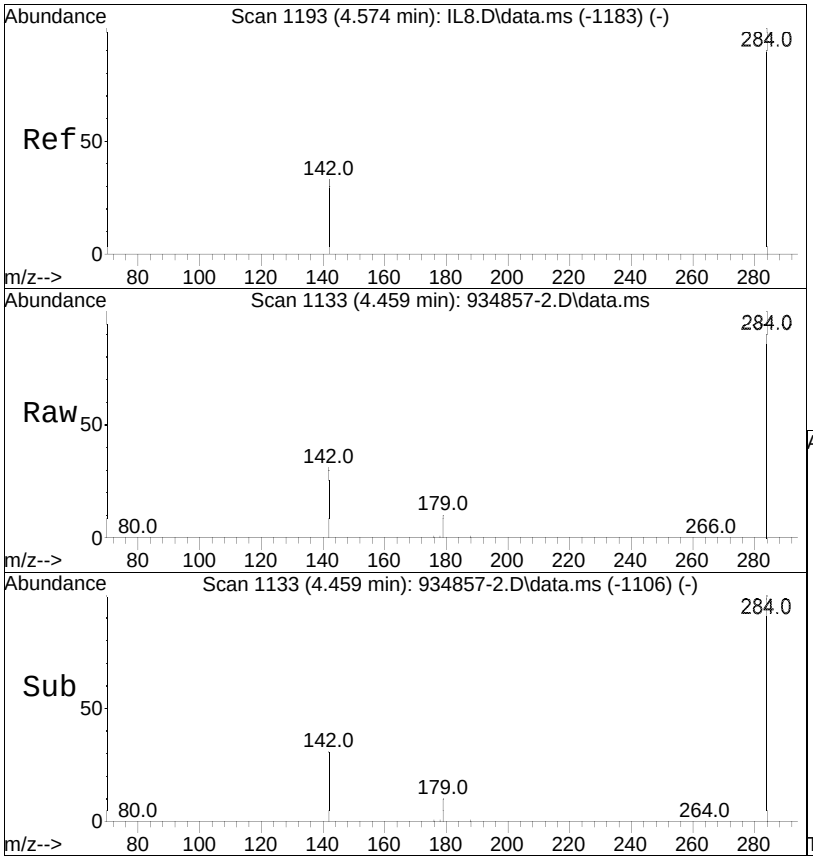


#20
Fluorene
Concen: 1479.10 ng/ml
RT: 4.143 min Scan# 1019
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:166 Resp: 150255

Ion	Ratio	Lower	Upper
166	100		
165	102.3	81.9	122.9

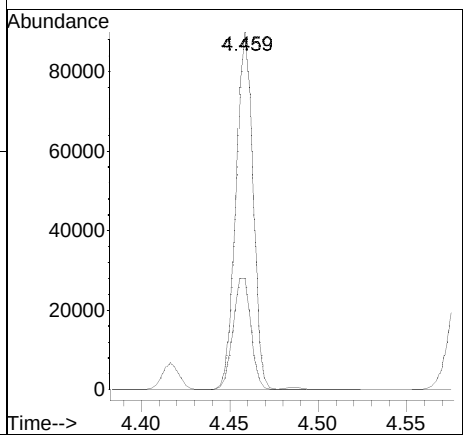


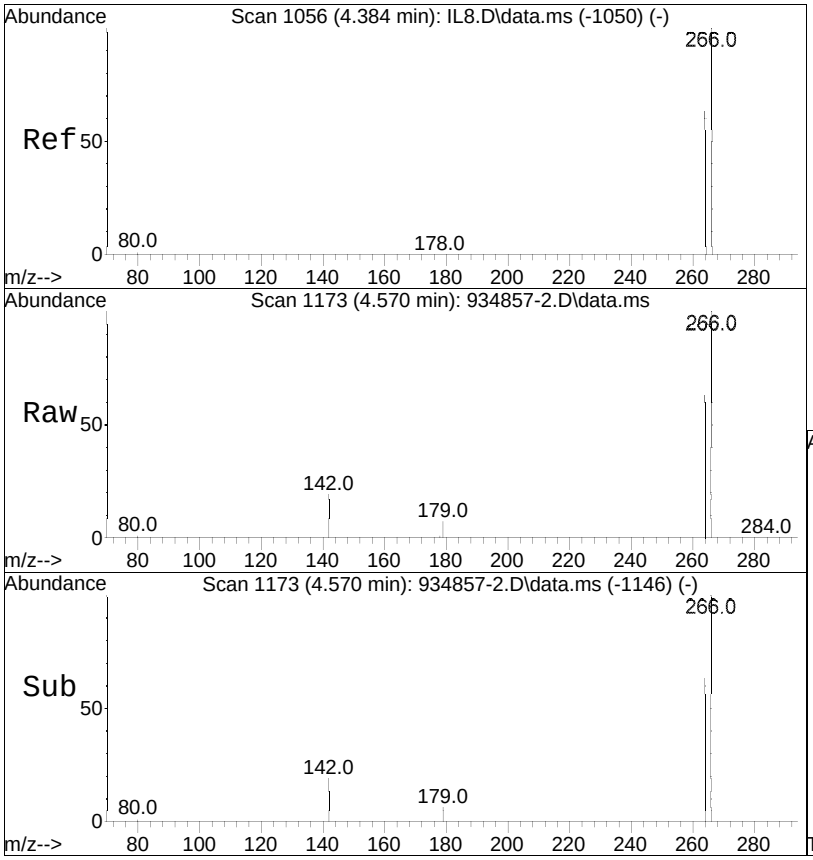


#24
Hexachlorobenzene
Concen: 1416.93 ng/ml
RT: 4.459 min Scan# 1133
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:284 Resp: 59972

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.8	40.2

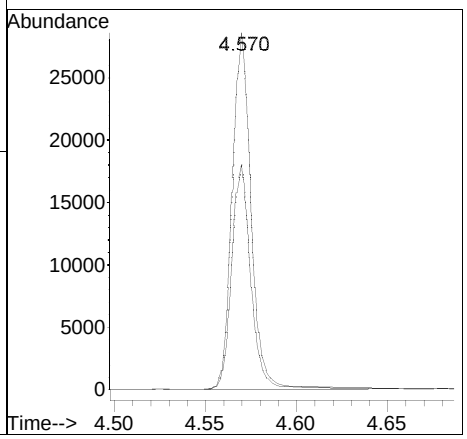


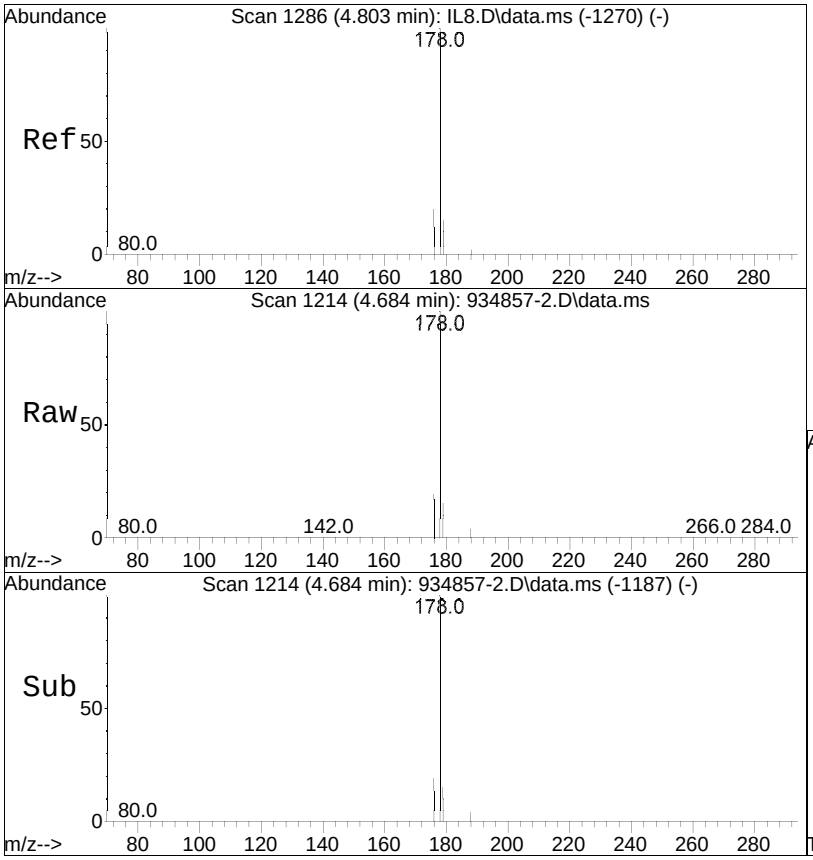


#25
Pentachlorophenol
Concen: 850.93 ng/ml
RT: 4.570 min Scan# 1173
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:266 Resp: 20576

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.2	75.2

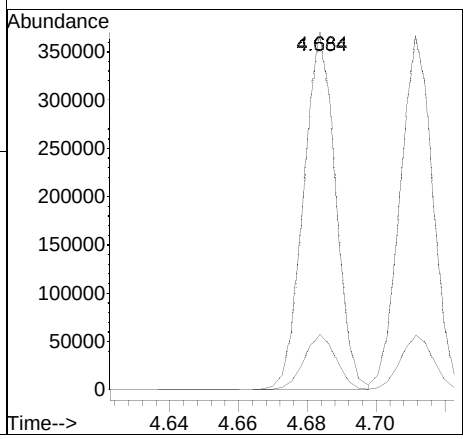


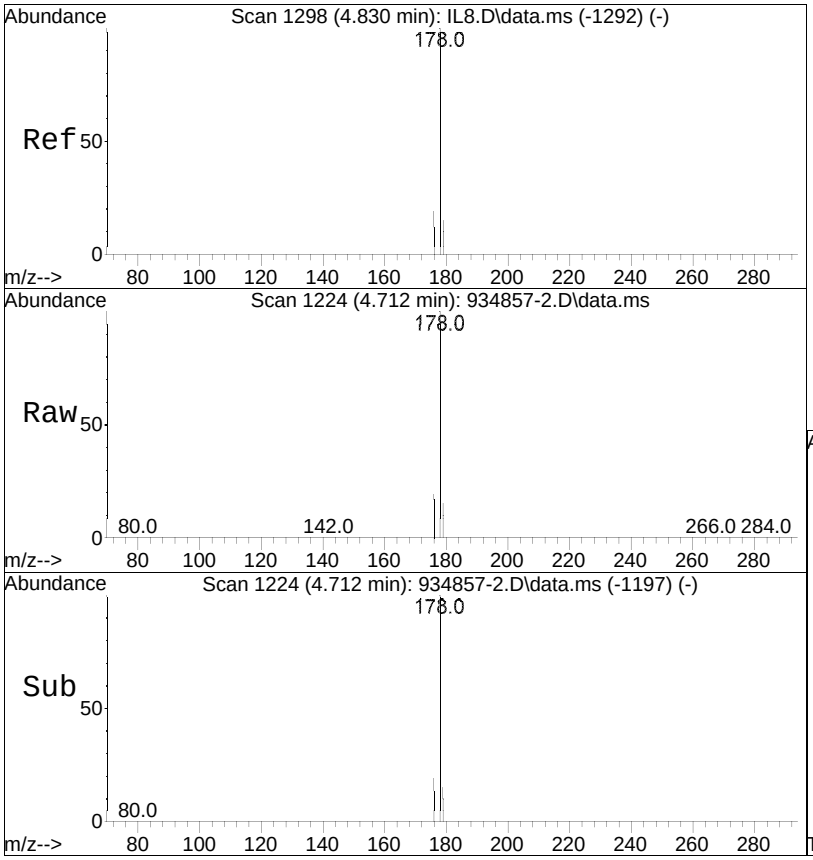


#26
Phenanthrene
Concen: 1450.89 ng/ml
RT: 4.684 min Scan# 1214
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:178 Resp: 239642

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

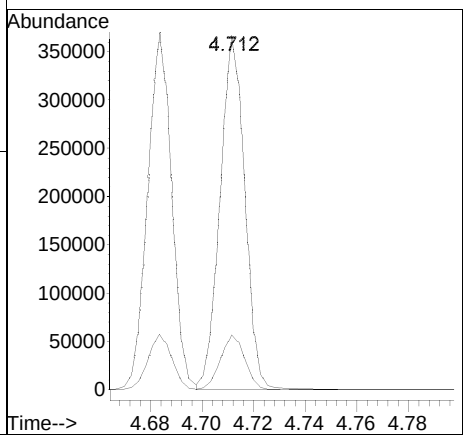


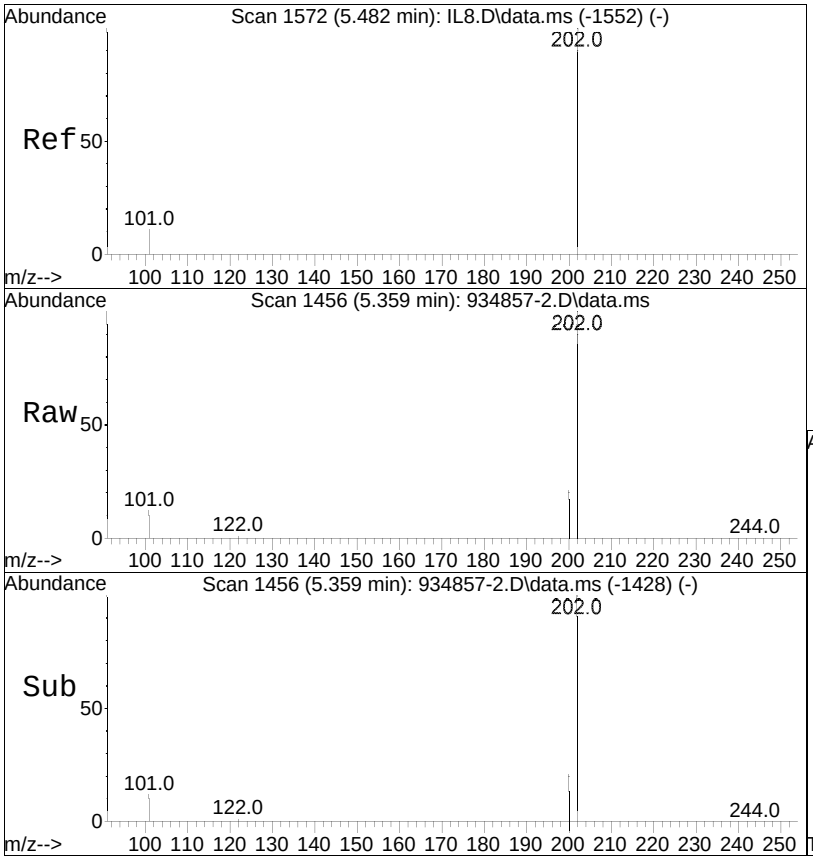


#27
Anthracene
Concen: 1490.95 ng/ml
RT: 4.712 min Scan# 1224
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:178 Resp: 243315

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

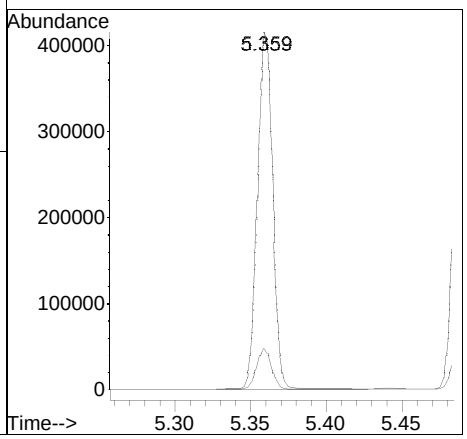


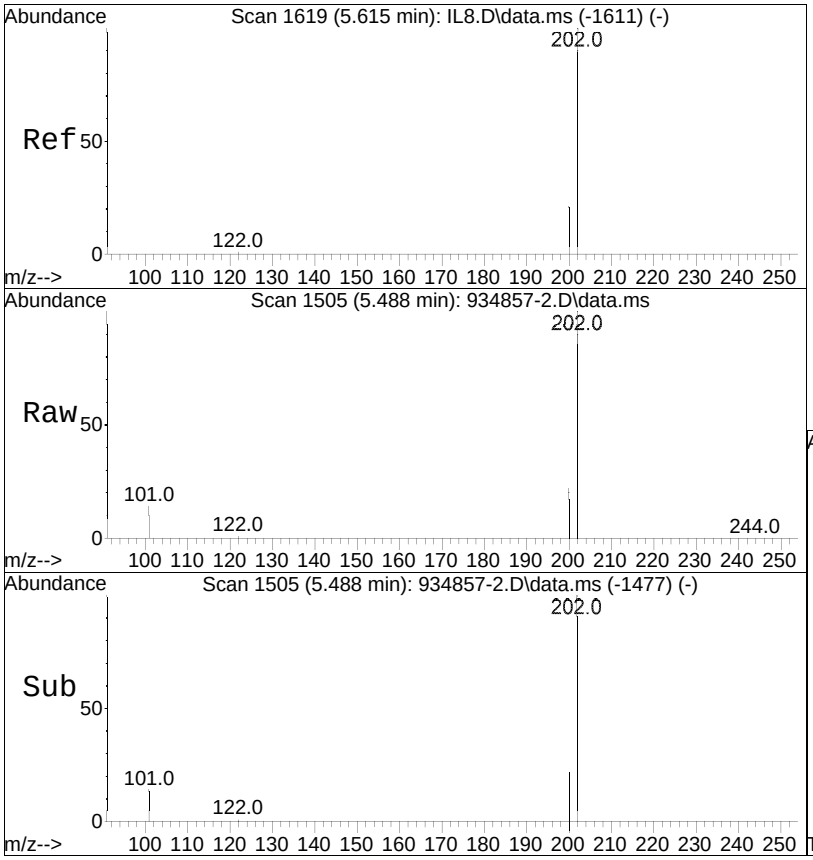


#28
Fluoranthene
Concen: 1617.97 ng/ml
RT: 5.359 min Scan# 1456
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:202 Resp: 289830

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.0	13.6

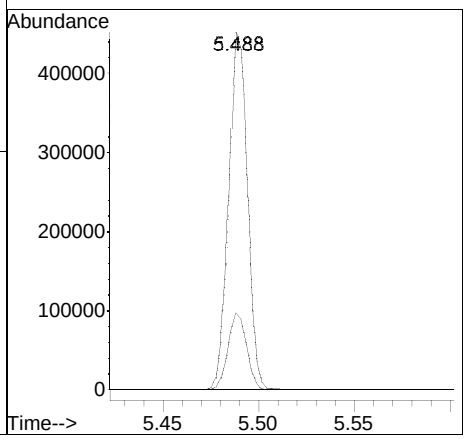


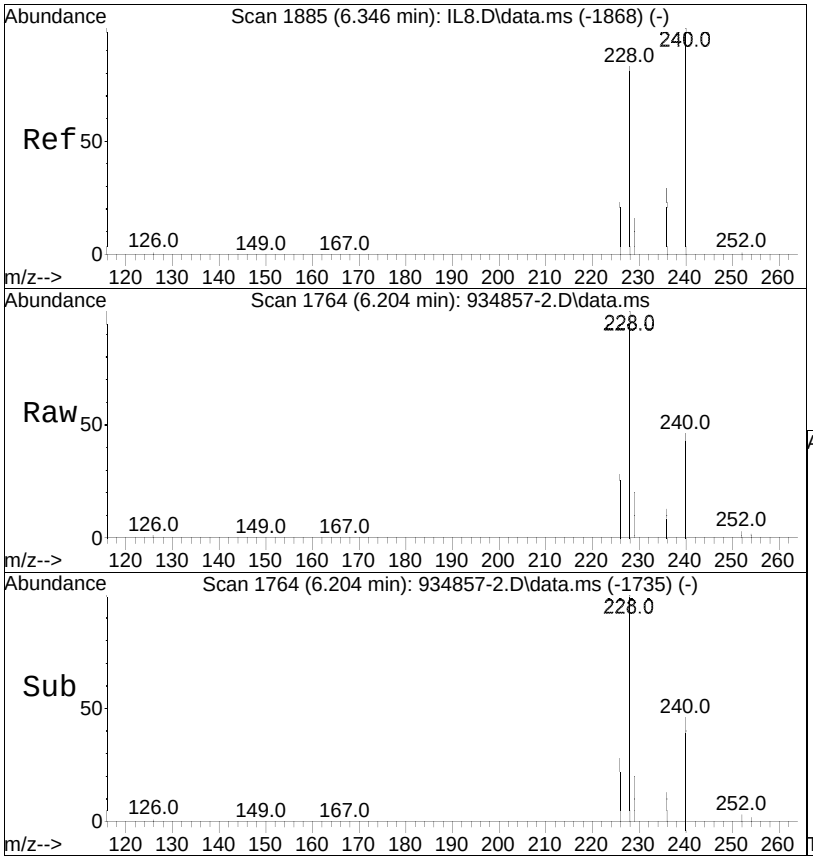


#29
Pyrene
Concen: 1637.75 ng/ml
RT: 5.488 min Scan# 1505
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:202 Resp: 304211

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8

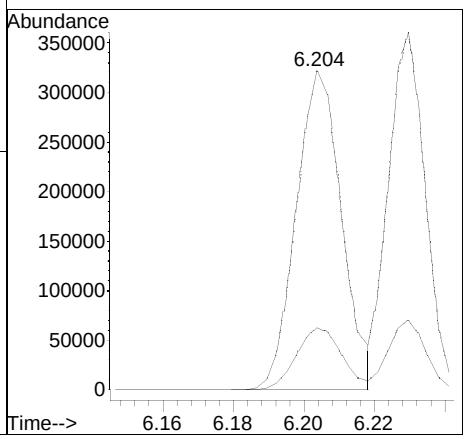


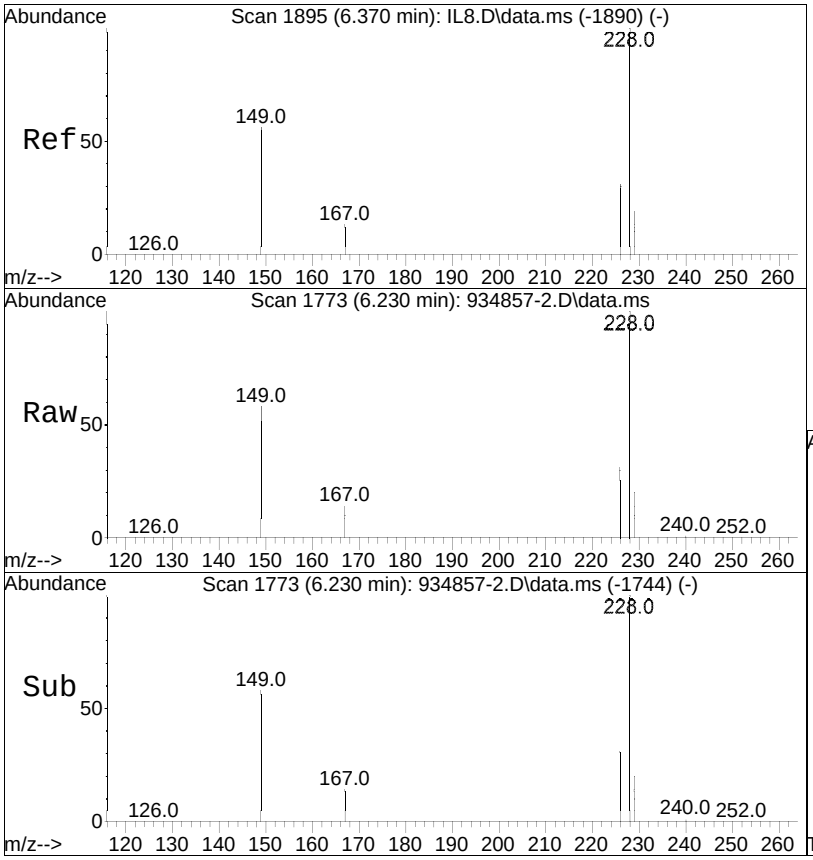


#32
Benzo[a]anthracene
Concen: 1480.43 ng/ml
RT: 6.204 min Scan# 1764
Delta R.T. 0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:228 Resp: 288137

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

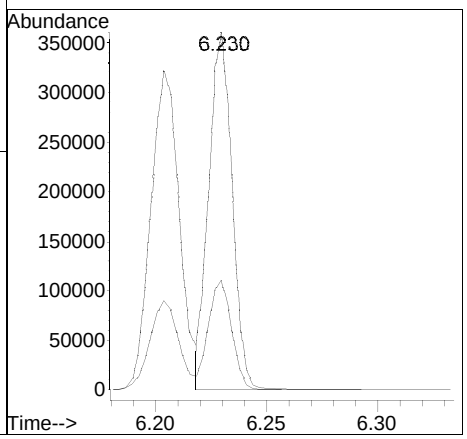


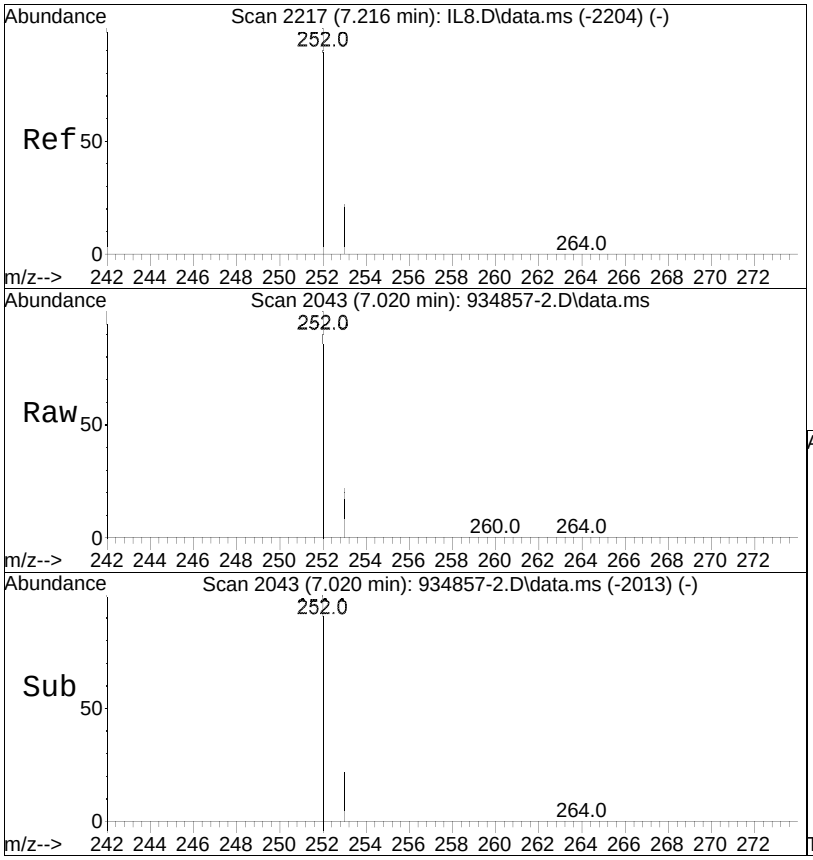


#34
Chrysene
Concen: 1423.72 ng/ml
RT: 6.230 min Scan# 1773
Delta R.T. 0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:228 Resp: 262354

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.1	37.7

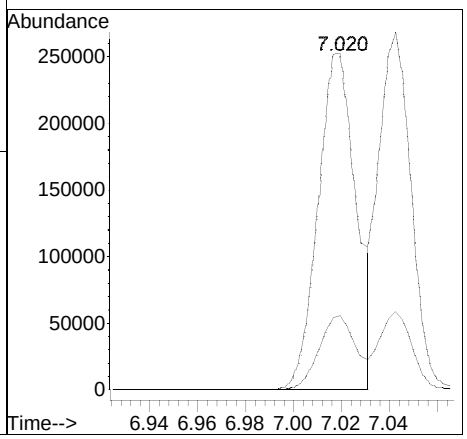


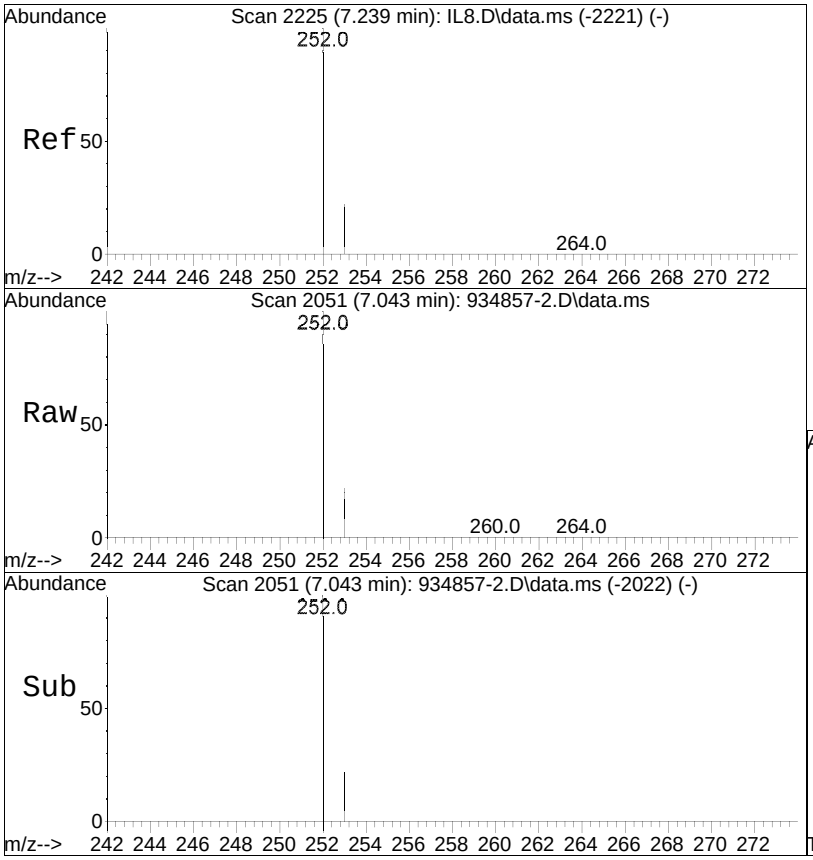


#37
Benzo[b]fluoranthene
Concen: 1616.83 ng/ml
RT: 7.020 min Scan# 2043
Delta R.T. 0.006 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:252 Resp: 277892

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

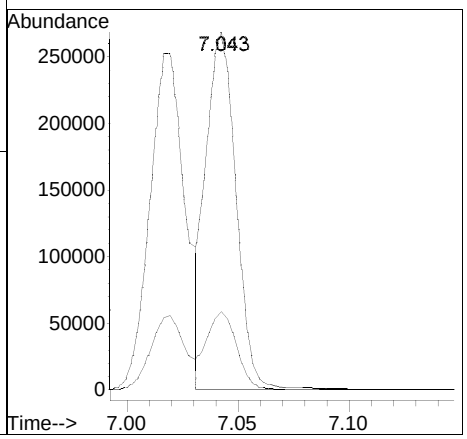


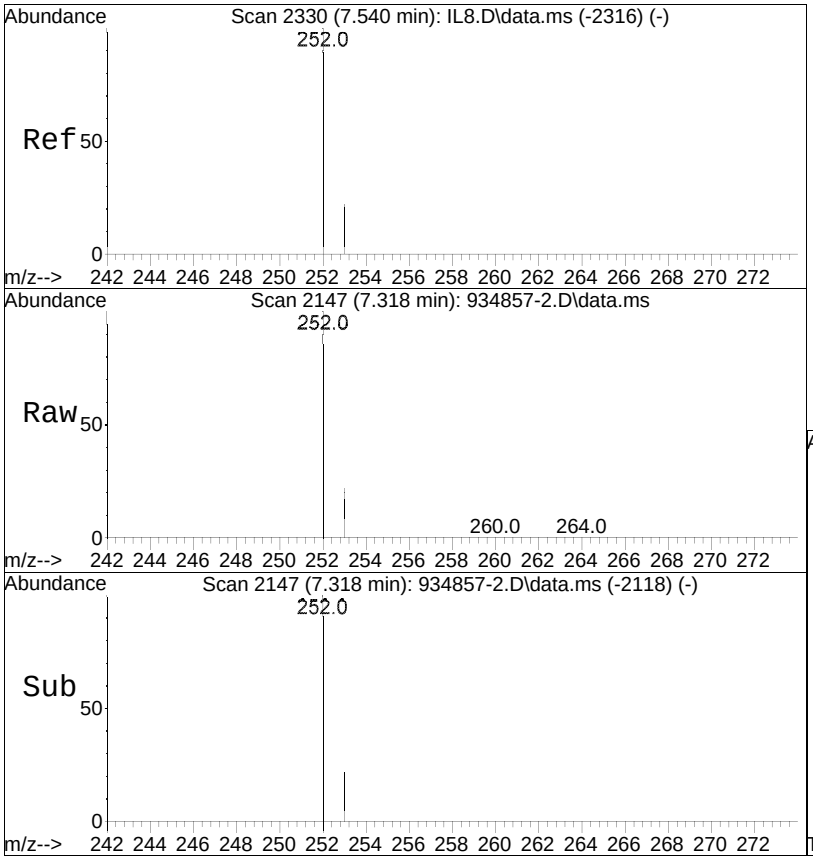


#38
Benzo[k]fluoranthene
Concen: 1528.72 ng/ml
RT: 7.043 min Scan# 2051
Delta R.T. 0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:252 Resp: 250142

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3

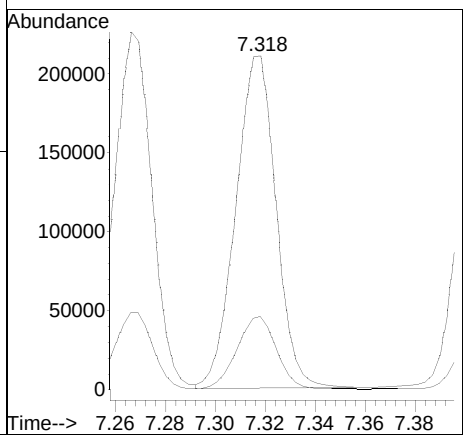


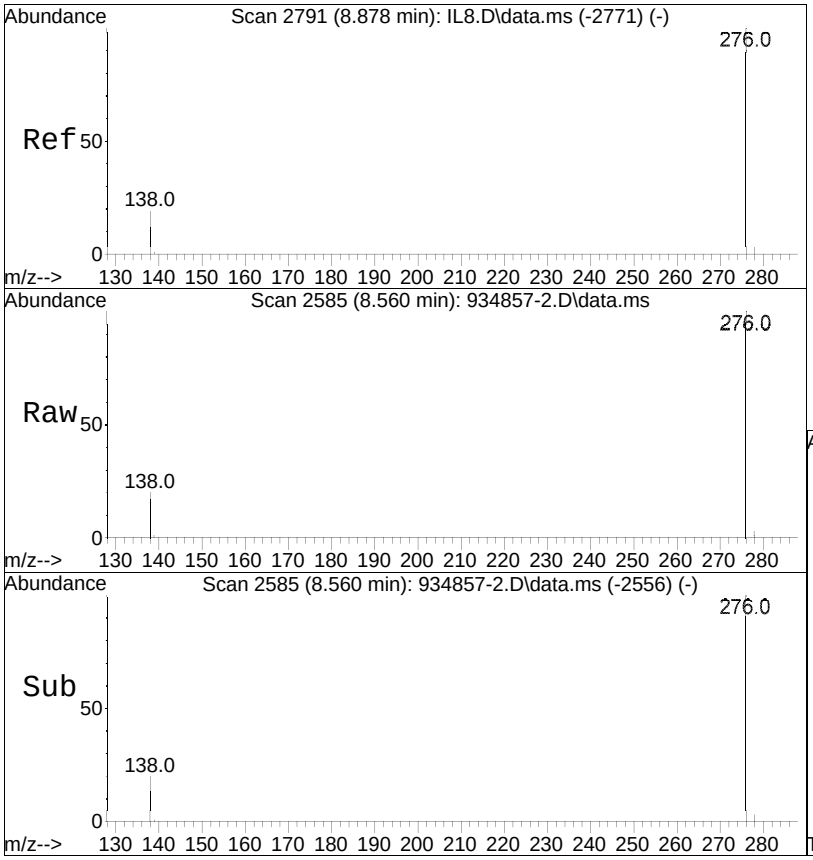


#39
Benzo[a]pyrene
Concen: 1658.03 ng/ml
RT: 7.318 min Scan# 2147
Delta R.T. 0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:252 Resp: 234912

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

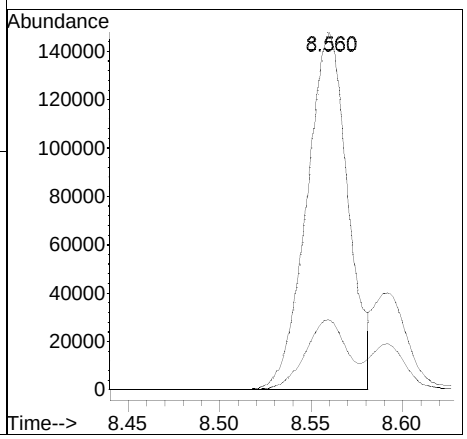


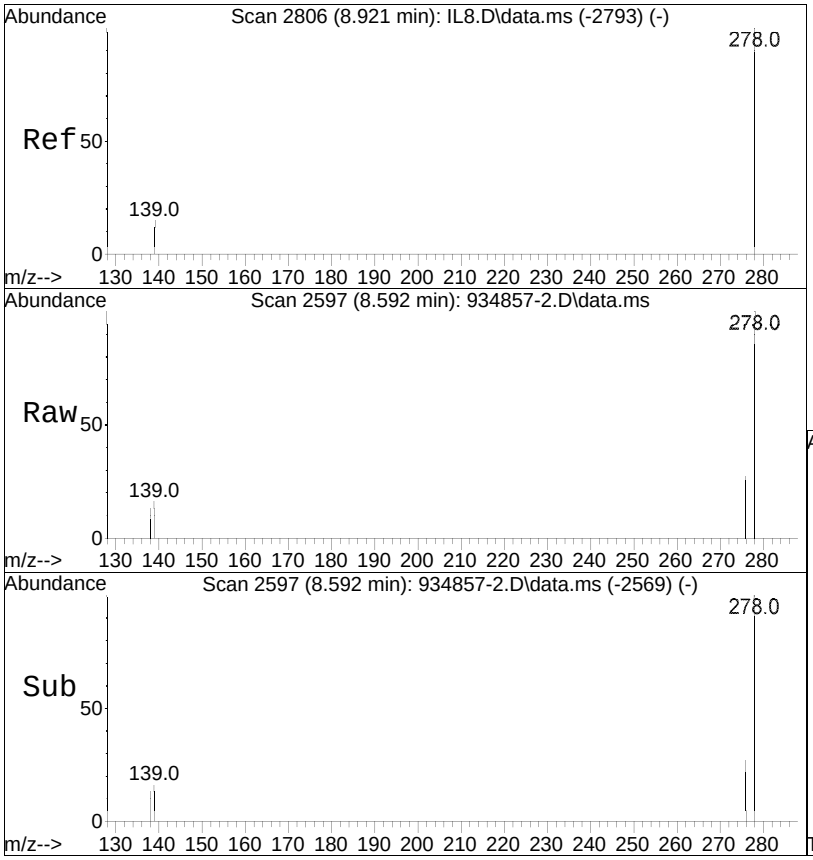


#40
Indeno[1,2,3-cd]pyrene
Concen: 1722.36 ng/ml
RT: 8.560 min Scan# 2585
Delta R.T. -0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:276 Resp: 229821

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

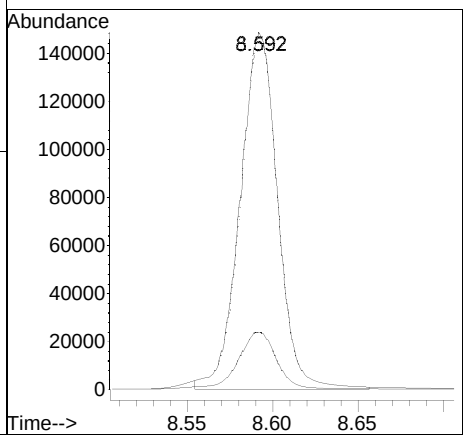


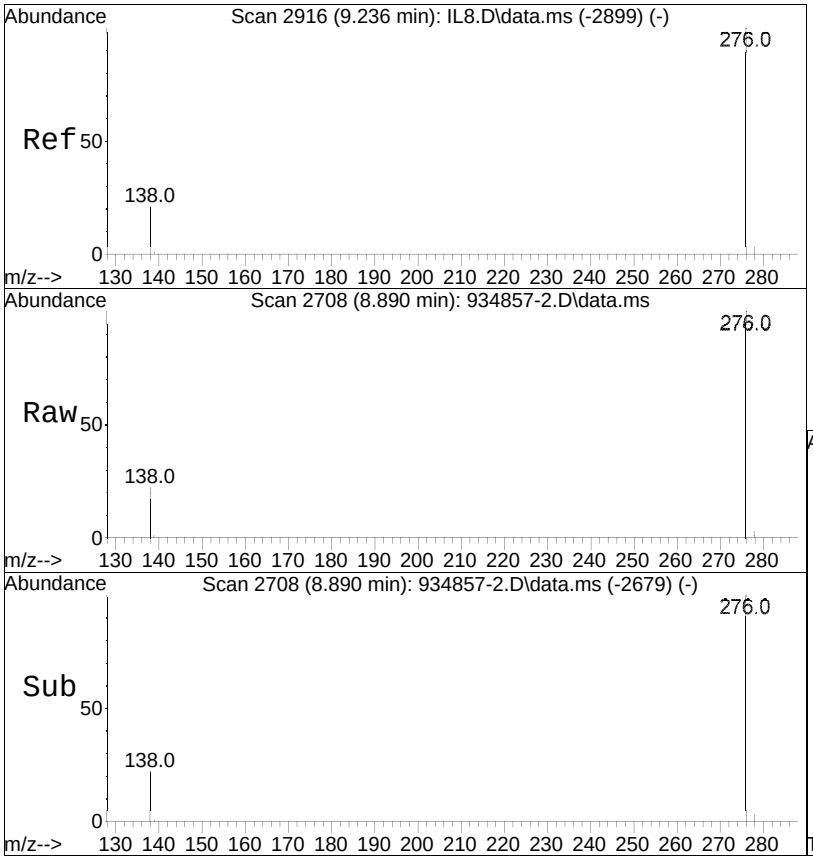


#41
Dibenzo[a,h]anthracene
Concen: 1759.53 ng/ml M6
RT: 8.592 min Scan# 2597
Delta R.T. -0.005 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:278 Resp: 224818

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.0	21.0

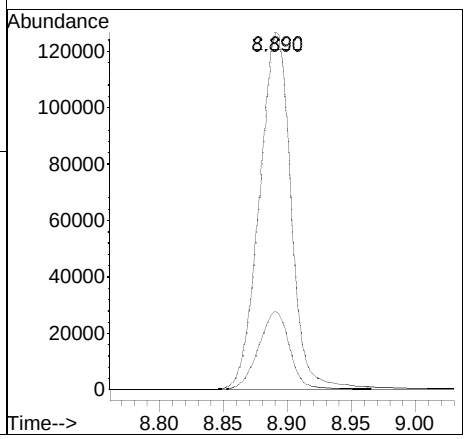




#42
Benzo[g,h,i]perylene
Concen: 1572.10 ng/ml
RT: 8.890 min Scan# 2708
Delta R.T. -0.003 min
Lab File: 934857-2.D
Acq: 17 Jun 2024 08:04 am

Tgt Ion:276 Resp: 213415

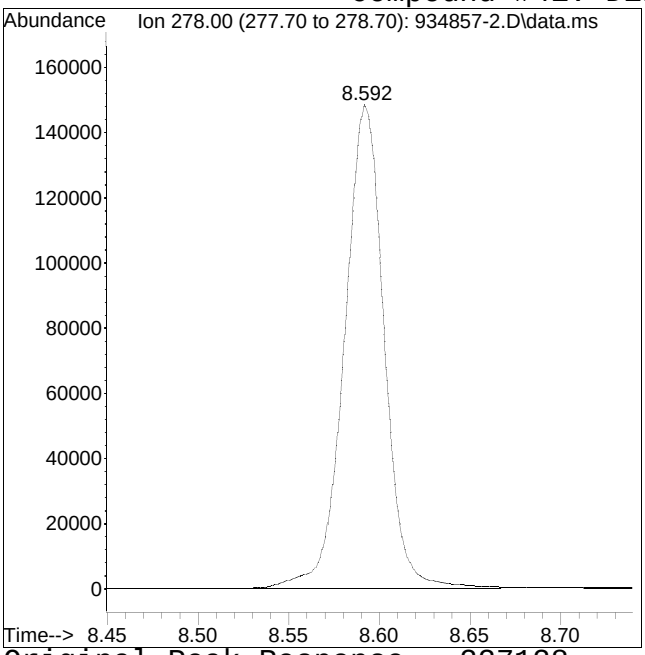
Ion	Ratio	Lower	Upper
276	100		
138	21.8	17.8	26.8



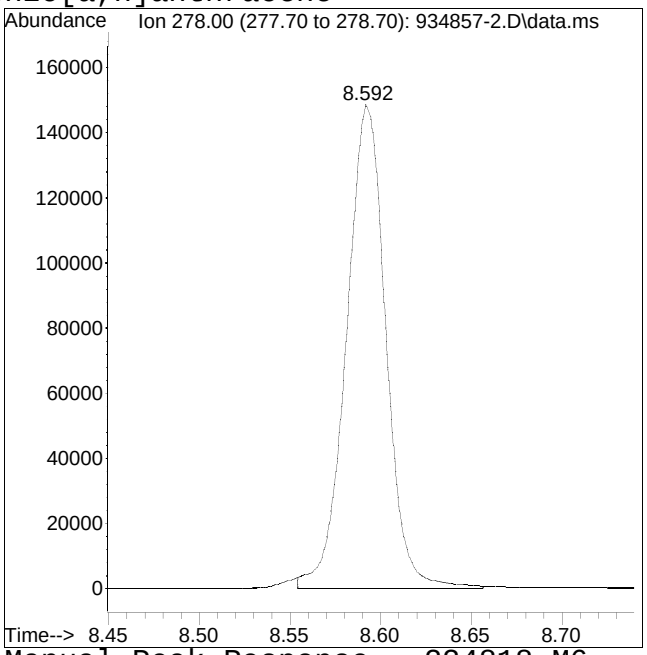
Manual Integration Report

Data Path : I:\8270SIM\sv120\240617RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 934857-2.D Operator : SV120:ah
Date Inj'd : 6/17/2024 8:04 am Instrument : SV120
Sample : WG1934857-2,32,,ah Quant Date : 6/17/2024 8:18 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 227128



Manual Peak Response = 224818 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-2.D
Acq On : 19 Jun 2024 11:00 am
Operator : SV120:jjw
Sample : WG1935742-2,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 15:10:43 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.205	152	107574	4000.000	ng/ml	0.03
Standard Area 1 = 132040			Recovery = 81.47%			
8) Naphthalene-d8	2.864	136	407053	4000.000	ng/ml	0.02
Standard Area 1 = 488520			Recovery = 83.32%			
17) Acenaphthene-d10	3.835	164	217038	4000.000	ng/ml	0.02
Standard Area 1 = 278744			Recovery = 77.86%			
22) Phenanthrene-d10	4.672	188	442036	4000.000	ng/ml	0.01
Standard Area 1 = 573885			Recovery = 77.03%			
31) Chrysene-d12	6.218	240	371883M2	4000.000	ng/ml	-0.12
Standard Area 1 = 483963			Recovery = 76.84%			
36) Perylene-d12	7.386	264	379965M2	4000.000	ng/ml	-0.12
Standard Area 1 = 464613			Recovery = 81.78%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.642	112	28252	883.642	ng/ml	0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.18%			
3) Phenol-d6	2.024	99	28862	750.986	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.55%			
7) Nitrobenzene-d5	2.484	82	22937	669.854	ng/ml	0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.99%			
13) 2-Fluorobiphenyl	3.456	172	56805	656.310	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.63%			
21) 2,4,6-Tribromophenol	4.278	330	19284	1307.175	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 65.36%			
30) 4-Terphenyl-d14	5.586	244	74226M1	825.286	ng/ml	-0.05
Spiked Amount 2000.000	Range 30 - 130		Recovery = 41.26%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	44283	1303.699	ng/ml	97
6) Hexachloroethane	2.460	117	15250	990.861	ng/ml	98
9) Naphthalene	2.874	128	128964	1120.856	ng/ml	99
10) Hexachlorobutadiene	2.947	225	21542	978.745	ng/ml	99
11) 2-Methylnaphthalene	3.253	142	86086	1199.214	ng/ml	100
14) 2-Chloronaphthalene	3.521	162	88952	1212.384	ng/ml	93
16) Acenaphthylene	3.754	152	148318	1373.587	ng/ml	100
18) Acenaphthene	3.852	153	100638	1351.420	ng/ml	95
20) Fluorene	4.143	166	114765	1429.711	ng/ml	100

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-2.D
Acq On : 19 Jun 2024 11:00 am
Operator : SV120:jjw
Sample : WG1935742-2,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 15:10:43 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	4.458	284	45244	1420.539	ng/ml	98
25) Pentachlorophenol	4.569	266	14335	791.141	ng/ml	99
26) Phenanthrene	4.683	178	185590	1493.204	ng/ml	100
27) Anthracene	4.711	178	185327	1509.126	ng/ml	100
28) Fluoranthene	5.361	202	222279	1648.988	ng/ml	100
29) Pyrene	5.491	202	230882M3	1651.793	ng/ml	
32) Benzo[a]anthracene	6.209	228	214000M2	1503.178	ng/ml	
34) Chrysene	6.232	228	204800M2	1519.294	ng/ml	
37) Benzo[b]fluoranthene	7.025	252	208762M3	1661.605	ng/ml	
38) Benzo[k]fluoranthene	7.048	252	200440M3	1675.768	ng/ml	
39) Benzo[a]pyrene	7.323	252	180341M1	1741.283	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.565	276	178162M2	1826.581	ng/ml	
41) Dibenzo[a,h]anthracene	8.600	278	173372M2	1856.238	ng/ml	
42) Benzo[g,h,i]perylene	8.898	276	166973M2	1682.634	ng/ml	

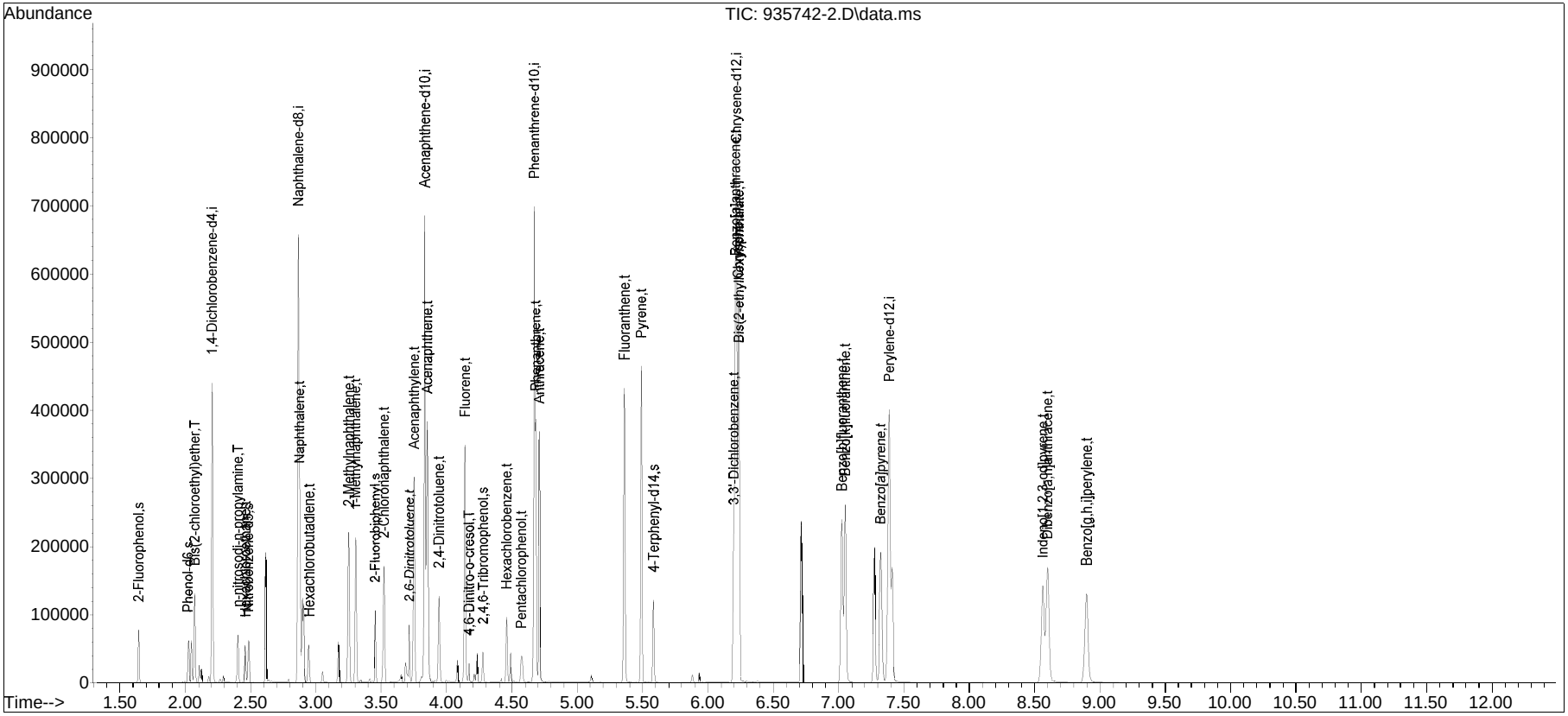
(#) = qualifier out of range (m) = manual integration (+) = signals summed

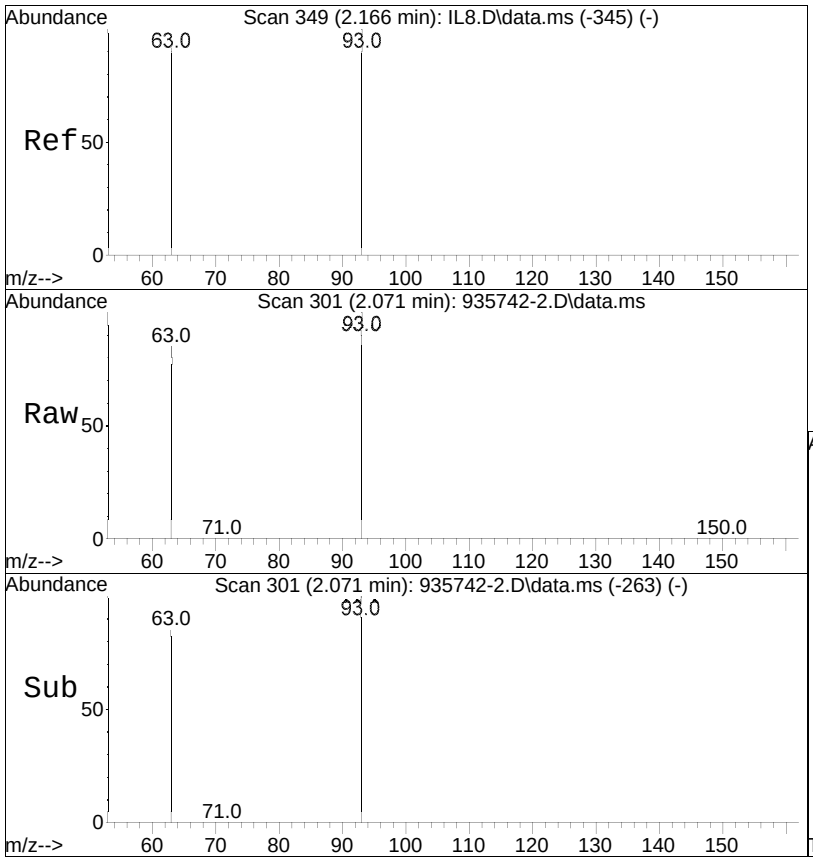
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-2.D
Acq On : 19 Jun 2024 11:00 am
Operator : SV120:jjw
Sample : WG1935742-2,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 15:10:43 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•

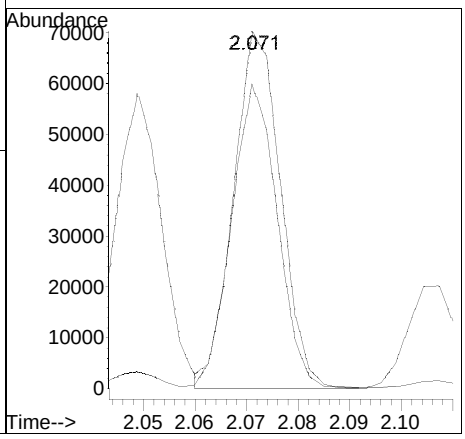


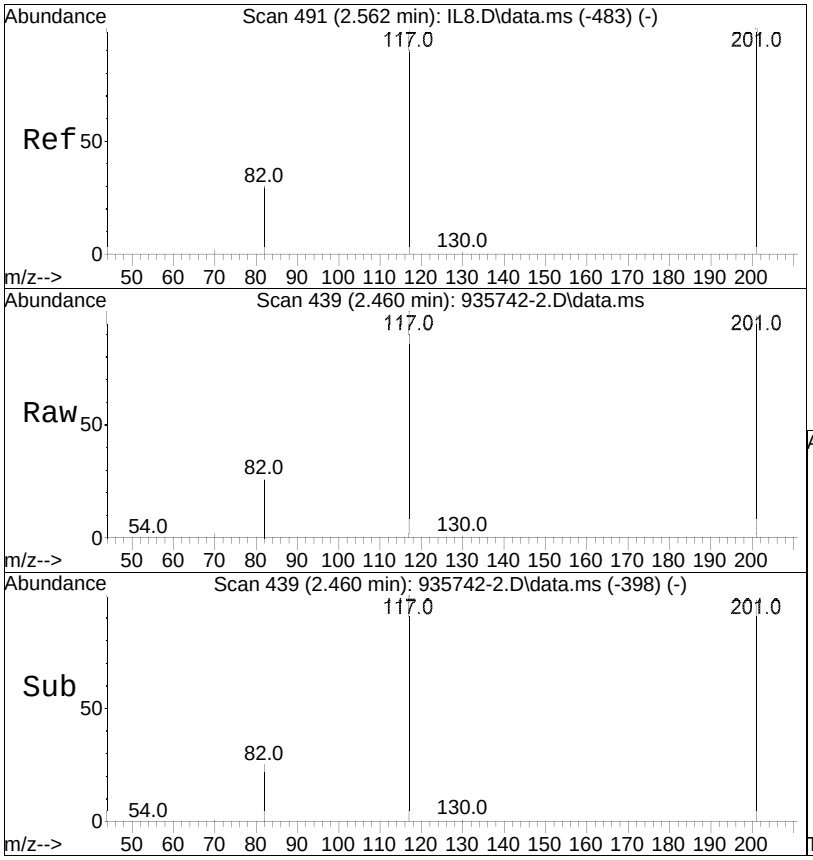


#4
Bis(2-chloroethyl)ether
Concen: 1303.70 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. 0.025 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion: 93 Resp: 44283

Ion	Ratio	Lower	Upper
93	100		
63	83.0	68.6	102.8

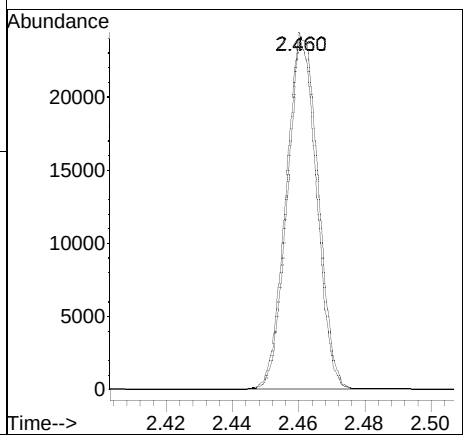


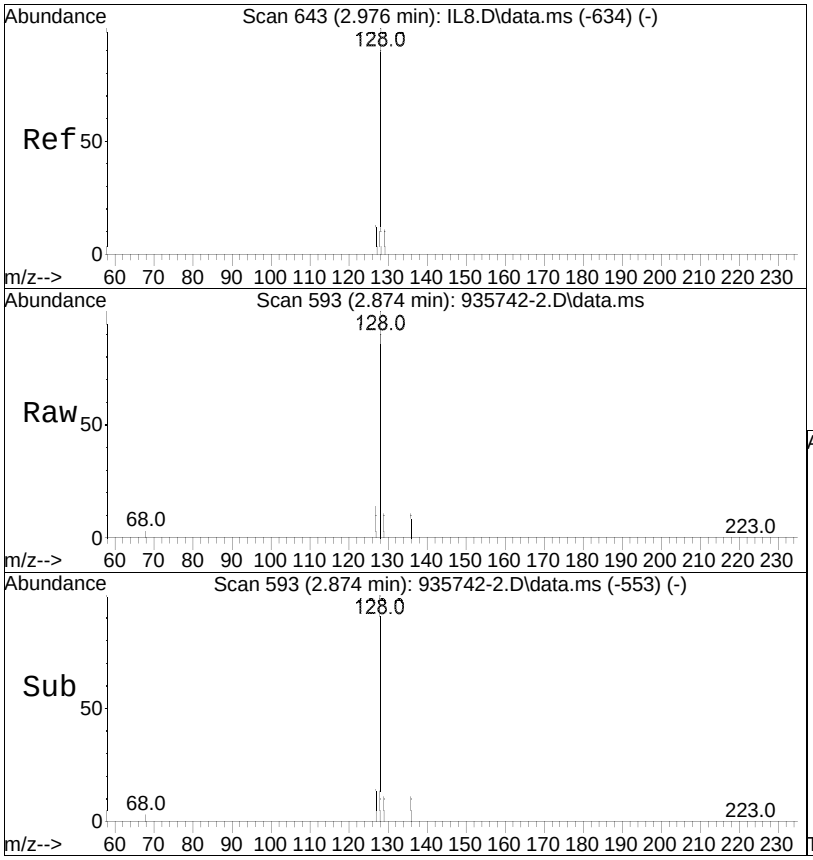


#6
Hexachloroethane
Concen: 990.86 ng/ml
RT: 2.460 min Scan# 439
Delta R.T. 0.026 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:117 Resp: 15250

Ion	Ratio	Lower	Upper
117	100		
201	101.2	79.4	119.2

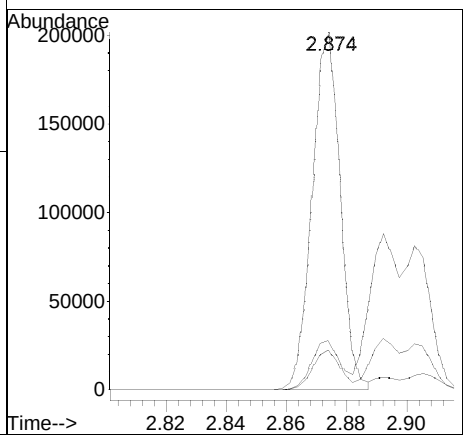


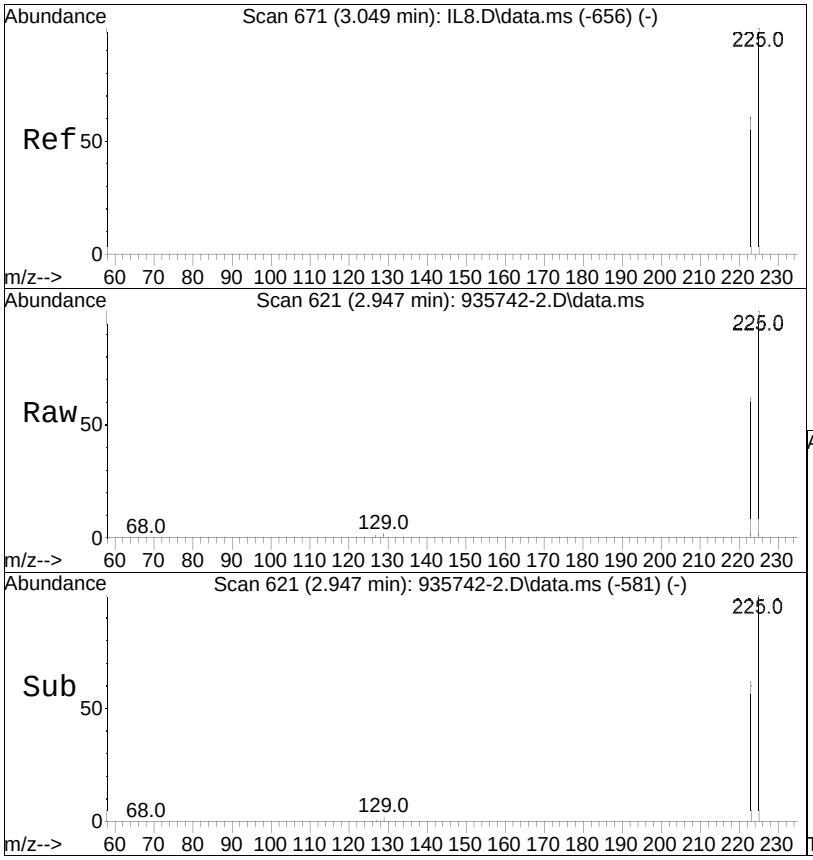


#9
Naphthalene
Concen: 1120.86 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. 0.024 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:128 Resp: 128964

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	14.5	11.3	16.9

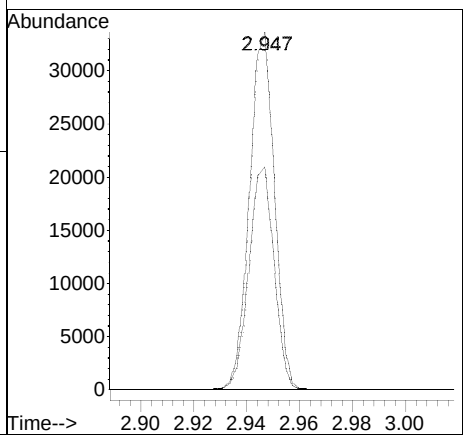


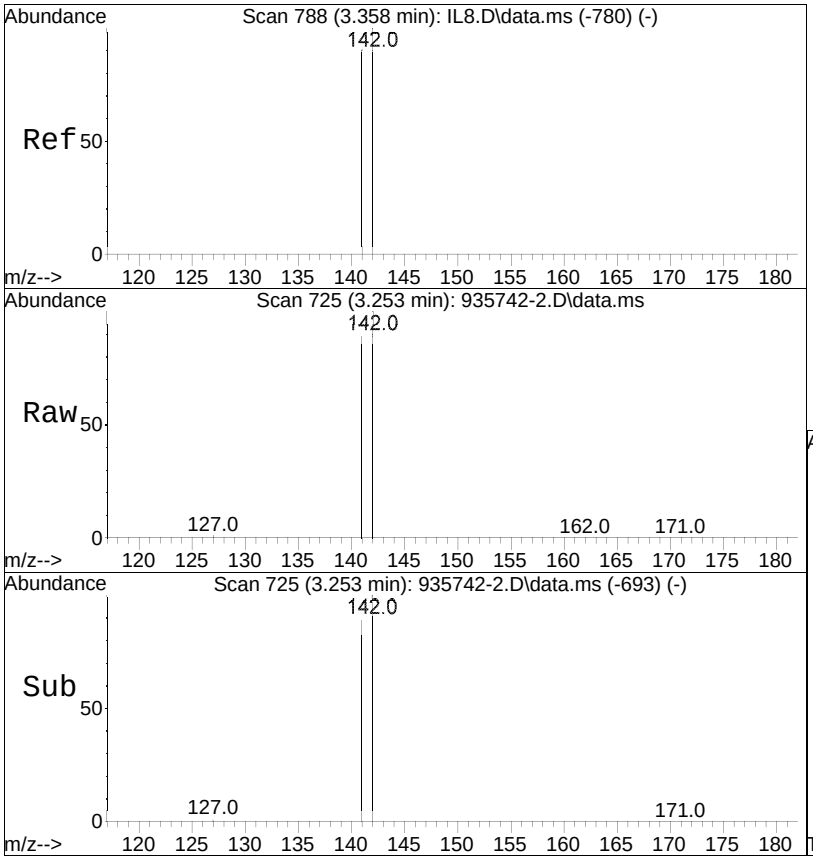


#10
Hexachlorobutadiene
Concen: 978.74 ng/ml
RT: 2.947 min Scan# 621
Delta R.T. 0.024 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:225 Resp: 21542

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.1	75.1

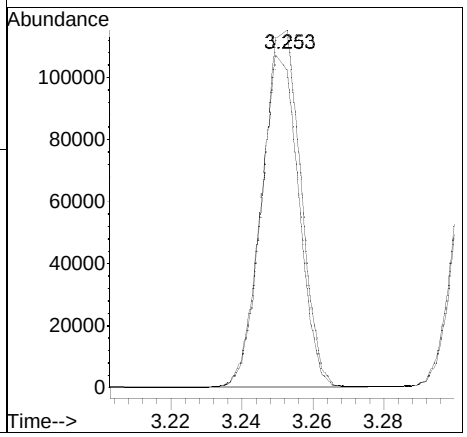


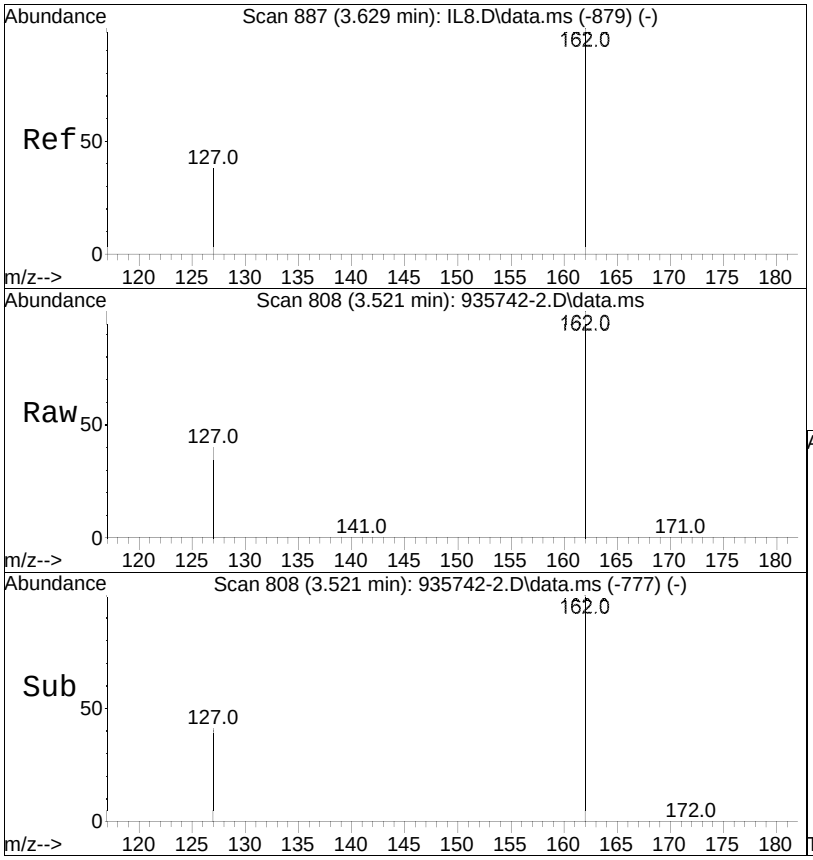


#11
2-Methylnaphthalene
Concen: 1199.21 ng/ml
RT: 3.253 min Scan# 725
Delta R.T. 0.024 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:142 Resp: 86086

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6

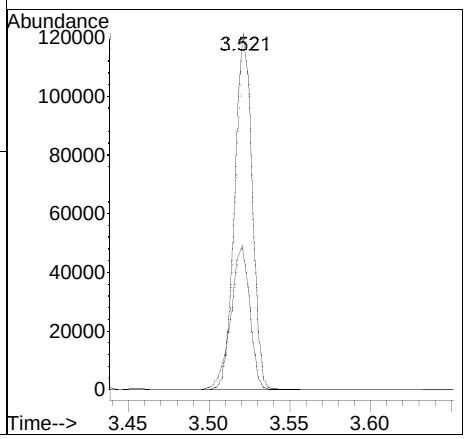


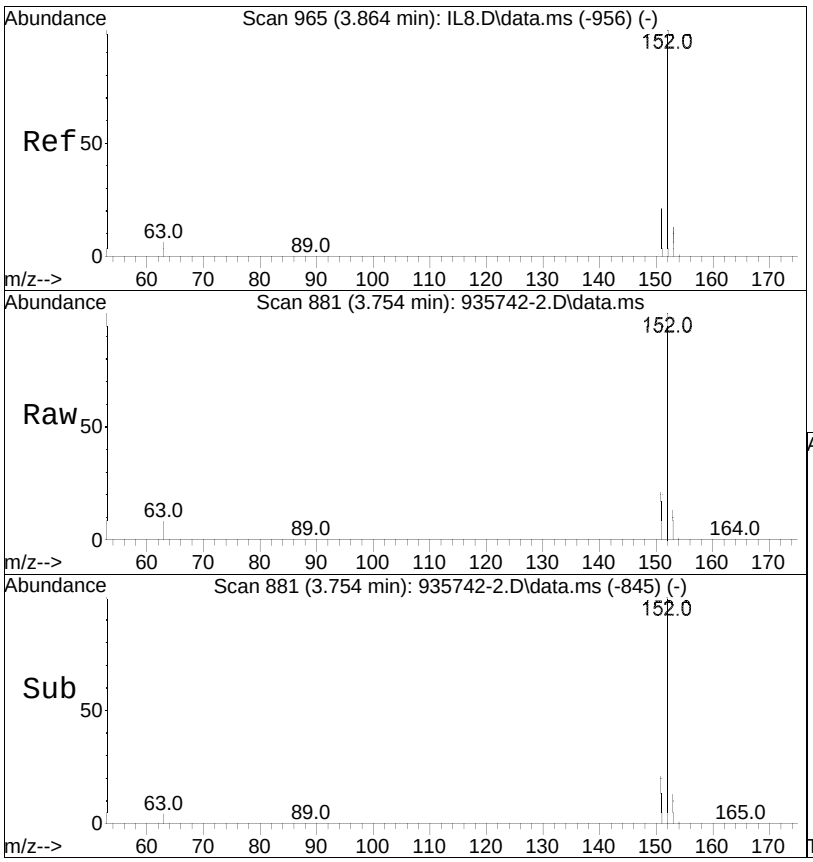


#14
2-Chloronaphthalene
Concen: 1212.38 ng/ml
RT: 3.521 min Scan# 808
Delta R.T. 0.020 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:162 Resp: 88952

Ion	Ratio	Lower	Upper
162	100		
127	44.2	32.0	48.0

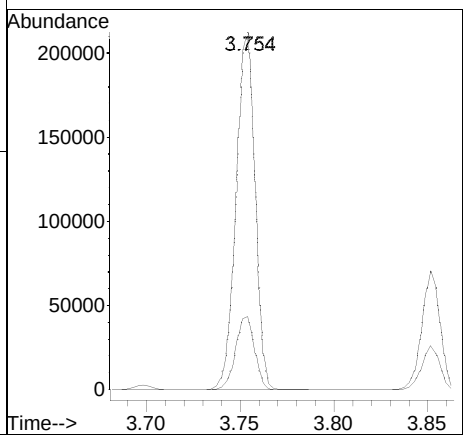


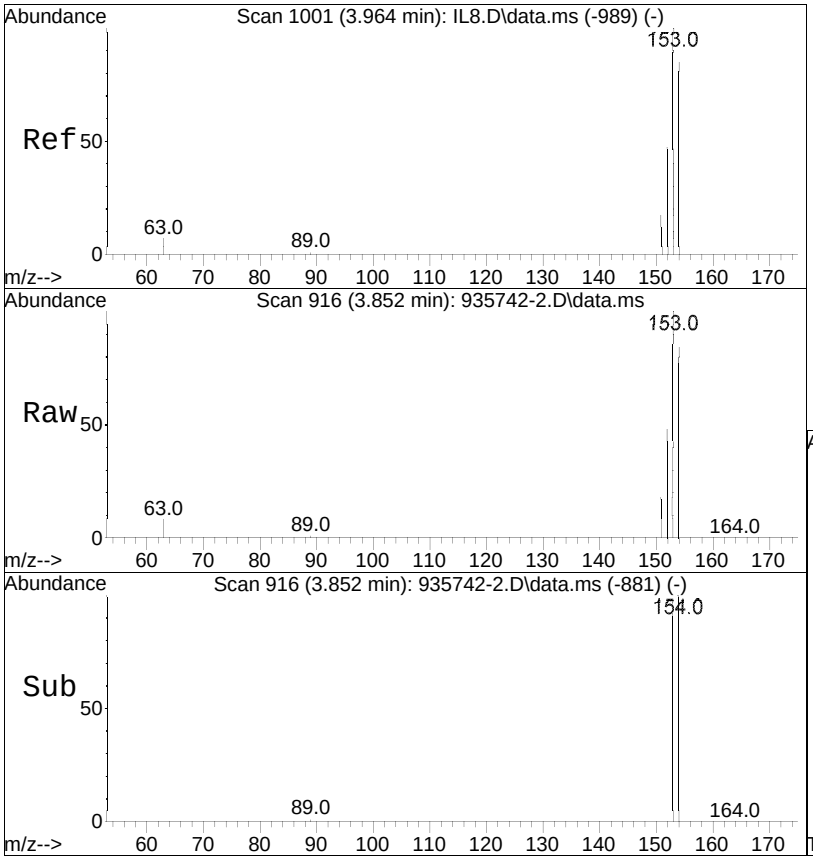


#16
Acenaphthylene
Concen: 1373.59 ng/ml
RT: 3.754 min Scan# 881
Delta R.T. 0.021 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:152 Resp: 148318

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

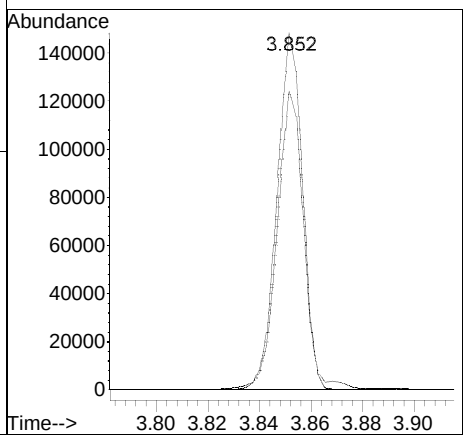


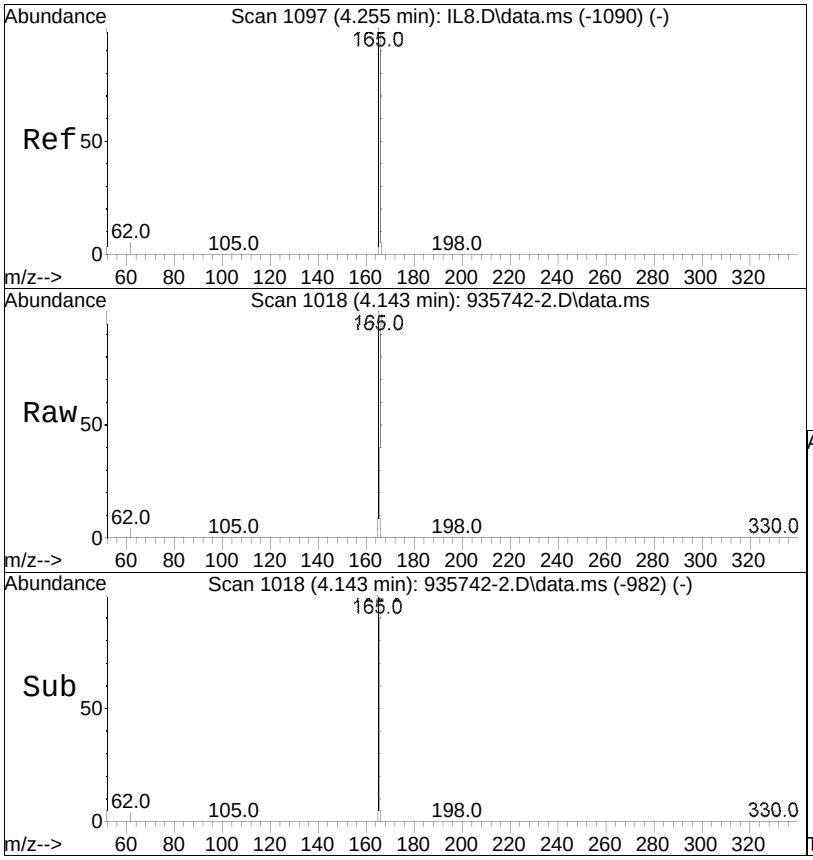


#18
Acenaphthene
Concen: 1351.42 ng/ml
RT: 3.852 min Scan# 916
Delta R.T. 0.018 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:153 Resp: 100638

Ion	Ratio	Lower	Upper
153	100		
154	87.4	73.4	110.2

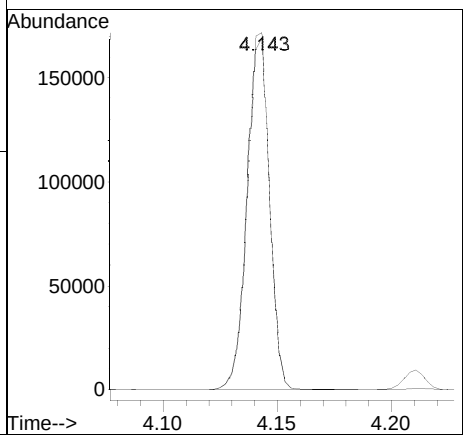


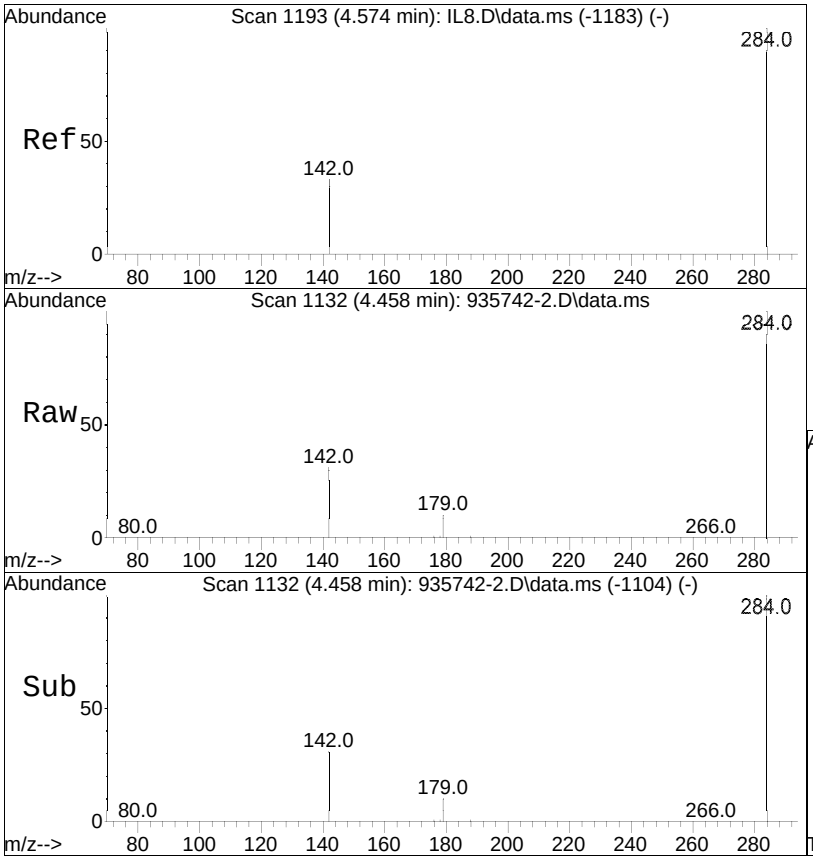


#20
Fluorene
Concen: 1429.71 ng/ml
RT: 4.143 min Scan# 1018
Delta R.T. 0.020 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:166 Resp: 114765

Ion	Ratio	Lower	Upper
166	100		
165	102.3	81.9	122.9

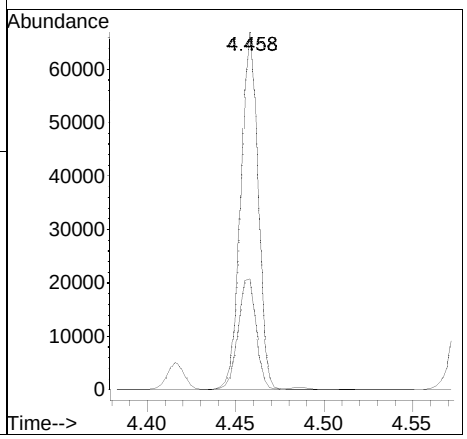


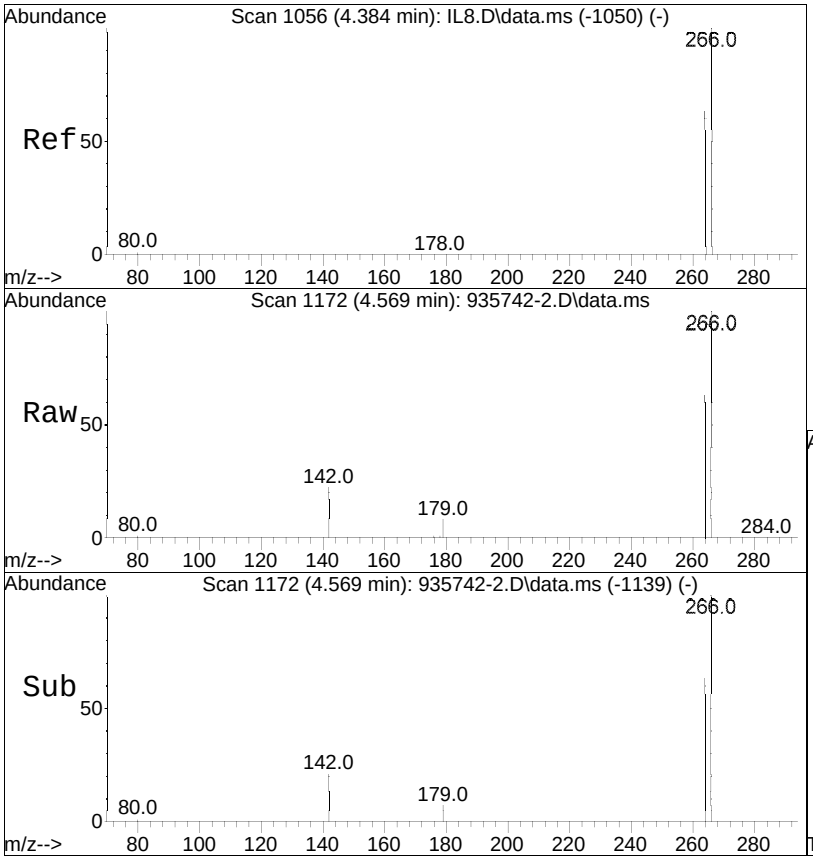


#24
Hexachlorobenzene
Concen: 1420.54 ng/ml
RT: 4.458 min Scan# 1132
Delta R.T. 0.013 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:284 Resp: 45244

Ion	Ratio	Lower	Upper
284	100		
142	32.2	26.8	40.2

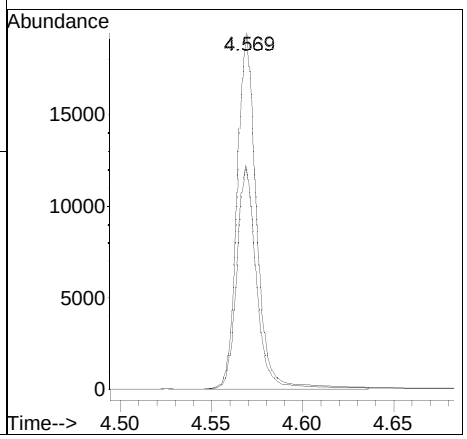


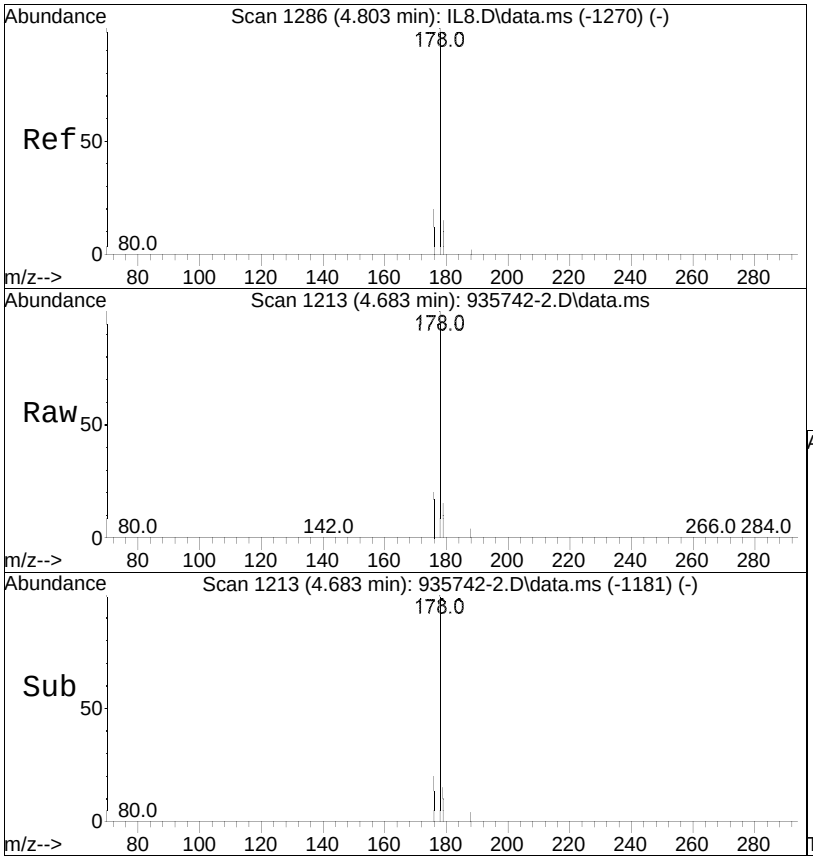


#25
Pentachlorophenol
Concen: 791.14 ng/ml
RT: 4.569 min Scan# 1172
Delta R.T. 0.013 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:266 Resp: 14335

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.2	75.2

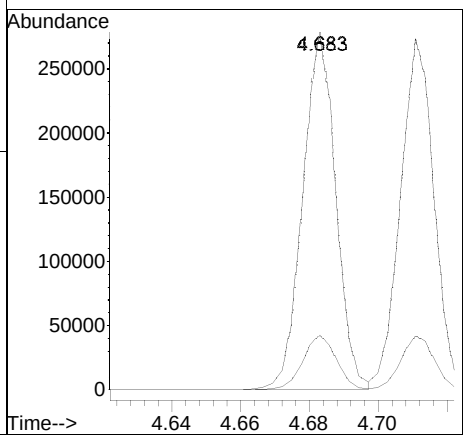


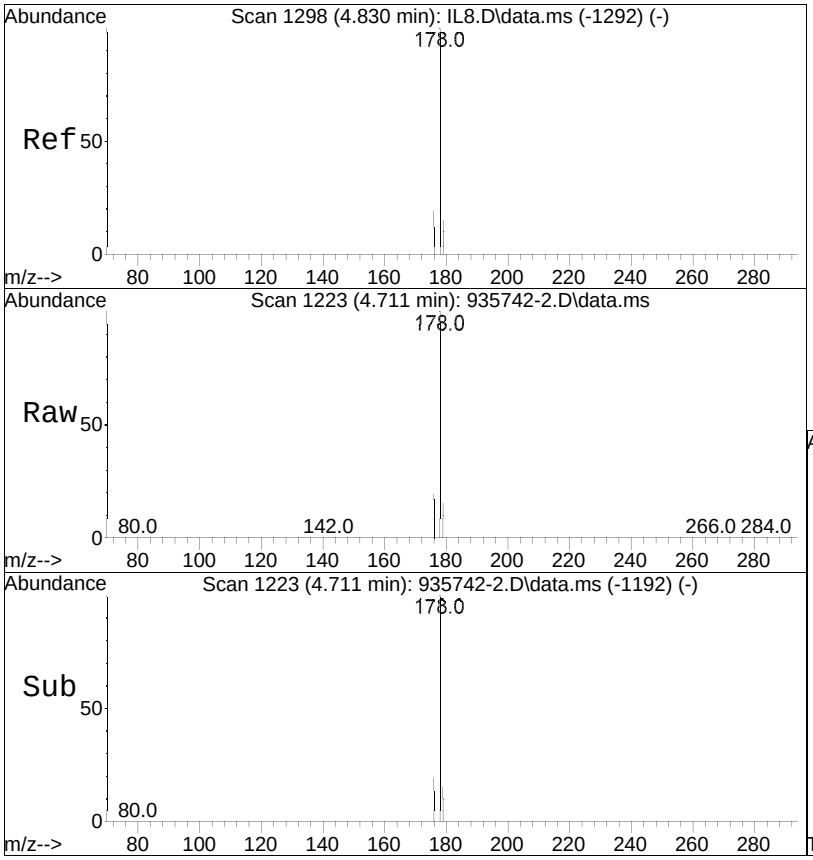


#26
Phenanthrene
Concen: 1493.20 ng/ml
RT: 4.683 min Scan# 1213
Delta R.T. 0.010 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:178 Resp: 185590

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

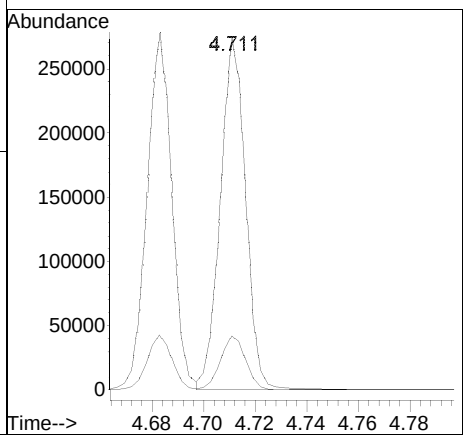


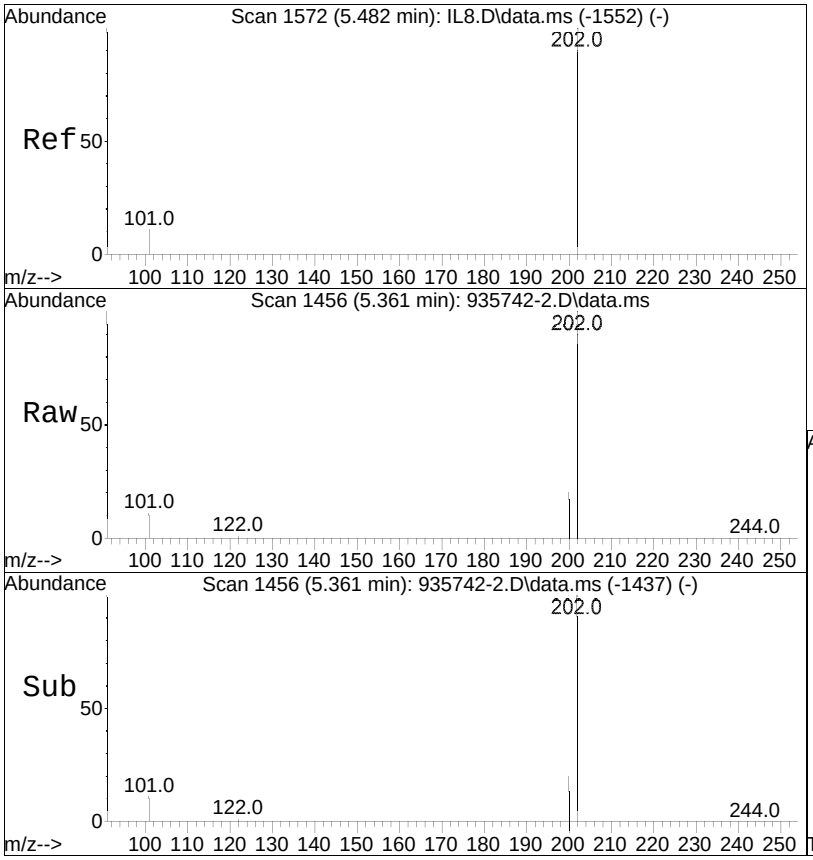


#27
Anthracene
Concen: 1509.13 ng/ml
RT: 4.711 min Scan# 1223
Delta R.T. 0.007 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:178 Resp: 185327

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

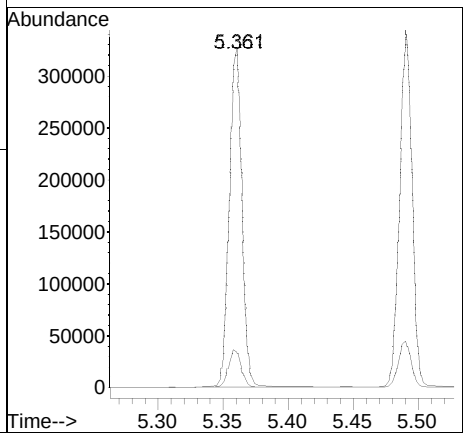


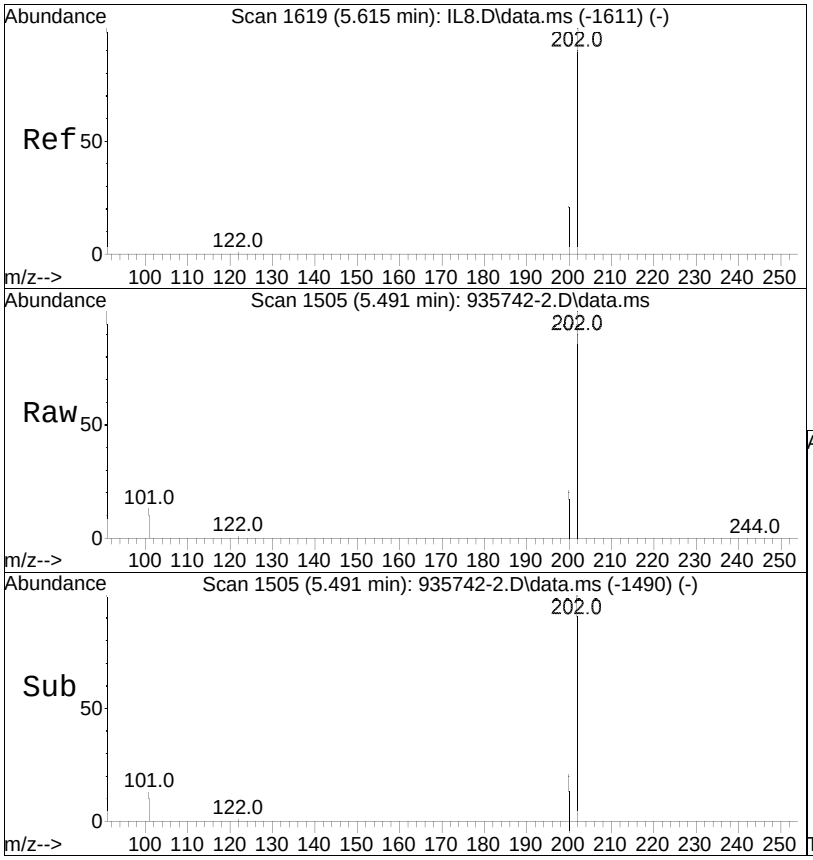


#28
Fluoranthene
Concen: 1648.99 ng/ml
RT: 5.361 min Scan# 1456
Delta R.T. -0.030 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:202 Resp: 222279

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6

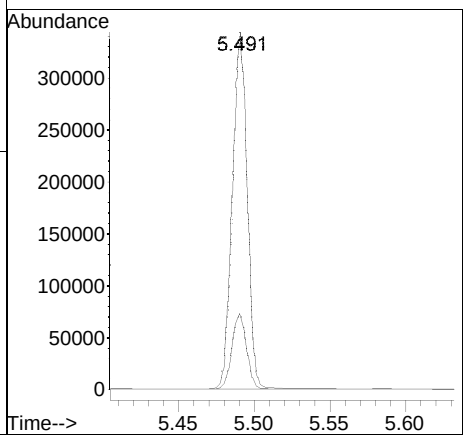


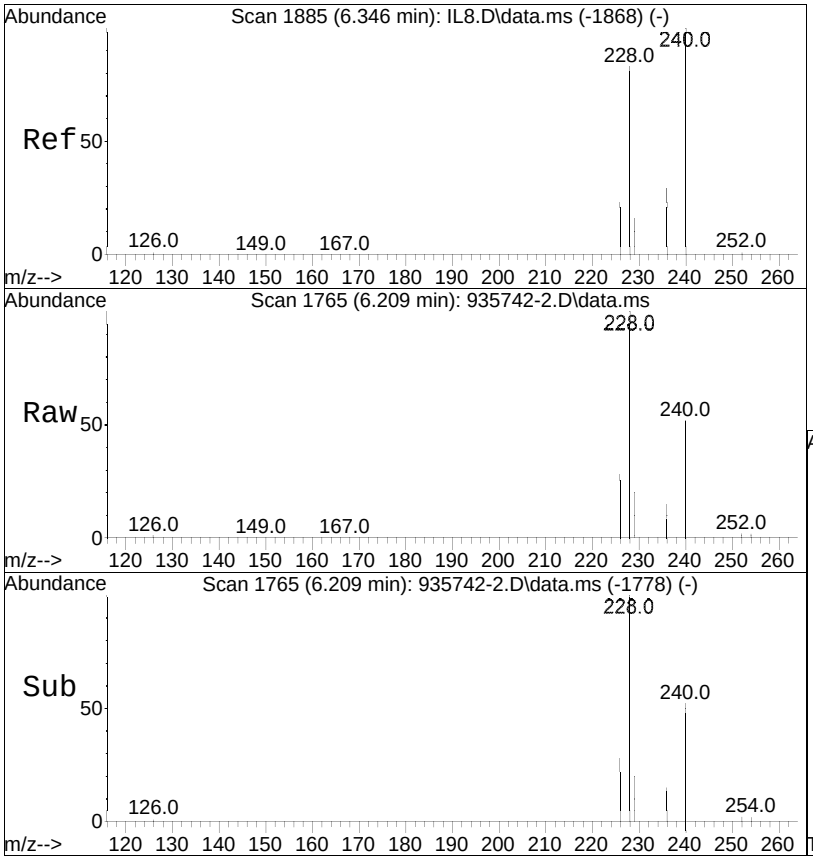


#29
Pyrene
Concen: 1651.79 ng/ml M3
RT: 5.491 min Scan# 1505
Delta R.T. -0.041 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:202 Resp: 230882

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8

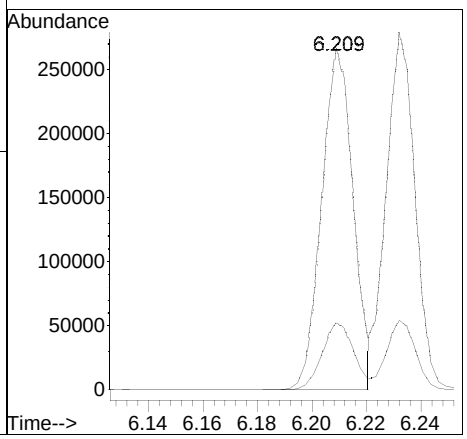


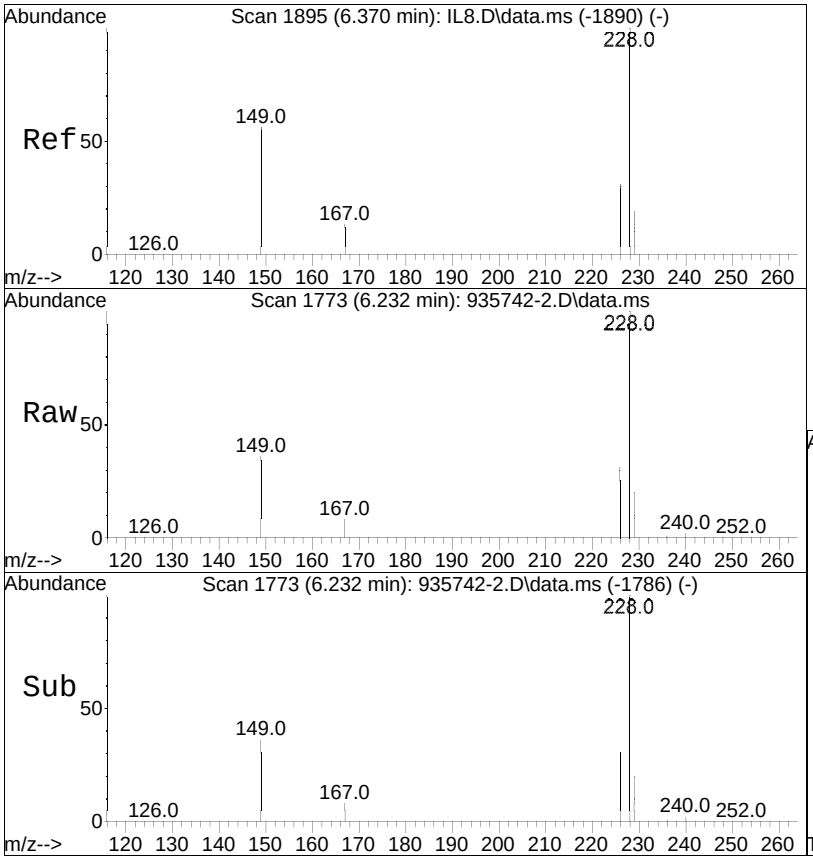


#32
Benzo[a]anthracene
Concen: 1503.18 ng/ml M2
RT: 6.209 min Scan# 1765
Delta R.T. -0.119 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:228 Resp: 214000

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

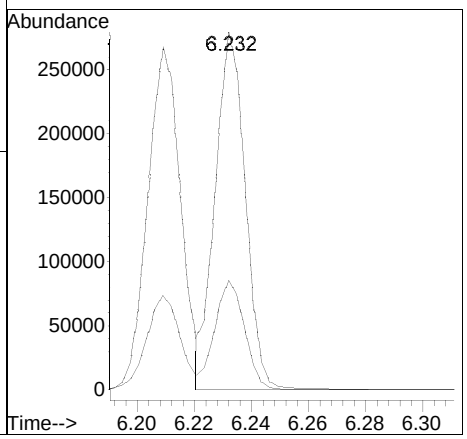


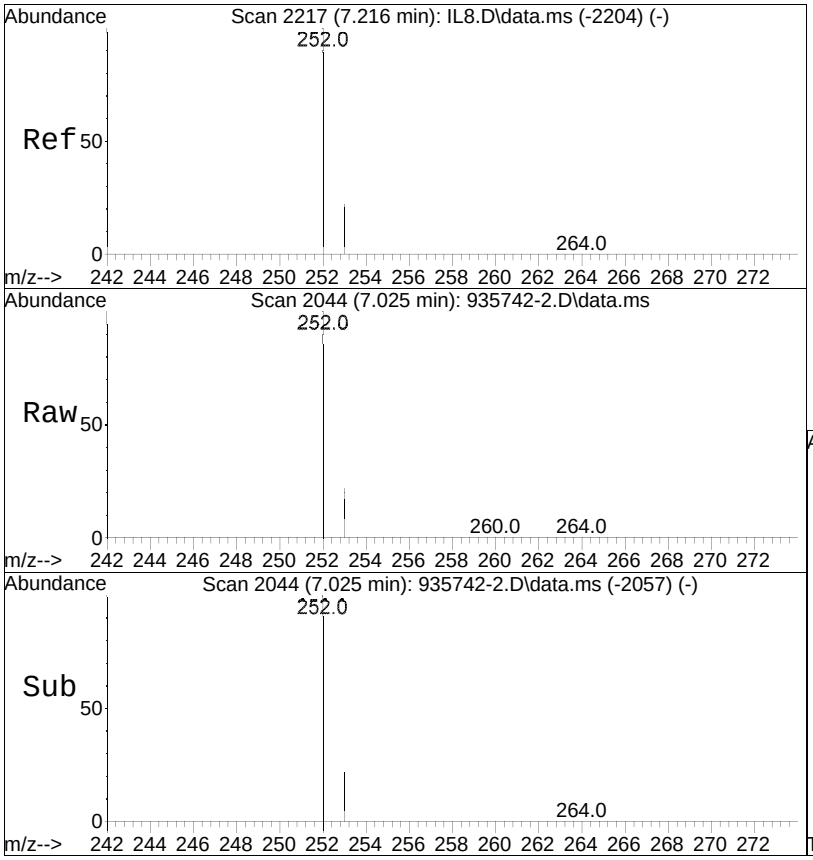


#34
Chrysene
Concen: 1519.29 ng/ml M2
RT: 6.232 min Scan# 1773
Delta R.T. -0.119 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:228 Resp: 204800

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.1	37.7

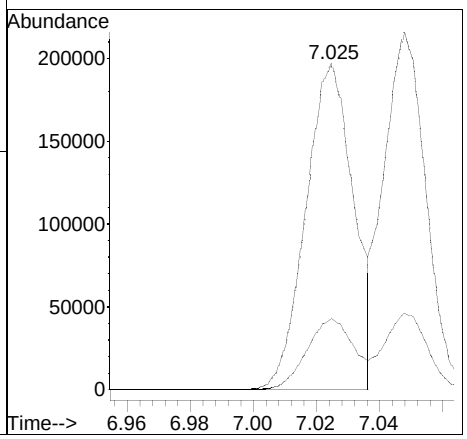


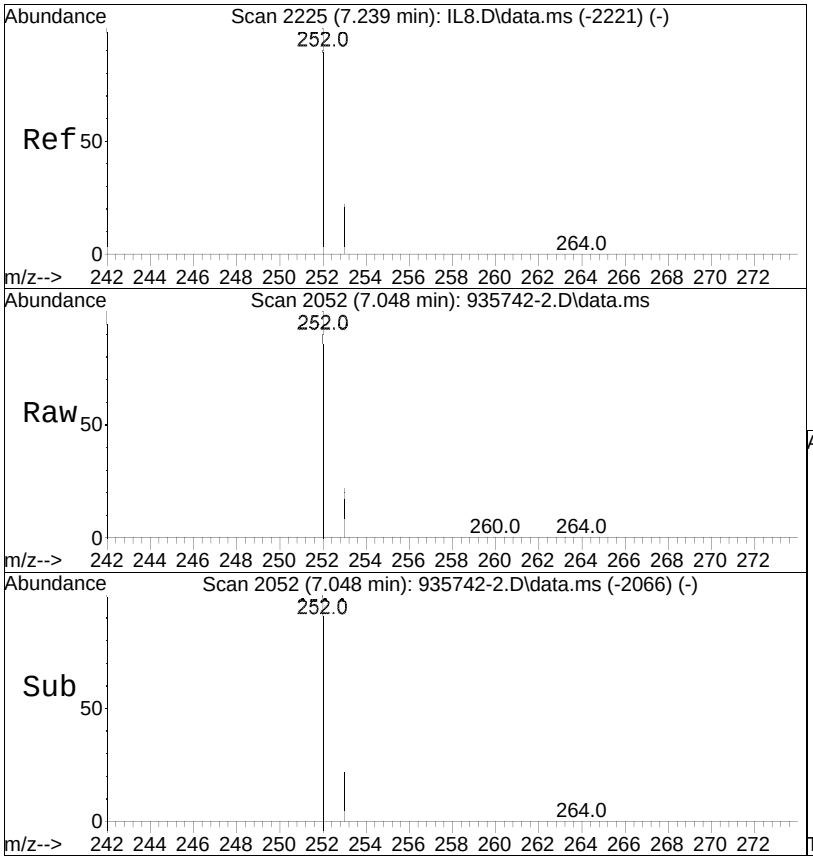


#37
Benzo[b]fluoranthene
Concen: 1661.61 ng/ml M3
RT: 7.025 min Scan# 2044
Delta R.T. -0.119 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:252 Resp: 208762

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

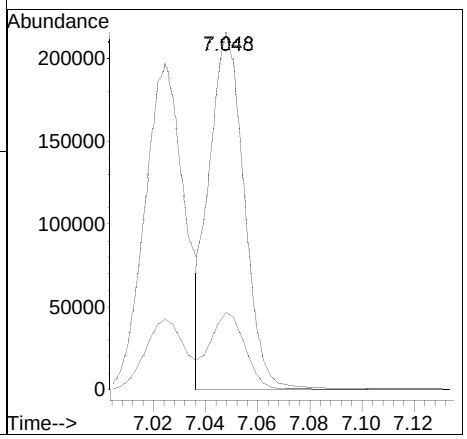


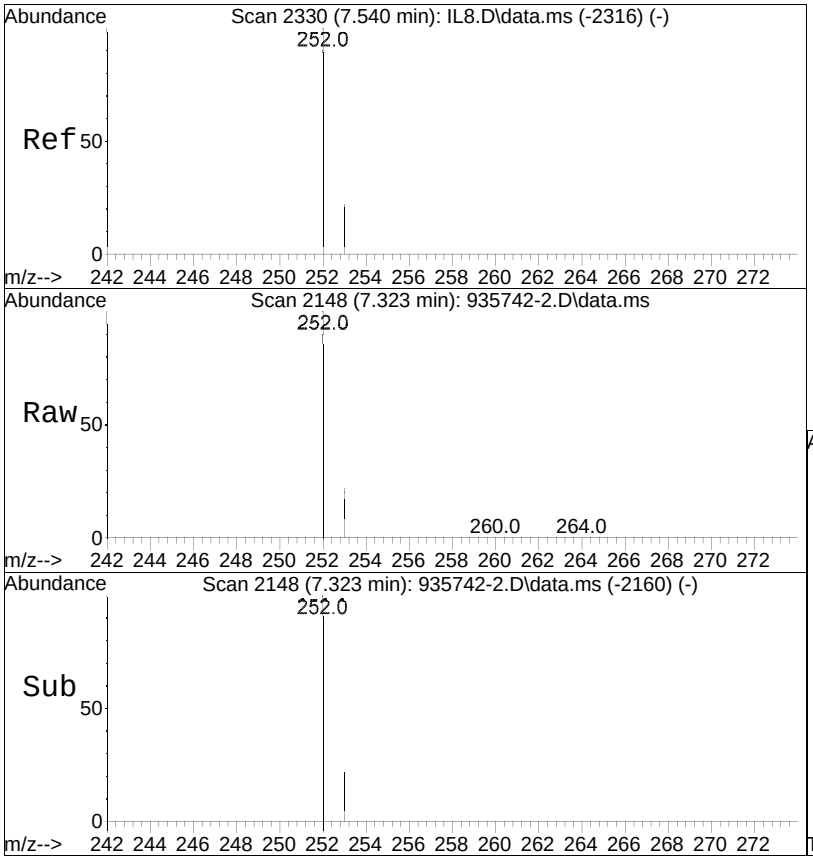


#38
Benzo[k]fluoranthene
Concen: 1675.77 ng/ml M3
RT: 7.048 min Scan# 2052
Delta R.T. -0.121 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:252 Resp: 200440

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3

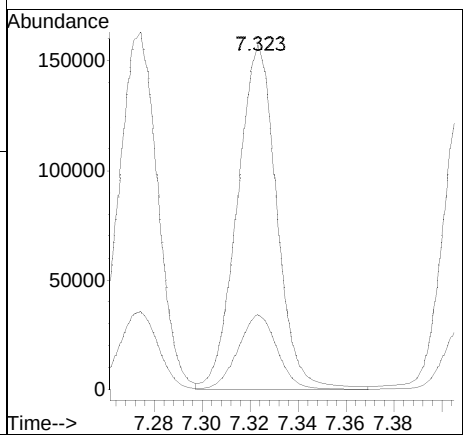


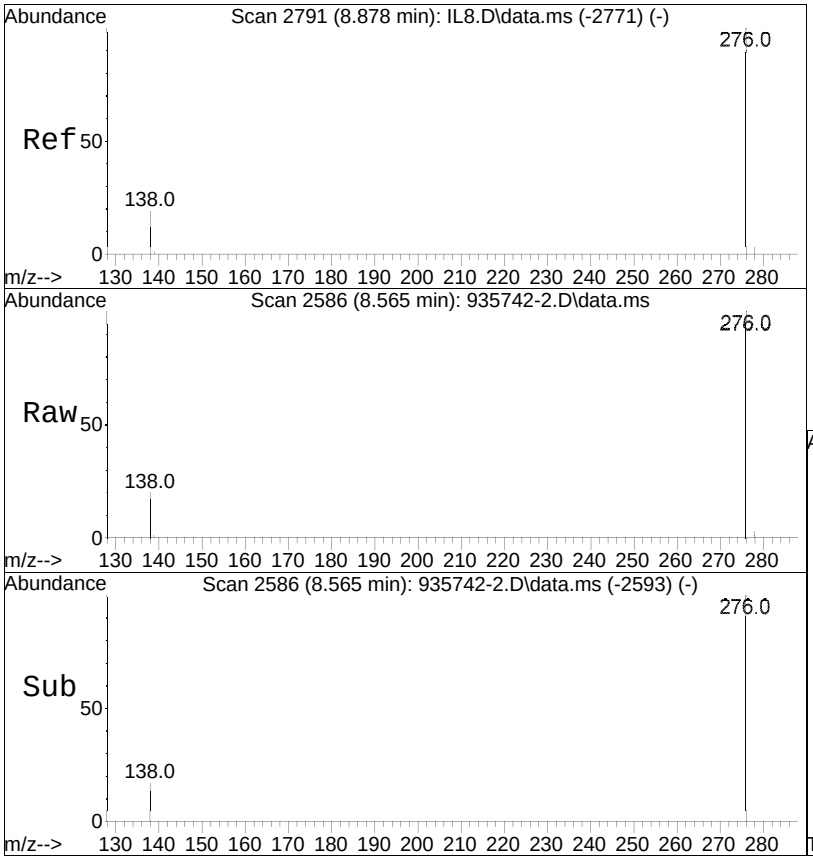


#39
Benzo[a]pyrene
Concen: 1741.28 ng/ml M1
RT: 7.323 min Scan# 2148
Delta R.T. -0.116 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:252 Resp: 180341

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

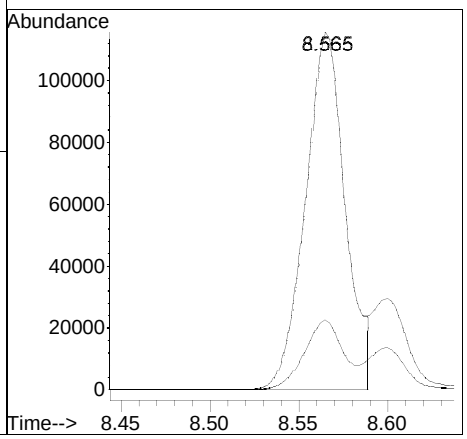


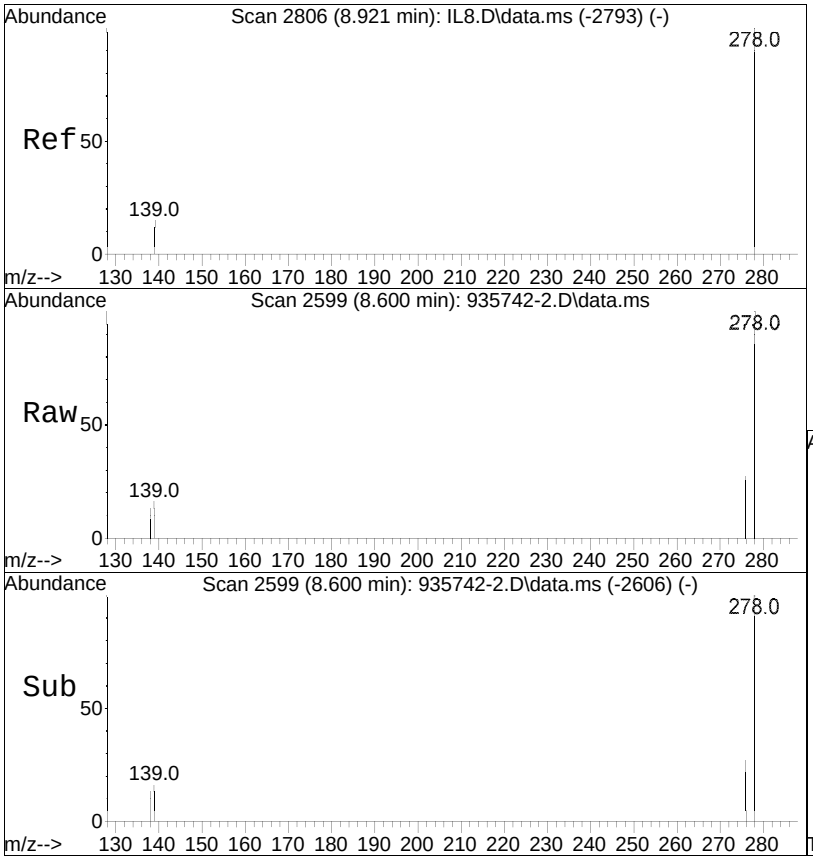


#40
Indeno[1,2,3-cd]pyrene
Concen: 1826.58 ng/ml M2
RT: 8.565 min Scan# 2586
Delta R.T. -0.098 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:276 Resp: 178162

Ion	Ratio	Lower	Upper
276	100		
138	19.4	16.6	24.8

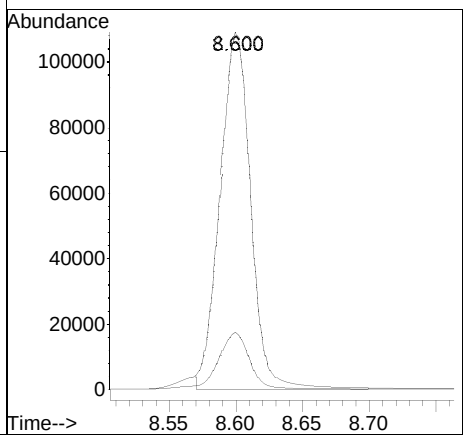


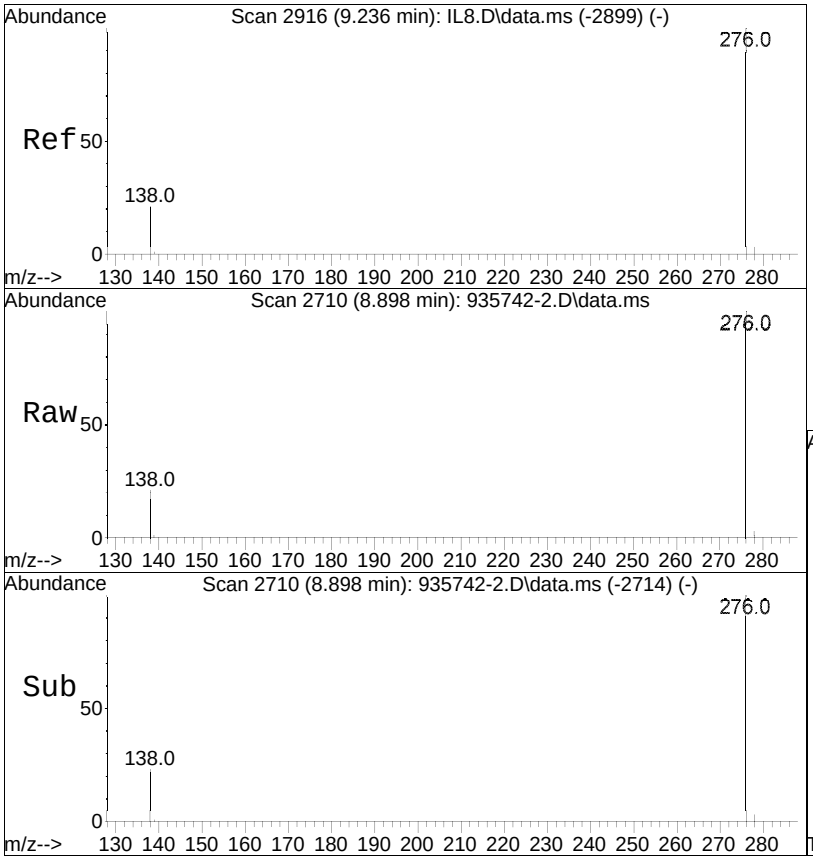


#41
Dibenzo[a,h]anthracene
Concen: 1856.24 ng/ml M2
RT: 8.600 min Scan# 2599
Delta R.T. -0.098 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:278 Resp: 173372

Ion	Ratio	Lower	Upper
278	100		
139	15.6	14.0	21.0

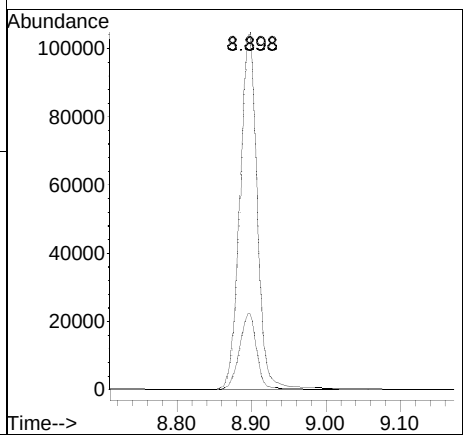




#42
Benzo[g,h,i]perylene
Concen: 1682.63 ng/ml M2
RT: 8.898 min Scan# 2710
Delta R.T. -0.089 min
Lab File: 935742-2.D
Acq: 19 Jun 2024 11:00 am

Tgt Ion:276 Resp: 166973

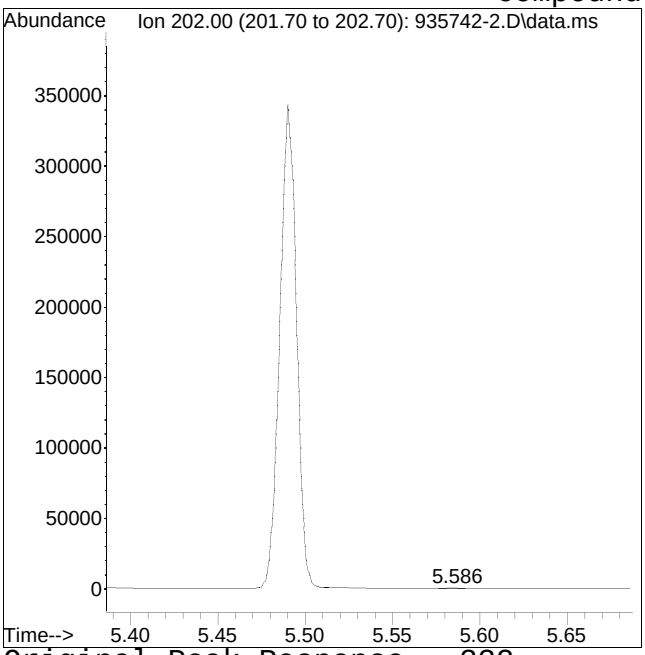
Ion	Ratio	Lower	Upper
276	100		
138	21.2	17.8	26.8

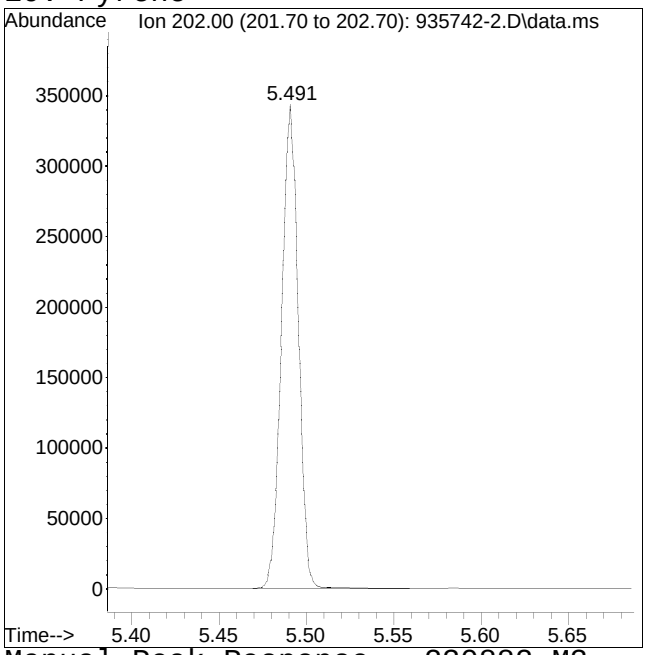


Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #29: Pyrene



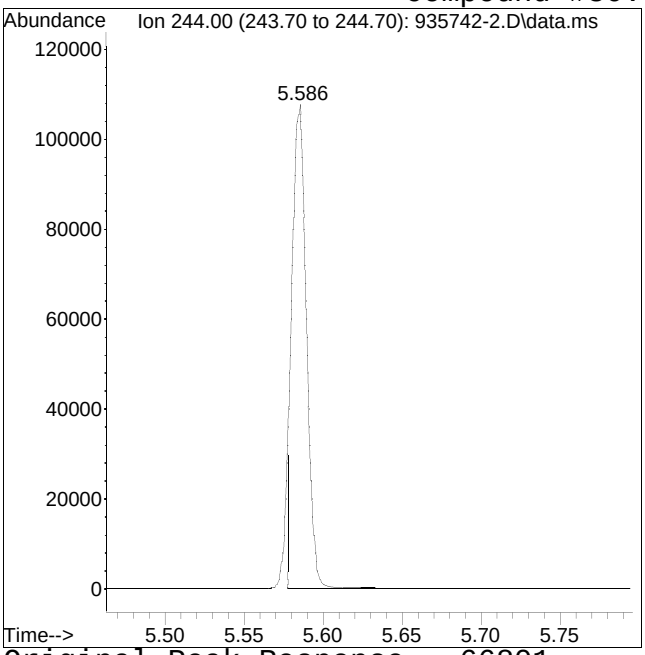


Original Peak Response = 332 Manual Peak Response = 230882 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

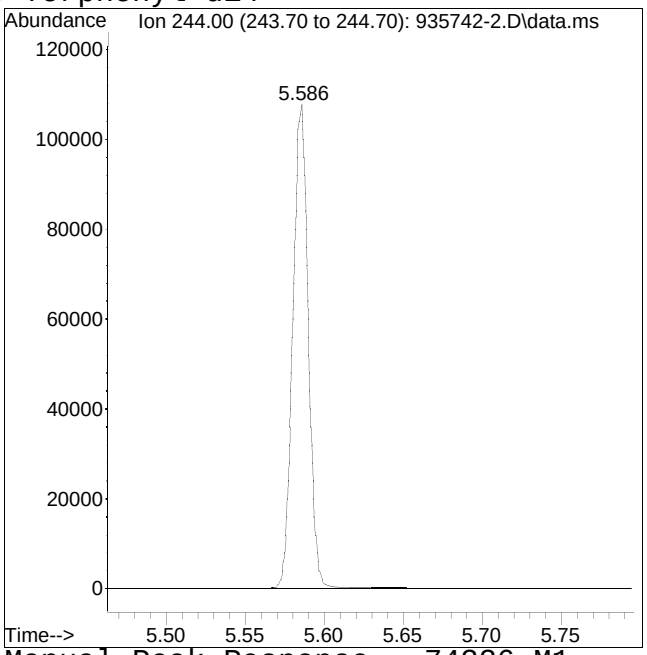
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 66801



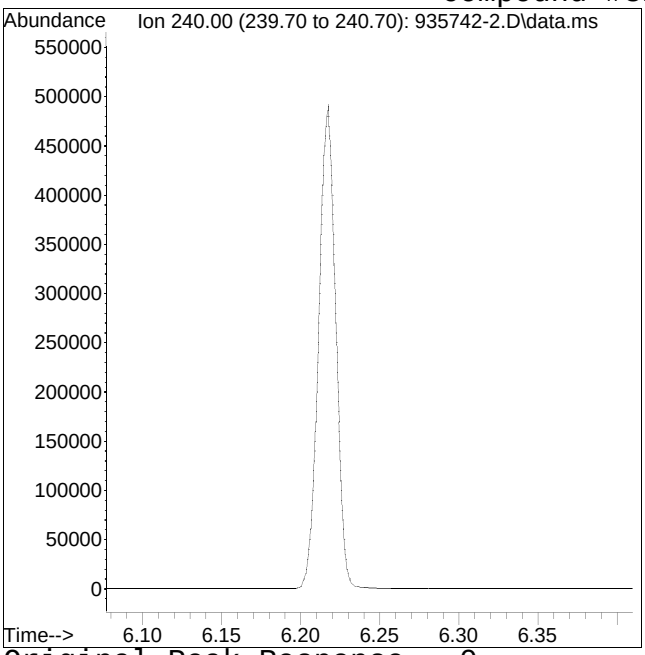
Manual Peak Response = 74226 M1

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

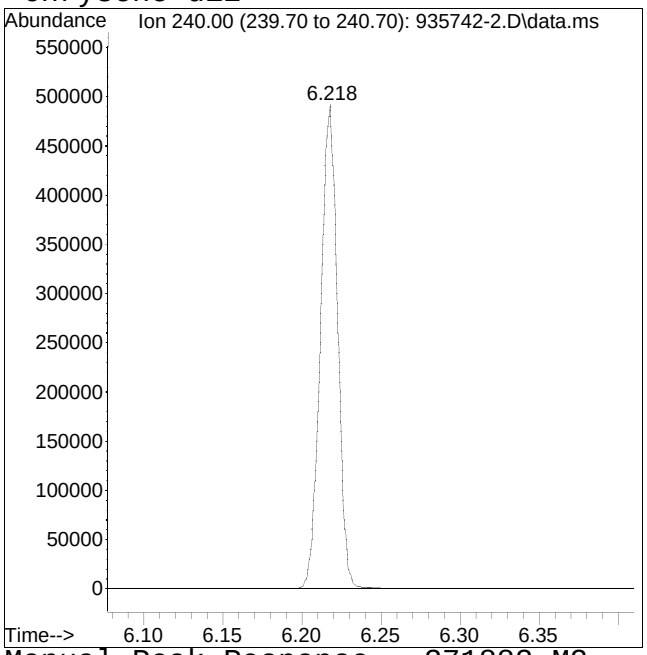
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #31: Chrysene-d12



Original Peak Response = 0



Manual Peak Response = 371883 M2

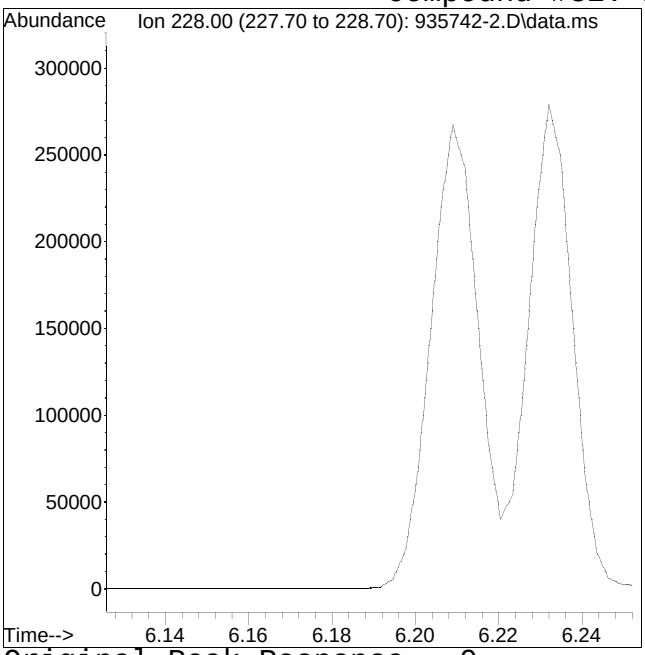
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

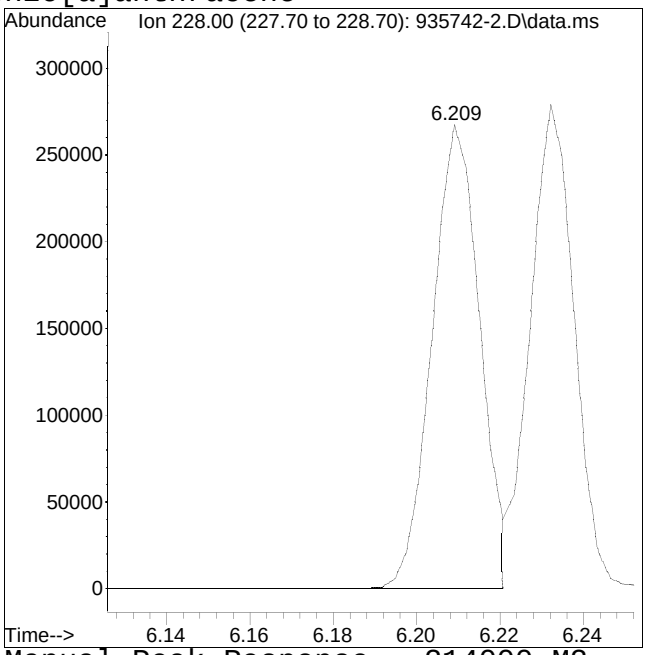
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-2.D
Date Inj'd : 6/19/2024 11:00 am
Sample : WG1935742-2,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:08 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 0



Manual Peak Response = 214000 M2

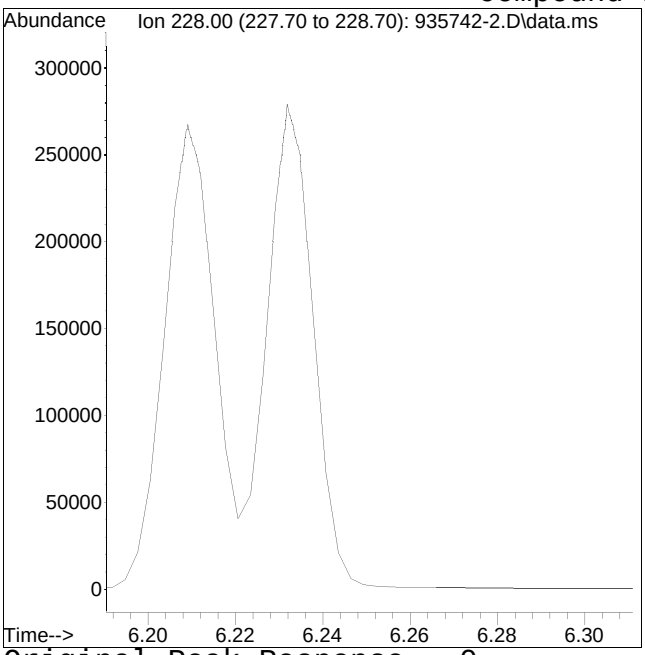
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

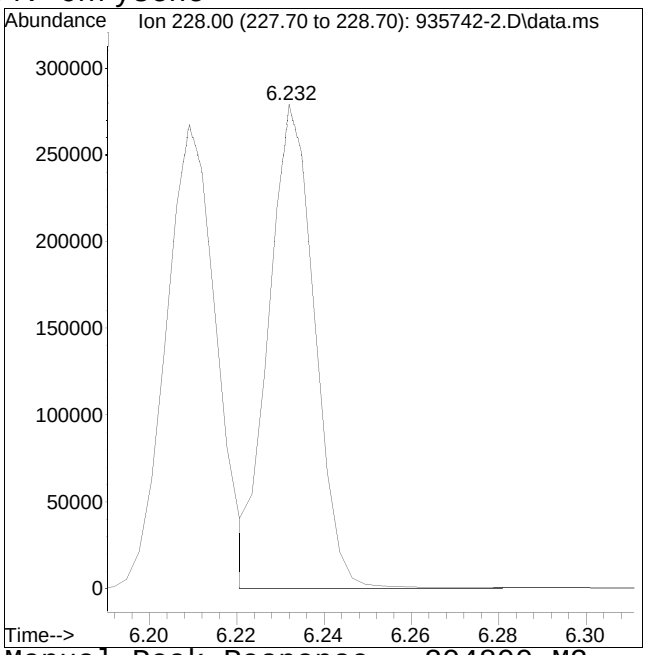
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-2.D
Date Inj'd : 6/19/2024 11:00 am
Sample : WG1935742-2,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:08 pm

Compound #34: Chrysene



Original Peak Response = 0



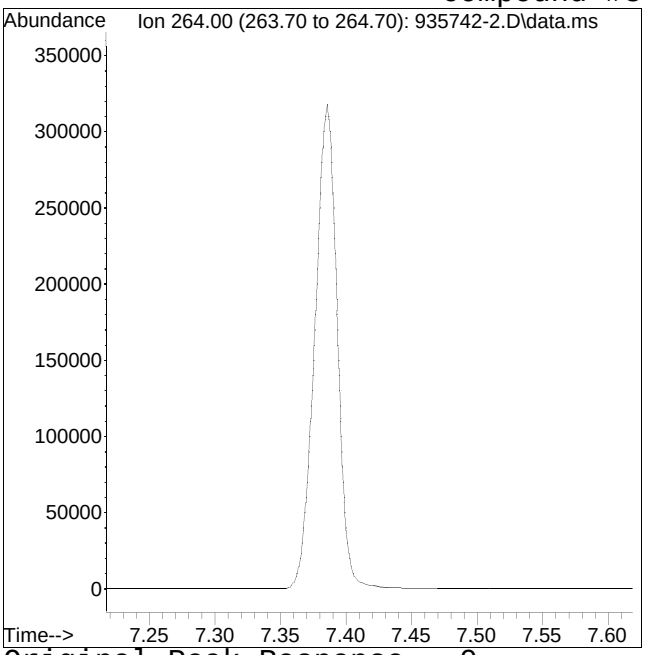
Manual Peak Response = 204800 M2

M2 = Peak not found by automatic integration algorithm.

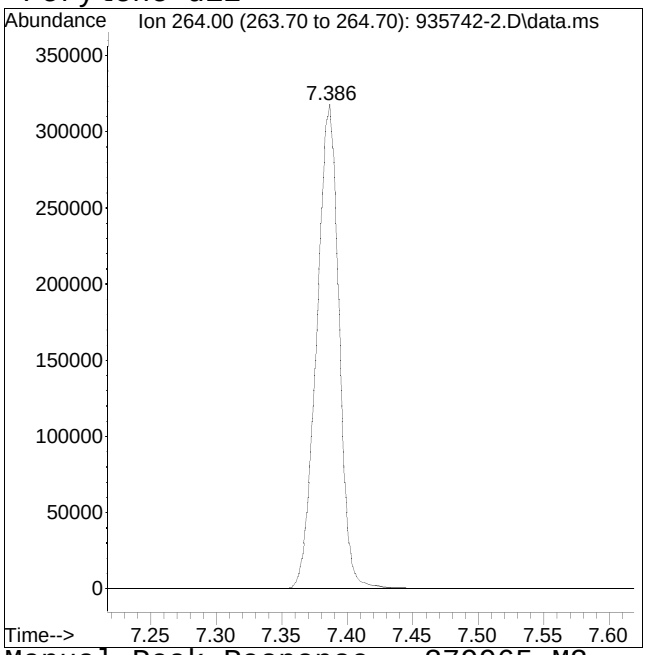
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #36: Perylene-d12



Original Peak Response = 0



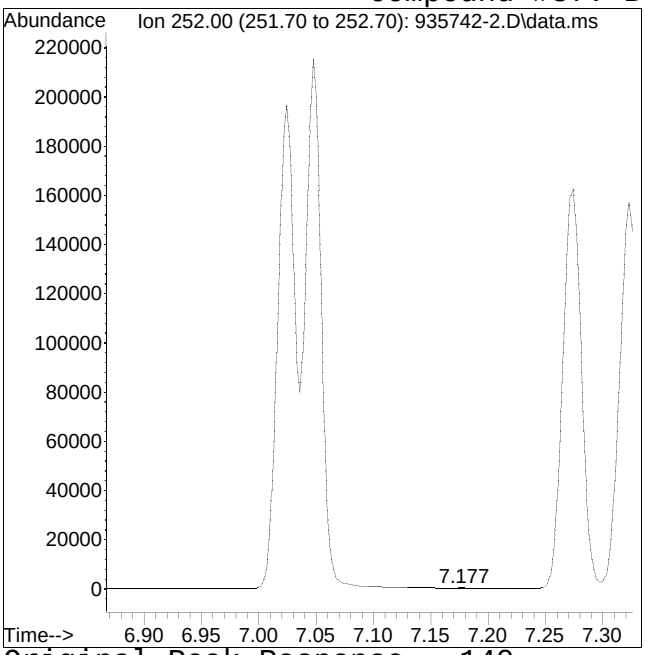
Manual Peak Response = 379965 M2

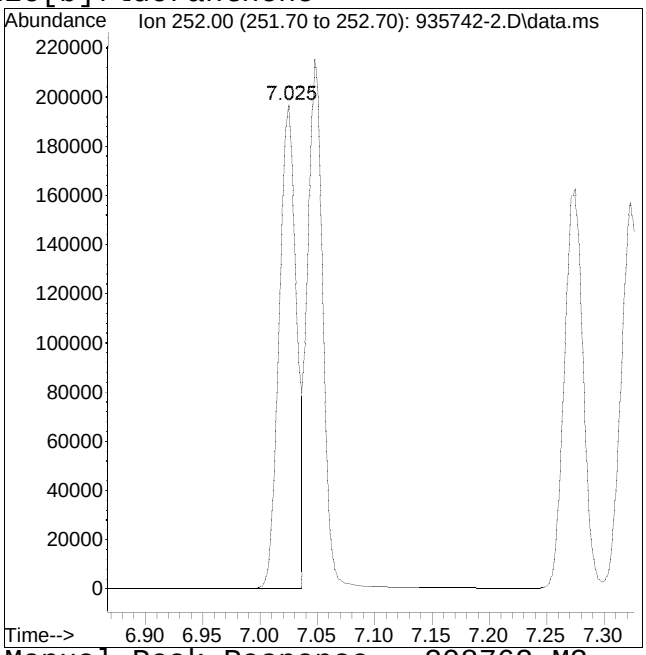
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #37: Benzo[b]fluoranthene



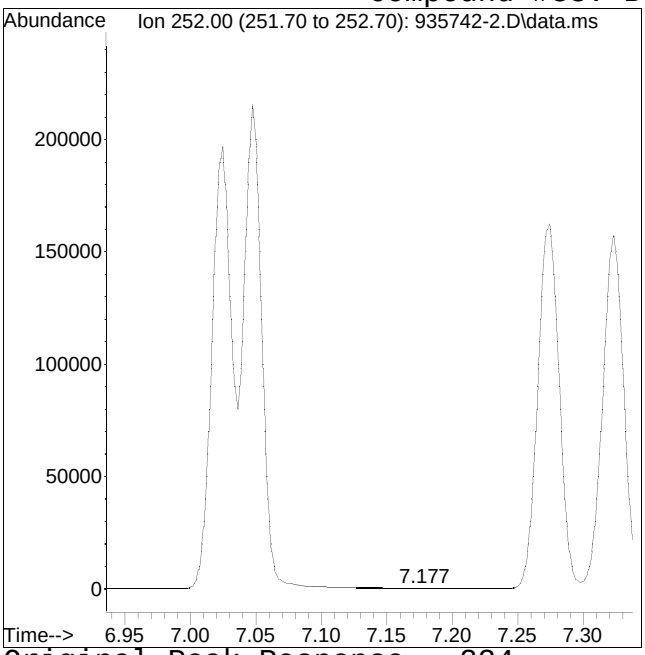


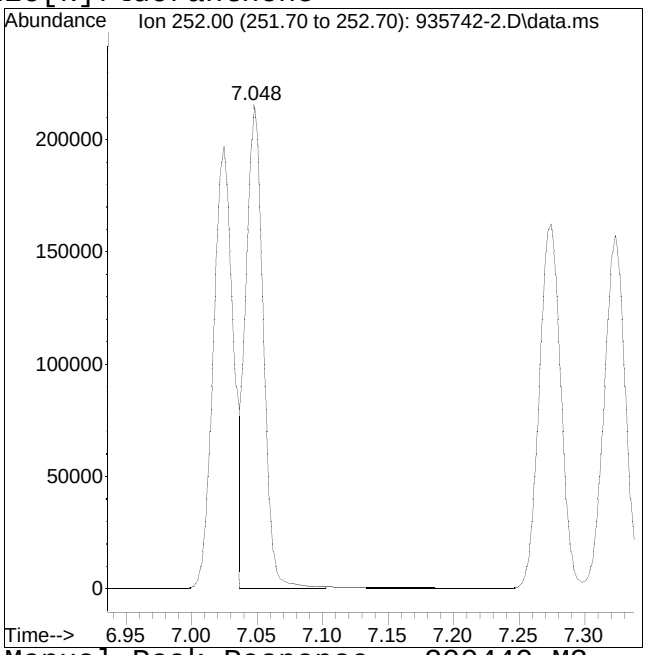
Original Peak Response = 140 Manual Peak Response = 208762 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #38: Benzo[k]fluoranthene





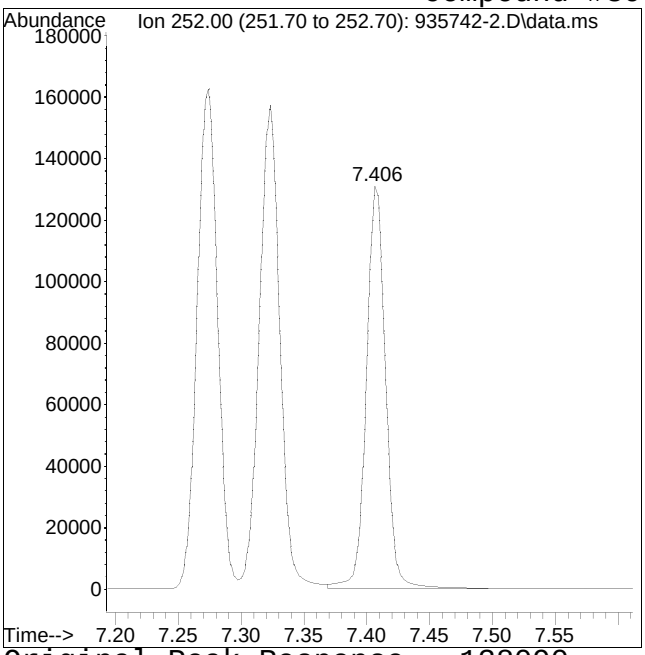
Original Peak Response = 224 Manual Peak Response = 200440 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

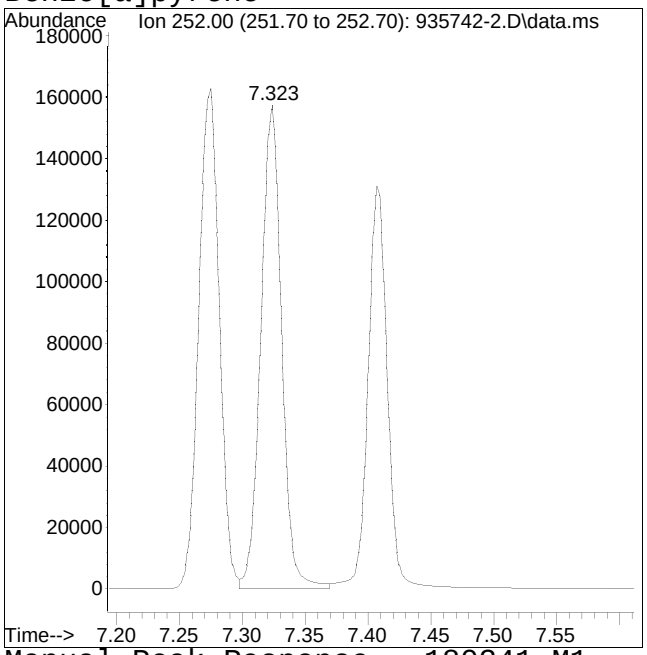
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 138090



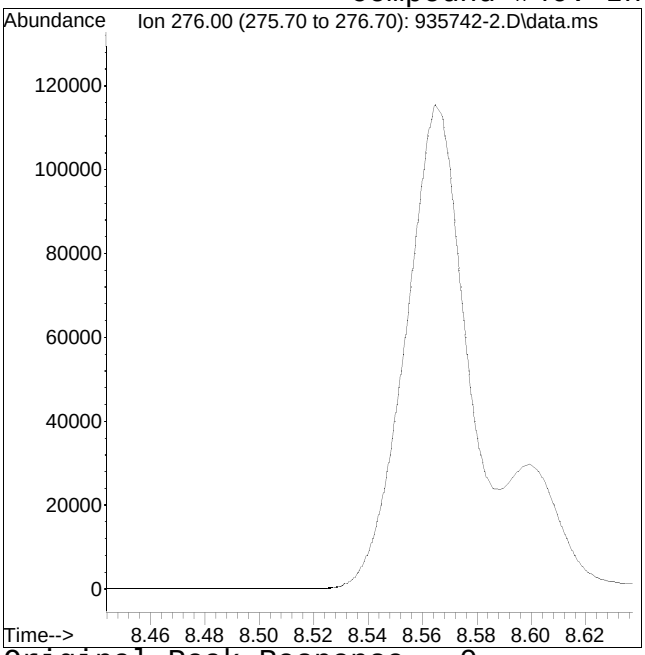
Manual Peak Response = 180341 M1

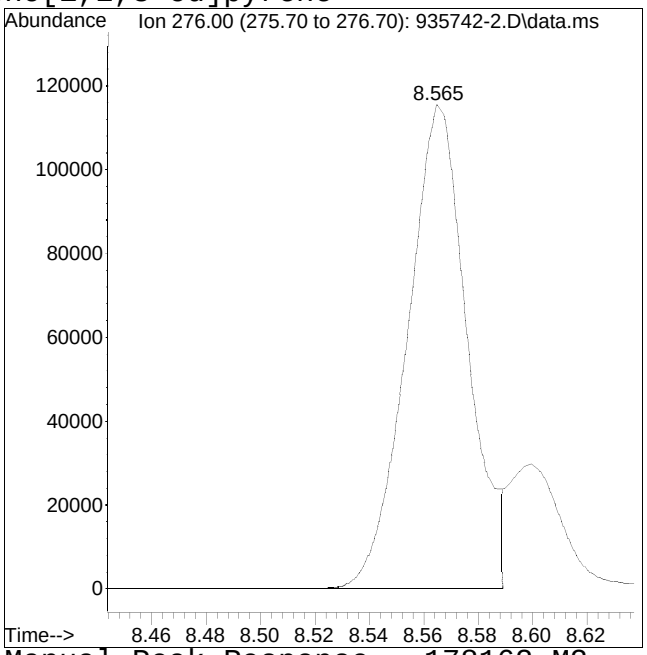
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #40: Indeno[1,2,3-cd]pyrene



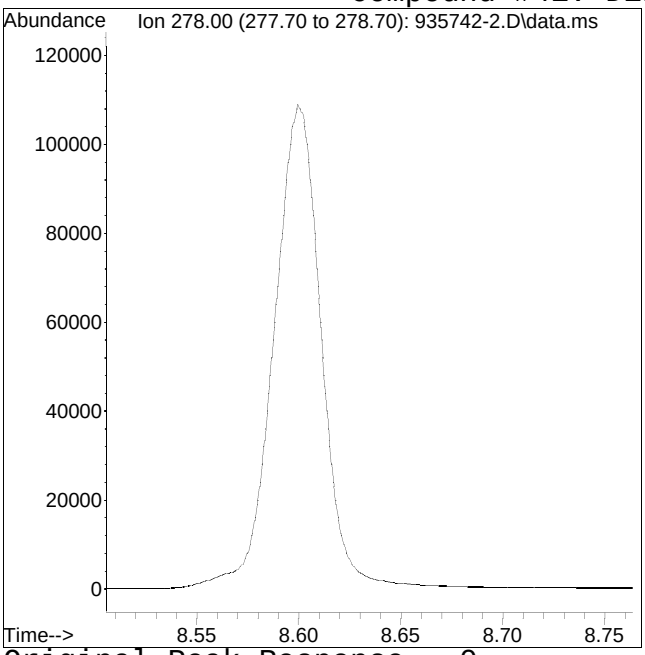


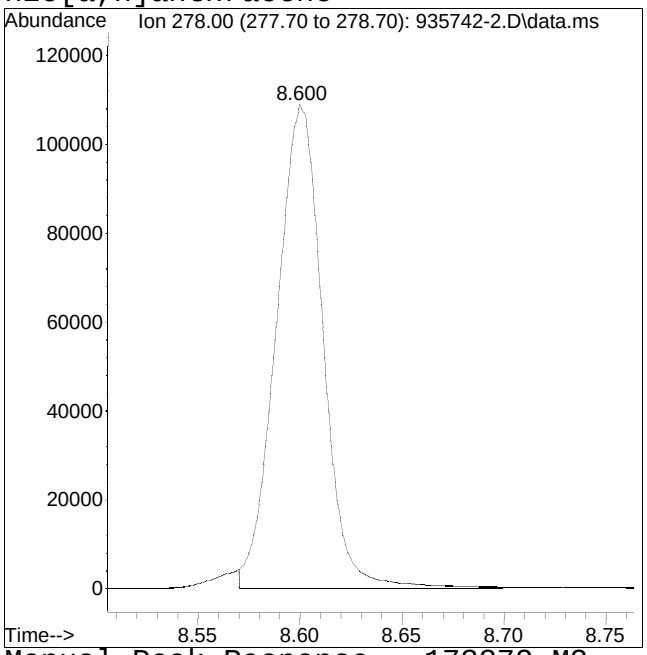
Original Peak Response = 0 Manual Peak Response = 178162 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #41: Dibenzo[a,h]anthracene



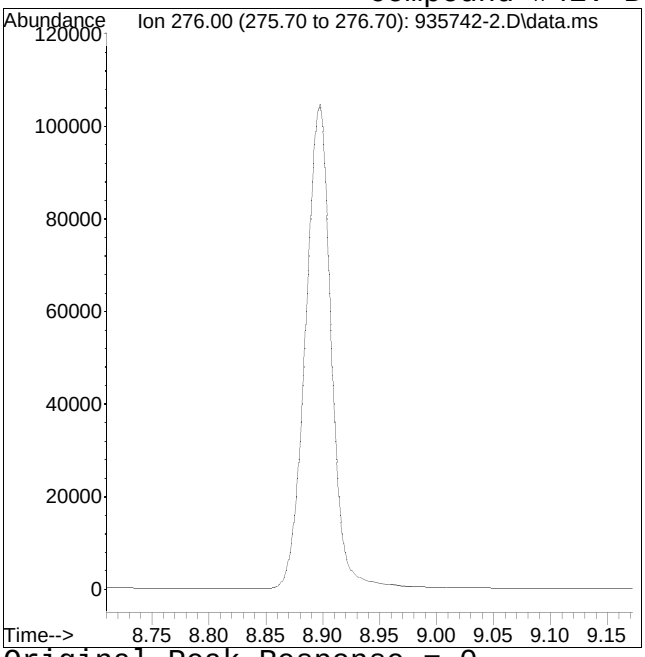


Original Peak Response = 0 Manual Peak Response = 173372 M2
M2 = Peak not found by automatic integration algorithm.

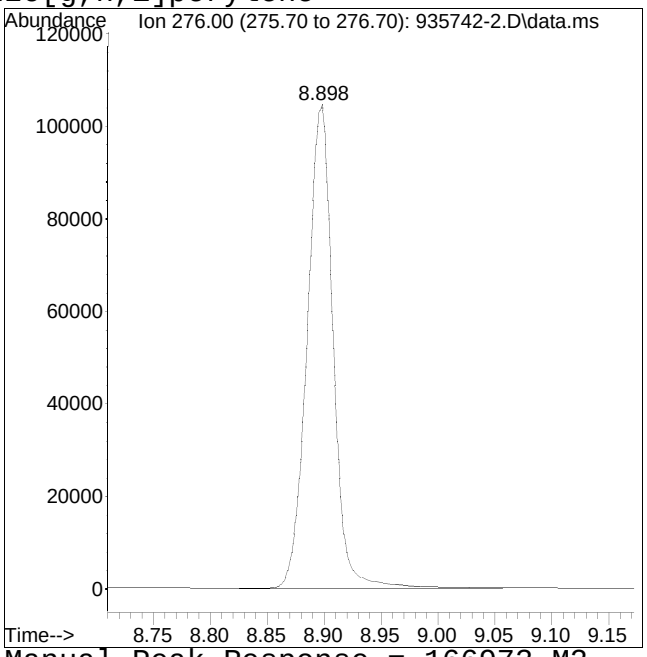
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-2.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:00 am Instrument : SV120
Sample : WG1935742-2,32,,jjw Quant Date : 6/19/2024 3:08 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 0



Manual Peak Response = 166973 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-3.D
Acq On : 17 Jun 2024 08:21 am
Operator : SV120:ah
Sample : WG1934857-3,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 10:22:22 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	123881	4000.000	ng/ml	0.00
Standard Area 1 = 108607			Recovery = 114.06%			
8) Naphthalene-d8	2.861	136	480645	4000.000	ng/ml	0.00
Standard Area 1 = 406711			Recovery = 118.18%			
17) Acenaphthene-d10	3.837	164	265472	4000.000	ng/ml	0.00
Standard Area 1 = 240410			Recovery = 110.42%			
22) Phenanthrene-d10	4.671	188	559575	4000.000	ng/ml	0.00
Standard Area 1 = 525169			Recovery = 106.55%			
31) Chrysene-d12	6.208	240	483204	4000.000	ng/ml	0.00
Standard Area 1 = 478566			Recovery = 100.97%			
36) Perylene-d12	7.374	264	496431	4000.000	ng/ml	0.00
Standard Area 1 = 501063			Recovery = 99.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	35997	977.678	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.88%			
3) Phenol-d6	2.021	99	31514	712.052	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.60%			
7) Nitrobenzene-d5	2.481	82	30494	773.322	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.33%			
13) 2-Fluorobiphenyl	3.456	172	71489	699.501	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.95%			
21) 2,4,6-Tribromophenol	4.279	330	27473	1521.801	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 76.09%			
30) 4-Terphenyl-d14	5.582	244	88219	774.836	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 38.74%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	55838	1427.489	ng/ml	97
6) Hexachloroethane	2.460	117	17818	1005.321	ng/ml	98
9) Naphthalene	2.874	128	160481	1181.222	ng/ml	99
10) Hexachlorobutadiene	2.944	225	25044	963.637	ng/ml	100
11) 2-Methylnaphthalene	3.253	142	106005	1250.596	ng/ml	100
14) 2-Chloronaphthalene	3.521	162	111913	1291.789	ng/ml	93
16) Acenaphthylene	3.753	152	186401	1461.965	ng/ml	100
18) Acenaphthene	3.853	153	126300	1386.592	ng/ml	99
20) Fluorene	4.144	166	143655	1463.108	ng/ml	100
24) Hexachlorobenzene	4.460	284	56437	1399.766	ng/ml	99

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-3.D
Acq On : 17 Jun 2024 08:21 am
Operator : SV120:ah
Sample : WG1934857-3,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 10:22:22 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240617RVT\ccv0617.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.571	266	35552	1506.937	ng/ml	99
26) Phenanthrene	4.685	178	226218	1437.776	ng/ml	100
27) Anthracene	4.713	178	228245	1468.207	ng/ml	100
28) Fluoranthene	5.360	202	273492	1602.739	ng/ml	100
29) Pyrene	5.490	202	284123	1605.725	ng/ml	100
32) Benzo[a]anthracene	6.200	228	270100	1459.936	ng/ml	100
34) Chrysene	6.226	228	247777	1414.649	ng/ml	98
37) Benzo[b]fluoranthene	7.013	252	255366	1555.694	ng/ml	100
38) Benzo[k]fluoranthene	7.036	252	245724	1572.396	ng/ml	100
39) Benzo[a]pyrene	7.311	252	221927	1640.098	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.556	276	221991	1741.983	ng/ml	98
41) Dibenzo[a,h]anthracene	8.588	278	217807M6	1784.889	ng/ml	
42) Benzo[g,h,i]perylene	8.887	276	205762	1587.060	ng/ml	99

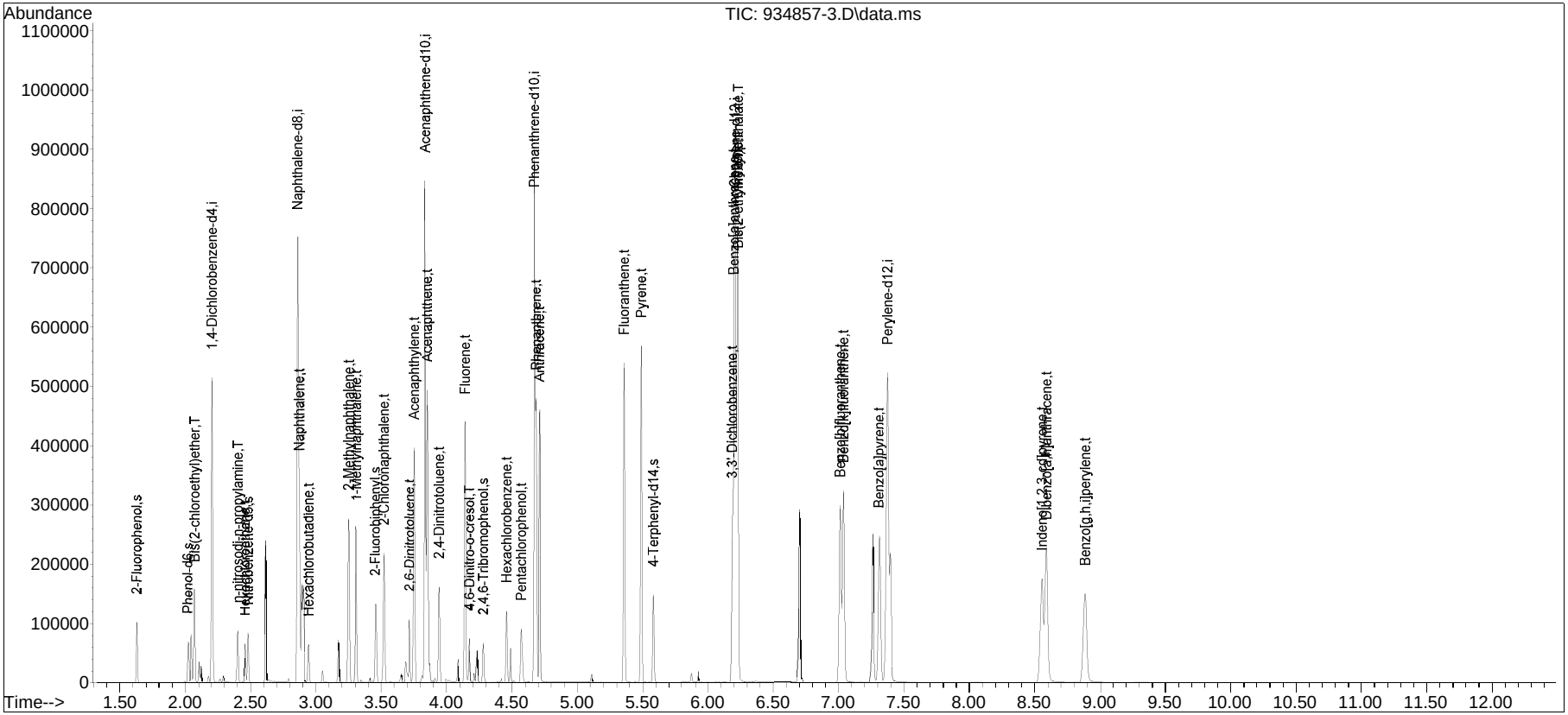
(#) = qualifier out of range (m) = manual integration (+) = signals summed

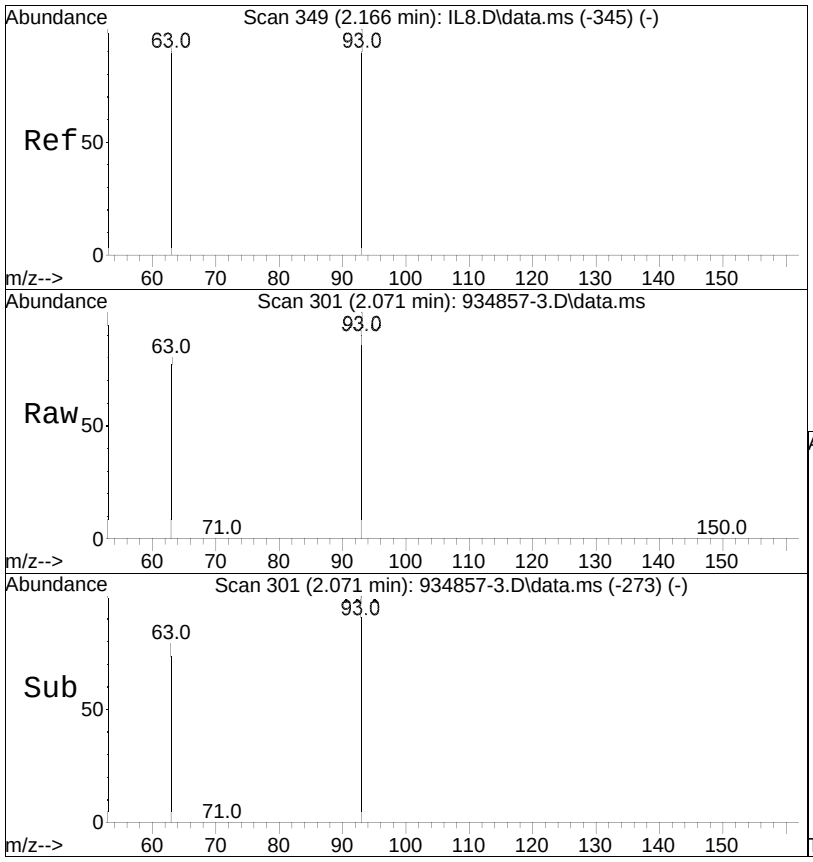
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240617RVT\
Data File : 934857-3.D
Acq On : 17 Jun 2024 08:21 am
Operator : SV120:ah
Sample : WG1934857-3,32,,ah
Misc : WG1935125,WG1934857,ical21160
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 17 10:22:22 2024
Quant Method : I:\8270sim\sv120\240617RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 17 07:21:07 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0617.D•

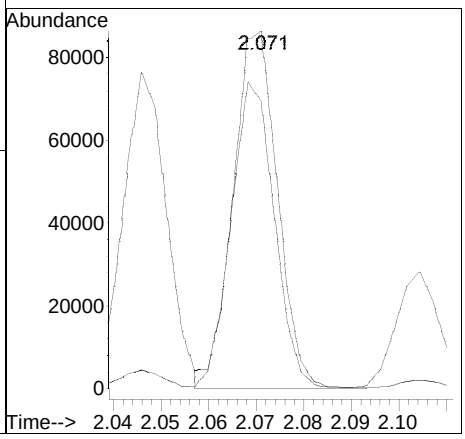


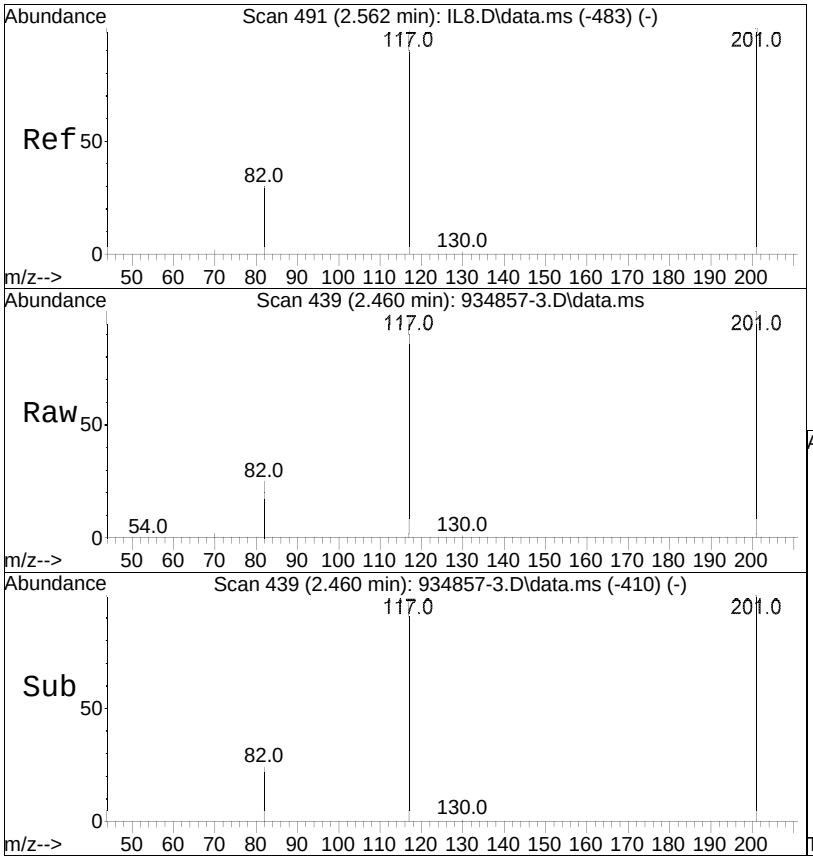


#4
Bis(2-chloroethyl)ether
Concen: 1427.49 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. -0.002 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion: 93 Resp: 55838

Ion	Ratio	Lower	Upper
93	100		
63	83.4	68.6	102.8

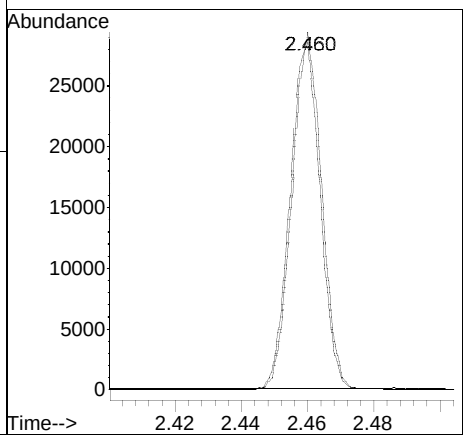


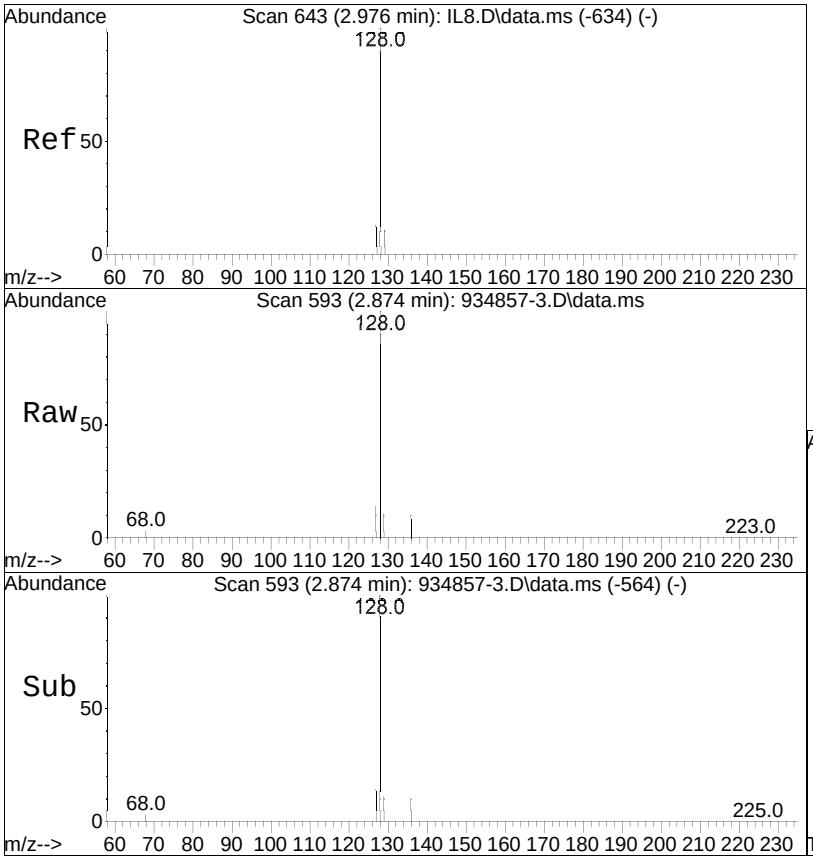


#6
Hexachloroethane
Concen: 1005.32 ng/ml
RT: 2.460 min Scan# 439
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:117 Resp: 17818

Ion	Ratio	Lower	Upper
117	100		
201	100.8	79.4	119.2

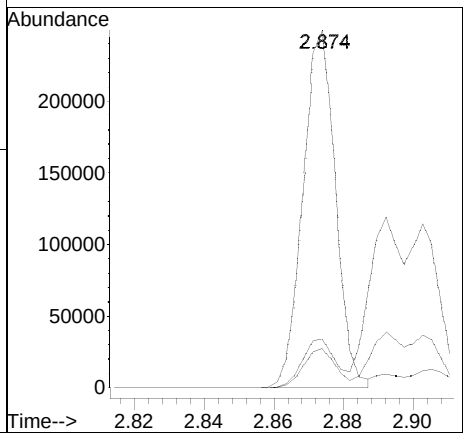


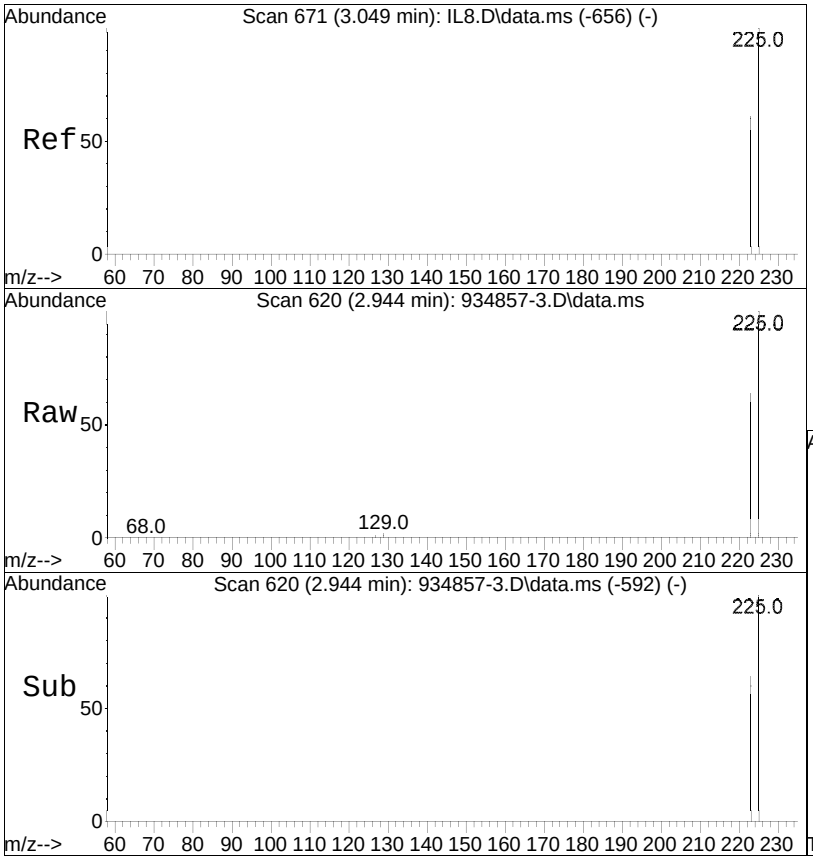


#9
Naphthalene
Concen: 1181.22 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:128 Resp: 160481

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	14.4	11.3	16.9

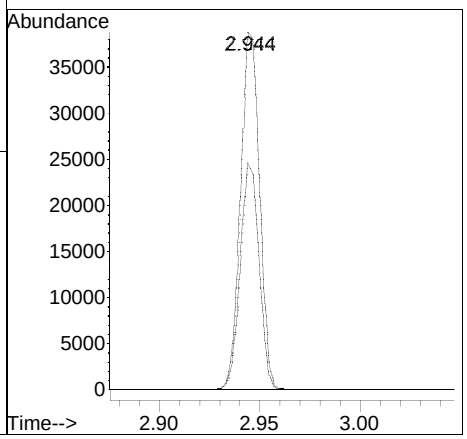


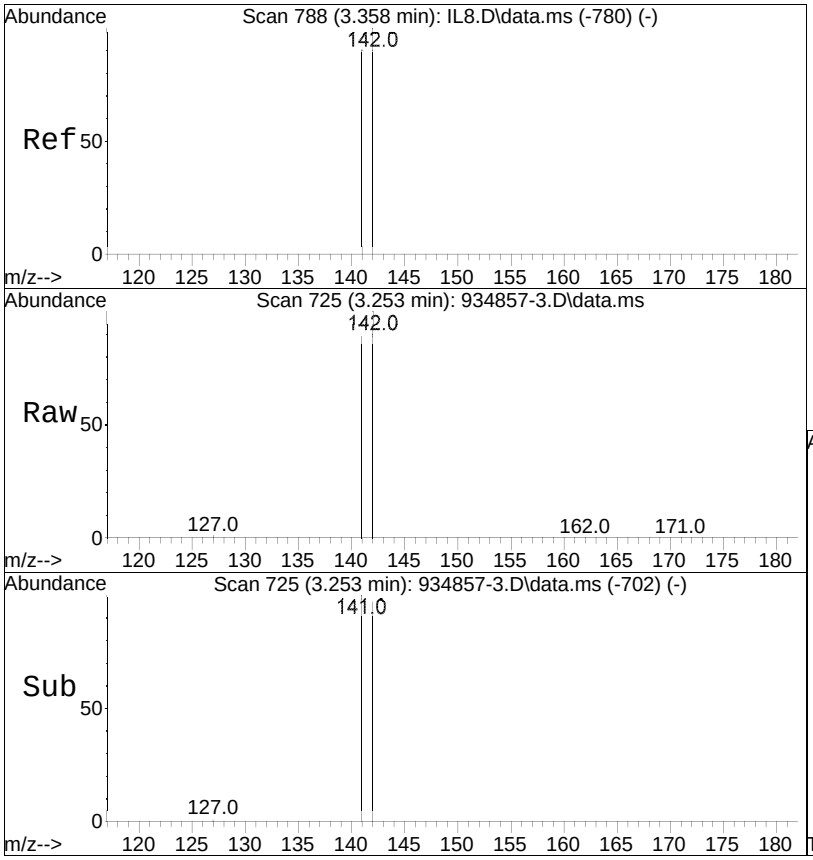


#10
Hexachlorobutadiene
Concen: 963.64 ng/ml
RT: 2.944 min Scan# 620
Delta R.T. -0.007 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:225 Resp: 25044

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

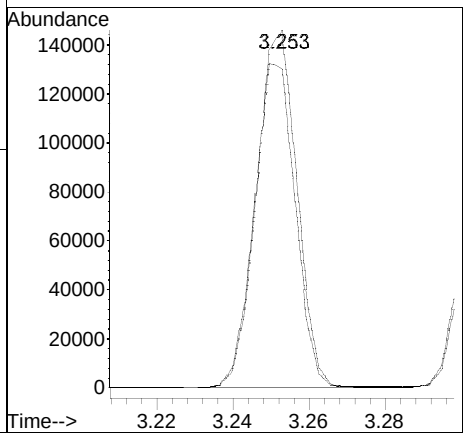


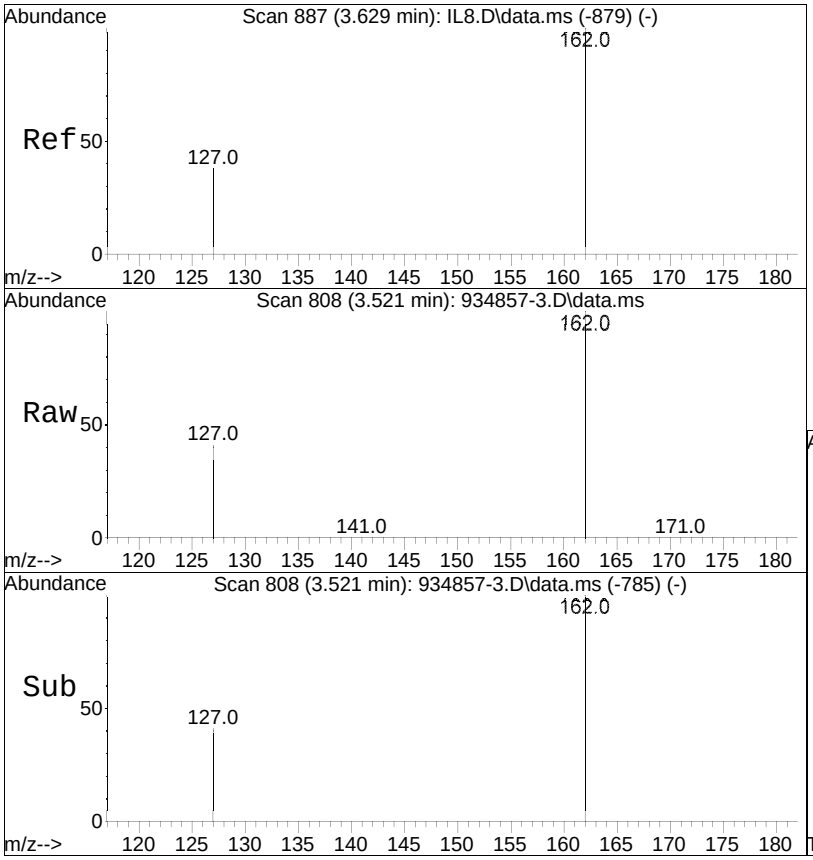


#11
2-Methylnaphthalene
Concen: 1250.60 ng/ml
RT: 3.253 min Scan# 725
Delta R.T. -0.005 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:142 Resp: 106005

Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.8	110.6

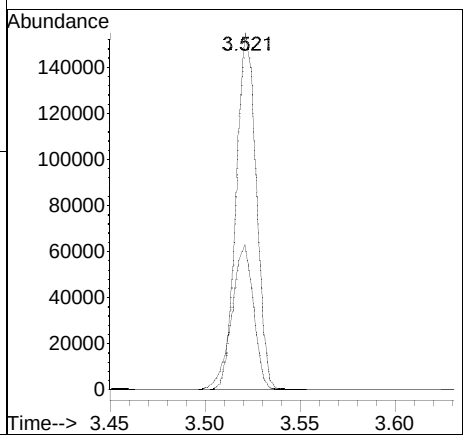


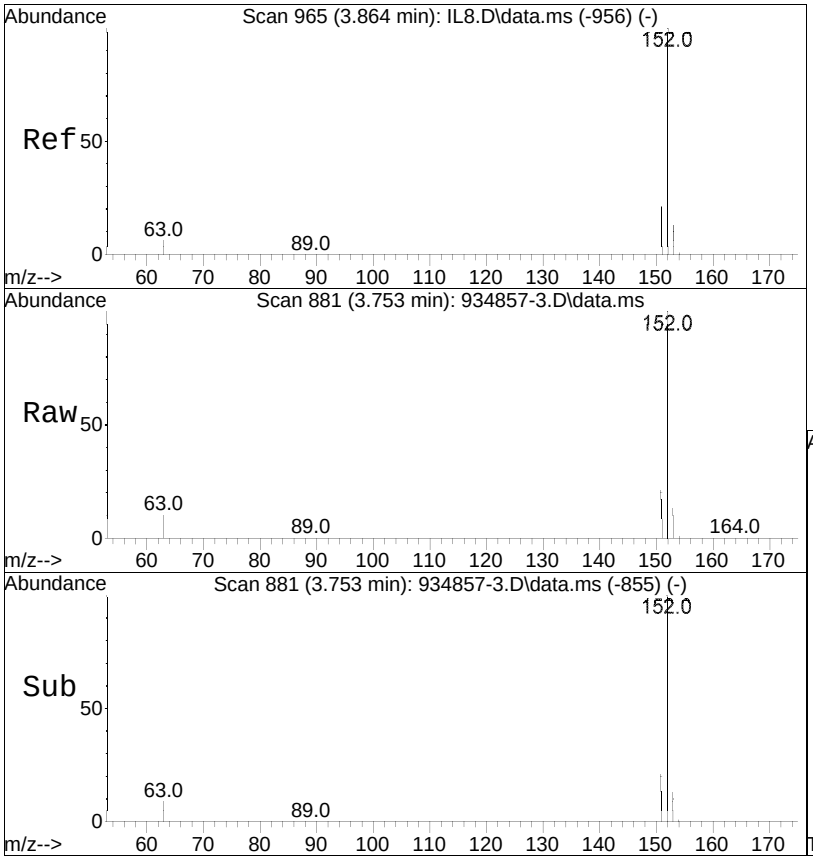


#14
2-Chloronaphthalene
Concen: 1291.79 ng/ml
RT: 3.521 min Scan# 808
Delta R.T. -0.005 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:162 Resp: 111913

Ion	Ratio	Lower	Upper
162	100		
127	44.1	32.0	48.0

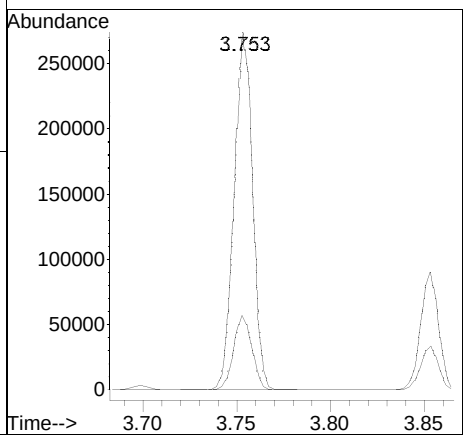


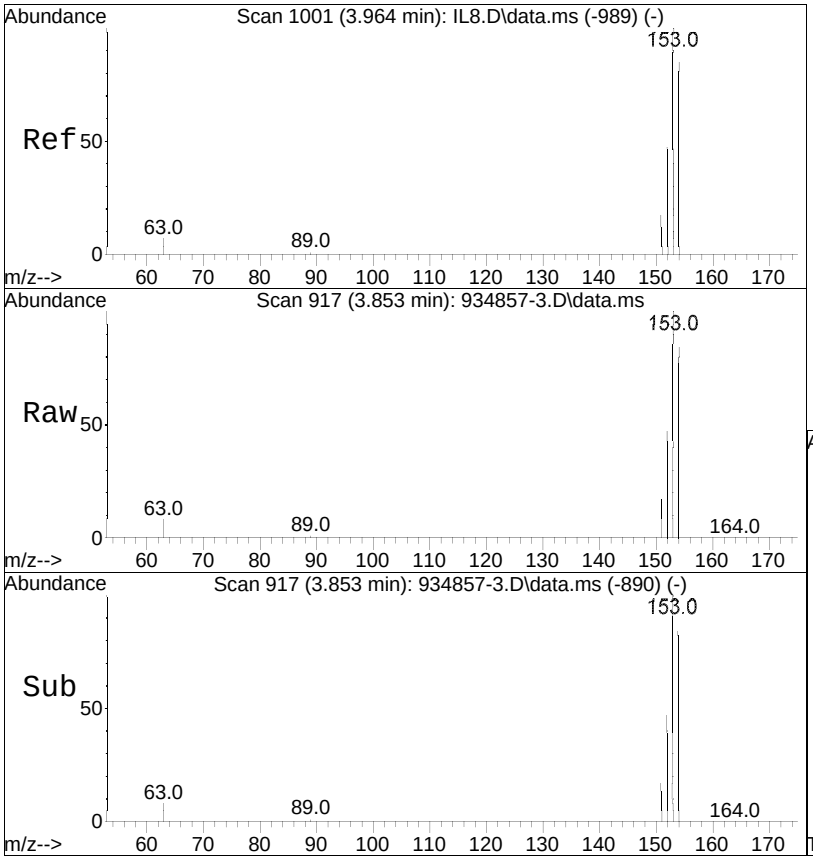


#16
Acenaphthylene
Concen: 1461.97 ng/ml
RT: 3.753 min Scan# 881
Delta R.T. -0.007 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:152 Resp: 186401

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

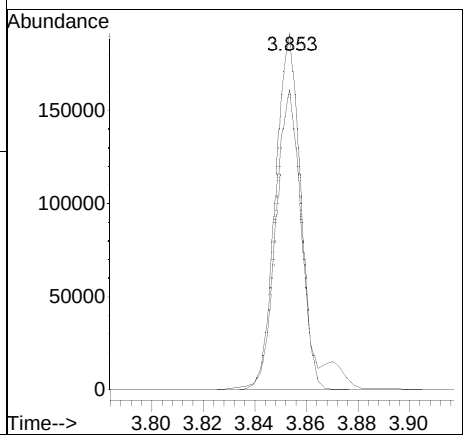


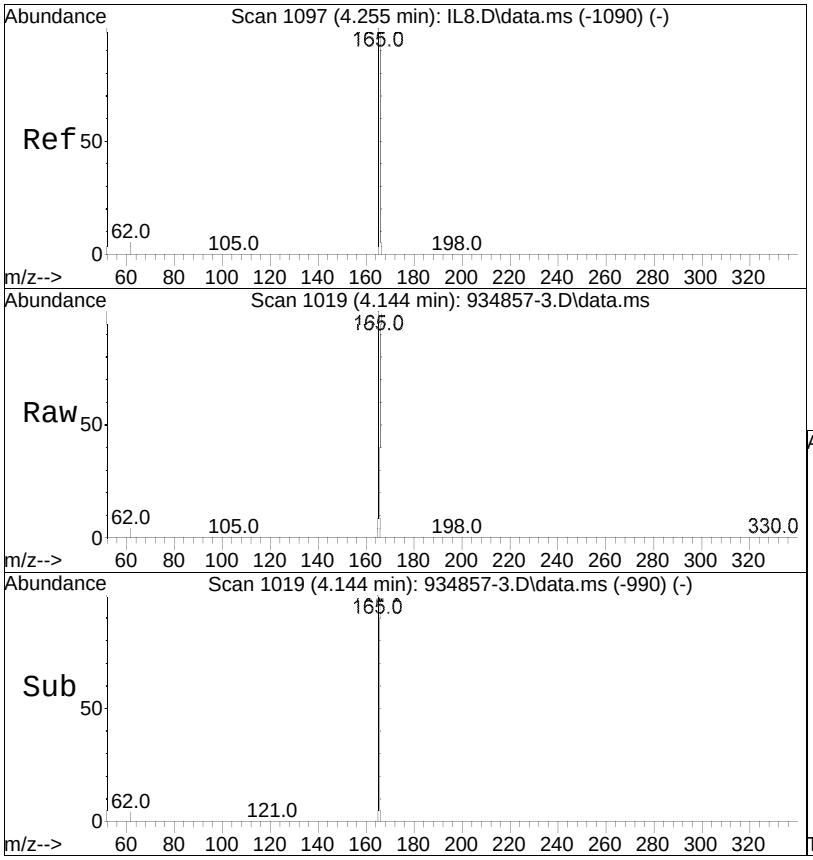


#18
Acenaphthene
Concen: 1386.59 ng/ml
RT: 3.853 min Scan# 917
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:153 Resp: 126300

Ion	Ratio	Lower	Upper
153	100		
154	92.9	73.4	110.2

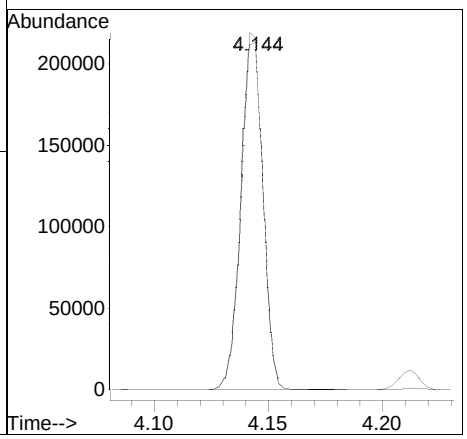


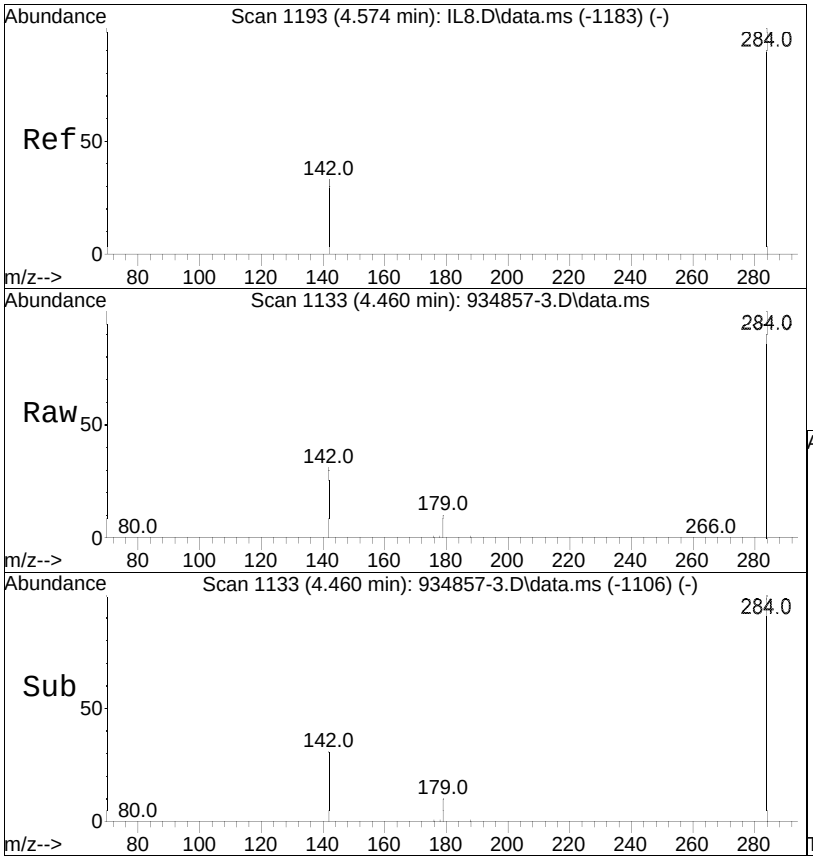


#20
Fluorene
Concen: 1463.11 ng/ml
RT: 4.144 min Scan# 1019
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:166 Resp: 143655

Ion	Ratio	Lower	Upper
166	100		
165	102.0	81.9	122.9

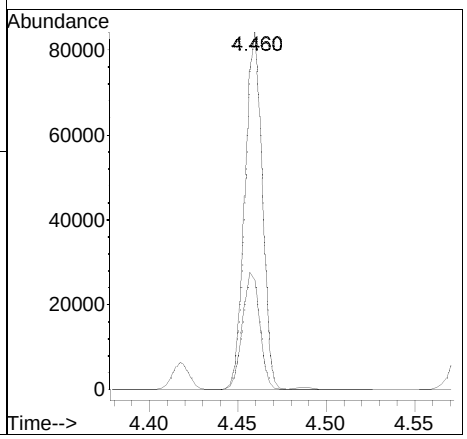


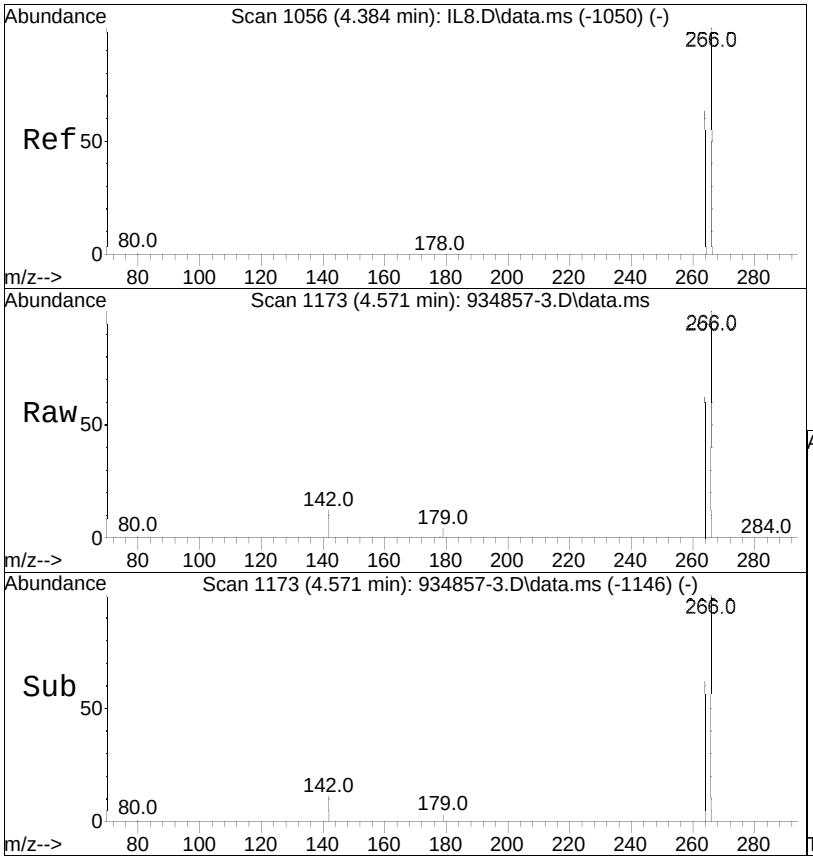


#24
Hexachlorobenzene
Concen: 1399.77 ng/ml
RT: 4.460 min Scan# 1133
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:284 Resp: 56437

Ion	Ratio	Lower	Upper
284	100		
142	32.9	26.8	40.2

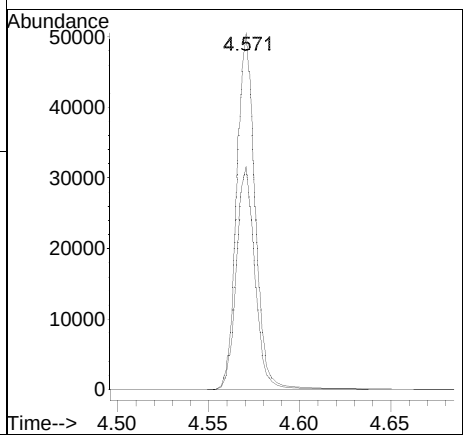


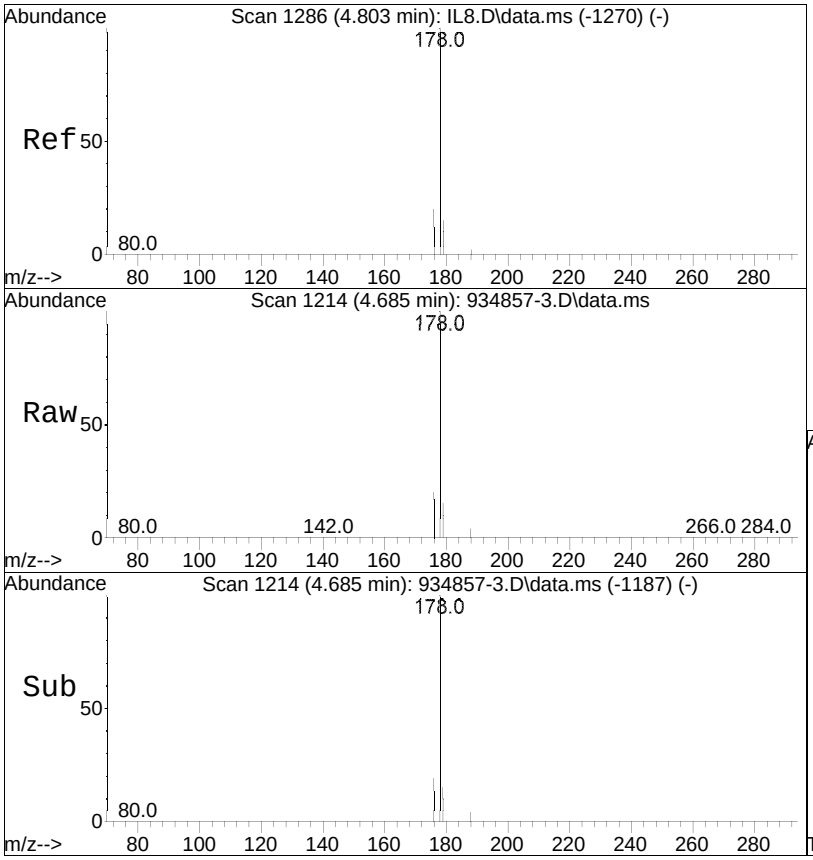


#25
Pentachlorophenol
Concen: 1506.94 ng/ml
RT: 4.571 min Scan# 1173
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:266 Resp: 35552

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.2	75.2

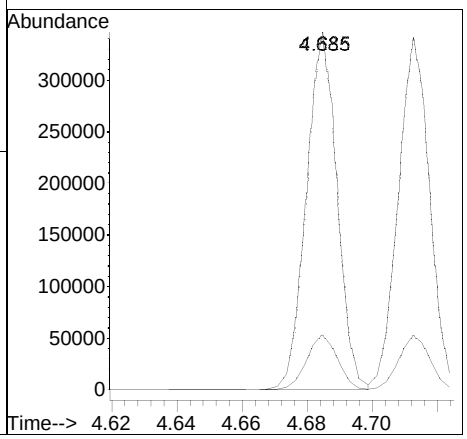


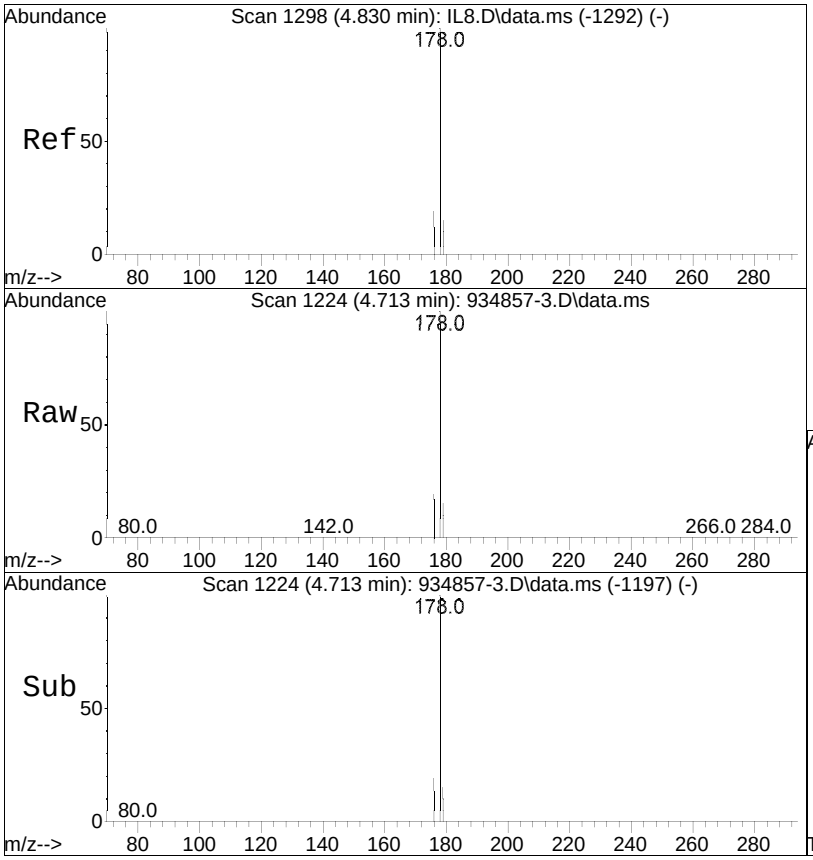


#26
Phenanthrene
Concen: 1437.78 ng/ml
RT: 4.685 min Scan# 1214
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:178 Resp: 226218

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

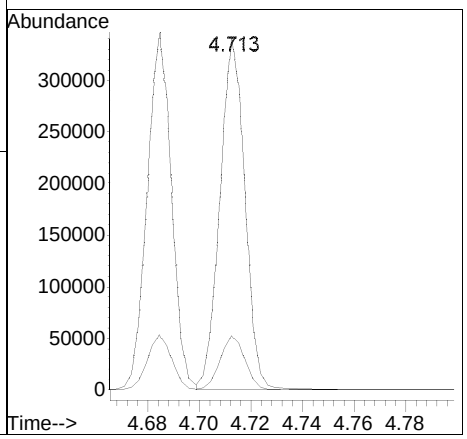


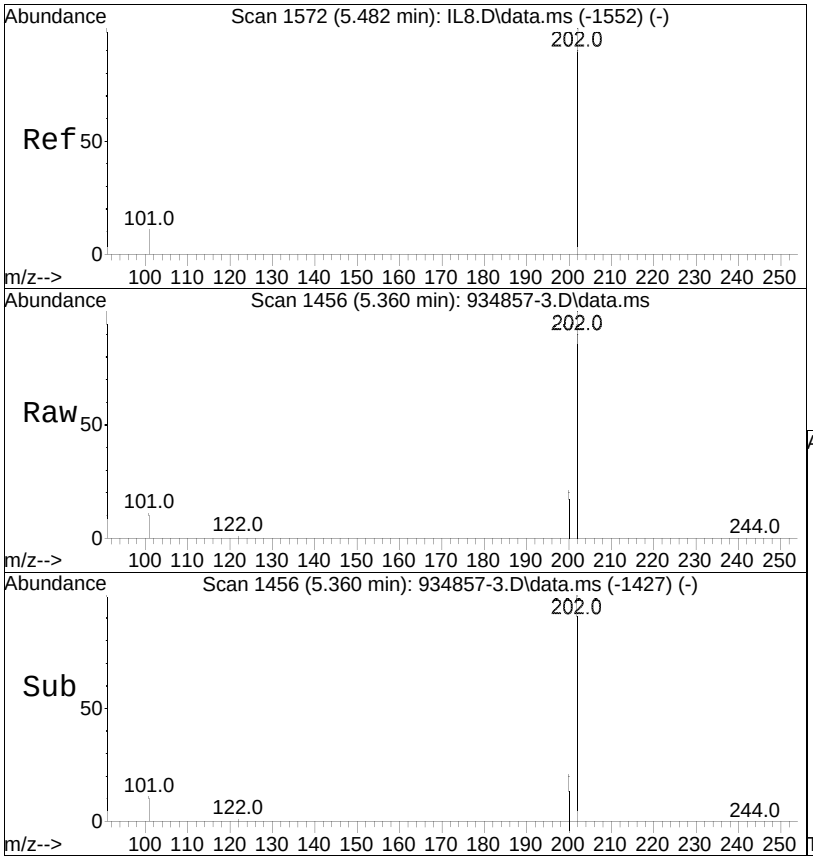


#27
Anthracene
Concen: 1468.21 ng/ml
RT: 4.713 min Scan# 1224
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:178 Resp: 228245

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

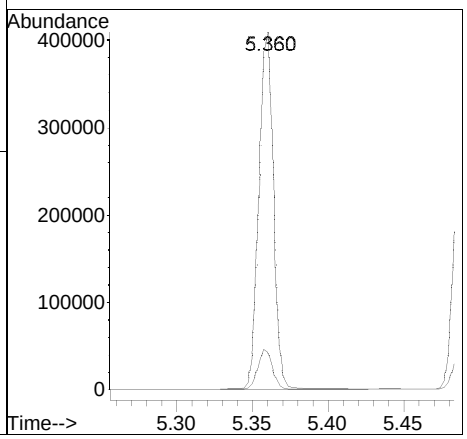


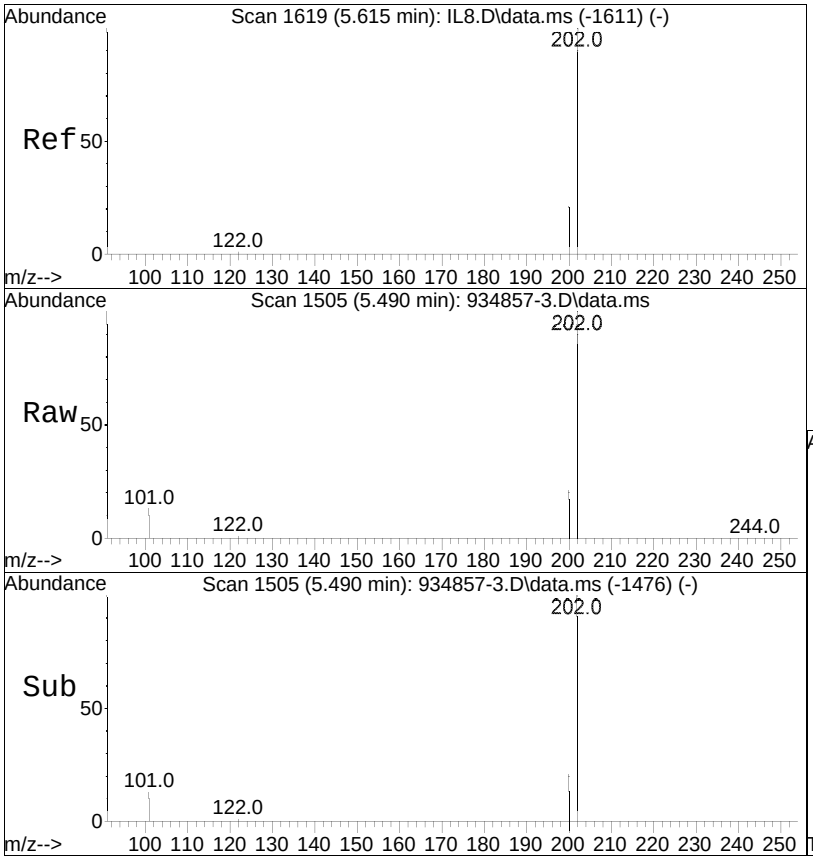


#28
Fluoranthene
Concen: 1602.74 ng/ml
RT: 5.360 min Scan# 1456
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:202 Resp: 273492

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.0	13.6

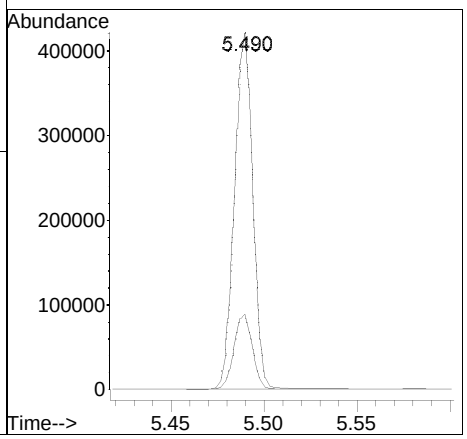


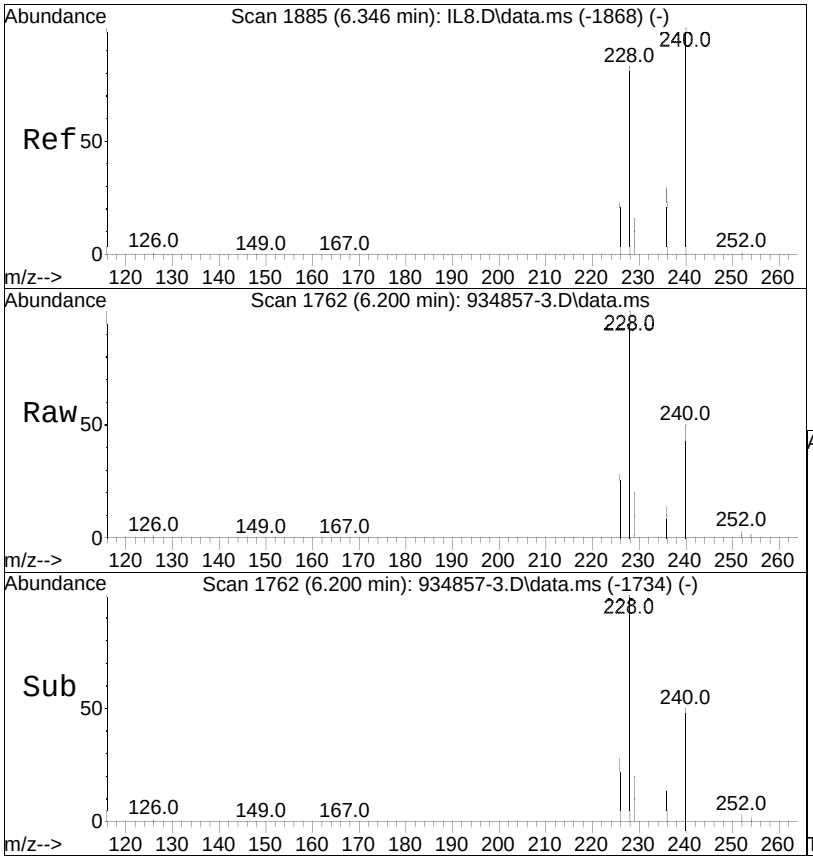


#29
Pyrene
Concen: 1605.73 ng/ml
RT: 5.490 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:202 Resp: 284123

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8

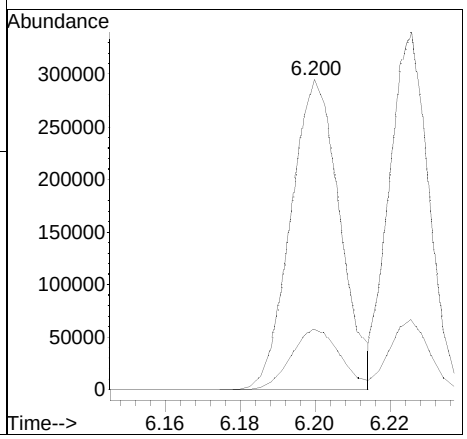


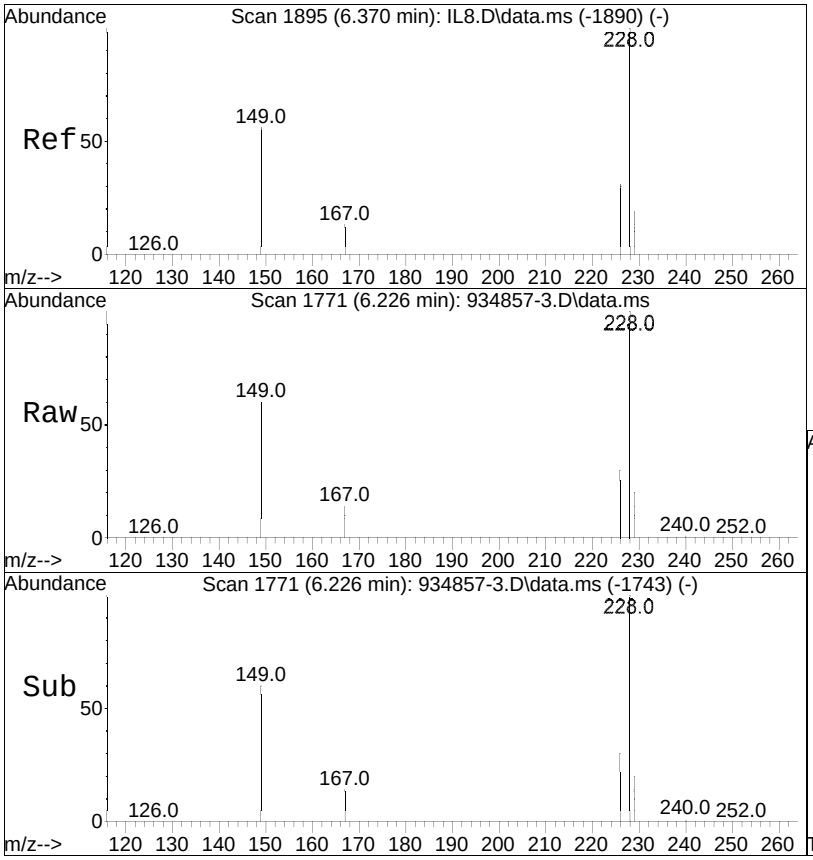


#32
Benzo[a]anthracene
Concen: 1459.94 ng/ml
RT: 6.200 min Scan# 1762
Delta R.T. -0.001 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:228 Resp: 270100

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

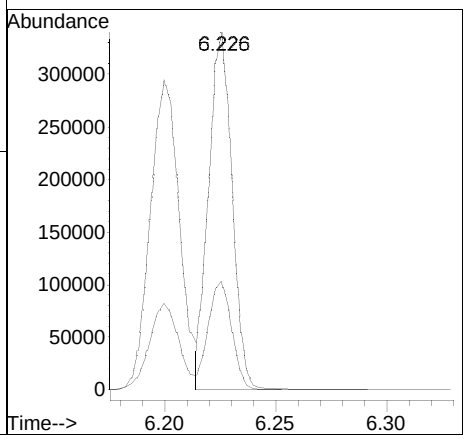


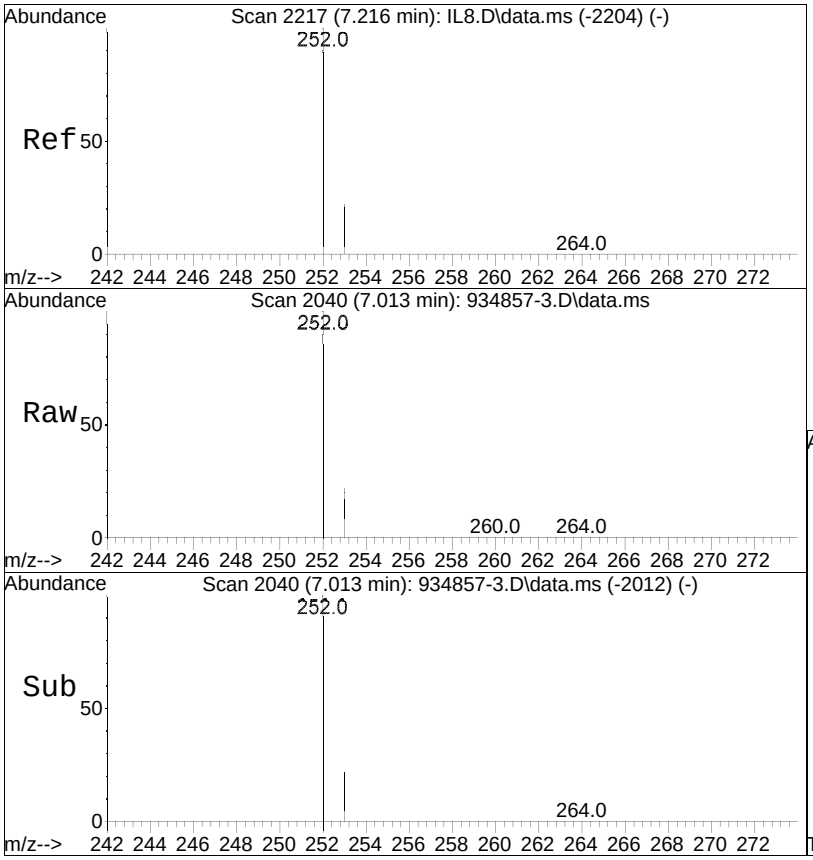


#34
Chrysene
Concen: 1414.65 ng/ml
RT: 6.226 min Scan# 1771
Delta R.T. -0.001 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:228 Resp: 247777

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

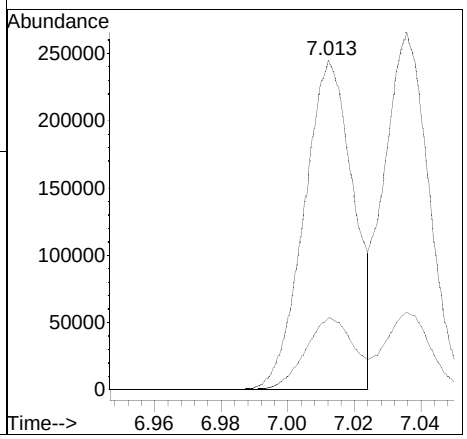


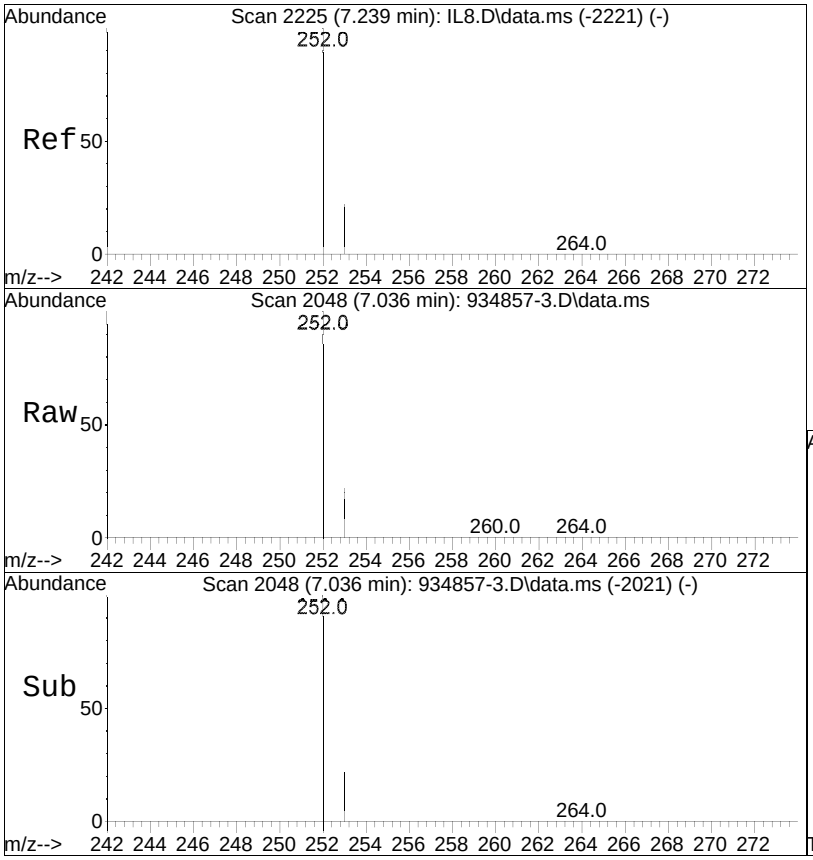


#37
Benzo[b]fluoranthene
Concen: 1555.69 ng/ml
RT: 7.013 min Scan# 2040
Delta R.T. -0.001 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:252 Resp: 255366

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

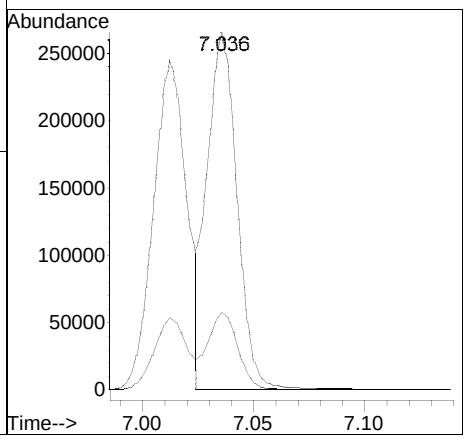


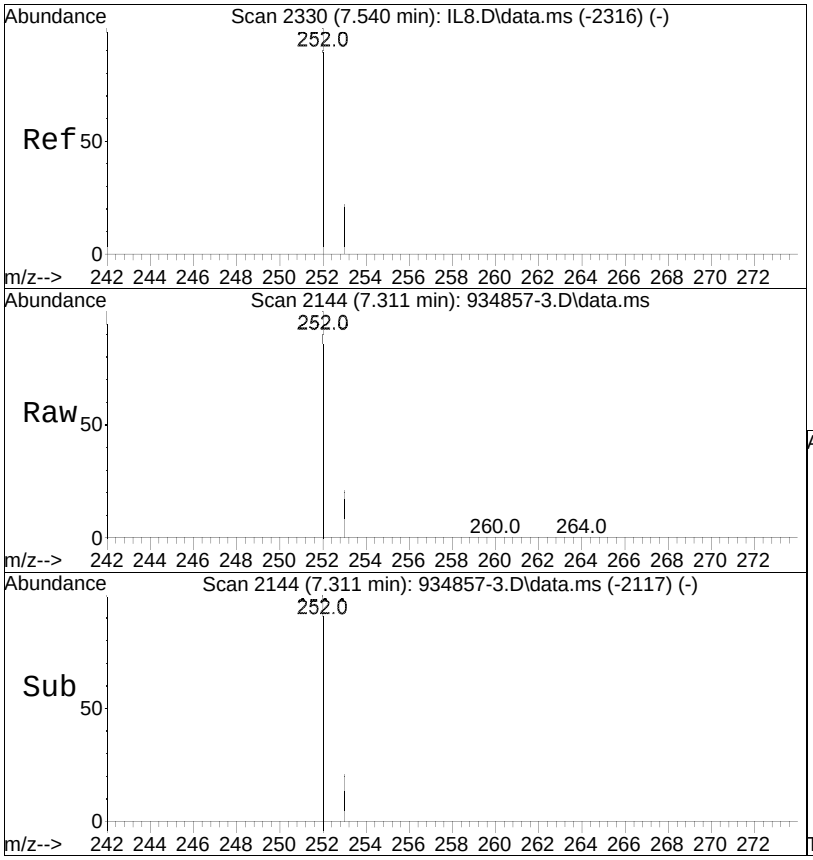


#38
Benzo[k]fluoranthene
Concen: 1572.40 ng/ml
RT: 7.036 min Scan# 2048
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:252 Resp: 245724

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

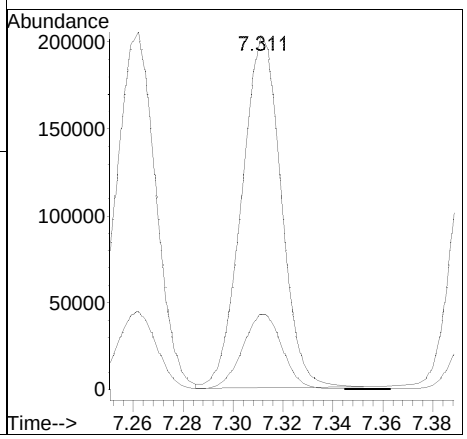


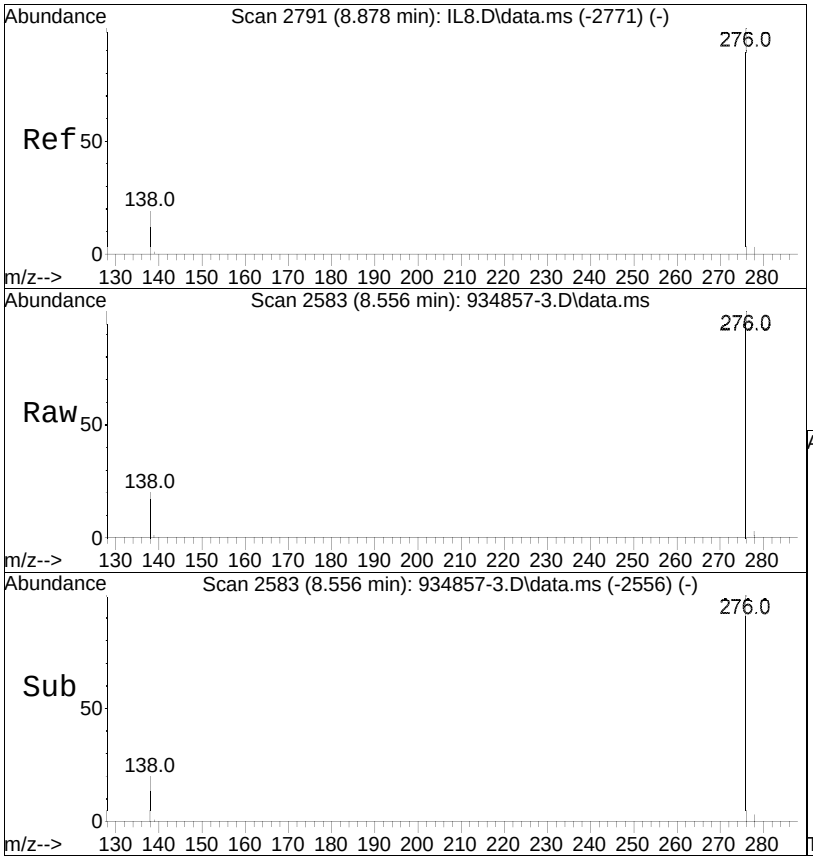


#39
Benzo[a]pyrene
Concen: 1640.10 ng/ml
RT: 7.311 min Scan# 2144
Delta R.T. -0.004 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:252 Resp: 221927

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

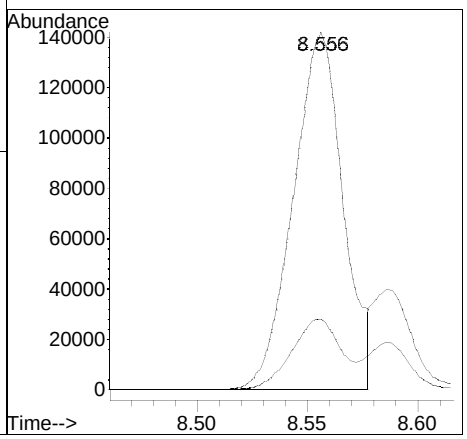


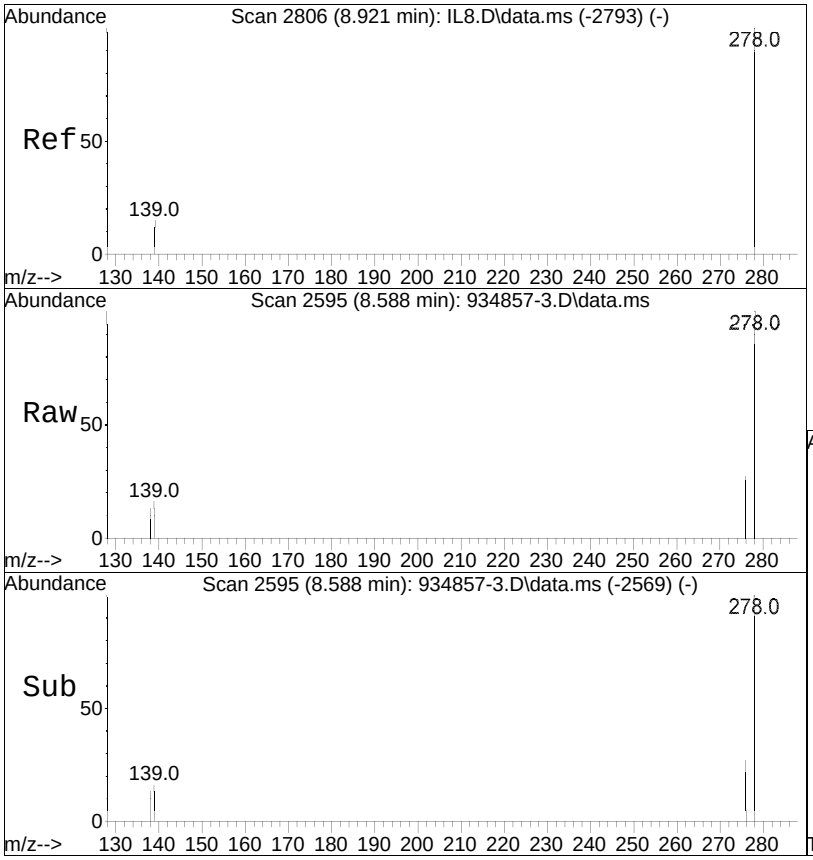


#40
Indeno[1,2,3-cd]pyrene
Concen: 1741.98 ng/ml
RT: 8.556 min Scan# 2583
Delta R.T. -0.006 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:276 Resp: 221991

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

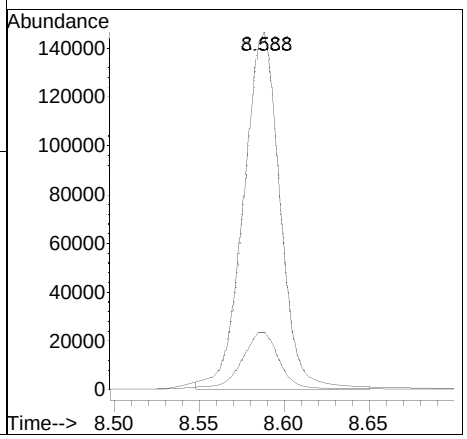


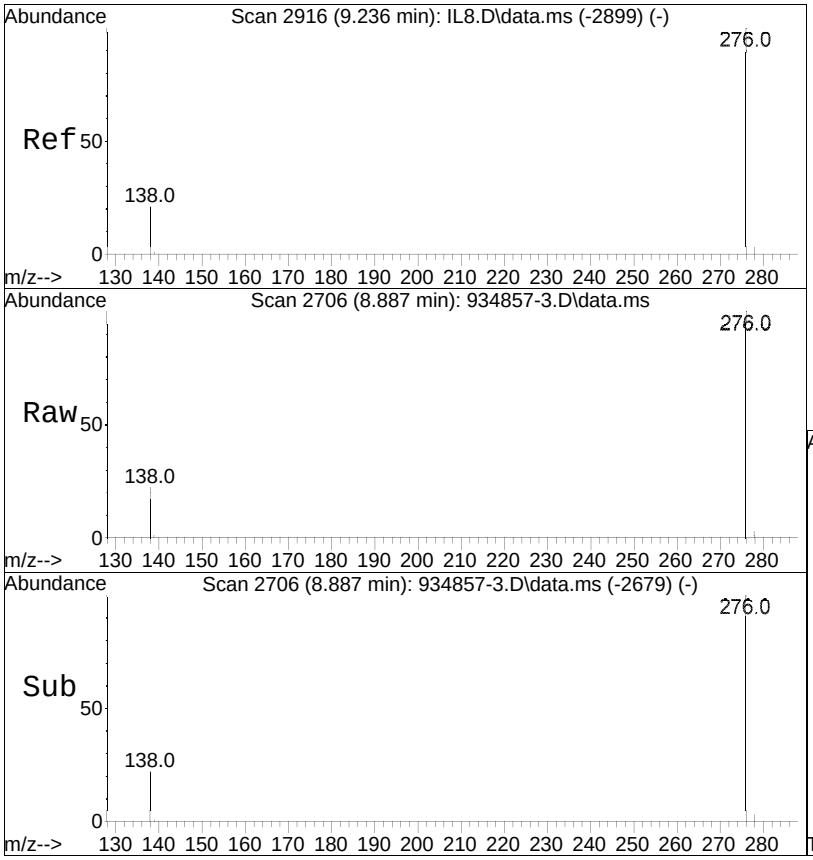


#41
Dibenzo[a,h]anthracene
Concen: 1784.89 ng/ml M6
RT: 8.588 min Scan# 2595
Delta R.T. -0.009 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:278 Resp: 217807

Ion	Ratio	Lower	Upper
278	100		
139	16.6	14.0	21.0

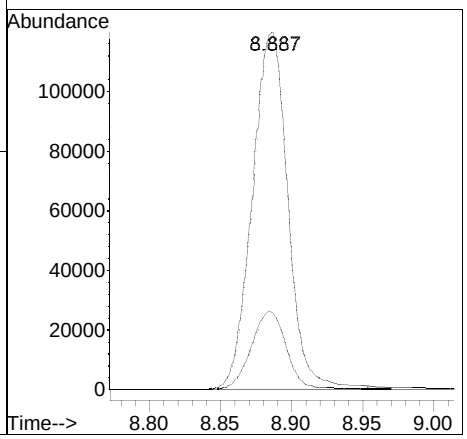




#42
Benzo[g,h,i]perylene
Concen: 1587.06 ng/ml
RT: 8.887 min Scan# 2706
Delta R.T. -0.006 min
Lab File: 934857-3.D
Acq: 17 Jun 2024 08:21 am

Tgt Ion:276 Resp: 205762

Ion	Ratio	Lower	Upper
276	100		
138	21.9	17.8	26.8

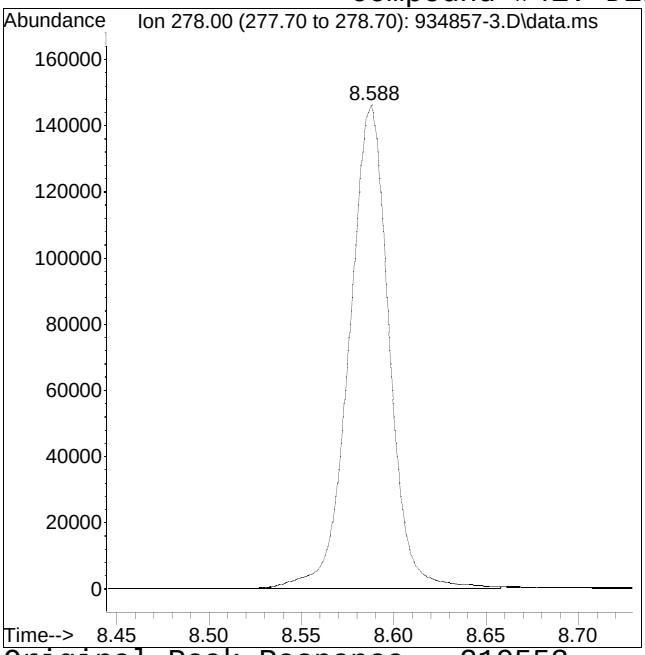


Manual Integration Report

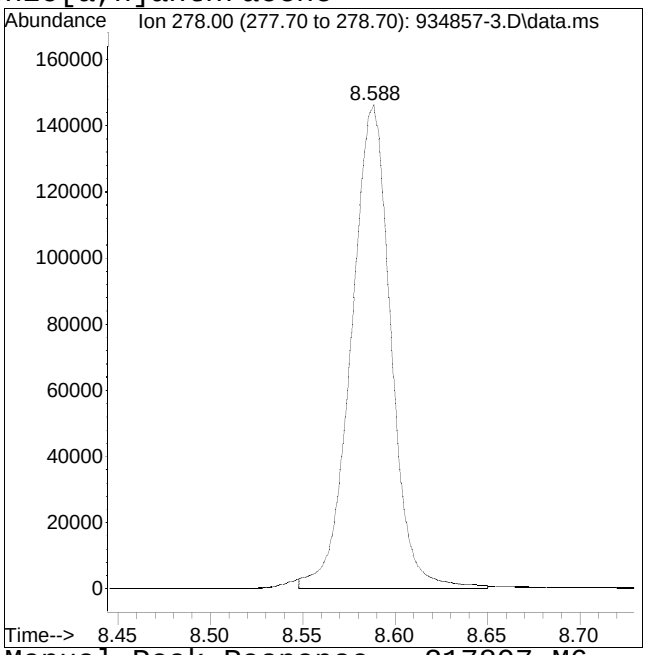
Data Path : I:\8270SIM\sv120\240617RVTQ
Data File : 934857-3.D
Date Inj'd : 6/17/2024 8:21 am
Sample : WG1934857-3,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:ah
Instrument : SV120
Quant Date : 6/17/2024 8:34 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 219553



Manual Peak Response = 217807 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-3.D
Acq On : 19 Jun 2024 11:17 am
Operator : SV120:jjw
Sample : WG1935742-3,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 15:11:44 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	107820	4000.000	ng/ml	0.03
Standard Area 1 = 132040			Recovery = 81.66%			
8) Naphthalene-d8	2.863	136	417855	4000.000	ng/ml	0.02
Standard Area 1 = 488520			Recovery = 85.53%			
17) Acenaphthene-d10	3.836	164	220452	4000.000	ng/ml	0.02
Standard Area 1 = 278744			Recovery = 79.09%			
22) Phenanthrene-d10	4.671	188	446329	4000.000	ng/ml	0.00
Standard Area 1 = 573885			Recovery = 77.77%			
31) Chrysene-d12	6.210	240	374895M2	4000.000	ng/ml	-0.13
Standard Area 1 = 483963			Recovery = 77.46%			
36) Perylene-d12	7.376	264	375293M2	4000.000	ng/ml	-0.13
Standard Area 1 = 464613			Recovery = 80.78%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.639	112	45222	1411.188	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 70.56%			
3) Phenol-d6	2.021	99	41168	1068.743	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.44%			
7) Nitrobenzene-d5	2.483	82	31764	925.522	ng/ml	0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 92.55%			
13) 2-Fluorobiphenyl	3.459	172	70966	798.726	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.87%			
21) 2,4,6-Tribromophenol	4.279	330	29071	1937.994	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 96.90%			
30) 4-Terphenyl-d14	5.582	244	97343M1	1071.903	ng/ml	-0.06
Spiked Amount 2000.000	Range 30 - 130		Recovery = 53.60%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	62666	1840.689	ng/ml	97
6) Hexachloroethane	2.460	117	22049	1429.354	ng/ml	98
9) Naphthalene	2.874	128	180609	1529.136	ng/ml	100
10) Hexachlorobutadiene	2.946	225	30723	1359.791	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	118858	1612.940	ng/ml	100
14) 2-Chloronaphthalene	3.523	162	120905	1605.292	ng/ml	93
16) Acenaphthylene	3.753	152	200685	1810.517	ng/ml	100
18) Acenaphthene	3.853	153	135467	1790.950	ng/ml	95
20) Fluorene	4.141	166	152030	1864.617	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-3.D
Acq On : 19 Jun 2024 11:17 am
Operator : SV120:jjw
Sample : WG1935742-3,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 15:11:44 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240619RVT\ccv0619.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	4.460	284	58665	1824.205	ng/ml	98
25) Pentachlorophenol	4.571	266	38735	2042.022	ng/ml	99
26) Phenanthrene	4.685	178	239968	1912.143	ng/ml	100
27) Anthracene	4.712	178	238011	1919.492	ng/ml	100
28) Fluoranthene	5.360	202	289585	2127.637	ng/ml	100
29) Pyrene	5.489	202	297584M3	2108.520	ng/ml	
32) Benzo[a]anthracene	6.202	228	277466M2	1935.432	ng/ml	
34) Chrysene	6.225	228	263331M3	1937.807	ng/ml	
37) Benzo[b]fluoranthene	7.015	252	257981M3	2078.918	ng/ml	
38) Benzo[k]fluoranthene	7.041	252	262723M3	2223.826	ng/ml	
39) Benzo[a]pyrene	7.313	252	228097M3	2229.809	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.558	276	223698M2	2321.983	ng/ml	
41) Dibenzo[a,h]anthracene	8.593	278	218625M2	2369.887	ng/ml	
42) Benzo[g,h,i]perylene	8.888	276	209309M2	2135.524	ng/ml	

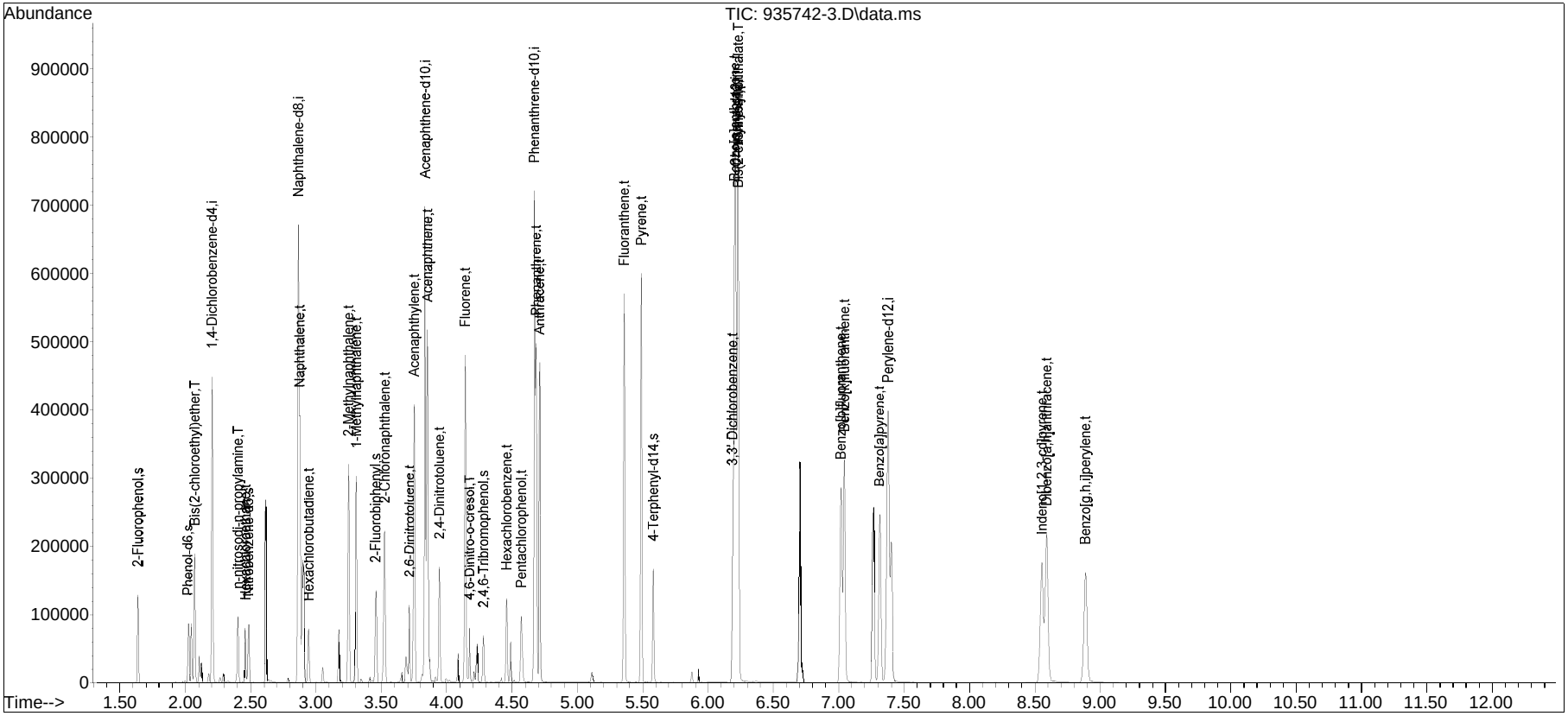
(#) = qualifier out of range (m) = manual integration (+) = signals summed

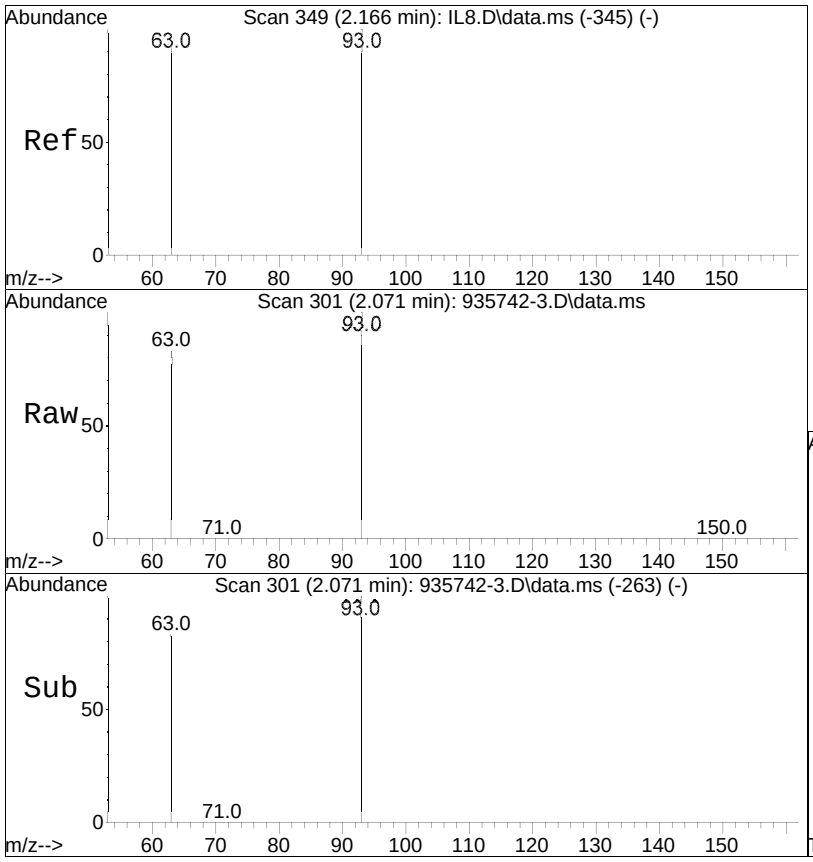
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240619RVT\
Data File : 935742-3.D
Acq On : 19 Jun 2024 11:17 am
Operator : SV120:jjw
Sample : WG1935742-3,32,,jjw
Misc : WG1936395,WG1935742,ical21160
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 15:11:44 2024
Quant Method : I:\8270SIM\sv120\240619RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 09:21:09 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0619.D•

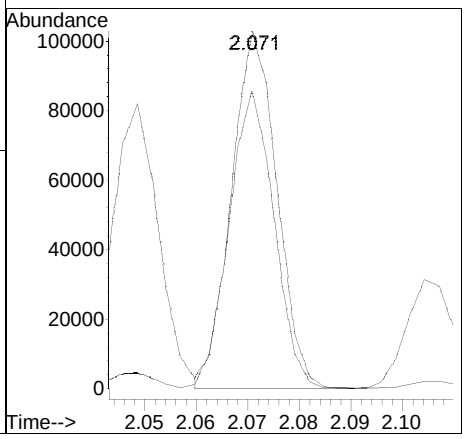


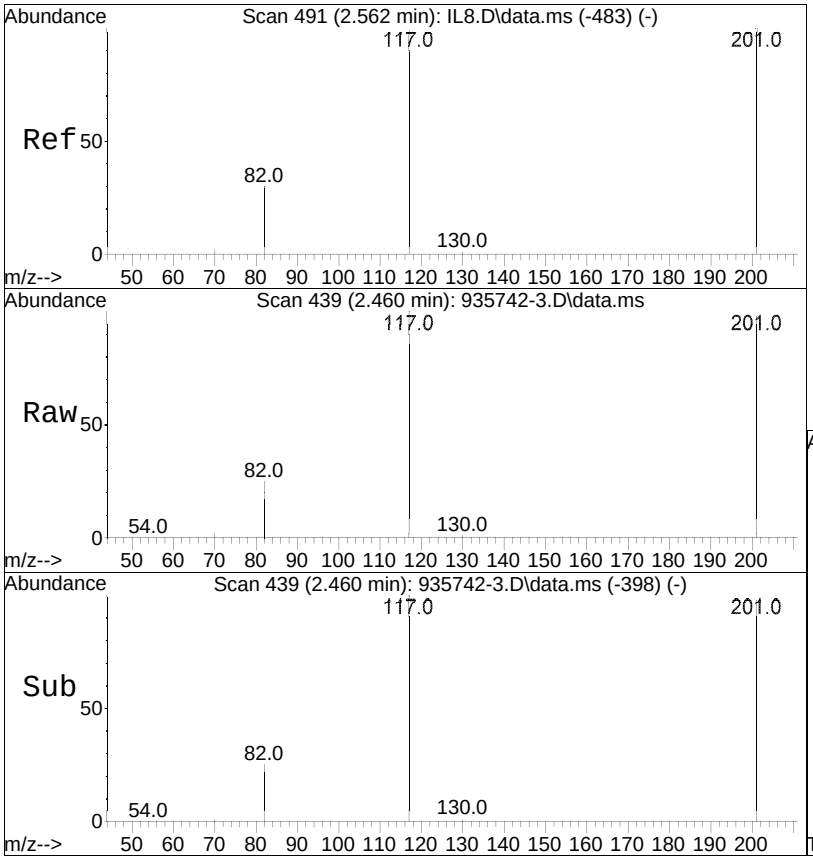


#4
Bis(2-chloroethyl)ether
Concen: 1840.69 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. 0.025 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion: 93 Resp: 62666

Ion	Ratio	Lower	Upper
93	100		
63	82.6	68.6	102.8

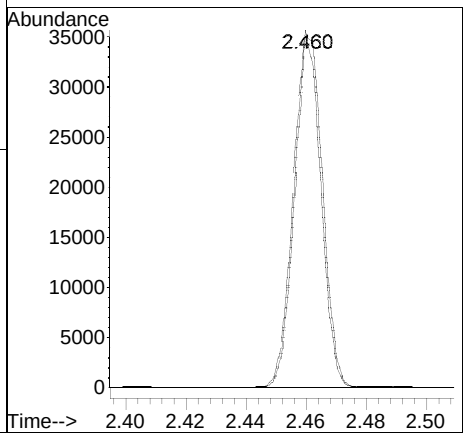


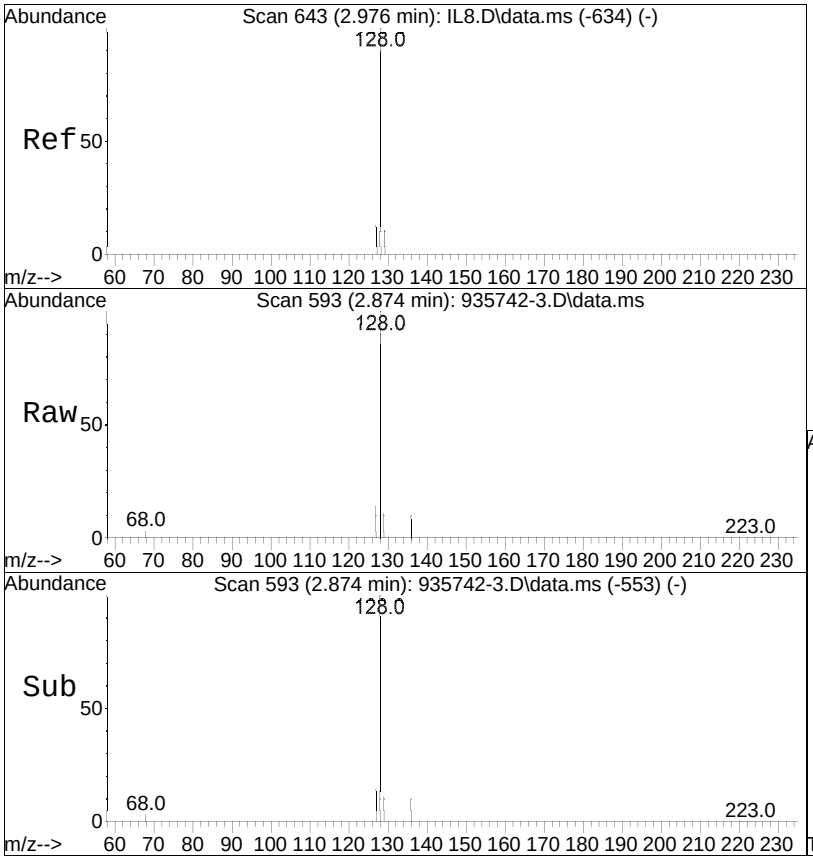


#6
Hexachloroethane
Concen: 1429.35 ng/ml
RT: 2.460 min Scan# 439
Delta R.T. 0.026 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:117 Resp: 22049

Ion	Ratio	Lower	Upper
117	100		
201	101.4	79.4	119.2

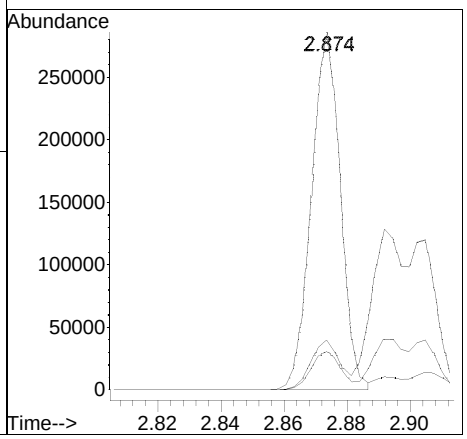


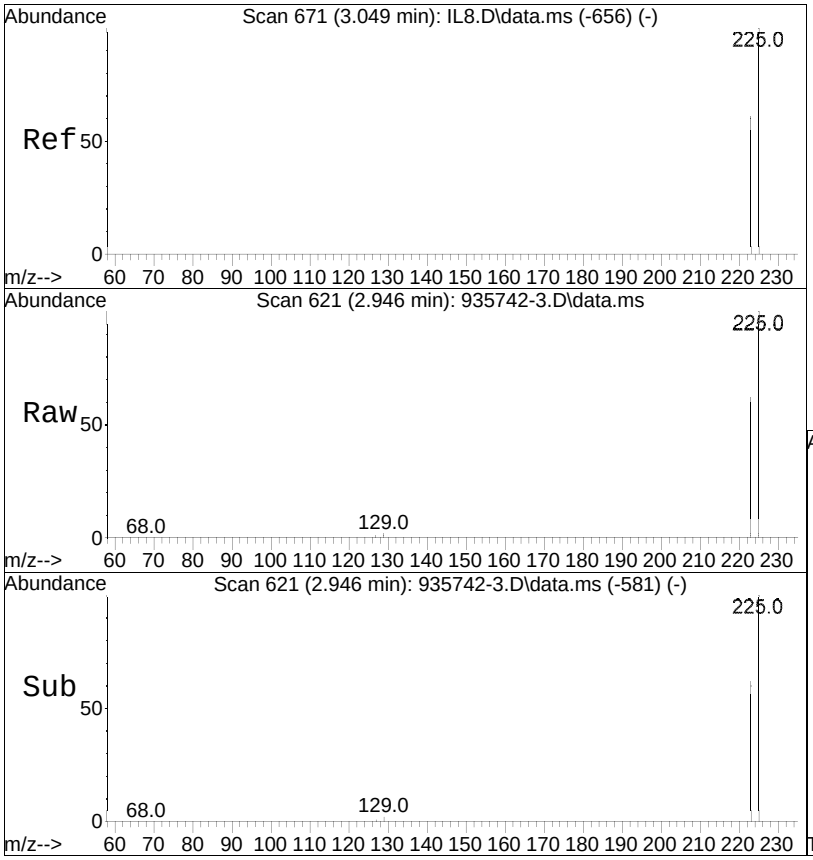


#9
Naphthalene
Concen: 1529.14 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. 0.023 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:128 Resp: 180609

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	14.2	11.3	16.9

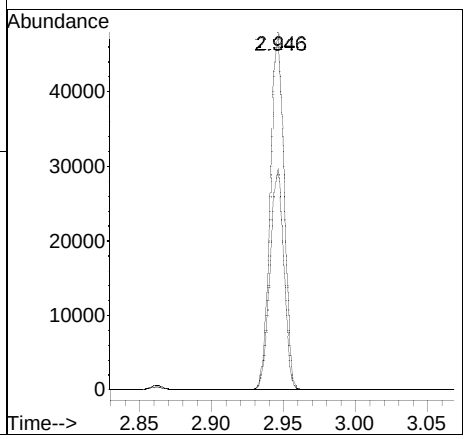


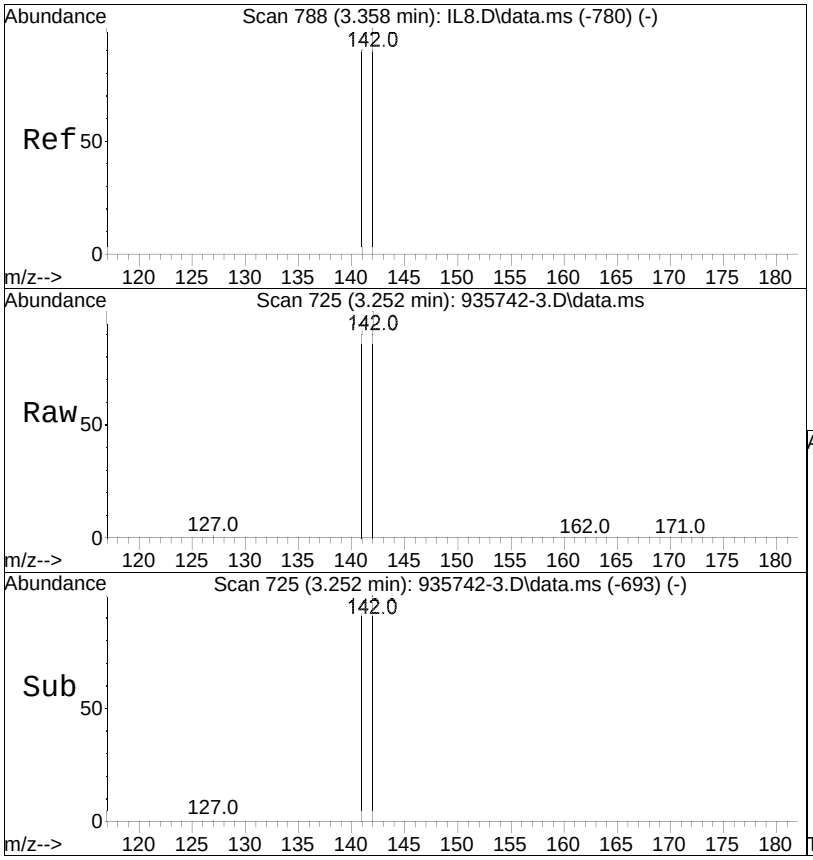


#10
Hexachlorobutadiene
Concen: 1359.79 ng/ml
RT: 2.946 min Scan# 621
Delta R.T. 0.023 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:225 Resp: 30723

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.1	75.1

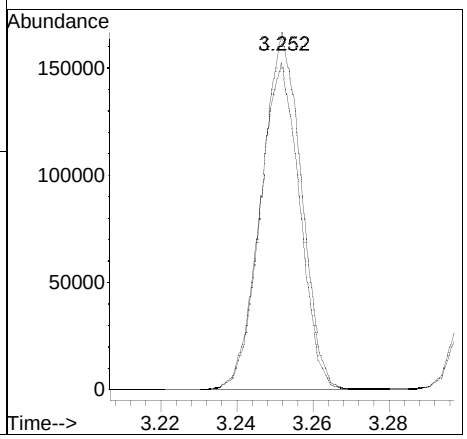


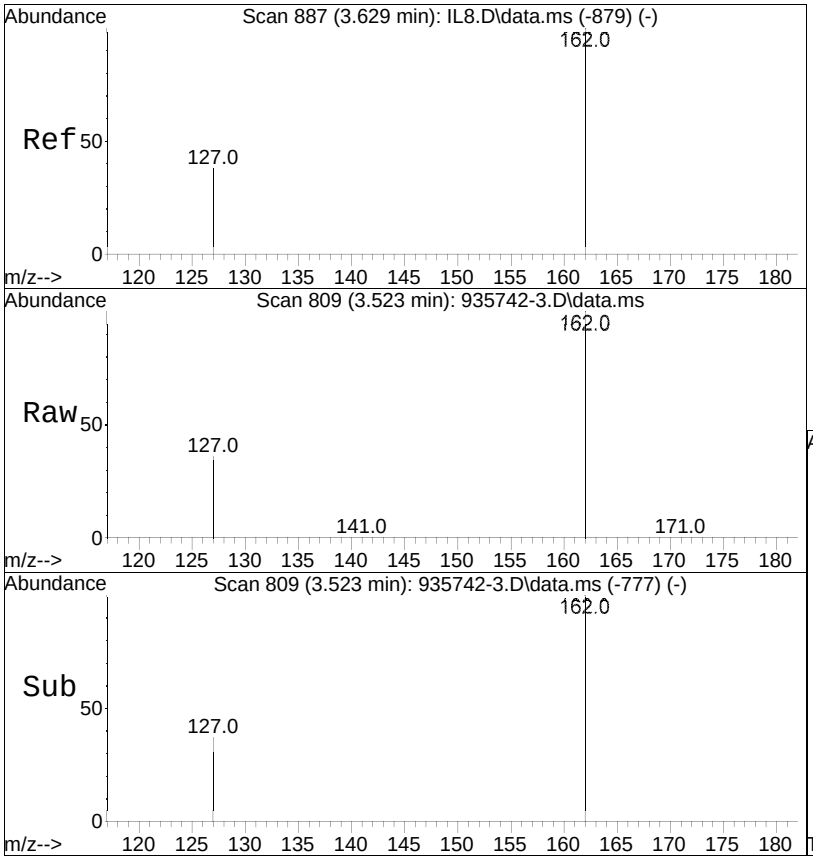


#11
2-Methylnaphthalene
Concen: 1612.94 ng/ml
RT: 3.252 min Scan# 725
Delta R.T. 0.022 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:142 Resp: 118858

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6

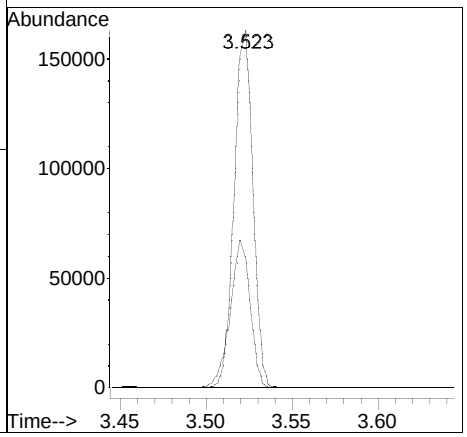


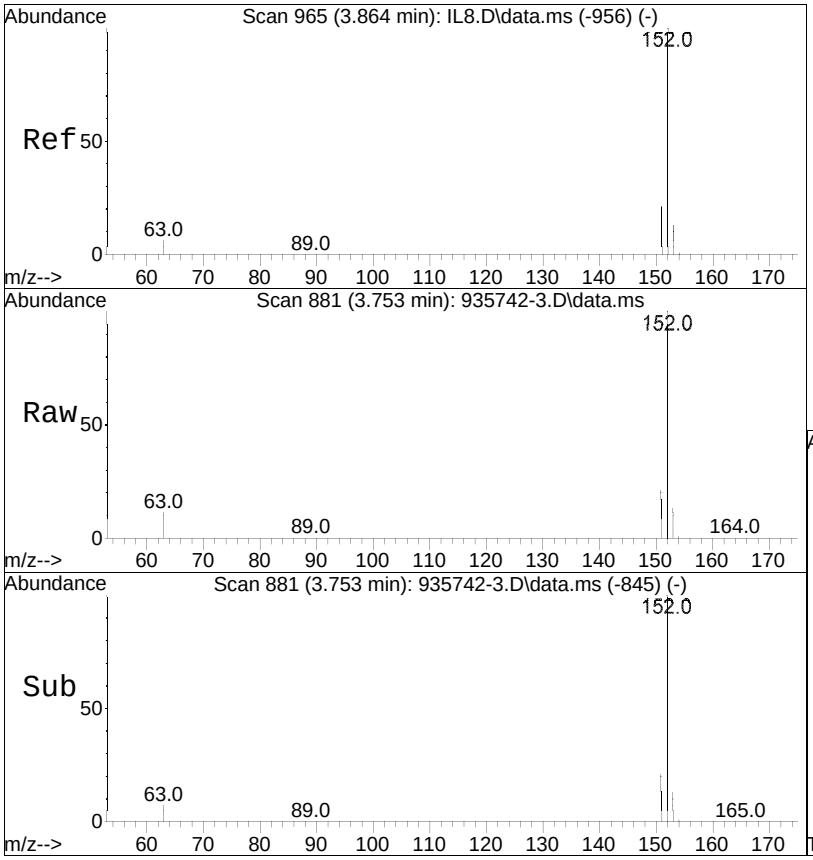


#14
2-Chloronaphthalene
Concen: 1605.29 ng/ml
RT: 3.523 min Scan# 809
Delta R.T. 0.022 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:162 Resp: 120905

Ion	Ratio	Lower	Upper
162	100		
127	44.3	32.0	48.0

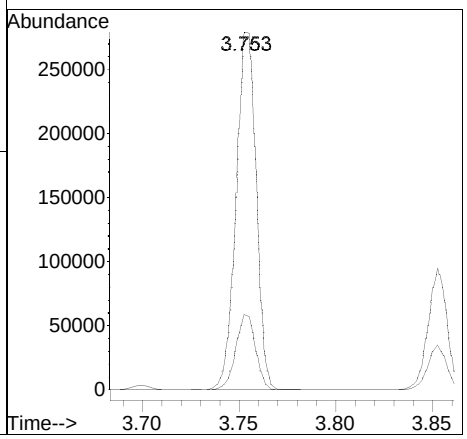


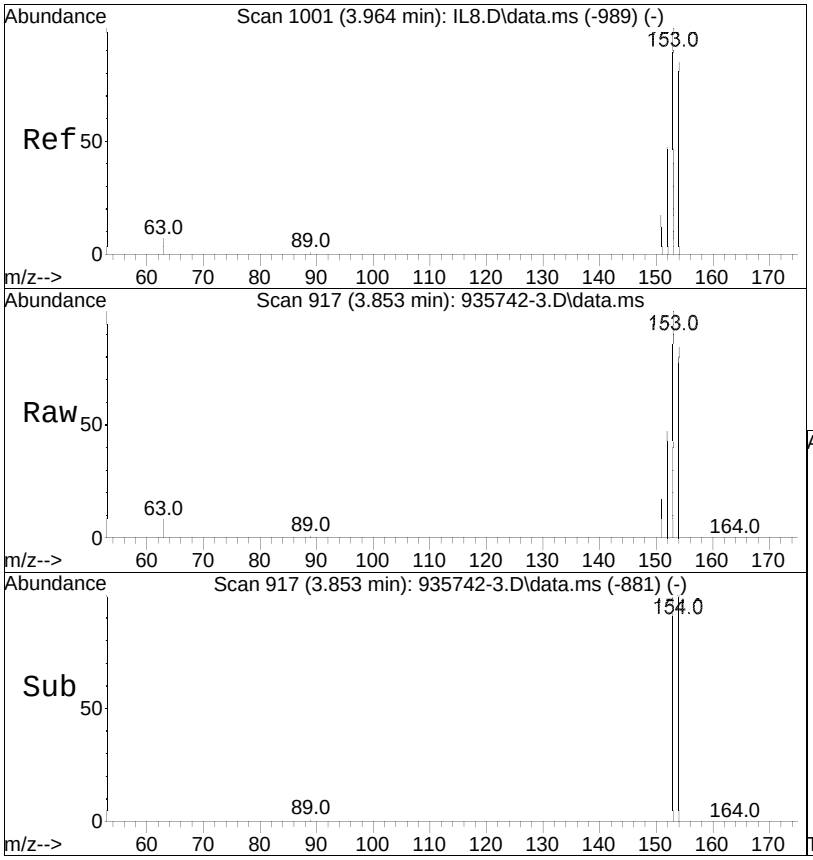


#16
Acenaphthylene
Concen: 1810.52 ng/ml
RT: 3.753 min Scan# 881
Delta R.T. 0.019 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:152 Resp: 200685

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7

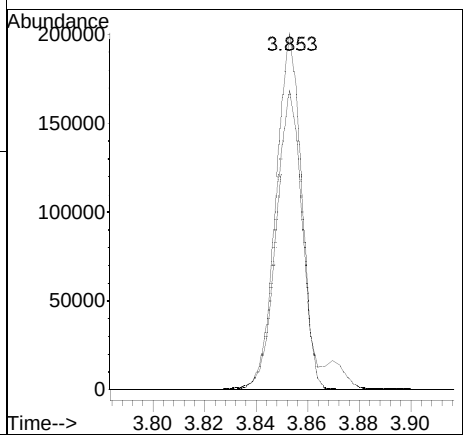


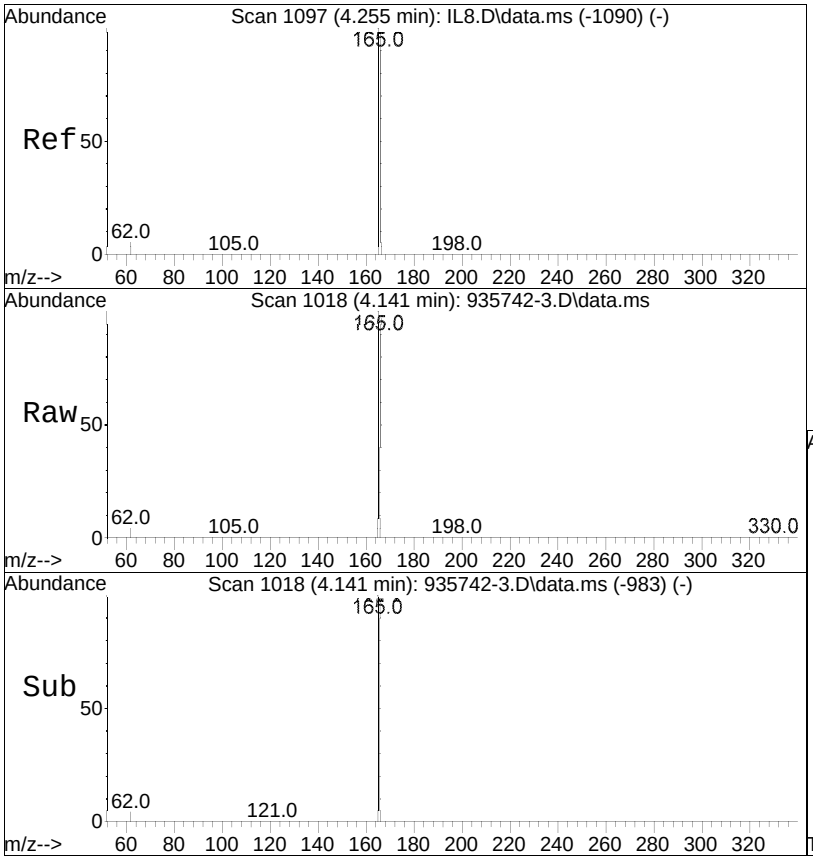


#18
Acenaphthene
Concen: 1790.95 ng/ml
RT: 3.853 min Scan# 917
Delta R.T. 0.019 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:153 Resp: 135467

Ion	Ratio	Lower	Upper
153	100		
154	87.3	73.4	110.2

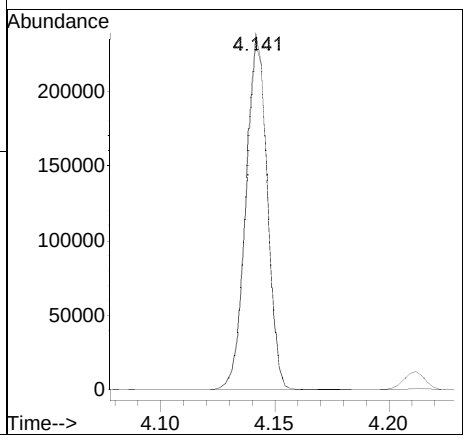


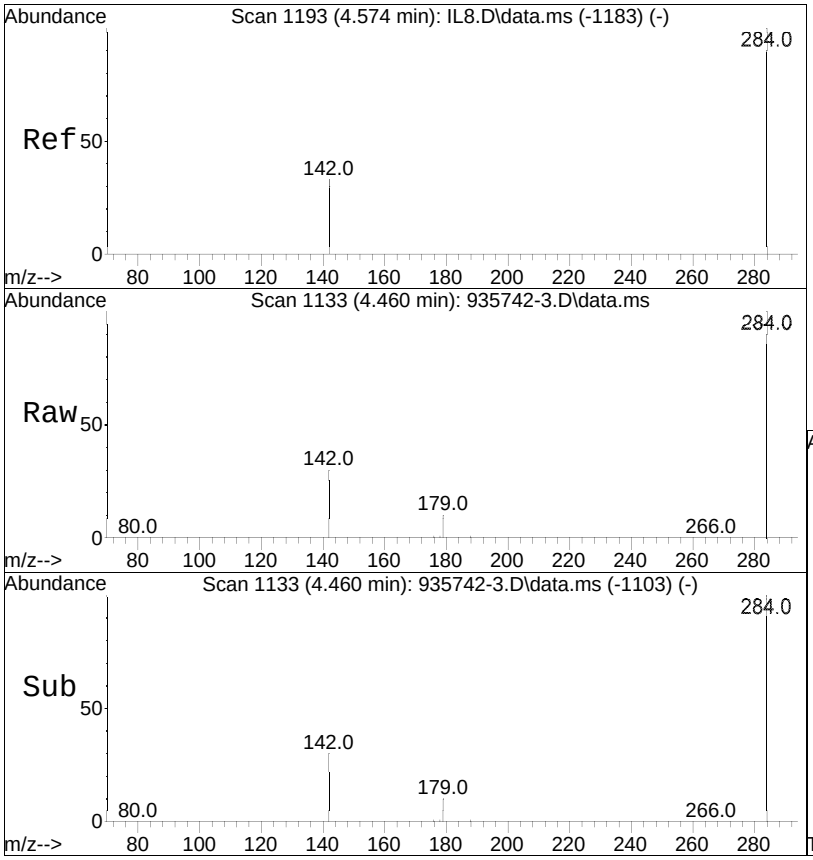


#20
Fluorene
Concen: 1864.62 ng/ml
RT: 4.141 min Scan# 1018
Delta R.T. 0.018 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:166 Resp: 152030

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.9	122.9

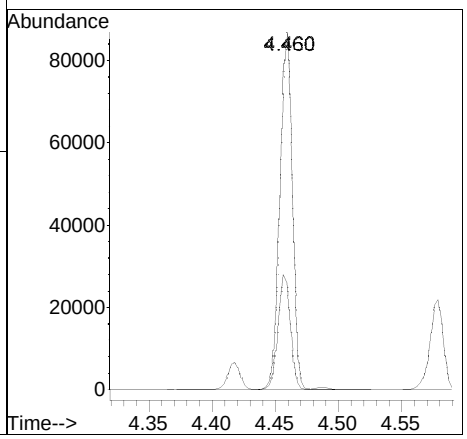


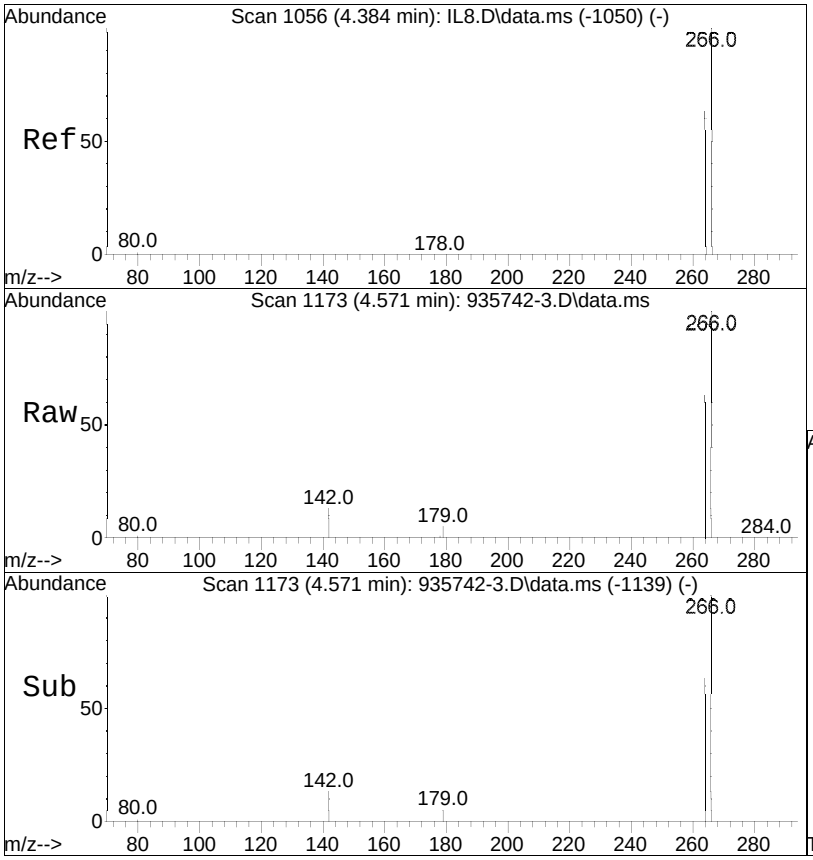


#24
Hexachlorobenzene
Concen: 1824.21 ng/ml
RT: 4.460 min Scan# 1133
Delta R.T. 0.014 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:284 Resp: 58665

Ion	Ratio	Lower	Upper
284	100		
142	32.2	26.8	40.2

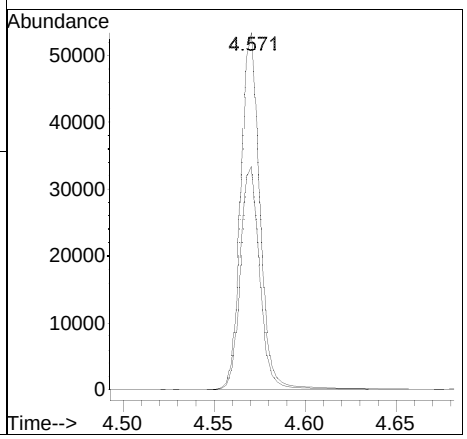


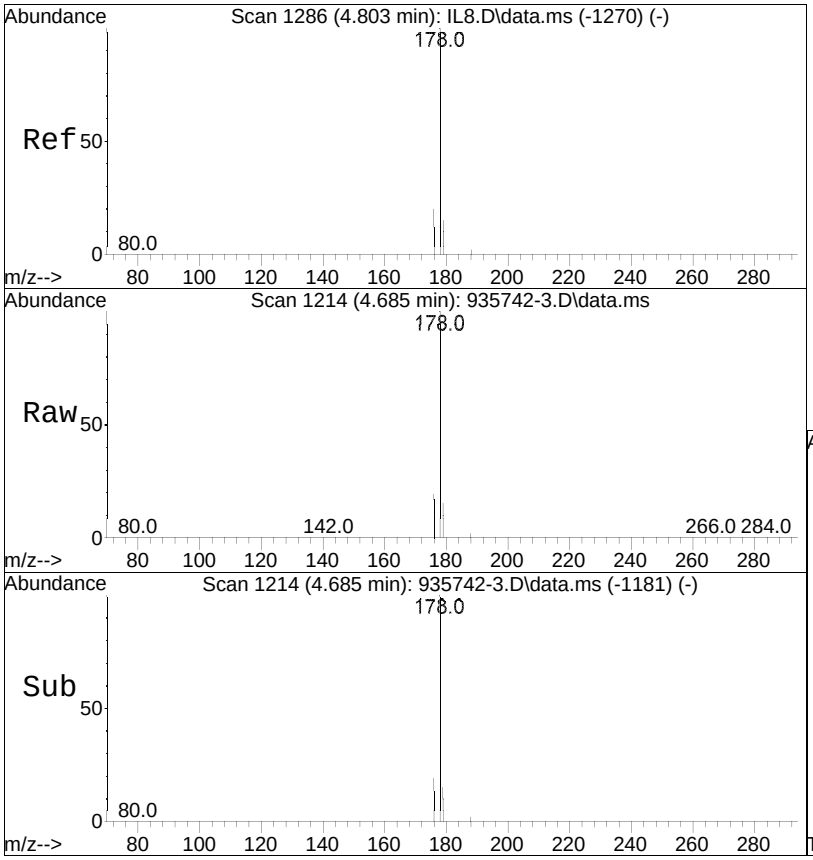


#25
Pentachlorophenol
Concen: 2042.02 ng/ml
RT: 4.571 min Scan# 1173
Delta R.T. 0.014 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:266 Resp: 38735

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.2	75.2

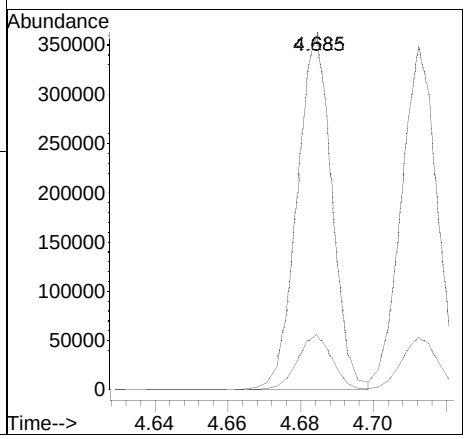


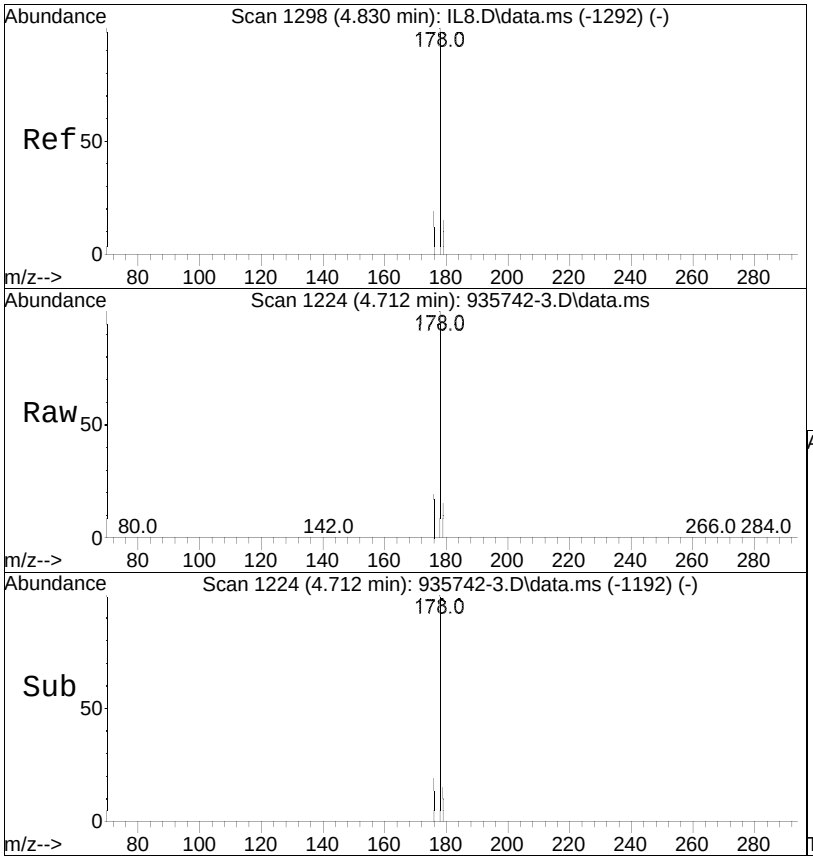


#26
Phenanthrene
Concen: 1912.14 ng/ml
RT: 4.685 min Scan# 1214
Delta R.T. 0.012 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:178 Resp: 239968

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

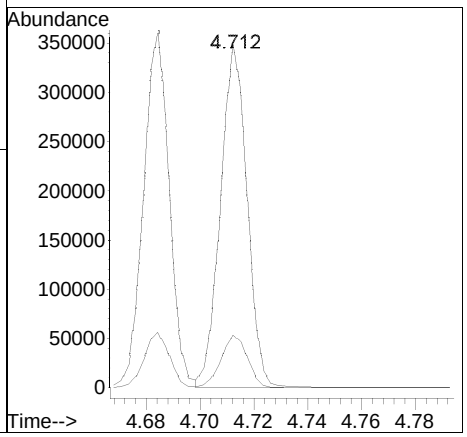


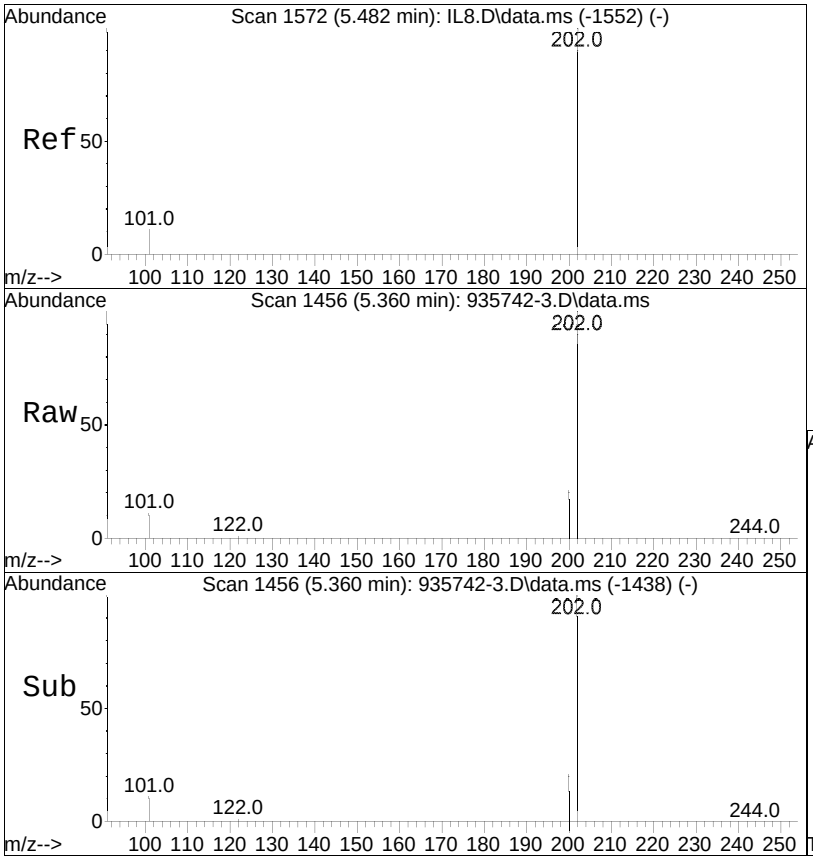


#27
Anthracene
Concen: 1919.49 ng/ml
RT: 4.712 min Scan# 1224
Delta R.T. 0.009 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:178 Resp: 238011

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

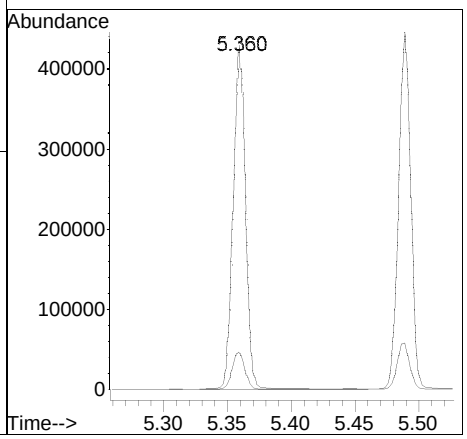


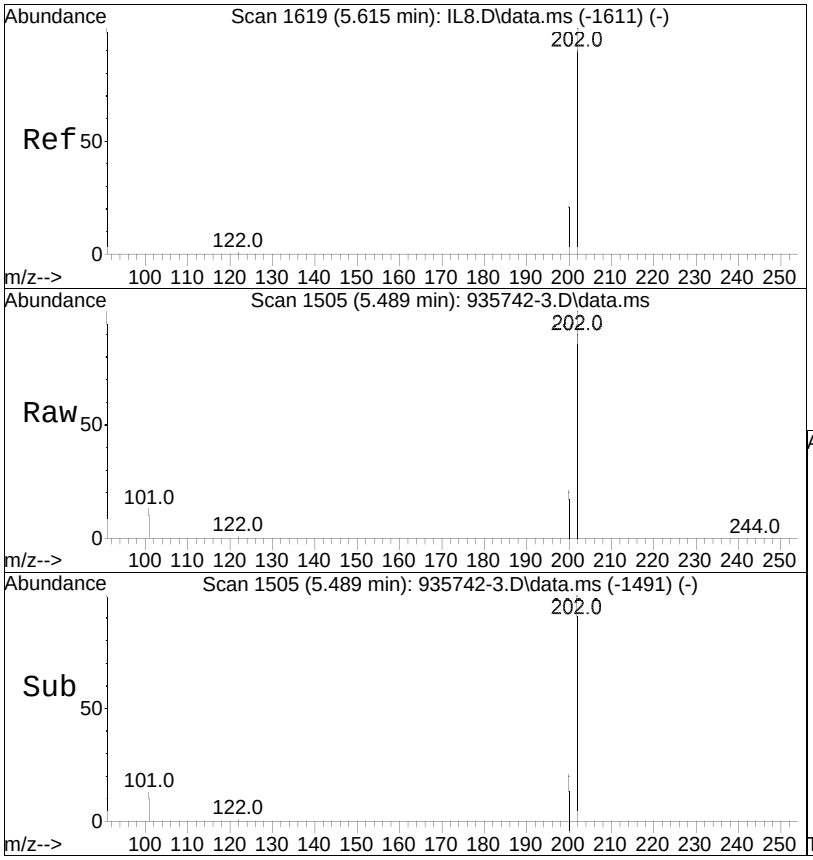


#28
Fluoranthene
Concen: 2127.64 ng/ml
RT: 5.360 min Scan# 1456
Delta R.T. -0.032 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:202 Resp: 289585

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6

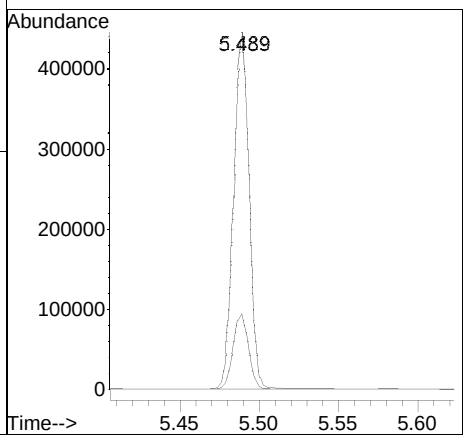


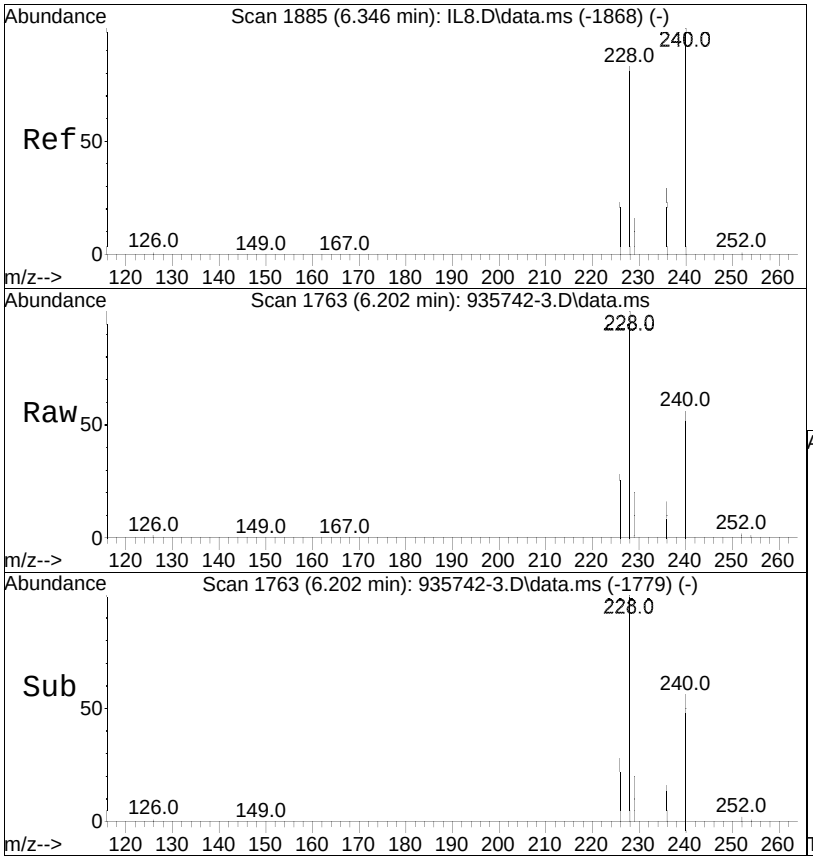


#29
Pyrene
Concen: 2108.52 ng/ml M3
RT: 5.489 min Scan# 1505
Delta R.T. -0.042 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:202 Resp: 297584

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8

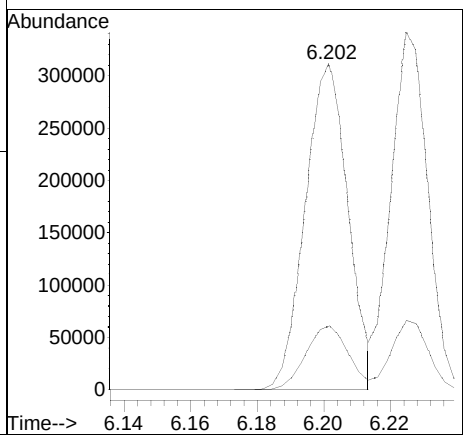


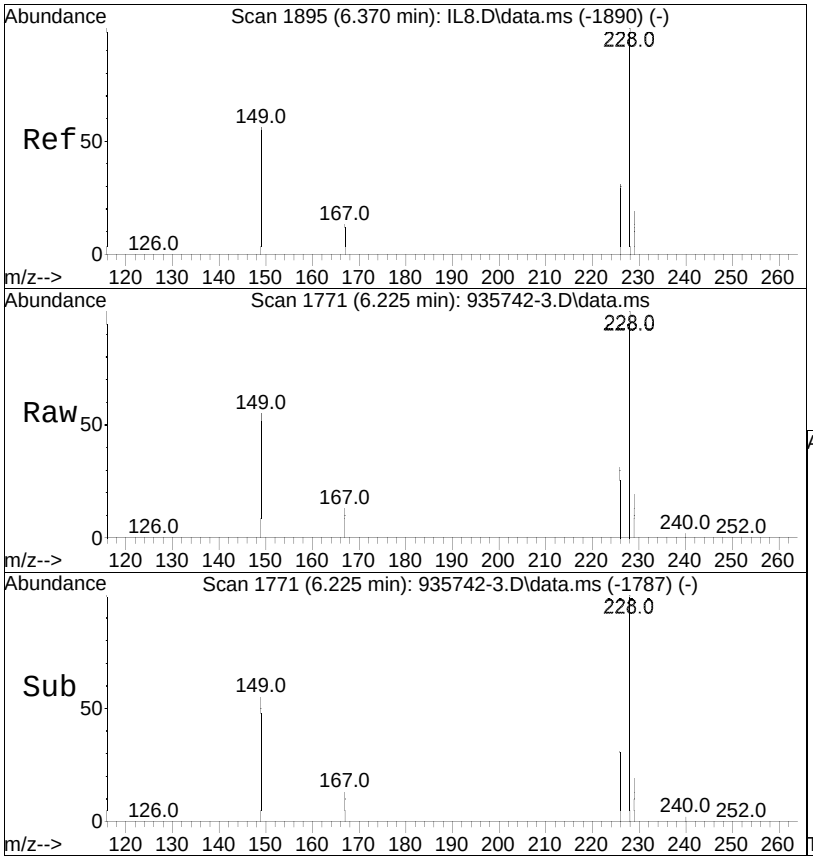


#32
Benzo[a]anthracene
Concen: 1935.43 ng/ml M2
RT: 6.202 min Scan# 1763
Delta R.T. -0.126 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:228 Resp: 277466

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

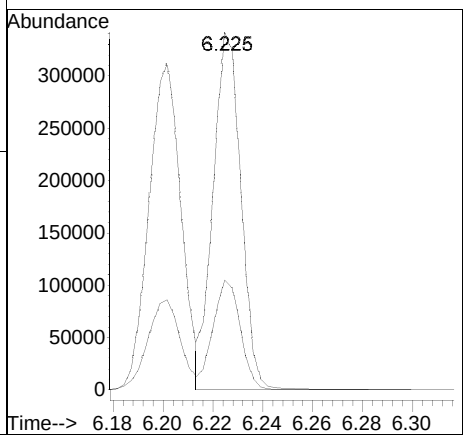


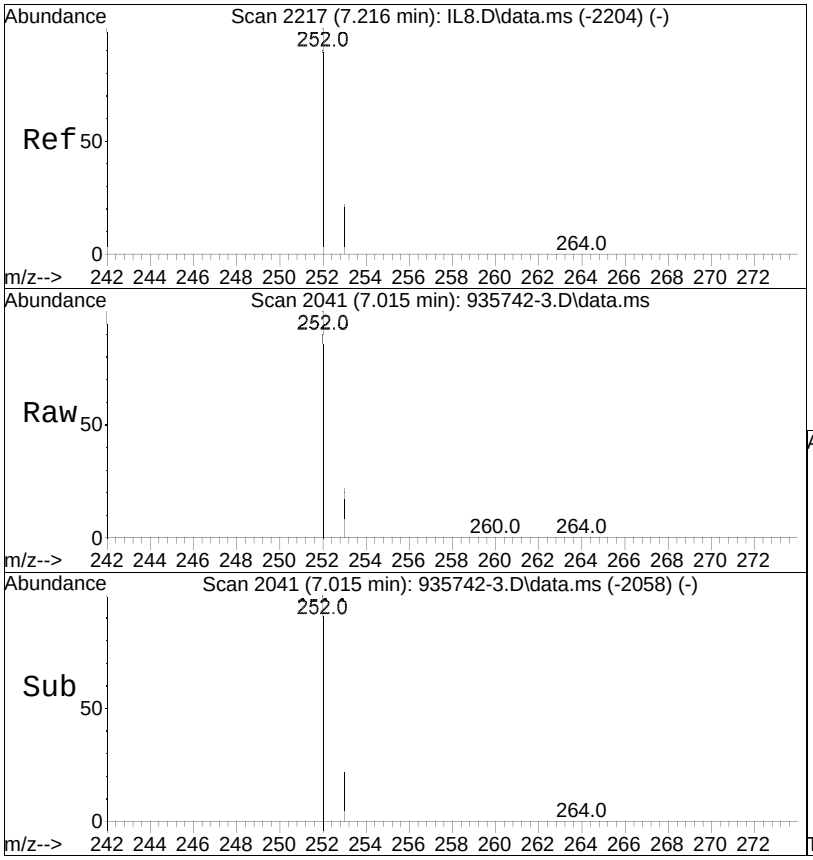


#34
Chrysene
Concen: 1937.81 ng/ml M3
RT: 6.225 min Scan# 1771
Delta R.T. -0.126 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:228 Resp: 263331

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

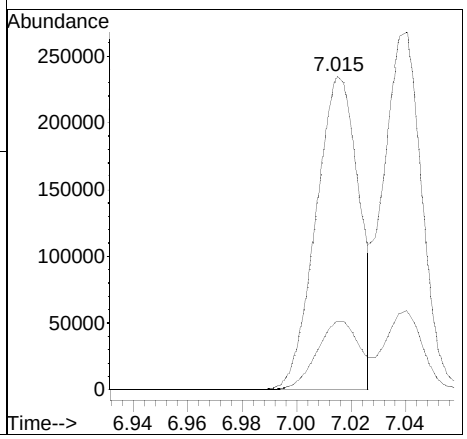


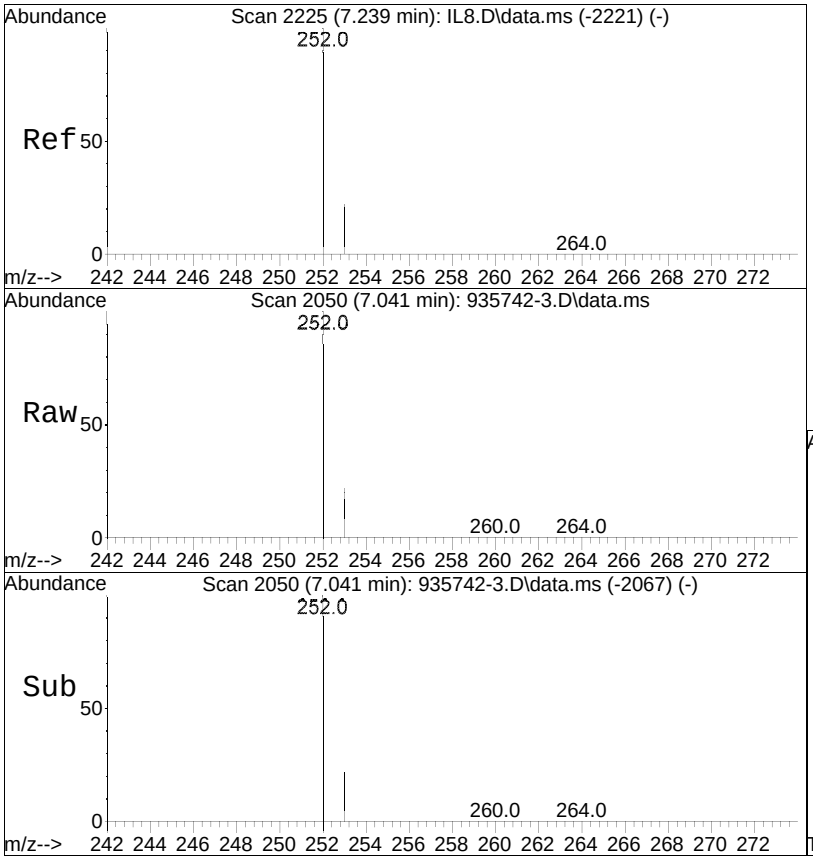


#37
Benzo[b]fluoranthene
Concen: 2078.92 ng/ml M3
RT: 7.015 min Scan# 2041
Delta R.T. -0.129 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:252 Resp: 257981

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

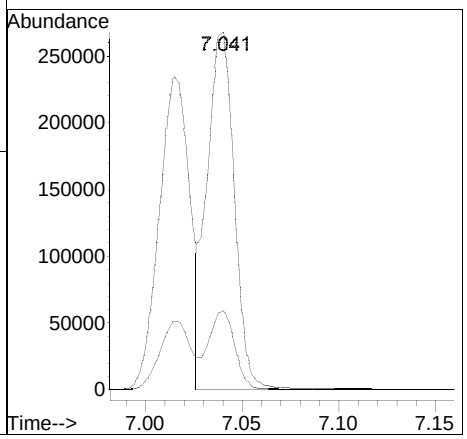


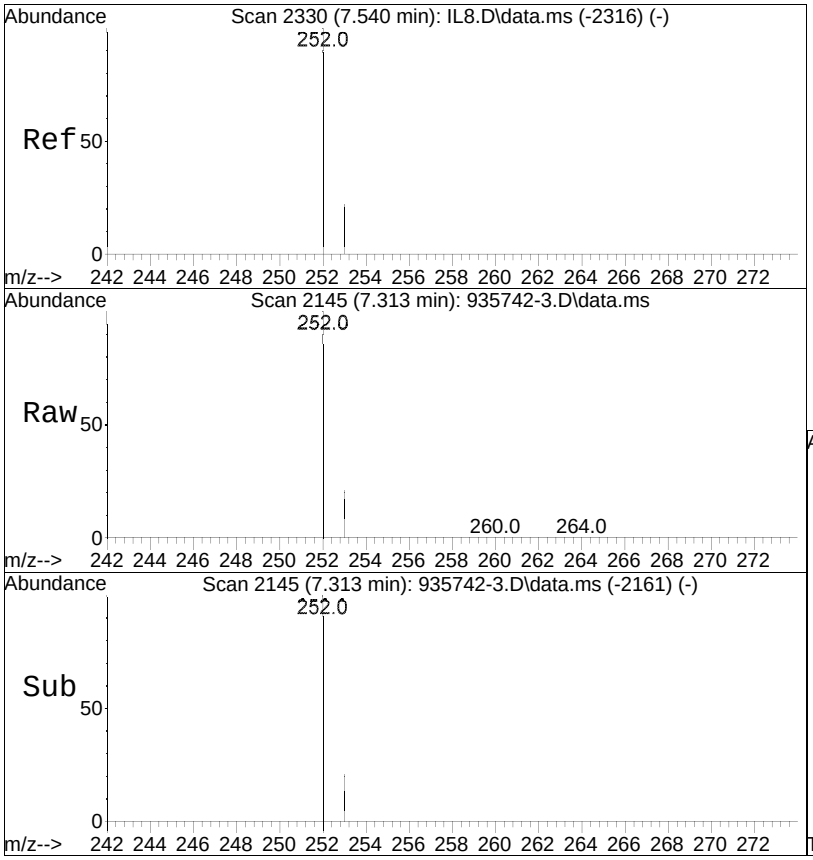


#38
Benzo[k]fluoranthene
Concen: 2223.83 ng/ml M3
RT: 7.041 min Scan# 2050
Delta R.T. -0.129 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:252 Resp: 262723

Ion	Ratio	Lower	Upper
252	100		
253	20.4	17.5	26.3

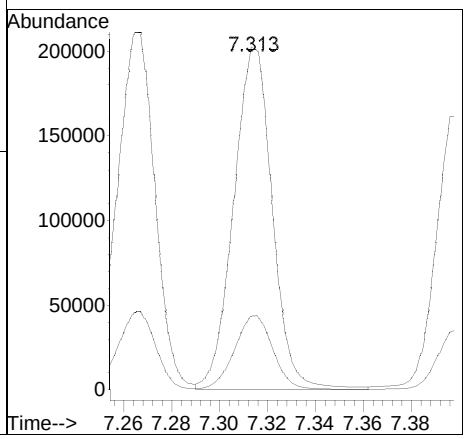


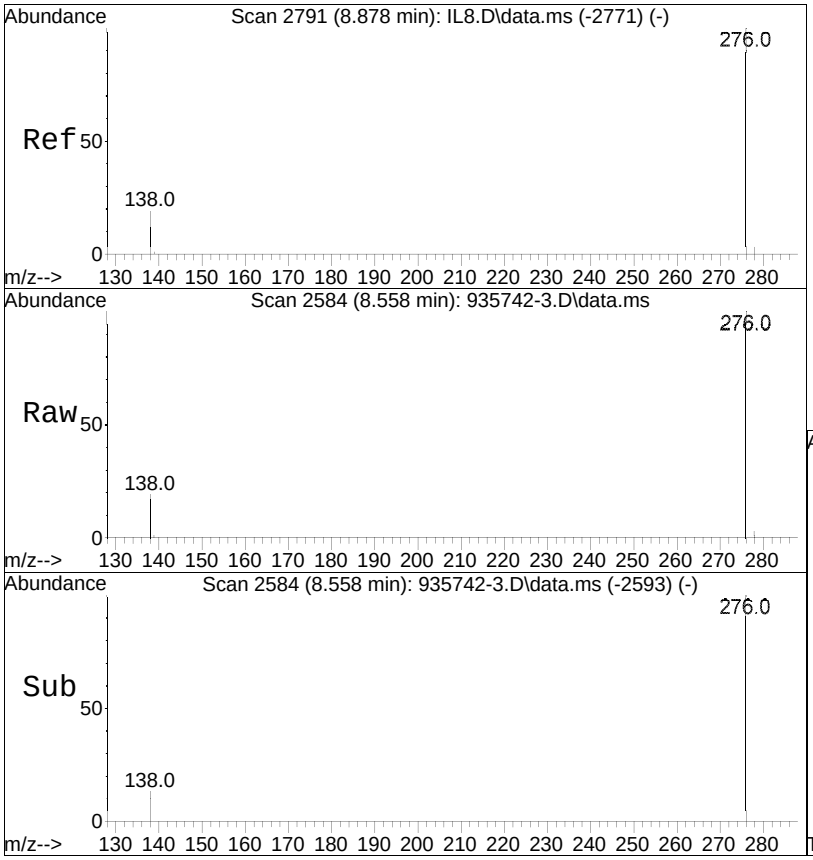


#39
Benzo[a]pyrene
Concen: 2229.81 ng/ml M3
RT: 7.313 min Scan# 2145
Delta R.T. -0.126 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:252 Resp: 228097

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

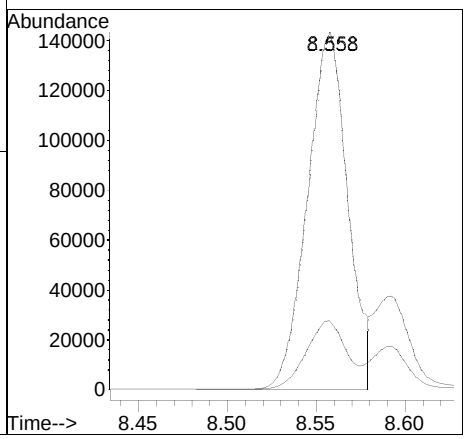


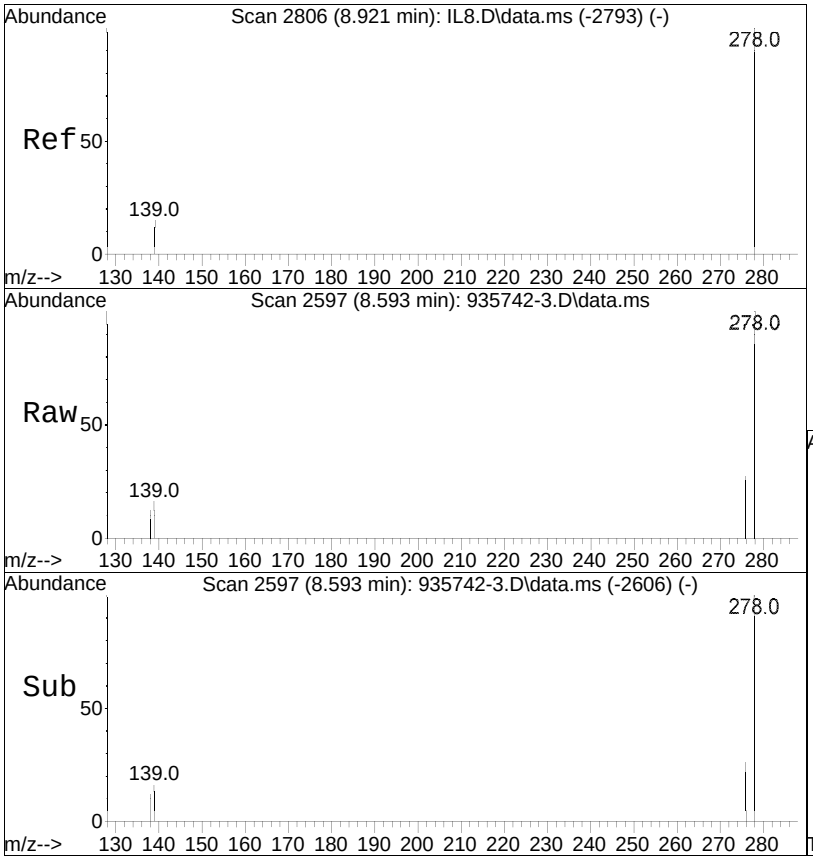


#40
Indeno[1,2,3-cd]pyrene
Concen: 2321.98 ng/ml M2
RT: 8.558 min Scan# 2584
Delta R.T. -0.105 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:276 Resp: 223698

Ion	Ratio	Lower	Upper
276	100		
138	19.2	16.6	24.8

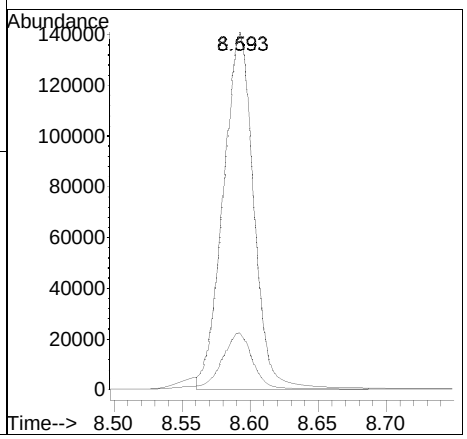


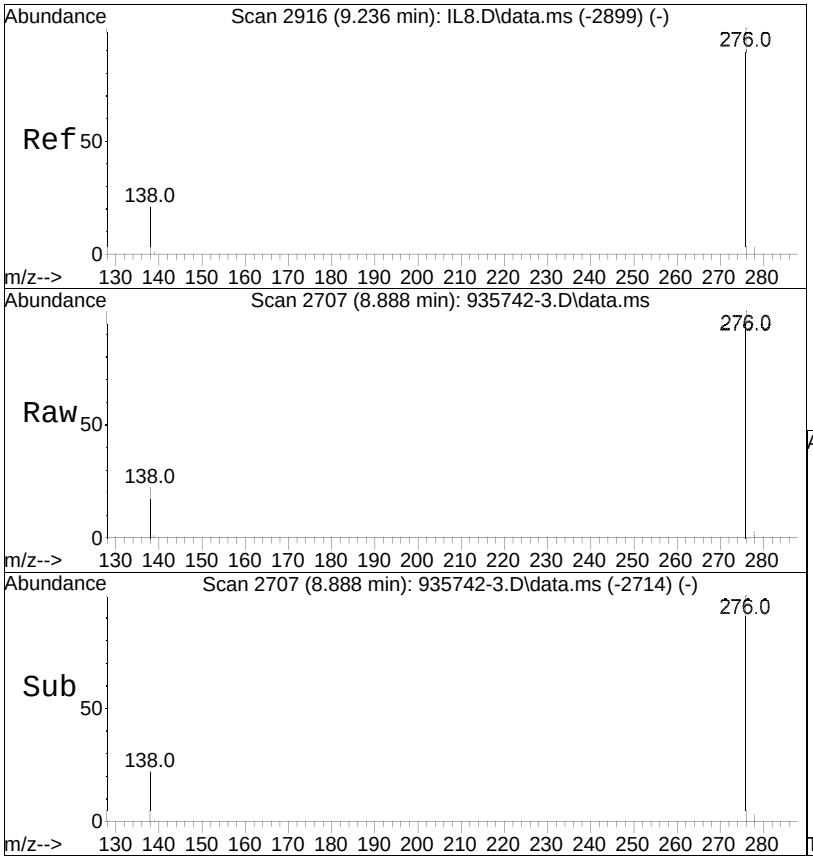


#41
Dibenzo[a,h]anthracene
Concen: 2369.89 ng/ml M2
RT: 8.593 min Scan# 2597
Delta R.T. -0.105 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:278 Resp: 218625

Ion	Ratio	Lower	Upper
278	100		
139	15.9	14.0	21.0

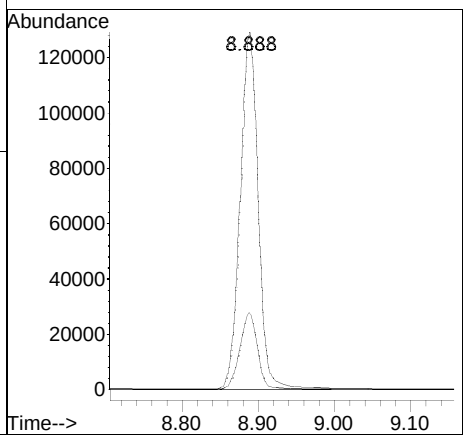




#42
Benzo[g,h,i]perylene
Concen: 2135.52 ng/ml M2
RT: 8.888 min Scan# 2707
Delta R.T. -0.099 min
Lab File: 935742-3.D
Acq: 19 Jun 2024 11:17 am

Tgt Ion:276 Resp: 209309

Ion	Ratio	Lower	Upper
276	100		
138	20.9	17.8	26.8

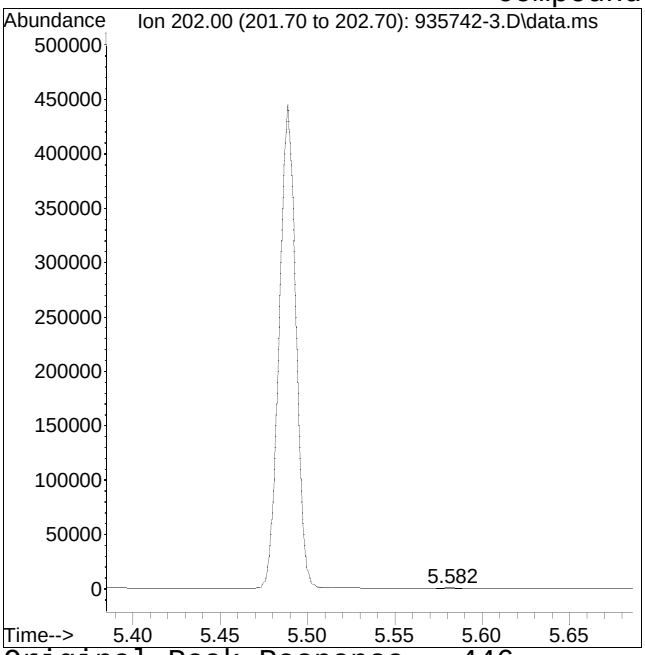


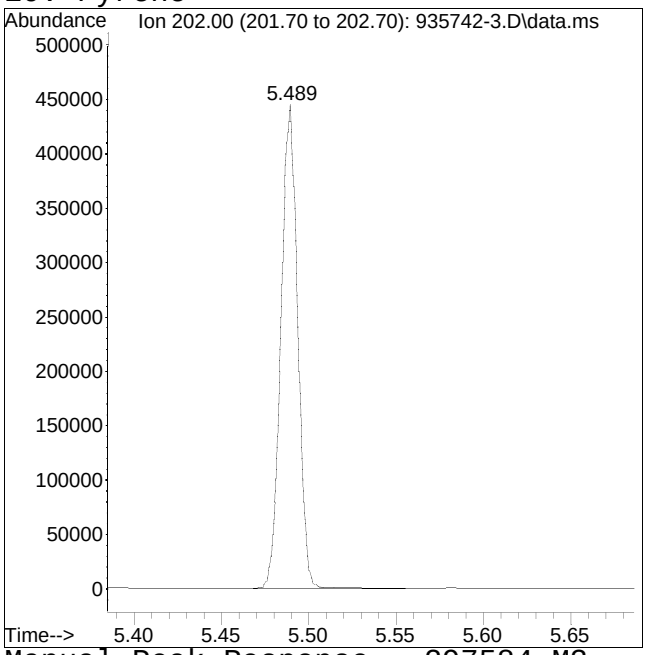
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-3.D
Date Inj'd : 6/19/2024 11:17 am
Sample : WG1935742-3,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:09 pm

Compound #29: Pyrene





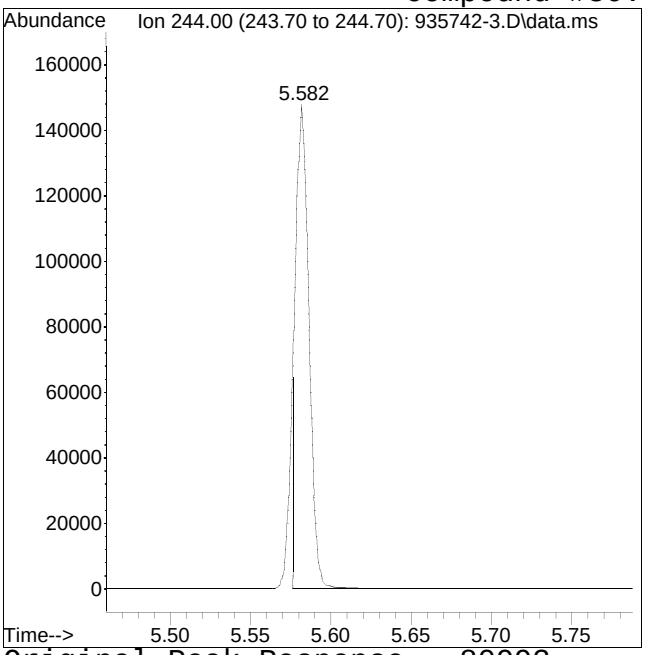
Original Peak Response = 446 Manual Peak Response = 297584 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

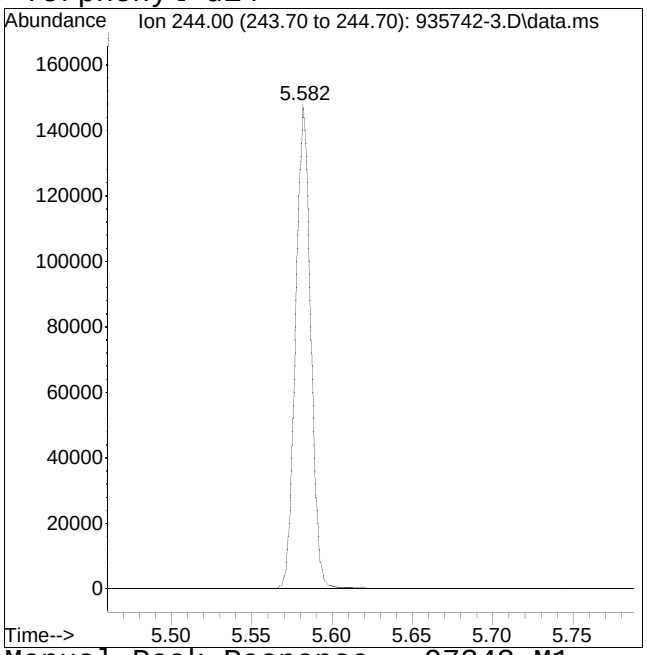
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 80993



Manual Peak Response = 97343 M1

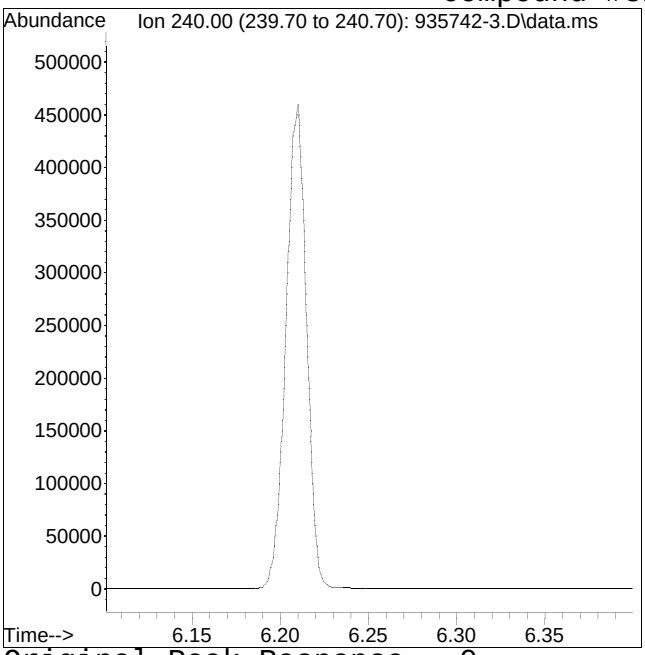
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

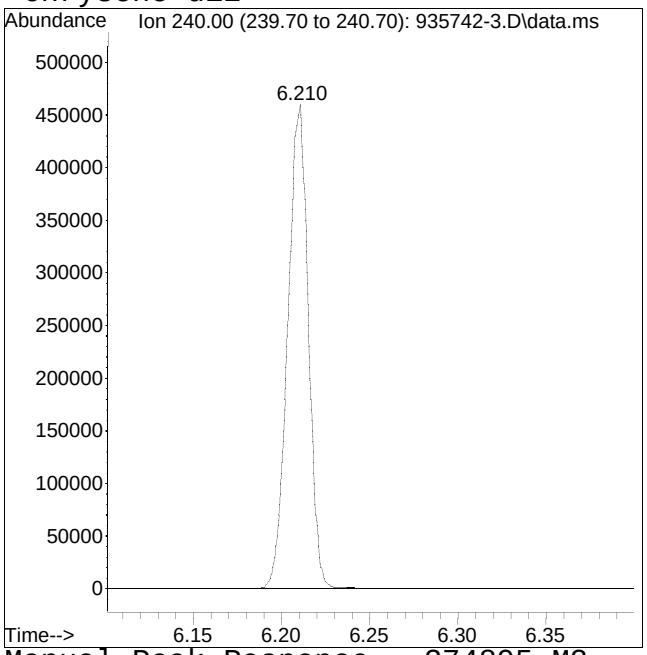
Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-3.D
Date Inj'd : 6/19/2024 11:17 am
Sample : WG1935742-3,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:09 pm

Compound #31: Chrysene-d12



Original Peak Response = 0



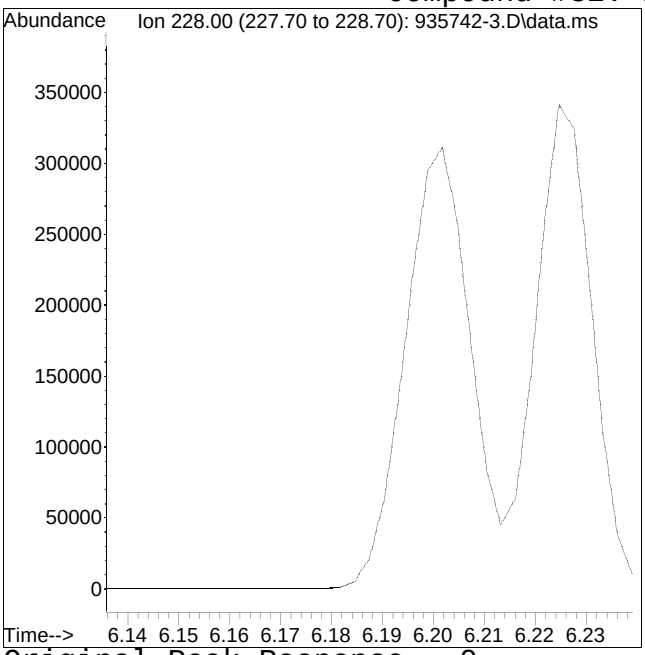
Manual Peak Response = 374895 M2

M2 = Peak not found by automatic integration algorithm.

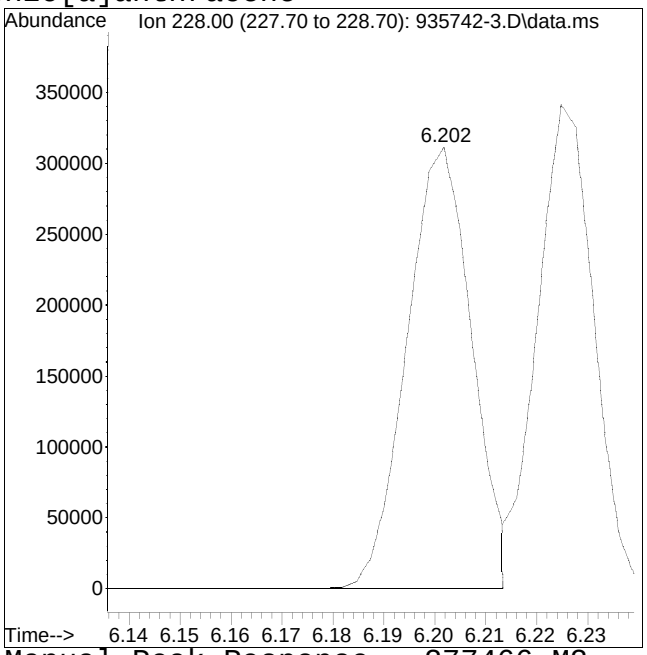
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 0



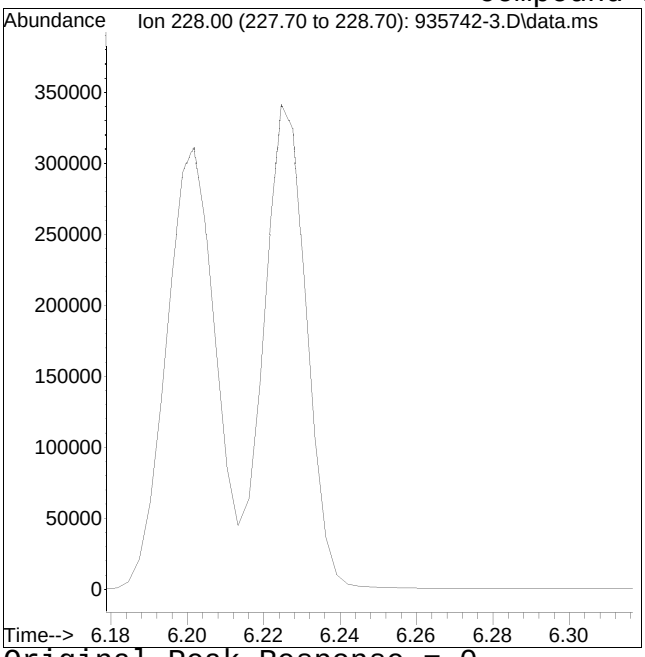
Manual Peak Response = 277466 M2

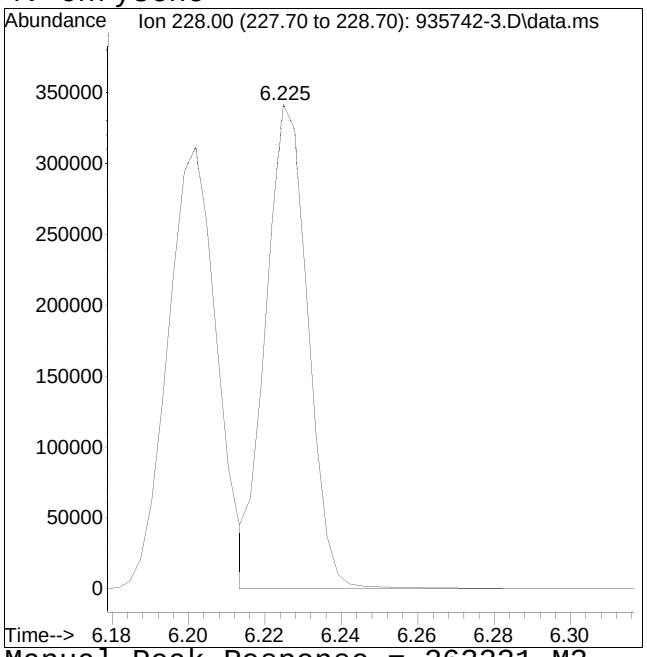
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #34: Chrysene



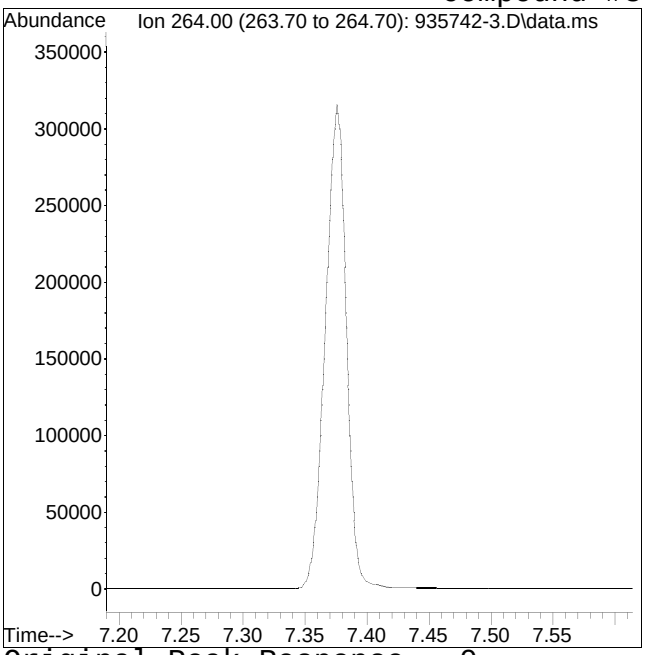


Original Peak Response = 0 Manual Peak Response = 263331 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

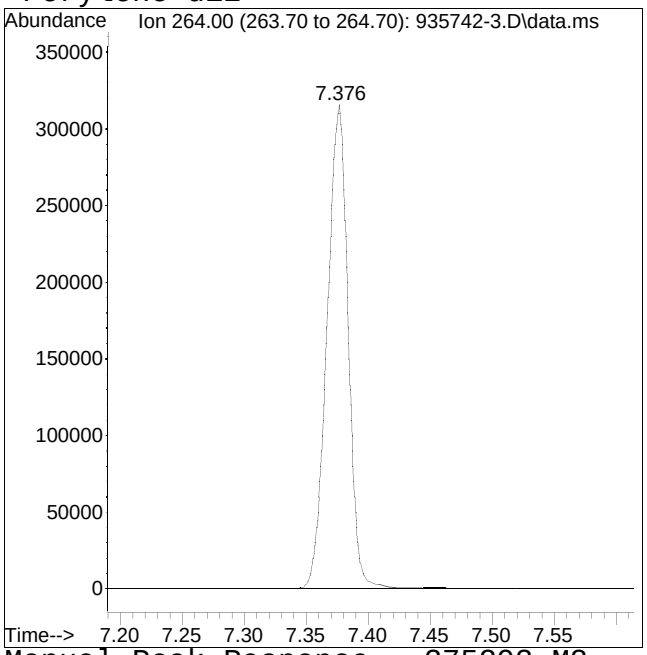
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #36: Perylene-d12



Original Peak Response = 0



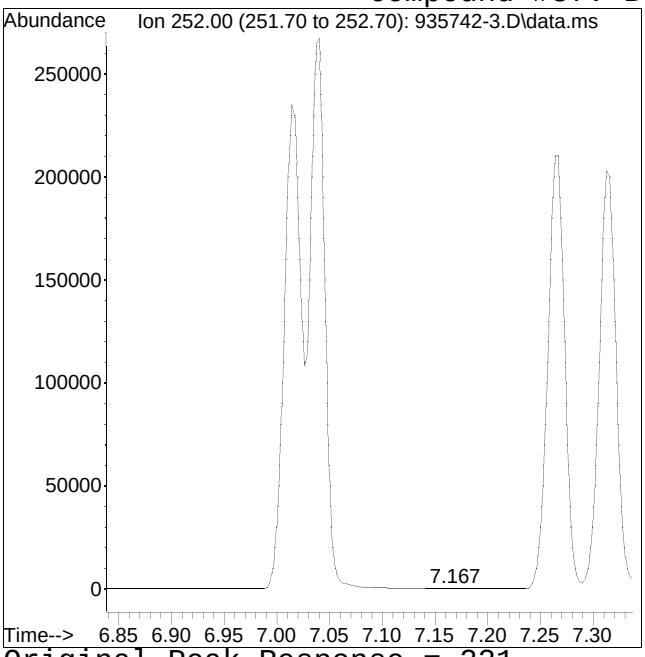
Manual Peak Response = 375293 M2

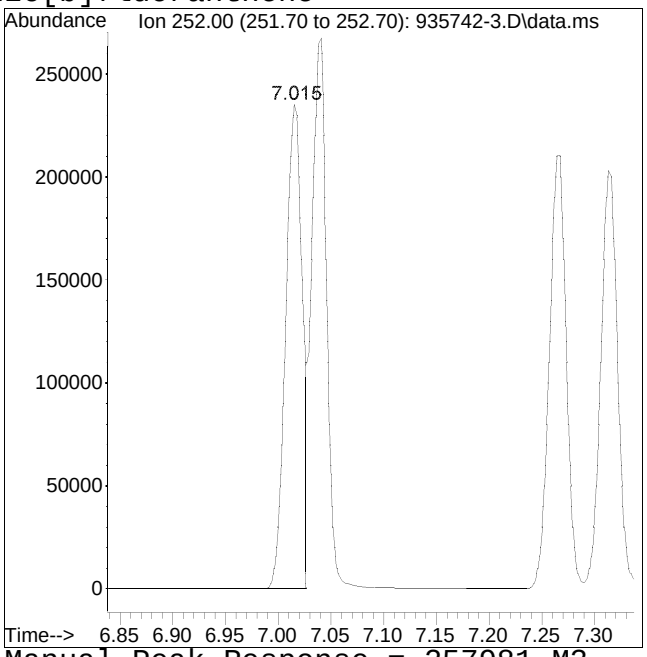
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #37: Benzo[b]fluoranthene





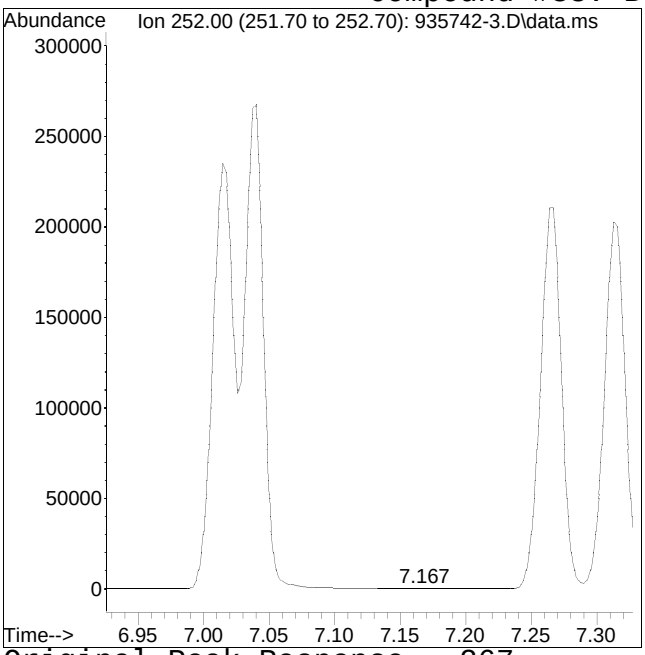
Original Peak Response = 221 Manual Peak Response = 257981 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

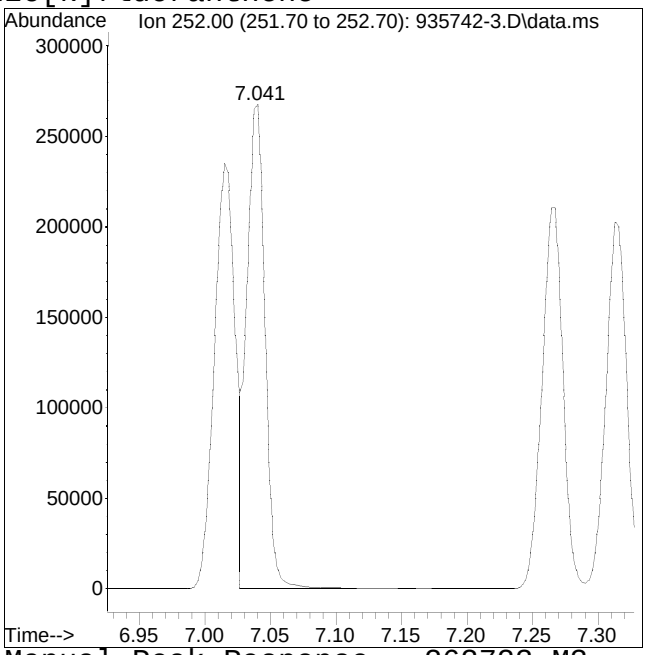
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 267



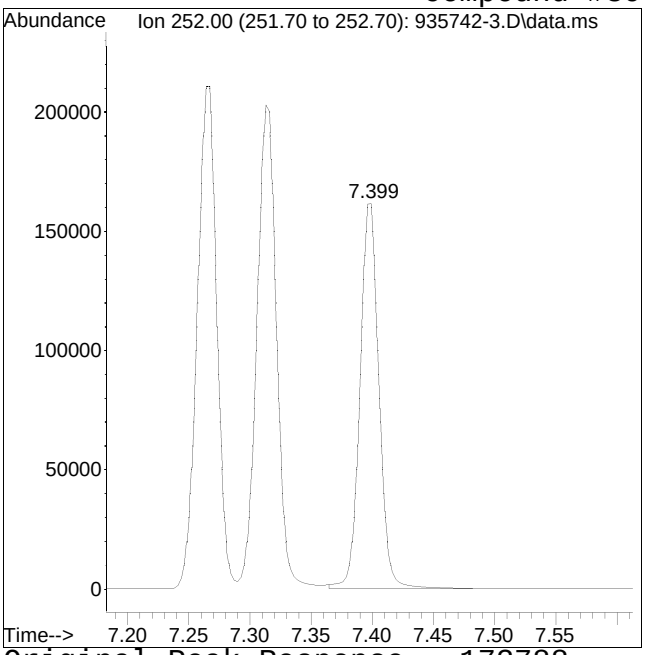
Manual Peak Response = 262723 M3

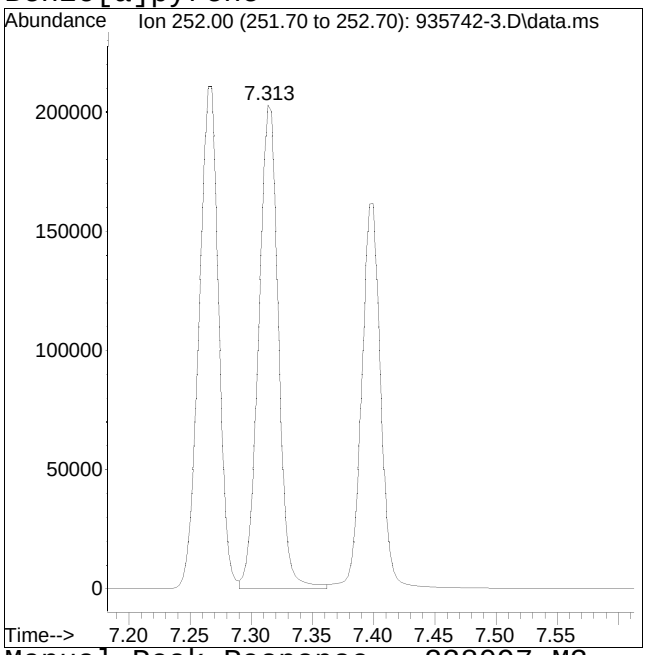
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #39: Benzo[a]pyrene





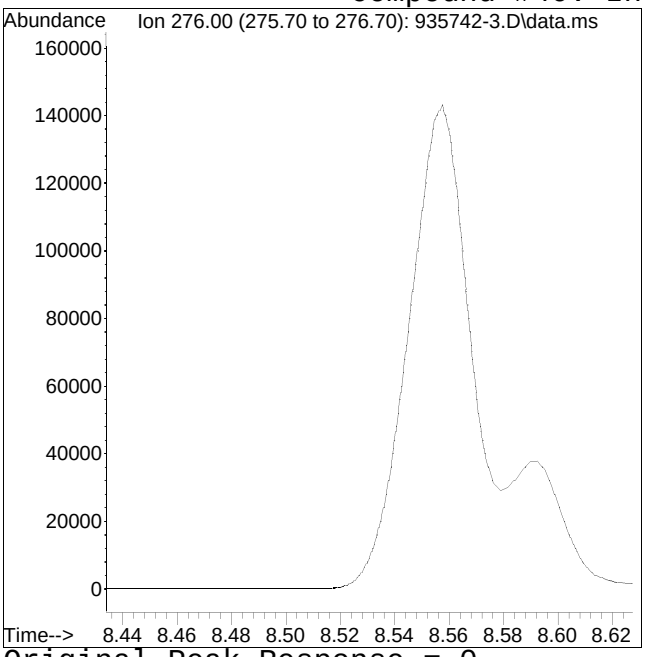
Original Peak Response = 173788 Manual Peak Response = 228097 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

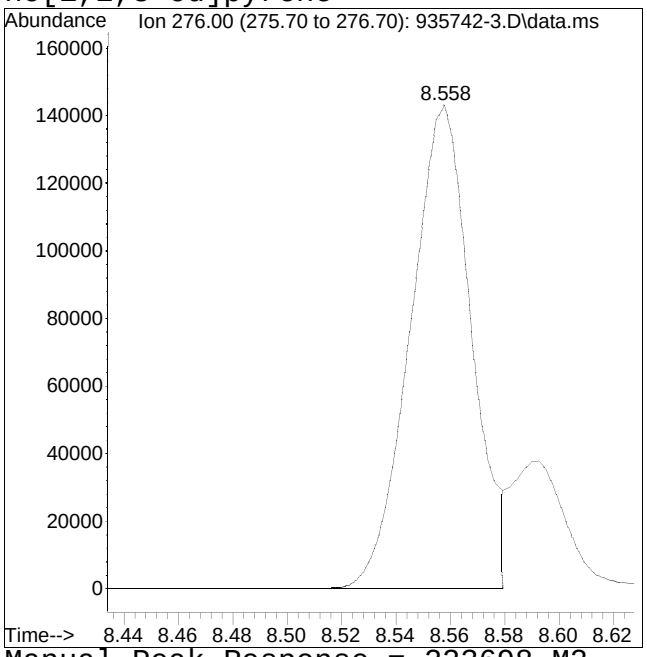
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 0



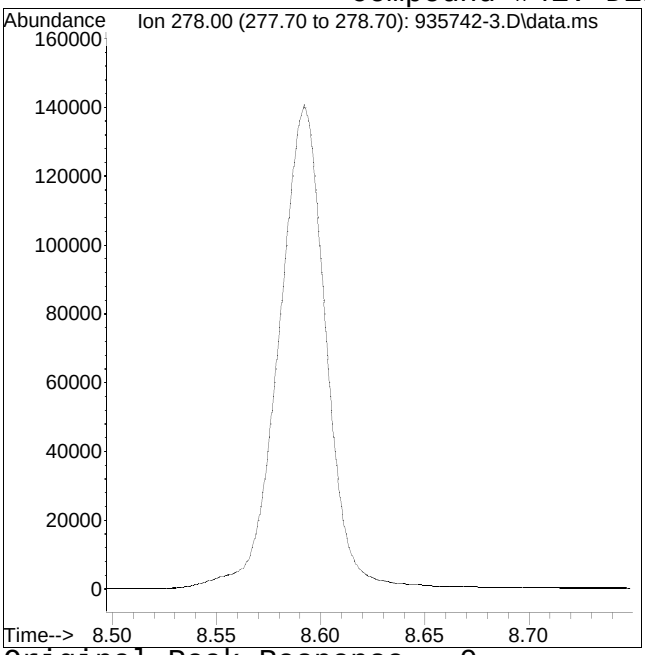
Manual Peak Response = 223698 M2

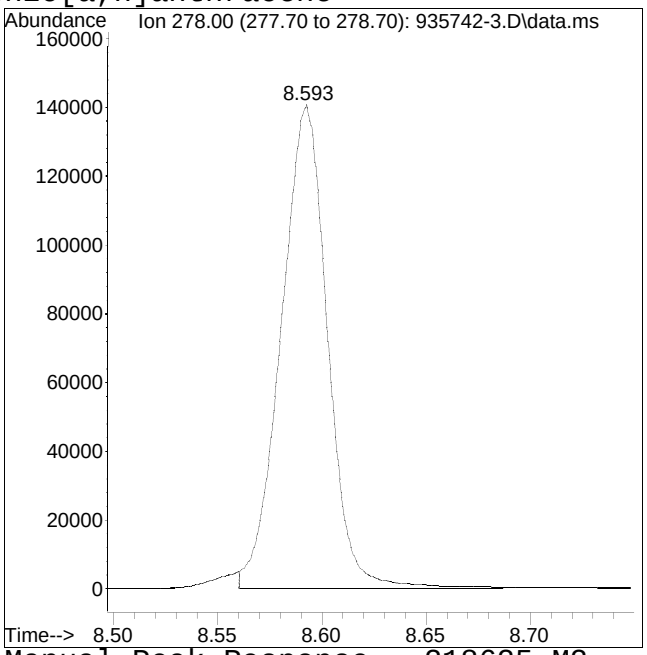
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQMethod : SIM-RVT_240521_sv120.M
Data File : 935742-3.D Operator : SV120:jjw
Date Inj'd : 6/19/2024 11:17 am Instrument : SV120
Sample : WG1935742-3,32,,jjw Quant Date : 6/19/2024 3:09 pm

Compound #41: Dibenzo[a,h]anthracene





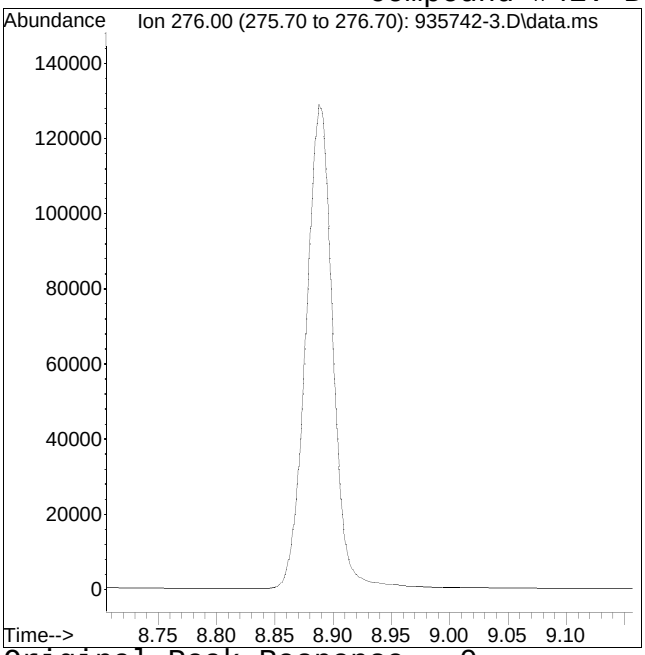
Original Peak Response = 0 Manual Peak Response = 218625 M2
M2 = Peak not found by automatic integration algorithm.

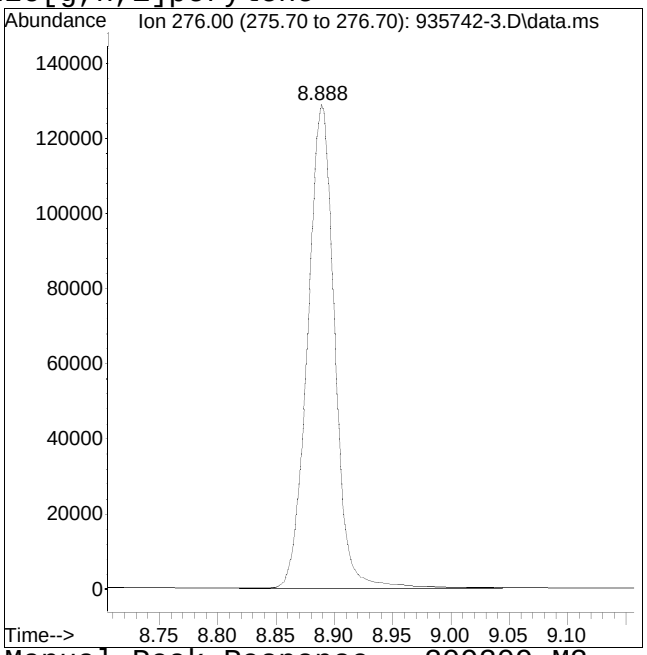
Manual Integration Report

Data Path : I:\8270SIM\sv120\240619RVTQ
Data File : 935742-3.D
Date Inj'd : 6/19/2024 11:17 am
Sample : WG1935742-3,32,,jjw

Method : SIM-RVT_240521_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 6/19/2024 3:09 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 0
Manual Peak Response = 209309 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-4.D
Acq On : 18 Jun 2024 12:13 pm
Operator : SV120:sbc
Sample : WG1934857-4,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 14:20:04 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.204	152	120308	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery	= 115.58%		
8) Naphthalene-d8	2.863	136	461155	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery	= 120.40%		
17) Acenaphthene-d10	3.837	164	262475	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery	= 119.10%		
22) Phenanthrene-d10	4.674	188	568038	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery	= 121.19%		
31) Chrysene-d12	6.211	240	488648	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery	= 114.29%		
36) Perylene-d12	7.377	264	501020	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery	= 108.87%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	11518	322.119	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 16.11%		
3) Phenol-d6	2.021	99	15457	359.620	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 17.98%		
7) Nitrobenzene-d5	2.483	82	19343	505.103	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 50.51%		
13) 2-Fluorobiphenyl	3.459	172	45756	466.632	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 46.66%		
21) 2,4,6-Tribromophenol	4.279	330	8232	464.193	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 23.21%		
30) 4-Terphenyl-d14	5.582	244	70084	606.384	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 30.32%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	35745	940.954	ng/ml	97
6) Hexachloroethane	2.462	117	10965	637.037	ng/ml	98
9) Naphthalene	2.874	128	102054	782.916	ng/ml	99
10) Hexachlorobutadiene	2.946	225	16744	671.501	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	70626	868.426	ng/ml	99
14) 2-Chloronaphthalene	3.523	162	75636	909.949	ng/ml	93
16) Acenaphthylene	3.756	152	125242	1023.803	ng/ml	100
18) Acenaphthene	3.853	153	85728	951.916	ng/ml	95
20) Fluorene	4.144	166	99618	1026.182	ng/ml	100
24) Hexachlorobenzene	4.460	284	40235	983.052	ng/ml	98

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-4.D
Acq On : 18 Jun 2024 12:13 pm
Operator : SV120:sbc
Sample : WG1934857-4,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 14:20:04 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.571	266	8219	377.826	ng/ml	98
26) Phenanthrene	4.685	178	159180	996.629	ng/ml	100
27) Anthracene	4.713	178	158960	1007.291	ng/ml	100
28) Fluoranthene	5.360	202	192615	1111.960	ng/ml	100
29) Pyrene	5.490	202	200052	1113.753	ng/ml	100
32) Benzo[a]anthracene	6.202	228	186308	993.457	ng/ml	100
34) Chrysene	6.225	228	175477	990.700	ng/ml	98
37) Benzo[b]fluoranthene	7.012	252	171550	1035.513	ng/ml	97
38) Benzo[k]fluoranthene	7.038	252	178813	1133.750	ng/ml	97
39) Benzo[a]pyrene	7.314	252	155029	1135.211	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.555	276	152645	1186.848	ng/ml	98
41) Dibenzo[a,h]anthracene	8.590	278	154889M6	1257.661	ng/ml	
42) Benzo[g,h,i]perylene	8.891	276	147240	1125.272	ng/ml	98

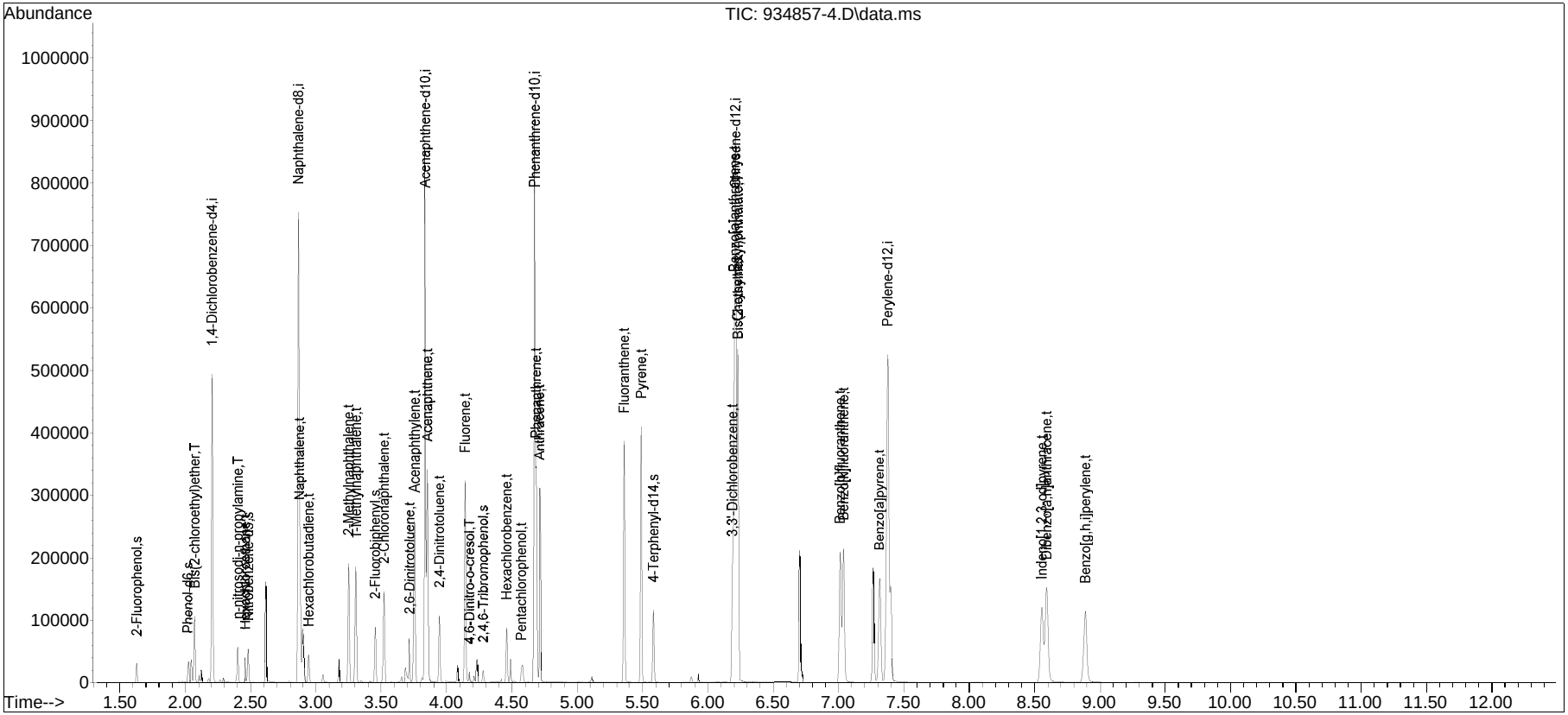
(#) = qualifier out of range (m) = manual integration (+) = signals summed

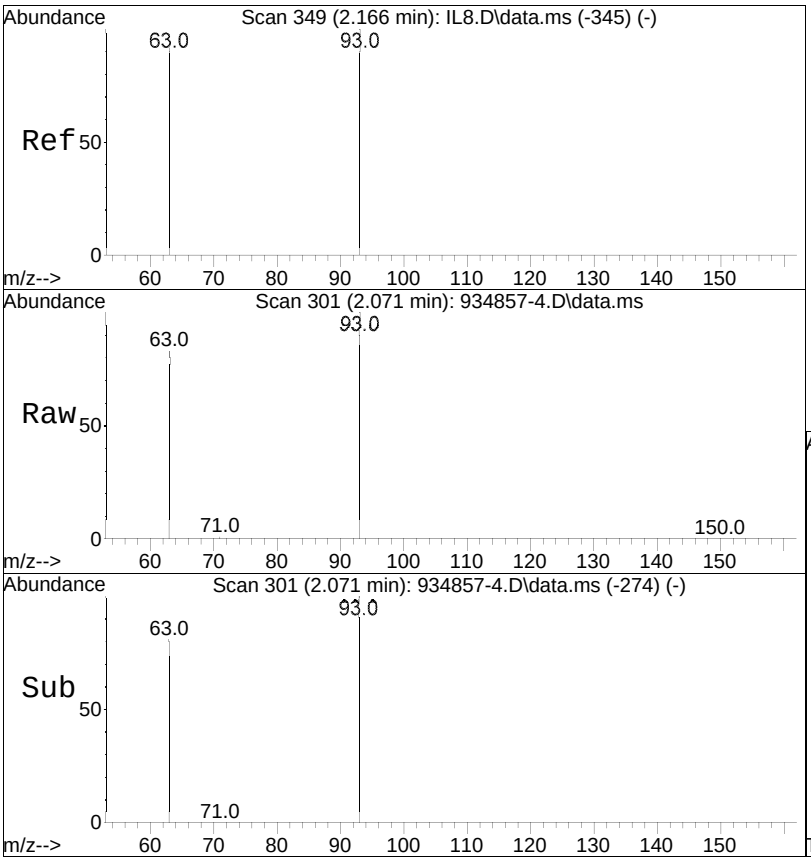
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-4.D
Acq On : 18 Jun 2024 12:13 pm
Operator : SV120:sbc
Sample : WG1934857-4,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 14:20:04 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•

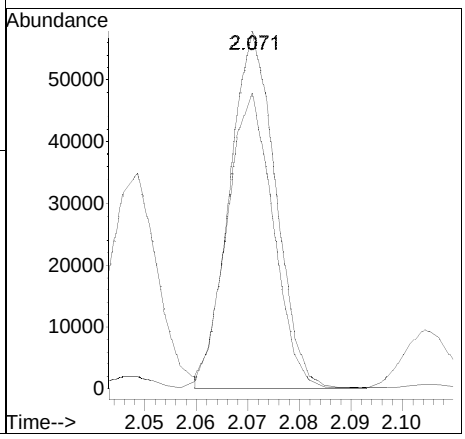


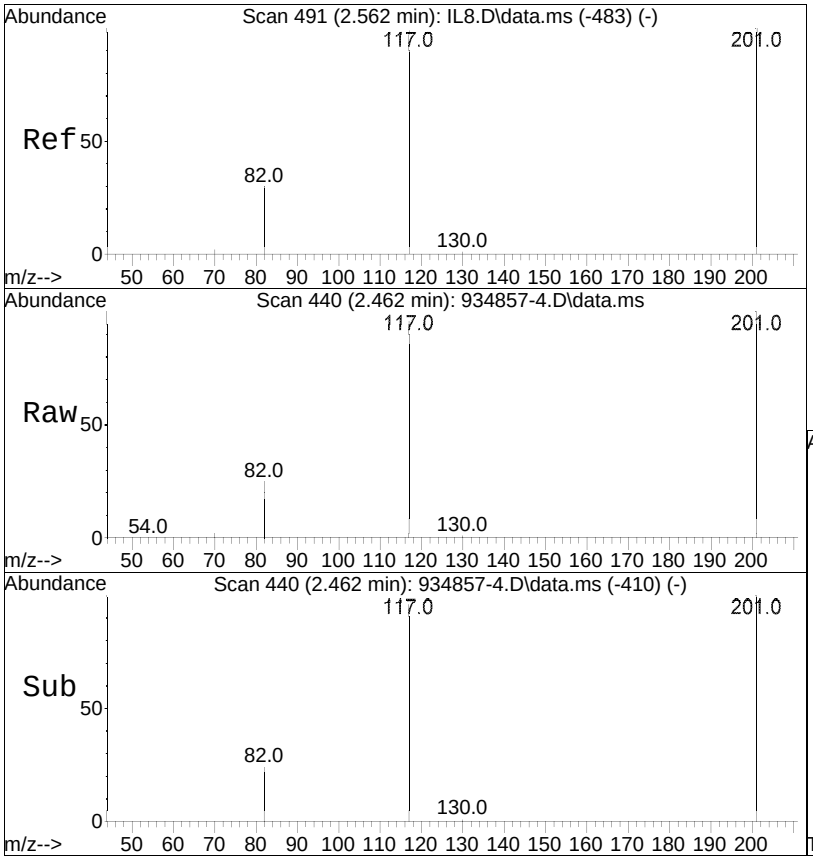


#4
Bis(2-chloroethyl)ether
Concen: 940.95 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. -0.006 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion: 93 Resp: 35745

Ion	Ratio	Lower	Upper
93	100		
63	83.1	68.6	102.8

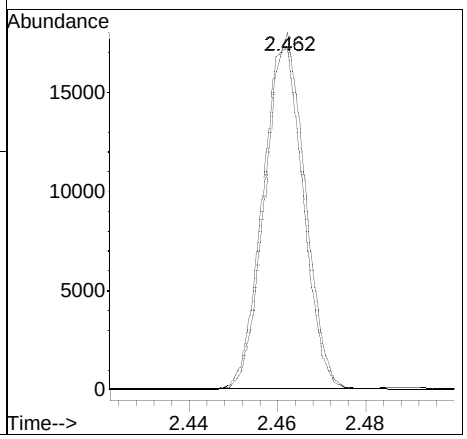


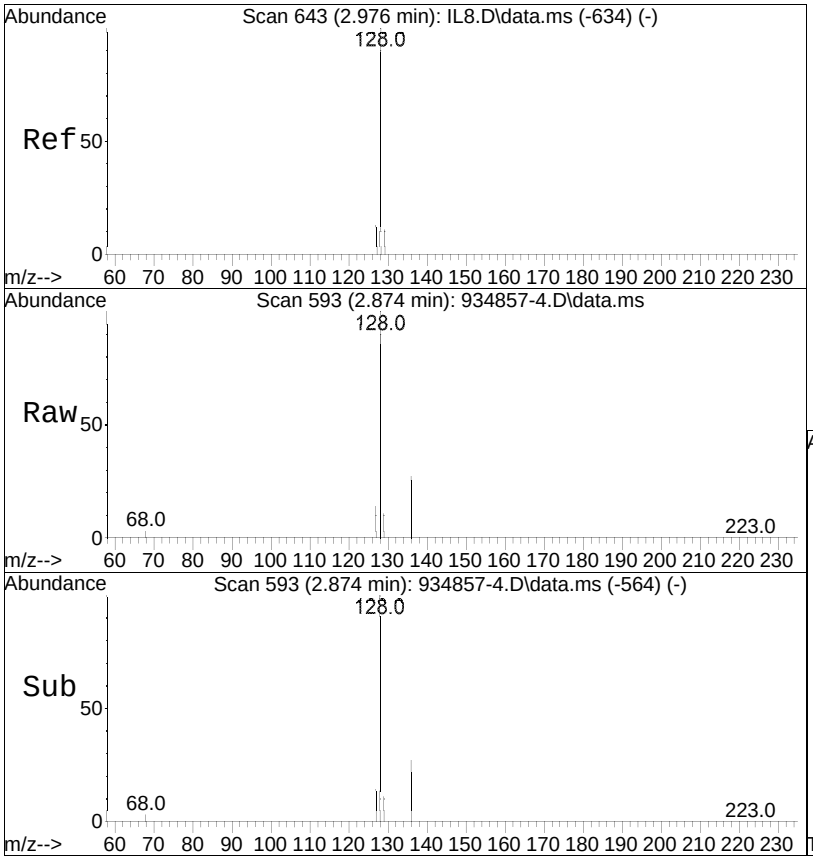


#6
Hexachloroethane
Concen: 637.04 ng/ml
RT: 2.462 min Scan# 440
Delta R.T. -0.003 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:117 Resp: 10965

Ion	Ratio	Lower	Upper
117	100		
201	101.3	79.4	119.2

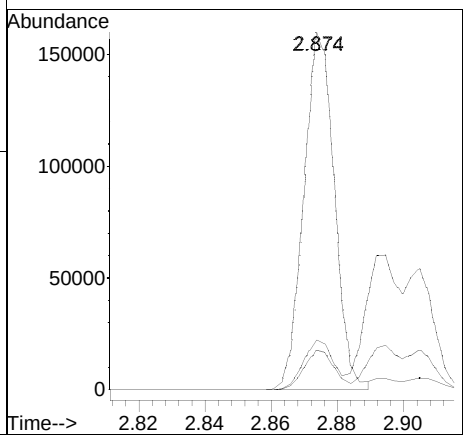


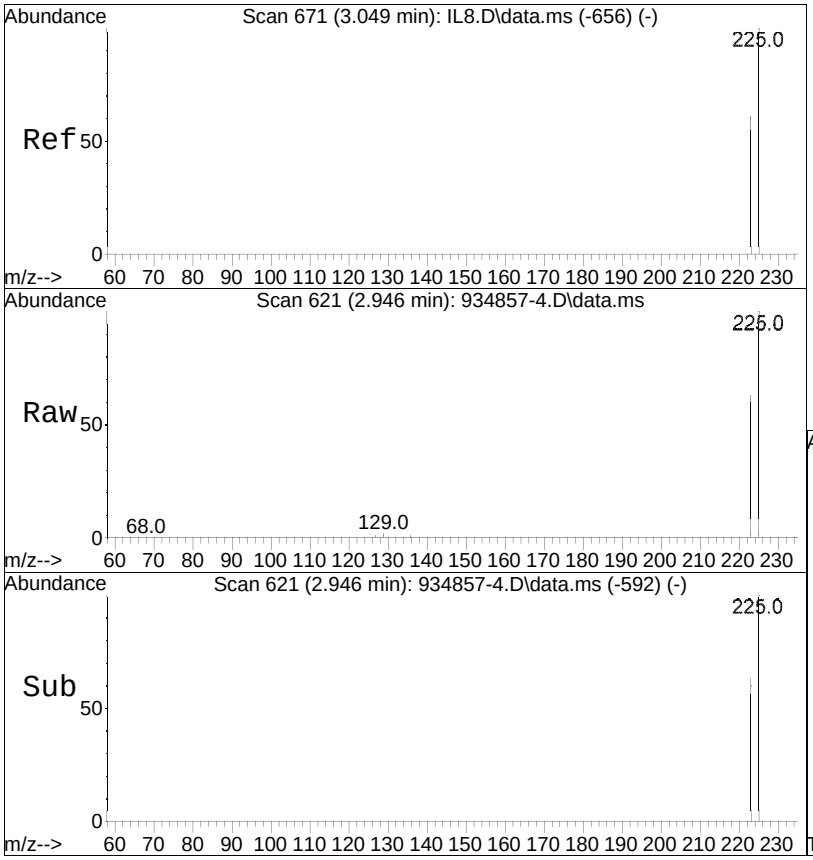


#9
Naphthalene
Concen: 782.92 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:128 Resp: 102054

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.6	11.3	16.9

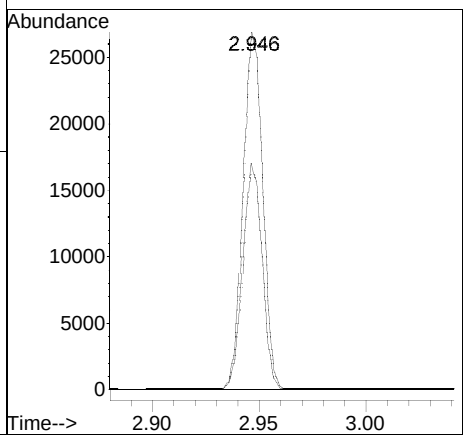


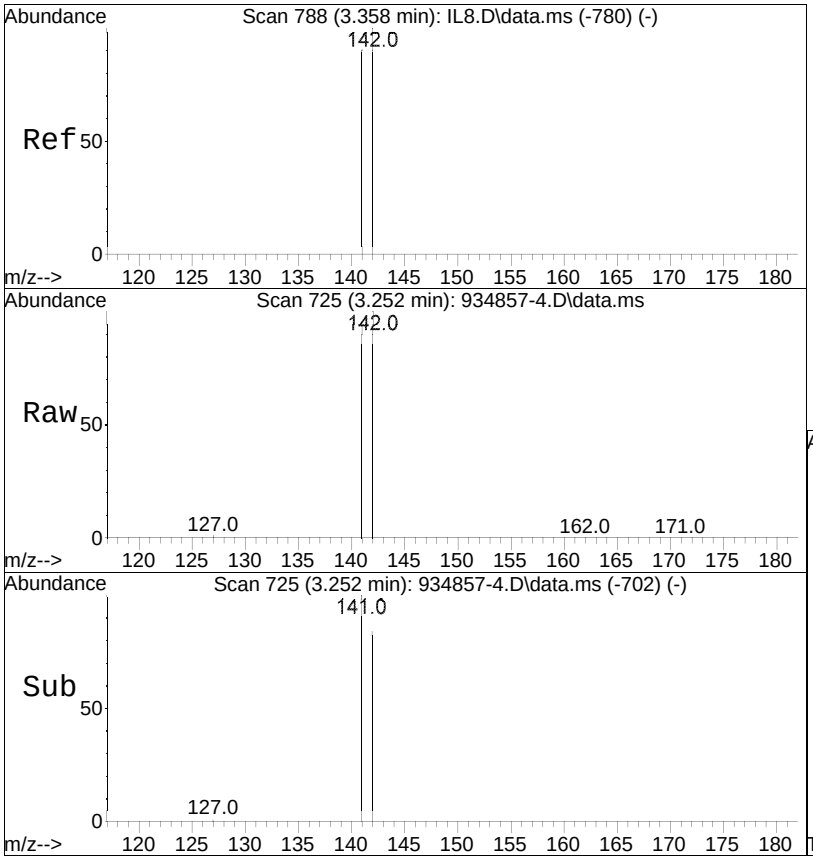


#10
Hexachlorobutadiene
Concen: 671.50 ng/ml
RT: 2.946 min Scan# 621
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:225 Resp: 16744

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

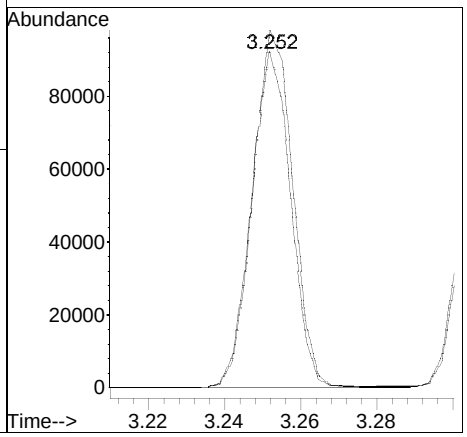


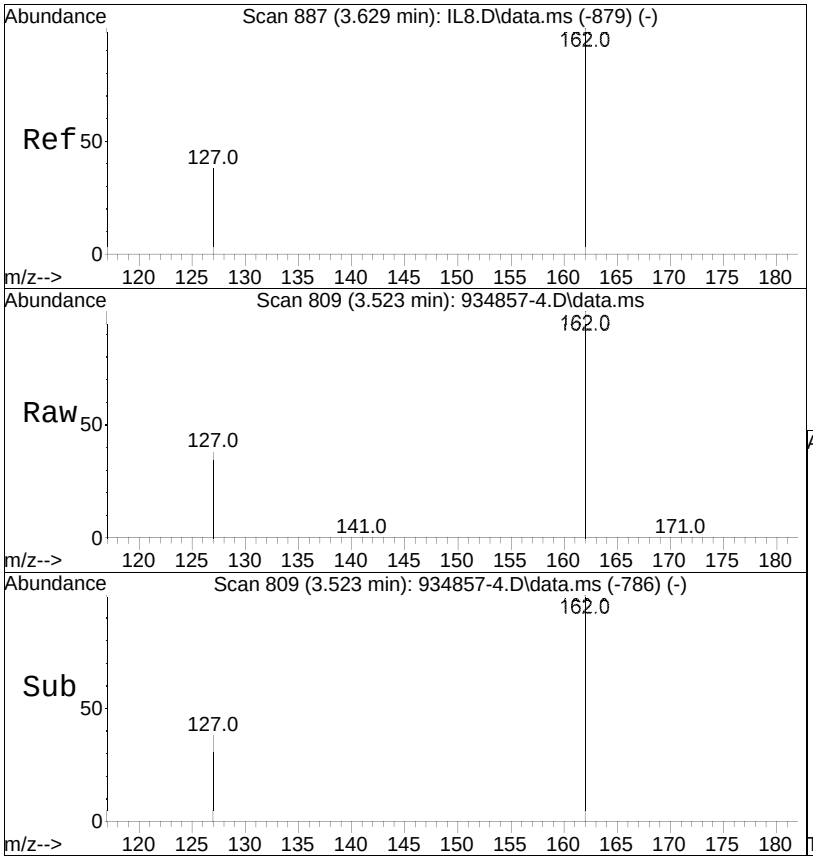


#11
2-Methylnaphthalene
Concen: 868.43 ng/ml
RT: 3.252 min Scan# 725
Delta R.T. -0.007 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:142 Resp: 70626

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.8	110.6

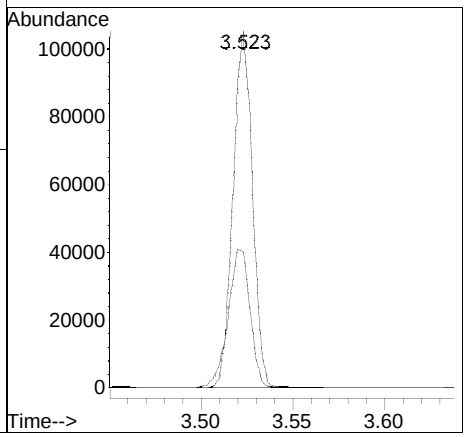


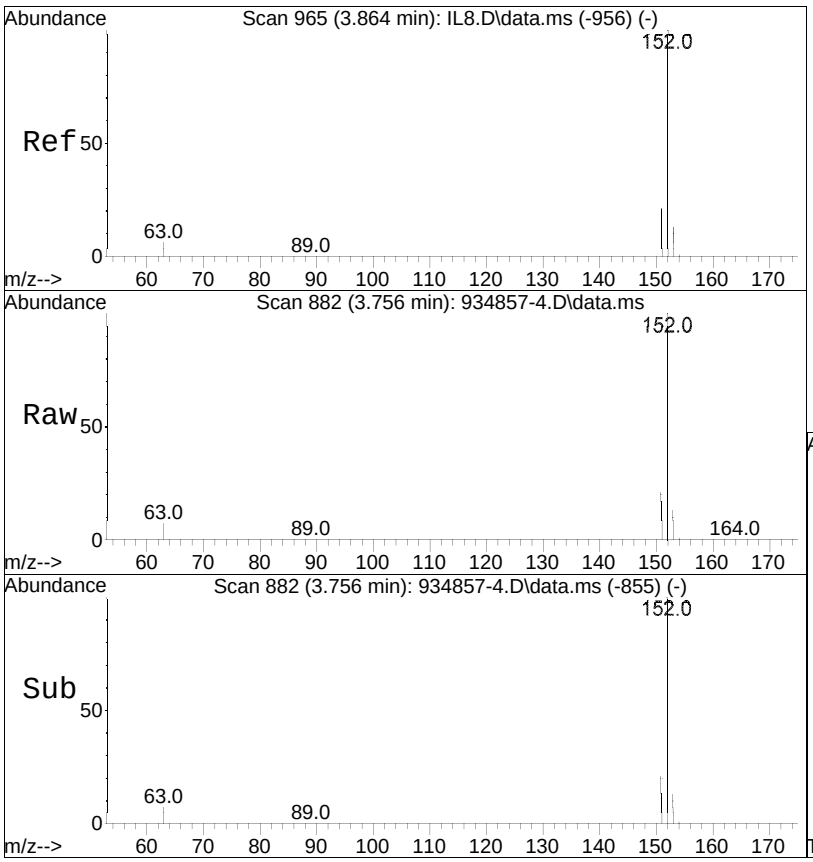


#14
2-Chloronaphthalene
Concen: 909.95 ng/ml
RT: 3.523 min Scan# 809
Delta R.T. -0.006 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:162 Resp: 75636

Ion	Ratio	Lower	Upper
162	100		
127	44.2	32.0	48.0

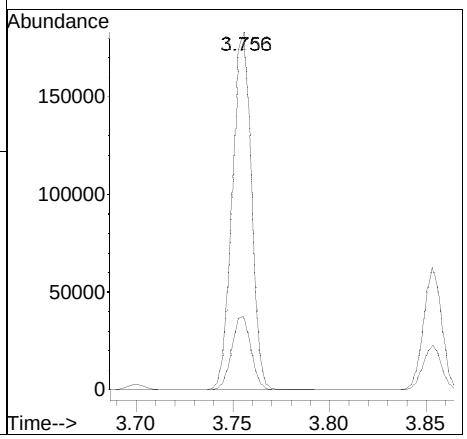


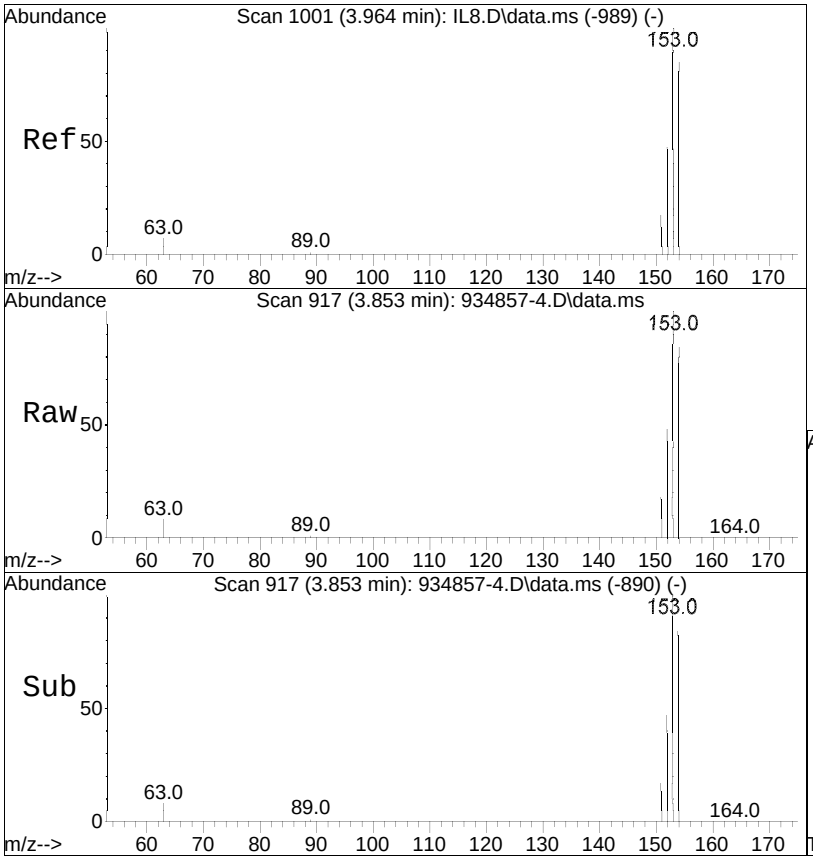


#16
Acenaphthylene
Concen: 1023.80 ng/ml
RT: 3.756 min Scan# 882
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:152 Resp: 125242

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7

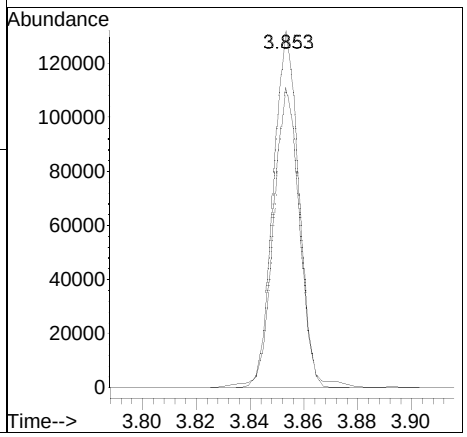


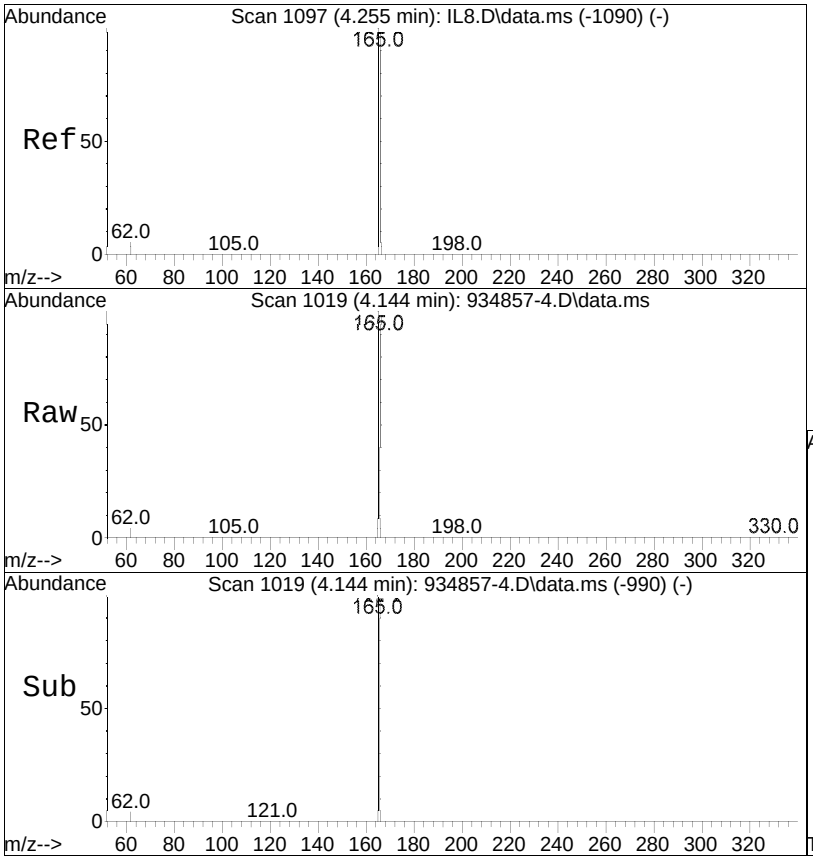


#18
Acenaphthene
Concen: 951.92 ng/ml
RT: 3.853 min Scan# 917
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:153 Resp: 85728

Ion	Ratio	Lower	Upper
153	100		
154	87.2	73.4	110.2

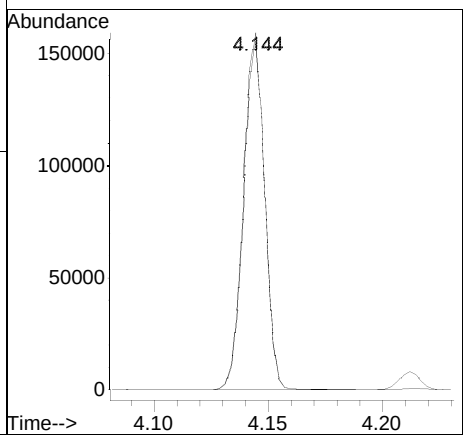


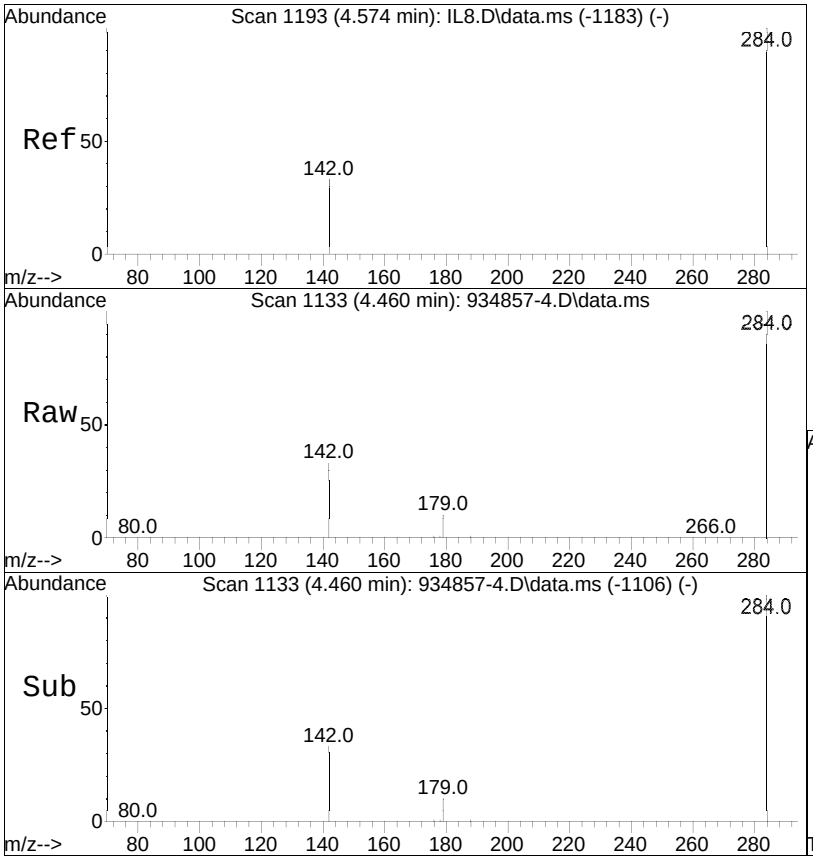


#20
Fluorene
Concen: 1026.18 ng/ml
RT: 4.144 min Scan# 1019
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:166 Resp: 99618

Ion	Ratio	Lower	Upper
166	100		
165	102.5	81.9	122.9

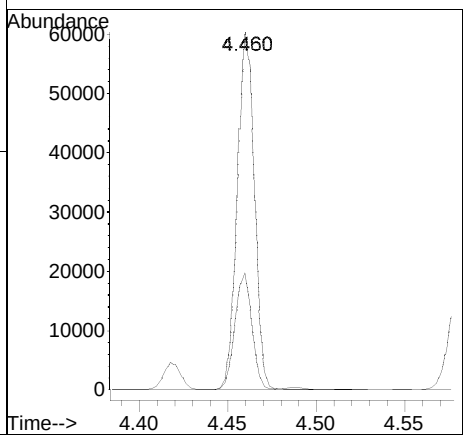


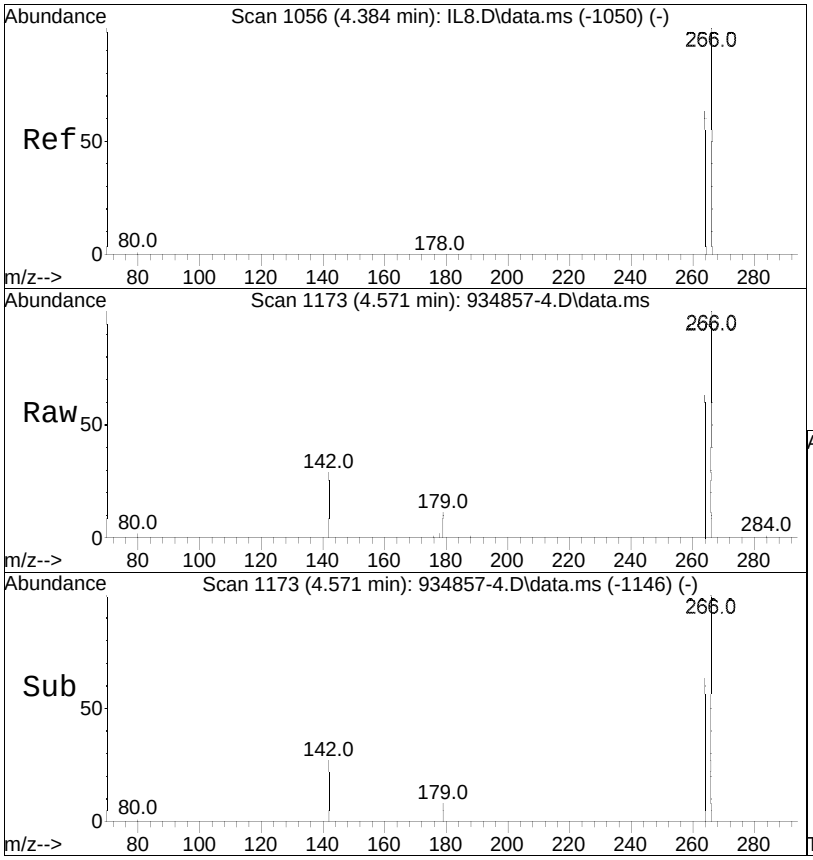


#24
Hexachlorobenzene
Concen: 983.05 ng/ml
RT: 4.460 min Scan# 1133
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:284 Resp: 40235

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.8	40.2

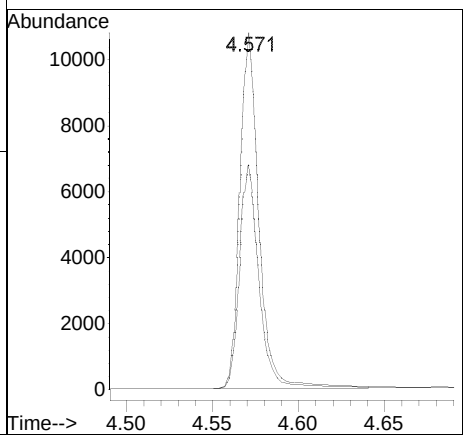


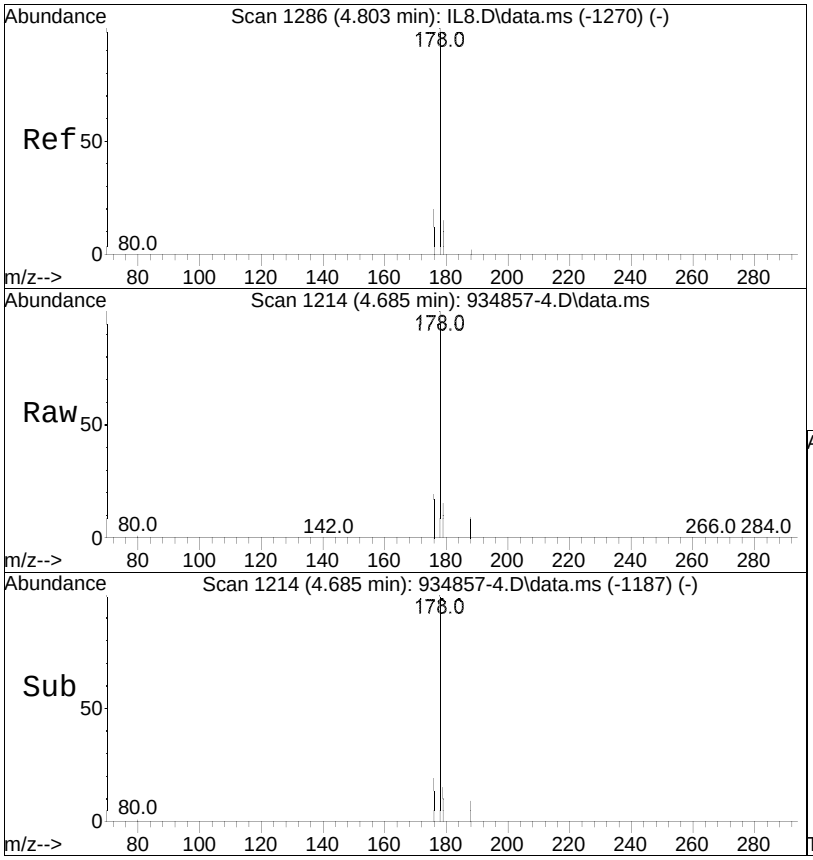


#25
Pentachlorophenol
Concen: 377.83 ng/ml
RT: 4.571 min Scan# 1173
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:266 Resp: 8219

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.2	75.2

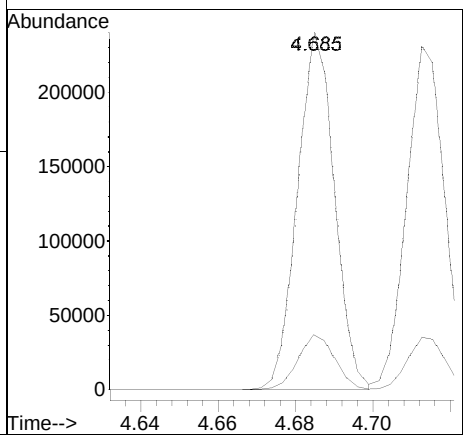


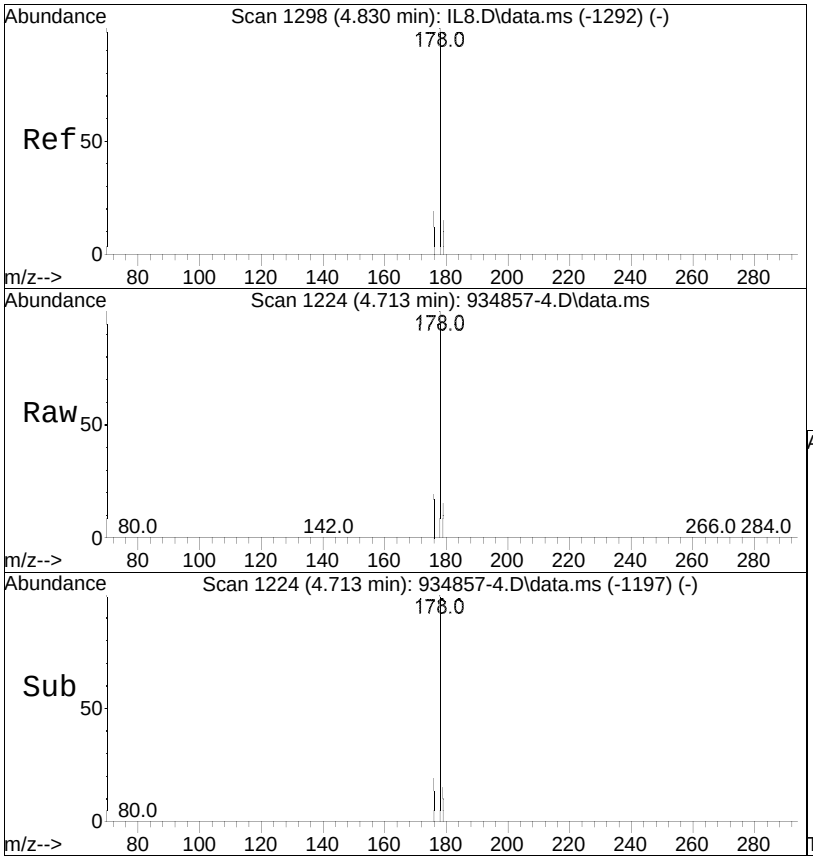


#26
Phenanthrene
Concen: 996.63 ng/ml
RT: 4.685 min Scan# 1214
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:178 Resp: 159180

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

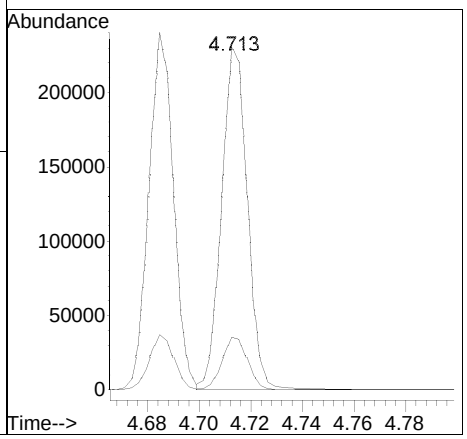


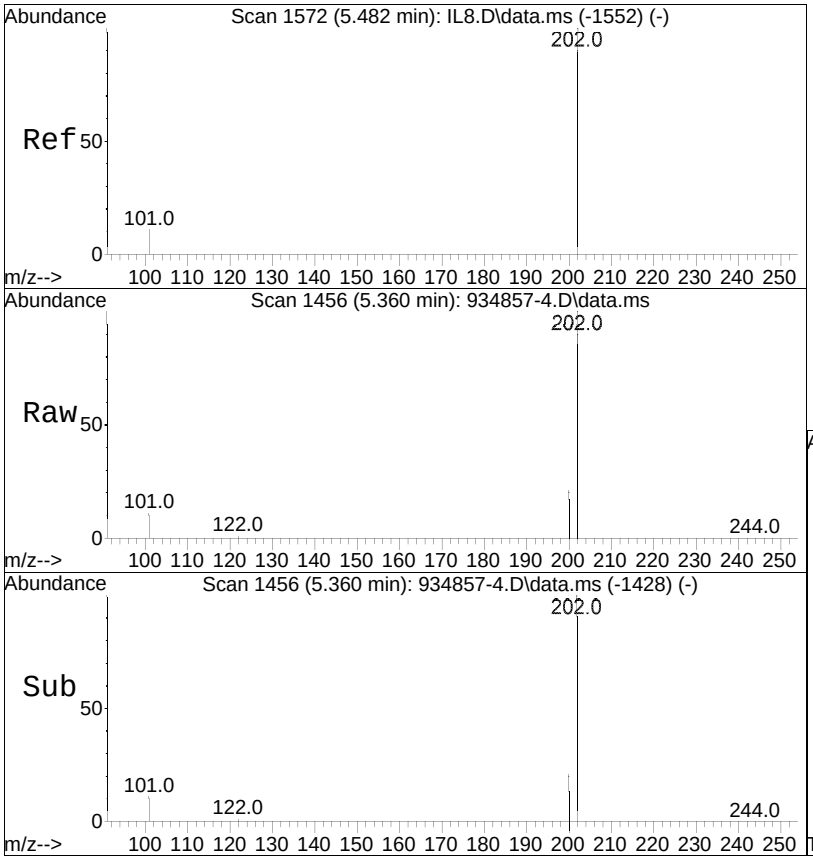


#27
Anthracene
Concen: 1007.29 ng/ml
RT: 4.713 min Scan# 1224
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:178 Resp: 158960

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

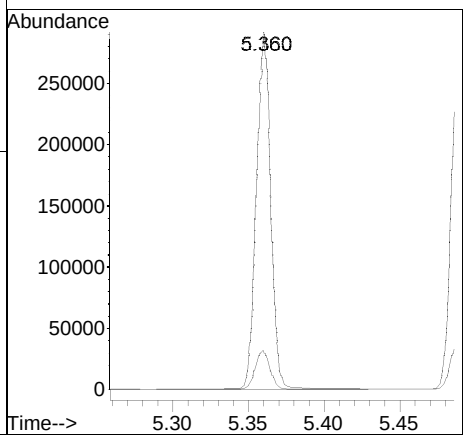


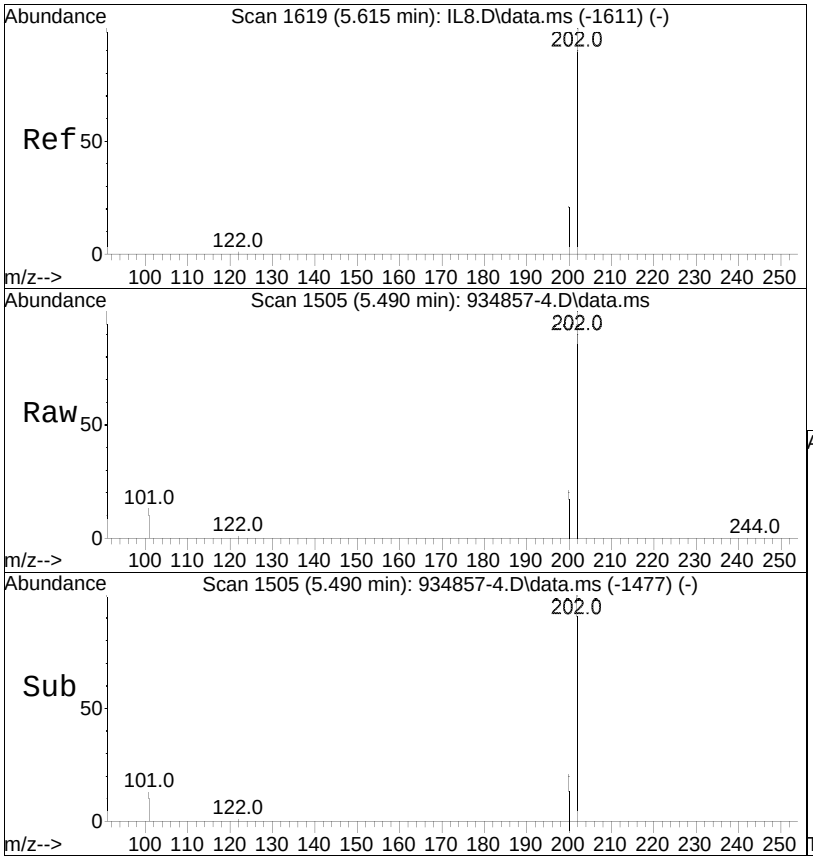


#28
Fluoranthene
Concen: 1111.96 ng/ml
RT: 5.360 min Scan# 1456
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:202 Resp: 192615

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6

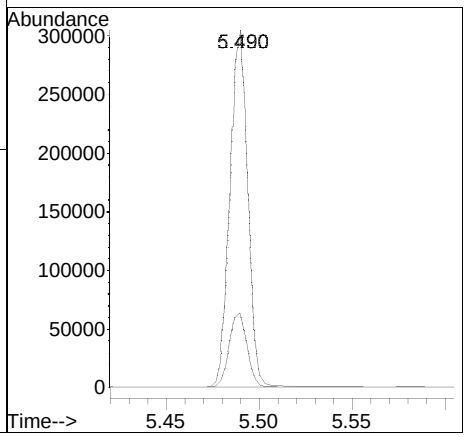


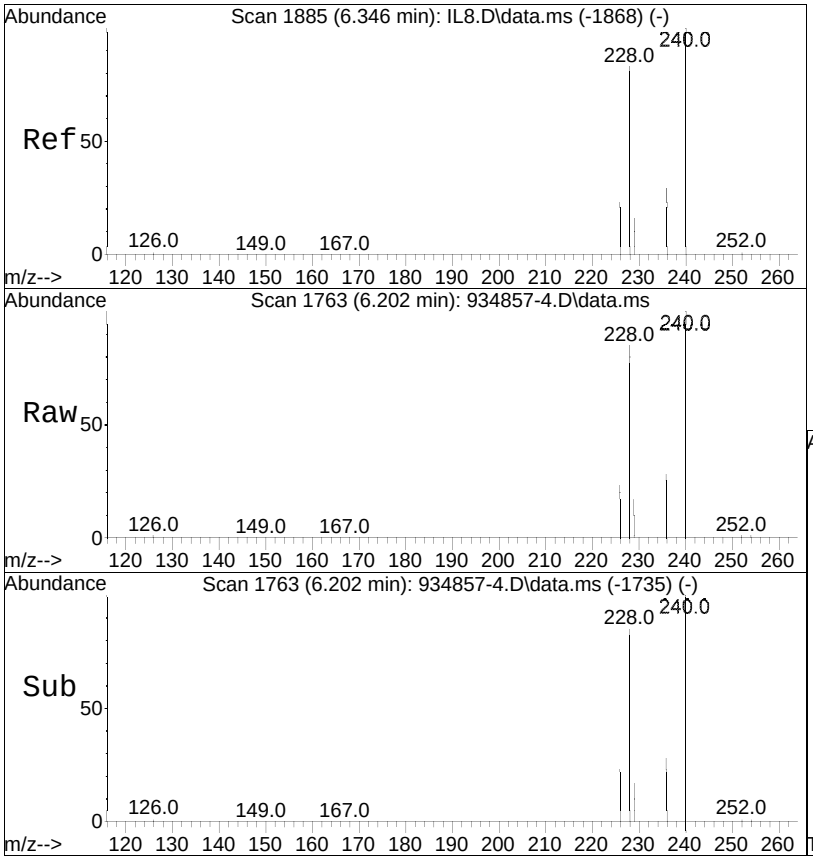


#29
Pyrene
Concen: 1113.75 ng/ml
RT: 5.490 min Scan# 1505
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:202 Resp: 200052

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8

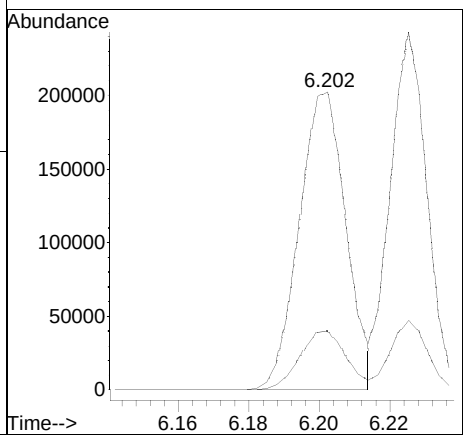


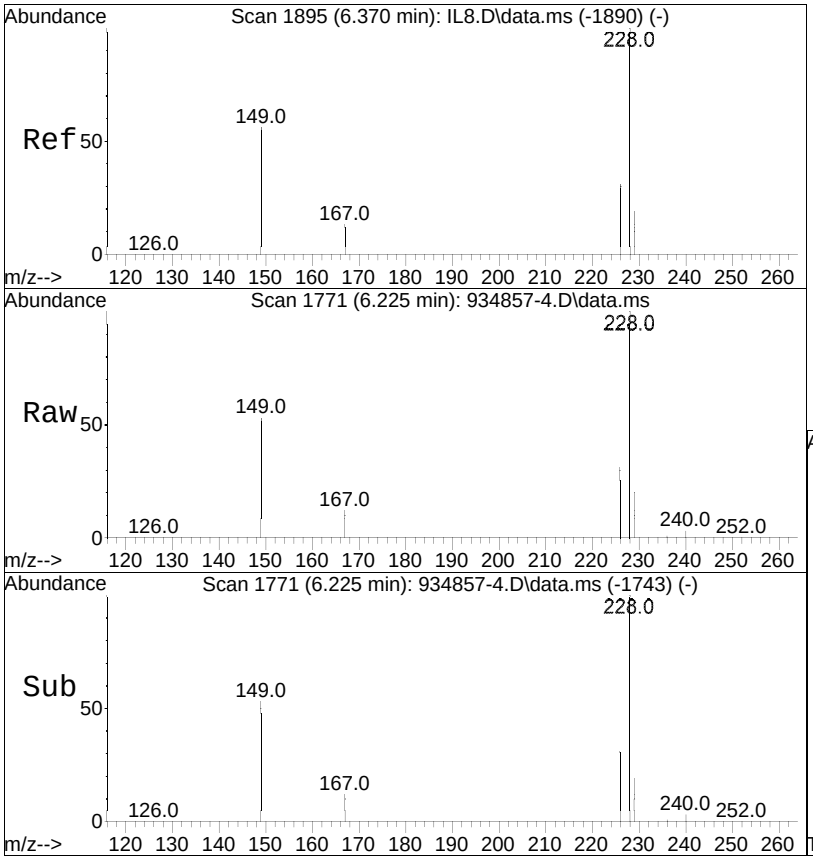


#32
Benzo[a]anthracene
Concen: 993.46 ng/ml
RT: 6.202 min Scan# 1763
Delta R.T. 0.000 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:228 Resp: 186308

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.7	23.5

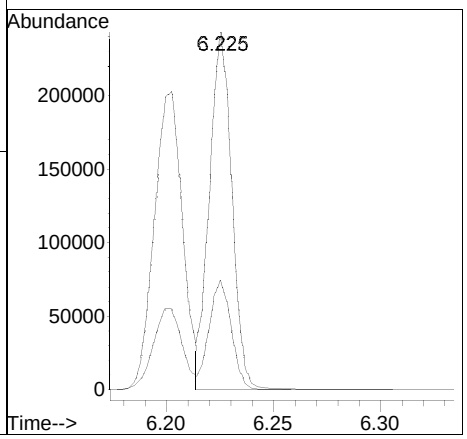


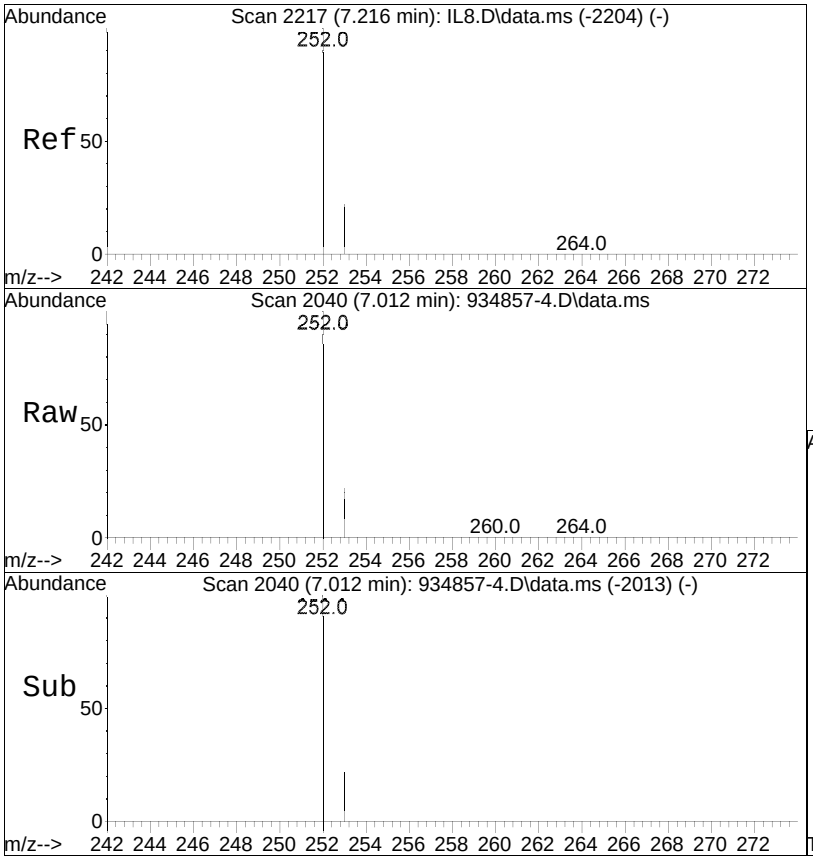


#34
Chrysene
Concen: 990.70 ng/ml
RT: 6.225 min Scan# 1771
Delta R.T. 0.000 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:228 Resp: 175477

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.1	37.7

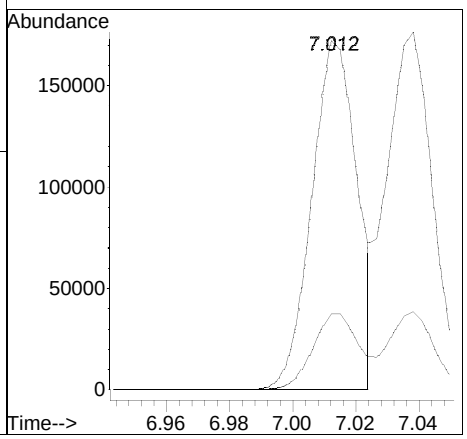


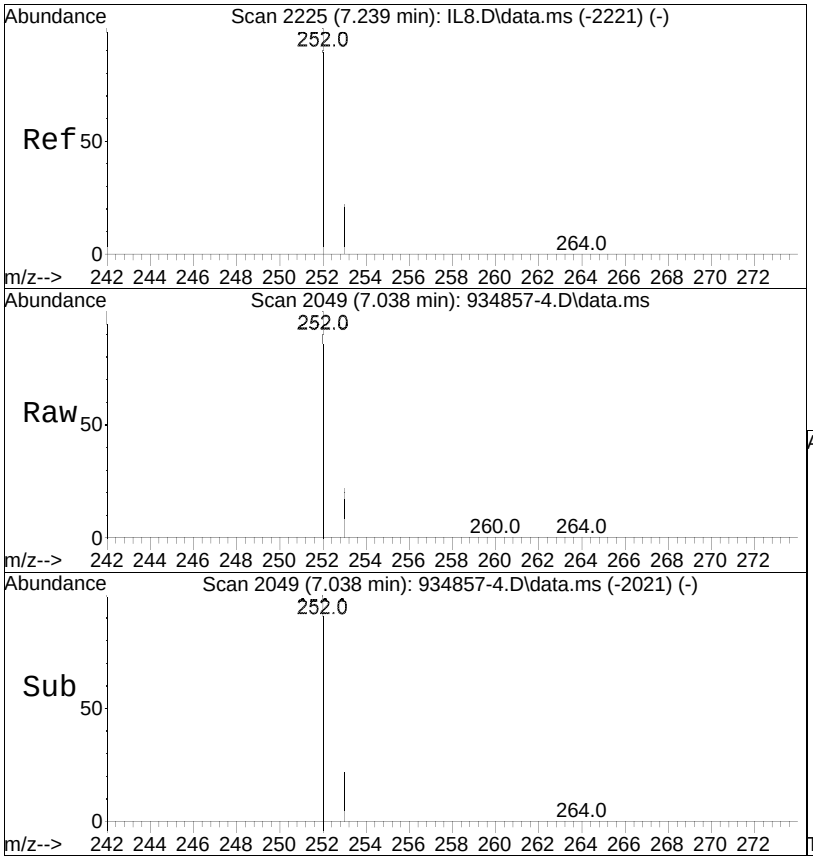


#37
Benzo[b]fluoranthene
Concen: 1035.51 ng/ml
RT: 7.012 min Scan# 2040
Delta R.T. -0.002 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:252 Resp: 171550

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9

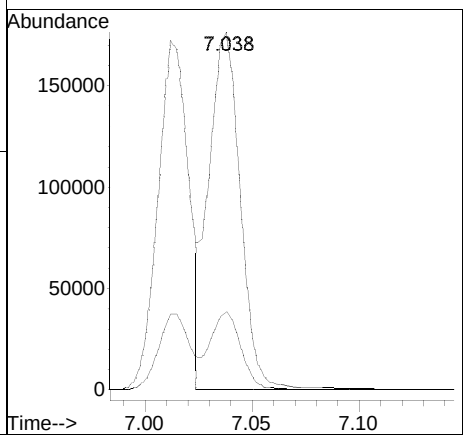


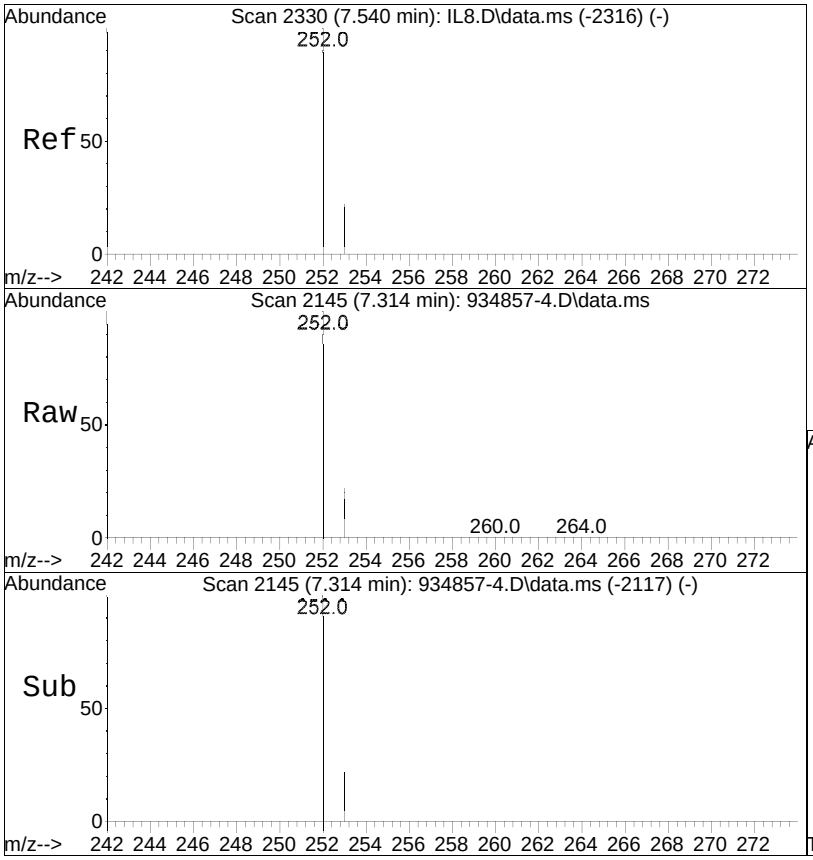


#38
Benzo[k]fluoranthene
Concen: 1133.75 ng/ml
RT: 7.038 min Scan# 2049
Delta R.T. 0.000 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:252 Resp: 178813

Ion	Ratio	Lower	Upper
252	100		
253	20.4	17.5	26.3

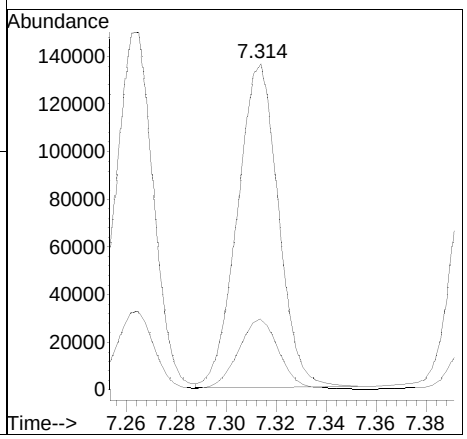


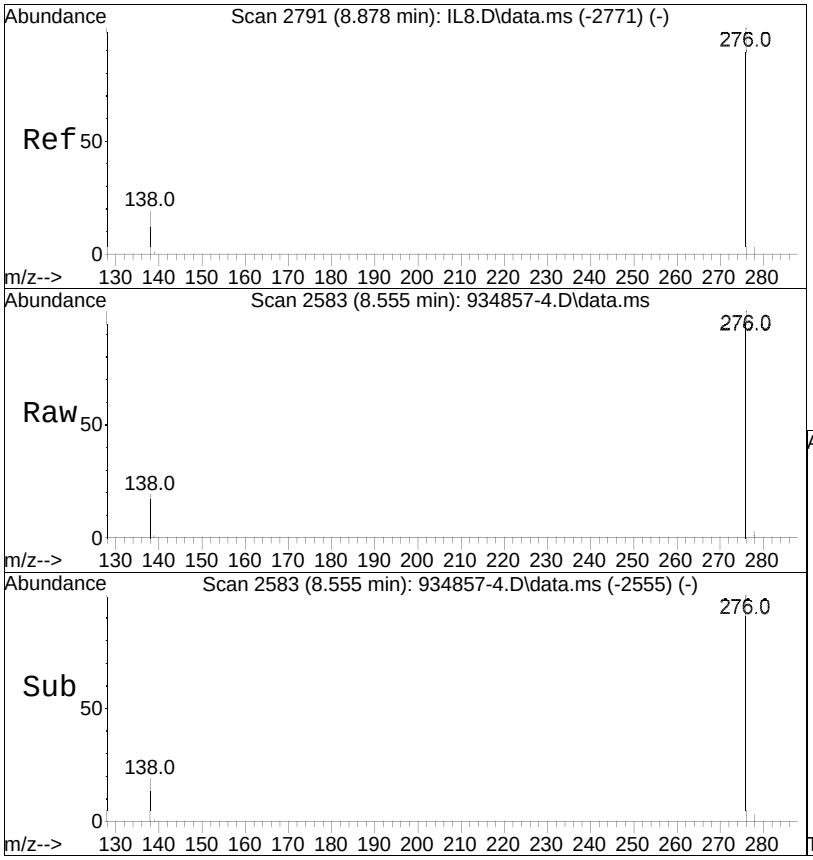


#39
Benzo[a]pyrene
Concen: 1135.21 ng/ml
RT: 7.314 min Scan# 2145
Delta R.T. 0.000 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:252 Resp: 155029

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

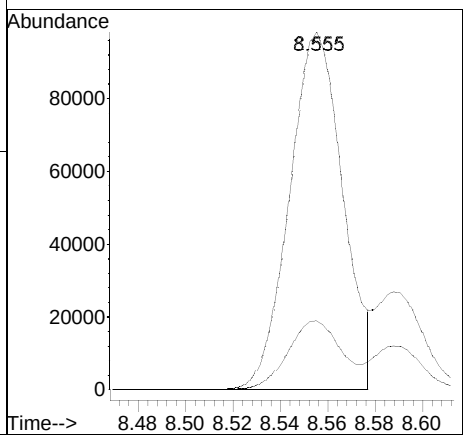


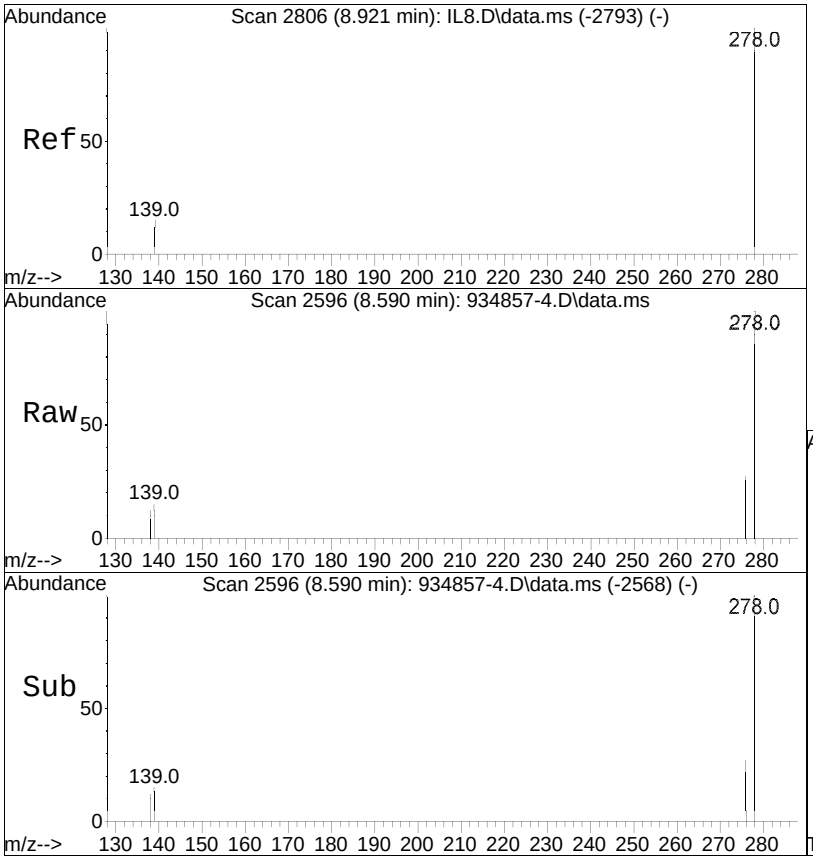


#40
Indeno[1,2,3-cd]pyrene
Concen: 1186.85 ng/ml
RT: 8.555 min Scan# 2583
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:276 Resp: 152645

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.6	24.8

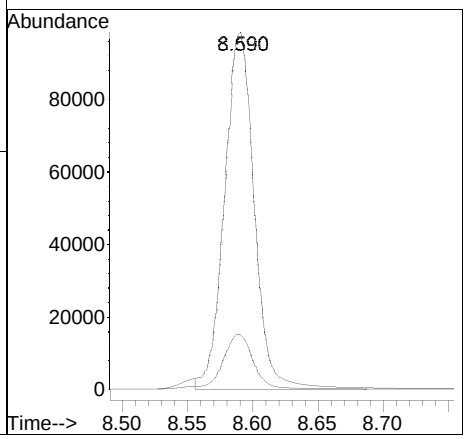


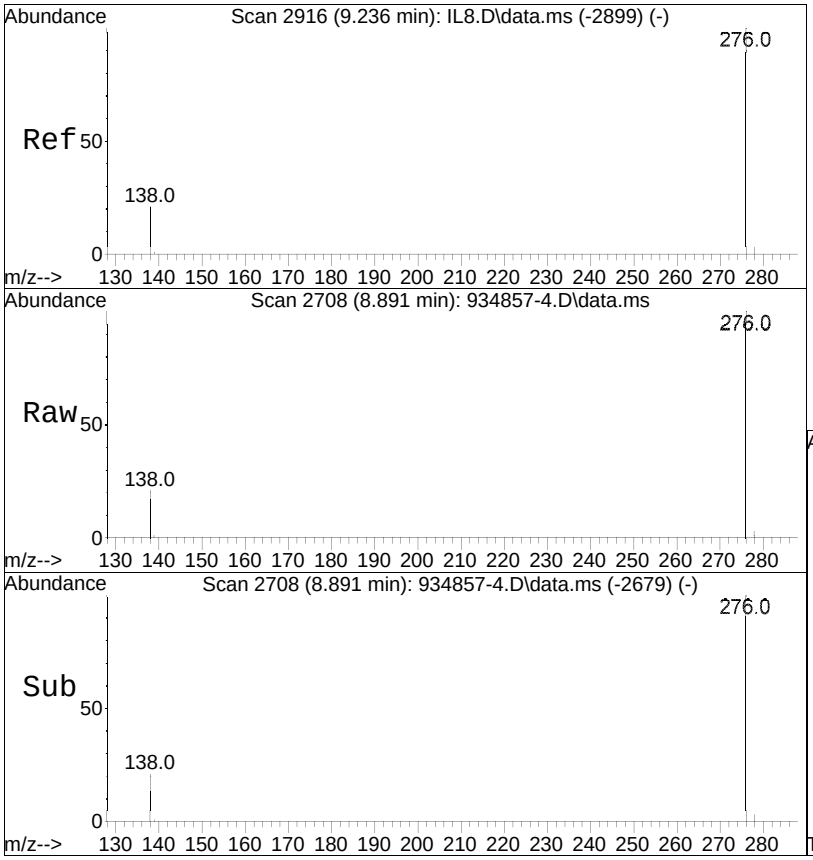


#41
Dibenzo[a,h]anthracene
Concen: 1257.66 ng/ml M6
RT: 8.590 min Scan# 2596
Delta R.T. -0.005 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:278 Resp: 154889

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.0	21.0

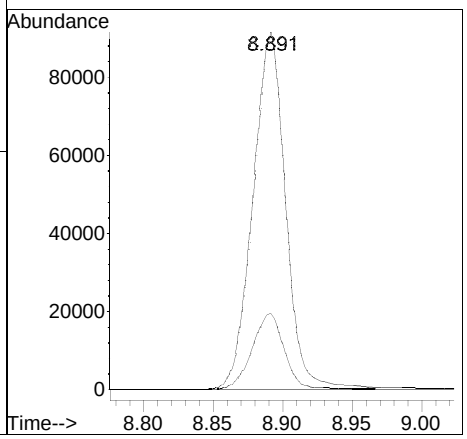




#42
Benzo[g,h,i]perylene
Concen: 1125.27 ng/ml
RT: 8.891 min Scan# 2708
Delta R.T. -0.002 min
Lab File: 934857-4.D
Acq: 18 Jun 2024 12:13 pm

Tgt Ion:276 Resp: 147240

Ion	Ratio	Lower	Upper
276	100		
138	21.2	17.8	26.8

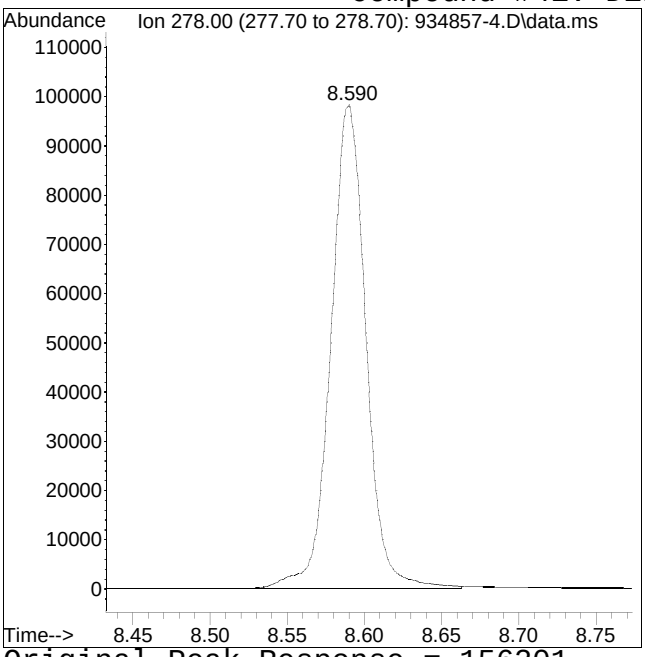


Manual Integration Report

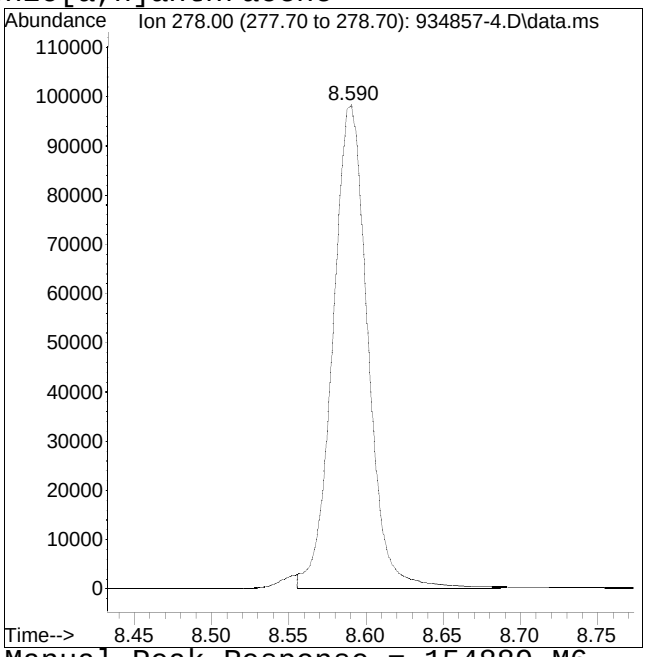
Data Path : I:\8270SIM\sv120\240618RVTQ
Data File : 934857-4.D
Date Inj'd : 6/18/2024 12:13 pm
Sample : WG1934857-4,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 6/18/2024 12:27 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 156201



Manual Peak Response = 154889 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-5.D
Acq On : 18 Jun 2024 12:30 pm
Operator : SV120:sbc
Sample : WG1934857-5,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 14:21:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.205	152	114975	4000.000	ng/ml	0.00
Standard Area 1 = 104092			Recovery	= 110.46%		
8) Naphthalene-d8	2.864	136	446820	4000.000	ng/ml	0.00
Standard Area 1 = 383025			Recovery	= 116.66%		
17) Acenaphthene-d10	3.836	164	242812	4000.000	ng/ml	0.00
Standard Area 1 = 220388			Recovery	= 110.17%		
22) Phenanthrene-d10	4.673	188	512713	4000.000	ng/ml	0.00
Standard Area 1 = 468722			Recovery	= 109.39%		
31) Chrysene-d12	6.210	240	441538	4000.000	ng/ml	0.00
Standard Area 1 = 427549			Recovery	= 103.27%		
36) Perylene-d12	7.376	264	456454	4000.000	ng/ml	0.00
Standard Area 1 = 460182			Recovery	= 99.19%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.630	112	11632	340.397	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 17.02%		
3) Phenol-d6	2.024	99	18664	454.375	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 22.72%		
7) Nitrobenzene-d5	2.484	82	28632	782.346	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 78.23%		
13) 2-Fluorobiphenyl	3.459	172	65824	692.827	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 69.28%		
21) 2,4,6-Tribromophenol	4.279	330	8788	535.013	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 26.75%		
30) 4-Terphenyl-d14	5.581	244	87294	836.789	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 41.84%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	52699	1451.599	ng/ml	97
6) Hexachloroethane	2.461	117	17988	1093.528	ng/ml	98
9) Naphthalene	2.874	128	158099	1251.782	ng/ml	100
10) Hexachlorobutadiene	2.947	225	26789	1108.813	ng/ml	100
11) 2-Methylnaphthalene	3.253	142	107483	1364.025	ng/ml	100
14) 2-Chloronaphthalene	3.524	162	112009	1390.772	ng/ml	93
16) Acenaphthylene	3.755	152	183780	1550.526	ng/ml	100
18) Acenaphthene	3.853	153	125021	1500.641	ng/ml	94
20) Fluorene	4.144	166	141592	1576.678	ng/ml	100
24) Hexachlorobenzene	4.459	284	55497	1502.259	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-5.D
Acq On : 18 Jun 2024 12:30 pm
Operator : SV120:sbc
Sample : WG1934857-5,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 14:21:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240618RVT\ccv0618.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.570	266	7577	384.940	ng/ml	97
26) Phenanthrene	4.684	178	220800	1531.606	ng/ml	100
27) Anthracene	4.712	178	221325	1553.819	ng/ml	100
28) Fluoranthene	5.362	202	264028	1688.699	ng/ml	100
29) Pyrene	5.489	202	271537	1674.858	ng/ml	100
32) Benzo[a]anthracene	6.201	228	252783	1495.449	ng/ml	100
34) Chrysene	6.224	228	239630	1497.240	ng/ml	98
37) Benzo[b]fluoranthene	7.014	252	240705	1594.807	ng/ml	100
38) Benzo[k]fluoranthene	7.037	252	238553	1660.202	ng/ml	100
39) Benzo[a]pyrene	7.312	252	212249	1705.954	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.557	276	218739	1866.795	ng/ml	96
41) Dibenzo[a,h]anthracene	8.589	278	212527M6	1894.154	ng/ml	
42) Benzo[g,h,i]perylene	8.888	276	204284	1713.659	ng/ml	98

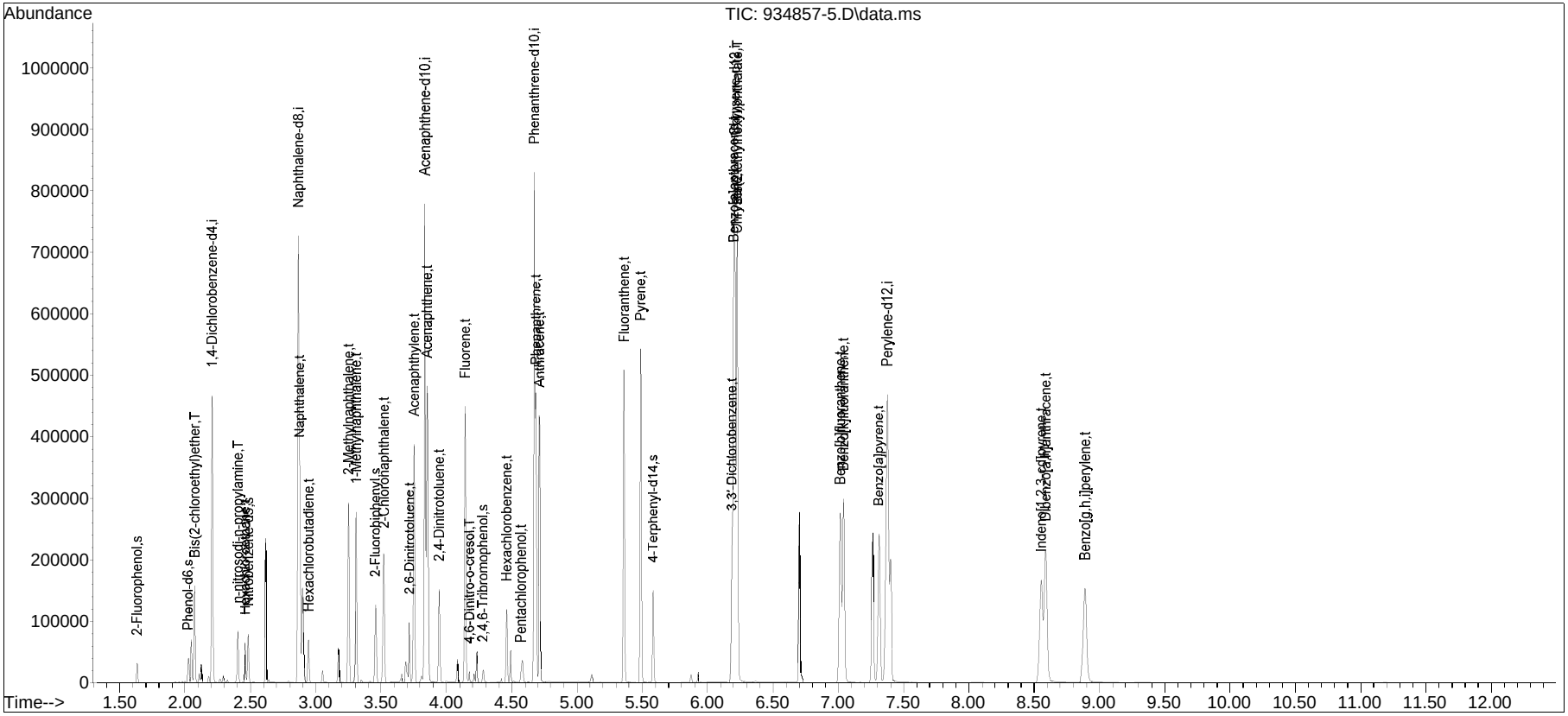
(#) = qualifier out of range (m) = manual integration (+) = signals summed

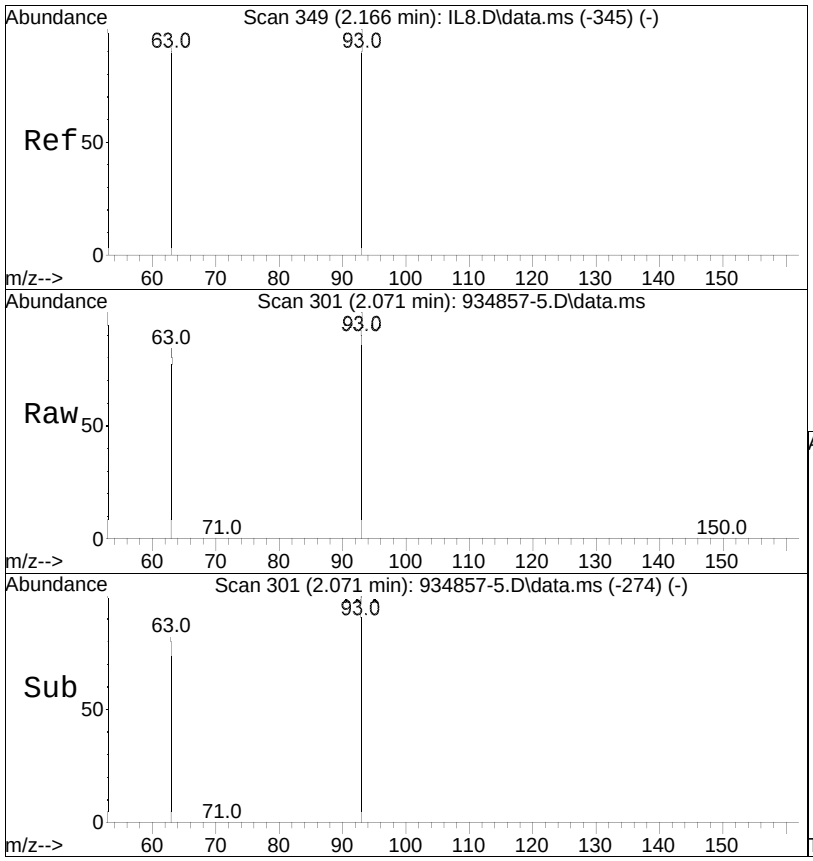
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240618RVT\
Data File : 934857-5.D
Acq On : 18 Jun 2024 12:30 pm
Operator : SV120:sbc
Sample : WG1934857-5,32,,ah
Misc : WG1935718,WG1934857,ical21160
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 14:21:09 2024
Quant Method : I:\8270sim\sv120\240618RVT\SIM-RVT_240521_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 18 07:28:10 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0618.D•

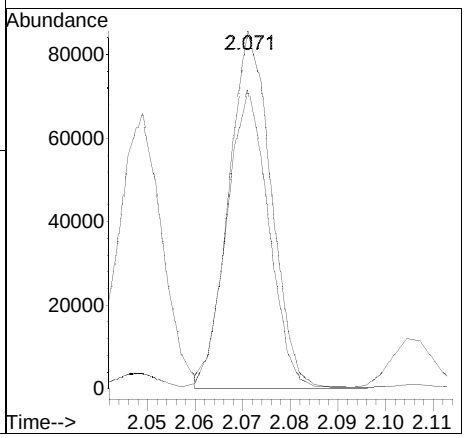


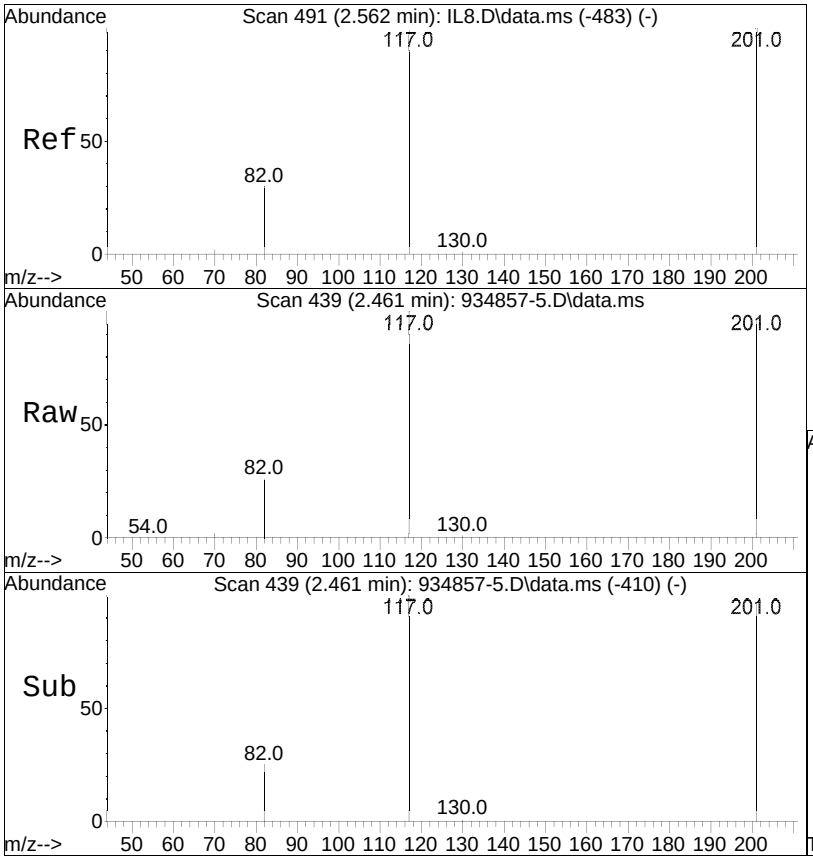


#4
Bis(2-chloroethyl)ether
Concen: 1451.60 ng/ml
RT: 2.071 min Scan# 301
Delta R.T. -0.005 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion: 93 Resp: 52699

Ion	Ratio	Lower	Upper
93	100		
63	82.9	68.6	102.8

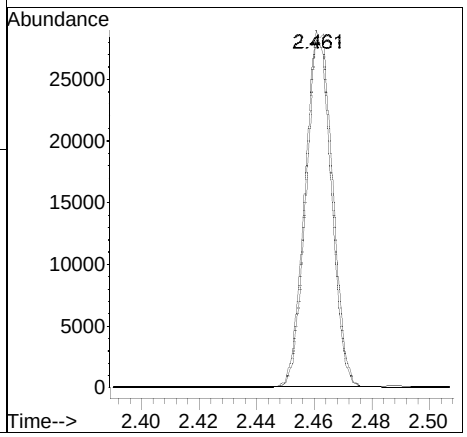


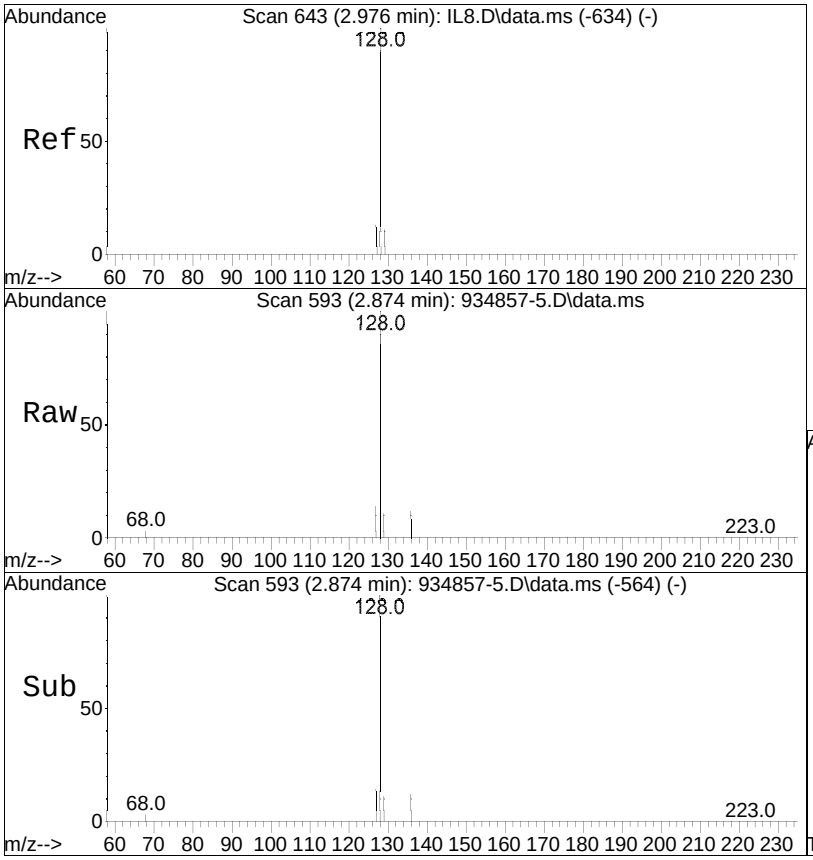


#6
Hexachloroethane
Concen: 1093.53 ng/ml
RT: 2.461 min Scan# 439
Delta R.T. -0.004 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:117 Resp: 17988

Ion	Ratio	Lower	Upper
117	100		
201	100.9	79.4	119.2

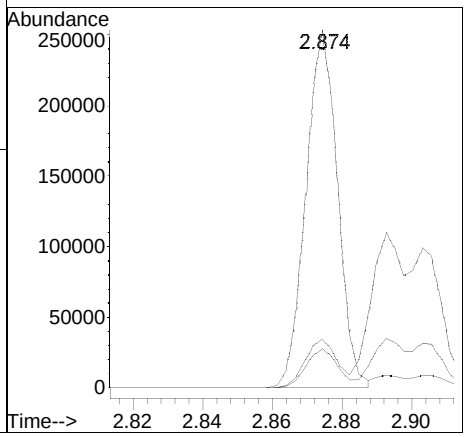


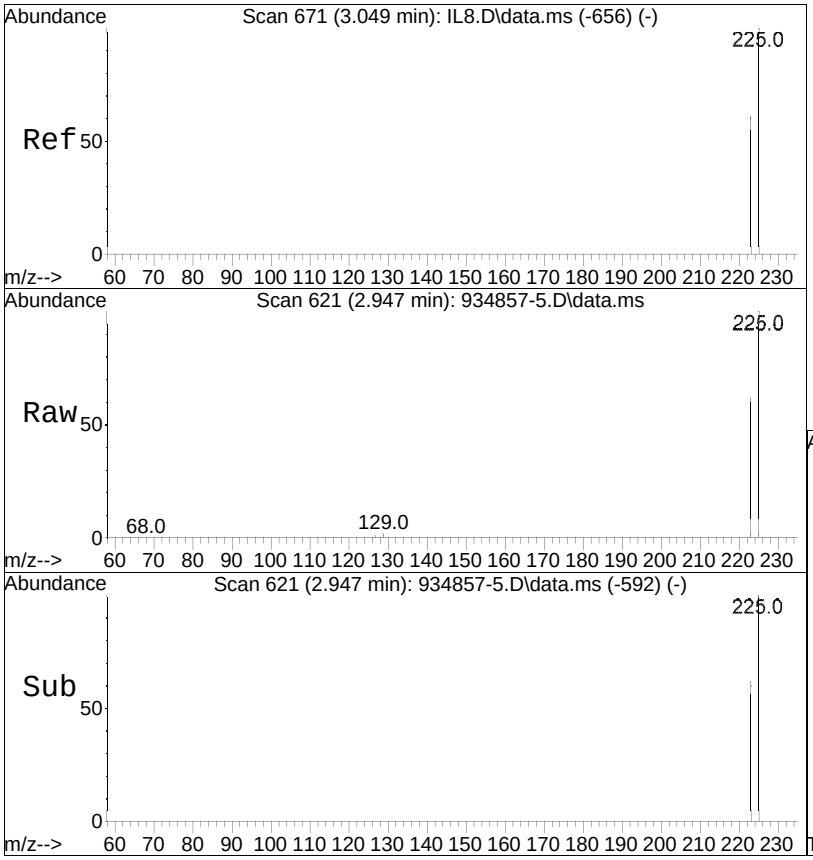


#9
Naphthalene
Concen: 1251.78 ng/ml
RT: 2.874 min Scan# 593
Delta R.T. -0.004 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:128 Resp: 158099

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	14.1	11.3	16.9

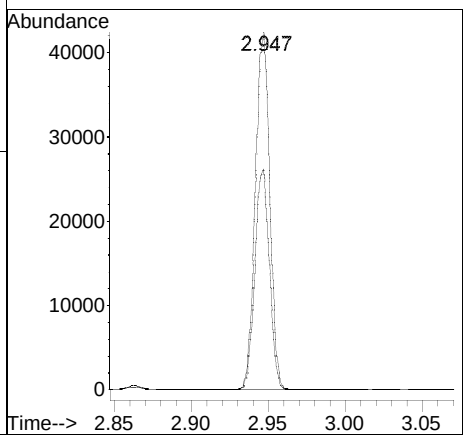


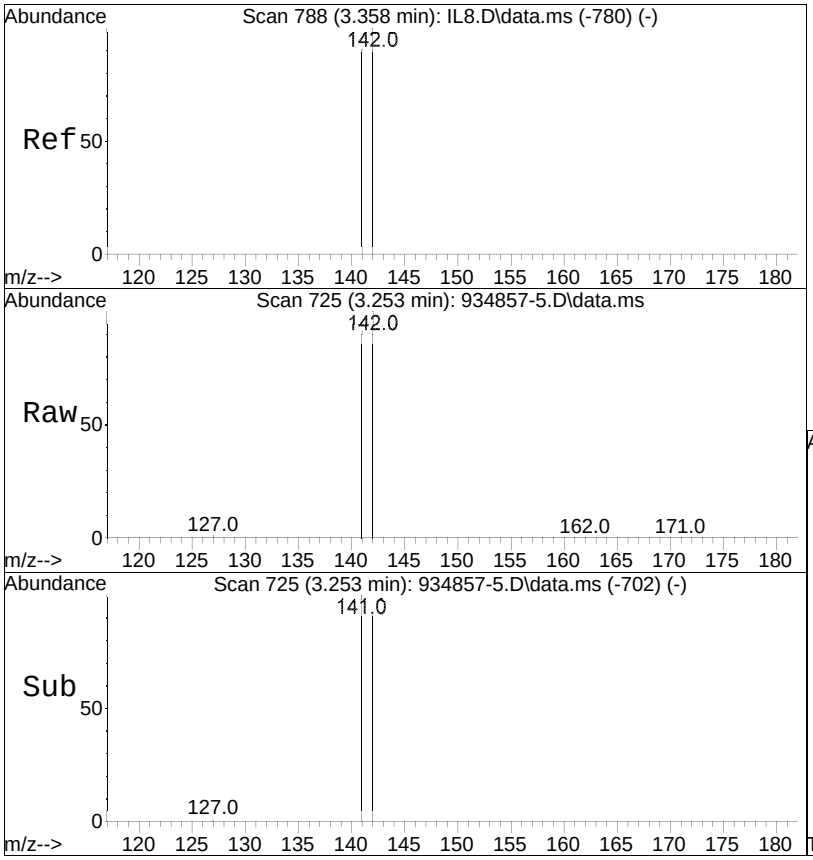


#10
Hexachlorobutadiene
Concen: 1108.81 ng/ml
RT: 2.947 min Scan# 621
Delta R.T. -0.004 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:225 Resp: 26789

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1

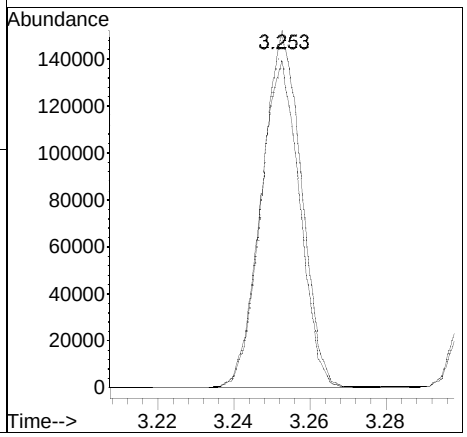


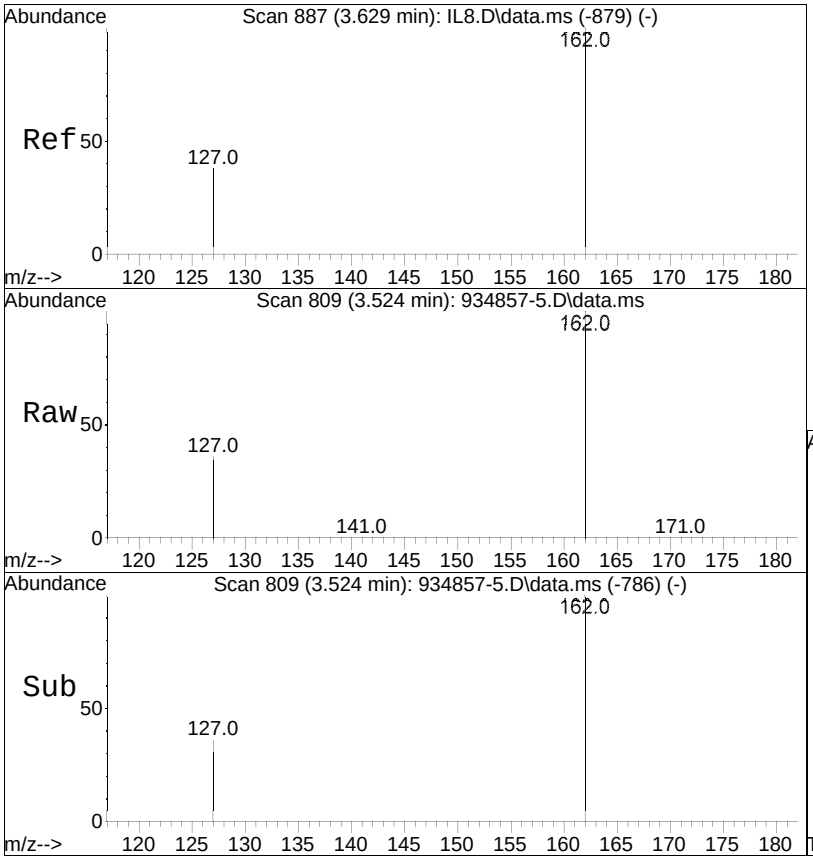


#11
2-Methylnaphthalene
Concen: 1364.03 ng/ml
RT: 3.253 min Scan# 725
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:142 Resp: 107483

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6

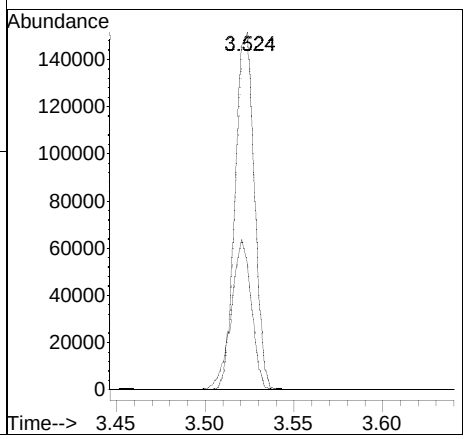


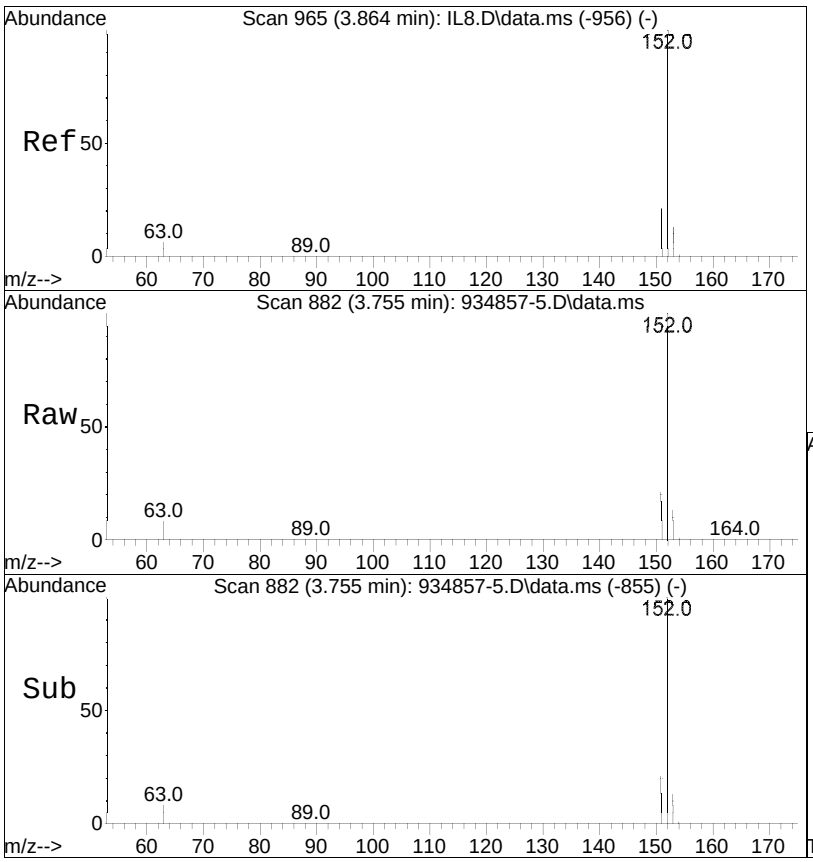


#14
2-Chloronaphthalene
Concen: 1390.77 ng/ml
RT: 3.524 min Scan# 809
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:162 Resp: 112009

Ion	Ratio	Lower	Upper
162	100		
127	44.4	32.0	48.0

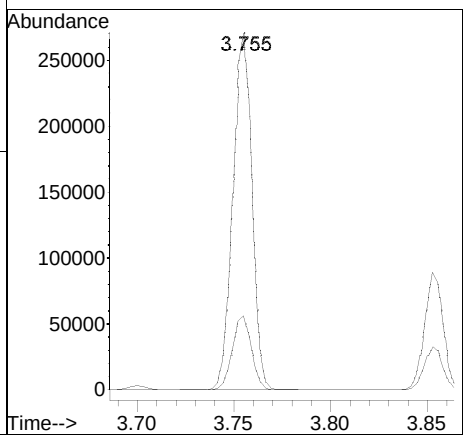


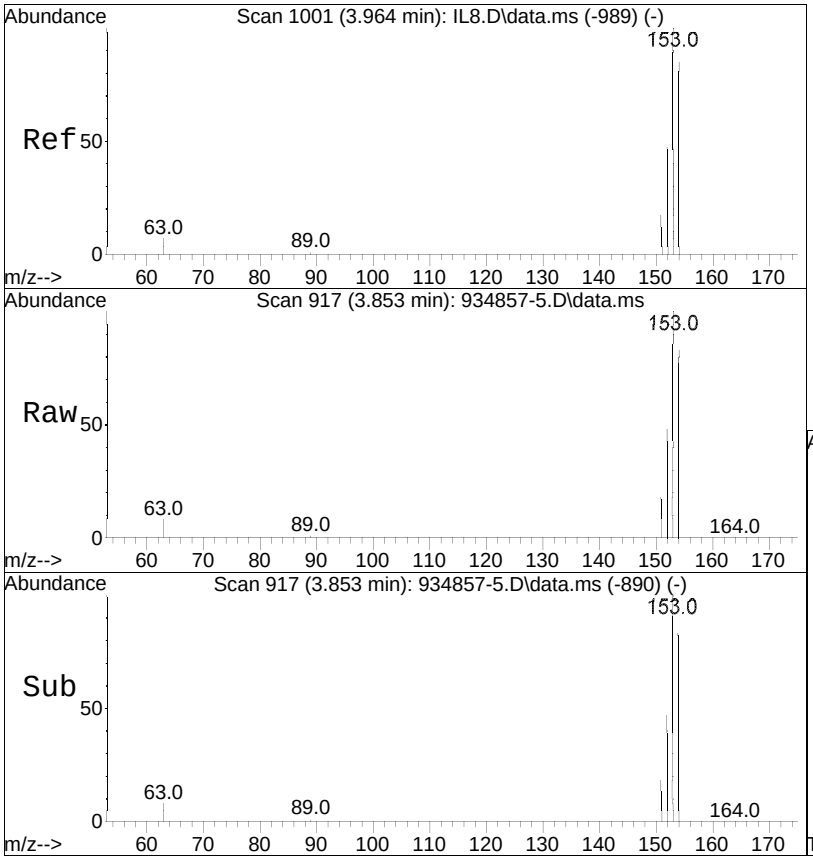


#16
Acenaphthylene
Concen: 1550.53 ng/ml
RT: 3.755 min Scan# 882
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:152 Resp: 183780

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7

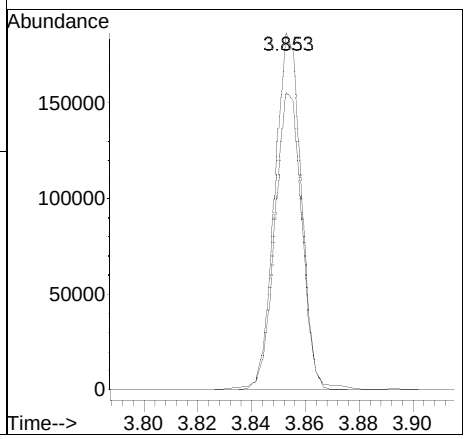


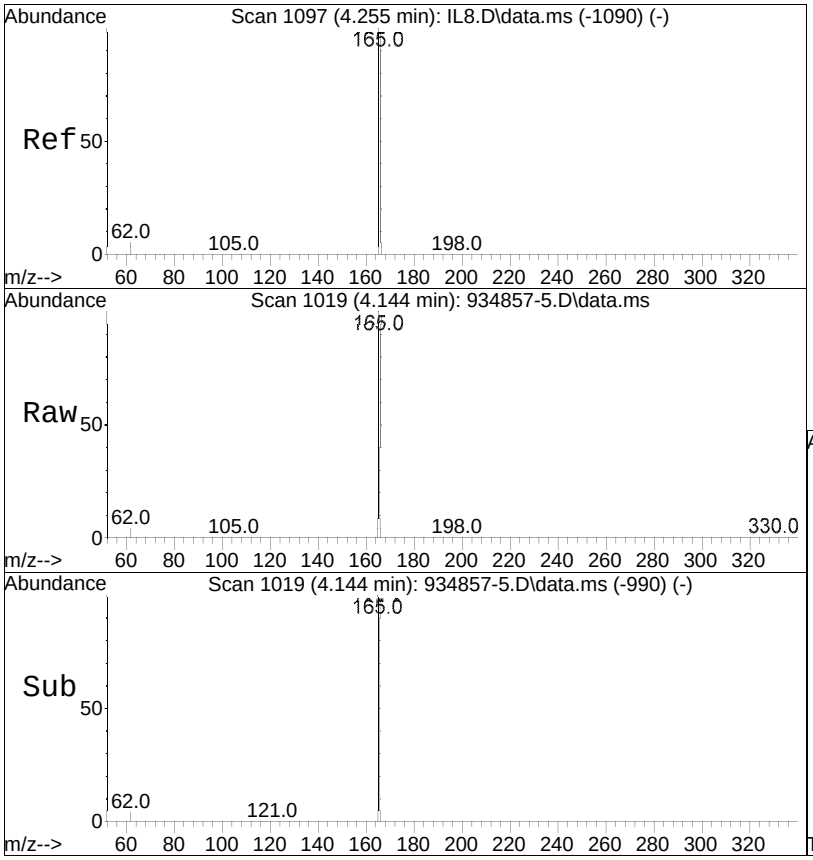


#18
Acenaphthene
Concen: 1500.64 ng/ml
RT: 3.853 min Scan# 917
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:153 Resp: 125021

Ion	Ratio	Lower	Upper
153	100		
154	86.1	73.4	110.2

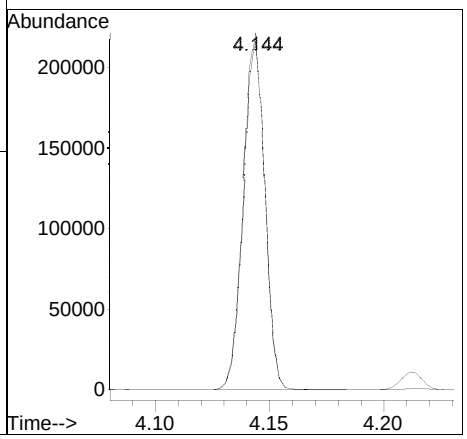


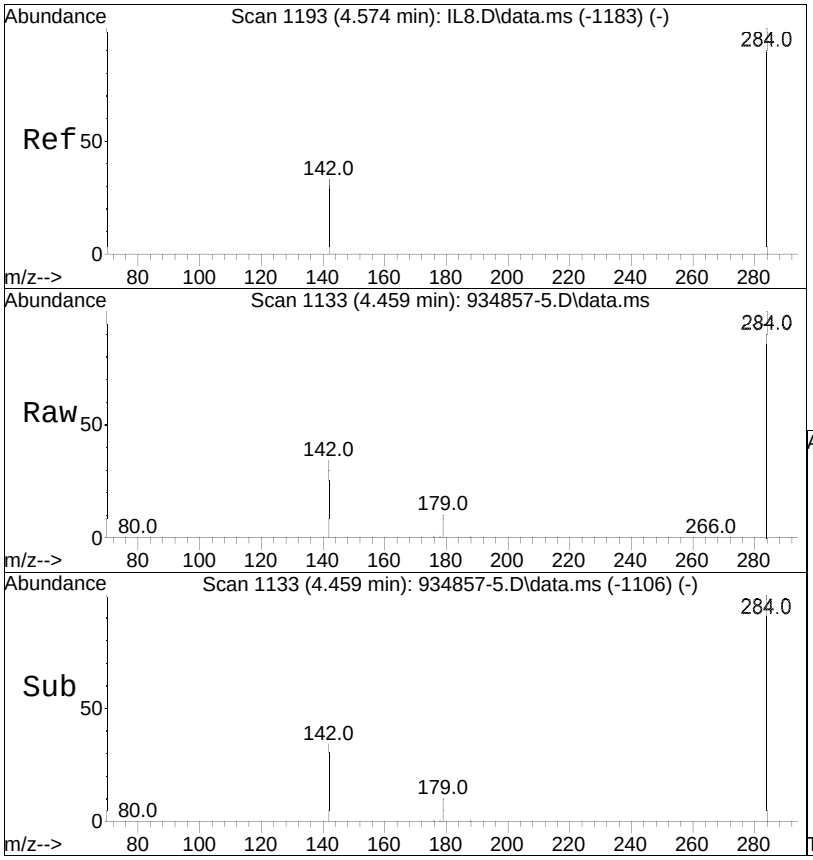


#20
Fluorene
Concen: 1576.68 ng/ml
RT: 4.144 min Scan# 1019
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:166 Resp: 141592

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.9	122.9

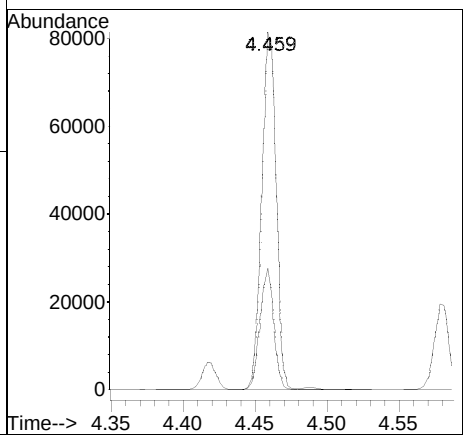


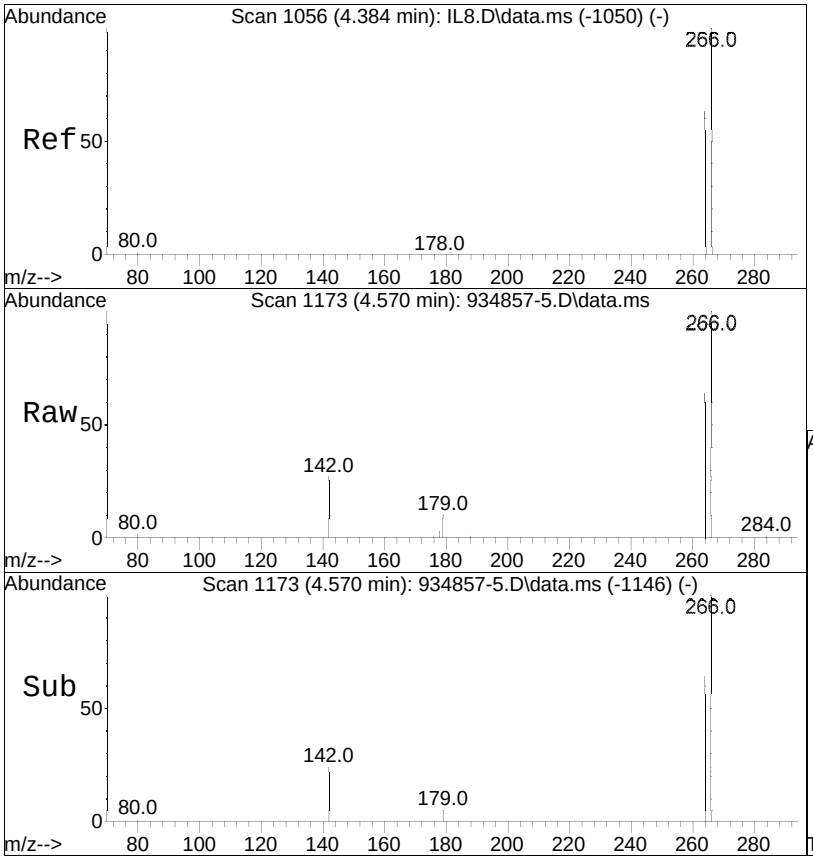


#24
Hexachlorobenzene
Concen: 1502.26 ng/ml
RT: 4.459 min Scan# 1133
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:284 Resp: 55497

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.8	40.2

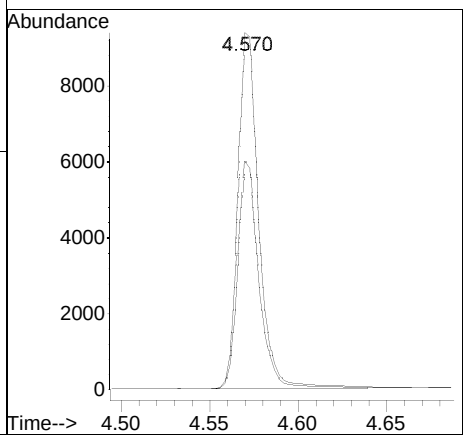


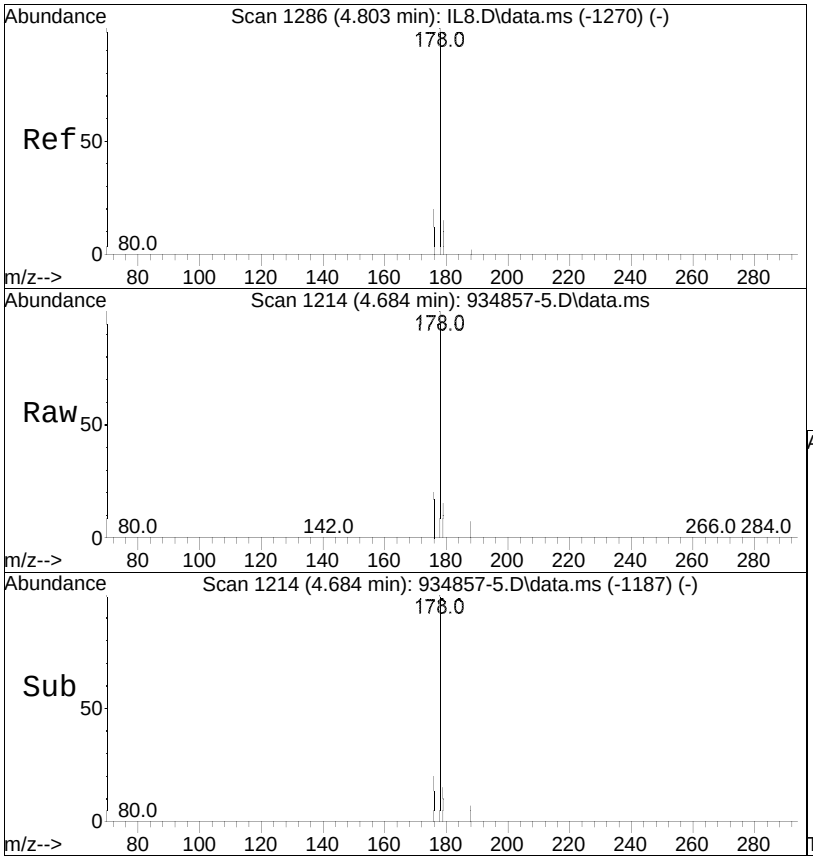


#25
Pentachlorophenol
Concen: 384.94 ng/ml
RT: 4.570 min Scan# 1173
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:266 Resp: 7577

Ion	Ratio	Lower	Upper
266	100		
264	65.0	50.2	75.2

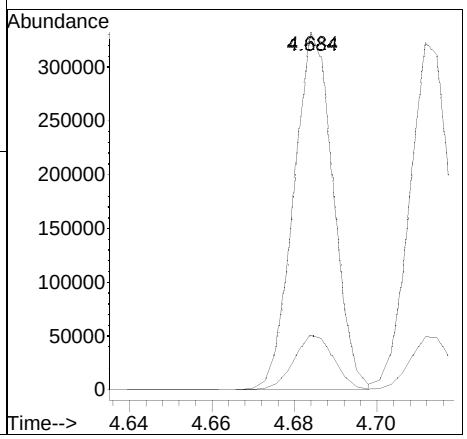


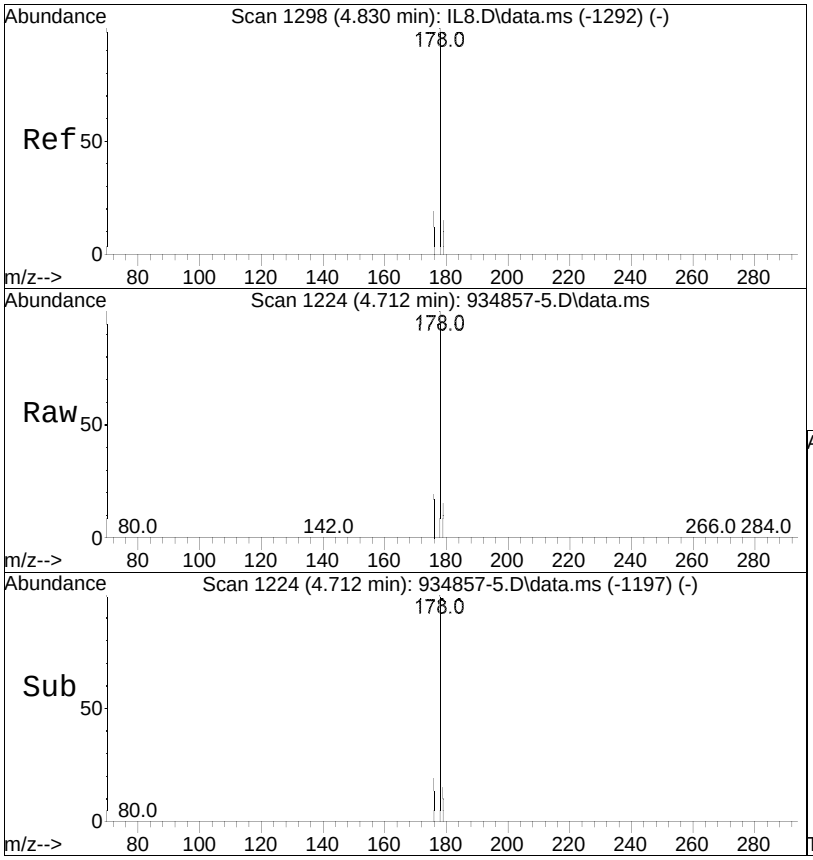


#26
Phenanthrene
Concen: 1531.61 ng/ml
RT: 4.684 min Scan# 1214
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:178 Resp: 220800

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

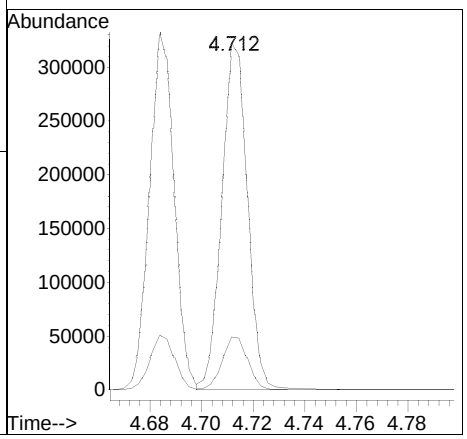


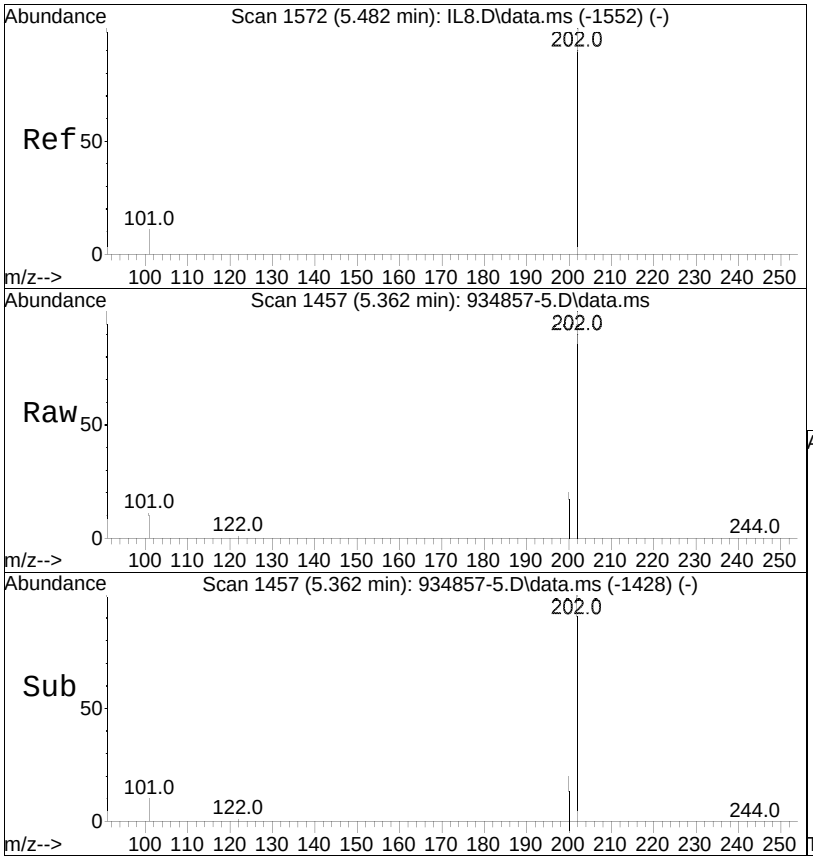


#27
Anthracene
Concen: 1553.82 ng/ml
RT: 4.712 min Scan# 1224
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:178 Resp: 221325

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

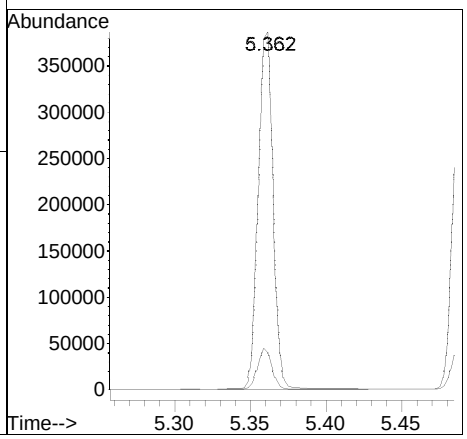


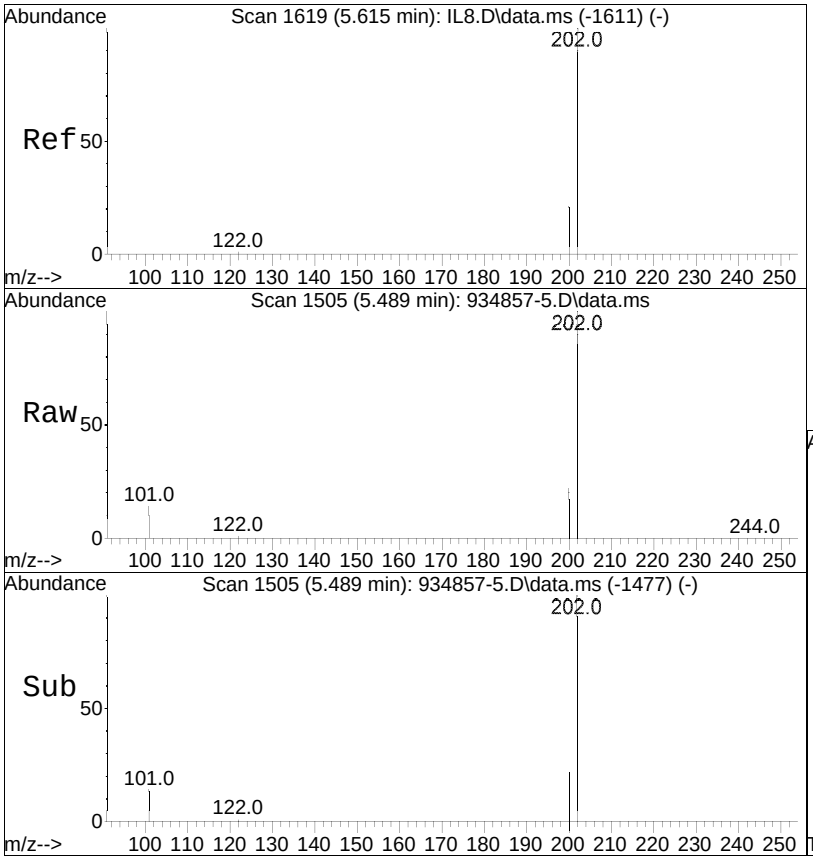


#28
Fluoranthene
Concen: 1688.70 ng/ml
RT: 5.362 min Scan# 1457
Delta R.T. -0.003 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:202 Resp: 264028

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.0	13.6

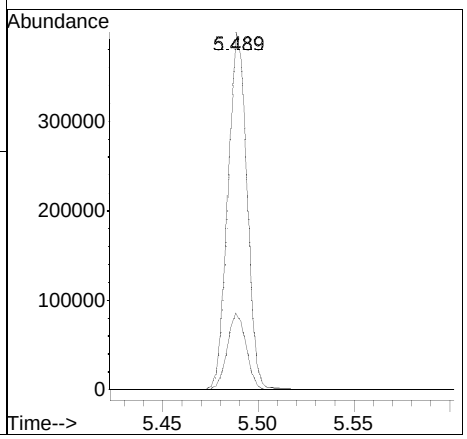


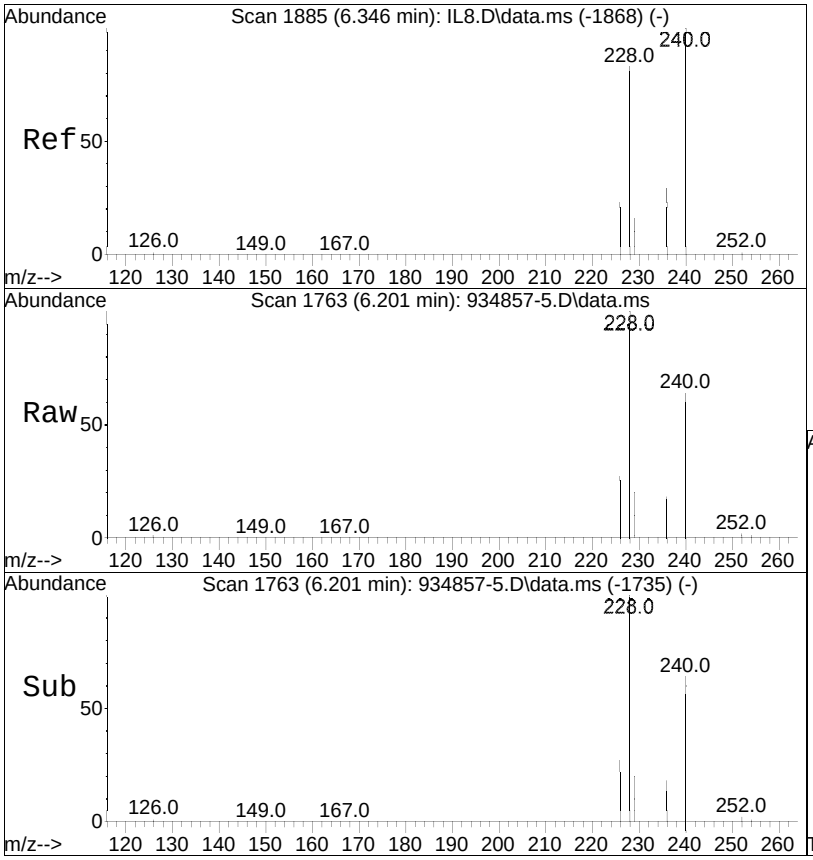


#29
Pyrene
Concen: 1674.86 ng/ml
RT: 5.489 min Scan# 1505
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:202 Resp: 271537

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8

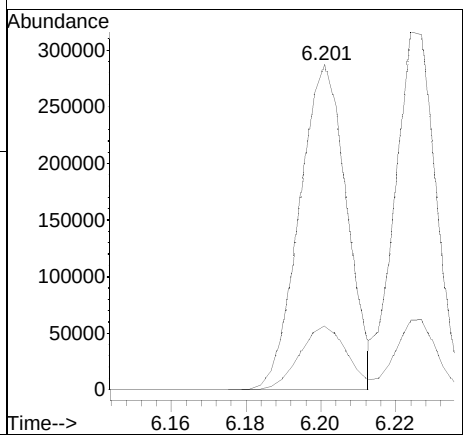


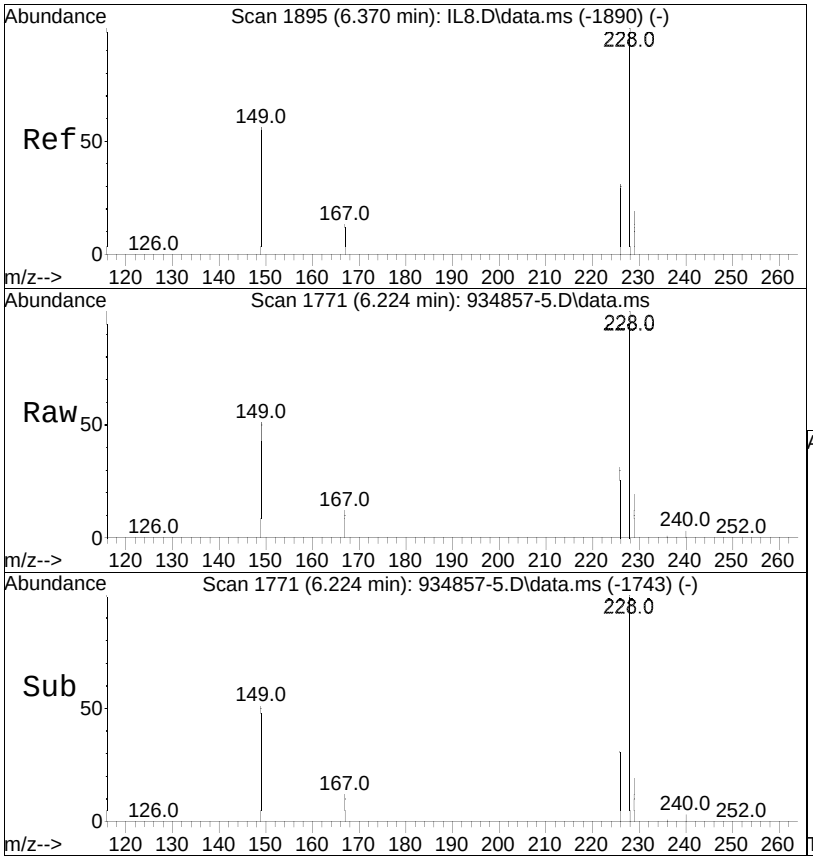


#32
Benzo[a]anthracene
Concen: 1495.45 ng/ml
RT: 6.201 min Scan# 1763
Delta R.T. -0.001 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:228 Resp: 252783

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

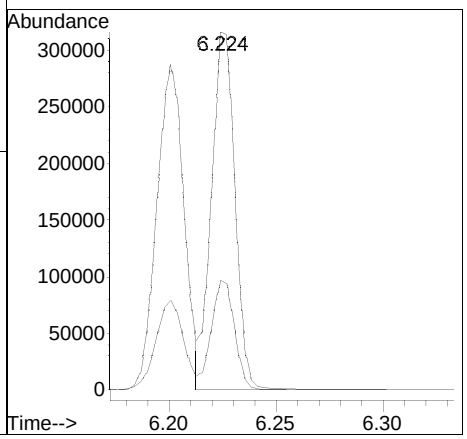


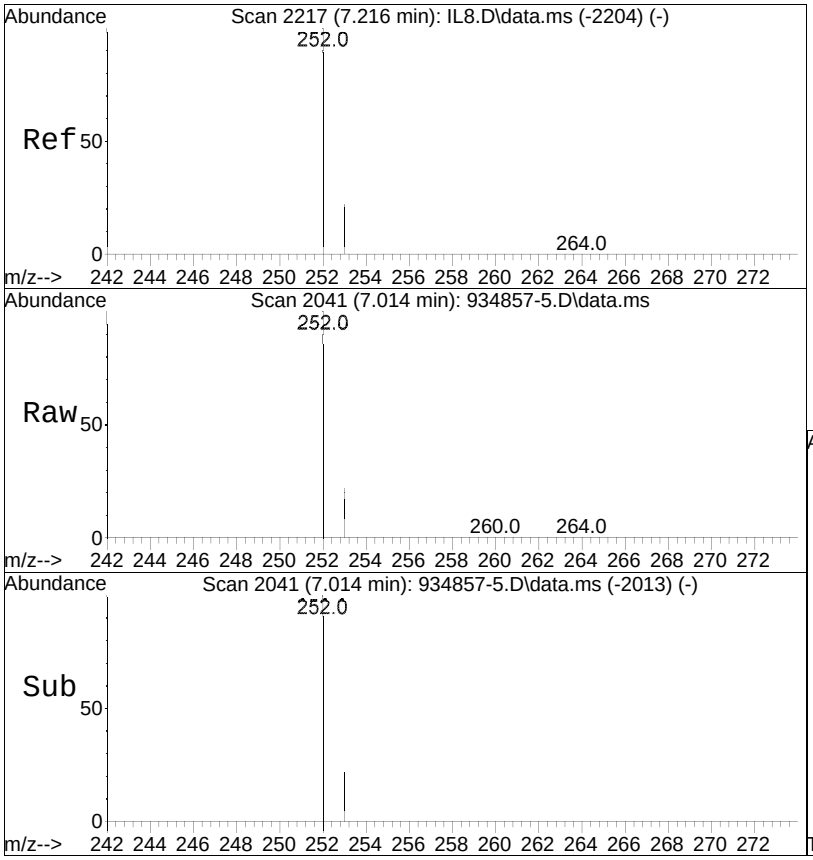


#34
Chrysene
Concen: 1497.24 ng/ml
RT: 6.224 min Scan# 1771
Delta R.T. -0.001 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:228 Resp: 239630

Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.1	37.7

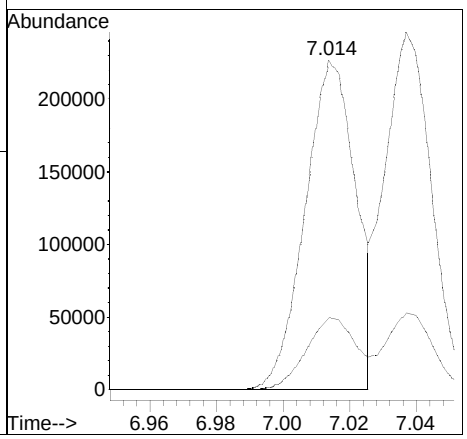


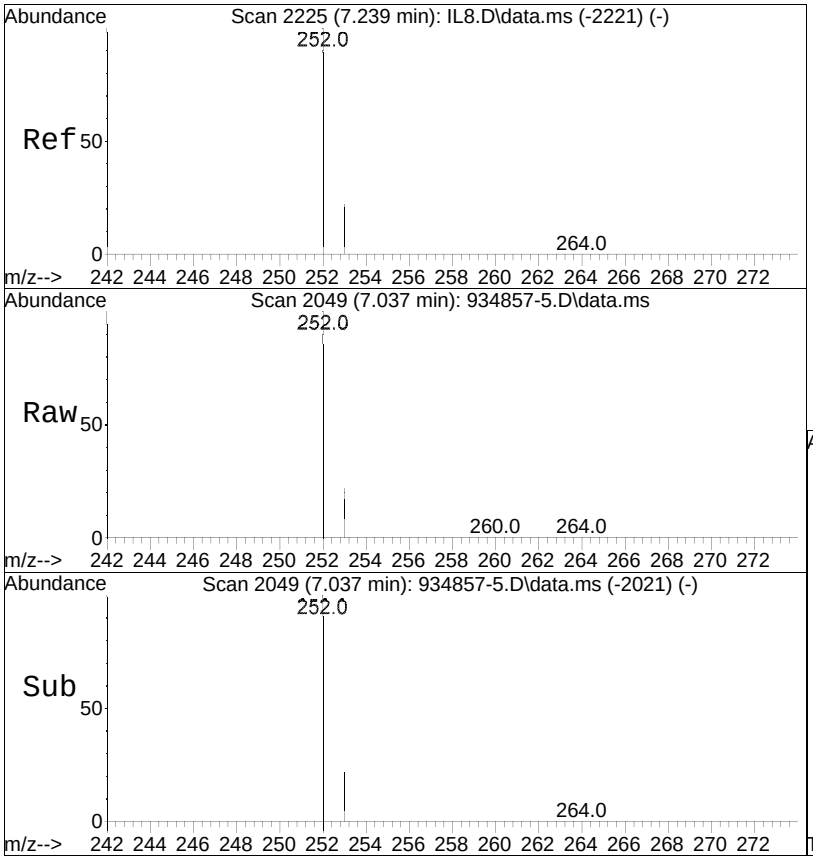


#37
Benzo[b]fluoranthene
Concen: 1594.81 ng/ml
RT: 7.014 min Scan# 2041
Delta R.T. -0.001 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:252 Resp: 240705

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

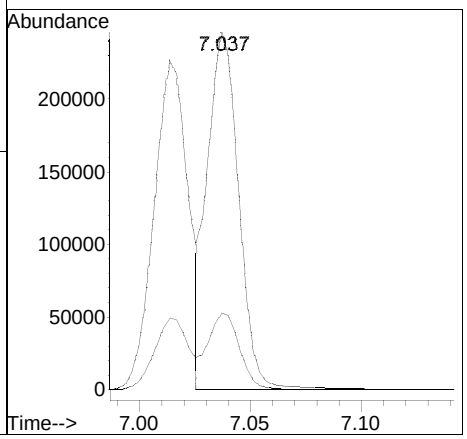


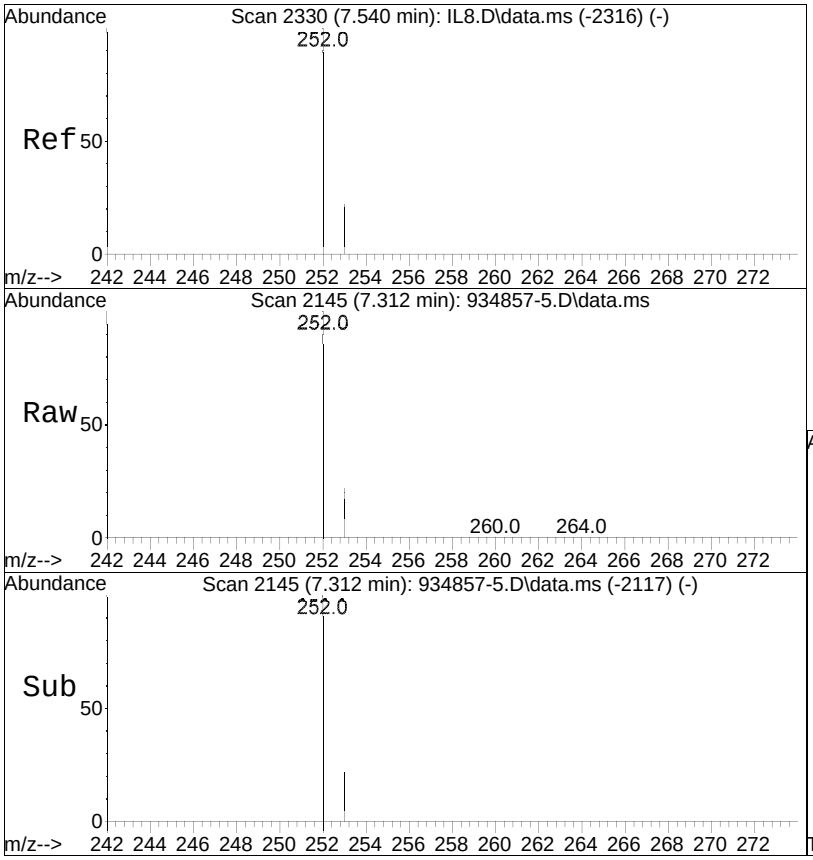


#38
Benzo[k]fluoranthene
Concen: 1660.20 ng/ml
RT: 7.037 min Scan# 2049
Delta R.T. -0.001 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:252 Resp: 238553

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

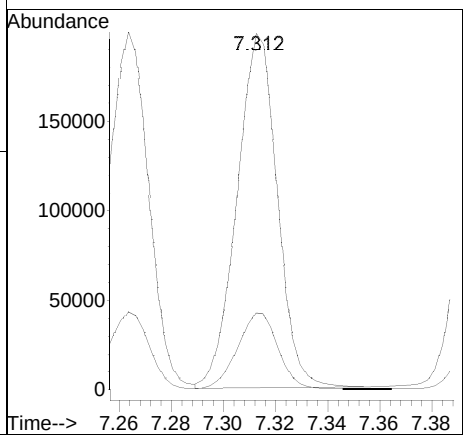


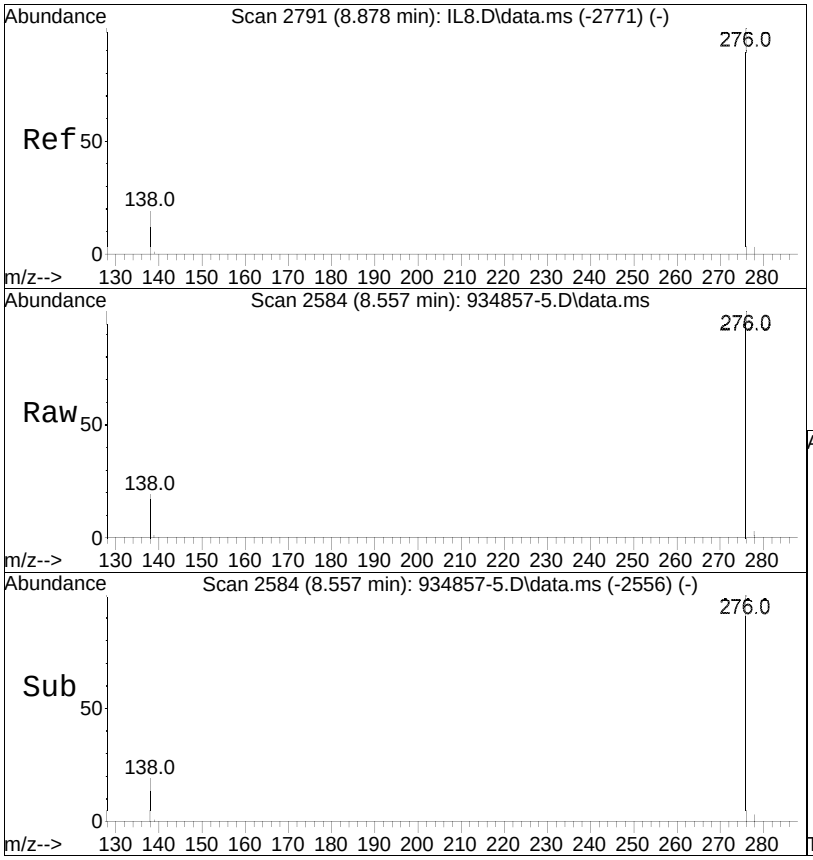


#39
Benzo[a]pyrene
Concen: 1705.95 ng/ml
RT: 7.312 min Scan# 2145
Delta R.T. -0.001 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:252 Resp: 212249

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

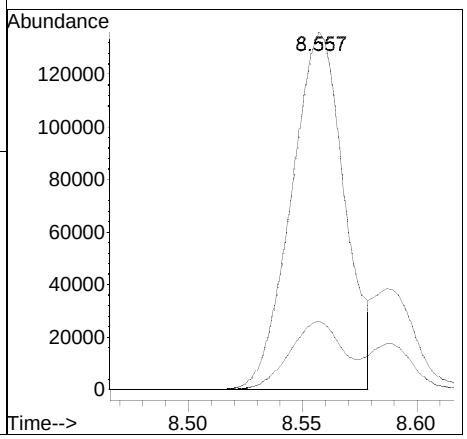


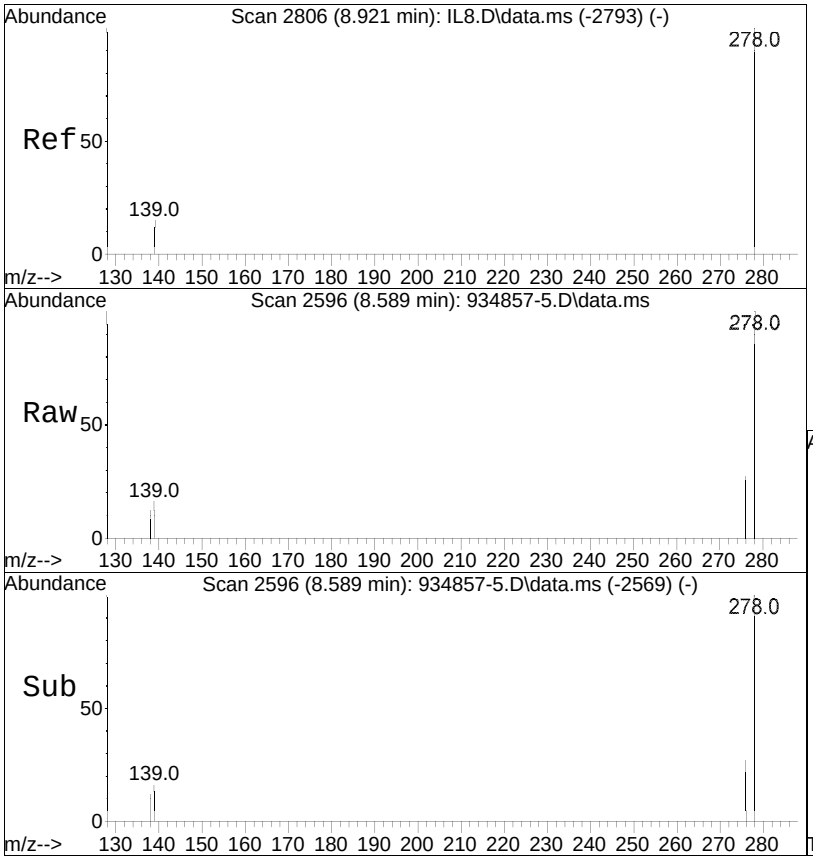


#40
Indeno[1,2,3-cd]pyrene
Concen: 1866.80 ng/ml
RT: 8.557 min Scan# 2584
Delta R.T. -0.004 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:276 Resp: 218739

Ion	Ratio	Lower	Upper
276	100		
138	19.0	16.6	24.8

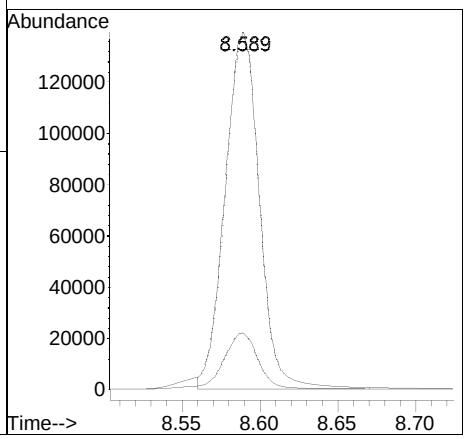


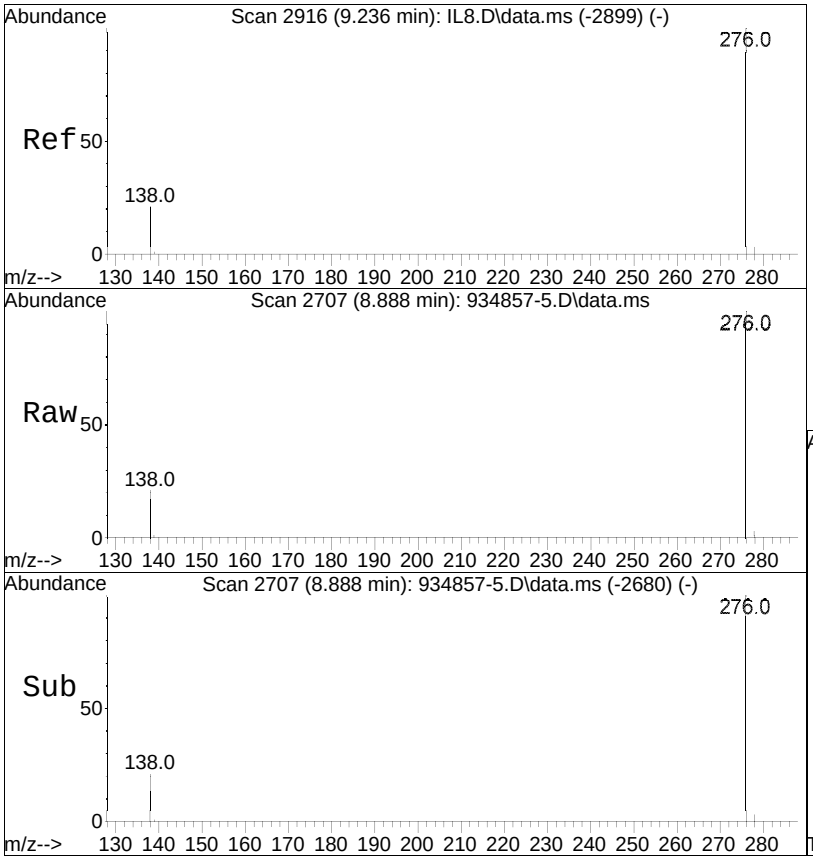


#41
Dibenzo[a,h]anthracene
Concen: 1894.15 ng/ml M6
RT: 8.589 min Scan# 2596
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:278 Resp: 212527

Ion	Ratio	Lower	Upper
278	100		
139	16.2	14.0	21.0

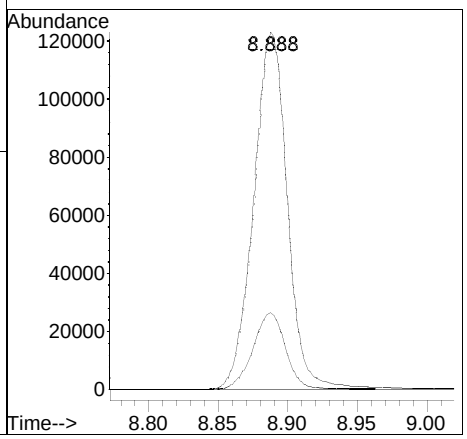




#42
Benzo[g,h,i]perylene
Concen: 1713.66 ng/ml
RT: 8.888 min Scan# 2707
Delta R.T. -0.006 min
Lab File: 934857-5.D
Acq: 18 Jun 2024 12:30 pm

Tgt Ion:276 Resp: 204284

Ion	Ratio	Lower	Upper
276	100		
138	21.3	17.8	26.8

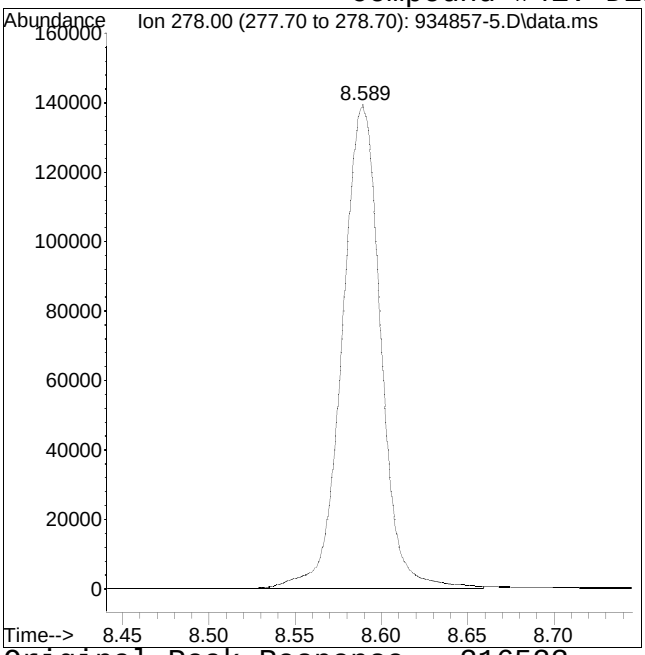


Manual Integration Report

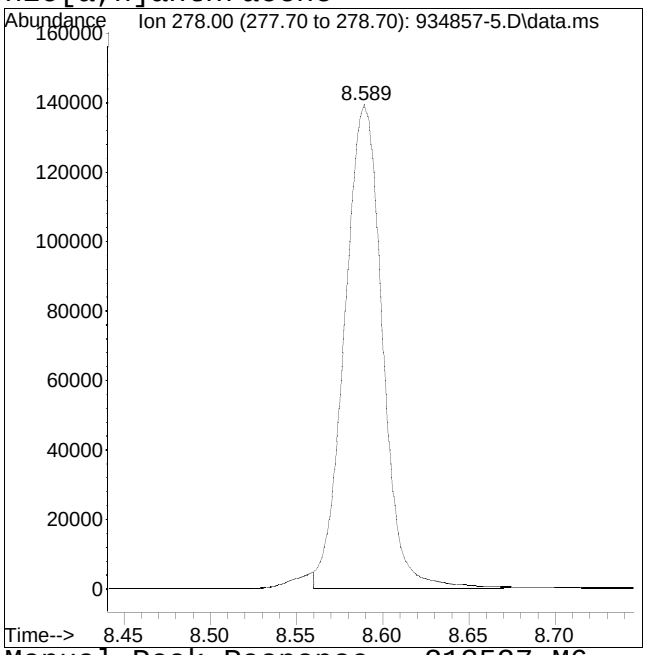
Data Path : I:\8270SIM\sv120\240618RVTQ
Data File : 934857-5.D
Date Inj'd : 6/18/2024 12:30 pm
Sample : WG1934857-5,32,,ah

Method : SIM-RVT_240521_sv120.M
Operator : SV120:sbc
Instrument : SV120
Quant Date : 6/18/2024 12:43 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 216523



Manual Peak Response = 212527 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 29 2024, 10:34 am

Work Group: WG1934857 for Department: 2 Organic Preparation

Created: 15-JUN-24 Due: Operator: RSN

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432996-06	FH-GW-4	S	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-01	MW-8S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-02	MW-8D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-03	MW-1SR	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-04	MW-1DR2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-05	MP-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-06	MP-1D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-09	EB_06122024	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-10	DUP_06122024	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433160-01	TWP-1	S	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433160-02	TWP-2	S	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433652-02	FB-2024-06-14	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0621	0617	3A	Amber-A.1
L2433817-01	GW-17A-061424	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0621	0617	3A	Amber-A.1
WG1934857-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934857-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934857-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934857-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1934857-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1934857-3	WG1934857-2
WG1934857-4	L2433035-03
WG1934857-5	L2433035-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 29 2024, 10:34 am

Work Group: WG1935742 for Department: 2 Organic Preparation

Created: 18-JUN-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2431167-05	EB2	C	8270TCL-SIM-RVT	WATER	DONE	U	0612	0619	S0	Amber-A.1
L2431203-01	GW-3_20240605	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0612	0619	S0	Amber-A.1
L2431297-07	FB 2024-06-05	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0612	0619	S0	Amber-A.1
L2432970-09	FIELD BLANK EAST YOUNG	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-07	PZ-6	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2433035-08	MW-6D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0619	0619	S0	Amber-A.1
L2434125-01	EB-2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
L2434125-02	EB-4	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
L2434125-03	EB-1	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0624	0619	3B	Amber-A.1
WG1935742-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1935742-1	Laboratory Method Bl	S	8270TCL-SIM-RVT	WATER	WIP	U				
WG1935742-2	Laboratory Control S	S	8270TCL-SIM-RVT	WATER	WIP	U				
WG1935742-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1935742-3	LCS Duplicate	S	8270TCL-SIM-RVT	WATER	WIP	U				
WG1935742-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1935742-3 WG1935742-2

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\sv120\240521RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1927083,,ical	5/21/2024 9:54 am
2	IL10.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/21/2024 10:21 am
3	IL9.D	fast-SIM-LVI	IL9,32,,2500.0ng/mL lot	WG1927083,,ical	5/21/2024 10:37 am
4	IL8.D	fast-SIM-LVI	IL8,32,,1000.0ng/mL lot	WG1927083,,ical	5/21/2024 10:53 am
5	IL7.D	fast-SIM-LVI	IL7,32,,500.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:10 am
6	IL6.D	fast-SIM-LVI	IL6,32,,100.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:26 am
7	IL5.D	fast-SIM-LVI	IL5,32,,40.0ng/mL lot#	WG1927083,,ical	5/21/2024 11:42 am
8	IL4.D	fast-SIM-LVI	IL4,32,,10.0ng/mL lot#1	WG1927083,,ical	5/21/2024 11:59 am
9	IL3.D	fast-SIM-LVI	IL3,32,,5.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:15 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,2.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:32 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,1.0ng/mL lot# 1	WG1927083,,ical	5/21/2024 12:48 pm
12	ICV.D	fast-SIM-LVI	ng/mL lot #10475		5/21/2024 1:05 pm
13	insblk.D	fast-SIM-LVI			5/21/2024 1:21 pm
14	TUNEa.D	DFTPPRVT.M	TUNEa	WG1927083,,ical	5/22/2024 1:16 pm
15	IL10a.D	fast-SIM-LVI	IL10,32,,5000.0ng/mL lo	WG1927083,,ical	5/22/2024 1:32 pm
16	ICVa.D	fast-SIM-LVI	CQICV,32,,1000.0ng/mL l	WG1927083,,ical	5/22/2024 1:49 pm
17	insblka.D	fast-SIM-LVI			5/22/2024 2:05 pm

Dep.: GCMS
Inst: SV120
Date: **06/17/24**
Run:

Method
GC: 8270 SIM

Seq: WG1935125

Vial	Data File	Sample	ICAL	notes	initials
48	deg0617	wg-1,32,, dftpp SV120 lot#10809	21160		
49	ccv0617	wg-3,32,, ICV10475 0617			
50	blk0617	instrument Blank			
1	934857-1	WG1934857-1,32,,ah			
2	934857-2	WG1934857-2,32,,ah			
3	934857-3	WG1934857-3,32,,ah			
4	33817-01	L2433817-01,32,,R3A,ah			
5	33652-02	L2433652-02,32,,R3A,ah			
6	934767-2	WG1934767/74-2,32,,ah			
7	934767-3	WG1934767/74-3,32,,ah			
8	934767-1	WG1934767/74-1,32,,ah			
9	32371-03	L2432371-03,32,,ah			
10	32371-04	L2432371-04,32,,ah			
11	32594-01	L2432594-01,32,,ah			
12	32594-02	L2432594-02,32,,ah			
13	32594-03	L2432594-03,32,,ah			
14	32594-04	L2432594-04,32,,ah			
15	32594-05	L2432594-05,32,,ah			
16	32594-06	L2432594-06,32,,ah			
17	32594-07	L2432594-07,32,,ah			
18	319-01d1	L2432319-01d,32,5,ah			
19	4089-6d1	WG1934089-6d,32,5,ah			
20	4089-7d1	WG1934089-7d,32,5,ah			
21	32633-01	L2432633-01,32,,ah			
22	32633-02	L2432633-02,32,,ah			
23	32633-03	L2432633-03,32,,ah			
24	32633-04	L2432633-04,32,,ah			
25	32791-34	L2432791-34,32,,ah			
26	934897-2	WG1934897-2,32,,ah			
27	934897-3	WG1934897-3,32,,ah			
28	934897-1	WG1934897-1,32,,ah			
29	32784-01	L2432784-01,32,,ah			
30	32784-03	L2432784-03,32,,ah			
31	934897-4	WG1934897-4,32,,ah			
32	934897-5	WG1934897-5,32,,ah			
33	32784-04	L2432784-04,32,,ah			
34	32784-05	L2432784-05,32,,ah			
35	32784-06	L2432784-06,32,,ah			
36	32784-07	L2432784-07,32,,ah			
37	32784-08	L2432784-08,32,,ah			
38	32784-09	L2432784-09,32,,ah			

Dep.: GCMS
Inst: SV120
Date: **06/17/24**
Run:

Method
GC: 8270 SIM

Seq: WG1935125

39	32784-10	L2432784-10,32,,ah
40	32784-11	L2432784-11,32,,ah

Analysis log File

Total Files Reported in Log : 41
Log Generated From Directory: I:\8270SIM\sv120\240618RVT\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	deg0618.D	DFTPPRVT.M	WG1935718-5,32,, dftpp	WG1935718,,ical21160	6/18/2024 6:57 am
2	ccv0618.D	fast-SIM-LVI	WG1935718-3,32,, ICV104	WG1935718,,ical21160	6/18/2024 7:13 am
3	blk0618.D	fast-SIM-LVI			6/18/2024 7:30 am
4	935335-1.D	fast-SIM-LVI	WG1935335-1,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 7:52 am
5	935335-2.D	fast-SIM-LVI	WG1935335-2,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 8:09 am
6	32784-12.D	fast-SIM-LVI	L2432784-12,32,,ah	WG1935718,WG1934897,ical21160	6/18/2024 8:25 am
7	32814-17.D	fast-SIM-LVI	L2432814-17,32,,ah	WG1935718,WG1934897,ical21160	6/18/2024 8:42 am
8	32814-21.D	fast-SIM-LVI	L2432814-21,32,,ah	WG1935718,WG1934897,ical21160	6/18/2024 8:58 am
9	935335-3.D	fast-SIM-LVI	WG1935335-3,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 9:14 am
10	934930-1.D	fast-SIM-LVI	ah	930,ical21160	6/18/2024 9:30 am
11	934930-2.D	fast-SIM-LVI	ah	930,ical21160	6/18/2024 9:47 am
12	934930-3.D	fast-SIM-LVI	ah	930,ical21160	6/18/2024 10:03 am
13	33160-01.D	fast-SIM-LVI	L2433160-01,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 10:19 am
14	33160-02.D	fast-SIM-LVI	L2433160-02,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 10:36 am
15	32996-05.D	fast-SIM-LVI	L2432996-05,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 10:52 am
16	32996-06.D	fast-SIM-LVI	L2432996-06,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 11:08 am
17	33035-01.D	fast-SIM-LVI	L2433035-01,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 11:24 am
18	33035-02.D	fast-SIM-LVI	L2433035-02,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 11:41 am
19	33035-03.D	fast-SIM-LVI	L2433035-03,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 11:57 am
20	934857-4.D	fast-SIM-LVI	WG1934857-4,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 12:13 pm
21	934857-5.D	fast-SIM-LVI	WG1934857-5,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 12:30 pm
22	33035-04.D	fast-SIM-LVI	L2433035-04,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 12:46 pm
23	33035-05.D	fast-SIM-LVI	L2433035-05,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 1:02 pm
24	33035-06.D	fast-SIM-LVI	L2433035-06,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 1:18 pm
25	33035-07.D	fast-SIM-LVI	L2433035-07,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 1:35 pm
26	33035-08.D	fast-SIM-LVI	L2433035-08,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 1:51 pm
27	33035-09.D	fast-SIM-LVI	L2433035-09,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 2:07 pm
28	33035-10.D	fast-SIM-LVI	L2433035-10,32,,ah	WG1935718,WG1934857,ical21160	6/18/2024 2:24 pm
29	33789-01.D	fast-SIM-LVI	L2433789-01,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 2:40 pm
30	33789-02.D	fast-SIM-LVI	L2433789-02,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 2:56 pm
31	33789-03.D	fast-SIM-LVI	L2433789-03,32,,ah	WG1935718,WG1935335,ical21160	6/18/2024 3:13 pm
32	32811-01.D	fast-SIM-LVI	ah	930,ical21160	6/18/2024 3:29 pm
33	33154-09.D	fast-SIM-LVI	L2433154-09,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 3:45 pm
34	33154-10.D	fast-SIM-LVI	L2433154-10,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 4:02 pm
35	33154-11.D	fast-SIM-LVI	L2433154-11,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 4:18 pm
36	33154-12.D	fast-SIM-LVI	L2433154-12,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 4:34 pm
37	33154-13.D	fast-SIM-LVI	L2433154-13,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 4:51 pm
38	33154-14.D	fast-SIM-LVI	L2433154-14,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 5:07 pm
39	33154-15.D	fast-SIM-LVI	L2433154-15,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 5:23 pm
40	33420-01.D	fast-SIM-LVI	L2433420-01,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 5:39 pm
41	33420-02.D	fast-SIM-LVI	L2433420-02,32,,rp	WG1935718,WG1935546,ical21160	6/18/2024 5:56 pm

Analysis log File

Total Files Reported in Log : 28
Log Generated From Directory: I:\8270SIM\sv120\240619RVT\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	deg0619.D	DFTPPRVT.M	WG1936395-5,32,, dftpp	WG1936395,,ical21160	6/19/2024 7:50 am
2	ccv0619.D	fast-SIM-LVI	WG1936395-3,32,, ICV104	WG1936395,,ical21160	6/19/2024 9:00 am
3	blk0619.D	fast-SIM-LVI			6/19/2024 9:23 am
4	dcmblnk1.D	fast-SIM-LVI	REP1		6/19/2024 9:39 am
5	dcmblnk2.D	fast-SIM-LVI	REP1		6/19/2024 9:56 am
6	dcmblnk3.D	fast-SIM-LVI	REP2		6/19/2024 10:12 am
7	dcmblnk4.D	fast-SIM-LVI	REP2		6/19/2024 10:28 am
8	935742-1.D	fast-SIM-LVI	WG1935742-1,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 10:44 am
9	935742-2.D	fast-SIM-LVI	WG1935742-2,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 11:00 am
10	935742-3.D	fast-SIM-LVI	WG1935742-3,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 11:17 am
11	34125-01.D	fast-SIM-LVI	L2434125-01,32,,R3B,jjw	WG1936395,WG1935742,ical21160	6/19/2024 11:33 am
12	34125-02.D	fast-SIM-LVI	L2434125-02,32,,R3B,jjw	WG1936395,WG1935742,ical21160	6/19/2024 11:49 am
13	34125-03.D	fast-SIM-LVI	L2434125-03,32,,R3B,jjw	WG1936395,WG1935742,ical21160	6/19/2024 12:05 pm
14	33035-07.D	fast-SIM-LVI	L2433035-07,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 12:22 pm
15	33035-08.D	fast-SIM-LVI	L2433035-08,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 12:38 pm
16	31203-01.D	fast-SIM-LVI	L2431203-01RE,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 12:54 pm
17	31297-07.D	fast-SIM-LVI	L2431297-07RE,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 1:11 pm
18	996-05d1.D	fast-SIM-LVI	L2432996-05,32,RV(surr)	WG1936395,WG1934857,ical21160	6/19/2024 1:27 pm
19	32970-09.D	fast-SIM-LVI	L2432970-09,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 1:43 pm
20	936314-2.D	fast-SIM-LVI	WG1936311-2,32,,jjw	WG1936395,WG1936311,ical21160	6/19/2024 2:00 pm
21	936314-3.D	fast-SIM-LVI	WG1936311-3,32,,jjw	WG1936395,WG1936311,ical21160	6/19/2024 2:16 pm
22	936314-1.D	fast-SIM-LVI	WG1936311-1,32,,jjw	WG1936395,WG1936311,ical21160	6/19/2024 2:32 pm
23	33316-01.D	fast-SIM-LVI	L2433316-01,32,,R3B,jjw	WG1936395,WG1936311,ical21160	6/19/2024 2:49 pm
24	31167-05.D	fast-SIM-LVI	L2431167-05RE,32,,jjw	WG1936395,WG1935742,ical21160	6/19/2024 3:05 pm
25	936311-4.D	fast-SIM-LVI	jjw	311,ical21160	6/19/2024 3:21 pm
26	936311-5.D	fast-SIM-LVI	jjw	311,ical21160	6/19/2024 3:38 pm
27	22662-21.D	fast-SIM-LVI	jjw	311,ical21160	6/19/2024 3:54 pm
28	31203-02.D	fast-SIM-LVI	RV,jjw	314,ical21160	6/19/2024 4:10 pm

ORGANIC ELN REPORT

Workgroup: WG1934857

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10736AJ,11/06/2024,D1,4,4
Spike Type: ABN-SIM **Lot #:** 10737,103124, 10738, 083024
Spike Verify by: RSN/DLP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432996-05 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2432996-06 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-01 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-02 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:19	Victor Kono	1	H
L2433035-03 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-04 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-05 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H

Reported: 29-JUN-24 10:34 AM

ORGANIC ELN REPORT

Workgroup: WG1934857

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2433035-06 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-07 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-08 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:01	Victor Kono	1	H
L2433035-09 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433035-10 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433160-01 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433160-02 SAMP	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1		06/16/24 17:41	Victor Kono	1	H
L2433652-02 SAMP	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H
L2433817-01 SAMP	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H
WG1934857-1 BLANK	06/15/24 15:46 **WG1934854**	Richard Nyarko	100	<2, >12	.1		06/15/24 22:49	Victor Kono	1	H

Reported: 29-JUN-24 10:34 AM

ORGANIC ELN REPORT

Workgroup: WG1934857

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1934857-2 LCS	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1	.1	06/15/24 22:49	Victor Kono	1	H
WG1934857-3 LCSD	06/15/24 15:46	Richard Nyarko	100	<2, >12	.1	.1	06/15/24 22:49	Victor Kono	1	H
WG1934857-4 MS	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1	.1	06/16/24 17:01	Victor Kono	1	H
WG1934857-5 MSD	06/16/24 08:28	Dayle Parsons	100	<2,>12	.1	.1	06/16/24 17:01	Victor Kono	1	H

ORGANIC ELN REPORT

Workgroup: WG1935742

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10808ag,10/31/2024,d1,7,2
Spike Type: ABN-SIM **Lot #:** 10737-103124,10738-083024
Spike Verify by: NBD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH051124

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2431167-05 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2431203-01 WATER	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2431297-07 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2432970-09 WATER	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
L2433035-07 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H
L2433035-08 SAMP	06/19/24 00:40	Annabella Sarfo	100	<2, >12	.1		06/19/24 03:10	Alaina Ohara-Cruz	1	H

Reported: 29-JUN-24 10:34 AM

ORGANIC ELN REPORT

Workgroup: WG1935742

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434125-01 WATER	06/18/24 08:26	Nicholas Dunn	55	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
	LIM VOL DUE TO SEDIMENT									
L2434125-02 WATER	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
L2434125-03 WATER	06/18/24 08:26	Nicholas Dunn	75	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
	LIM VOL DUE TO SEDIMENT									
WG1935742-1 BLANK	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1		06/18/24 17:52	Kostandina Witham	1	H
	WG1935741									
WG1935742-2 LCS	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1	.1	06/18/24 17:52	Kostandina Witham	1	H
WG1935742-3 LCSD	06/18/24 08:26	Nicholas Dunn	100	<2, >12	.1	.1	06/18/24 17:52	Kostandina Witham	1	H

Reported: 29-JUN-24 10:34 AM

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-8S (L2433035-01)	35	--	--	--	--	--	0
MW-8D (L2433035-02)	32	--	--	--	--	--	0
MW-1SR (L2433035-03)	37	--	--	--	--	--	0
MW-1DR2 (L2433035-04)	37	--	--	--	--	--	0
MP-1 (L2433035-05)	41	--	--	--	--	--	0
MP-1D (L2433035-06)	38	--	--	--	--	--	0
PZ-6 (L2433035-07)	40	--	--	--	--	--	0
MW-6D (L2433035-08)	43	--	--	--	--	--	0
EB_06122024 (L2433035-09)	39	--	--	--	--	--	0
DUP_06122024 (L2433035-10)	41	--	--	--	--	--	0
WG1935958-1BLANK	30	--	--	--	--	--	0
WG1935958-2LCS	31	--	--	--	--	--	0
WG1935958-3LCSD	31	--	--	--	--	--	0
MW-1SRMS	36	--	--	--	--	--	0
MW-1SRMSD	39	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-1,4-DIOXANE-SIM

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935958-2 **Analysis Date :** 06/19/24 10:28	**File ID**	: F606192404
LCSD Sample ID	: WG1935958-3 **Analysis Date :** 06/19/24 10:50	**File ID**	: F606192405

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	**5000**	**6350**	**127**	**5000**	**6430**	**128**	**1**	**40-140**	**30**

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/19/24 14:55
Matrix Spike	: WG1935958-4	**MS Analysis Date**	: 06/19/24 15:17
Matrix Spike Dup	: WG1935958-5	**MSD Analysis Date**	: 06/19/24 15:40

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ng/l)**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	ND	5000	6260	125	5100	6300	123	1	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935958-1	**Lab File ID**	: F606192403
Instrument ID	: GCMS6	**Extraction Date**	: 06/18/24
Matrix	: WATER	**Analysis Date**	: 06/19/24 10:07
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1935958-2LCS	WG1935958-2	06/19/24 10:28
WG1935958-3LCSD	WG1935958-3	06/19/24 10:50
MW-8D	L2433035-02	06/19/24 14:32
MW-1SR	L2433035-03	06/19/24 14:55
MW-1SRMS	WG1935958-4	06/19/24 15:17
MW-1SRMSD	WG1935958-5	06/19/24 15:40
MW-1DR2	L2433035-04	06/19/24 16:05
MP-1	L2433035-05	06/19/24 16:29
MP-1D	L2433035-06	06/19/24 16:52
PZ-6	L2433035-07	06/19/24 17:15
MW-6D	L2433035-08	06/19/24 17:38
EB_06122024	L2433035-09	06/19/24 18:01
DUP_06122024	L2433035-10	06/19/24 18:24
MW-8S	L2433035-01	06/19/24 19:09

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 06/17/24 16:20
Tune Standard	: R1842278-1	**Tune File ID**	: F606172401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	28.6
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	24.3
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than 24% of mass 442	15.2
442	Base Peak, or >50% of mass 198	57.2
443	15.0 - 24.0% of mass 442	10.9 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1842278-2	F606172402	06/17/24 16:53
STD 50	R1842278-3	F606172403	06/17/24 17:14
STD 100	R1842278-4	F606172404	06/17/24 17:35
STD 500	R1842278-5	F606172405	06/17/24 17:56
STD 1000	R1842278-7	F606172406	06/17/24 18:17
STD 5000	R1842278-6	F606172407	06/17/24 18:38
STD 10000	R1842278-8	F606172408	06/17/24 18:59
ICV Quant Report	R1842278-9	F606172409	06/17/24 19:20

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 06/19/24 09:02
Tune Standard	: WG1936422-1	**Tune File ID**	: F606192401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	25.9
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	26.4
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	15.5
442	Base Peak, or >50% of mass 198	61.6
443	15.0 - 24.0% of mass 442	11.9 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1936422-2CCAL	WG1936422-2	F606192402	06/19/24 09:40
WG1935958-1BLANK	WG1935958-1	F606192403	06/19/24 10:07
WG1935958-2LCS	WG1935958-2	F606192404	06/19/24 10:28
WG1935958-3LCSD	WG1935958-3	F606192405	06/19/24 10:50
MW-8D	L2433035-02	F606192415	06/19/24 14:32
MW-1SR	L2433035-03	F606192416	06/19/24 14:55
WG1935958-4MS	WG1935958-4	F606192417	06/19/24 15:17
WG1935958-5MSD	WG1935958-5	F606192418	06/19/24 15:40
MW-1DR2	L2433035-04	F606192419	06/19/24 16:05
MP-1	L2433035-05	F606192420	06/19/24 16:29
MP-1D	L2433035-06	F606192421	06/19/24 16:52
PZ-6	L2433035-07	F606192422	06/19/24 17:15
MW-6D	L2433035-08	F606192423	06/19/24 17:38
EB_06122024	L2433035-09	F606192424	06/19/24 18:01
DUP_06122024	L2433035-10	F606192425	06/19/24 18:24
MW-8S	L2433035-01	F606192427	06/19/24 19:09

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GCMS6	**Analysis Date**	: 06/19/24 09:40:00
Sample No	: WG1936422-2	**Lab File ID**	: F606192402

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1936422-2	72312	8.11				
Upper Limit	144624	8.61				
Lower Limit	36156	7.61				
Sample ID						
WG1935958-1 BLANK	50124	8.11				
WG1935958-2 LCS	53134	8.11				
WG1935958-3 LCSD	53956	8.11				
MW-8D	61281	8.12				
MW-1SR	62761	8.12				
MW-1SR MS	60242	8.12				
MW-1SR MSD	62533	8.13				
MW-1DR2	68770	8.13				
MP-1	60628	8.12				
MP-1D	58002	8.12				
PZ-6	60669	8.12				
MW-6D	60658	8.12				
EB_06122024	59412	8.12				
DUP_06122024	58594	8.12				
MW-8S	58009	8.11				

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

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

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

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

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

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

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:09
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192427	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	142	32.0	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:32
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192415	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	109.	142	32.0	J

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:55
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192416	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:05
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192419	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	307.	142	32.0	

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:29
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192420	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	142	32.0	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:52
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192421	**Analyst**	: CSP
Sample Amount	: 275 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	164.	136	30.8	

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:15
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192422	**Analyst**	: CSP
Sample Amount	: 240 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	156	35.3	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:38
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192423	**Analyst**	: CSP
Sample Amount	: 200 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	188	42.4	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:01
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192424	**Analyst**	: CSP
Sample Amount	: 255 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	147	33.2	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:24
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192425	**Analyst**	: CSP
Sample Amount	: 265 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	308.	142	32.0	

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935958-1	**Date Collected**	: NA
Client ID	: WG1935958-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 10:07
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F606192403	**Analyst**	: CSP
Sample Amount	: 250 ml	**Instrument ID**	: GCMS6
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192415.D
Acq On : 19 Jun 2024 2:32 pm
Operator : GCMS6:CSP
Sample : l2433035-02,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 09:27:16 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.147	64	7836	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.118	152	61281	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.147	64	7799	160.863	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 32.17%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.200	88	237M7	11.551	ng/mL	

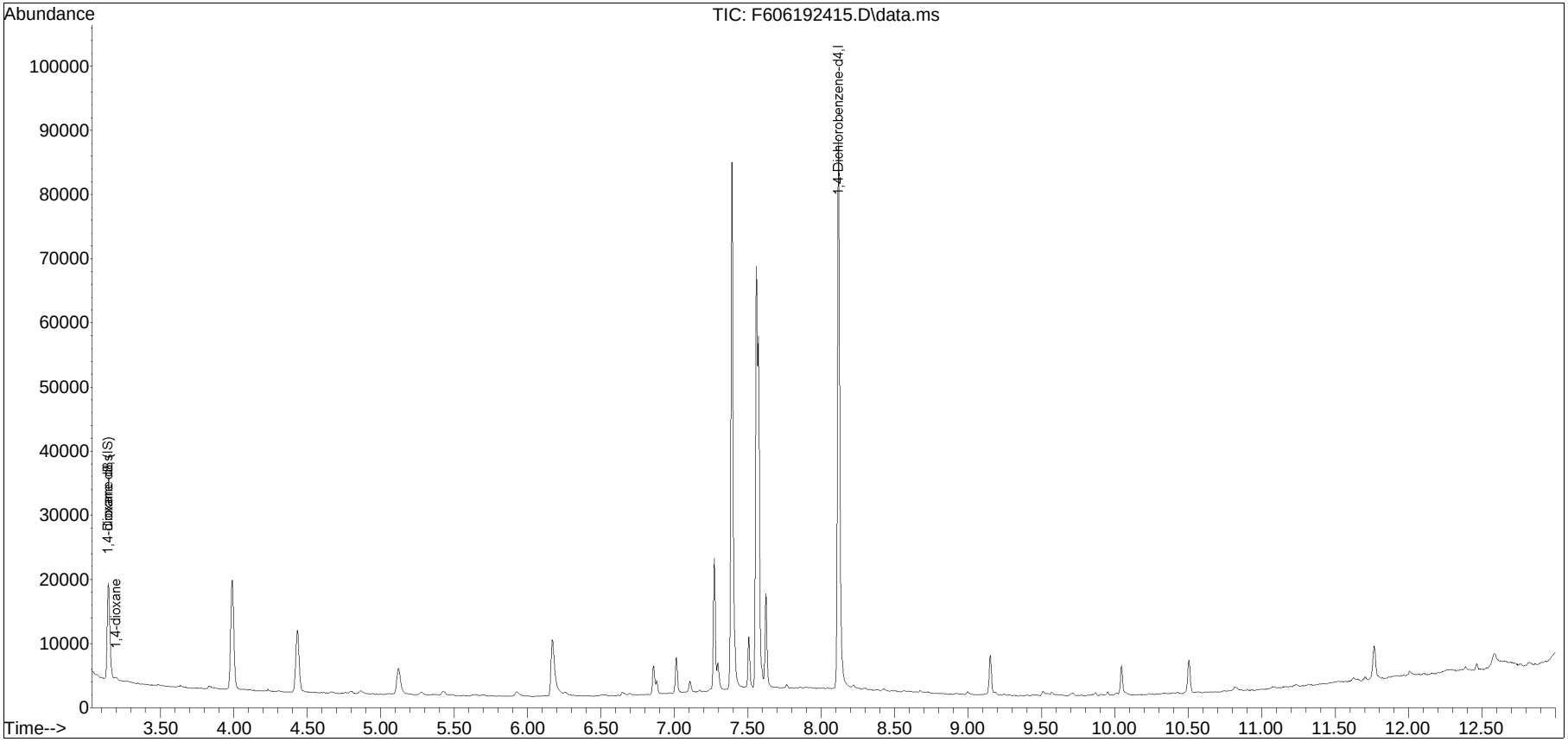
(#) = qualifier out of range (m) = manual integration (+) = signals summed

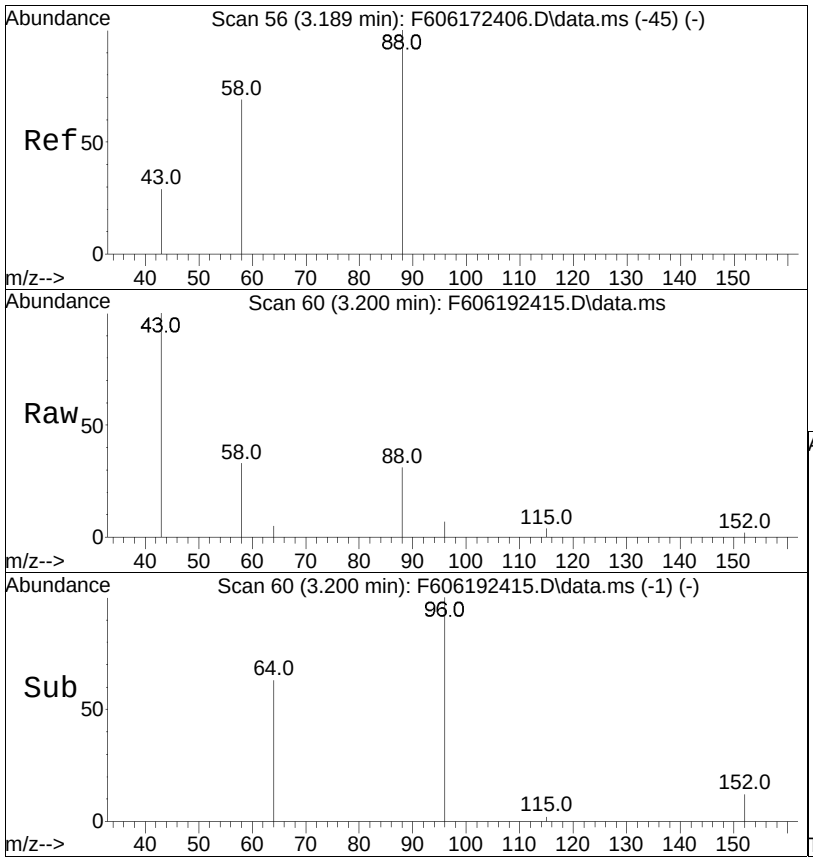
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192415.D
Acq On : 19 Jun 2024 2:32 pm
Operator : GCMS6:CSP
Sample : l2433035-02,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 20 09:27:16 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

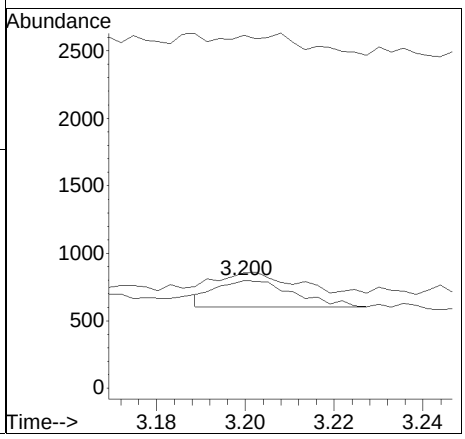




#2
1,4-dioxane
Concen: 11.55 ng/mL M7
RT: 3.200 min Scan# 60
Delta R.T. 0.011 min
Lab File: F606192415.D
Acq: 19 Jun 2024 2:32 pm

Tgt Ion: 88 Resp: 237

Ion	Ratio	Lower	Upper
88	100		
58	65.4	56.9	85.3
43	29.1	24.6	36.8

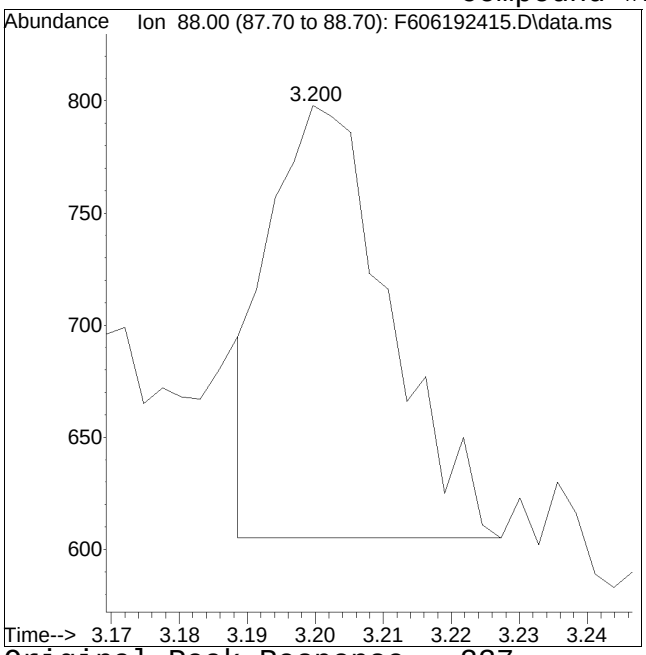


Manual Integration/Negative Proof Report

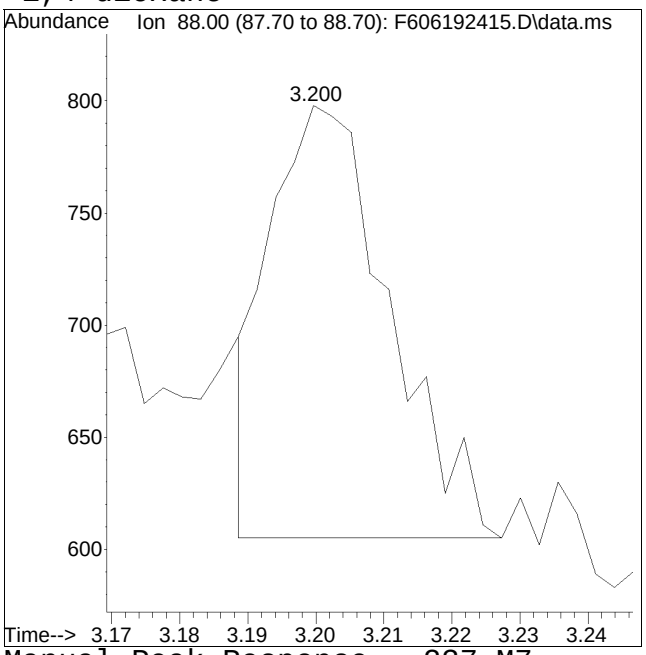
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606192415.D
Date Inj'd : 6/19/2024 2:32 pm
Sample : l2433035-02,32,,

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/20/2024 8:17 am

Compound #2: 1,4-dioxane



Original Peak Response = 237



Manual Peak Response = 237 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192416.D
Acq On : 19 Jun 2024 2:55 pm
Operator : GCMS6:CSP
Sample : l2433035-03,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 08:33:10 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.158	64	9145	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.118	152	62761	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.158	64	9145	184.178	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 36.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

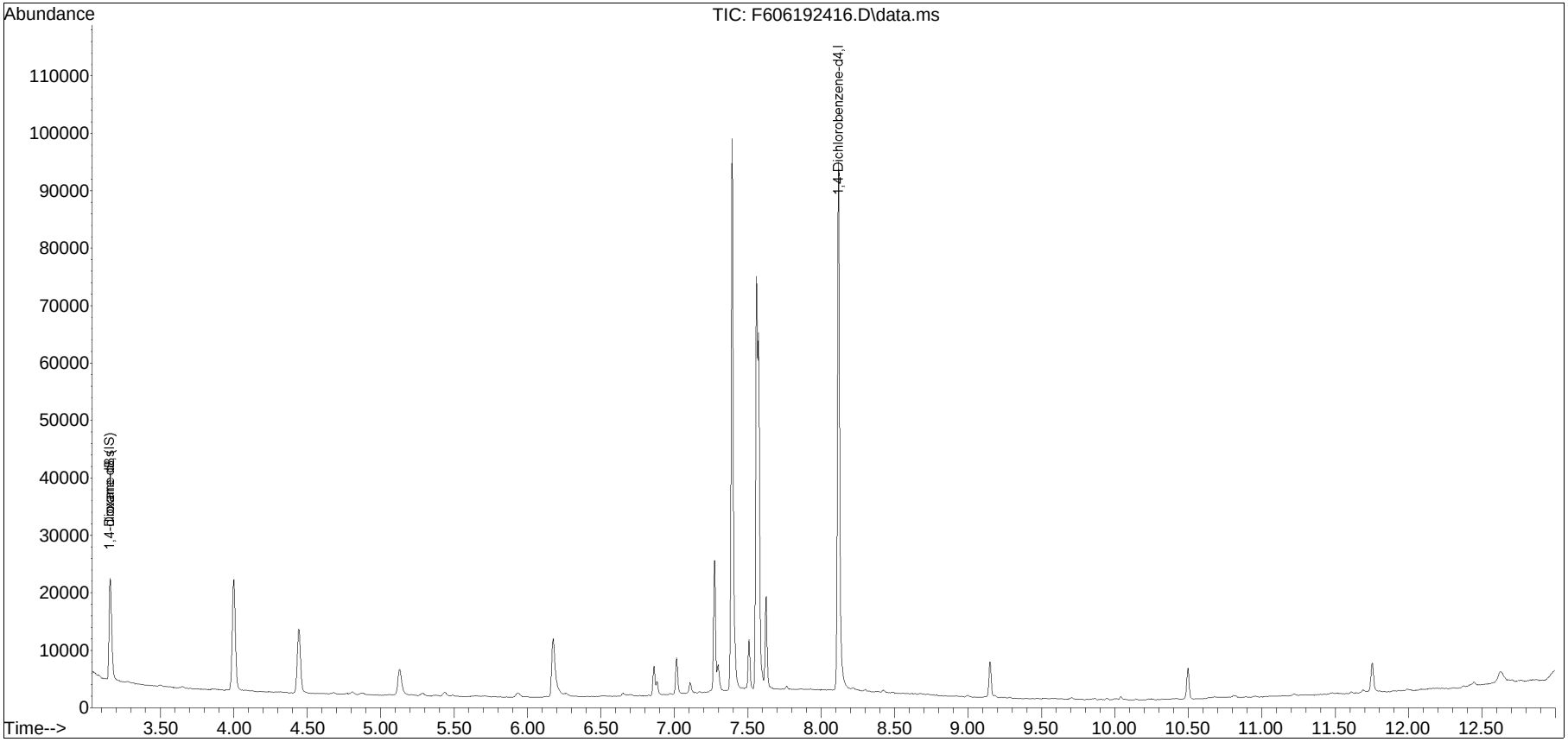
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192416.D
Acq On : 19 Jun 2024 2:55 pm
Operator : GCMS6:CSP
Sample : l2433035-03,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 20 08:33:10 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192416.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 2:55 pm	Instrument	: GCMS 6
Sample	: l2433035-03,32,,	Quant Date	: 6/20/2024 8:17 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192419.D
Acq On : 19 Jun 2024 4:05 pm
Operator : GCMS6:CSP
Sample : l2433035-04,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 20 08:39:14 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.186	64	10144M2	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	8.126	152	68770	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.186	64	10148M2	186.520	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 37.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.241	88	864	32.529	ng/mL	92

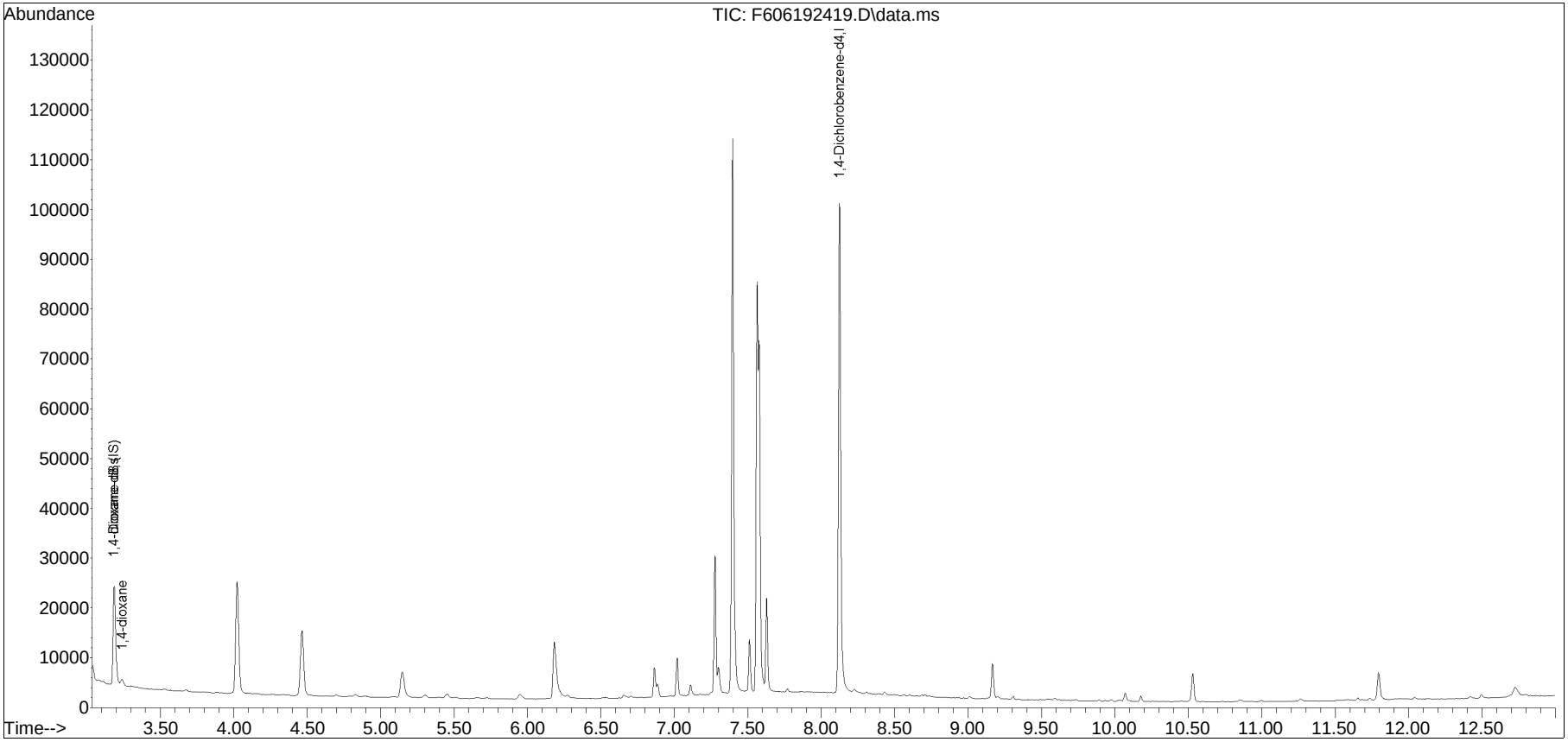
(#) = qualifier out of range (m) = manual integration (+) = signals summed

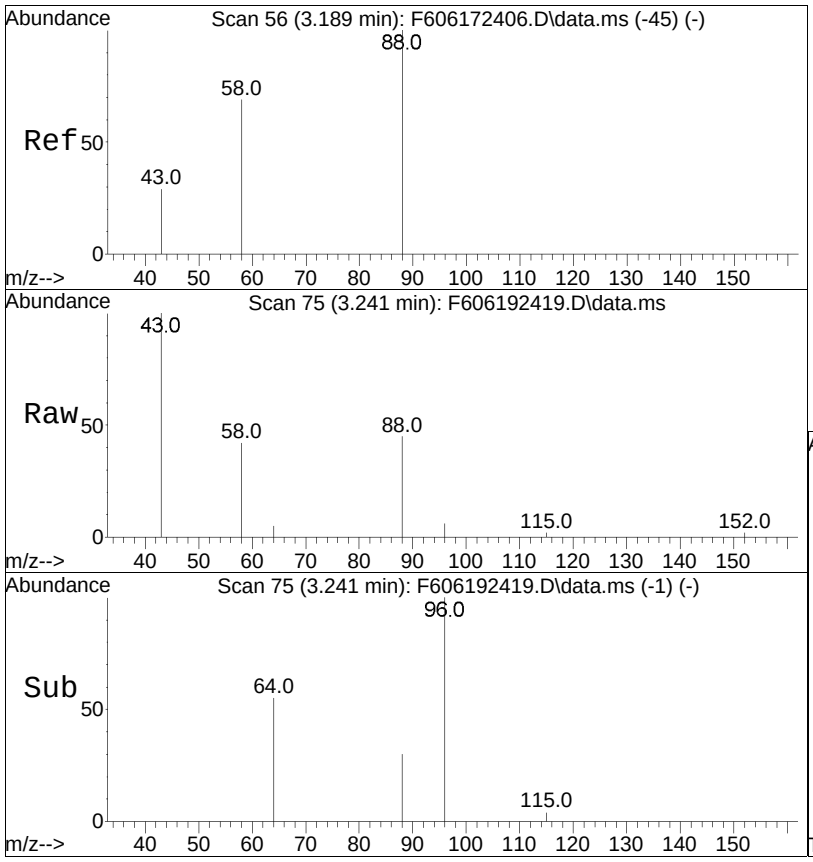
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192419.D
Acq On : 19 Jun 2024 4:05 pm
Operator : GCMS6:CSP
Sample : l2433035-04,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 20 08:39:14 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

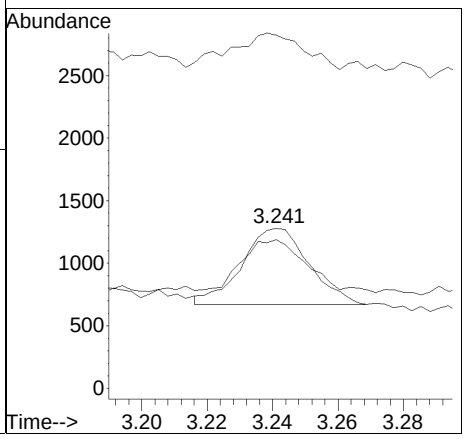




#2
1,4-dioxane
Concen: 32.53 ng/mL
RT: 3.241 min Scan# 75
Delta R.T. 0.052 min
Lab File: F606192419.D
Acq: 19 Jun 2024 4:05 pm

Tgt Ion: 88 Resp: 864

Ion	Ratio	Lower	Upper
88	100		
58	63.9	56.9	85.3
43	33.6	24.6	36.8

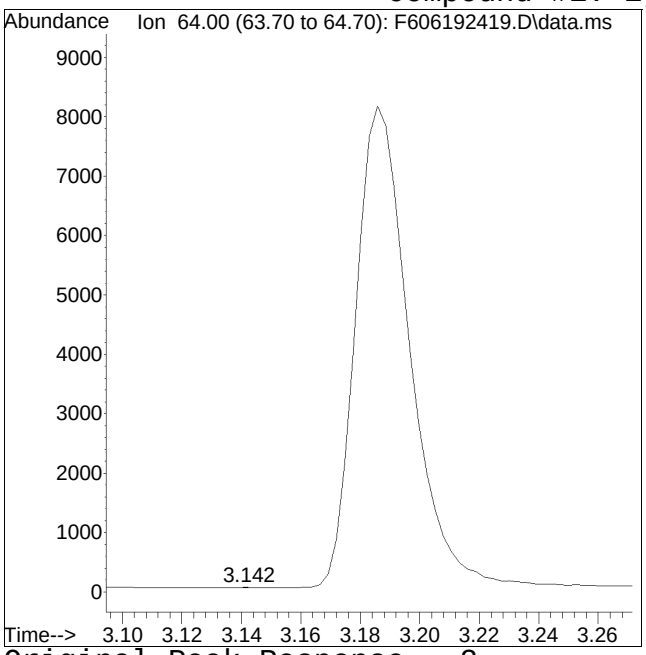


Manual Integration/Negative Proof Report

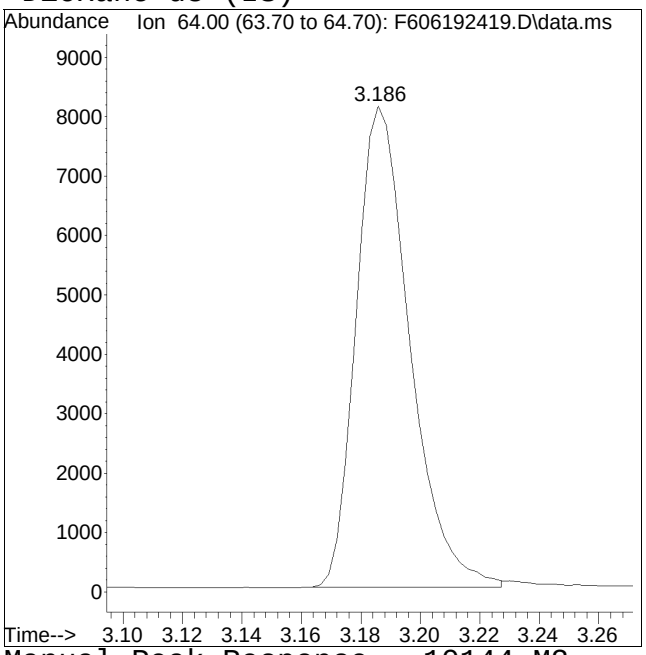
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606192419.D
Date Inj'd : 6/19/2024 4:05 pm
Sample : l2433035-04,32,,

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/20/2024 8:17 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 2



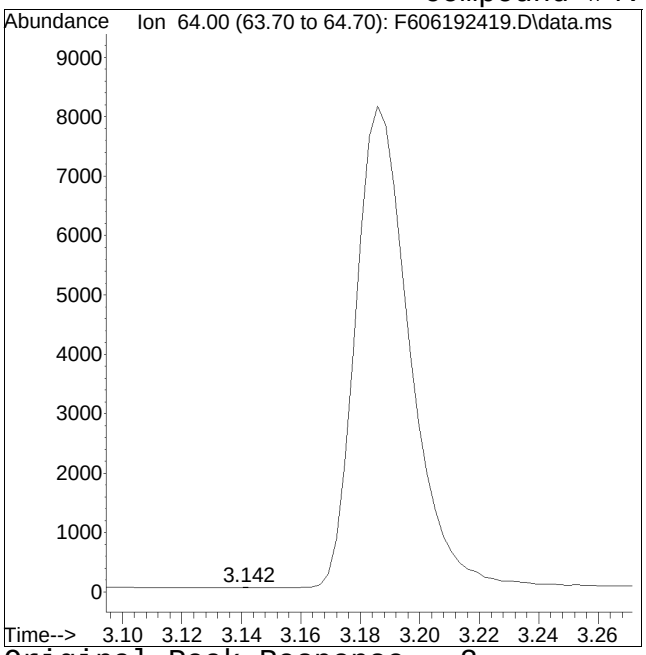
Manual Peak Response = 10144 M2

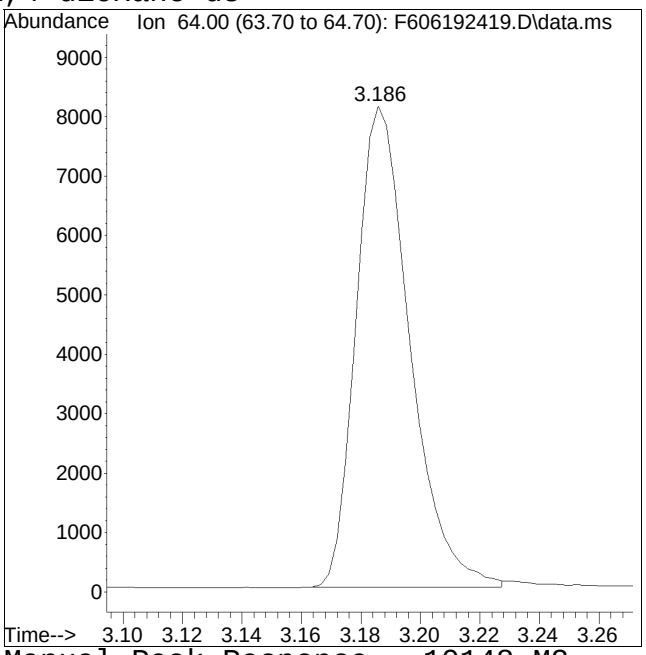
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2024QMethod : 14DIOX0617GCMS6.M
Data File : F606192419.D Operator : GCMS6:CSP
Date Inj'd : 6/19/2024 4:05 pm Instrument : GCMS 6
Sample : l2433035-04,32,, Quant Date : 6/20/2024 8:17 am

Compound #4: 1,4-dioxane-d8





Original Peak Response = 2 Manual Peak Response = 10148 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192420.D
Acq On : 19 Jun 2024 4:29 pm
Operator : GCMS6:CSP
Sample : l2433035-05,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 08:40:14 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.161	64	9827	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.118	152	60628	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.161	64	9827	204.876	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

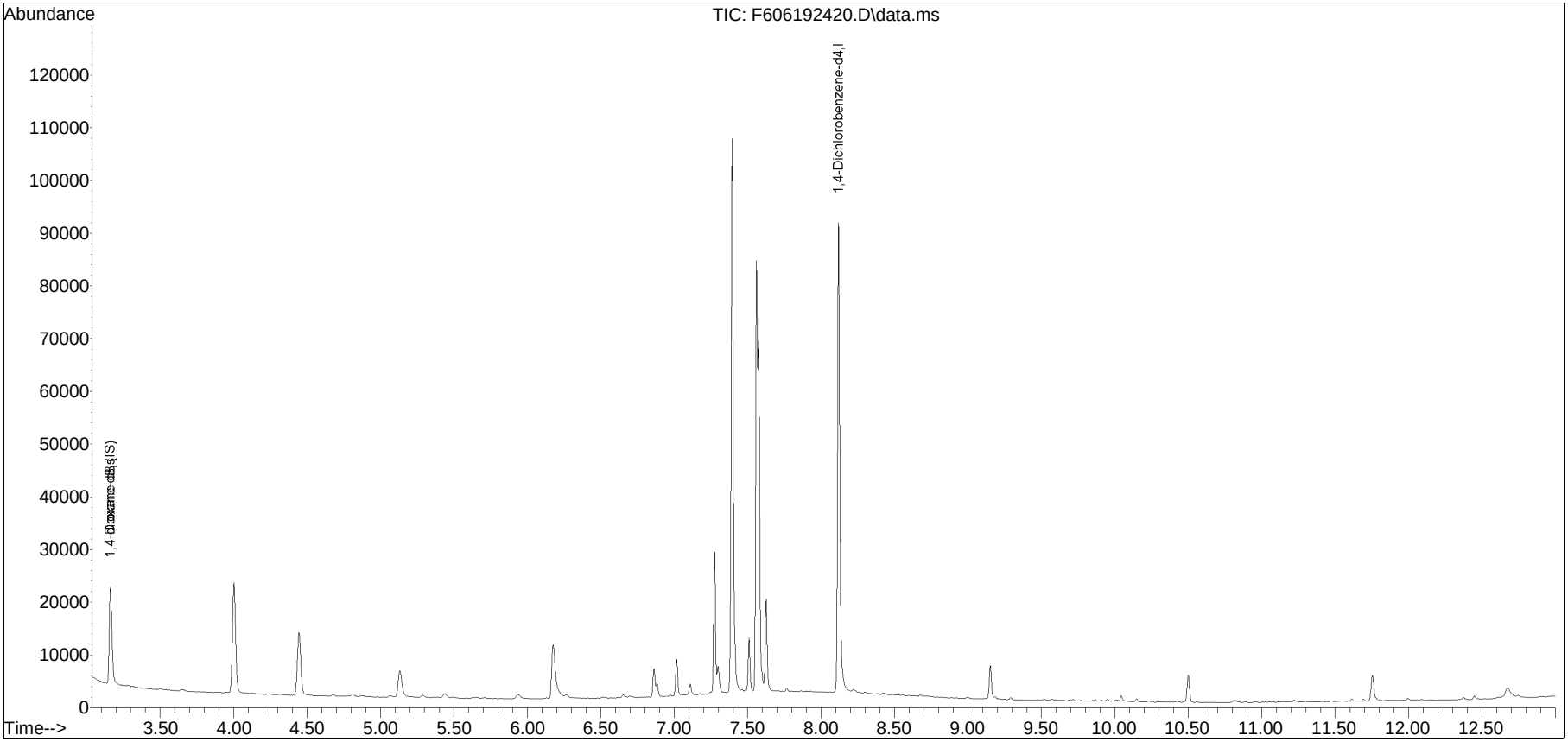
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192420.D
Acq On : 19 Jun 2024 4:29 pm
Operator : GCMS6:CSP
Sample : l2433035-05,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 08:40:14 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192420.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 4:29 pm	Instrument	: GCMS 6
Sample	: l2433035-05,32,,	Quant Date	: 6/20/2024 8:17 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192421.D
Acq On : 19 Jun 2024 4:52 pm
Operator : GCMS6:CSP
Sample : l2433035-06,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 20 09:00:50 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.161	64	8694M2	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.118	152	58002M2	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.161	64	8688M2	189.331	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 37.87%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.214	88	410M2	18.011	ng/mL	

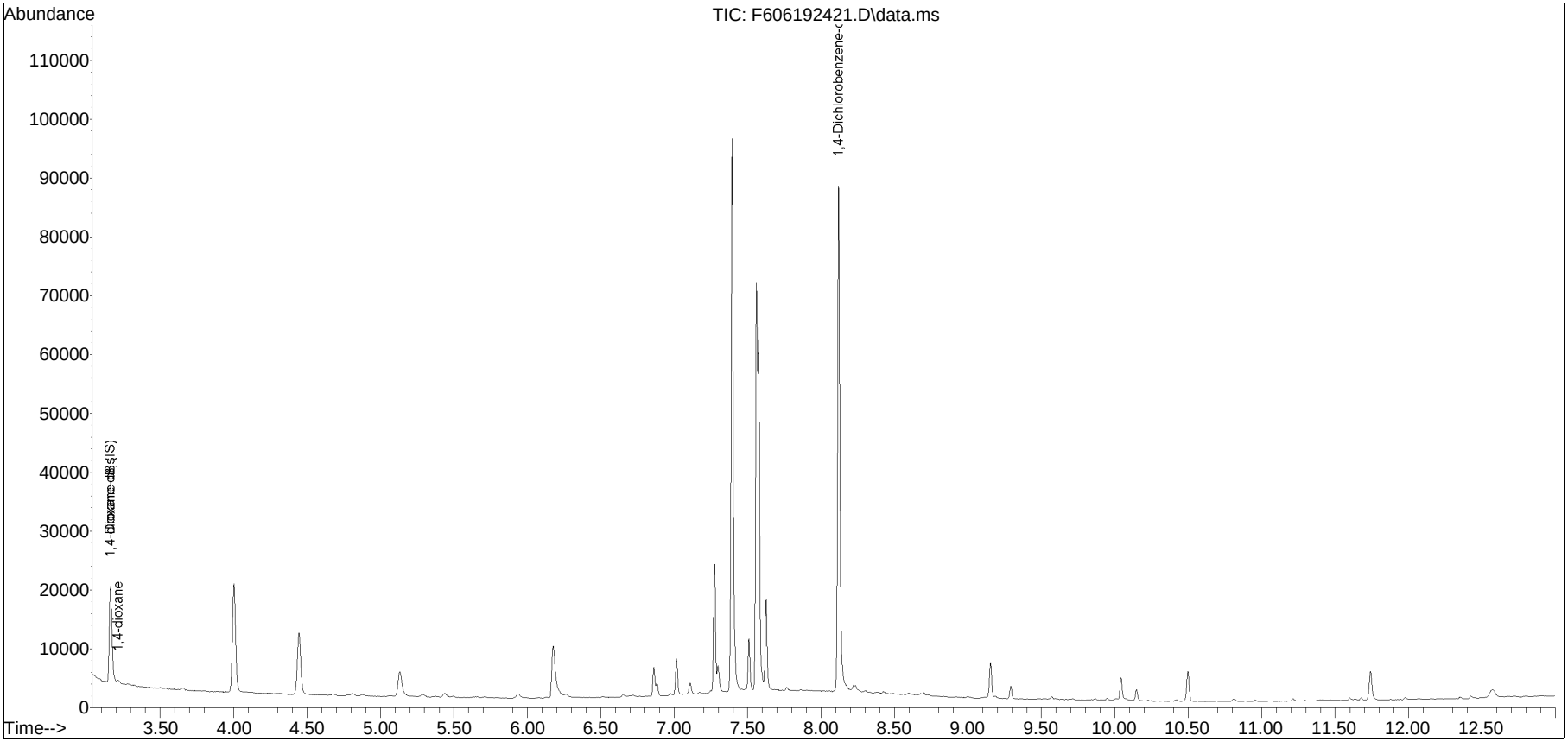
(#) = qualifier out of range (m) = manual integration (+) = signals summed

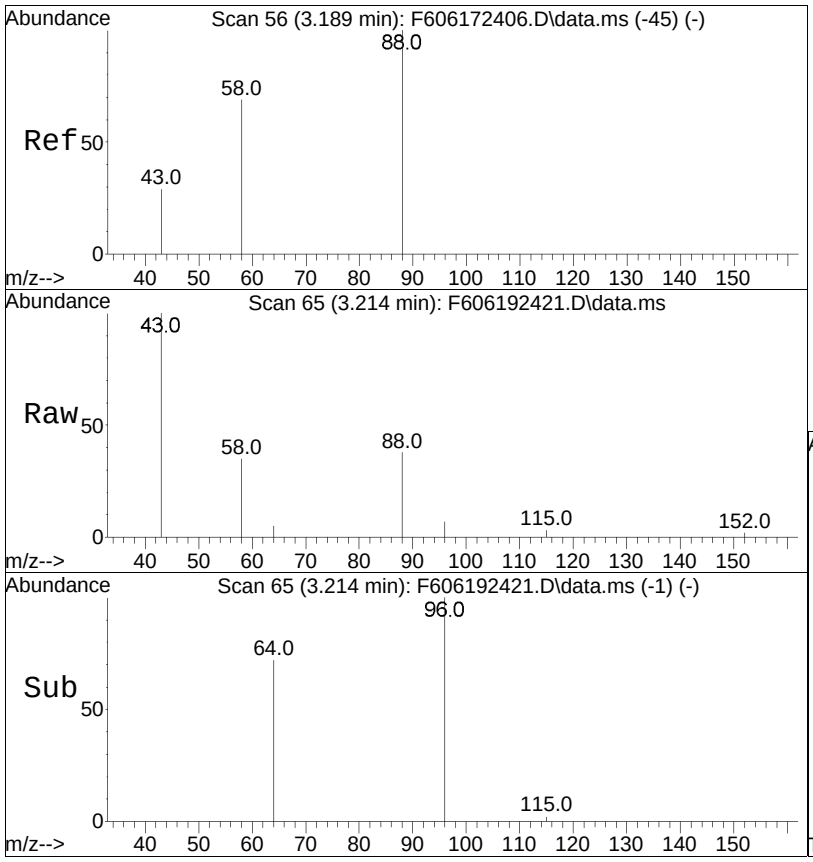
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192421.D
Acq On : 19 Jun 2024 4:52 pm
Operator : GCMS6:CSP
Sample : l2433035-06,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 20 09:00:50 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

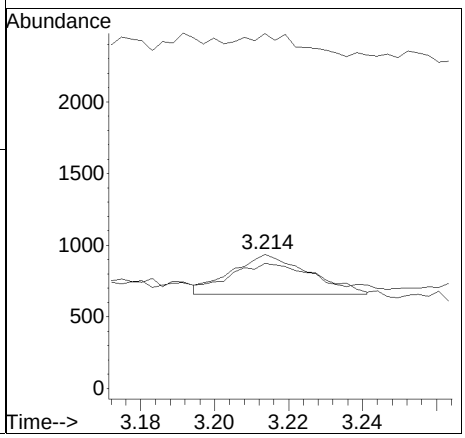




#2
1,4-dioxane
Concen: 18.01 ng/mL M2
RT: 3.214 min Scan# 65
Delta R.T. 0.025 min
Lab File: F606192421.D
Acq: 19 Jun 2024 4:52 pm

Tgt Ion: 88 Resp: 410

Ion	Ratio	Lower	Upper
88	100		
58	61.5	56.9	85.3
43	29.0	24.6	36.8

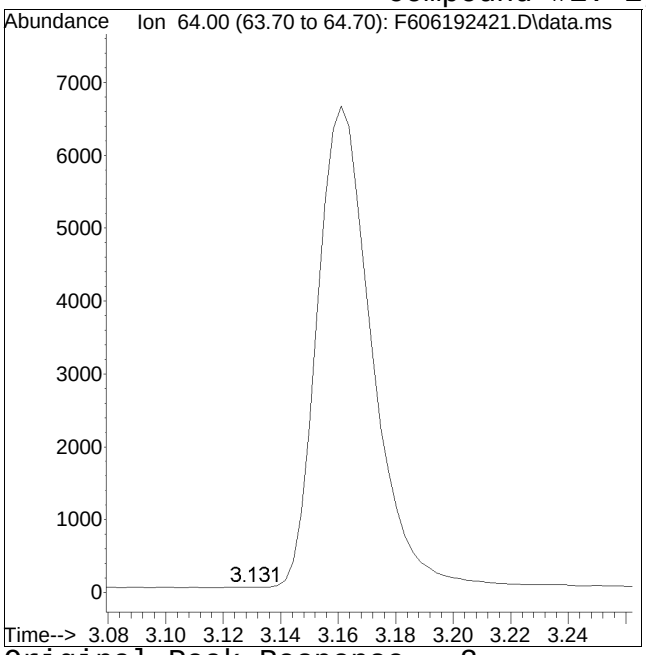


Manual Integration/Negative Proof Report

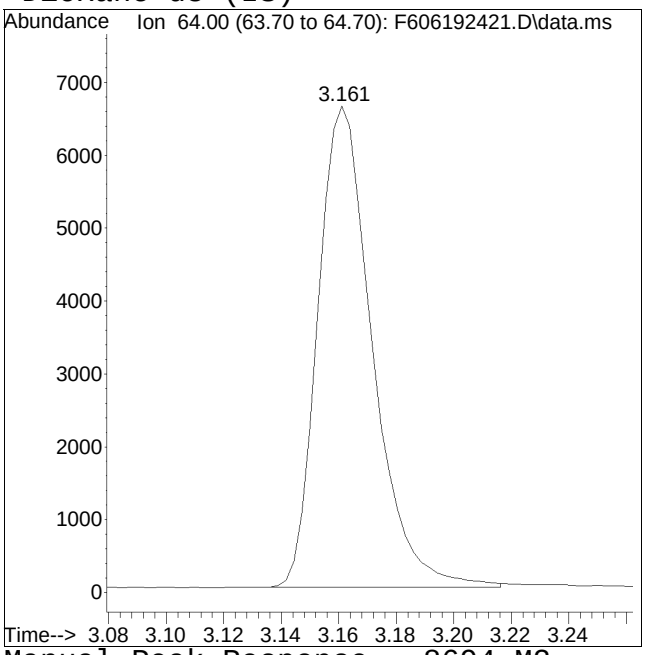
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606192421.D
Date Inj'd : 6/19/2024 4:52 pm
Sample : l2433035-06,32,,

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/20/2024 8:17 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 2



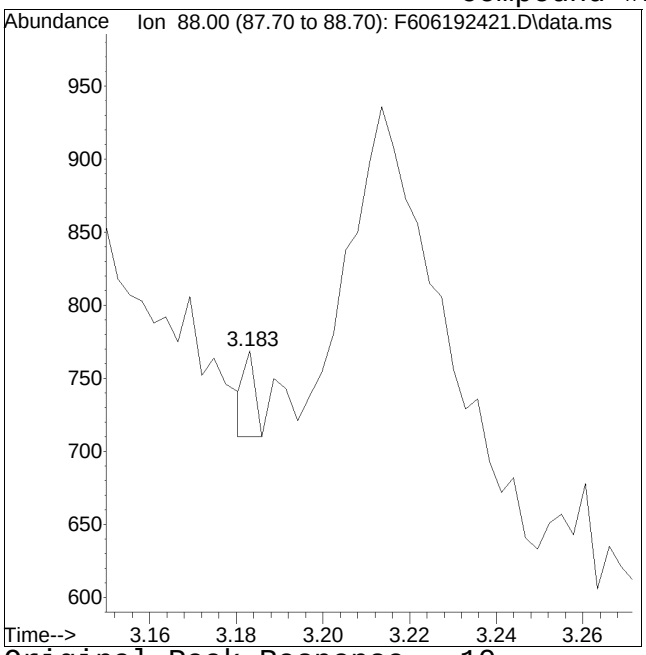
Manual Peak Response = 8694 M2

M2 = Peak not found by automatic integration algorithm.

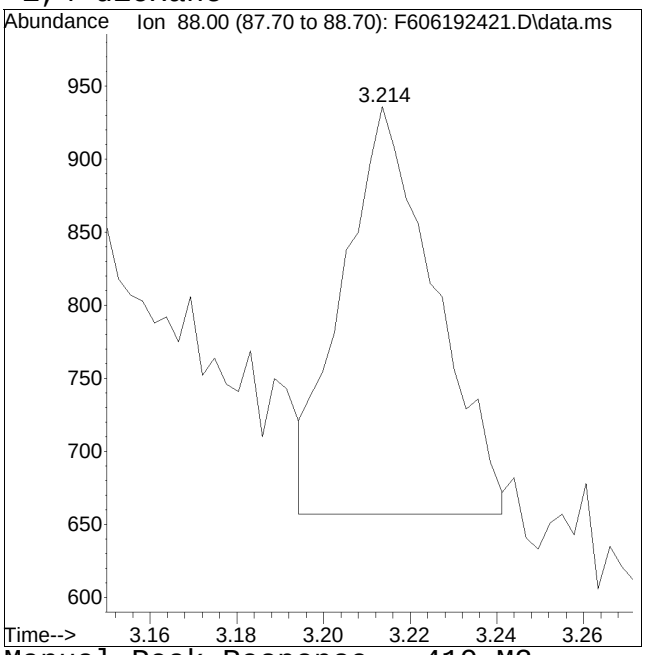
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2024QMethod : 14DIOX0617GCMS6.M
Data File : F606192421.D Operator : GCMS6:CSP
Date Inj'd : 6/19/2024 4:52 pm Instrument : GCMS 6
Sample : l2433035-06,32,, Quant Date : 6/20/2024 8:17 am

Compound #2: 1,4-dioxane



Original Peak Response = 10



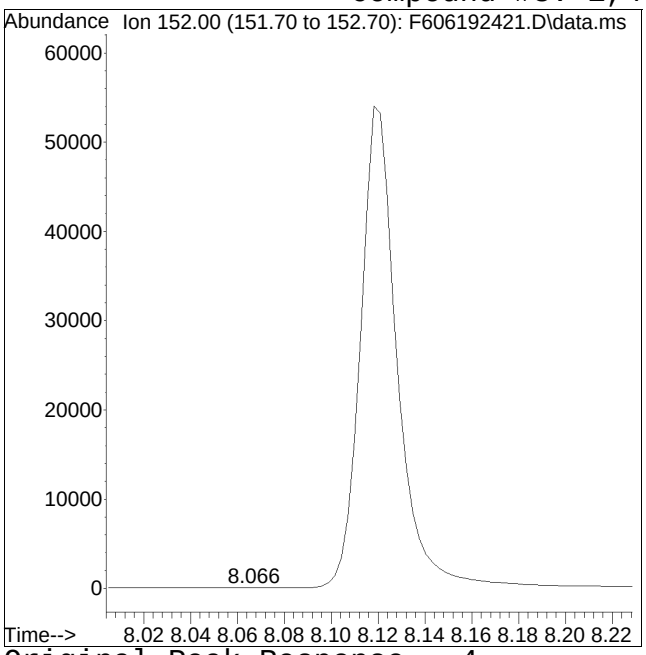
Manual Peak Response = 410 M2

M2 = Peak not found by automatic integration algorithm.

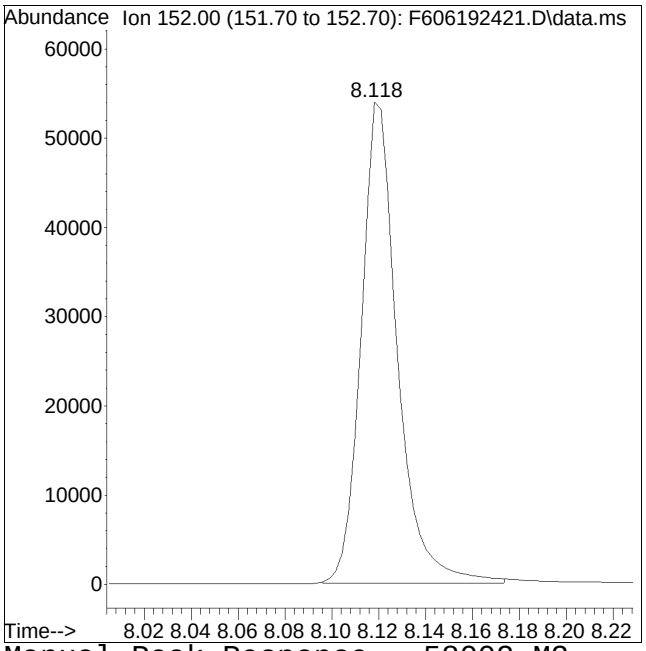
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2024QMethod : 14DIOX0617GCMS6.M
Data File : F606192421.D Operator : GCMS6:CSP
Date Inj'd : 6/19/2024 4:52 pm Instrument : GCMS 6
Sample : l2433035-06,32,, Quant Date : 6/20/2024 8:17 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 4



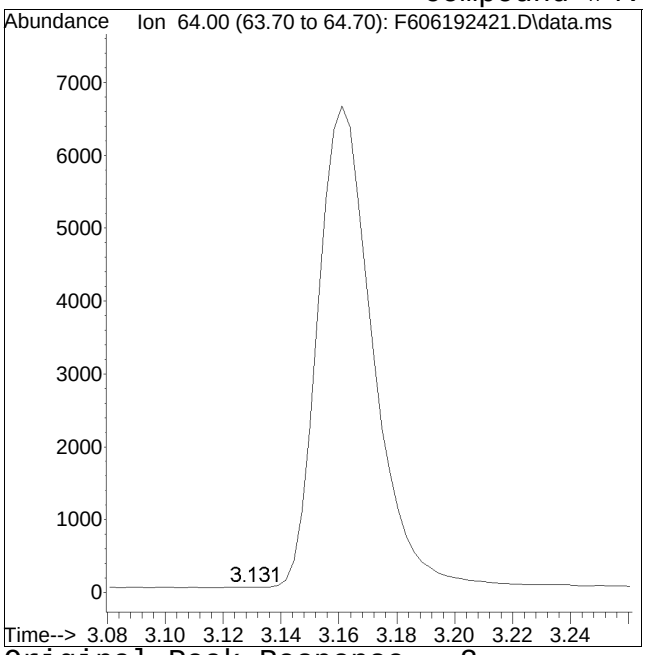
Manual Peak Response = 58002 M2

M2 = Peak not found by automatic integration algorithm.

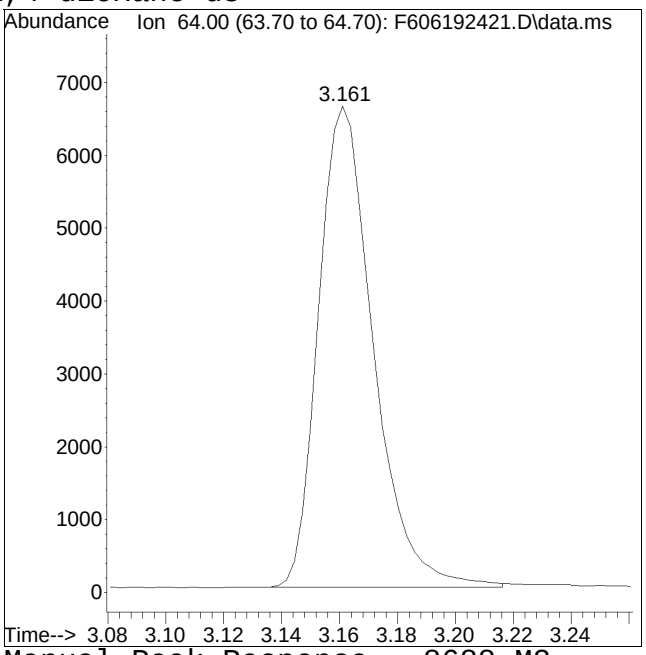
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\GCMS6\2024QMethod : 14DIOX0617GCMS6.M
Data File : F606192421.D Operator : GCMS6:CSP
Date Inj'd : 6/19/2024 4:52 pm Instrument : GCMS 6
Sample : l2433035-06,32,, Quant Date : 6/20/2024 8:17 am

Compound #4: 1,4-dioxane-d8



Original Peak Response = 2



Manual Peak Response = 8688 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192422.D
Acq On : 19 Jun 2024 5:15 pm
Operator : GCMS6:CSP
Sample : l2433035-07,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 20 08:17:38 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.156	64	9564	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.124	152	60669	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.156	64	9564	199.259	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 39.85%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

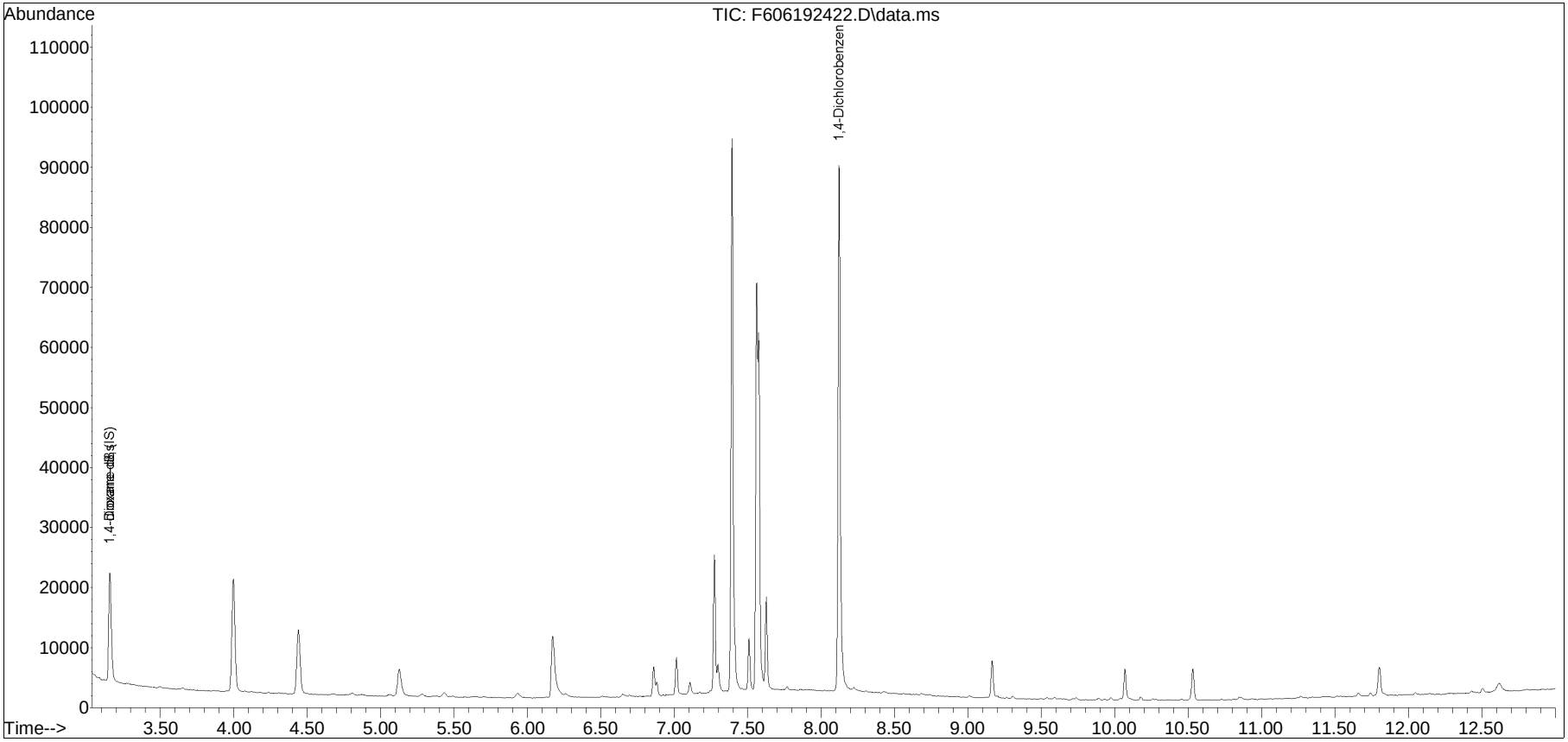
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192422.D
Acq On : 19 Jun 2024 5:15 pm
Operator : GCMS6:CSP
Sample : l2433035-07,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 20 08:17:38 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192422.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 5:15 pm	Instrument	: GCMS 6
Sample	: l2433035-07,32,,	Quant Date	: 6/20/2024 8:17 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192423.D
Acq On : 19 Jun 2024 5:38 pm
Operator : GCMS6:CSP
Sample : l2433035-08,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 20 08:53:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.164	64	10392M2	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.118	152	60658	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.164	64	10392	216.549	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.31%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

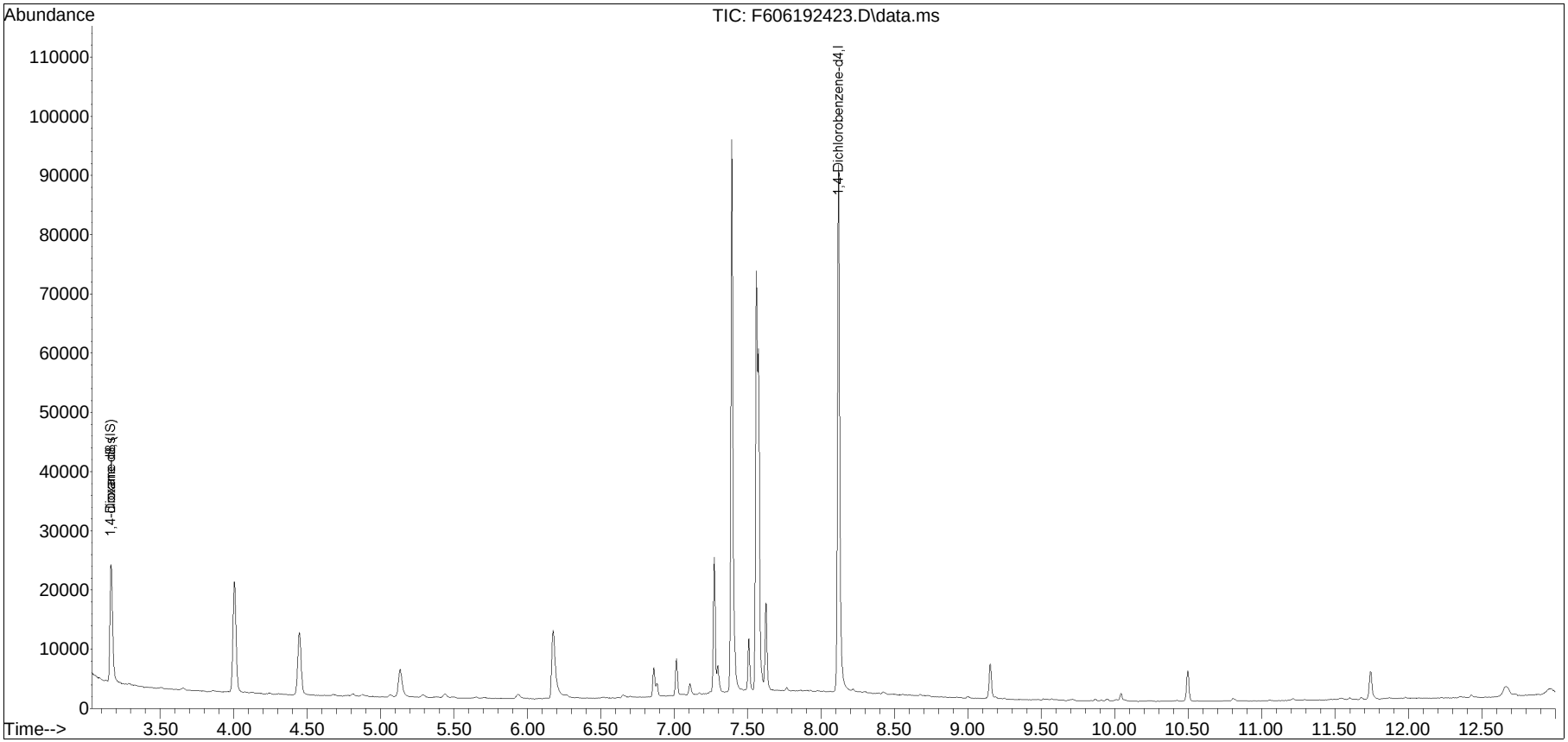
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192423.D
Acq On : 19 Jun 2024 5:38 pm
Operator : GCMS6:CSP
Sample : l2433035-08,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 20 08:53:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

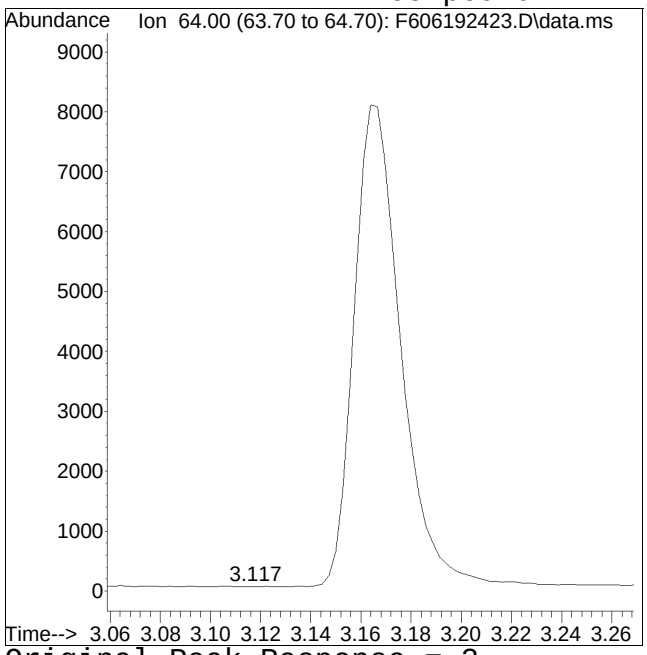


Manual Integration/Negative Proof Report

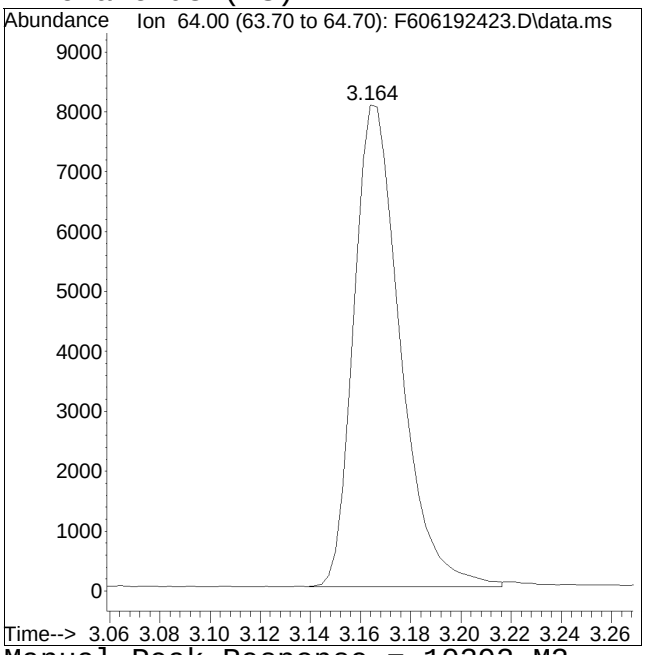
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606192423.D
Date Inj'd : 6/19/2024 5:38 pm
Sample : l2433035-08,32,,

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/20/2024 8:17 am

Compound #1: 1,4-Dioxane-d8 (IS)



Original Peak Response = 2



Manual Peak Response = 10392 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192424.D
Acq On : 19 Jun 2024 6:01 pm
Operator : GCMS6:CSP
Sample : l2433035-09,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 20 08:53:22 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.147	64	9058	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.115	152	59412	500.000	ng/mL	0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.147	64	9058	192.709	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

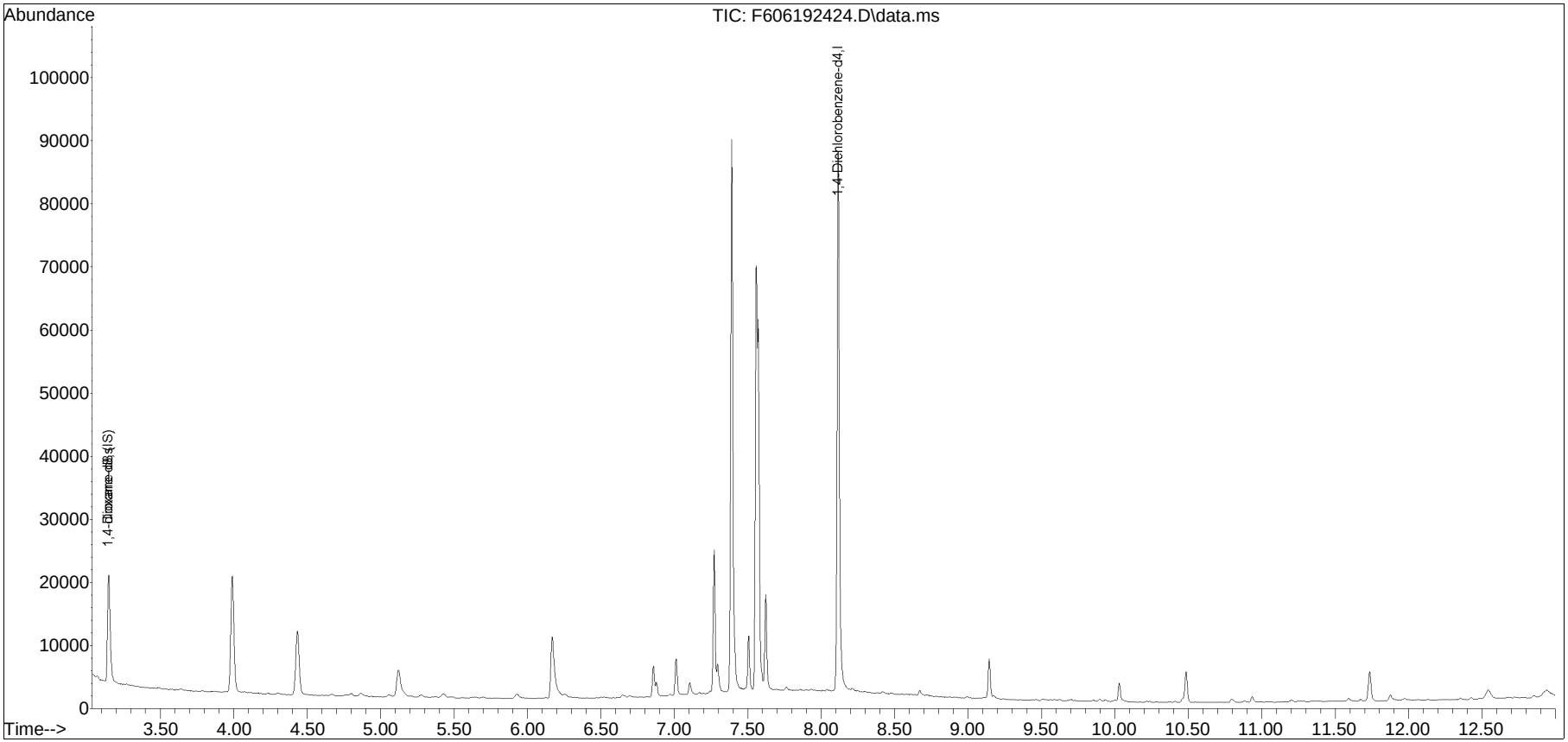
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192424.D
Acq On : 19 Jun 2024 6:01 pm
Operator : GCMS6:CSP
Sample : l2433035-09,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 20 08:53:22 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192424.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 6:01 pm	Instrument	: GCMS 6
Sample	: l2433035-09,32,,	Quant Date	: 6/20/2024 8:17 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192425.D
Acq On : 19 Jun 2024 6:24 pm
Operator : GCMS6:CSP
Sample : l2433035-10,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 20 08:54:06 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.150	64	9423	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	8.116	152	58594	500.000	ng/mL	0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.150	64	9423	203.273	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.65%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.208	88	806M7	32.667	ng/mL	

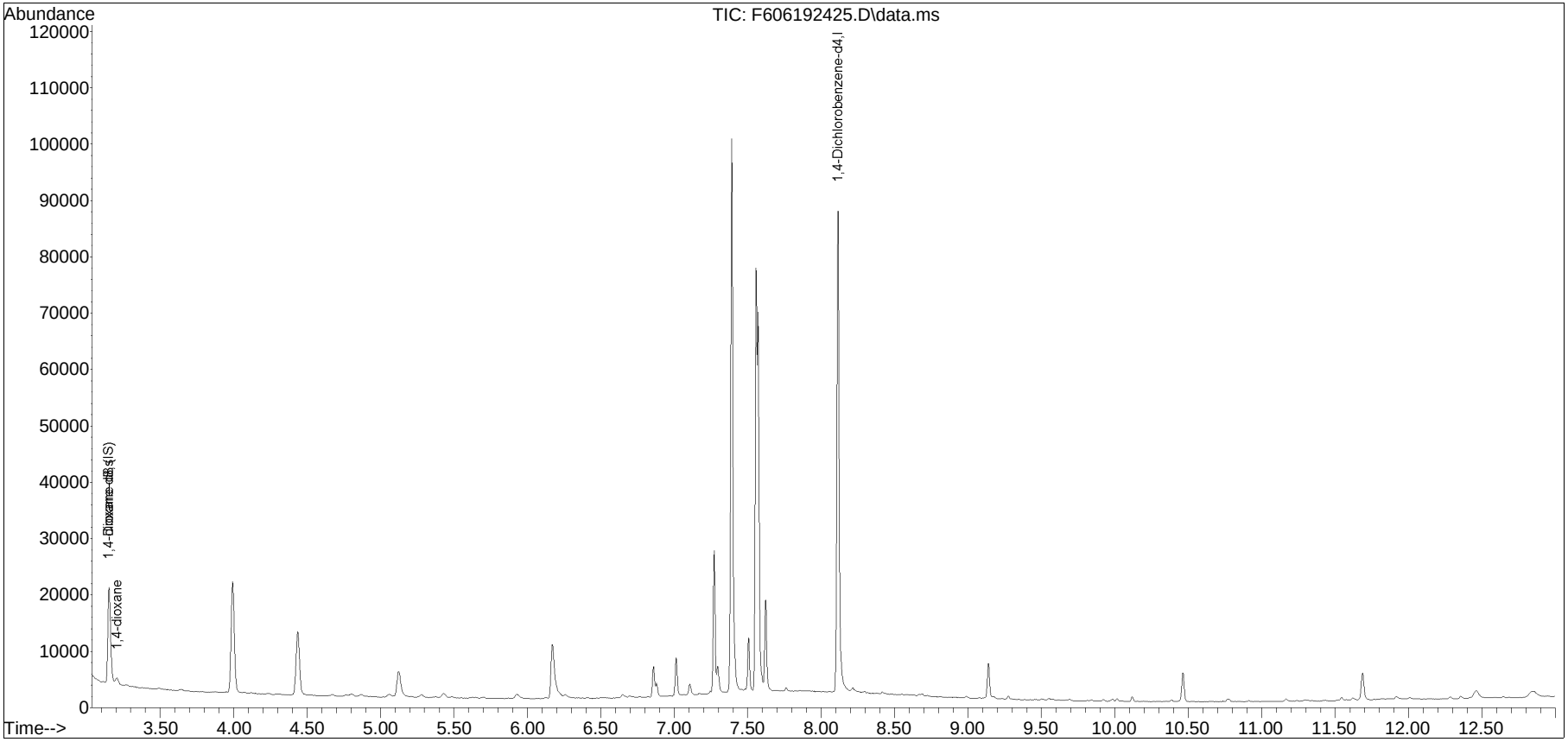
(#) = qualifier out of range (m) = manual integration (+) = signals summed

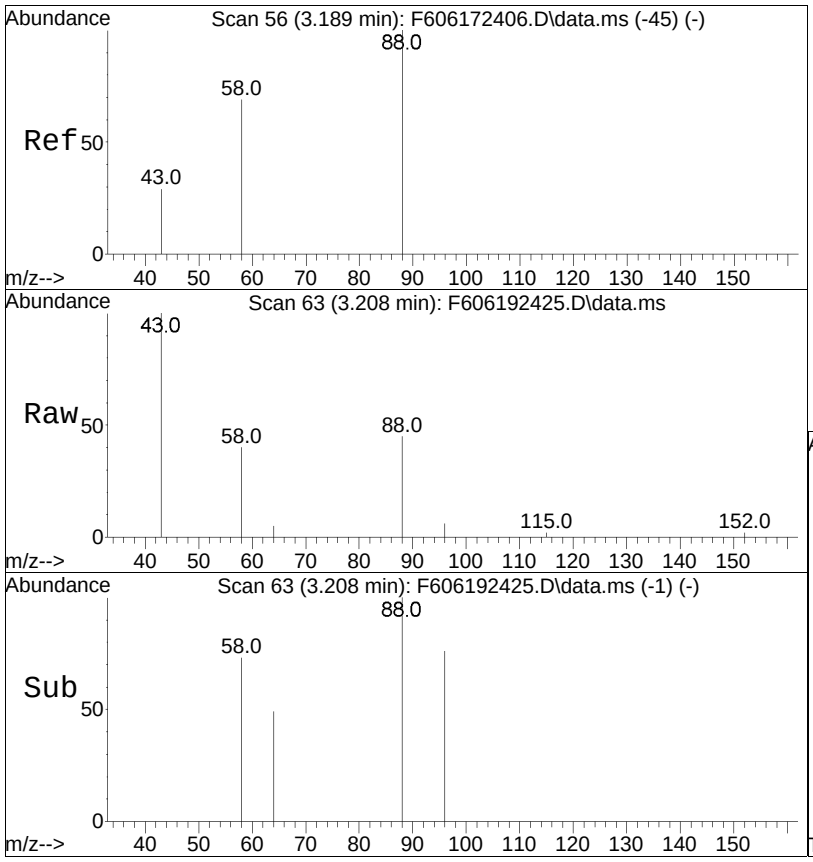
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192425.D
Acq On : 19 Jun 2024 6:24 pm
Operator : GCMS6:CSP
Sample : l2433035-10,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 20 08:54:06 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

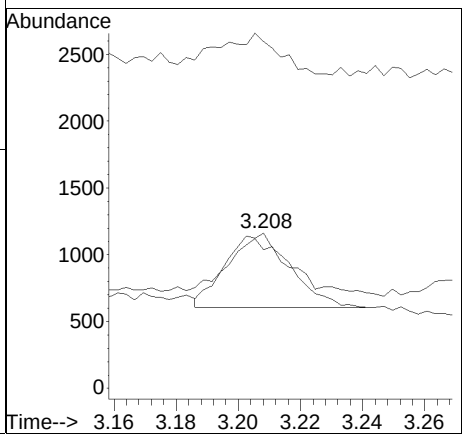




#2
1,4-dioxane
Concen: 32.67 ng/mL M7
RT: 3.208 min Scan# 63
Delta R.T. 0.019 min
Lab File: F606192425.D
Acq: 19 Jun 2024 6:24 pm

Tgt Ion: 88 Resp: 806

Ion	Ratio	Lower	Upper
88	100		
58	58.9	56.9	85.3
43	33.7	24.6	36.8

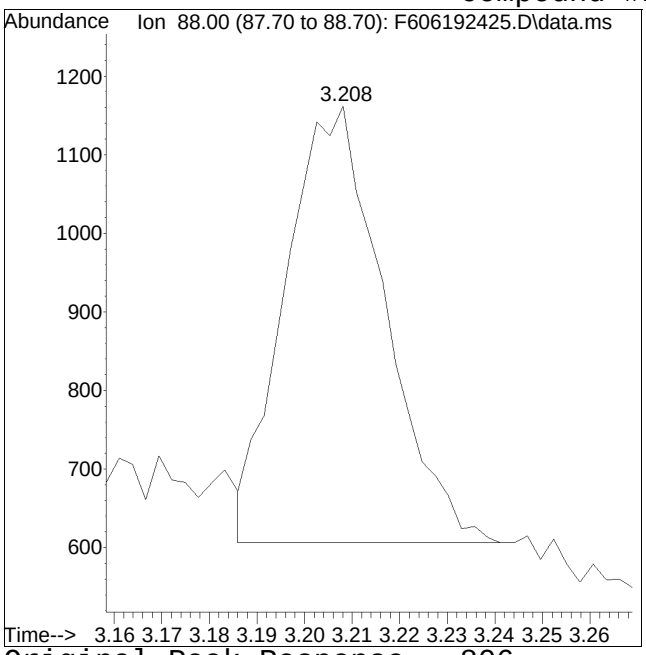


Manual Integration/Negative Proof Report

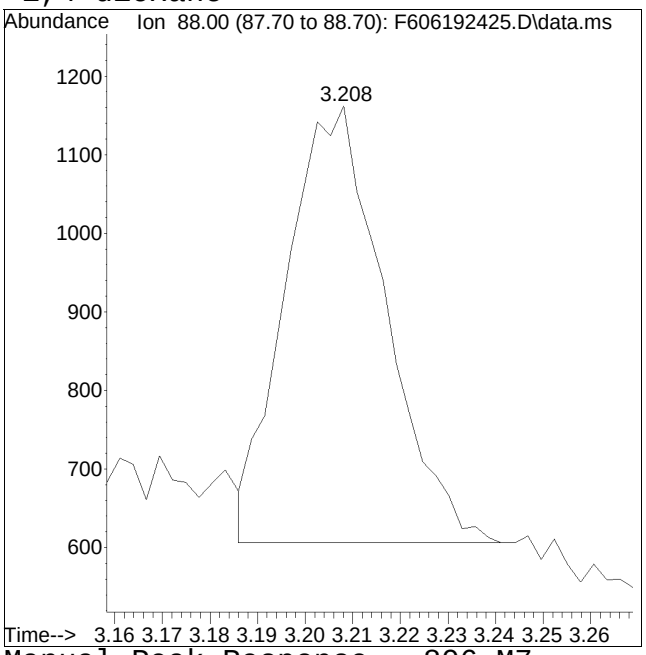
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606192425.D
Date Inj'd : 6/19/2024 6:24 pm
Sample : l2433035-10,32,,

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/20/2024 8:17 am

Compound #2: 1,4-dioxane



Original Peak Response = 806



Manual Peak Response = 806 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192427.D
Acq On : 19 Jun 2024 7:09 pm
Operator : GCMS6:CSP
Sample : l2433035-01,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 20 08:55:11 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.147	64	7991	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.110	152	58009	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.147	64	7991	174.121	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 34.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

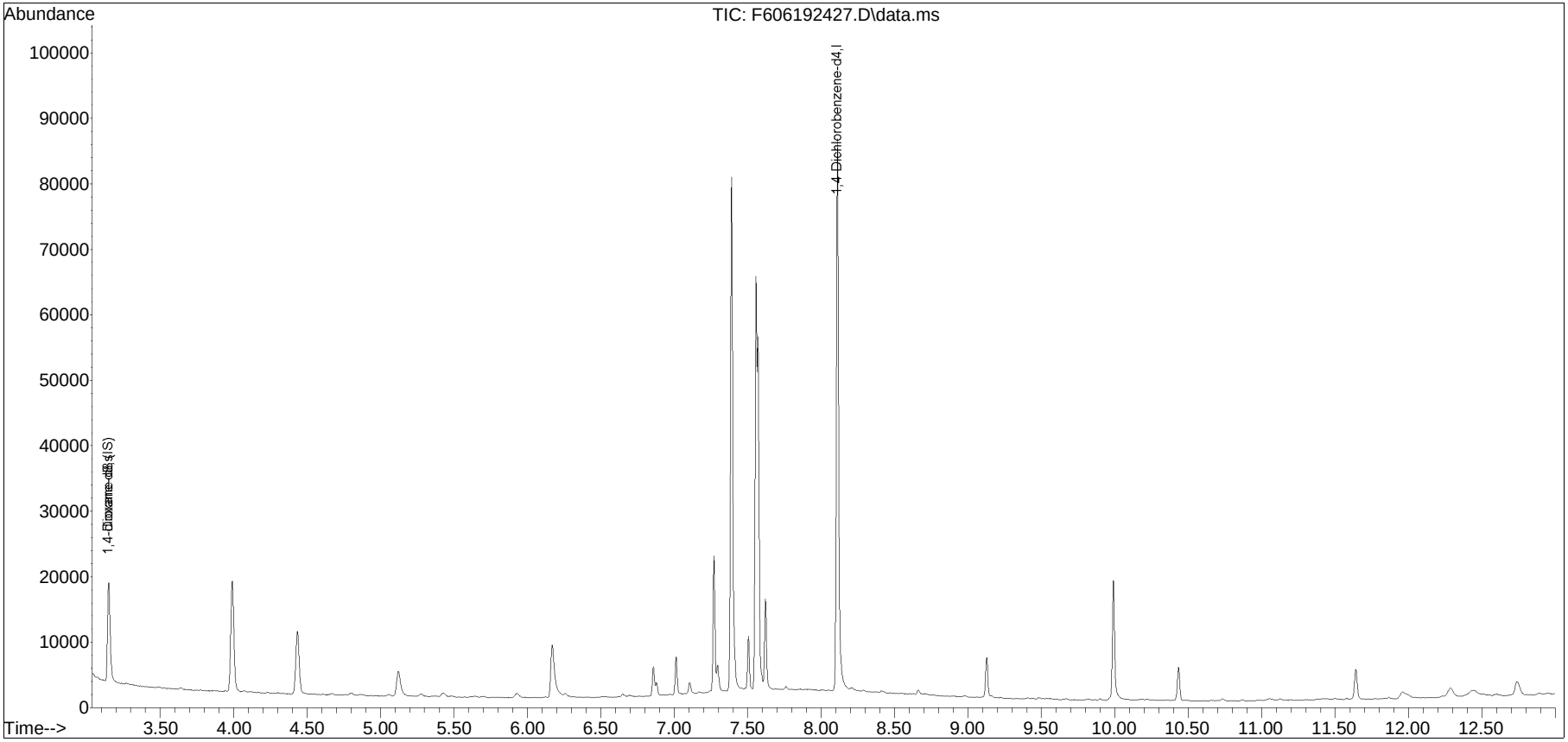
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192427.D
Acq On : 19 Jun 2024 7:09 pm
Operator : GCMS6:CSP
Sample : l2433035-01,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 20 08:55:11 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192427.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 7:09 pm	Instrument	: GCMS 6
Sample	: l2433035-01,32,,	Quant Date	: 6/20/2024 8:17 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GCMS6**	**Ical Ref**	**: ICAL21205**
Calibration dates	**: 06/17/24 16:53 06/17/24 18:59**		

Calibration Files
10 =F606172402.D 50 =F606172403.D 100 =F606172404.D 500 =F606172405.D 1000=F606172406.D
5000=F606172407.D 1e04=F606172408.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.559	1.272	1.279	1.228	1.261	1.287	1.279	1.309	8.55
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.358	0.399	0.403	0.403	0.400	0.400	0.406	0.396	4.23

Response Factor Report GCMS 6

Method Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Method File : 14DIOX0617GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Tue Jun 18 09:14:05 2024
Response Via : Initial Calibration

Calibration Files
10 =F606172402.D 50 =F606172403.D 100 =F606172404.D 500 =F606172405.D 1000=F606172406.D
5000=F606172407.D 1e04=F606172408.D

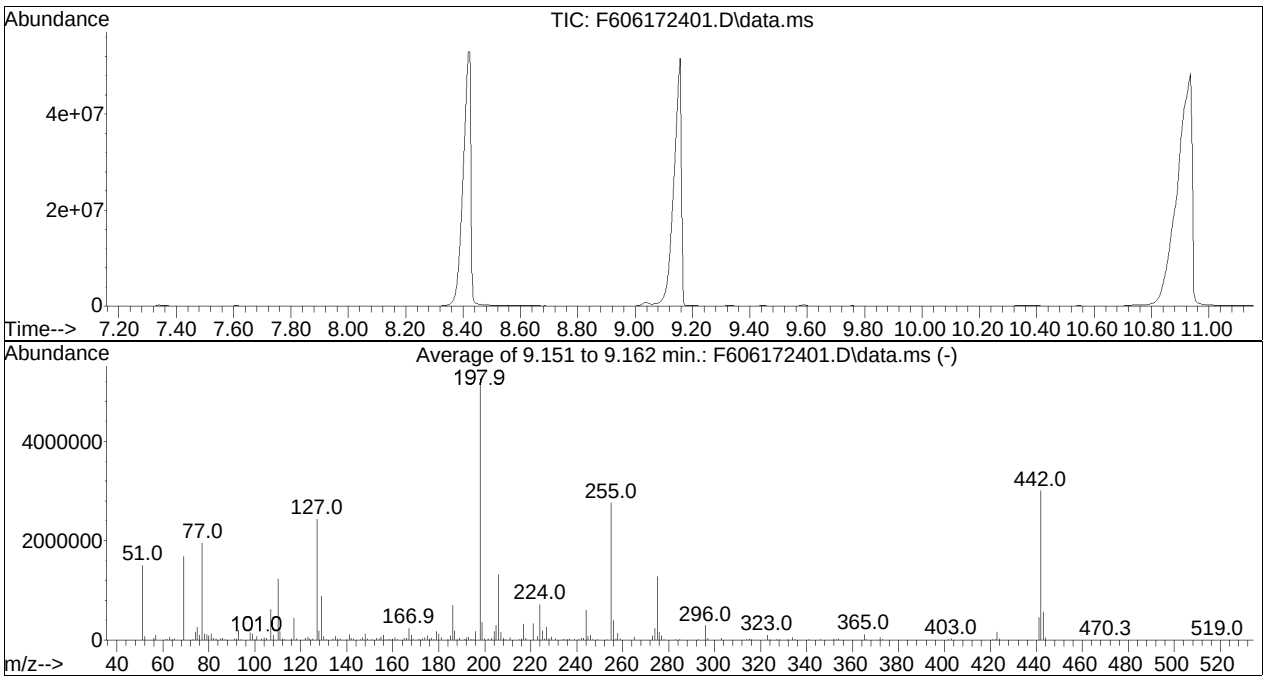
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.559	1.272	1.279	1.228	1.261	1.287	1.279	1.309	8.55
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.358	0.399	0.403	0.403	0.400	0.400	0.406	0.396	4.23

(#) = Out of Range

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172401.D
Acq On : 17 Jun 2024 4:20 pm
Operator : GCMS6:CSP
Sample : T606172401
Misc : WG1935770,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Tue Jun 18 09:14:05 2024



Spectrum Information: Average of 9.151 to 9.162 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.6	1501707	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	8242	PASS
127	198	10	80	46.3	2436493	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	5259867	PASS
199	198	5	9	6.8	356703	PASS
275	198	10	60	24.3	1278707	PASS
365	198	1	100	2.1	111261	PASS
441	442	0.01	24	15.2	457053	PASS
442	198	50	100	57.2	3011096	PASS
443	442	15	24	19.0	571554	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172402.D
Acq On : 17 Jun 2024 4:53 pm
Operator : GCMS6:CSP
Sample : I606172401
Misc : WG1935770,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 09:14:30 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.142	64	23443	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.105	152	65469	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.142	64	23443	452.607	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 90.52%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.194	88	731M7	11.909	ng/mL	

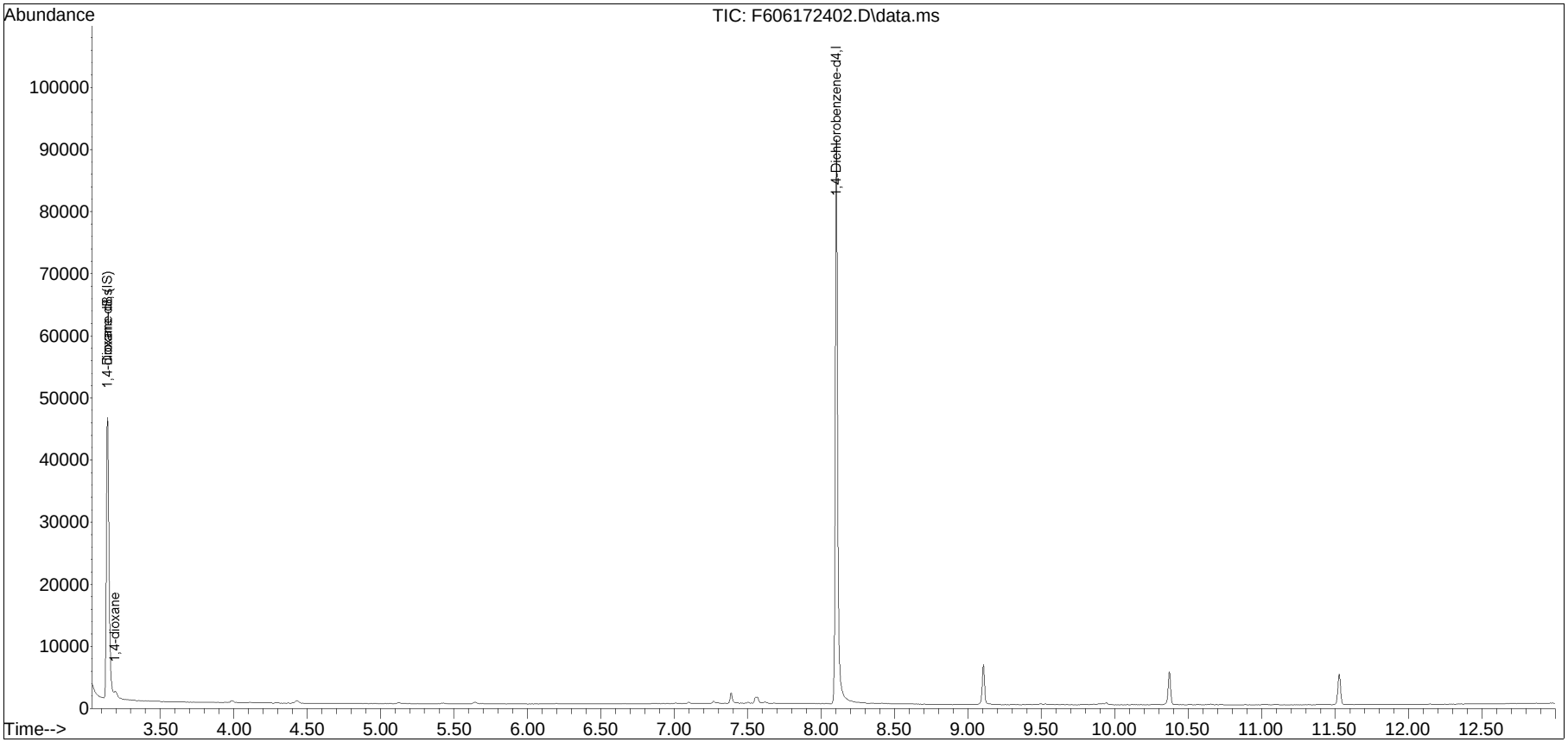
(#) = qualifier out of range (m) = manual integration (+) = signals summed

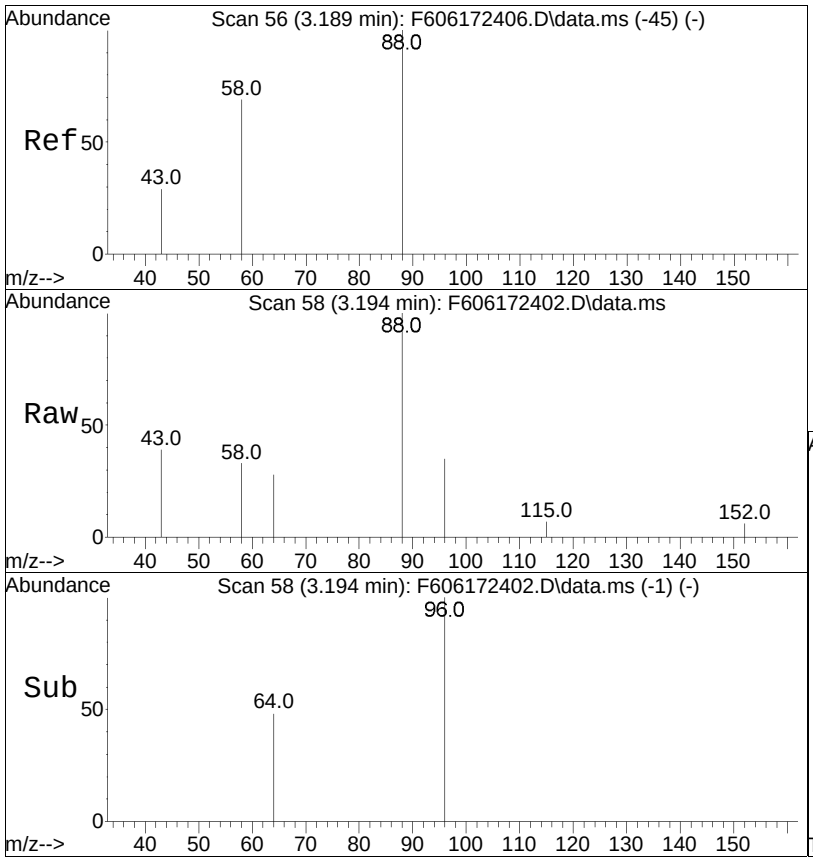
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172402.D
Acq On : 17 Jun 2024 4:53 pm
Operator : GCMS6:CSP
Sample : I606172401
Misc : WG1935770,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 09:14:30 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

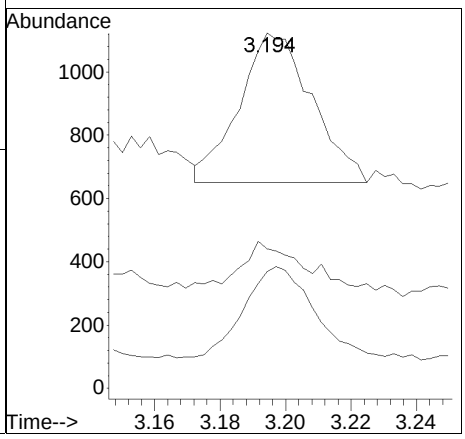




#2
1,4-dioxane
Concen: 11.91 ng/mL M7
RT: 3.194 min Scan# 58
Delta R.T. 0.006 min
Lab File: F606172402.D
Acq: 17 Jun 2024 4:53 pm

Tgt Ion: 88 Resp: 731

Ion	Ratio	Lower	Upper
88	100		
58	58.1	56.9	85.3
43	18.6	24.6	36.8#

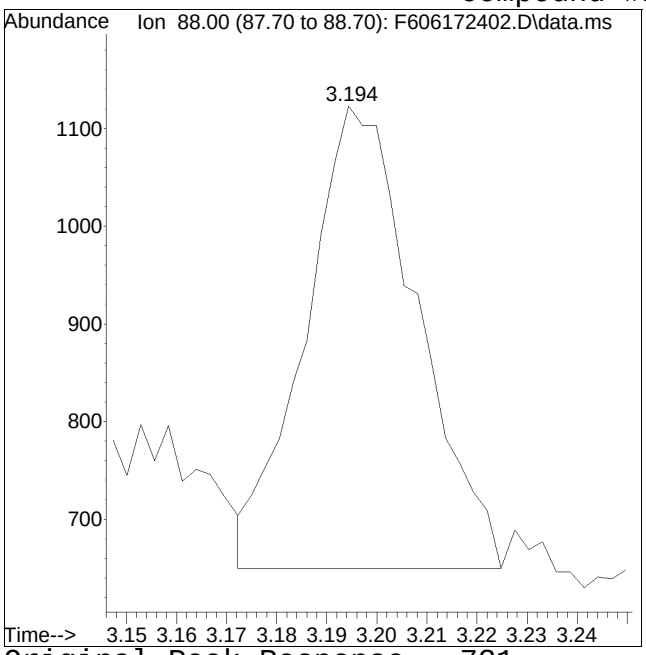


Manual Integration/Negative Proof Report

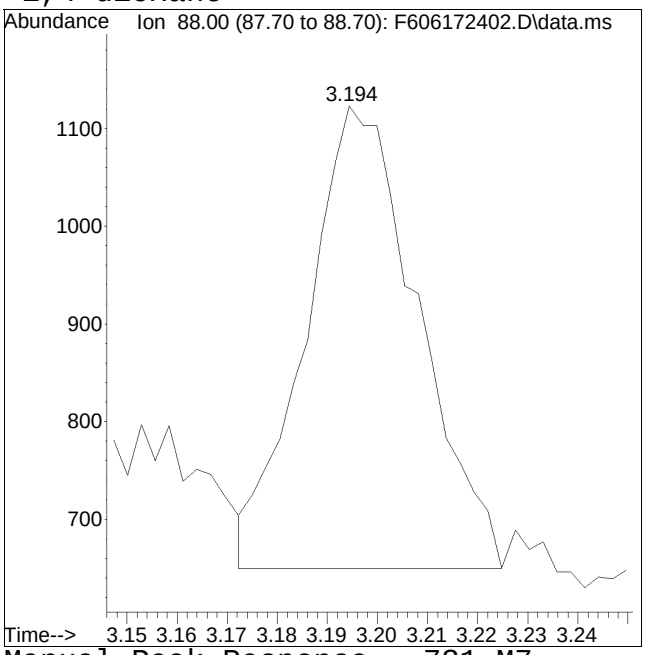
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606172402.D
Date Inj'd : 6/17/2024 4:53 pm
Sample : I606172401

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/18/2024 9:14 am

Compound #2: 1,4-dioxane



Original Peak Response = 731



Manual Peak Response = 731 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172403.D
Acq On : 17 Jun 2024 5:14 pm
Operator : GCMS6:CSP
Sample : I606172402
Misc : WG1935770,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 18 09:14:32 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.139	64	25761	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.105	152	64624	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.139	64	25761	503.864	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 100.77%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.194	88	3276	48.567	ng/mL	96

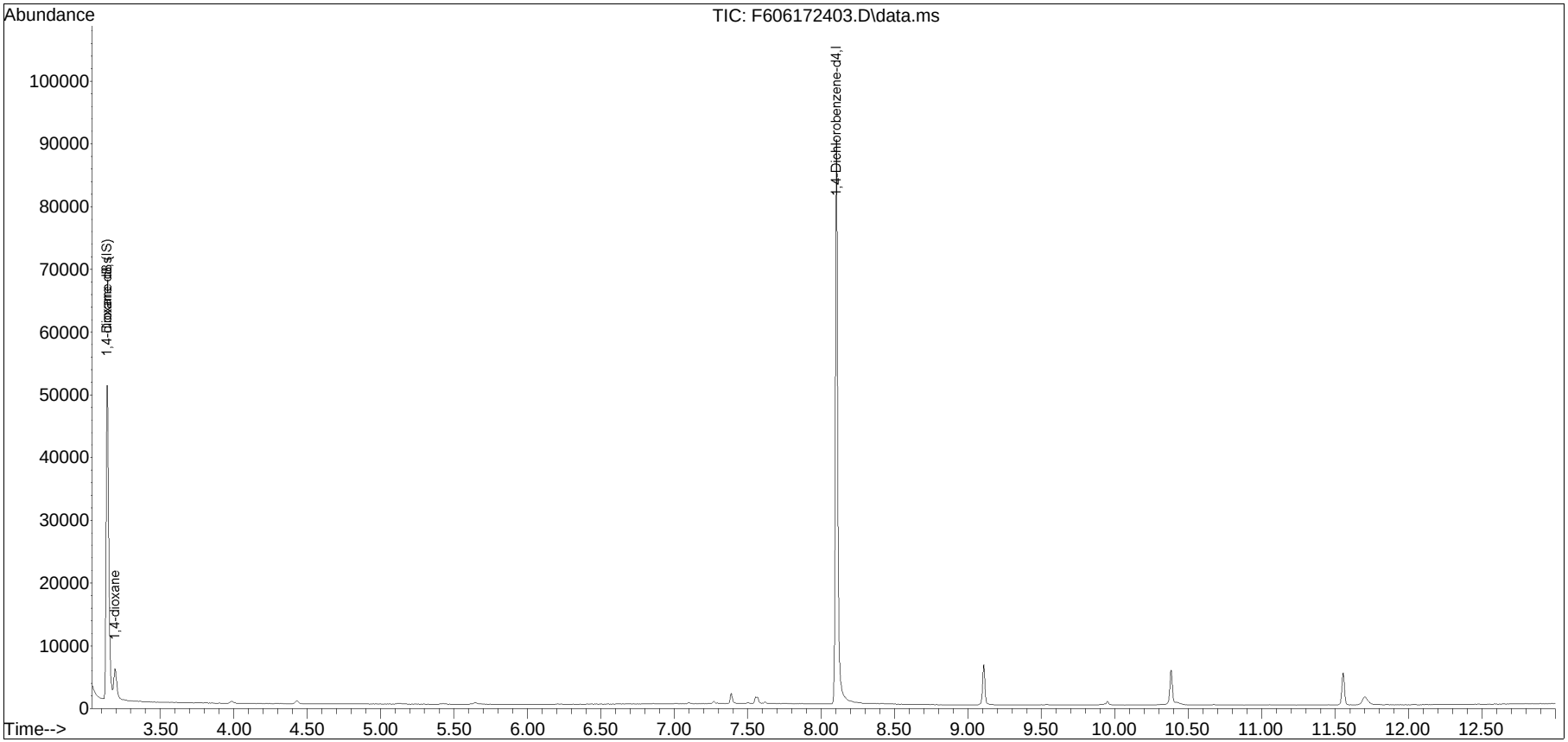
(#) = qualifier out of range (m) = manual integration (+) = signals summed

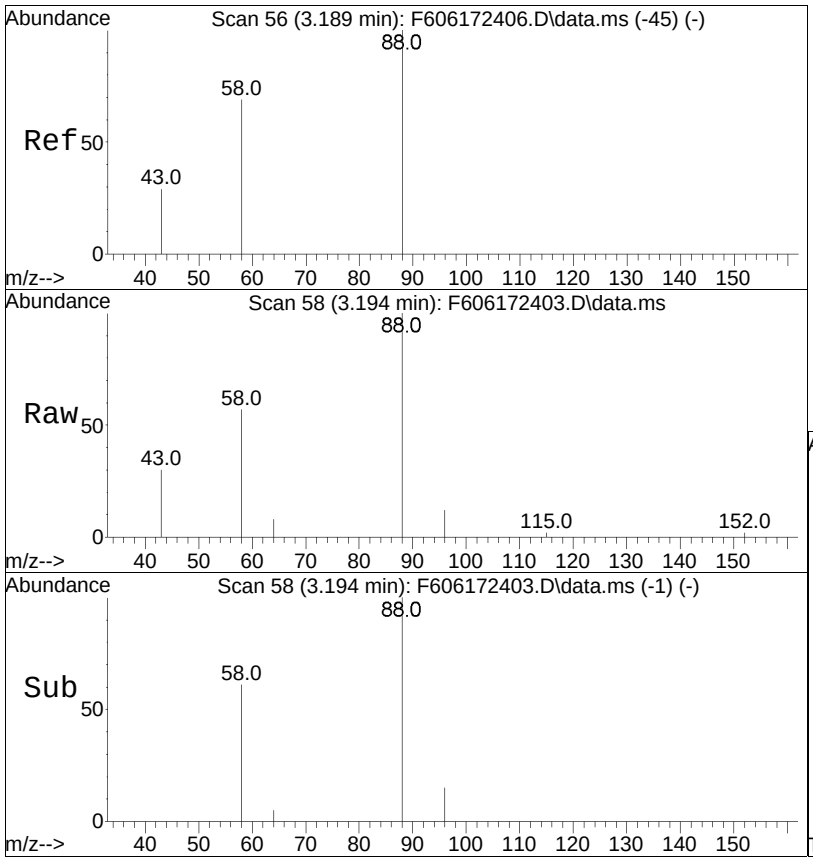
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172403.D
Acq On : 17 Jun 2024 5:14 pm
Operator : GCMS6:CSP
Sample : I606172402
Misc : WG1935770,MSBT55
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 18 09:14:32 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

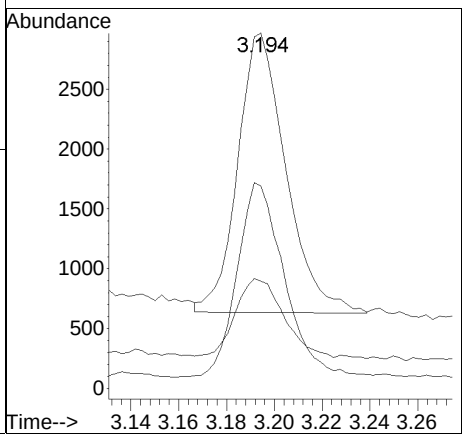




#2
1,4-dioxane
Concen: 48.57 ng/mL
RT: 3.194 min Scan# 58
Delta R.T. 0.006 min
Lab File: F606172403.D
Acq: 17 Jun 2024 5:14 pm

Tgt Ion: 88 Resp: 3276

Ion	Ratio	Lower	Upper
88	100		
58	68.3	56.9	85.3
43	28.2	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606172403.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/17/2024 5:14 pm	Instrument	: GCMS 6
Sample	: I606172402	Quant Date	: 6/18/2024 9:14 am

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

F606172403.D 14DIOX0617GCMS6.M Tue Jun 18 09:20:19 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172404.D
Acq On : 17 Jun 2024 5:35 pm
Operator : GCMS6:CSP
Sample : I606172403
Misc : WG1935770,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 18 09:14:35 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.136	64	25330	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.104	152	62815	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.136	64	25330	509.702	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.94%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.189	88	6480	97.702	ng/mL	98

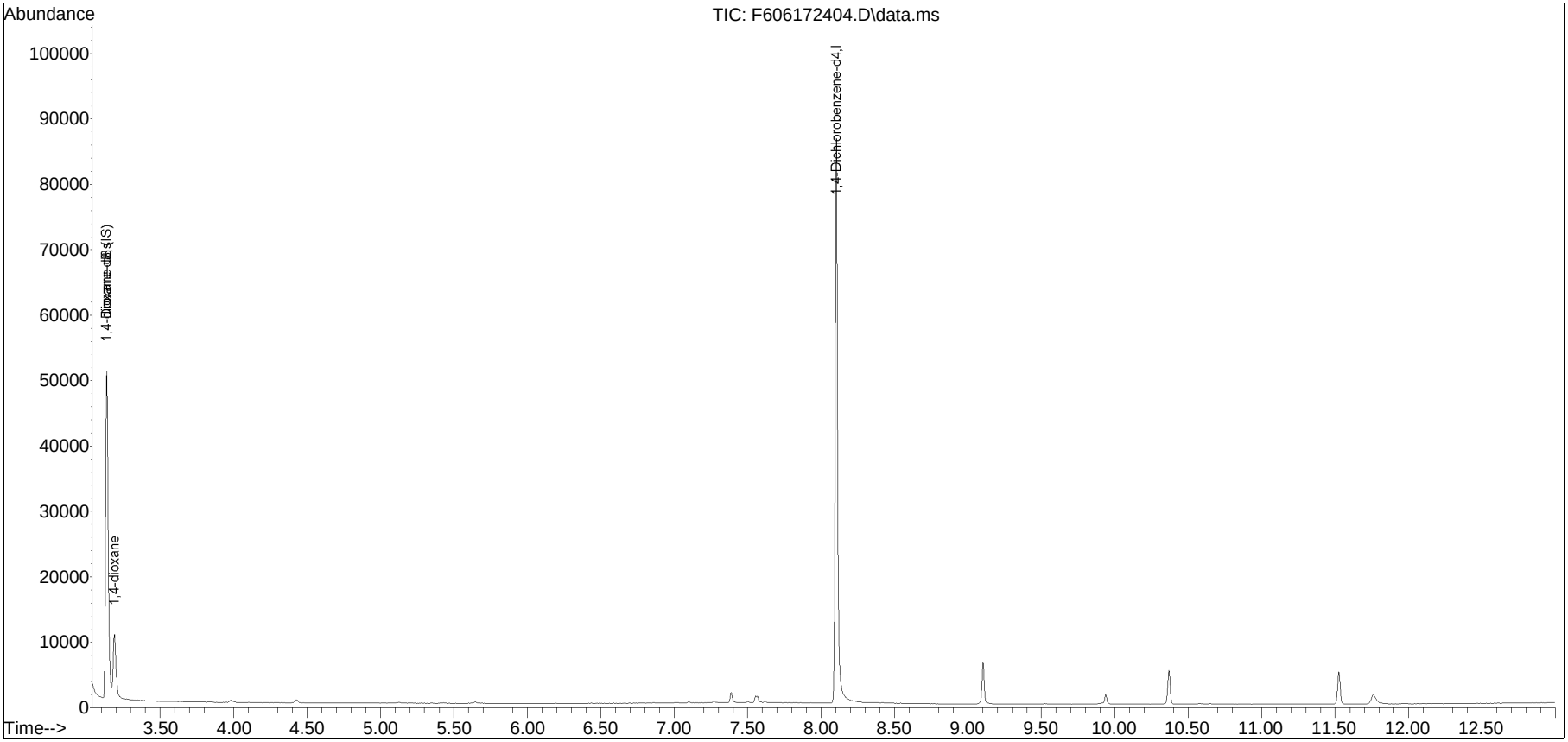
(#) = qualifier out of range (m) = manual integration (+) = signals summed

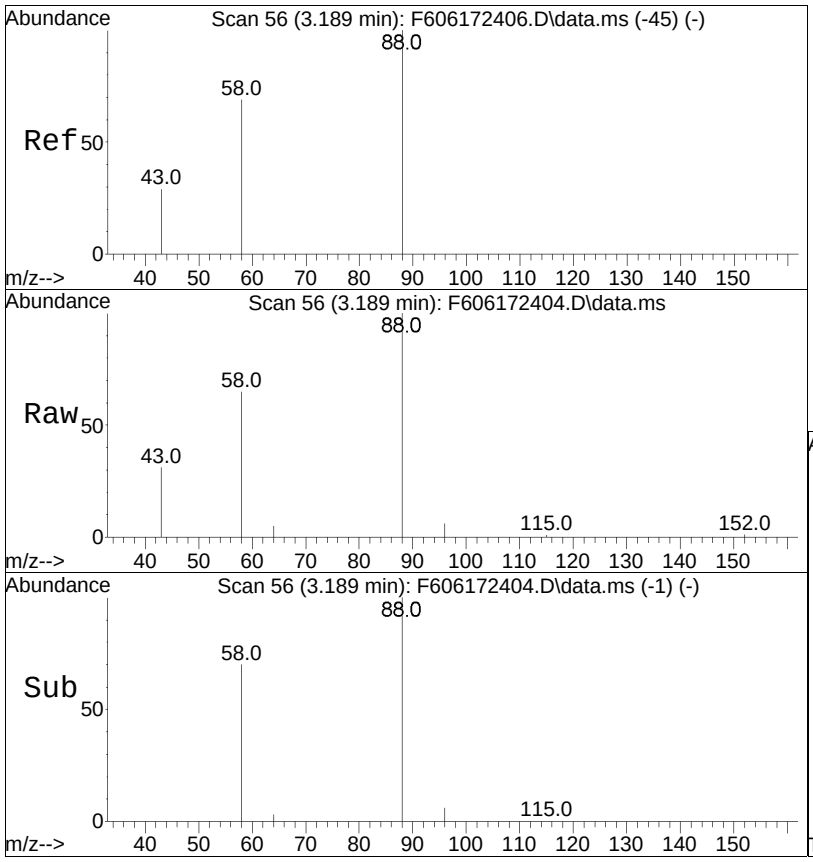
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172404.D
Acq On : 17 Jun 2024 5:35 pm
Operator : GCMS6:CSP
Sample : I606172403
Misc : WG1935770,MSBT56
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 18 09:14:35 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

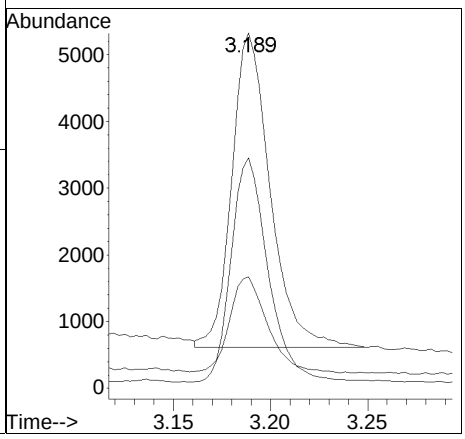




#2
1,4-dioxane
Concen: 97.70 ng/mL
RT: 3.189 min Scan# 56
Delta R.T. -0.000 min
Lab File: F606172404.D
Acq: 17 Jun 2024 5:35 pm

Tgt Ion: 88 Resp: 6480

Ion	Ratio	Lower	Upper
88	100		
58	69.3	56.9	85.3
43	30.4	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606172404.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/17/2024 5:35 pm	Instrument	: GCMS 6
Sample	: I606172403	Quant Date	: 6/18/2024 9:14 am

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

F606172404.D 14DIOX0617GCMS6.M Tue Jun 18 09:20:21 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172405.D
Acq On : 17 Jun 2024 5:56 pm
Operator : GCMS6:CSP
Sample : I606172404
Misc : WG1935770,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 18 09:14:39 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.139	64	25409	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.102	152	63079M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.139	64	25409	509.151	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.83%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.189	88	31192	468.833	ng/mL	99

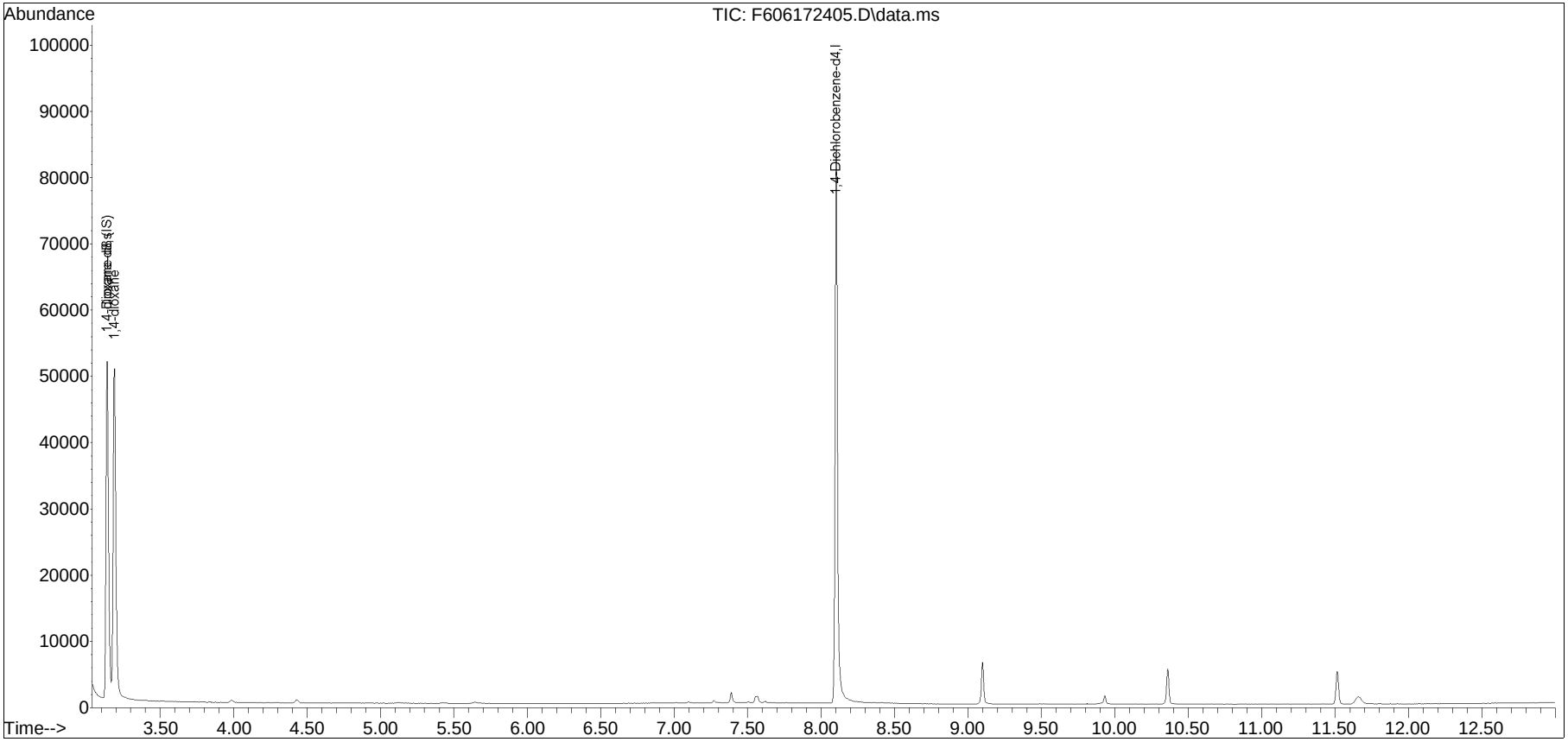
(#) = qualifier out of range (m) = manual integration (+) = signals summed

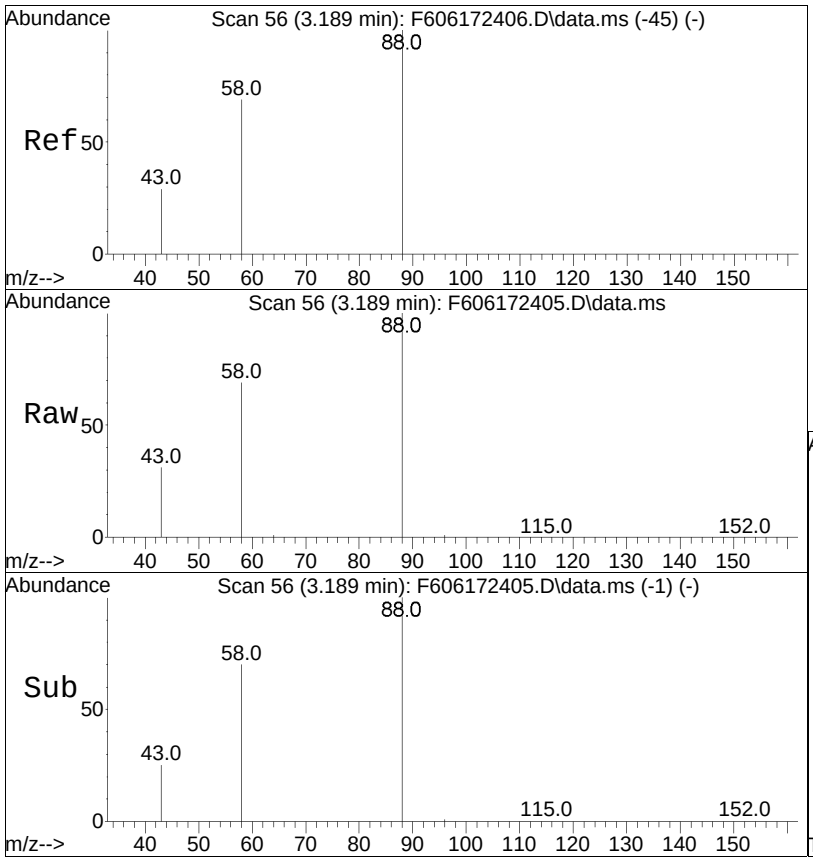
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172405.D
Acq On : 17 Jun 2024 5:56 pm
Operator : GCMS6:CSP
Sample : I606172404
Misc : WG1935770,MSBT57
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 18 09:14:39 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

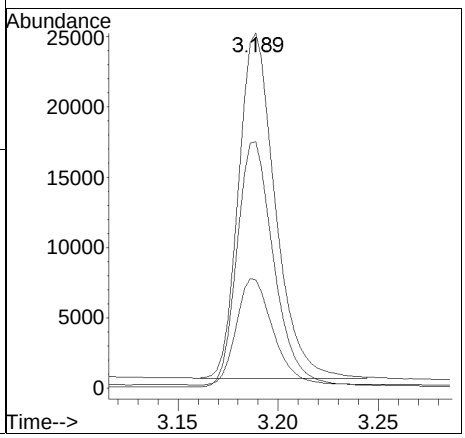




#2
1,4-dioxane
Concen: 468.83 ng/mL
RT: 3.189 min Scan# 56
Delta R.T. 0.000 min
Lab File: F606172405.D
Acq: 17 Jun 2024 5:56 pm

Tgt Ion: 88 Resp: 31192

Ion	Ratio	Lower	Upper
88	100		
58	72.3	56.9	85.3
43	30.9	24.6	36.8

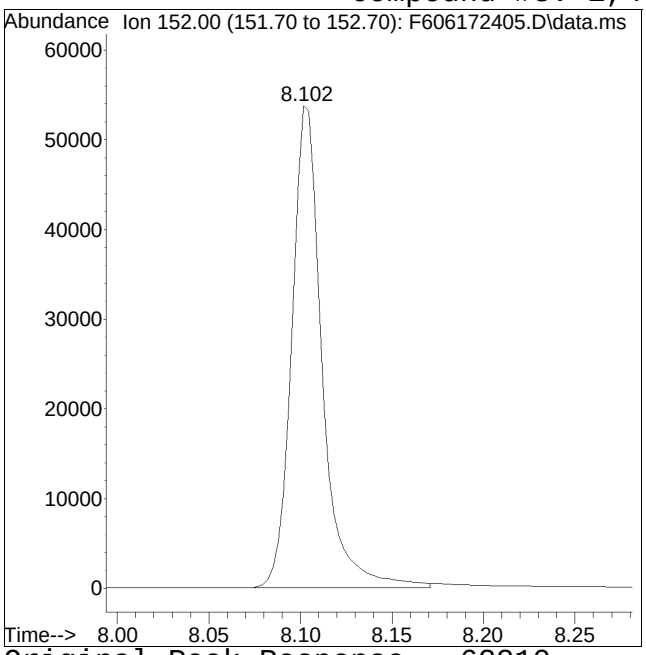


Manual Integration/Negative Proof Report

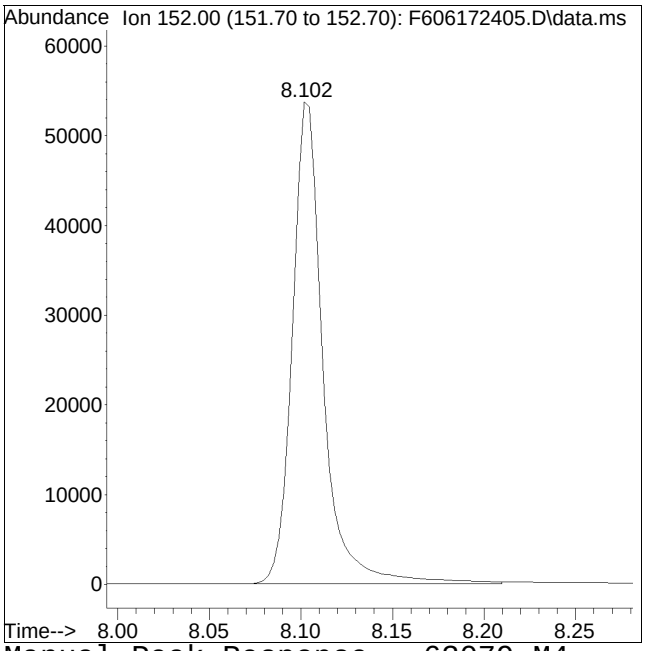
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606172405.D
Date Inj'd : 6/17/2024 5:56 pm
Sample : I606172404

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/18/2024 9:14 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 62210



Manual Peak Response = 63079 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172406.D
Acq On : 17 Jun 2024 6:17 pm
Operator : GCMS6:CSP
Sample : I606172405
Misc : WG1935770,MSBT91
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 09:14:42 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.139	64	25097	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.102	152	62777	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.139	64	25097	505.319	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.06%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.189	88	63280M7	962.958	ng/mL	

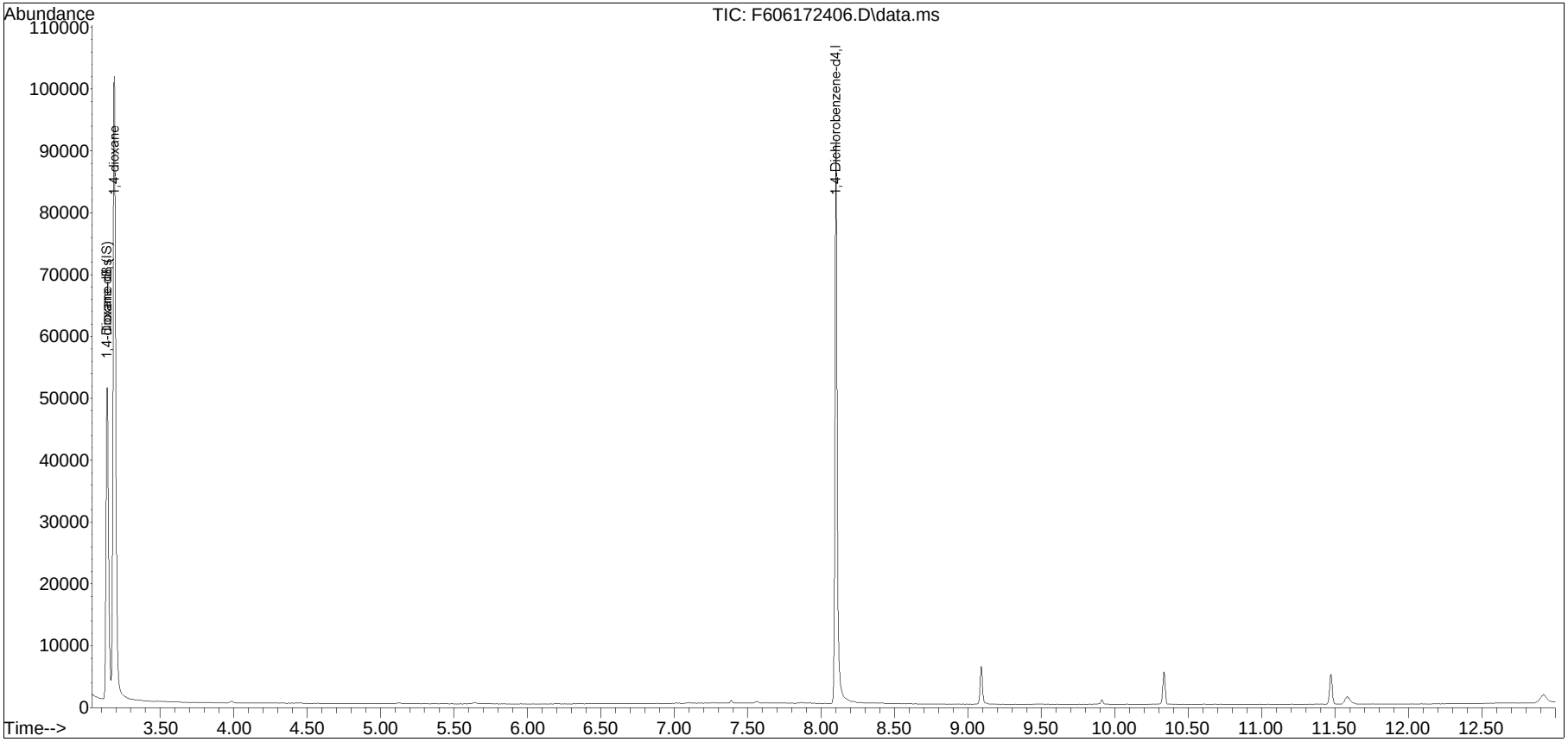
(#) = qualifier out of range (m) = manual integration (+) = signals summed

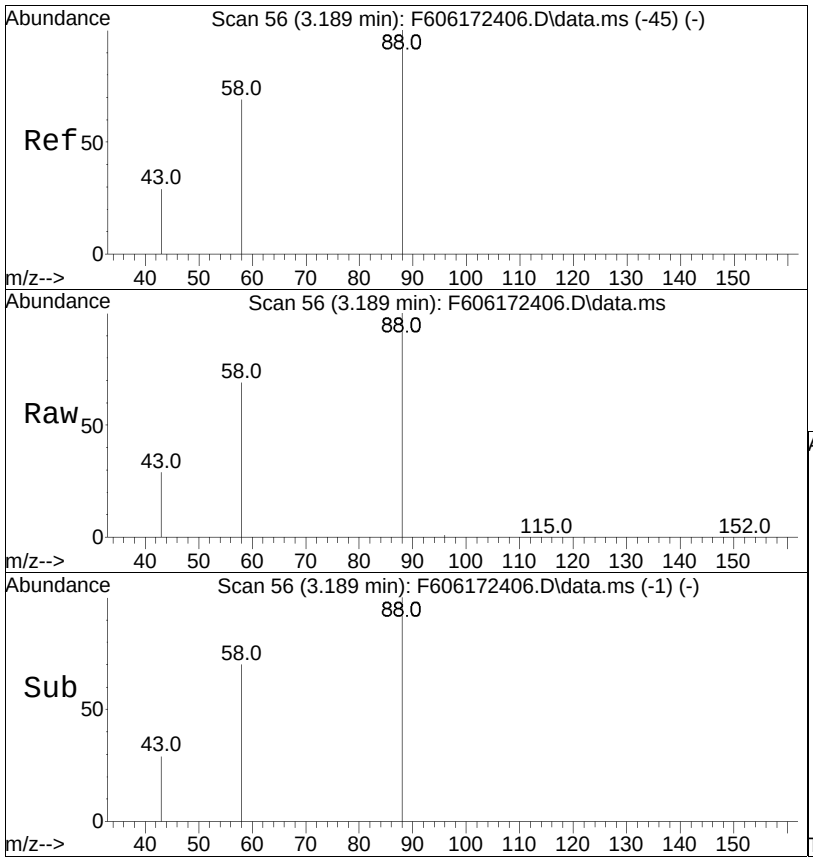
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172406.D
Acq On : 17 Jun 2024 6:17 pm
Operator : GCMS6:CSP
Sample : I606172405
Misc : WG1935770,MSBT91
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 18 09:14:42 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

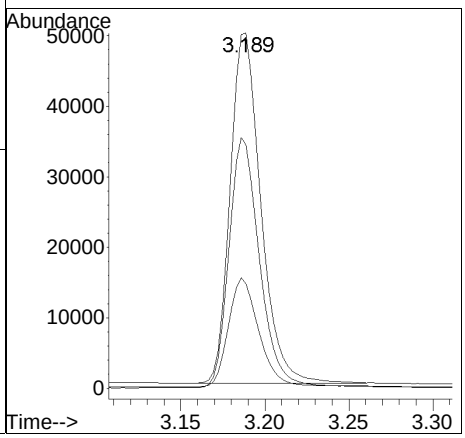




#2
1,4-dioxane
Concen: 962.96 ng/mL M7
RT: 3.189 min Scan# 56
Delta R.T. 0.000 min
Lab File: F606172406.D
Acq: 17 Jun 2024 6:17 pm

Tgt Ion: 88 Resp: 63280

Ion	Ratio	Lower	Upper
88	100		
58	71.8	56.9	85.3
43	30.7	24.6	36.8

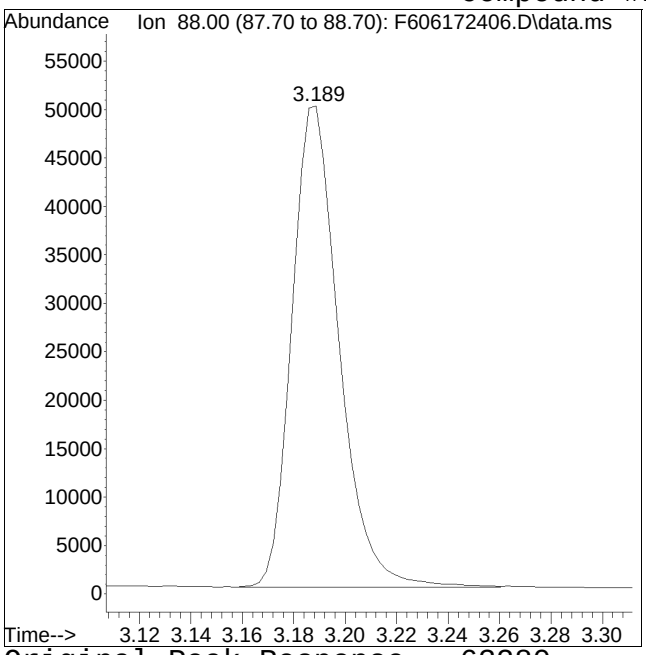


Manual Integration/Negative Proof Report

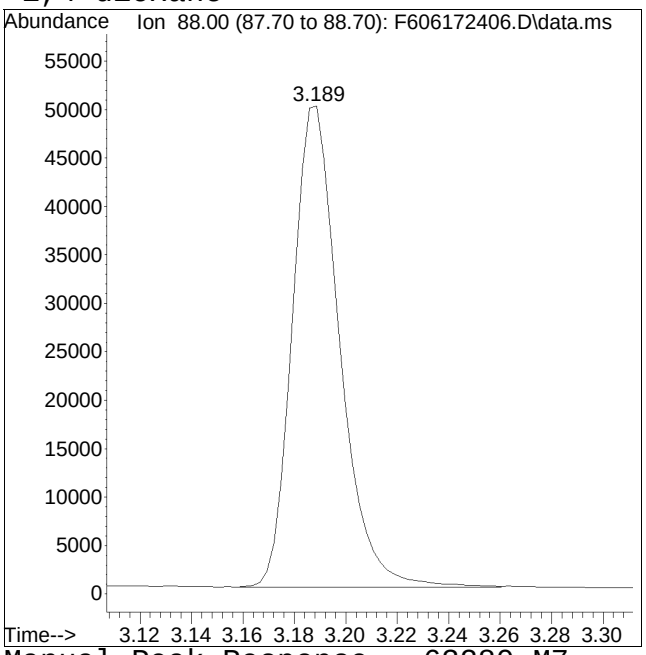
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606172406.D
Date Inj'd : 6/17/2024 6:17 pm
Sample : I606172405

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/18/2024 9:14 am

Compound #2: 1,4-dioxane



Original Peak Response = 63280



Manual Peak Response = 63280 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172407.D
Acq On : 17 Jun 2024 6:38 pm
Operator : GCMS6:CSP
Sample : I606172406
Misc : WG1935770,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 09:14:44 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.133	64	24681	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.104	152	61634	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.133	64	24681	506.159	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 101.23%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.183	88	317721	4916.384	ng/mL	100

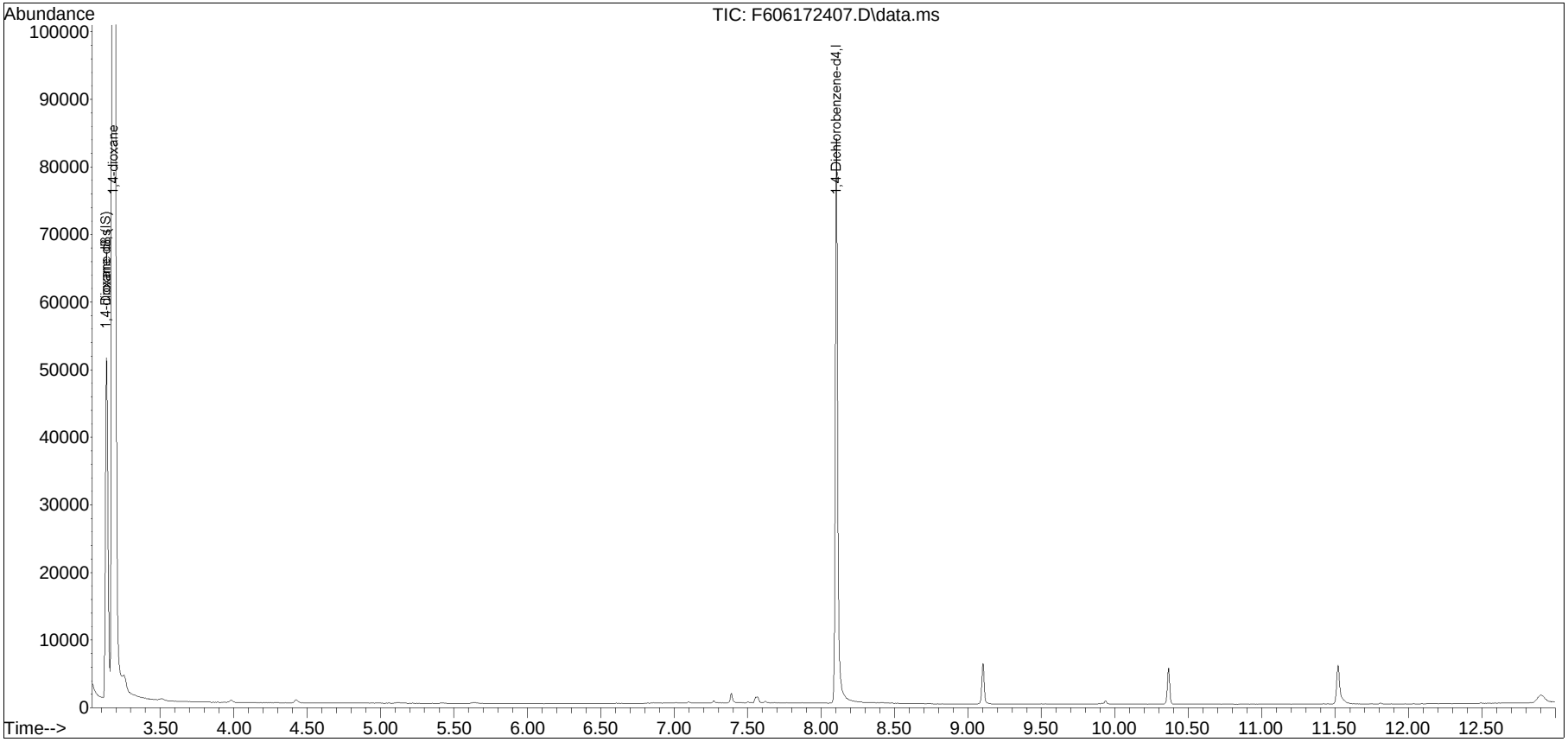
(#) = qualifier out of range (m) = manual integration (+) = signals summed

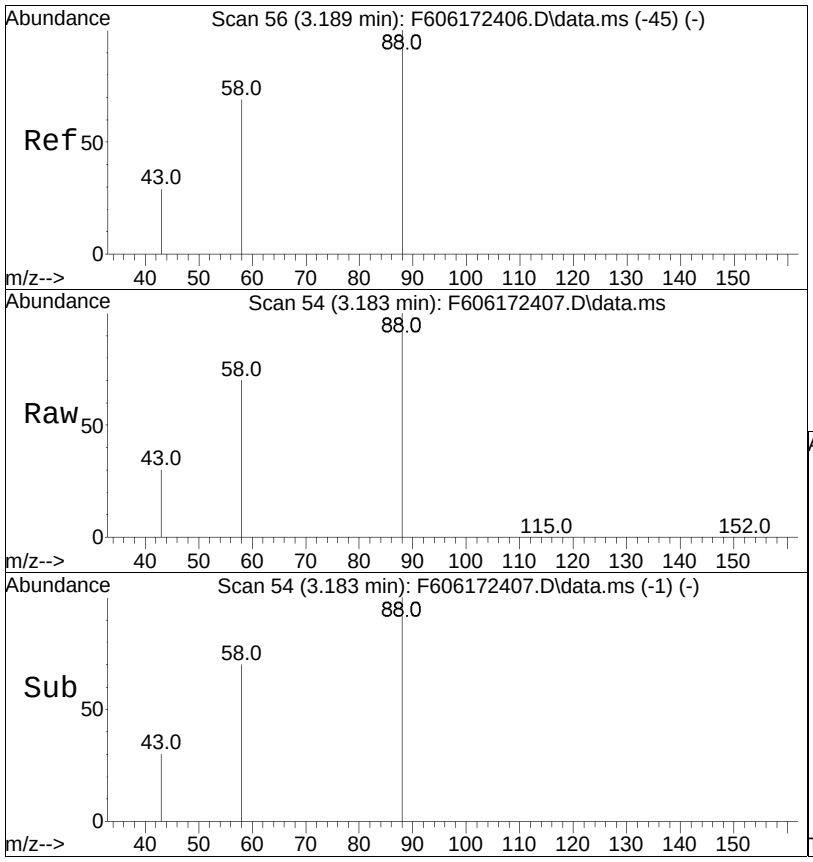
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172407.D
Acq On : 17 Jun 2024 6:38 pm
Operator : GCMS6:CSP
Sample : I606172406
Misc : WG1935770,MSBT59
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 18 09:14:44 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

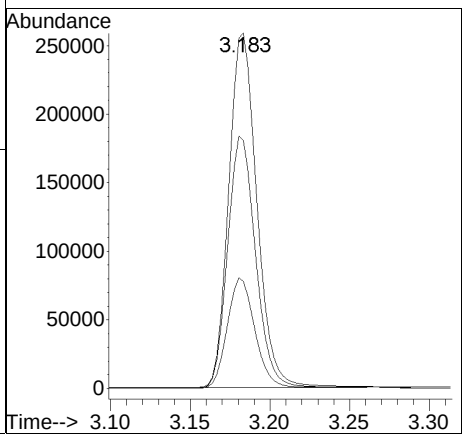




#2
1,4-dioxane
Concen: 4916.38 ng/mL
RT: 3.183 min Scan# 54
Delta R.T. -0.005 min
Lab File: F606172407.D
Acq: 17 Jun 2024 6:38 pm

Tgt Ion: 88 Resp: 317721

Ion	Ratio	Lower	Upper
88	100		
58	71.0	56.9	85.3
43	30.6	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606172407.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/17/2024 6:38 pm	Instrument	: GCMS 6
Sample	: I606172406	Quant Date	: 6/18/2024 9:14 am

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172408.D
Acq On : 17 Jun 2024 6:59 pm
Operator : GCMS6:CSP
Sample : I606172407
Misc : WG1935770,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 09:14:48 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.133	64	25047	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.107	152	61690M4	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.133	64	25047	513.198	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.183	88	640656	9768.589	ng/mL	99

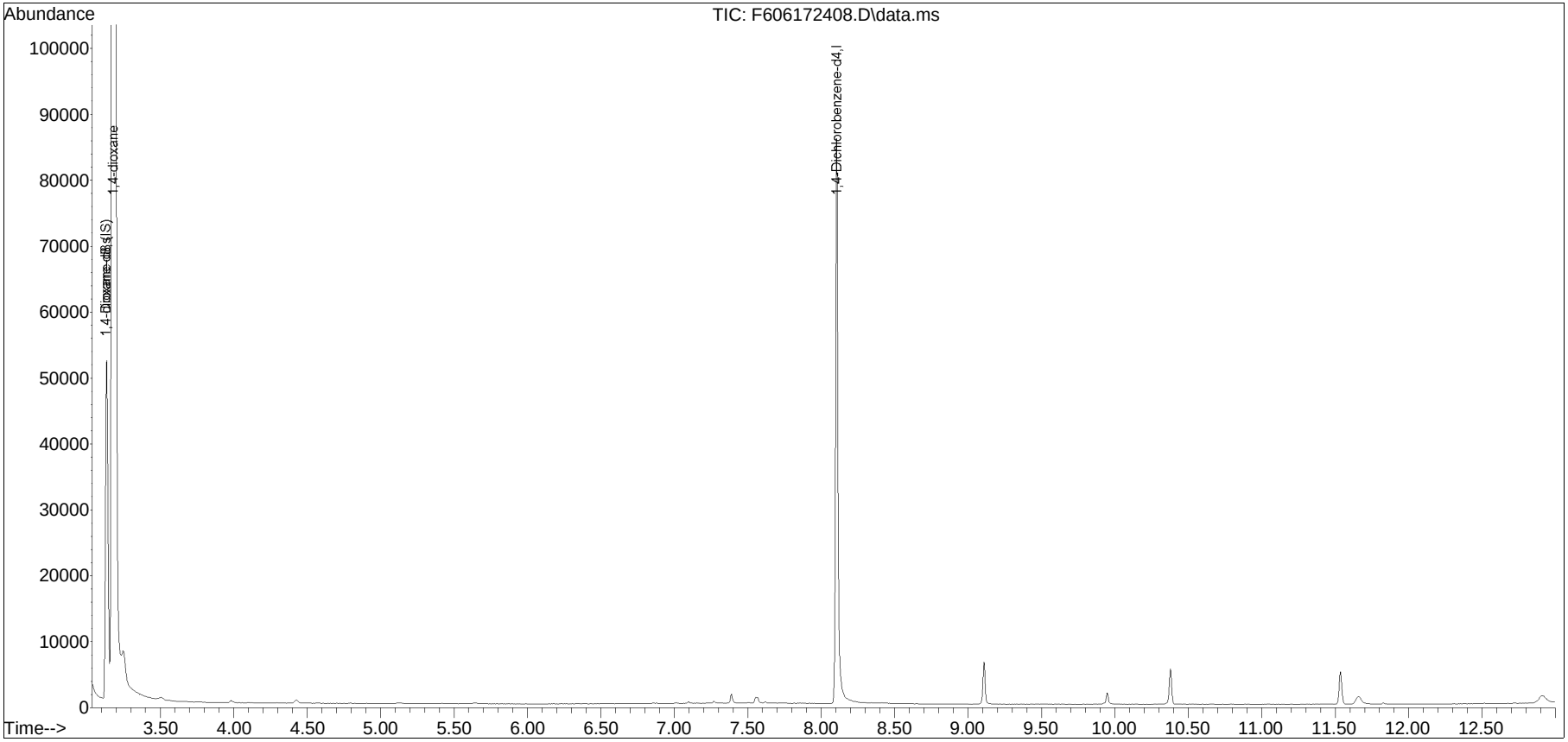
(#) = qualifier out of range (m) = manual integration (+) = signals summed

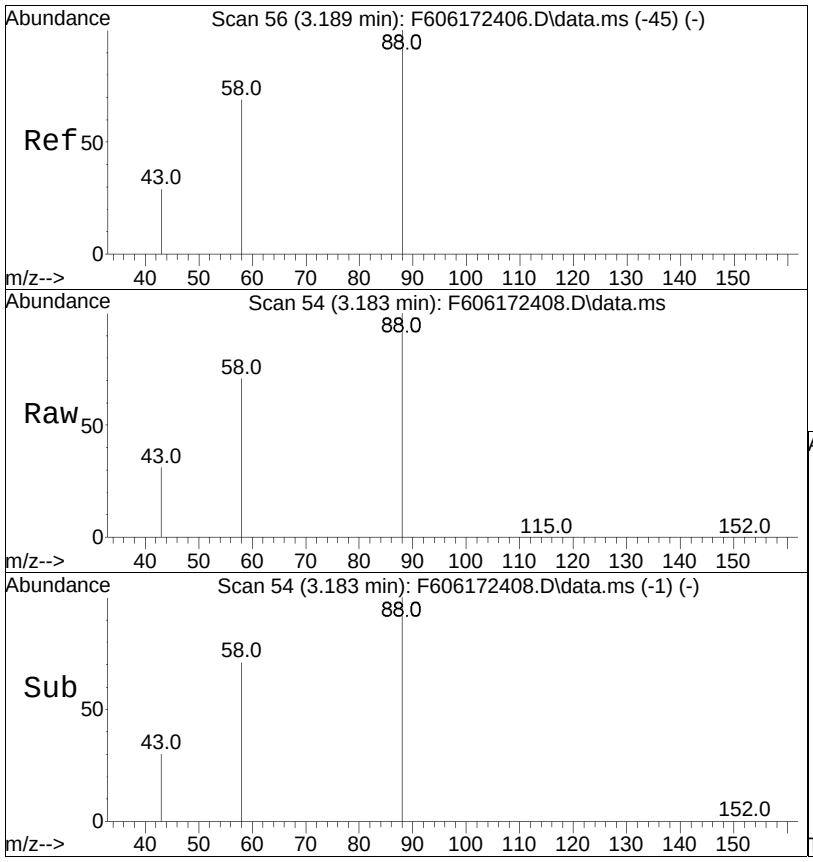
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172408.D
Acq On : 17 Jun 2024 6:59 pm
Operator : GCMS6:CSP
Sample : I606172407
Misc : WG1935770,MSBT53
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 09:14:48 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

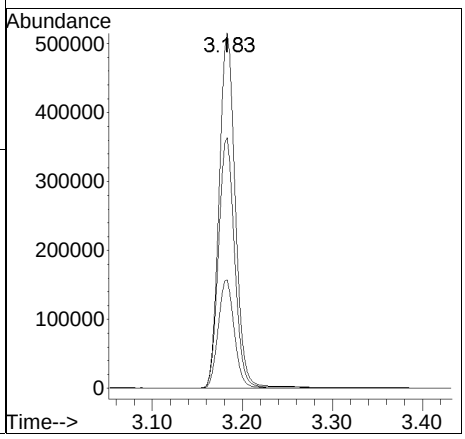




#2
1,4-dioxane
Concen: 9768.59 ng/mL
RT: 3.183 min Scan# 54
Delta R.T. -0.006 min
Lab File: F606172408.D
Acq: 17 Jun 2024 6:59 pm

Tgt Ion: 88 Resp: 640656

Ion	Ratio	Lower	Upper
88	100		
58	70.3	56.9	85.3
43	30.4	24.6	36.8

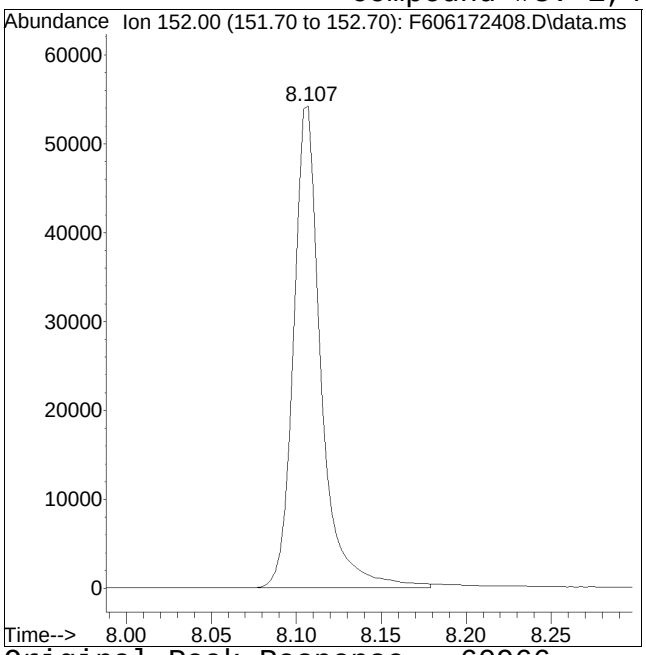


Manual Integration/Negative Proof Report

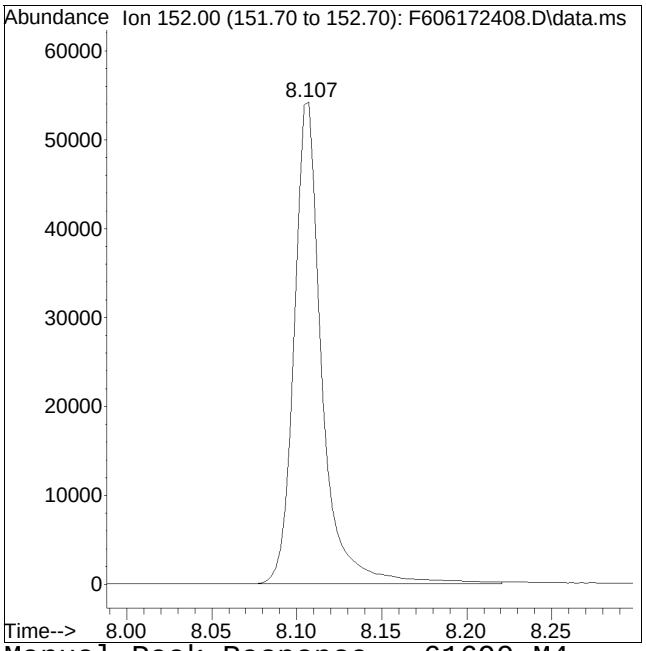
Data Path : O:\Organics\DATA\GCMS6\2024Q
Data File : F606172408.D
Date Inj'd : 6/17/2024 6:59 pm
Sample : I606172407

Method : 14DIOX0617GCMS6.M
Operator : GCMS6:CSP
Instrument : GCMS 6
Quant Date : 6/18/2024 9:14 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 60966



Manual Peak Response = 61690 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172409.D
Acq On : 17 Jun 2024 7:20 pm
Operator : GCMS6:CSP
Sample : CQ606172401
Misc : WG1935770,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:15:01 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	90	0.00
2	1,4-dioxane	1.309	1.251	4.4	89	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
4 s	1,4-dioxane-d8	0.396	0.407	-2.8	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172409.D
Acq On : 17 Jun 2024 7:20 pm
Operator : GCMS6:CSP
Sample : CQ606172401
Misc : WG1935770,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:15:01 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.131	64	22494	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.102	152	55253	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.131	64	22494	514.583	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 102.92%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.180	88	56269	955.356	ng/mL	100

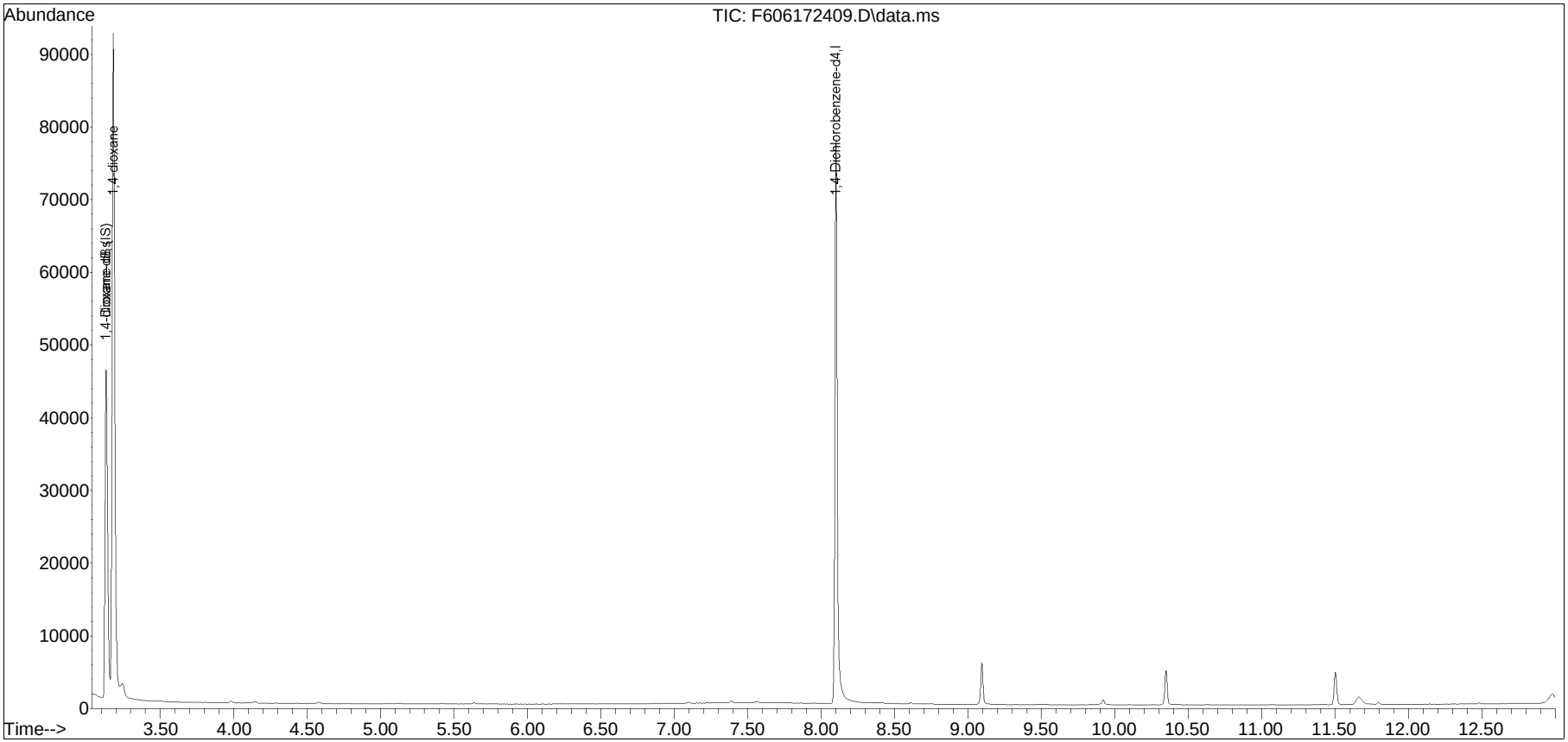
(#) = qualifier out of range (m) = manual integration (+) = signals summed

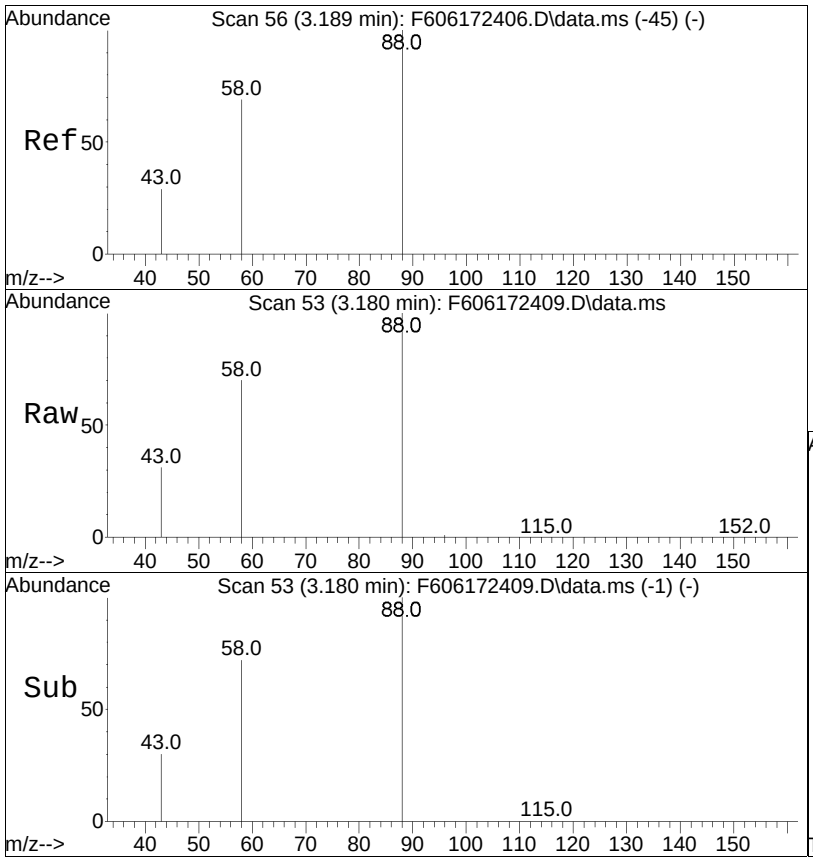
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\
Data File : F606172409.D
Acq On : 17 Jun 2024 7:20 pm
Operator : GCMS6:CSP
Sample : CQ606172401
Misc : WG1935770,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 18 09:15:01 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

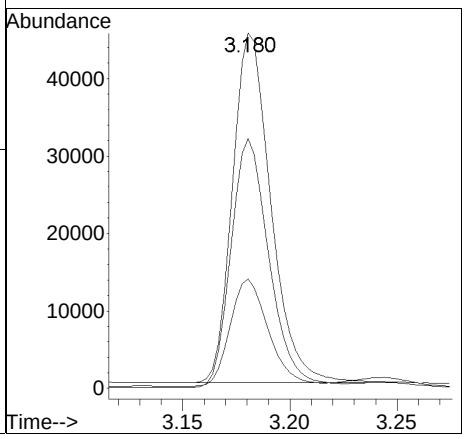




#2
1,4-dioxane
Concen: 955.36 ng/mL
RT: 3.180 min Scan# 53
Delta R.T. -0.008 min
Lab File: F606172409.D
Acq: 17 Jun 2024 7:20 pm

Tgt Ion: 88 Resp: 56269

Ion	Ratio	Lower	Upper
88	100		
58	71.2	56.9	85.3
43	30.8	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606172409.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/17/2024 7:20 pm	Instrument	: GCMS 6
Sample	: CQ606172401	Quant Date	: 6/18/2024 9:15 am

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

F606172409.D 14DIOX0617GCMS6.M Tue Jun 18 09:20:31 2024 RePage 1er

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GCMS6	**Calibration Date**	: 06/19/24 09:40		
Lab File ID	: F606192402	**Init. Calib. Date(s)**	: 06/17/24	06/17/24	
Sample No	: WG1936422-2	**Init. Calib. Times**	: 16:53	18:59	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	108	0
1,4-dioxane	1.309	1.274	-	2.7	20	109	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
1,4-dioxane-d8	0.396	0.373	-	5.8	20	115	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192402.D
Acq On : 19 Jun 2024 9:40 am
Operator : GCMS6:CSP
Sample : WG1936422-2
Misc : WG1936422,,ICAL21205,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 09:59:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	108	0.00
2	1,4-dioxane	1.309	1.274	2.7	109	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
4 s	1,4-dioxane-d8	0.396	0.373	5.8	115	0.00

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192402.D
Acq On : 19 Jun 2024 9:40 am
Operator : GCMS6:CSP
Sample : WG1936422-2
Misc : WG1936422,,ICAL21205,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 09:59:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.136	64	26998	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.107	152	72312	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.136	64	26998	471.917	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 94.38%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.186	88	68813	973.423	ng/mL	99

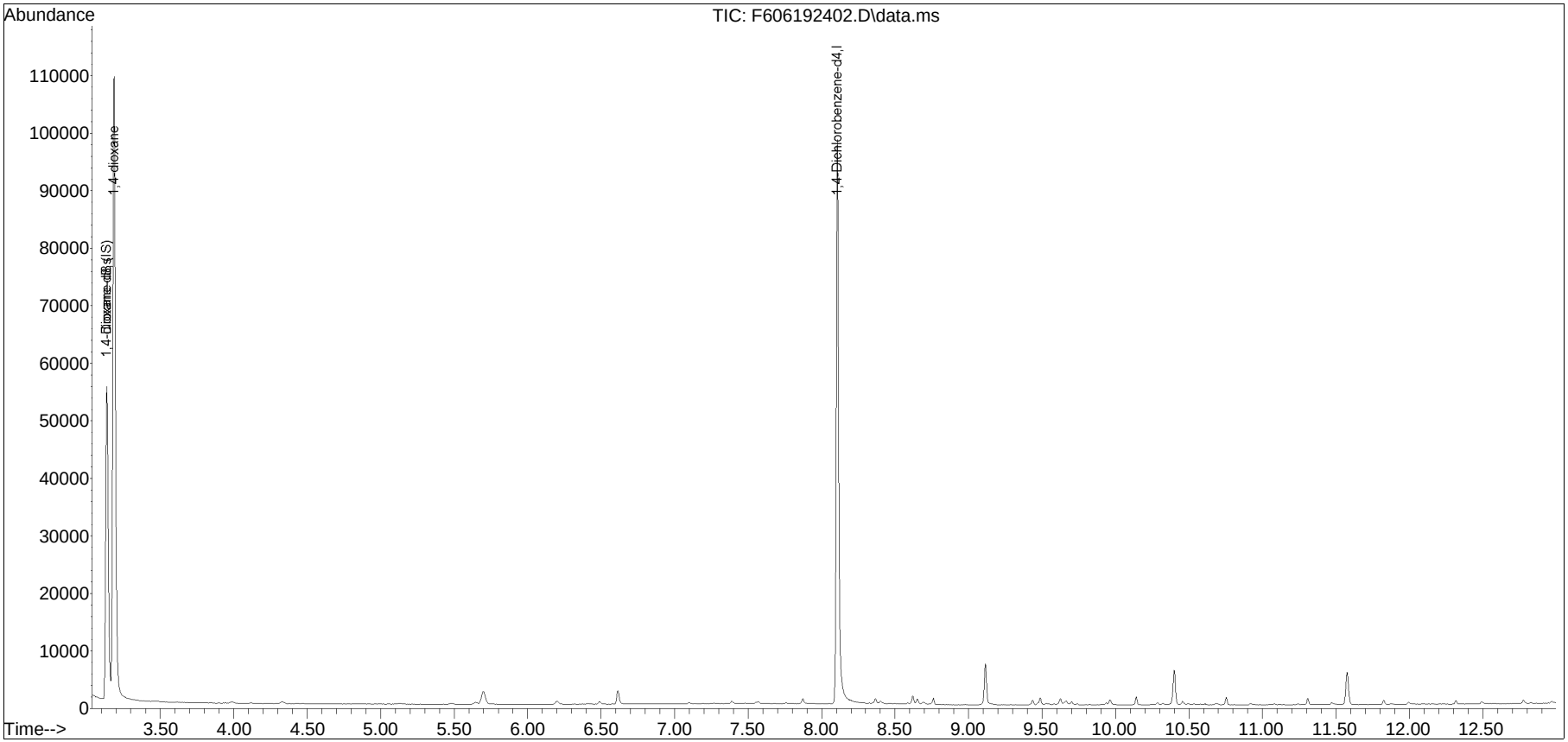
(#) = qualifier out of range (m) = manual integration (+) = signals summed

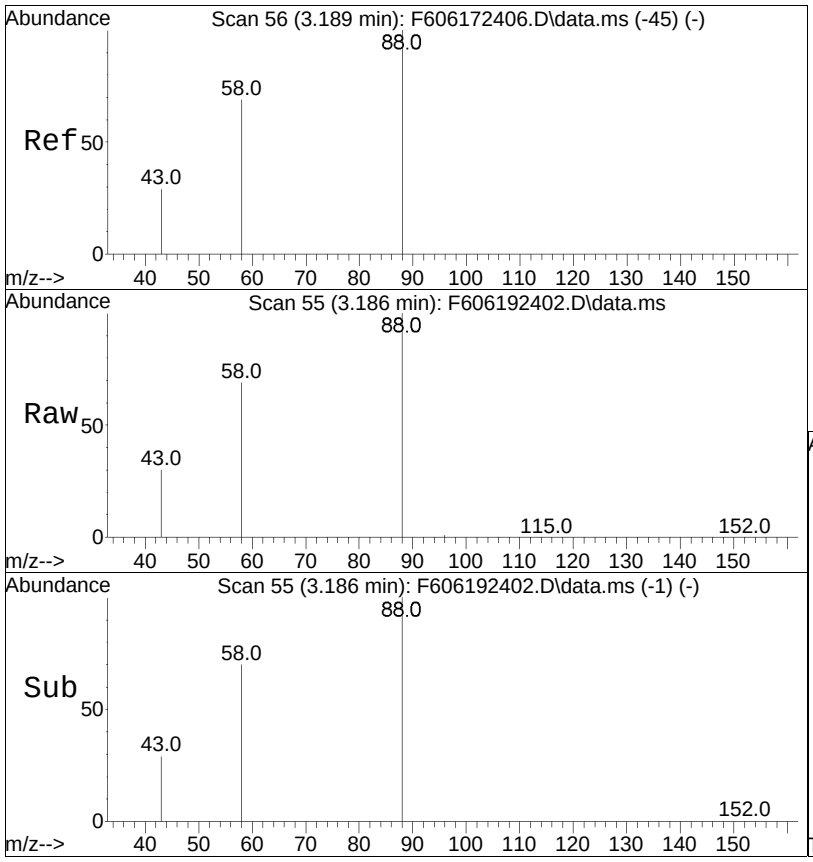
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192402.D
Acq On : 19 Jun 2024 9:40 am
Operator : GCMS6:CSP
Sample : WG1936422-2
Misc : WG1936422,,ICAL21205,MSBT54
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 09:59:04 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

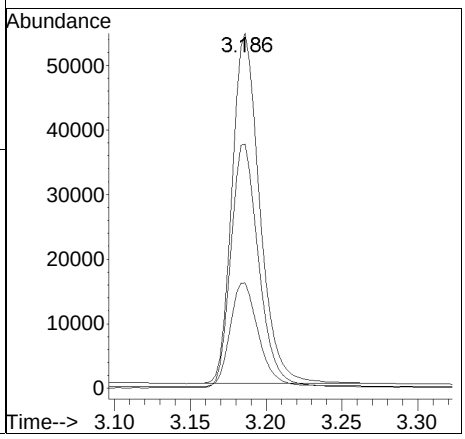




#2
1,4-dioxane
Concen: 973.42 ng/mL
RT: 3.186 min Scan# 55
Delta R.T. -0.003 min
Lab File: F606192402.D
Acq: 19 Jun 2024 9:40 am

Tgt Ion: 88 Resp: 68813

Ion	Ratio	Lower	Upper
88	100		
58	70.6	56.9	85.3
43	30.2	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192402.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 9:40 am	Instrument	: GCMS 6
Sample	: WG1936422-2	Quant Date	: 6/19/2024 9:59 am

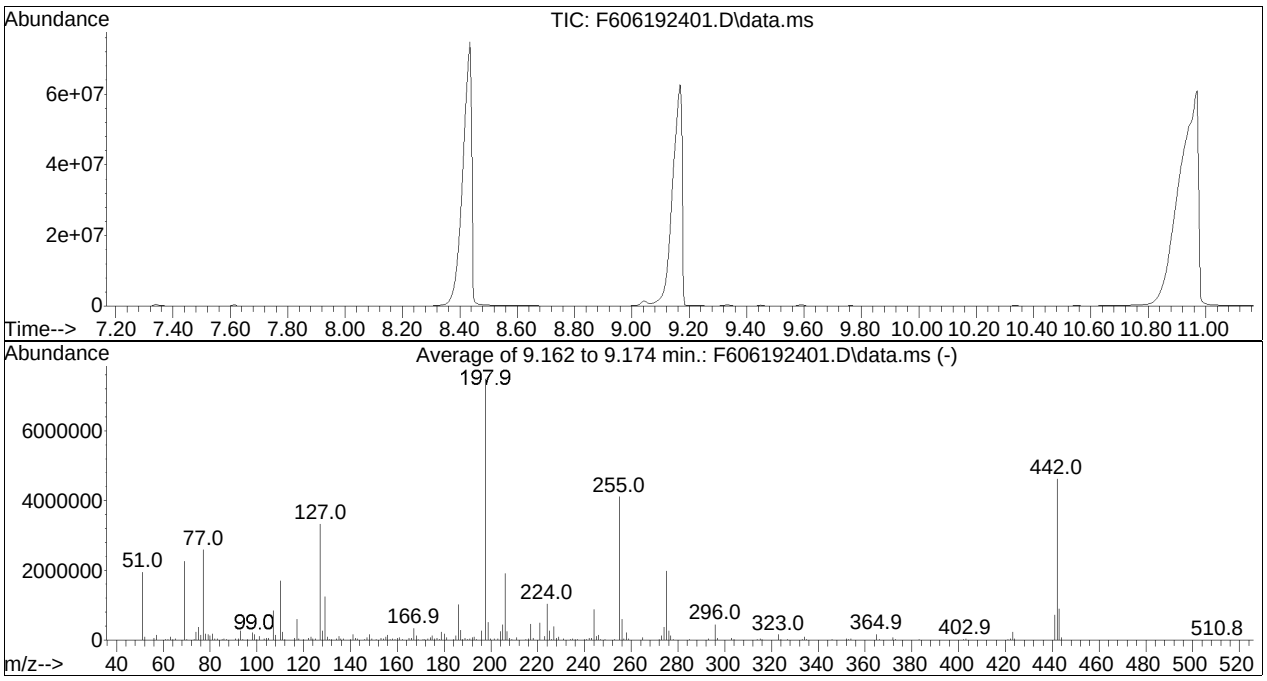
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192401.D
Acq On : 19 Jun 2024 9:02 am
Operator : GCMS6:CSP
Sample : WG1936422-1
Misc : WG1936422,,ICAL21205,MSBT75
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Title : Semivolatiles by GC/MS
Last Update : Tue Jun 18 09:14:05 2024



Spectrum Information: Average of 9.162 to 9.174 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	25.9	1941184	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	11566	PASS
127	198	10	80	44.4	3324928	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	7491883	PASS
199	198	5	9	6.9	516712	PASS
275	198	10	60	26.4	1974755	PASS
365	198	1	100	2.3	170917	PASS
441	442	0.01	24	15.5	713946	PASS
442	198	50	100	61.6	4617789	PASS
443	442	15	24	19.4	893941	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192403.D
Acq On : 19 Jun 2024 10:07 am
Operator : GCMS6:CSP
Sample : wg1935958-1,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 12:20:59 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.151	64	5977	500.000	ng/mL	0.01
3) 1,4-Dichlorobenzene-d4	8.108	152	50124	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.151	64	5977	150.724	ng/mL	0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 30.14%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

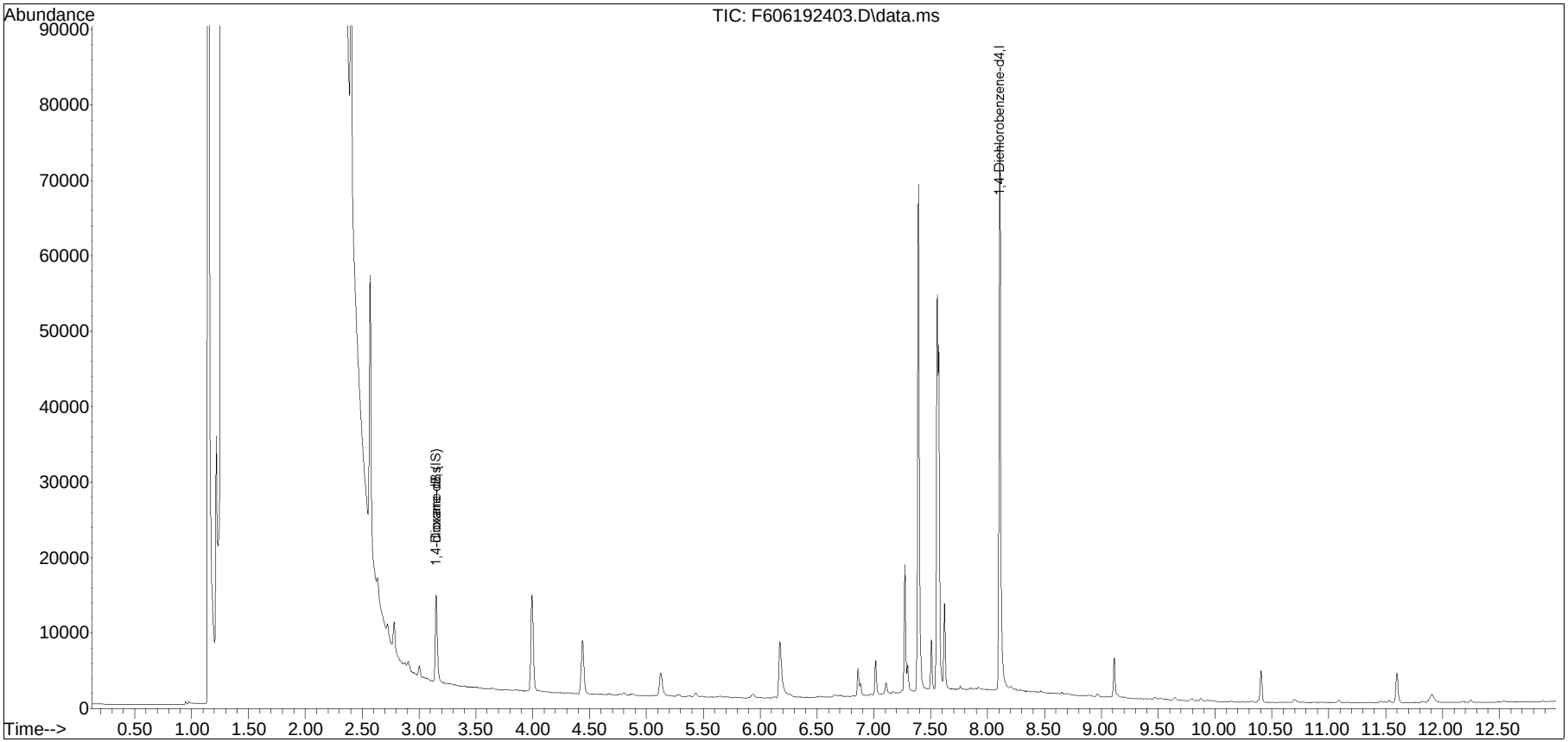
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192403.D
Acq On : 19 Jun 2024 10:07 am
Operator : GCMS6:CSP
Sample : wg1935958-1,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 12:20:59 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:14:05 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192403.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 10:07 am	Instrument	: GCMS 6
Sample	: wg1935958-1,32,,	Quant Date	: 6/19/2024 12:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192404.D
Acq On : 19 Jun 2024 10:28 am
Operator : GCMS6:CSP
Sample : wg1935958-2,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 12:20:25 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.158	64	6606	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.107	152	53134	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.158	64	6606	157.149	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 31.43%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.208	88	10991	635.421	ng/mL	99

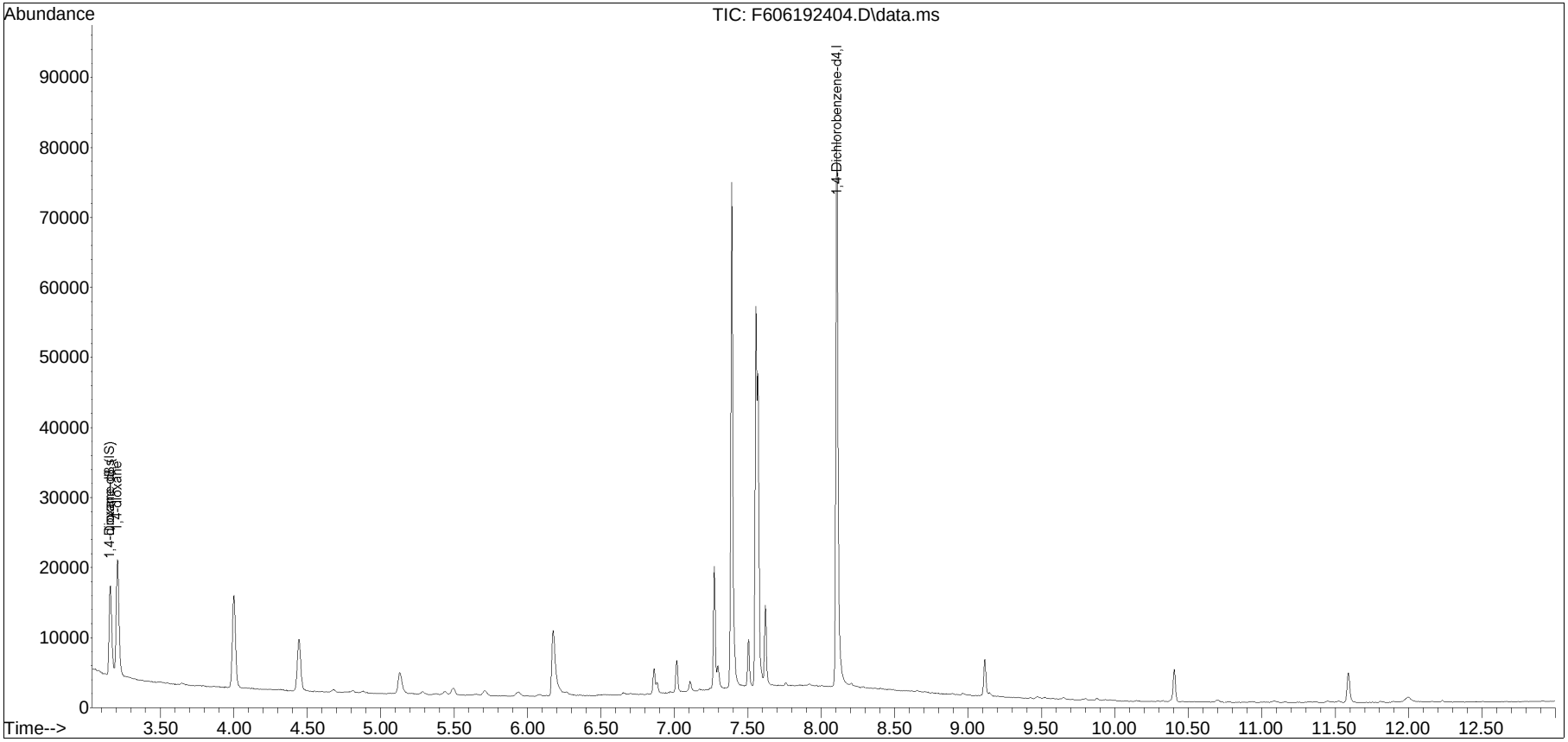
(#) = qualifier out of range (m) = manual integration (+) = signals summed

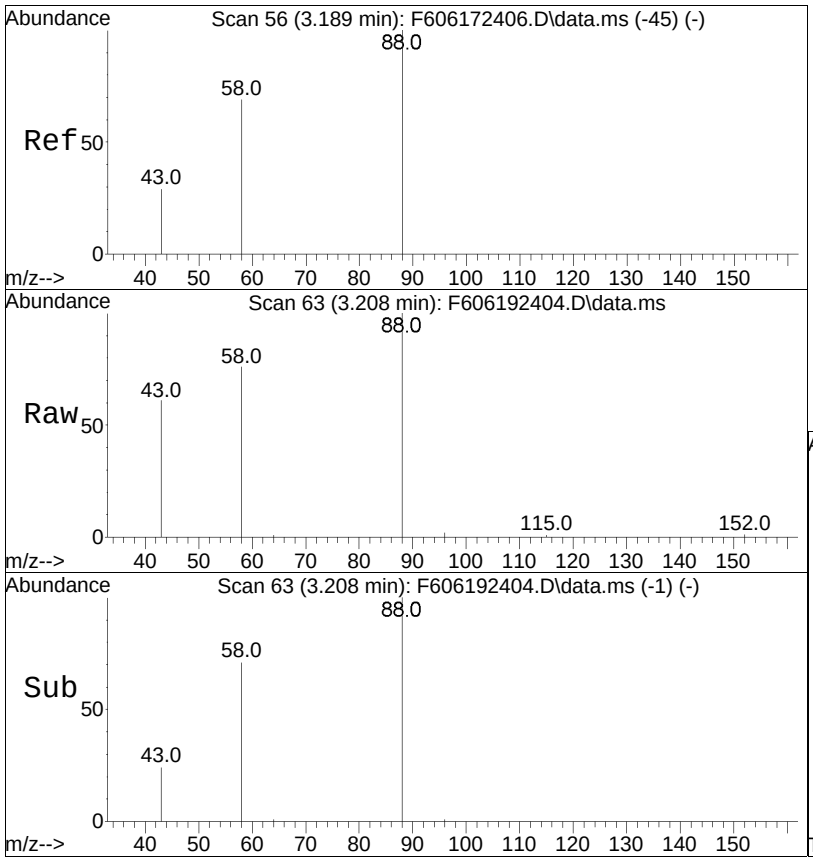
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192404.D
Acq On : 19 Jun 2024 10:28 am
Operator : GCMS6:CSP
Sample : wg1935958-2,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 12:20:25 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

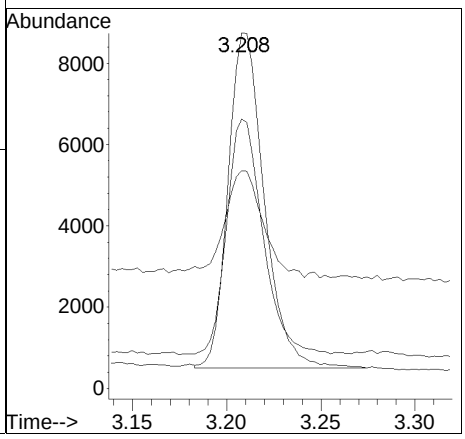




#2
1,4-dioxane
Concen: 635.42 ng/mL
RT: 3.208 min Scan# 63
Delta R.T. 0.019 min
Lab File: F606192404.D
Acq: 19 Jun 2024 10:28 am

Tgt Ion: 88 Resp: 10991

Ion	Ratio	Lower	Upper
88	100		
58	70.7	56.9	85.3
43	31.4	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192404.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 10:28 am	Instrument	: GCMS 6
Sample	: wg1935958-2,32,,	Quant Date	: 6/19/2024 12:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192405.D
Acq On : 19 Jun 2024 10:50 am
Operator : GCMS6:CSP
Sample : wg1935958-3,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 12:20:27 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.158	64	6613	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.107	152	53956	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.158	64	6613	154.918	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 30.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.208	88	11128	642.660	ng/mL	97

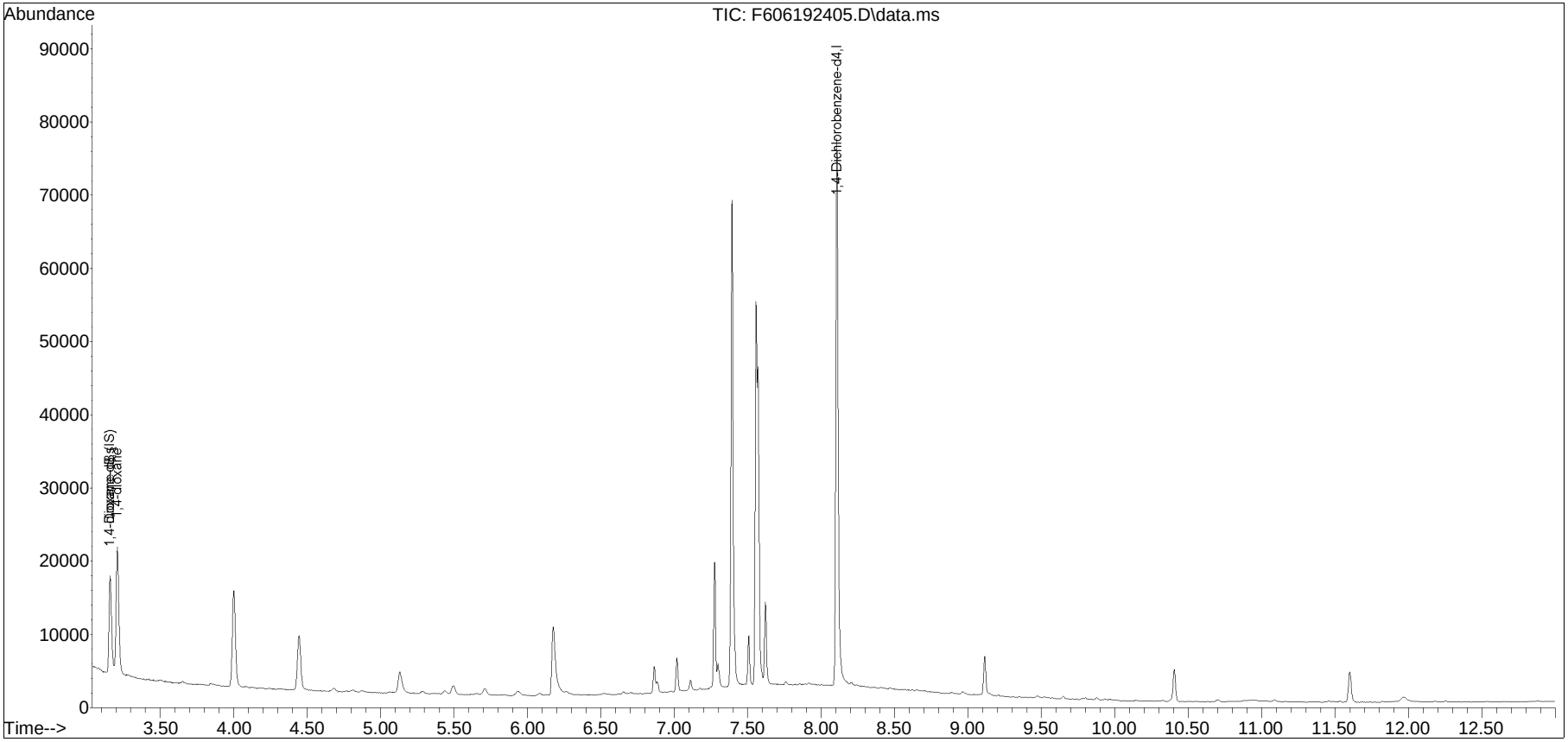
(#) = qualifier out of range (m) = manual integration (+) = signals summed

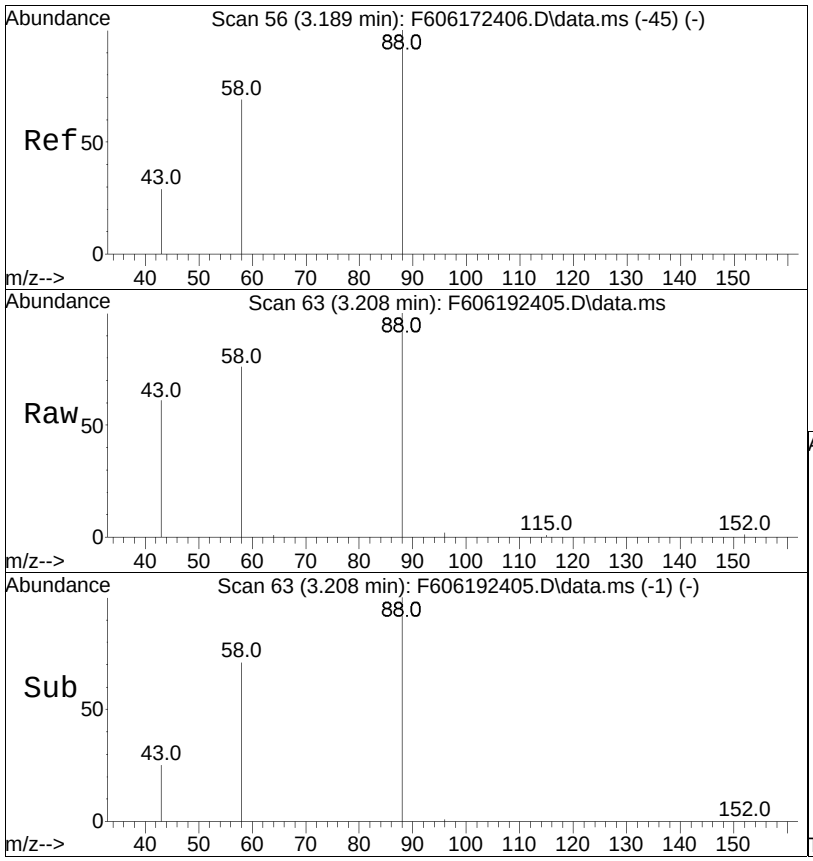
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192405.D
Acq On : 19 Jun 2024 10:50 am
Operator : GCMS6:CSP
Sample : wg1935958-3,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 12:20:27 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

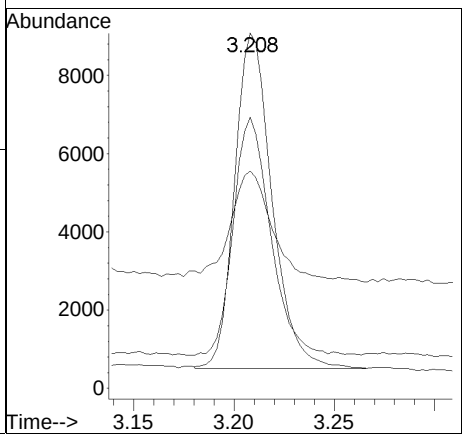




#2
1,4-dioxane
Concen: 642.66 ng/mL
RT: 3.208 min Scan# 63
Delta R.T. 0.019 min
Lab File: F606192405.D
Acq: 19 Jun 2024 10:50 am

Tgt Ion: 88 Resp: 11128

Ion	Ratio	Lower	Upper
88	100		
58	69.8	56.9	85.3
43	34.0	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192405.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 10:50 am	Instrument	: GCMS 6
Sample	: wg1935958-3,32,,	Quant Date	: 6/19/2024 12:20 pm

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

F606192405.D 14DIOX0617GCMS6.M Wed Jun 19 12:30:59 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192417.D
Acq On : 19 Jun 2024 3:17 pm
Operator : GCMS6:CSP
Sample : wg1935958-4,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 20 08:17:28 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.155	64	8503	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.124	152	60242	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.155	64	8503	178.409	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 35.68%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.208	88	13936	625.934	ng/mL	99

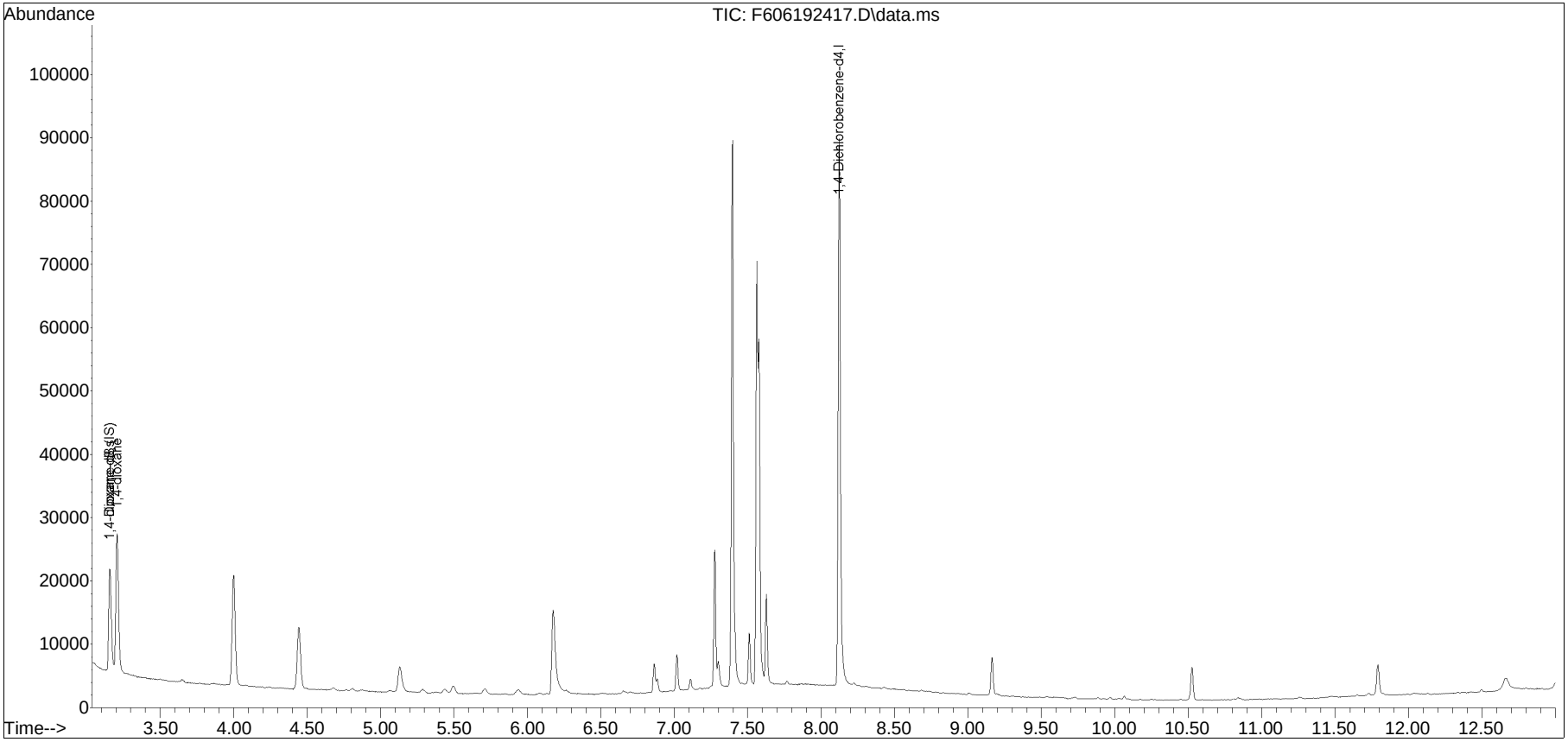
(#) = qualifier out of range (m) = manual integration (+) = signals summed

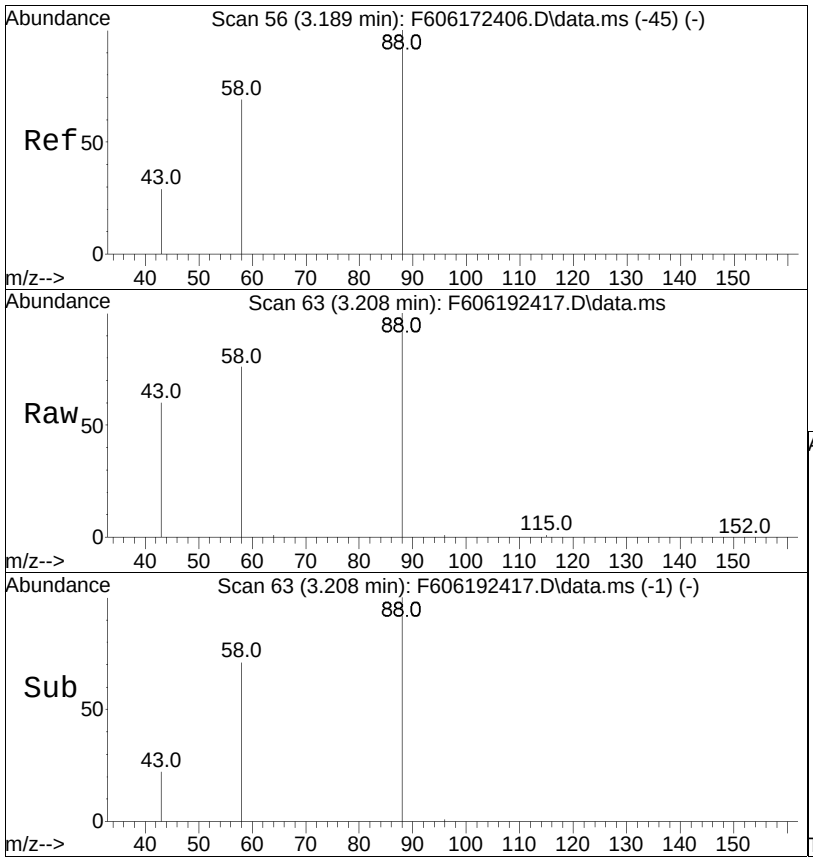
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192417.D
Acq On : 19 Jun 2024 3:17 pm
Operator : GCMS6:CSP
Sample : wg1935958-4,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 20 08:17:28 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

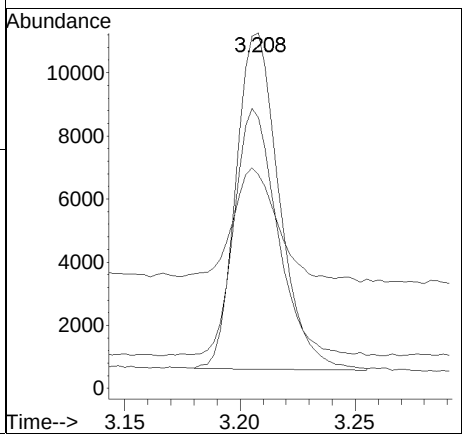




#2
1,4-dioxane
Concen: 625.93 ng/mL
RT: 3.208 min Scan# 63
Delta R.T. 0.019 min
Lab File: F606192417.D
Acq: 19 Jun 2024 3:17 pm

Tgt Ion: 88 Resp: 13936

Ion	Ratio	Lower	Upper
88	100		
58	71.2	56.9	85.3
43	31.8	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192417.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 3:17 pm	Instrument	: GCMS 6
Sample	: wg1935958-4,32,,	Quant Date	: 6/20/2024 8:17 am

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

F606192417.D 14DIOX0617GCMS6.M Thu Jun 20 09:35:06 2024 RePage 1er

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192418.D
Acq On : 19 Jun 2024 3:40 pm
Operator : GCMS6:CSP
Sample : wg1935958-5,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 20 08:17:30 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	3.172	64	9601	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	8.127	152	62533	500.000	ng/mL	0.02
System Monitoring Compounds						
4) 1,4-dioxane-d8	3.172	64	9601	194.067	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.81%			
Target Compounds						Qvalue
2) 1,4-dioxane	3.222	88	15529	617.717	ng/mL	98

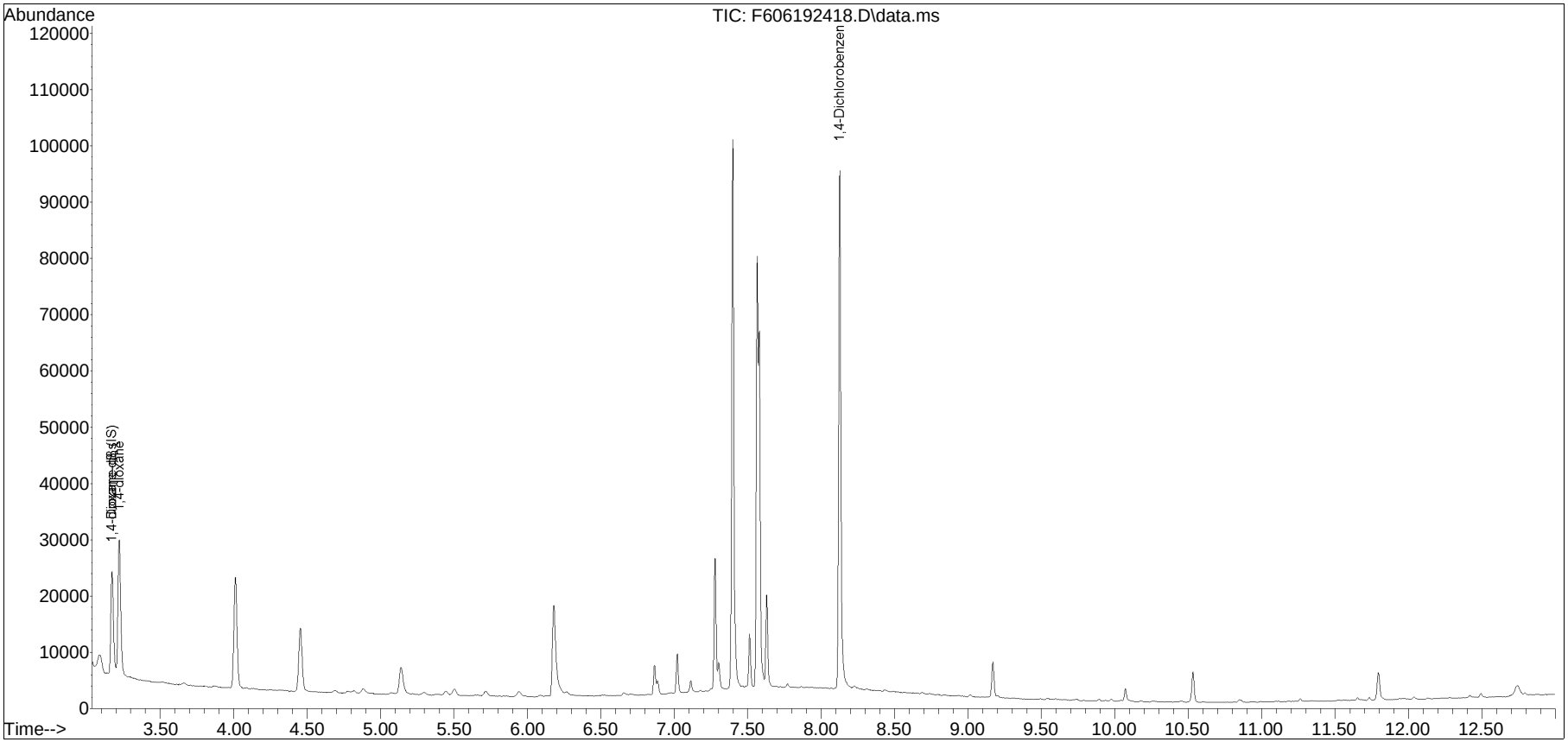
(#) = qualifier out of range (m) = manual integration (+) = signals summed

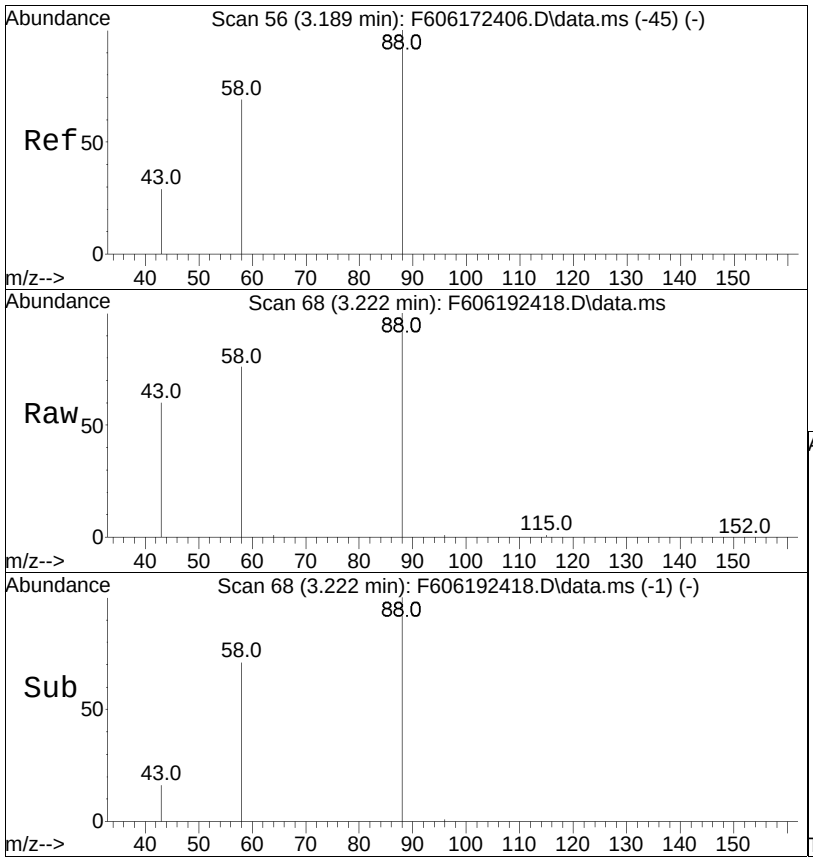
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\
Data File : F606192418.D
Acq On : 19 Jun 2024 3:40 pm
Operator : GCMS6:CSP
Sample : wg1935958-5,32,,
Misc : WG1936422,WG1935958,ICAL21205
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 20 08:17:30 2024
Quant Method : O:\Organics\DATA\GCMS6\2024\JUN\JUN19\14DIOX0617GCMS6.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Tue Jun 18 09:16:35 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

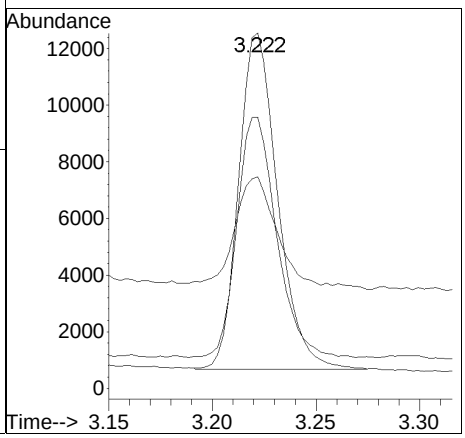




#2
1,4-dioxane
Concen: 617.72 ng/mL
RT: 3.222 min Scan# 68
Delta R.T. 0.033 min
Lab File: F606192418.D
Acq: 19 Jun 2024 3:40 pm

Tgt Ion: 88 Resp: 15529

Ion	Ratio	Lower	Upper
88	100		
58	71.4	56.9	85.3
43	33.0	24.6	36.8



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\GCMS6\2024Q	Method	: 14DIOX0617GCMS6.M
Data File	: F606192418.D	Operator	: GCMS6:CSP
Date Inj'd	: 6/19/2024 3:40 pm	Instrument	: GCMS 6
Sample	: wg1935958-5,32,,	Quant Date	: 6/20/2024 8:17 am

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

F606192418.D 14DIOX0617GCMS6.M Thu Jun 20 09:35:08 2024 RePage 1er

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 12:11 pm

Work Group: WG1936422 for Department: 32 GC/MS - Semivolatiles

Created: 19-JUN-24 Due: Operator: CSP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433035-01	MW-8S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-02	MW-8D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-03	MW-1SR	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-04	MW-1DR2	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-05	MP-1	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-06	MP-1D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-07	PZ-6	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-08	MW-6D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-09	EB_06122024	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433035-10	DUP_06122024	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0619	0627	S0	Amber-A.25
L2433420-04	MW-24-20240613	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0619	S0	Amber-A.25
L2433420-05	MW-25-20240613	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0619	S0	Amber-A.25
L2433420-06	MW-40-20240613	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0620	0619	S0	Amber-A.25
L2433525-01	MW-1	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0620	S0	Amber-A.25
L2433525-02	MW-2	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0620	S0	Amber-A.25
L2433525-09	MW-7	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0620	S0	Amber-A.25
L2433525-13	MW-11	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0620	S0	Amber-A.25
L2433525-14	MW-12	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0619	0620	S0	Amber-A.25
L2433795-01	2406-17374-001	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0620	0708	S0	Amber-A.25
WG1935948-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1935948-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1935948-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1935958-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1935958-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1935958-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1935958-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1935958-5	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1935960-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1935960-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1935960-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936422-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1936422-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1936422-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936422-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1936422-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1936422-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				

Comments:

WG1935948-3	WG1935948-2
WG1935958-3	WG1935958-2
WG1935958-4	L2433035-03
WG1935958-5	L2433035-03
WG1935960-3	WG1935960-2

Analysis log File

Total Files Reported in Log : 9
Log Generated From Directory: O:\Organics\DATA\GCMS6\2024\JUN\JUN17A\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F606172401.D	DFTPPGCMS6.M	T606172401	WG1935770,MSBT75	6/17/2024 4:20 pm
2	F606172402.D	GCMS614DX@1U	I606172401	WG1935770,MSBT54	6/17/2024 4:53 pm
3	F606172403.D	GCMS614DX@1U	I606172402	WG1935770,MSBT55	6/17/2024 5:14 pm
4	F606172404.D	GCMS614DX@1U	I606172403	WG1935770,MSBT56	6/17/2024 5:35 pm
5	F606172405.D	GCMS614DX@1U	I606172404	WG1935770,MSBT57	6/17/2024 5:56 pm
6	F606172406.D	GCMS614DX@1U	I606172405	WG1935770,MSBT91	6/17/2024 6:17 pm
7	F606172407.D	GCMS614DX@1U	I606172406	WG1935770,MSBT59	6/17/2024 6:38 pm
8	F606172408.D	GCMS614DX@1U	I606172407	WG1935770,MSBT53	6/17/2024 6:59 pm
9	F606172409.D	GCMS614DX@1U	CQ606172401	WG1935770,MSBU02	6/17/2024 7:20 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 27
Log Generated From Directory: O:\Organics\DATA\GCMS6\2024\JUN\JUN19\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F606192401.D	DFTPPGCMS6.M	WG1936422-1	WG1936422,,ICAL21205,MS..	6/19/2024 9:02 am
2	F606192402.D	GCMS614DX@1U	WG1936422-2	WG1936422,,ICAL21205,MS..	6/19/2024 9:40 am
3	F606192403.D	GCMS614DX@1U	wg1935960-1,32,,	WG1936422,WG1935960,ICA..	6/19/2024 10:07 am
4	F606192404.D	GCMS614DX@1U	wg1935960-2,32,,	WG1936422,WG1935960,ICA..	6/19/2024 10:28 am
5	F606192405.D	GCMS614DX@1U	wg1935960-3,32,,	WG1936422,WG1935960,ICA..	6/19/2024 10:50 am
6	F606192406.D	GCMS614DX@1U	l2433420-04,32,,	WG1936422,WG1935960,ICA..	6/19/2024 11:11 am
7	F606192407.D	GCMS614DX@1U	l2433420-05,32,,	WG1936422,WG1935960,ICA..	6/19/2024 11:33 am
8	F606192408.D	GCMS614DX@1U	l2433420-06,32,,	WG1936422,WG1935960,ICA..	6/19/2024 11:55 am
9	F606192409.D	GCMS614DX@1U	l2433525-01,32,,	WG1936422,WG1935960,ICA..	6/19/2024 12:17 pm
10	F606192410.D	GCMS614DX@1U	l2433525-02,32,,	WG1936422,WG1935960,ICA..	6/19/2024 12:39 pm
11	F606192411.D	GCMS614DX@1U	l2433525-06,32,,	SEE 2X DL	6/19/2024 1:01 pm
12	F606192412.D	GCMS614DX@1U	l2433525-09,32,,	WG1936422,WG1935960,ICA..	6/19/2024 1:24 pm
13	F606192413.D	GCMS614DX@1U	l2433525-13,32,,	WG1936422,WG1935960,ICA..	6/19/2024 1:47 pm
14	F606192414.D	GCMS614DX@1U	l2433525-14,32,,	WG1936422,WG1935960,ICA..	6/19/2024 2:09 pm
15	F606192415.D	GCMS614DX@1U	l2433035-02,32,,	WG1936422,WG1935958,ICA..	6/19/2024 2:32 pm
16	F606192416.D	GCMS614DX@1U	l2433035-03,32,,	WG1936422,WG1935958,ICA..	6/19/2024 2:55 pm
17	F606192417.D	GCMS614DX@1U	wg1935958-4,32,,	WG1936422,WG1935958,ICA..	6/19/2024 3:17 pm
18	F606192418.D	GCMS614DX@1U	wg1935958-5,32,,	WG1936422,WG1935958,ICA..	6/19/2024 3:40 pm
19	F606192419.D	GCMS614DX@1U	l2433035-04,32,,	WG1936422,WG1935958,ICA..	6/19/2024 4:05 pm
20	F606192420.D	GCMS614DX@1U	l2433035-05,32,,	WG1936422,WG1935958,ICA..	6/19/2024 4:29 pm
21	F606192421.D	GCMS614DX@1U	l2433035-06,32,,	WG1936422,WG1935958,ICA..	6/19/2024 4:52 pm
22	F606192422.D	GCMS614DX@1U	l2433035-07,32,,	WG1936422,WG1935958,ICA..	6/19/2024 5:15 pm
23	F606192423.D	GCMS614DX@1U	l2433035-08,32,,	WG1936422,WG1935958,ICA..	6/19/2024 5:38 pm
24	F606192424.D	GCMS614DX@1U	l2433035-09,32,,	WG1936422,WG1935958,ICA..	6/19/2024 6:01 pm
25	F606192425.D	GCMS614DX@1U	l2433035-10,32,,	WG1936422,WG1935958,ICA..	6/19/2024 6:24 pm
26	F606192426.D	GCMS614DX@1U	l2433795-01,32,,	WG1936422,WG1935948,ICA..	6/19/2024 6:47 pm
27	F606192427.D	GCMS614DX@1U	l2433035-01,32,,	WG1936422,WG1935958,ICA..	6/19/2024 7:09 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1935958

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI524-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBT34
Spike Type: 1,4-DIOXANE **Lot #:** MSBT35
Spike Verify by: AMC
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Na2SO4	ON061224A
Glass Wool	06323999

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: EI405-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433035-01 SAMP	06/18/24 17:00	Gregory Fernberg	265	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-02 SAMP	06/18/24 17:00	Gregory Fernberg	265	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-03 SAMP	06/18/24 17:00	Gregory Fernberg	255	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-04 SAMP	06/18/24 17:00	Gregory Fernberg	265	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-05 SAMP	06/18/24 17:00	Gregory Fernberg	265	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-06 SAMP	06/18/24 17:00	Gregory Fernberg	275	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-07 SAMP	06/18/24 17:00	Gregory Fernberg	240	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5

Reported: 20-JUN-24 12:11 PM

ORGANIC ELN REPORT

Workgroup: WG1935958

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433035-08 SAMP	06/18/24 17:00	Gregory Fernberg	200	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
	Low volume sample 6/18/24 GMF									
L2433035-09 SAMP	06/18/24 17:00	Gregory Fernberg	255	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
L2433035-10 SAMP	06/18/24 17:00	Gregory Fernberg	265	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
WG1935958-1 BLANK	06/18/24 17:00	Gregory Fernberg	250	7	.25		06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
	QCs shared between WG1935960_58_48 GMF 6/18/24									
WG1935958-2 LCS	06/18/24 17:00	Gregory Fernberg	250	7	.25	.25	06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
WG1935958-3 LCSD	06/18/24 17:00	Gregory Fernberg	250	7	.25	.25	06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
WG1935958-4 MS	06/18/24 17:00	Gregory Fernberg	250	7	.25	.25	06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5
WG1935958-5 MSD	06/18/24 17:00	Gregory Fernberg	245	7	.25	.25	06/18/24 20:00	Gavin Aldrich	2.5	SEVAP 5

Reported: 20-JUN-24 12:11 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2433035-01)	64	63	--	--			0
MW-8D (L2433035-02)	69	68	--	--			0
MW-1SR (L2433035-03)	71	69	--	--			0
MW-1DR2 (L2433035-04)	86	81	--	--			0
MP-1 (L2433035-05)	89	81	--	--			0
MP-1D (L2433035-06)	79	72	--	--			0
PZ-6 (L2433035-07)	83	76	--	--			0
MW-6D (L2433035-08)	91	84	--	--			0
EB_06122024 (L2433035-09)	67	66	--	--			0
DUP_06122024 (L2433035-10)	64	63	--	--			0
WG1935934-1BLANK	98	89	--	--			0
WG1935934-2LCS	75	85	--	--			0
WG1935934-3LCSD	97	106	--	--			0
MW-1SRMS	67	71	--	--			0
MW-1SRMSD	80	93	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935934-2 **Analysis Date** : 06/19/24 14:21	**File ID**	: 22240619a-22
LCSD Sample ID	: WG1935934-3 **Analysis Date** : 06/19/24 14:40	**File ID**	: 22240619a-23

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	641P	128	500	798P	160 Q	22	30-150	25
MCPA	500	502	100	500	633	126	23	30-150	25
Dalapon	5	3.50	70	5	4.10	82	16	30-150	25
Dicamba	5	3.94	79	5	4.78	96	19	30-150	25
Dichloroprop	5	3.69	74	5	4.62	92	22	30-150	25
2,4-D	5	3.80	76	5	4.61	92	19	30-150	25
2,4-DB	5	4.04	81	5	5.30	106	27 Q	30-150	25
2,4,5-T	5	4.31	86	5	5.08	102	17	30-150	25
2,4,5-TP (Silvex)	5	3.88	78	5	4.66	93	18	30-150	25
Dinoseb	5	4.07	81	5	5.23	105	26 Q	30-150	25

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/19/24 16:50
Matrix Spike	: WG1935934-4	**MS Analysis Date**	: 06/19/24 17:08
Matrix Spike Dup	: WG1935934-5	**MSD Analysis Date**	: 06/19/24 17:27

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	ND	500	598	120	500	704	141	16	30-150	25
MCPA	ND	500	571	114	500	594	119	4	30-150	25
Dalapon	ND	5	3.15J	63	5	3.48J	70	10	30-150	25
Dicamba	ND	5	3.62	72	5	4.34	87	18	30-150	25
Dichloroprop	ND	5	3.41J	68	5	4.03J	81	17	30-150	25
2,4-D	ND	5	3.42J	68	5	4.09J	82	18	30-150	25
2,4-DB	ND	5	3.82J	76	5	4.28J	86	11	30-150	25
2,4,5-T	ND	5	3.92	78	5	4.62	92	16	30-150	25
2,4,5-TP (Silvex)	ND	5	3.65	73	5	4.18	84	14	30-150	25
Dinoseb	ND	5	3.32J	66	5	4.07J	81	20	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935934-1	**Lab File ID**	: 22240619a-21
Matrix	: WATER	**Extraction Date**	: 06/18/24
Analysis Date (1)	: 06/19/24 14:02	**Analysis Date (2)**	: 06/19/24 14:02
Instrument ID (1)	: PEST22	**Instrument ID (2)**	: PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1935934-2LCS	WG1935934-2	06/19/24 14:21	06/19/24 14:21
WG1935934-3LCSD	WG1935934-3	06/19/24 14:40	06/19/24 14:40
MW-8S	L2433035-01	06/19/24 16:12	06/19/24 16:12
MW-8D	L2433035-02	06/19/24 16:31	06/19/24 16:31
MW-1SR	L2433035-03	06/19/24 16:50	06/19/24 16:50
MW-1SRMS	WG1935934-4	06/19/24 17:08	06/19/24 17:08
MW-1SRMSD	WG1935934-5	06/19/24 17:27	06/19/24 17:27
MW-1DR2	L2433035-04	06/19/24 17:45	06/19/24 17:45
MP-1	L2433035-05	06/19/24 18:23	06/19/24 18:23
MP-1D	L2433035-06	06/19/24 18:41	06/19/24 18:41
PZ-6	L2433035-07	06/19/24 19:00	06/19/24 19:00
MW-6D	L2433035-08	06/19/24 19:18	06/19/24 19:18
EB_06122024	L2433035-09	06/19/24 19:37	06/19/24 19:37
DUP_06122024	L2433035-10	06/19/24 19:55	06/19/24 19:55

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 04/12/24 04/12/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1816363-1	04/12/24 06:35
Herbicides L2	R1816363-2	04/12/24 06:54
Herbicides L3	R1816363-3	04/12/24 07:12
Herbicides L4	R1816363-4	04/12/24 07:31
Herbicides L5	R1816363-5	04/12/24 07:49
Herbicides L6	R1816363-6	04/12/24 08:08
R1816363-7 ICV	R1816363-7	04/12/24 08:26
WG1936304-2 CCAL	WG1936304-2	06/19/24 13:07
WG1935934-1 BLANK	WG1935934-1	06/19/24 14:02
WG1935934-2 LCS	WG1935934-2	06/19/24 14:21
WG1935934-3 LCSD	WG1935934-3	06/19/24 14:40
MW-8S	L2433035-01	06/19/24 16:12
MW-8D	L2433035-02	06/19/24 16:31
MW-1SR	L2433035-03	06/19/24 16:50
MW-1SR MS	WG1935934-4	06/19/24 17:08
MW-1SR MSD	WG1935934-5	06/19/24 17:27
MW-1DR2	L2433035-04	06/19/24 17:45
WG1936304-3 CCAL	WG1936304-3	06/19/24 18:04
MP-1	L2433035-05	06/19/24 18:23
MP-1D	L2433035-06	06/19/24 18:41
PZ-6	L2433035-07	06/19/24 19:00
MW-6D	L2433035-08	06/19/24 19:18
EB_06122024	L2433035-09	06/19/24 19:37
DUP_06122024	L2433035-10	06/19/24 19:55

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container / Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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

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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:12
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-28	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:31
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-29	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 16:50
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-30	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 17:45
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-33	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-35	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 18:41
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-36	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:00
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-37	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:18
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-38	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:37
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-39	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 19:55
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-40	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935934-1	**Date Collected**	: NA
Client ID	: WG1935934-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 14:02
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240619a-21	**Analyst**	: EJL
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:12 pm
Operator : pest22:ejl
Sample : L2433035-01,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:52 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.530	8.527	780.4E6	793.4E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 883326324				Recovery =	88.35%	
	Standard Area 1 : #2 = 891276115				Recovery =	89.01%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.989	7.457	205.3E6	203.2E6	0.320M4	0.316M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	64.00%	63.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D.	N.D.
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D.
6) t	MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

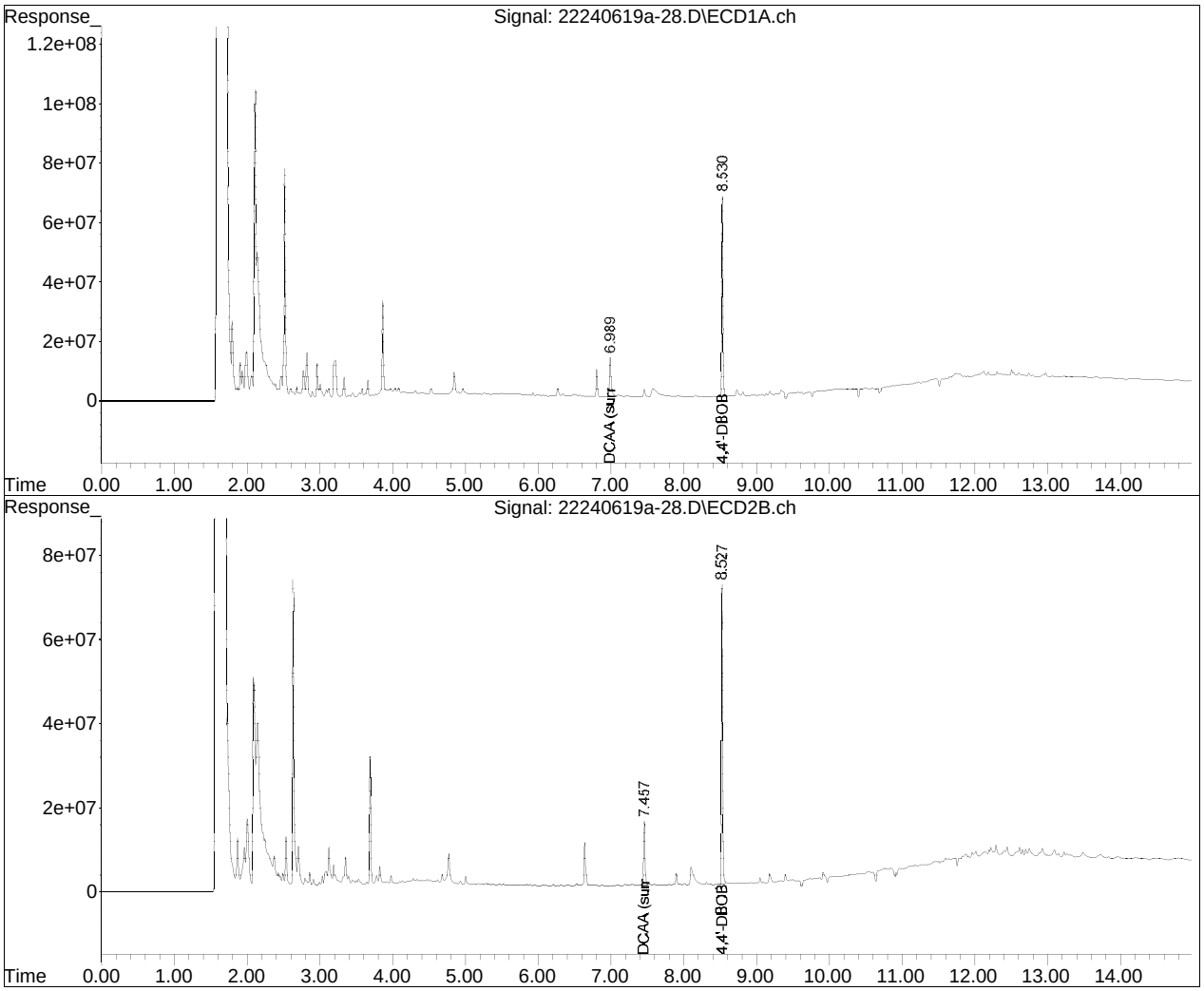
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:12 pm
Operator : pest22:ejl
Sample : L2433035-01,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:52 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

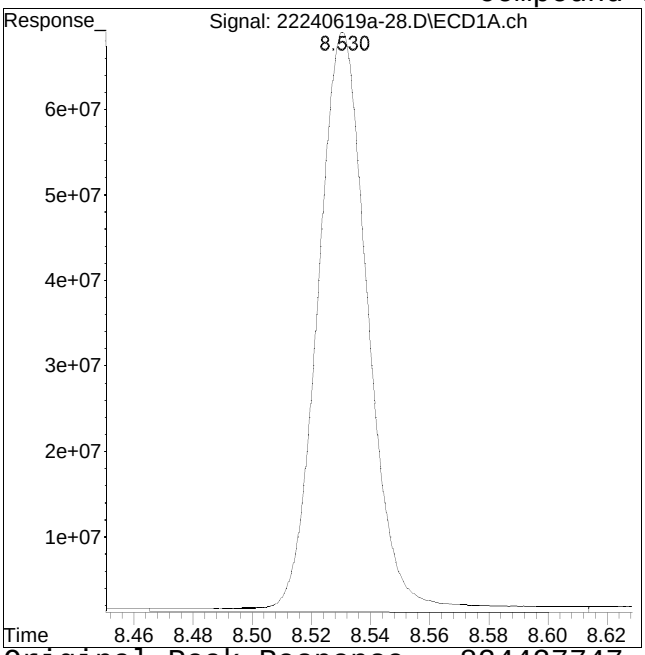
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



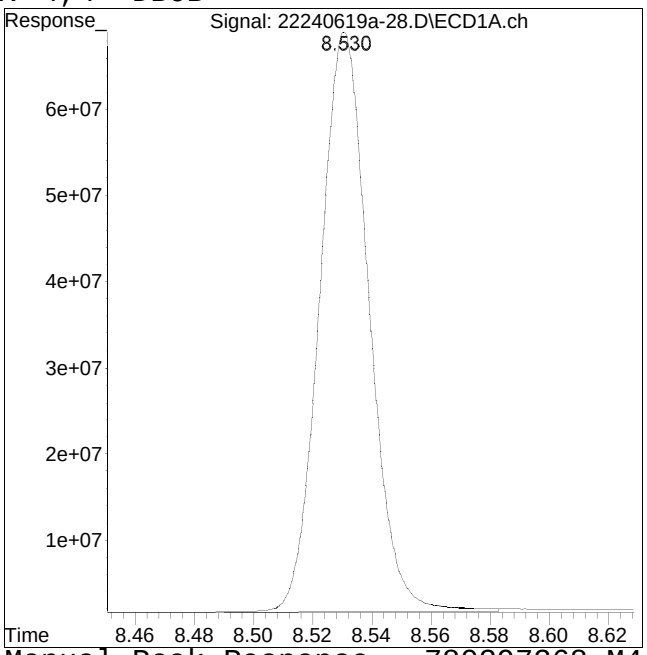
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-28.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:12 pm Instrument : Pest22
Sample : L2433035-01,42,, Quant Date : 6/19/2024 6:02 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 824427747



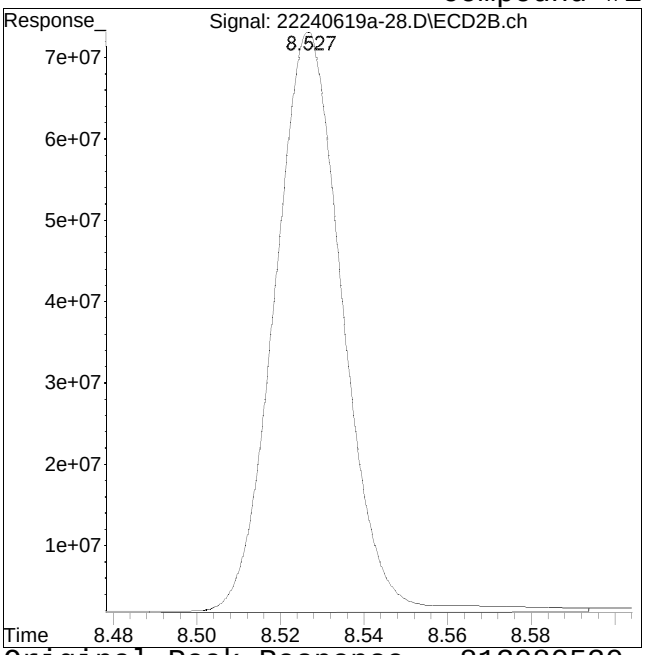
Manual Peak Response = 780397368 M4

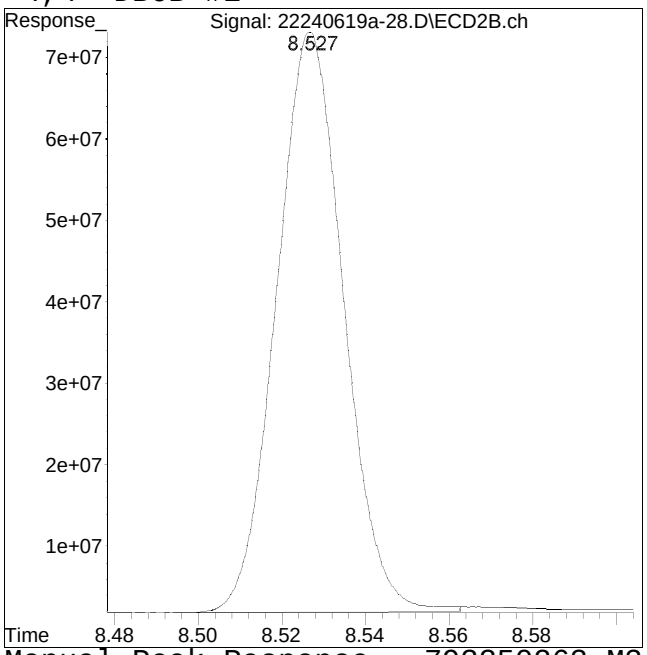
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-28.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:12 pm Instrument : Pest22
Sample : L2433035-01,42,, Quant Date : 6/19/2024 6:02 pm

Compound #14: 4,4'-DBOB #2



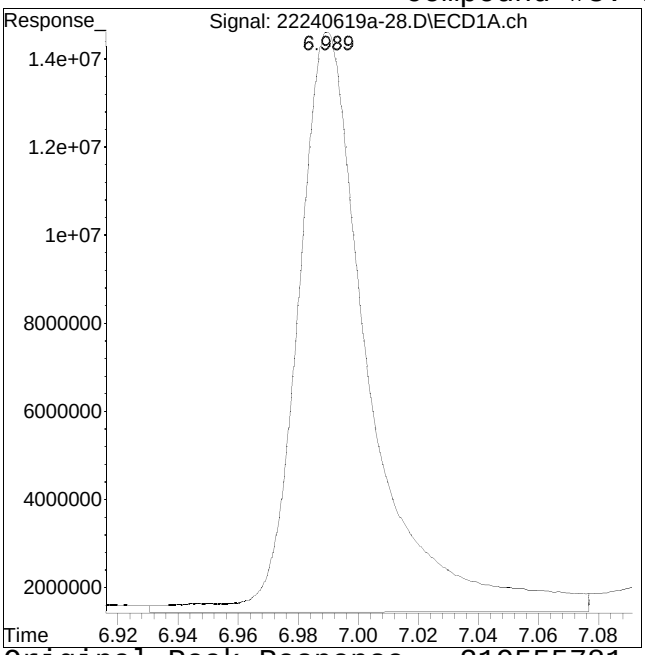


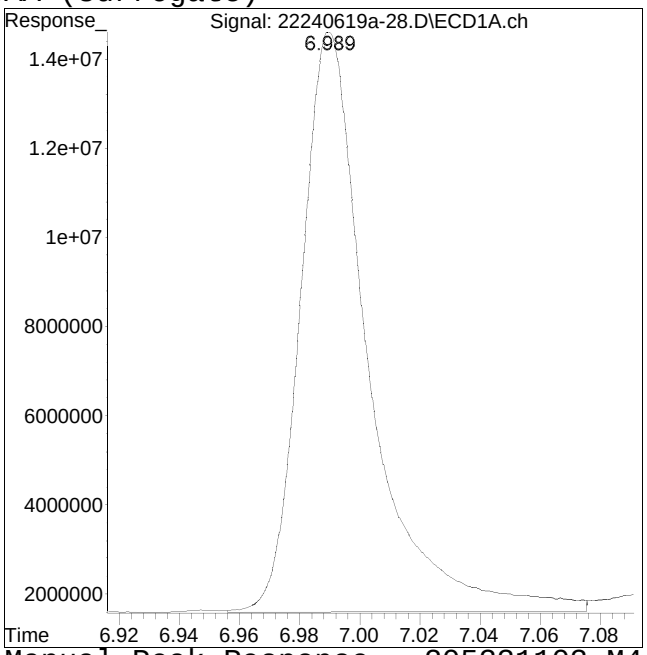
Original Peak Response = 813080530 Manual Peak Response = 793350263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-28.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:12 pm Instrument : Pest22
Sample : L2433035-01,42,, Quant Date : 6/19/2024 6:02 pm

Compound #3: DCAA (surrogate)



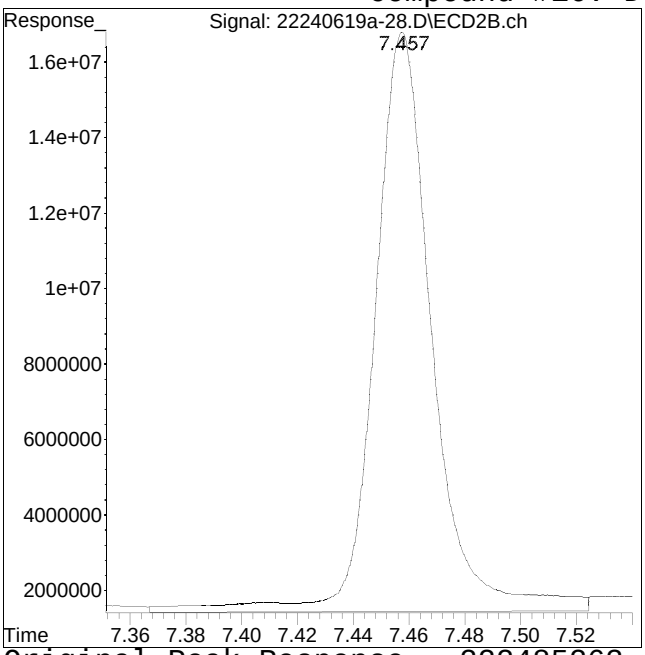


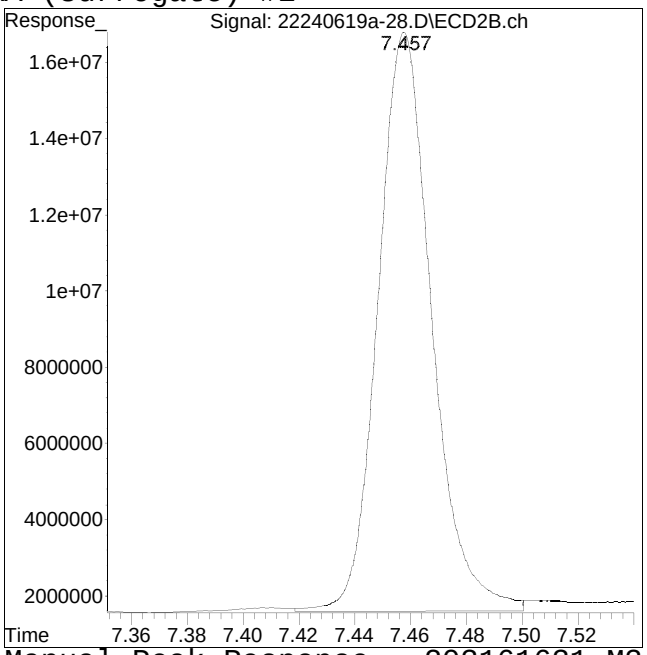
Original Peak Response = 219555781 Manual Peak Response = 205331103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-28.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:12 pm Instrument : Pest22
Sample : L2433035-01,42,, Quant Date : 6/19/2024 6:02 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 222485263 Manual Peak Response = 203161631 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:31 pm
Operator : pest22:ejl
Sample : L2433035-02,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:54 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.531	8.527	792.6E6	814.0E6	0.250M3	0.250M3
	Standard Area 1 : #1 = 883326324				Recovery =	89.73%	
	Standard Area 1 : #2 = 891276115				Recovery =	91.33%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.990	7.458	223.8E6	223.4E6	0.343M4	0.339
	Spiked Amount	0.500	Range 30 - 150		Recovery =	68.60%	67.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D.	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D.
6) t	MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D.
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

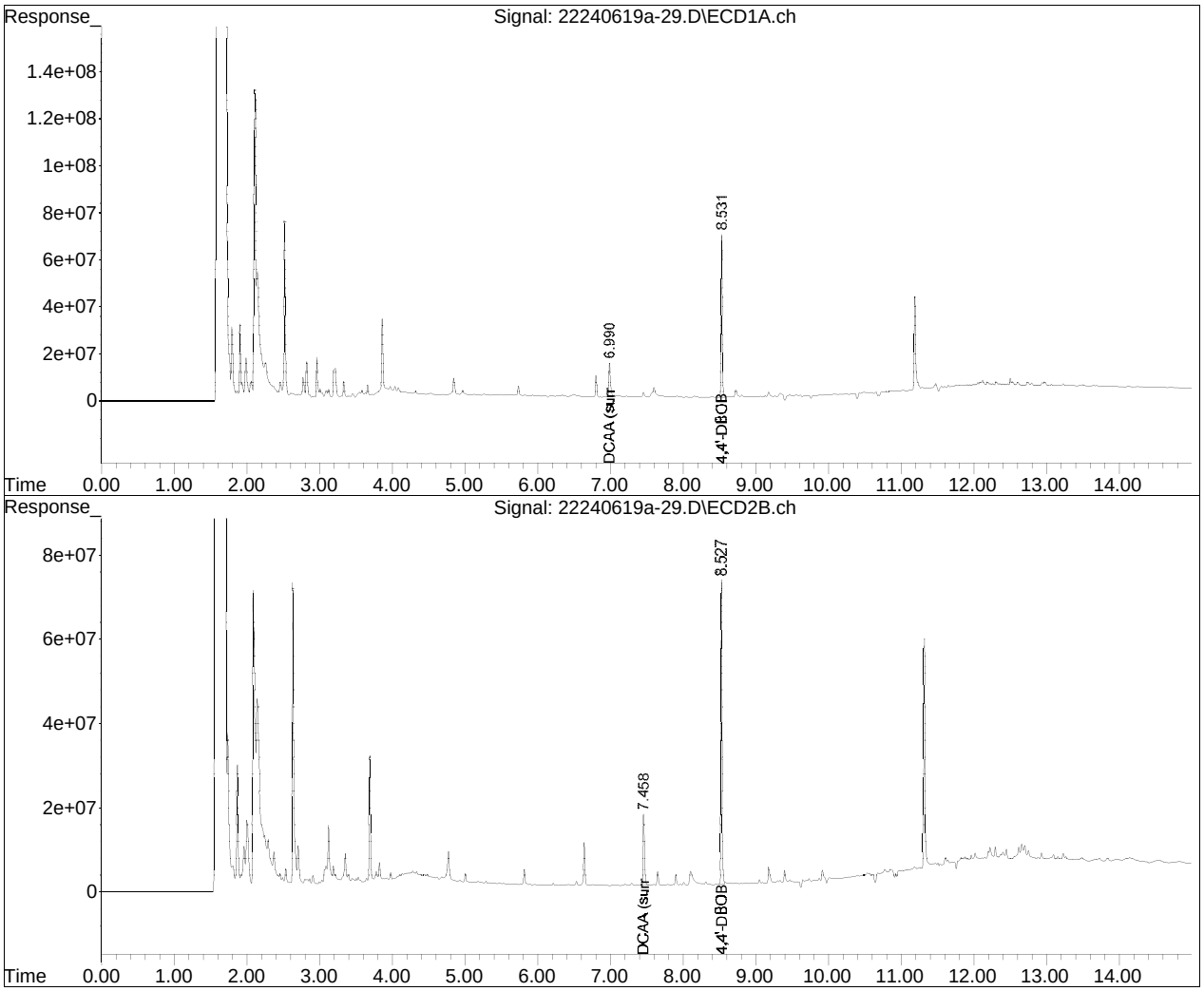
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:31 pm
Operator : pest22:ejl
Sample : L2433035-02,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:54 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

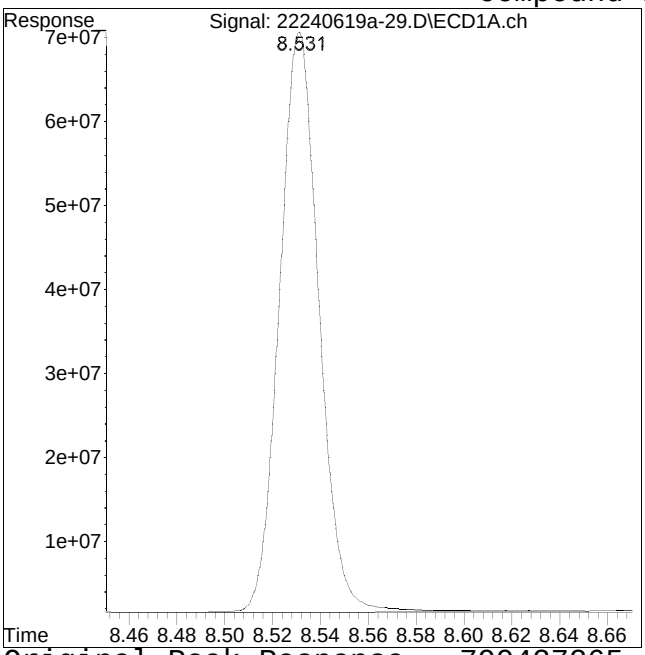
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

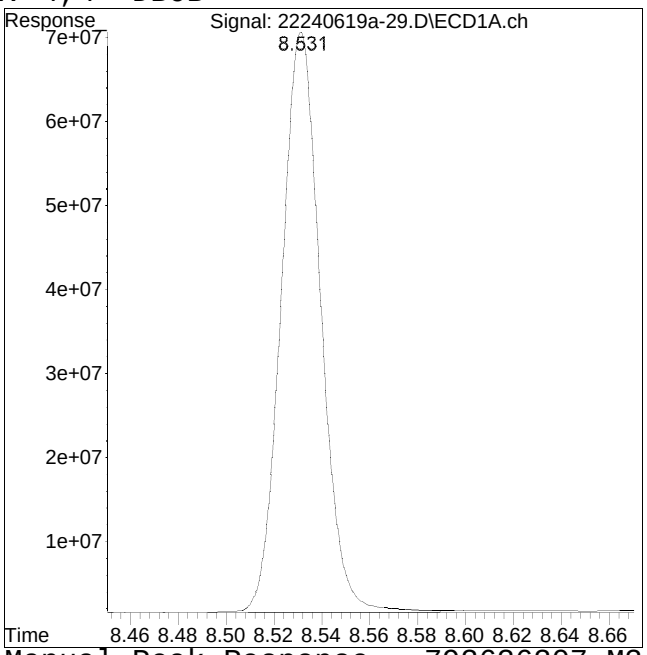


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-29.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:31 pm Instrument : Pest22
Sample : L2433035-02,42,, Quant Date : 6/19/2024 6:02 pm

Compound #1: 4,4'-DBOB



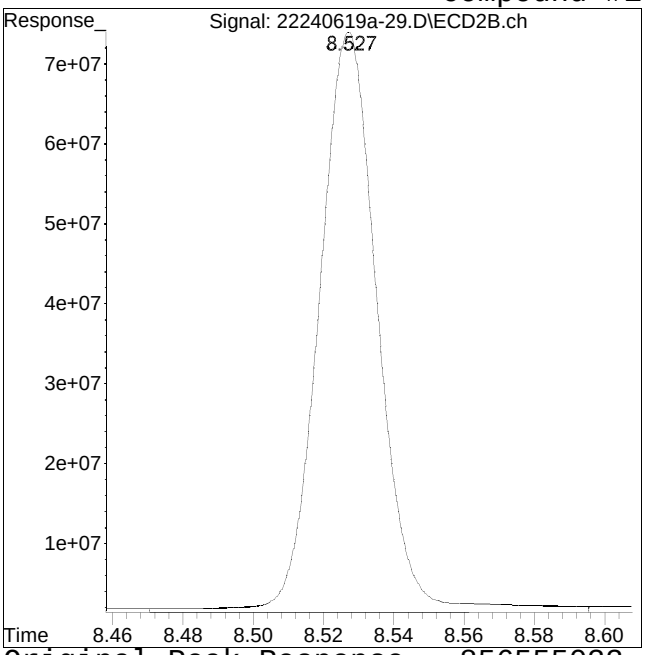


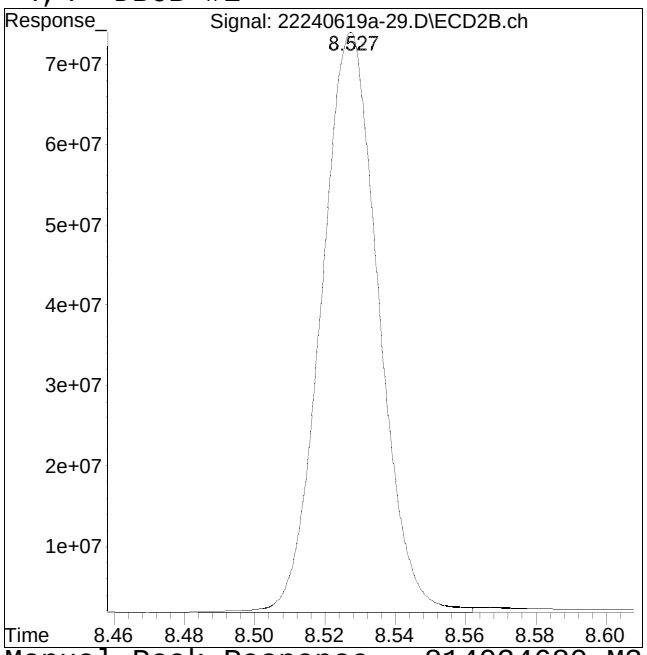
Original Peak Response = 799427265 Manual Peak Response = 792636307 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-29.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:31 pm Instrument : Pest22
Sample : L2433035-02,42,, Quant Date : 6/19/2024 6:02 pm

Compound #14: 4,4'-DBOB #2



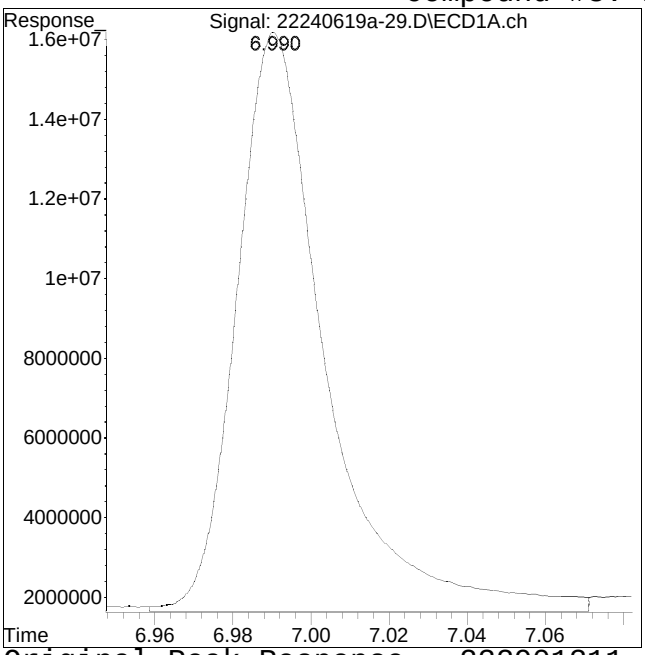


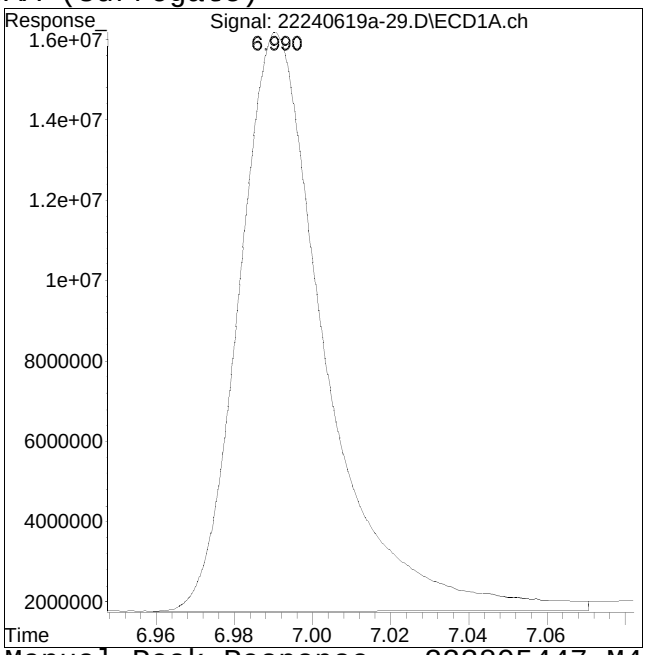
Original Peak Response = 856555033 Manual Peak Response = 814024680 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-29.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:31 pm Instrument : Pest22
Sample : L2433035-02,42,, Quant Date : 6/19/2024 6:02 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 232901311 Manual Peak Response = 223805447 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:50 pm
Operator : pest22:ejl
Sample : L2433035-03,42,, p
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:55 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	775.7E6	801.3E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	87.82%	
	Standard Area 1 : #2 = 891276115				Recovery =	89.91%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.991	7.458	225.3E6	223.7E6	0.353M4	0.345M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	70.60%	69.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

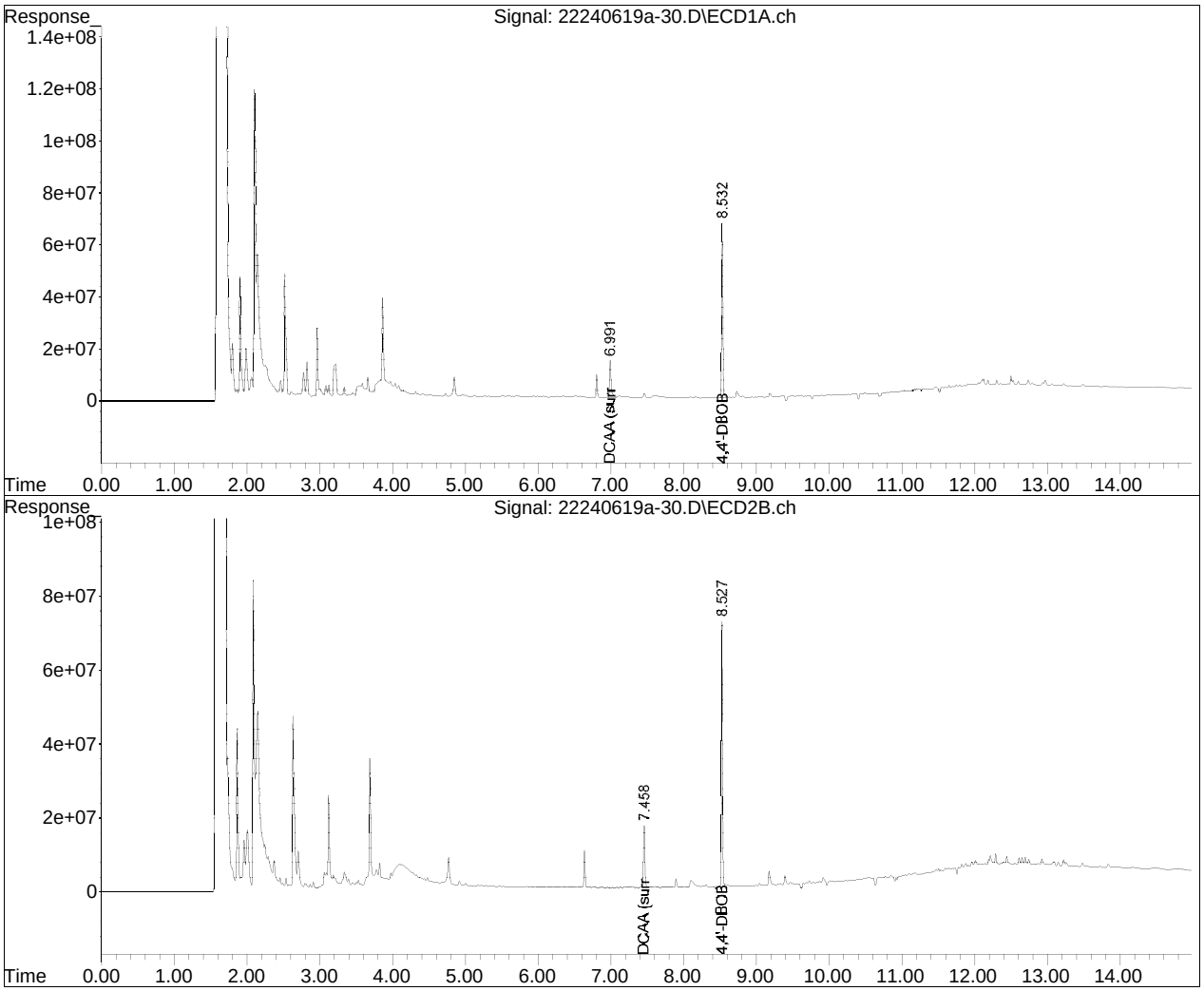
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 04:50 pm
Operator : pest22:ejl
Sample : L2433035-03,42,, p
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:55 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

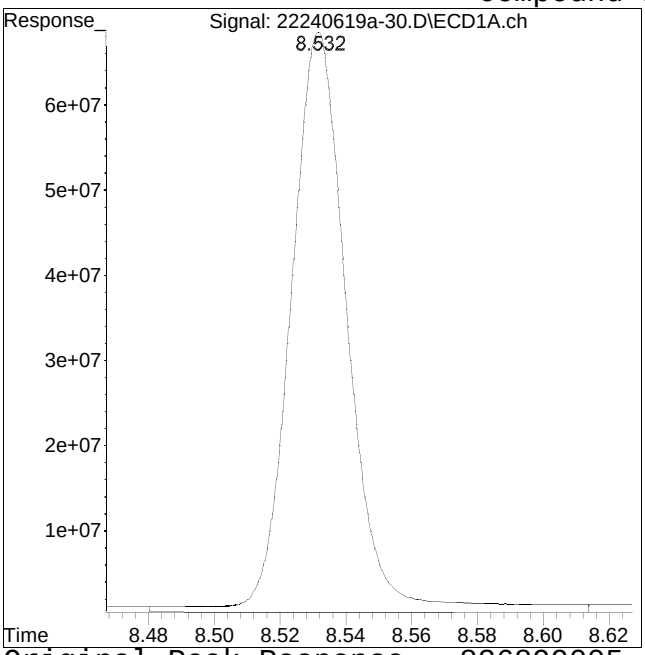
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



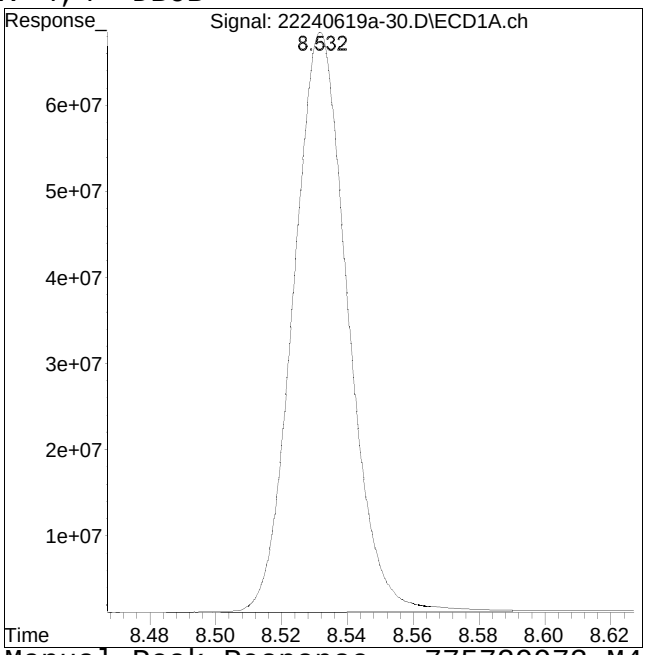
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-30.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:50 pm Instrument : Pest22
Sample : L2433035-03,42,, p Quant Date : 6/19/2024 6:02 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 836899005



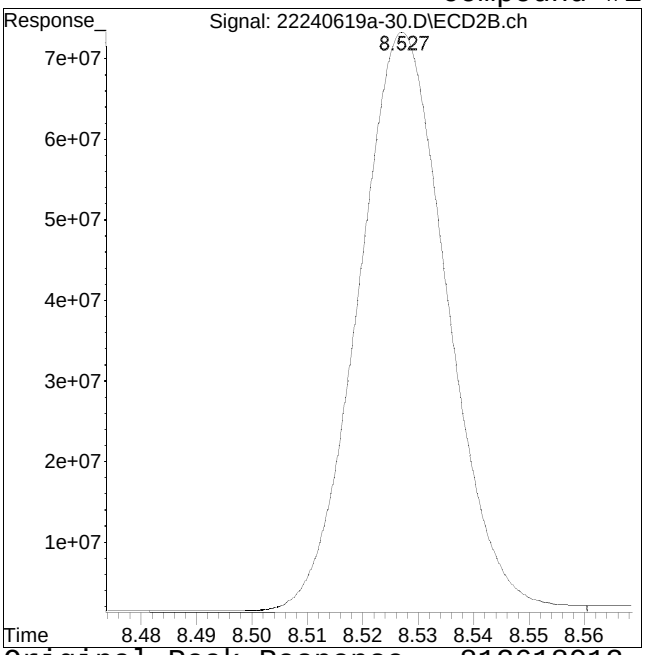
Manual Peak Response = 775729973 M4

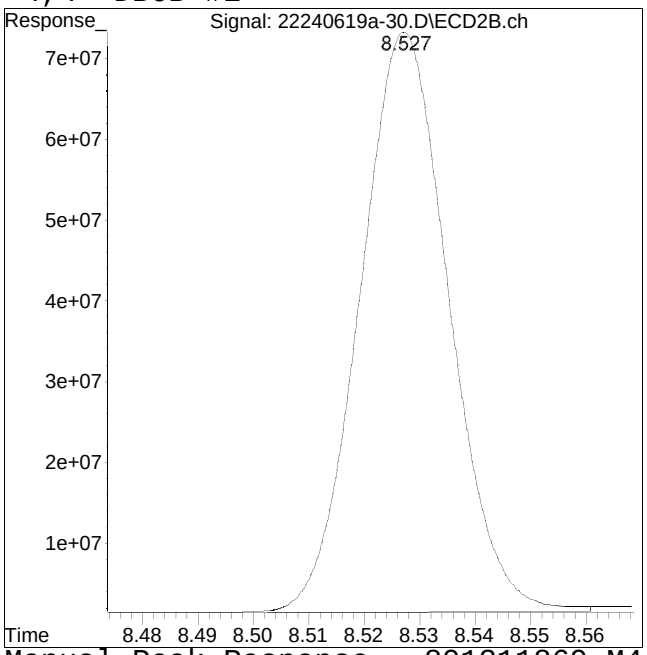
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-30.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:50 pm Instrument : Pest22
Sample : L2433035-03,42,, p Quant Date : 6/19/2024 6:02 pm

Compound #14: 4,4'-DBOB #2



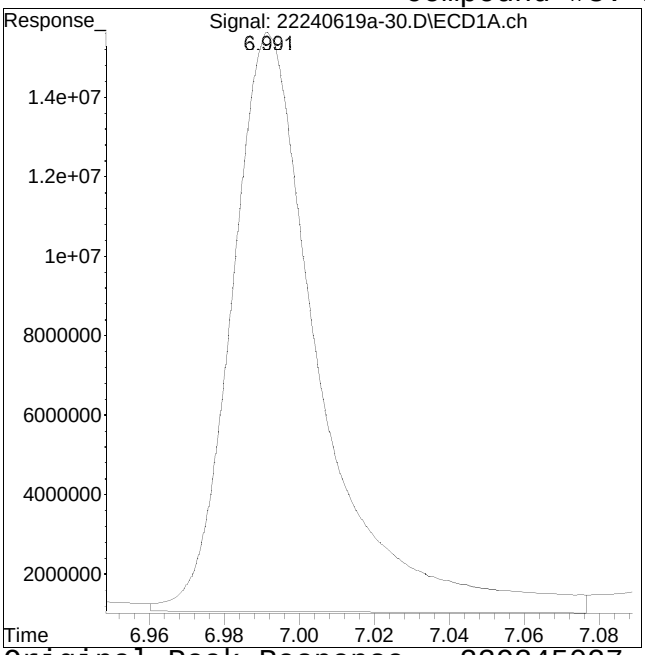


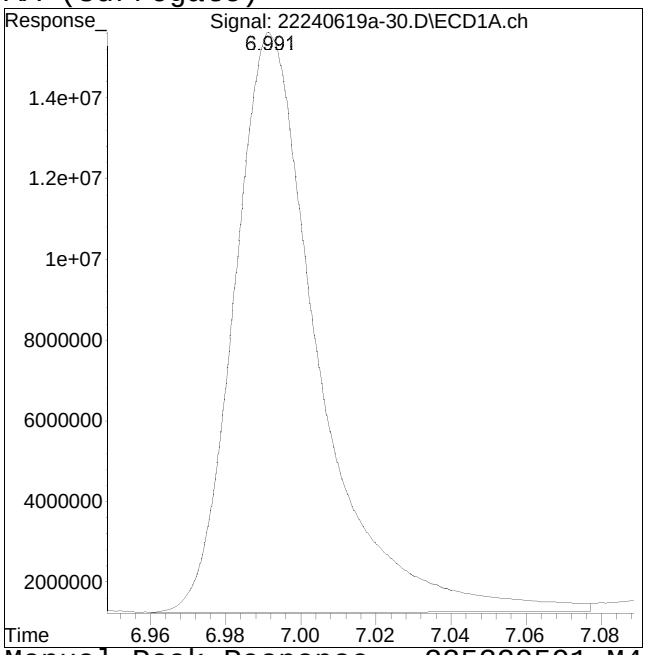
Original Peak Response = 812618912 Manual Peak Response = 801311869 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-30.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:50 pm Instrument : Pest22
Sample : L2433035-03,42,, p Quant Date : 6/19/2024 6:02 pm

Compound #3: DCAA (surrogate)



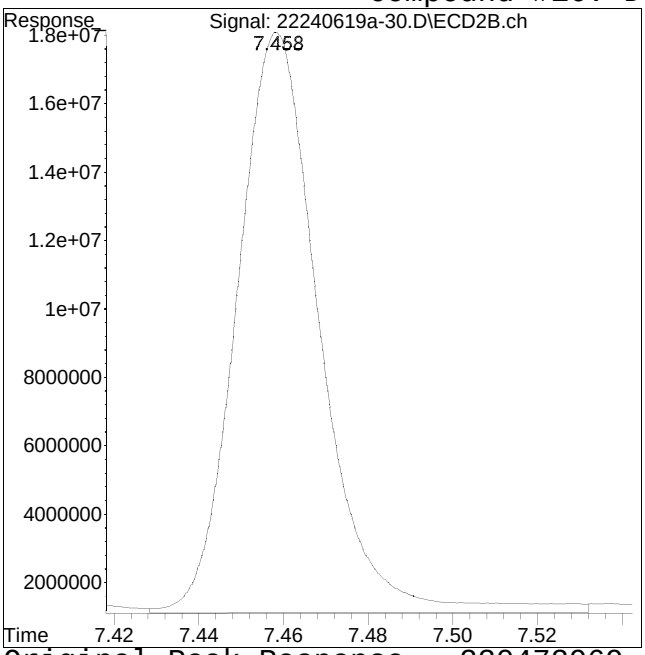


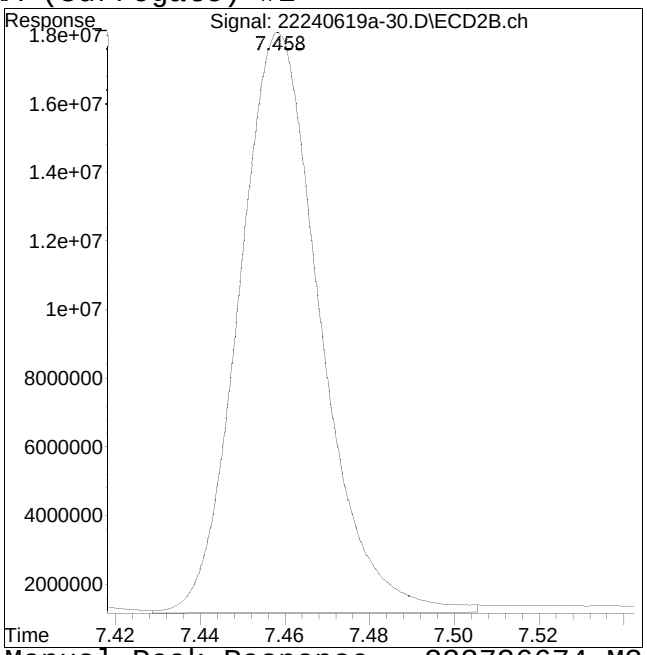
Original Peak Response = 239345027 Manual Peak Response = 225329591 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-30.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 4:50 pm Instrument : Pest22
Sample : L2433035-03,42,, p Quant Date : 6/19/2024 6:02 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 230472969 Manual Peak Response = 223736674 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-33.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:45 pm
Operator : pest22:ejl
Sample : L2433035-04,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:03:00 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.547f	8.527	795.9E6	832.5E6	0.250M4	0.250M3
Standard Area 1 : #1 = 883326324				Recovery =	90.10%	
Standard Area 1 : #2 = 891276115				Recovery =	93.41%	
System Monitoring Compounds						
3) s DCAA (surrog	7.008f	7.458	281.2E6	272.9E6	0.429M4	0.405M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	85.80%	81.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D.	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

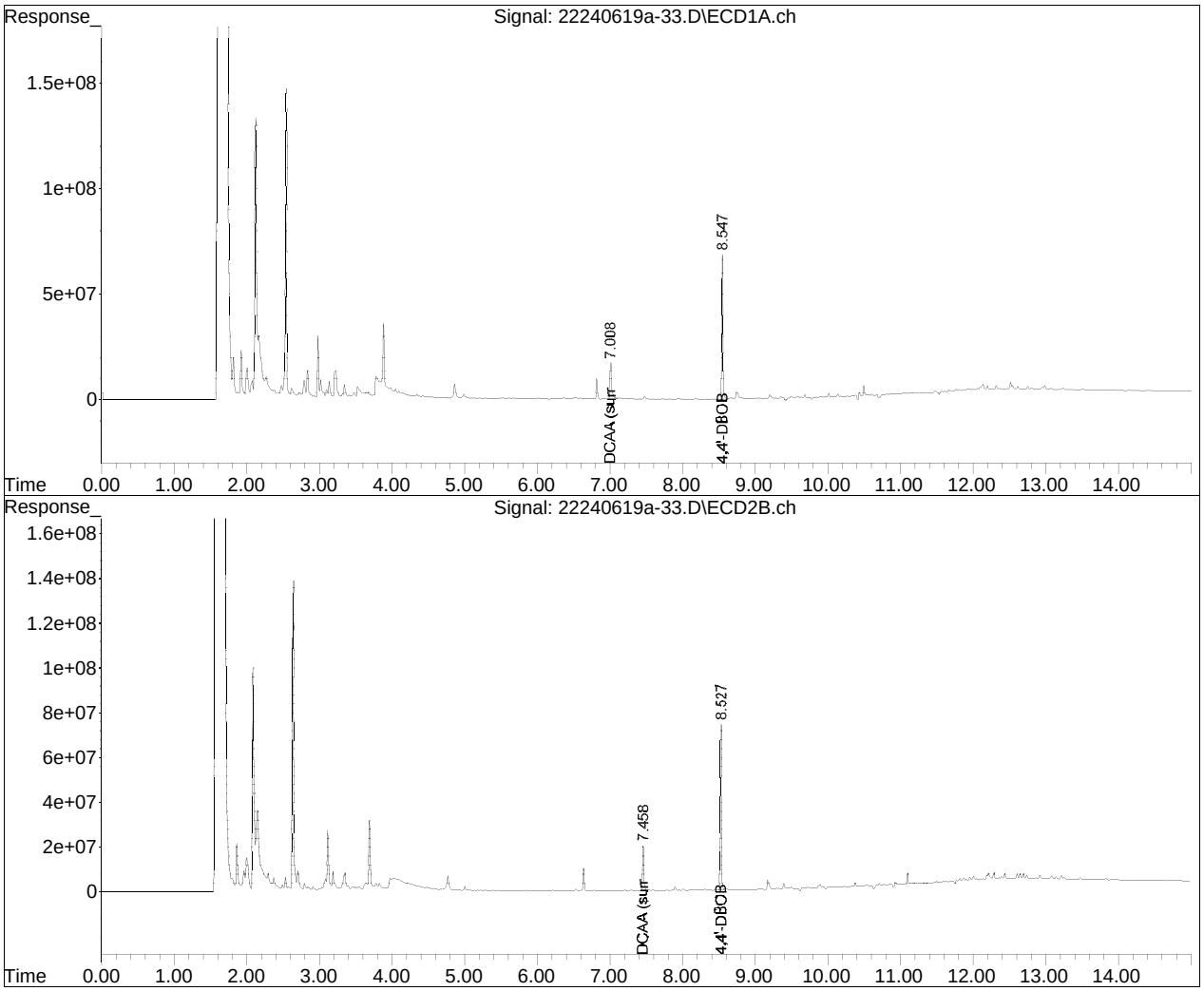
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-33.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:45 pm
Operator : pest22:ejl
Sample : L2433035-04,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:03:00 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

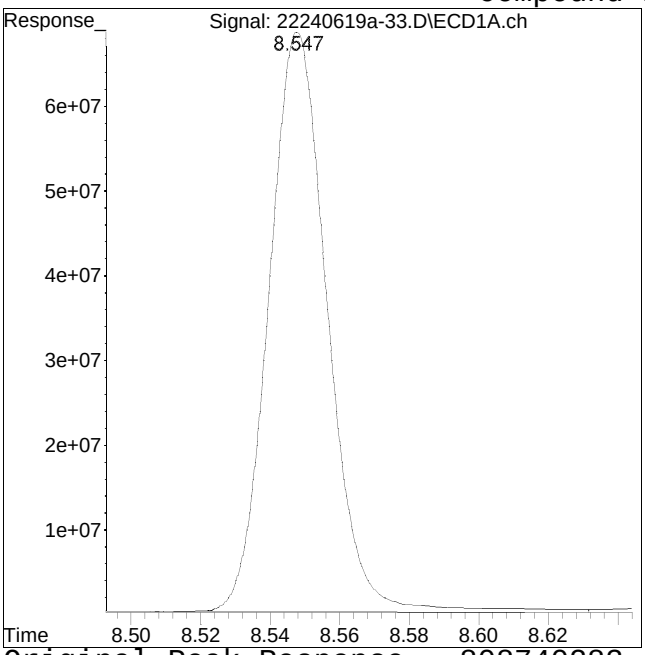
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



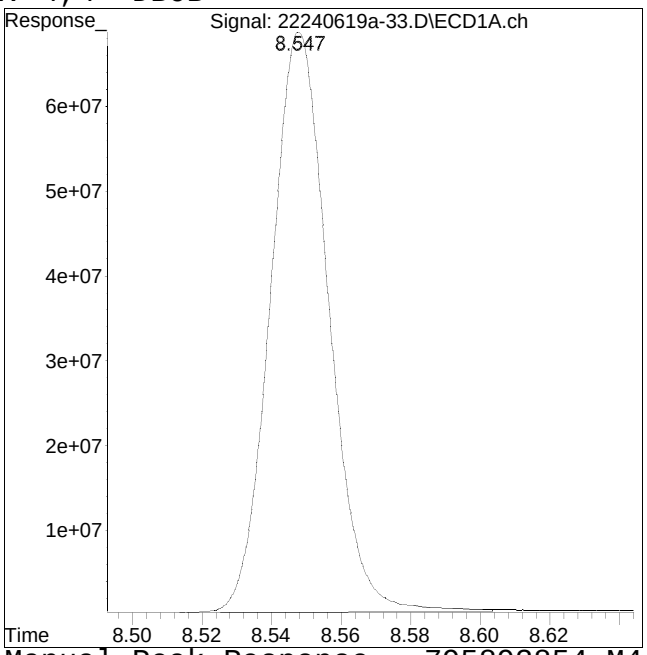
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-33.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:45 pm Instrument : Pest22
Sample : L2433035-04,42,, Quant Date : 6/19/2024 6:03 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 808740283



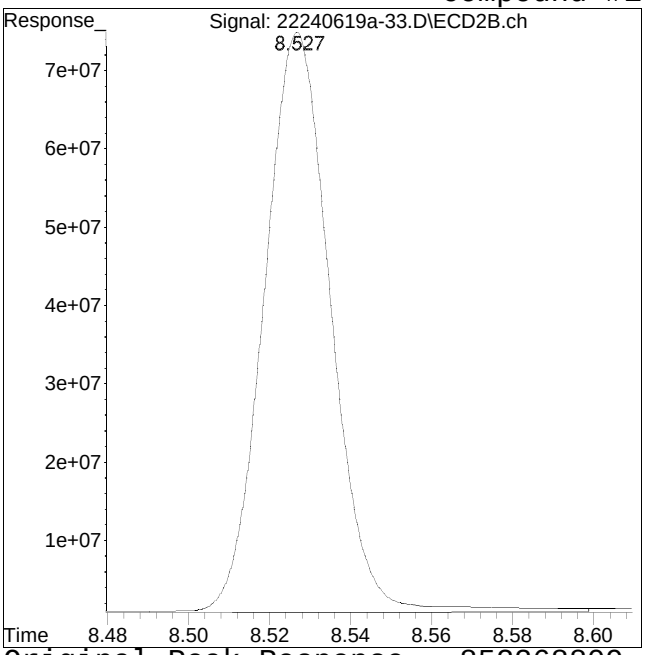
Manual Peak Response = 795893854 M4

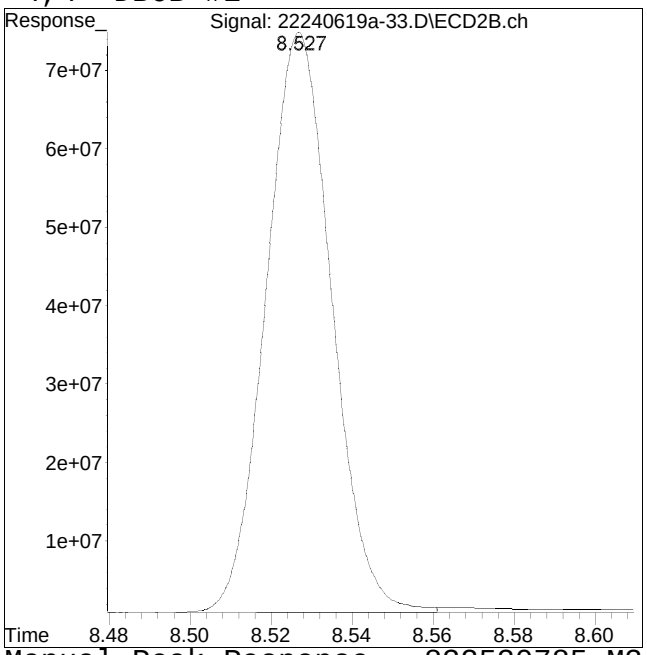
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-33.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:45 pm Instrument : Pest22
Sample : L2433035-04,42,, Quant Date : 6/19/2024 6:03 pm

Compound #14: 4,4'-DBOB #2



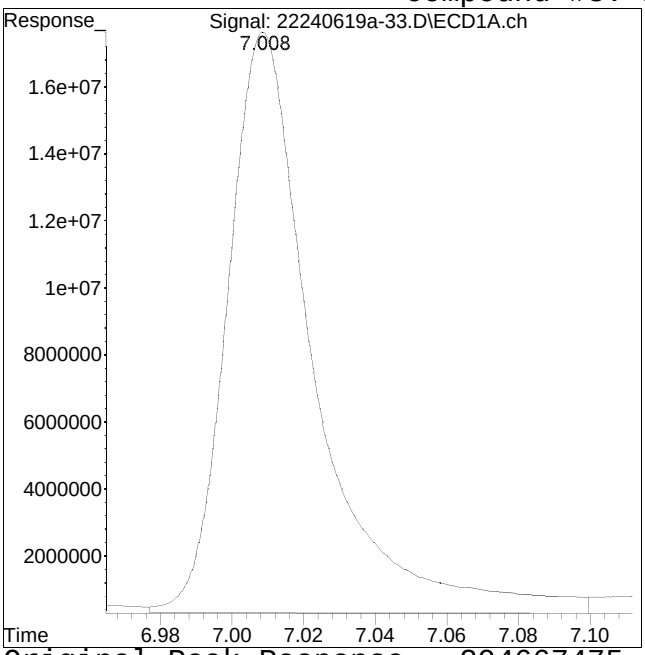


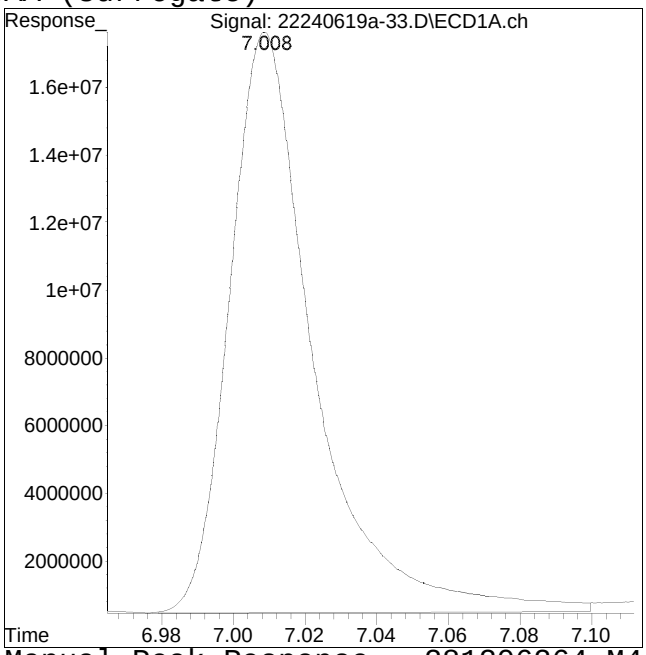
Original Peak Response = 852268809 Manual Peak Response = 832530785 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-33.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:45 pm Instrument : Pest22
Sample : L2433035-04,42,, Quant Date : 6/19/2024 6:03 pm

Compound #3: DCAA (surrogate)



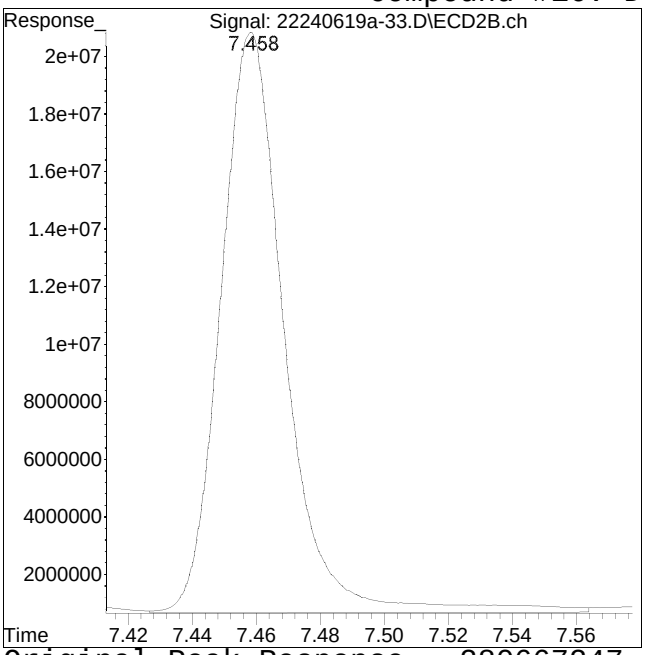


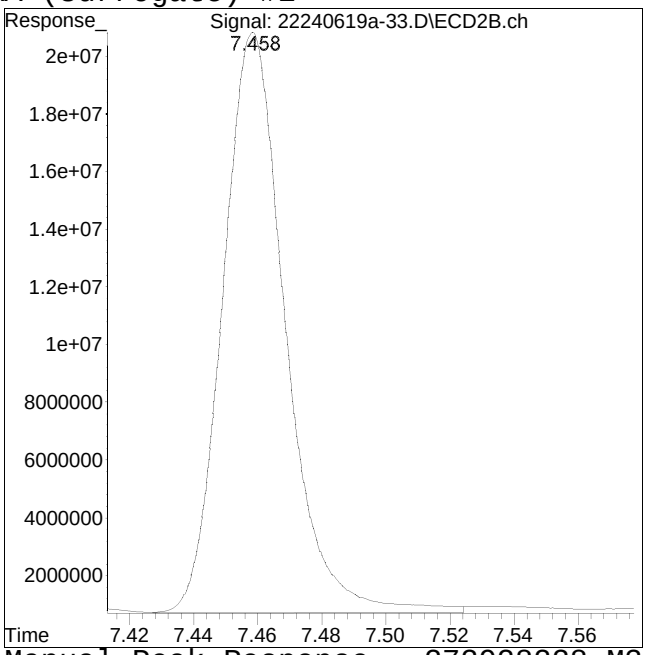
Original Peak Response = 294667475 Manual Peak Response = 281206264 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-33.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:45 pm Instrument : Pest22
Sample : L2433035-04,42,, Quant Date : 6/19/2024 6:03 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 280667247 Manual Peak Response = 272928228 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:23
Operator : pest22:jag
Sample : L2433035-05,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:53 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	825.6E6	863.3E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery = 98.96%		
	Standard Area 1 : #2 = 846610973				Recovery = 101.98%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.992	7.458	302.8E6	283.7E6	0.446M4	0.406M4
	Spiked Amount	0.500	Range 30 - 150		Recovery = 89.20%		81.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

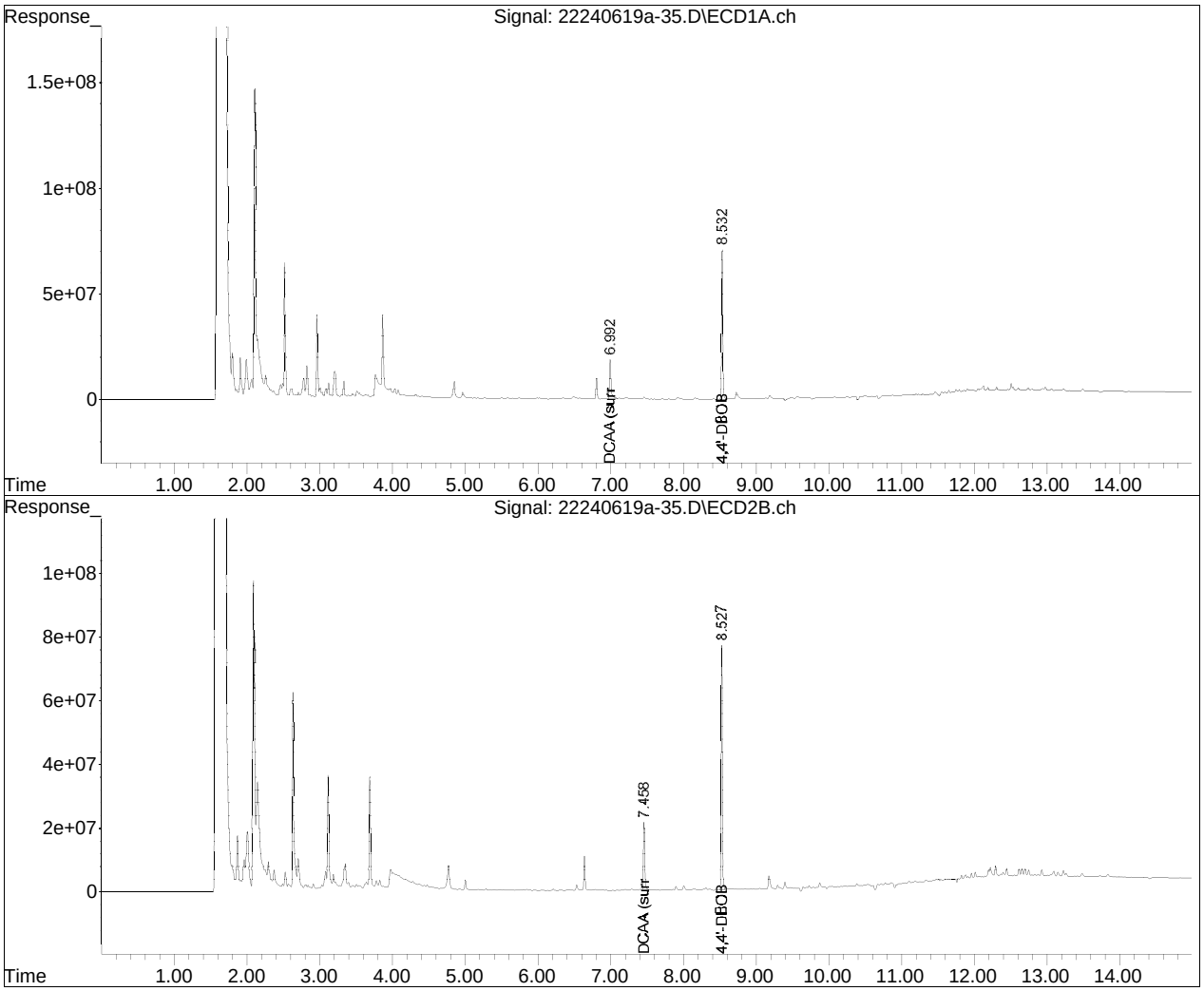
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:23
Operator : pest22:jag
Sample : L2433035-05,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:53 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

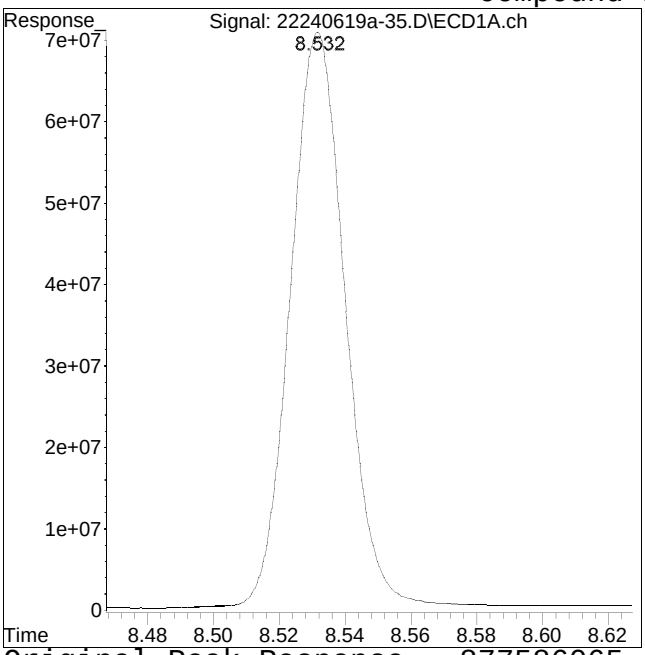
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

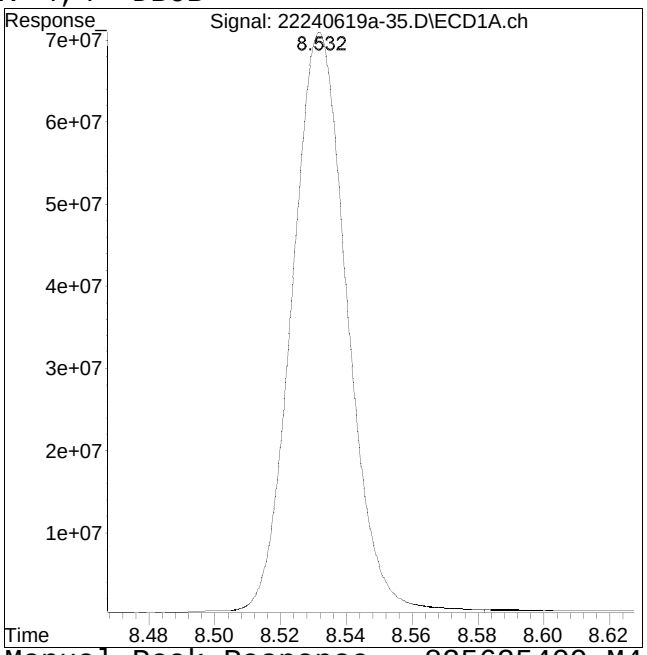


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-35.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:23 Instrument : Pest22
Sample : L2433035-05,42,, Quant Date : 6/19/2024 9:45 pm

Compound #1: 4,4'-DBOB



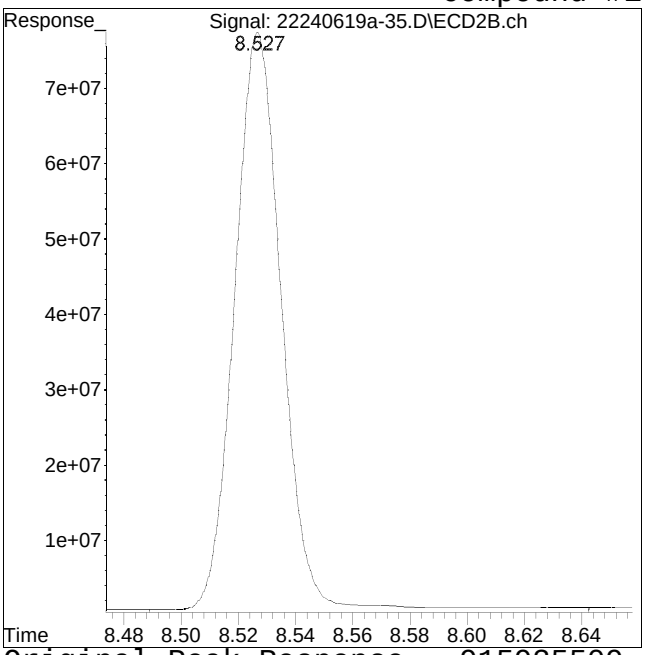


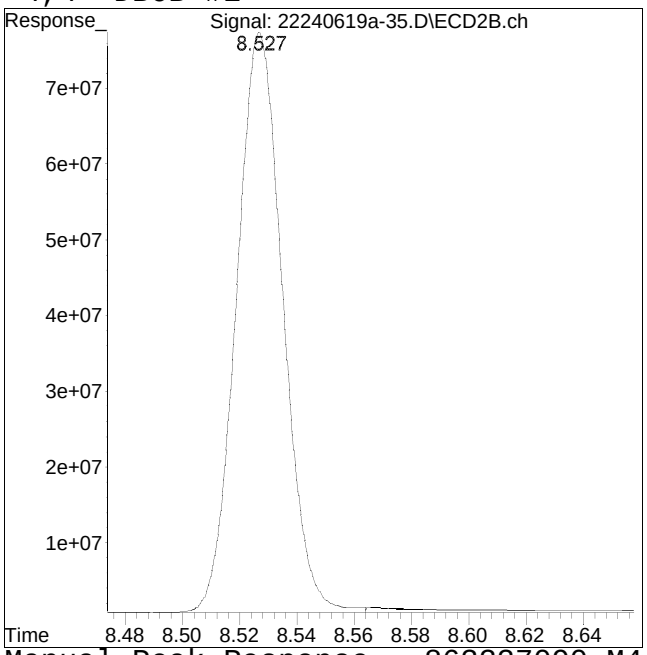
Original Peak Response = 877586065 Manual Peak Response = 825625409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-35.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:23 Instrument : Pest22
Sample : L2433035-05,42,, Quant Date : 6/19/2024 9:45 pm

Compound #14: 4,4'-DBOB #2



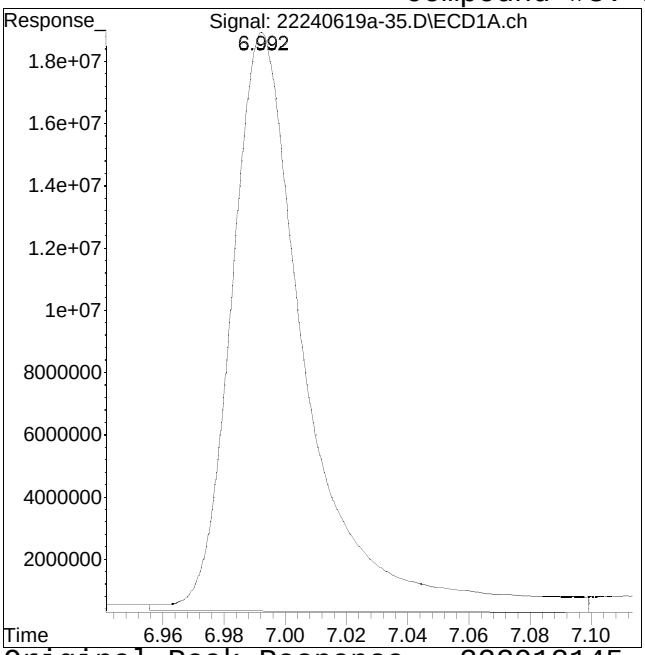


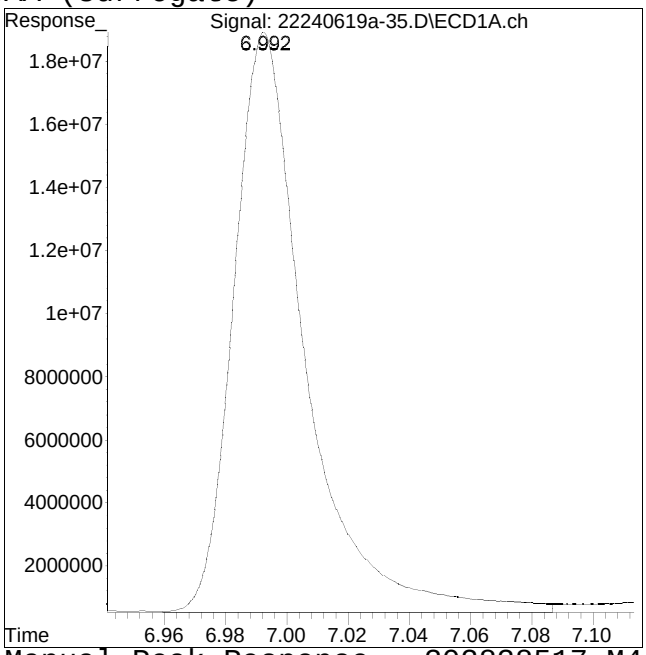
Original Peak Response = 915935509 Manual Peak Response = 863337090 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-35.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:23 Instrument : Pest22
Sample : L2433035-05,42,, Quant Date : 6/19/2024 9:45 pm

Compound #3: DCAA (surrogate)



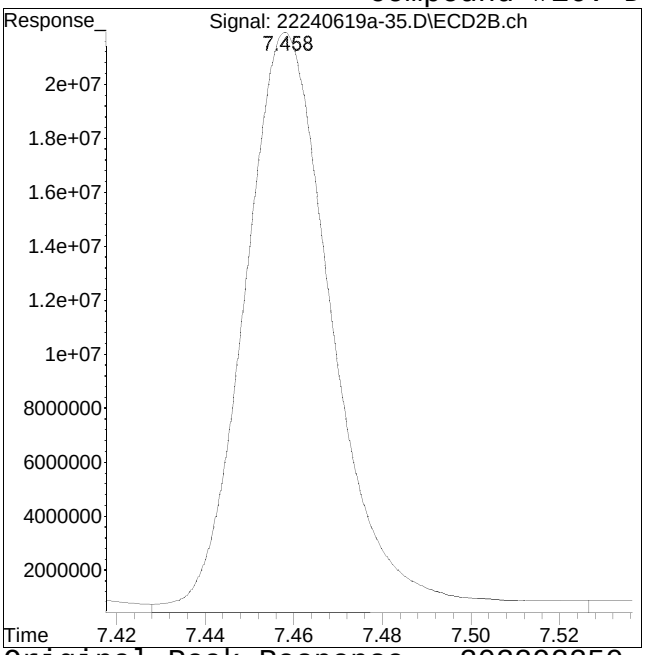


Original Peak Response = 322912145 Manual Peak Response = 302838517 M4
M4 = Poor automated baseline construction.

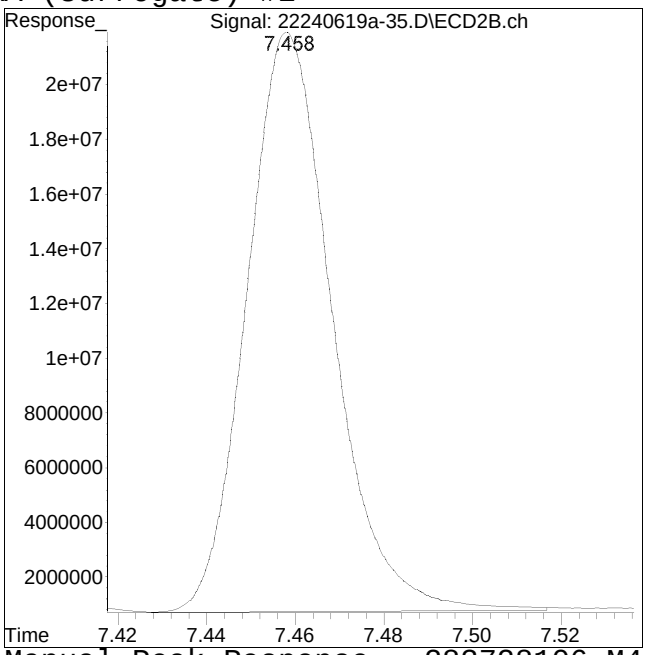
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-35.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:23 Instrument : Pest22
Sample : L2433035-05,42,, Quant Date : 6/19/2024 9:45 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 303292350



Manual Peak Response = 283728106 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:41
Operator : pest22:jag
Sample : L2433035-06,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:55 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	739.2E6	770.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery =	88.60%	
	Standard Area 1 : #2 = 846610973				Recovery =	90.99%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.992	7.458	238.9E6	225.1E6	0.393M4	0.361M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	78.60%	72.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

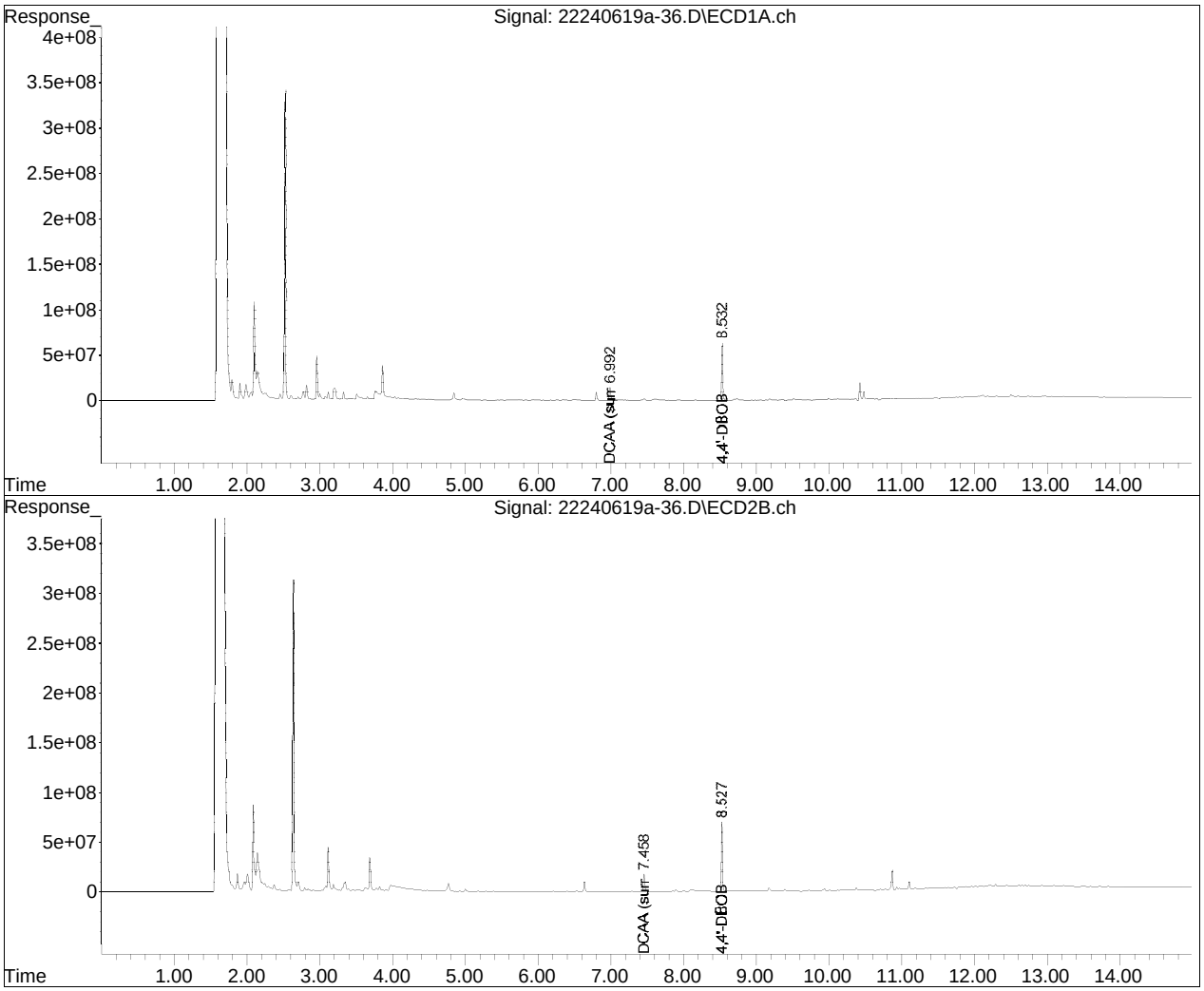
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:41
Operator : pest22:jag
Sample : L2433035-06,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:55 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

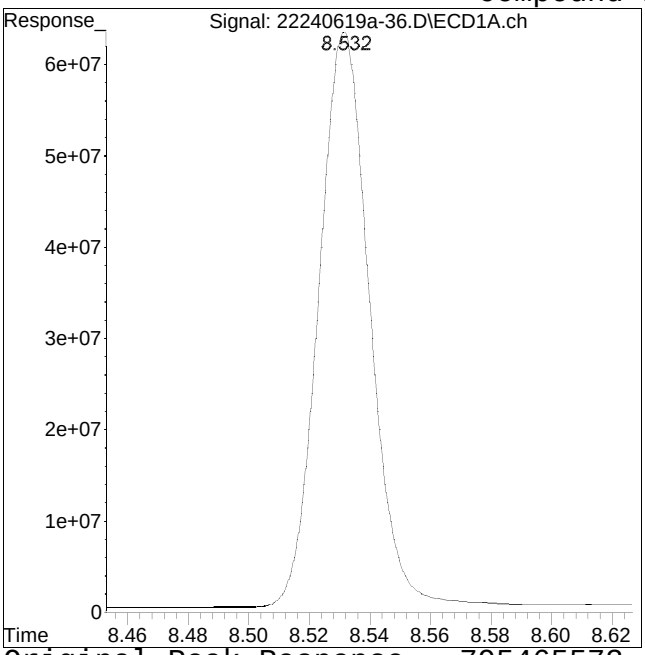
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

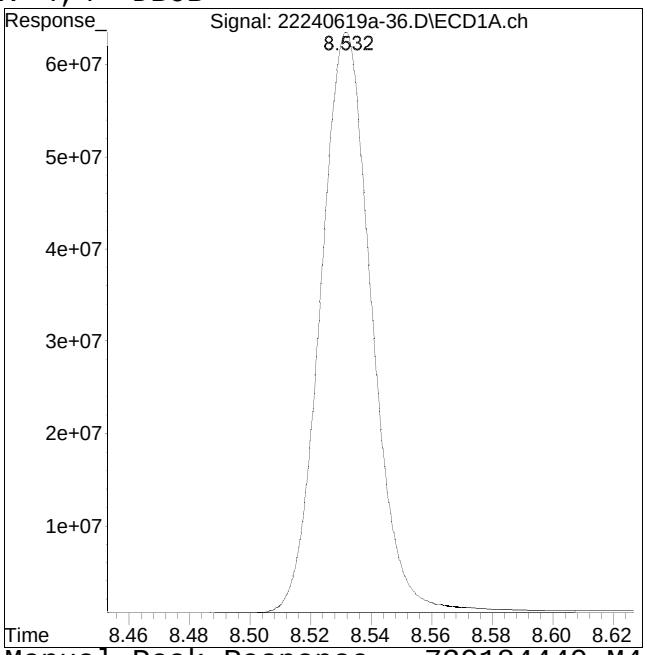


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-36.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:41 Instrument : Pest22
Sample : L2433035-06,42,, Quant Date : 6/19/2024 9:45 pm

Compound #1: 4,4'-DBOB



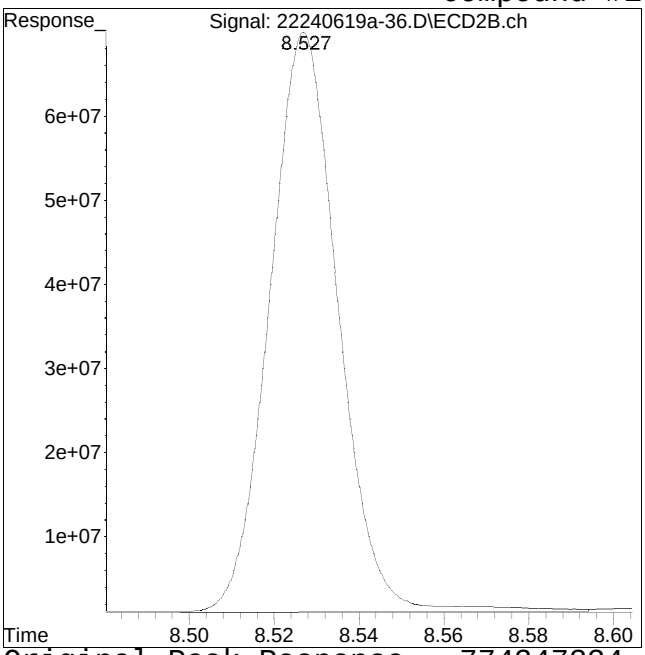


Original Peak Response = 795465573 Manual Peak Response = 739184440 M4
M4 = Poor automated baseline construction.

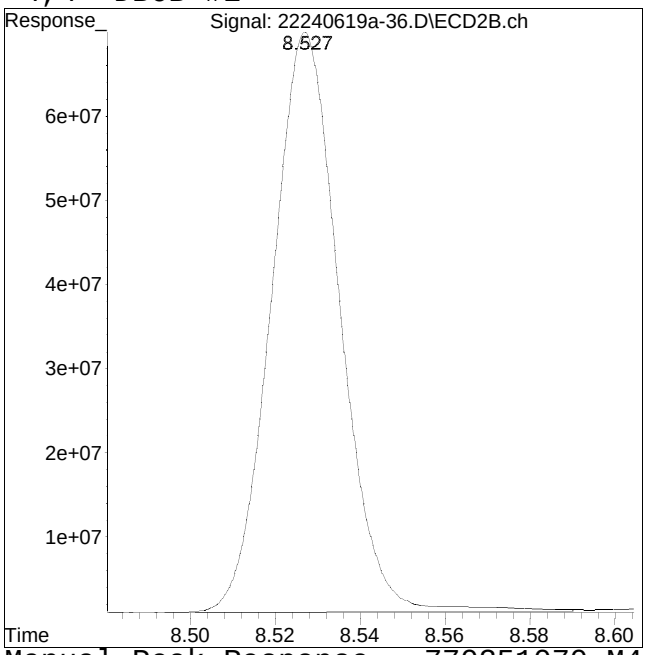
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-36.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:41 Instrument : Pest22
Sample : L2433035-06,42,, Quant Date : 6/19/2024 9:45 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 774347334

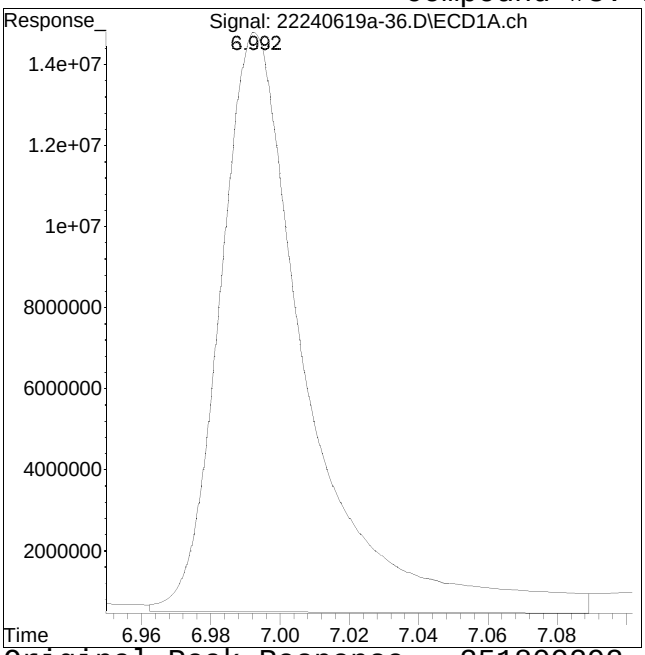


Manual Peak Response = 770351070 M4
M4 = Poor automated baseline construction.

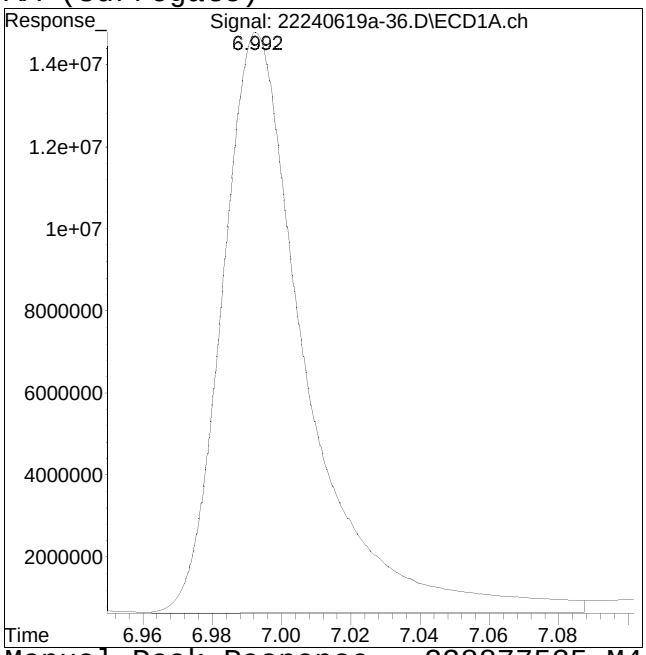
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-36.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:41 Instrument : Pest22
Sample : L2433035-06,42,, Quant Date : 6/19/2024 9:45 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 251809292



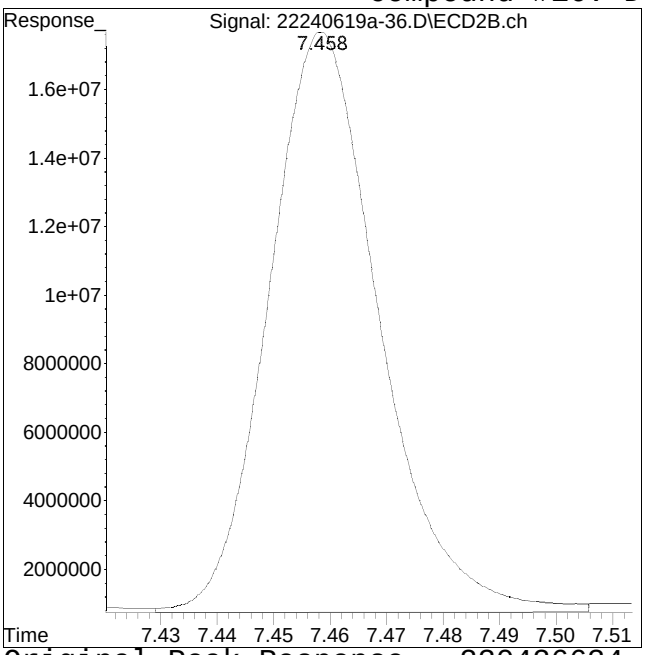
Manual Peak Response = 238877535 M4

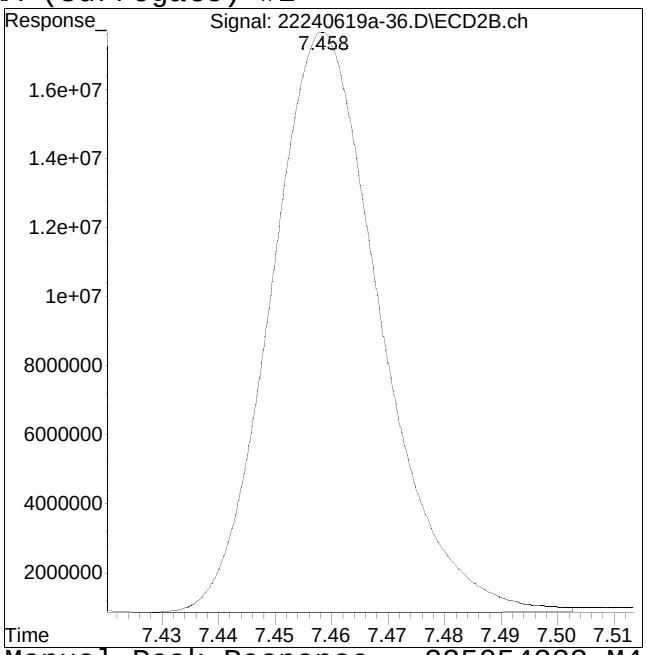
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-36.D Operator : pest22:jag
Date Inj'd : 6/19/2024 18:41 Instrument : Pest22
Sample : L2433035-06,42,, Quant Date : 6/19/2024 9:45 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 230426634 Manual Peak Response = 225054223 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-37.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:00
Operator : pest22:jag
Sample : L2433035-07,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:56 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	806.6E6	867.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery = 96.69%		
	Standard Area 1 : #2 = 846610973				Recovery = 102.42%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.991	7.458	276.0E6	266.8E6	0.416M4	0.380M3
	Spiked Amount	0.500	Range 30 - 150		Recovery = 83.20%		76.00%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

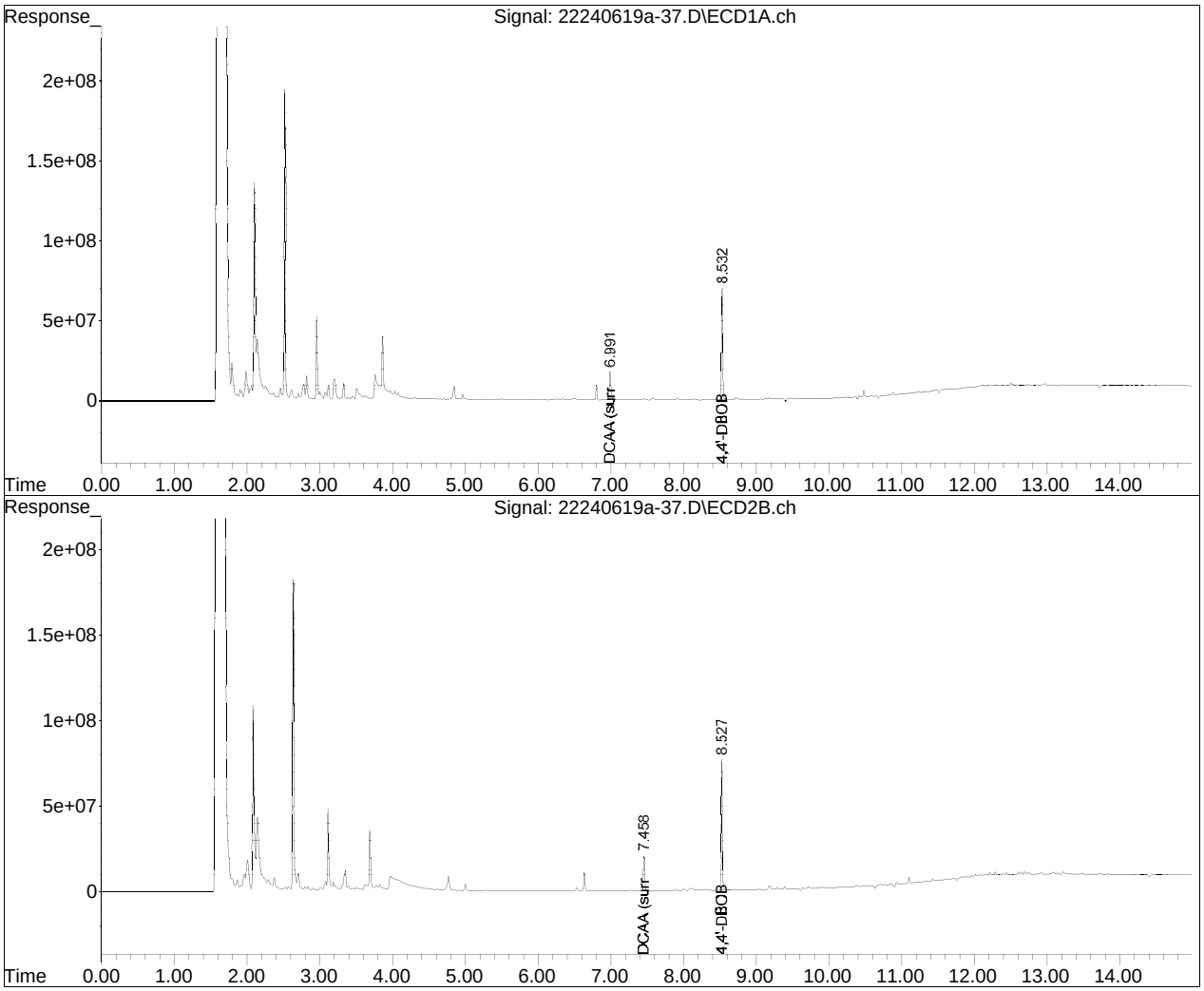
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-37.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:00
Operator : pest22:jag
Sample : L2433035-07,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:56 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

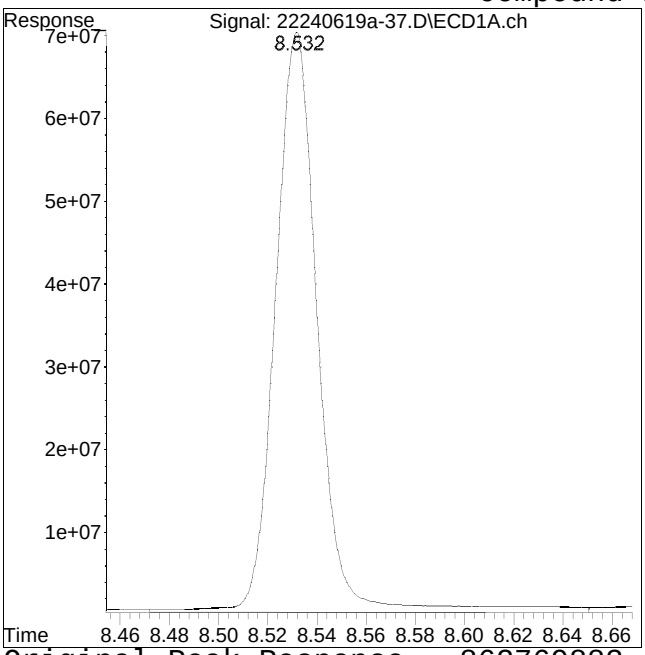
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

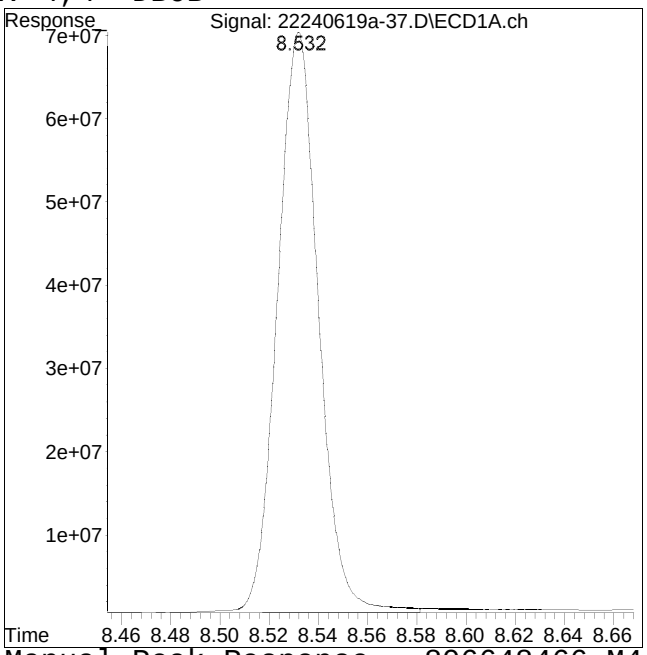


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-37.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:00 Instrument : Pest22
Sample : L2433035-07,42,, Quant Date : 6/19/2024 9:45 pm

Compound #1: 4,4'-DBOB



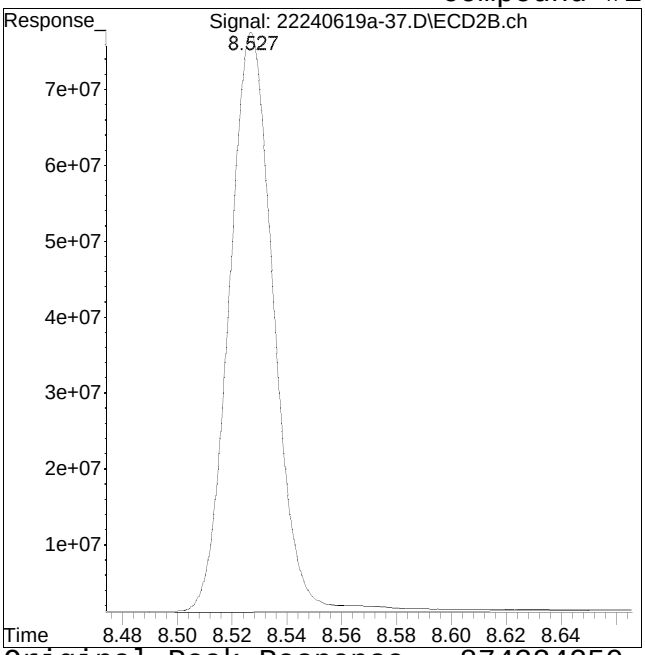


Original Peak Response = 862769883 Manual Peak Response = 806648466 M4
M4 = Poor automated baseline construction.

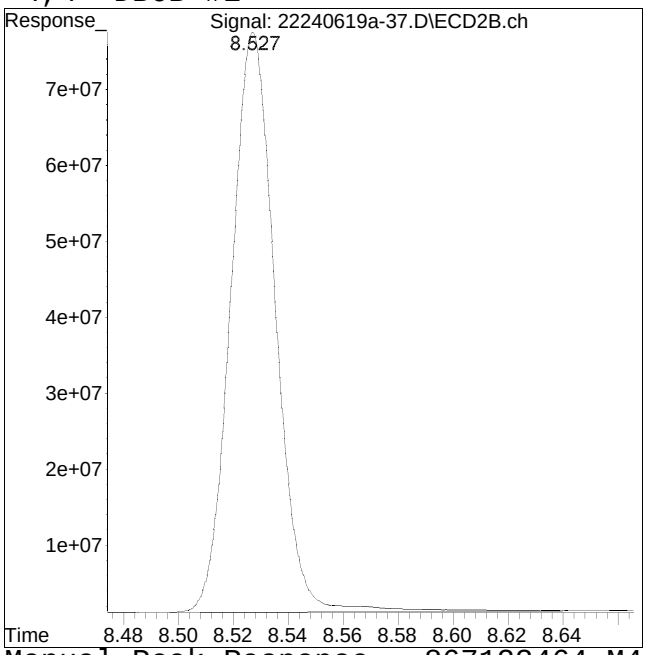
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-37.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:00 Instrument : Pest22
Sample : L2433035-07,42,, Quant Date : 6/19/2024 9:45 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 874324250



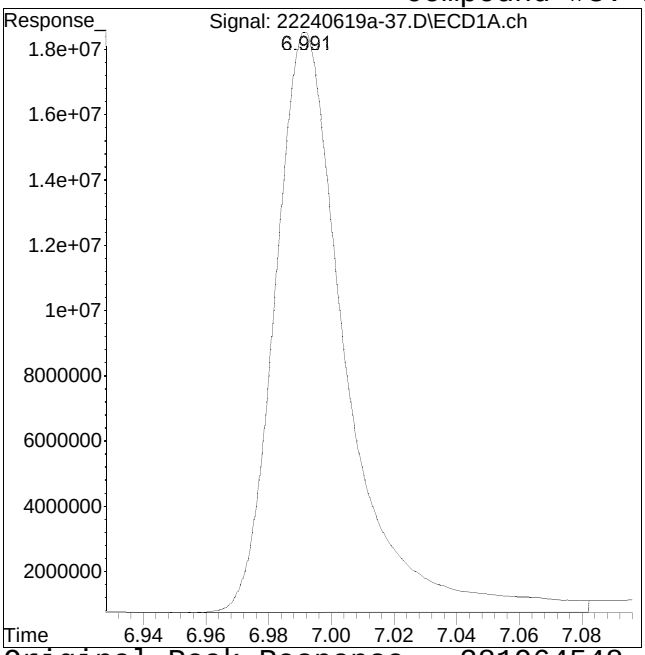
Manual Peak Response = 867123464 M4

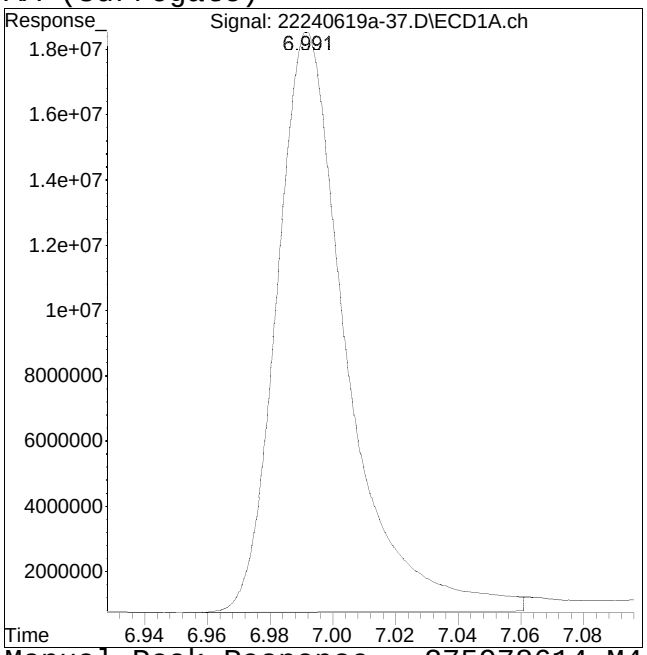
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-37.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:00 Instrument : Pest22
Sample : L2433035-07,42,, Quant Date : 6/19/2024 9:45 pm

Compound #3: DCAA (surrogate)



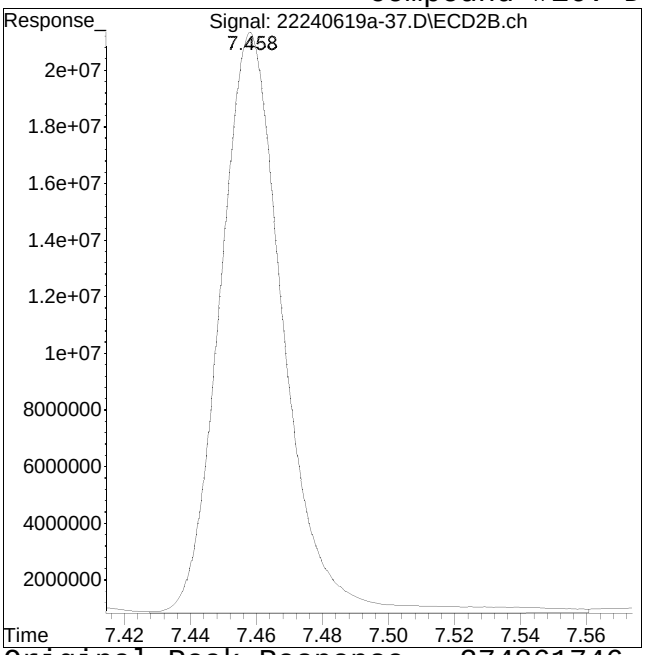


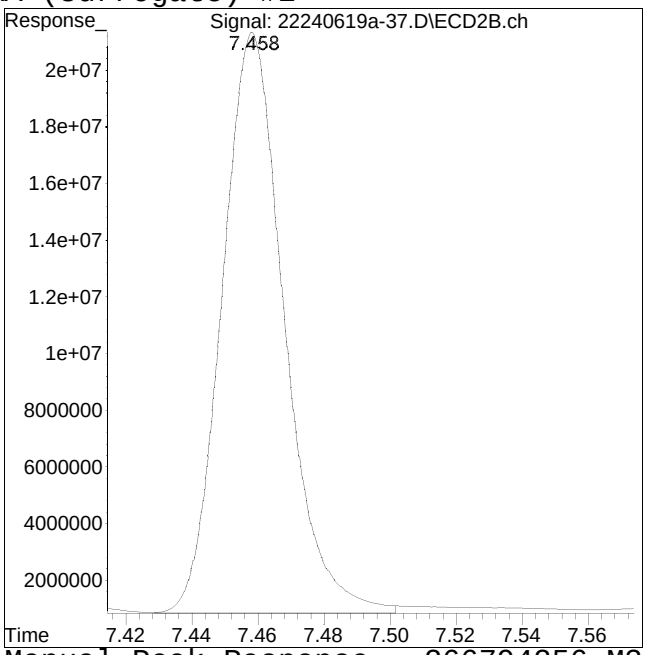
Original Peak Response = 281964548 Manual Peak Response = 275978614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-37.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:00 Instrument : Pest22
Sample : L2433035-07,42,, Quant Date : 6/19/2024 9:45 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 274861746 Manual Peak Response = 266794256 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-38.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:18
Operator : pest22:jag
Sample : L2433035-08,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:57 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.531	8.527	834.8E6	888.8E6	0.250M4	0.250M4
Standard Area 1 : #1 = 834282280				Recovery =	100.06%	
Standard Area 1 : #2 = 846610973				Recovery =	104.98%	
System Monitoring Compounds						
3) s DCAA (surrog	6.991	7.458	313.5E6	302.5E6	0.456M4	0.420M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	91.20%	84.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

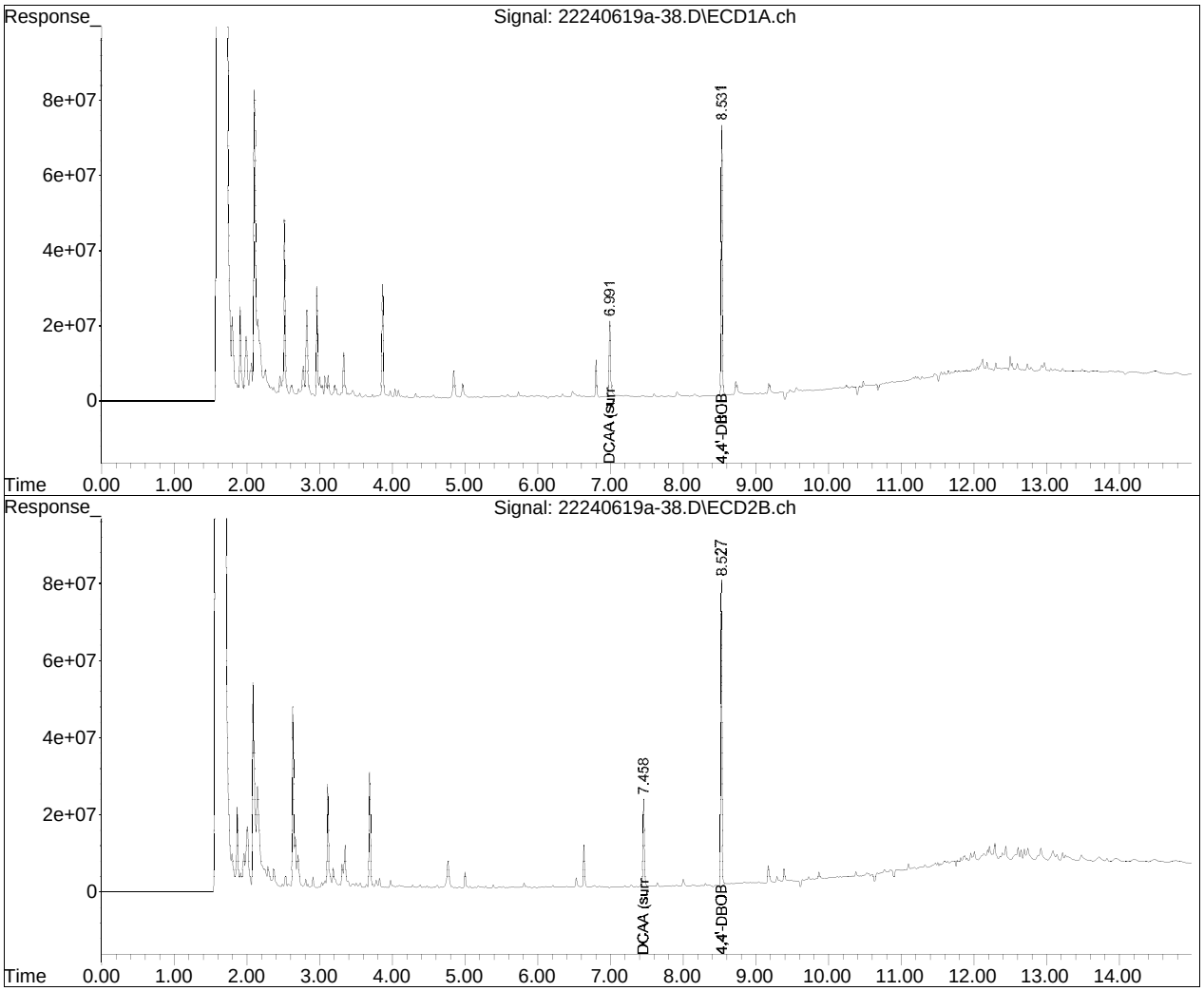
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-38.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:18
Operator : pest22:jag
Sample : L2433035-08,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:57 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

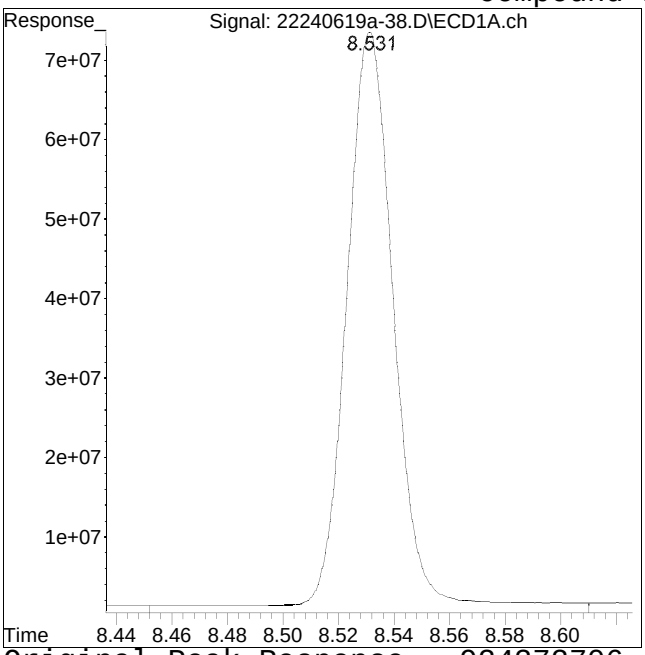
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

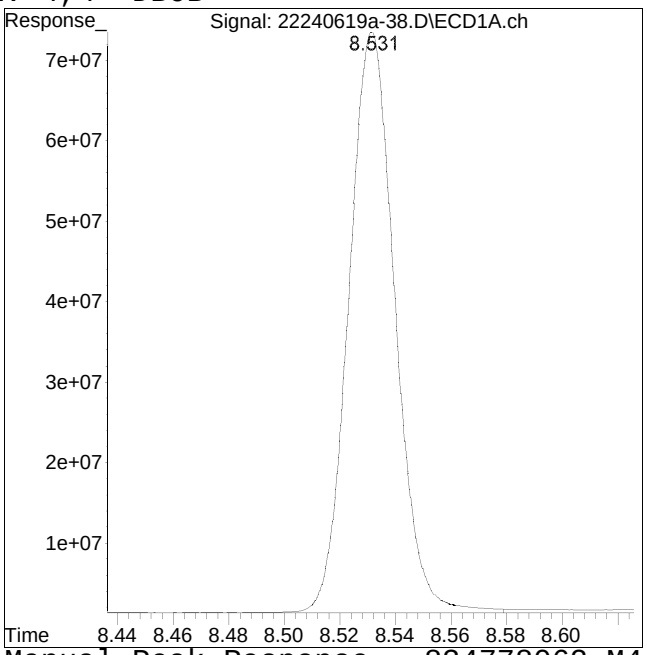


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-38.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:18 Instrument : Pest22
Sample : L2433035-08,42,, Quant Date : 6/19/2024 9:45 pm

Compound #1: 4,4'-DBOB



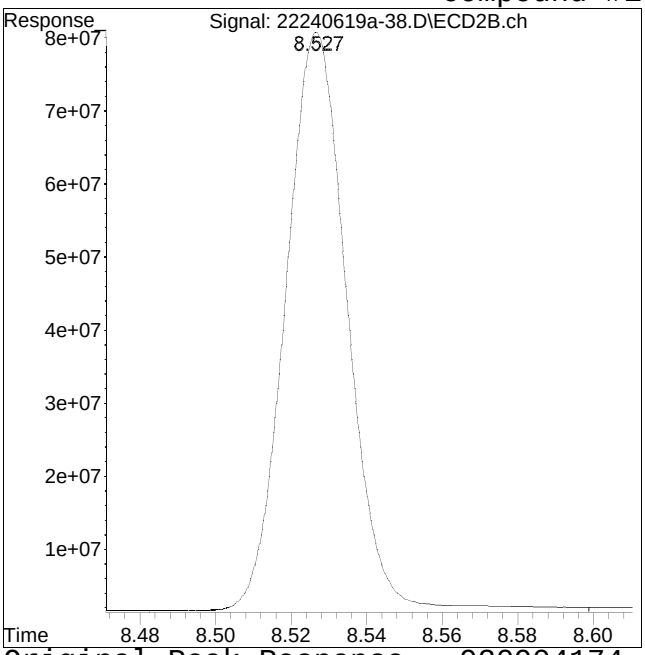


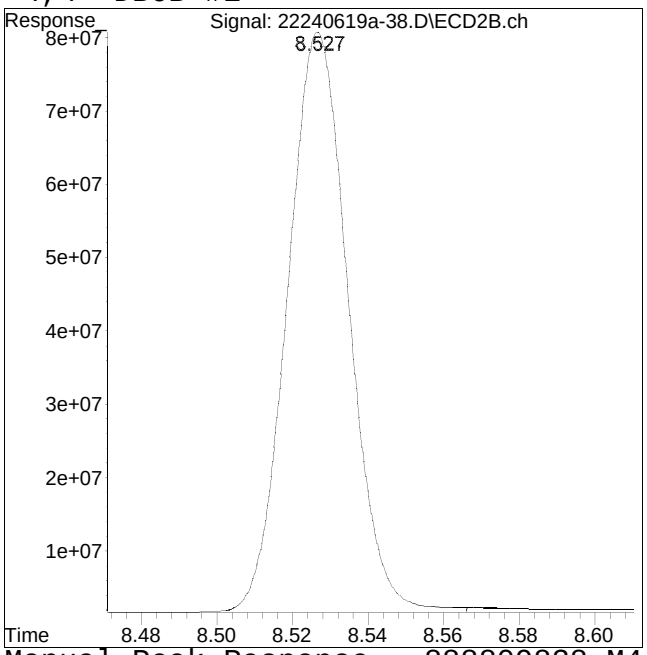
Original Peak Response = 924372706 Manual Peak Response = 834778062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-38.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:18 Instrument : Pest22
Sample : L2433035-08,42,, Quant Date : 6/19/2024 9:45 pm

Compound #14: 4,4'-DBOB #2



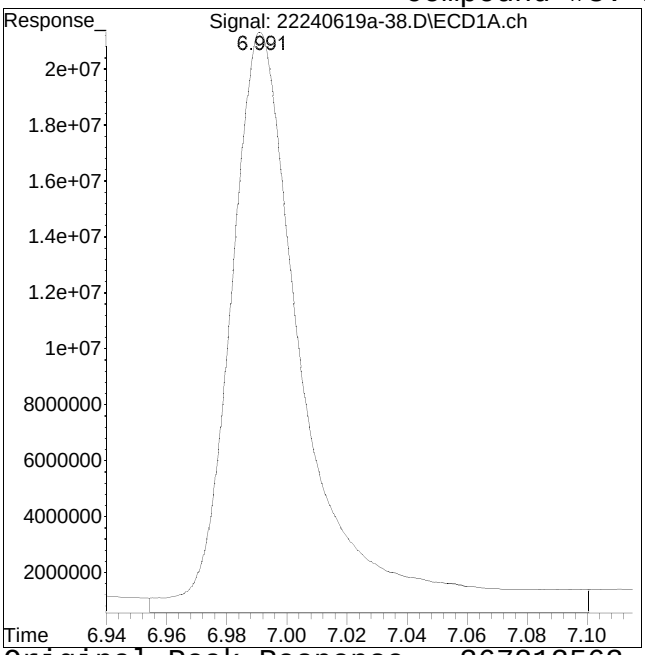


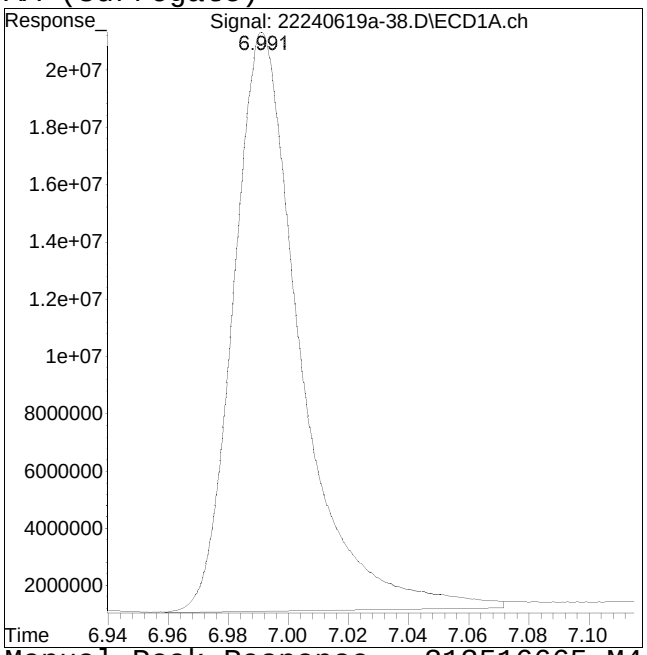
Original Peak Response = 920904174 Manual Peak Response = 888809838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-38.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:18 Instrument : Pest22
Sample : L2433035-08,42,, Quant Date : 6/19/2024 9:45 pm

Compound #3: DCAA (surrogate)



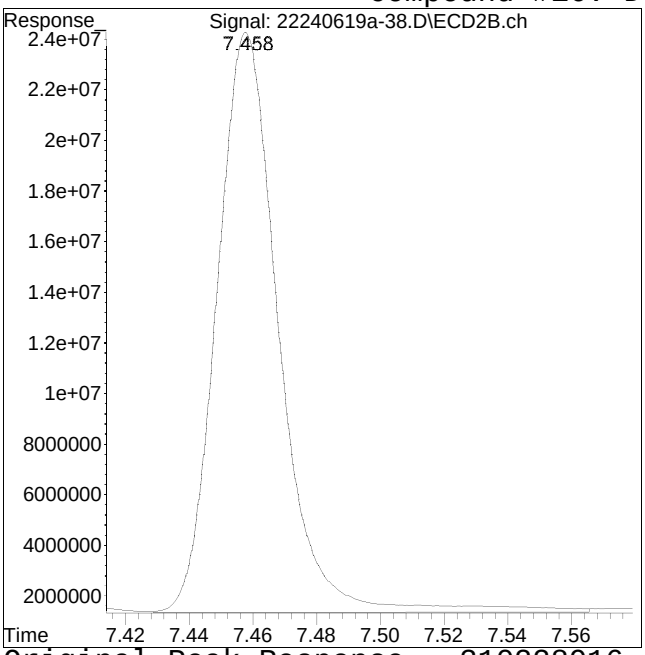


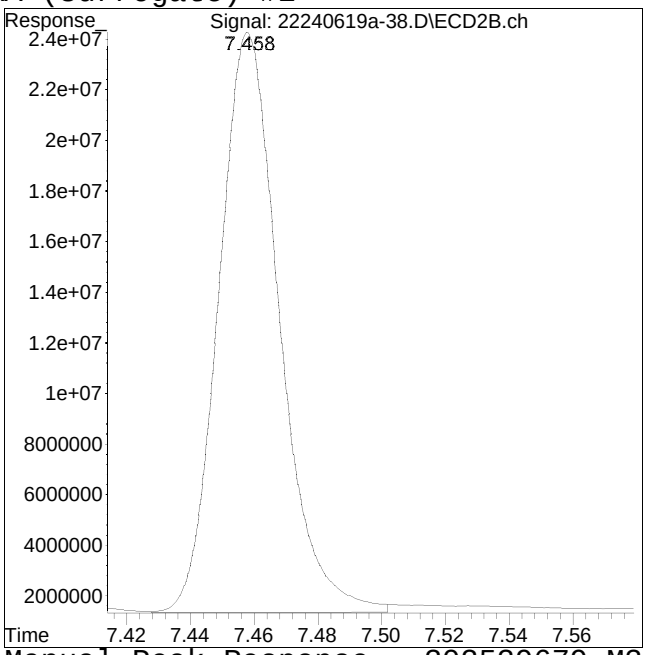
Original Peak Response = 367212563 Manual Peak Response = 313516665 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-38.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:18 Instrument : Pest22
Sample : L2433035-08,42,, Quant Date : 6/19/2024 9:45 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 310228916 Manual Peak Response = 302539679 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:37
Operator : pest22:jag
Sample : L2433035-09,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:59 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	812.9E6	824.7E6	0.250M3	0.250M3
	Standard Area 1 : #1 = 834282280				Recovery =	97.43%	
	Standard Area 1 : #2 = 846610973				Recovery =	97.41%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.993	7.459	223.0E6	219.8E6	0.333M4	0.329M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	66.60%	65.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

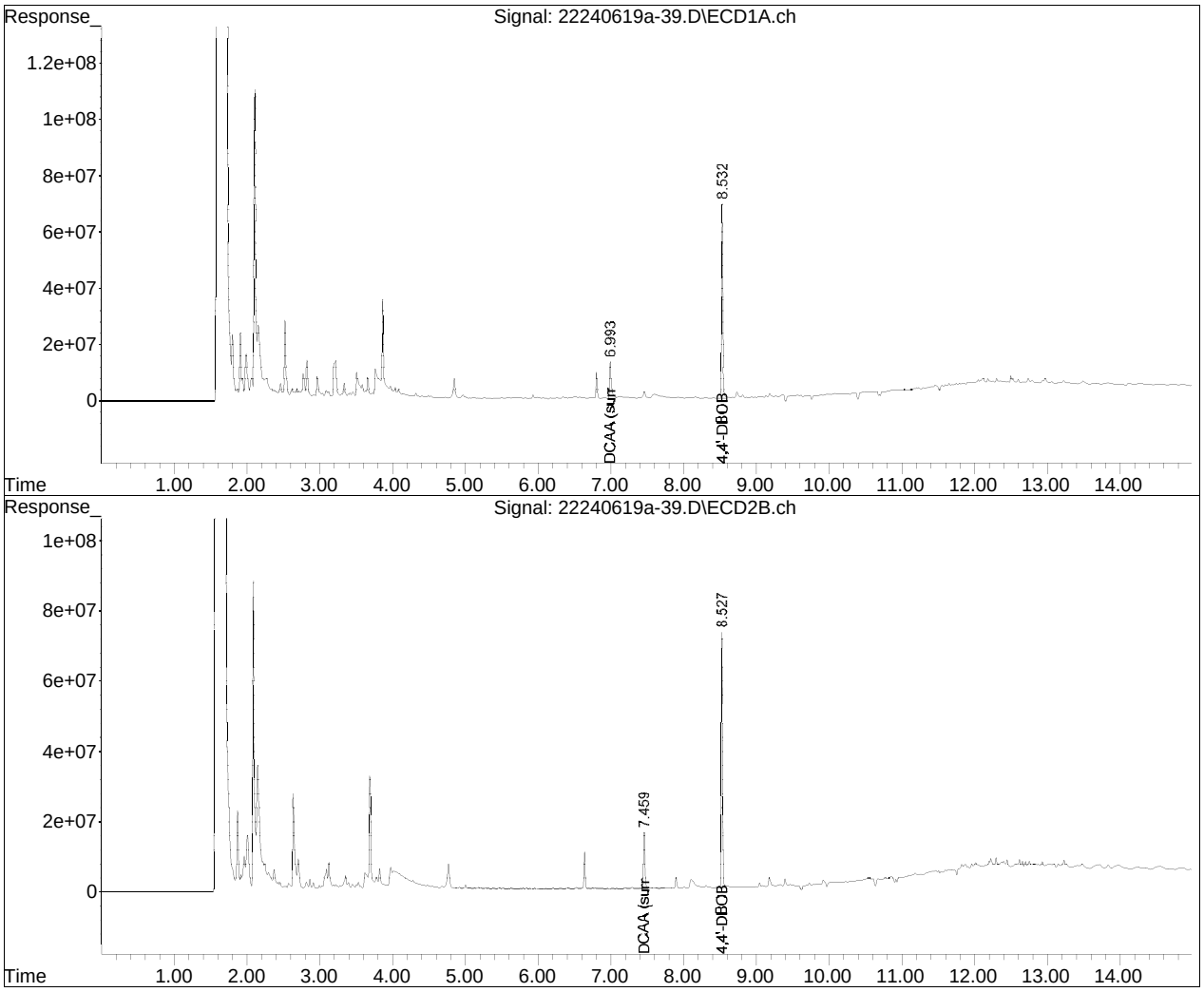
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:37
Operator : pest22:jag
Sample : L2433035-09,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:45:59 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

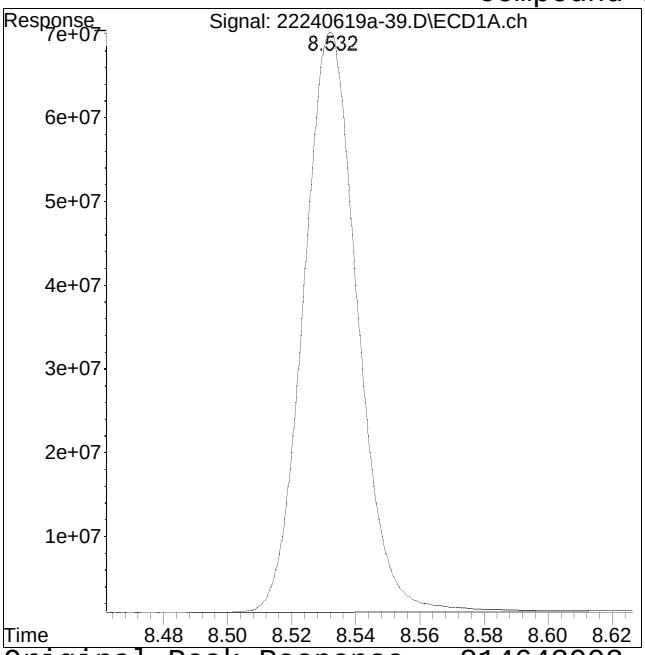
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

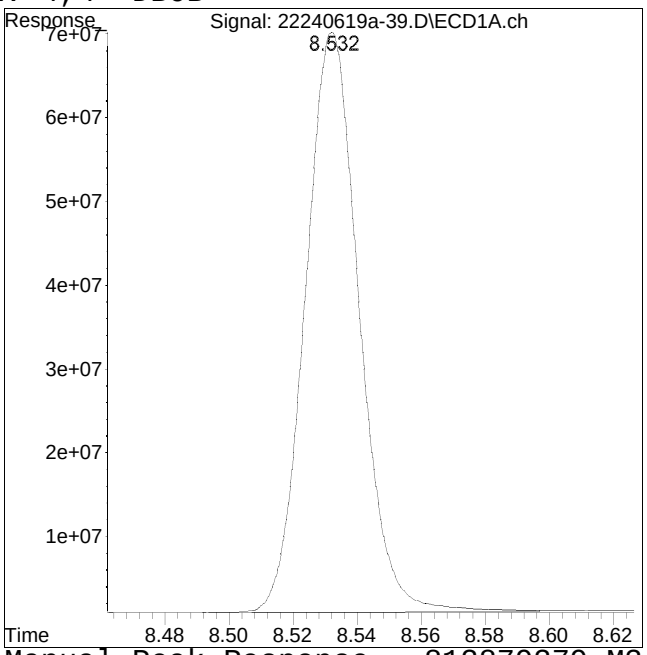


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-39.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:37 Instrument : Pest22
Sample : L2433035-09,42,, Quant Date : 6/19/2024 9:45 pm

Compound #1: 4,4'-DBOB



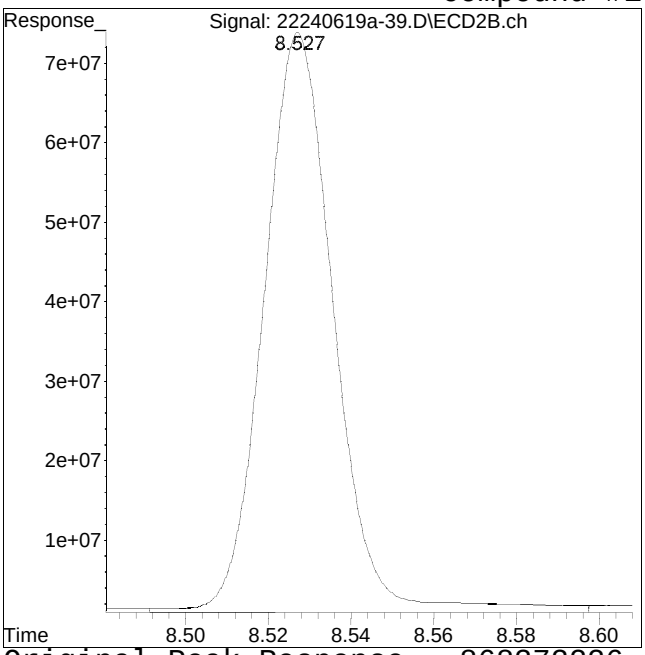


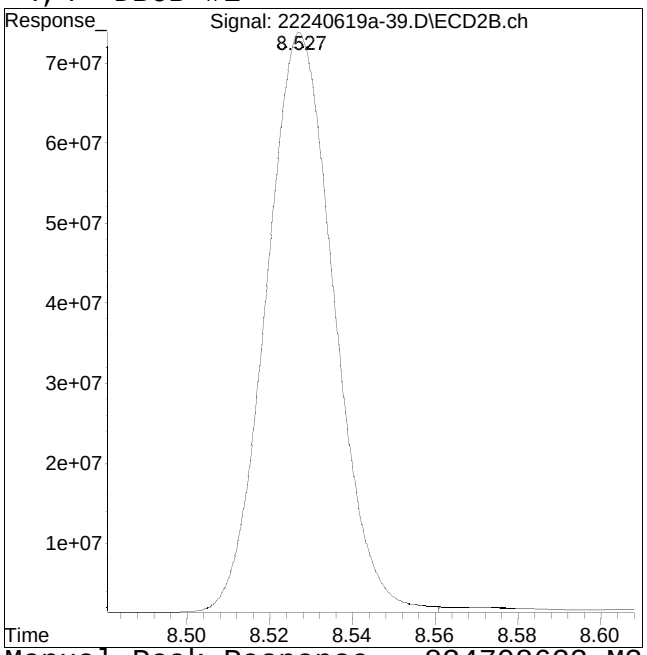
Original Peak Response = 814643903 Manual Peak Response = 812879379 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-39.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:37 Instrument : Pest22
Sample : L2433035-09,42,, Quant Date : 6/19/2024 9:45 pm

Compound #14: 4,4'-DBOB #2





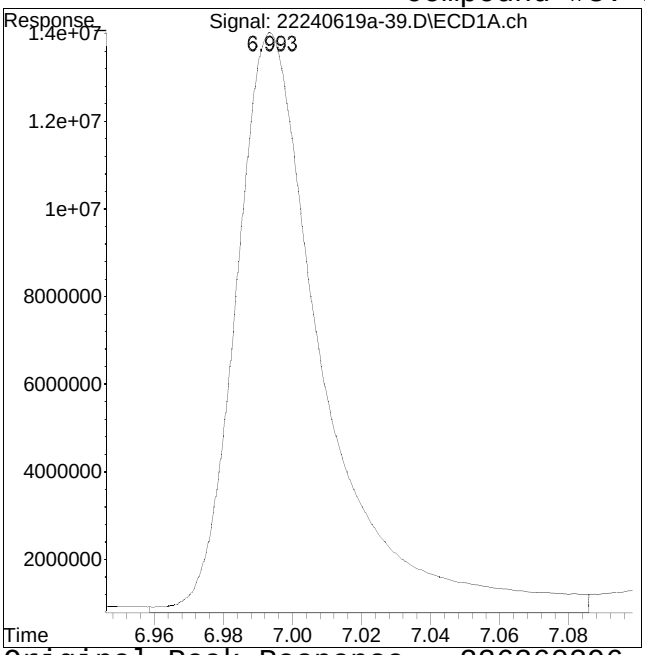
Original Peak Response = 868372226 Manual Peak Response = 824708623 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

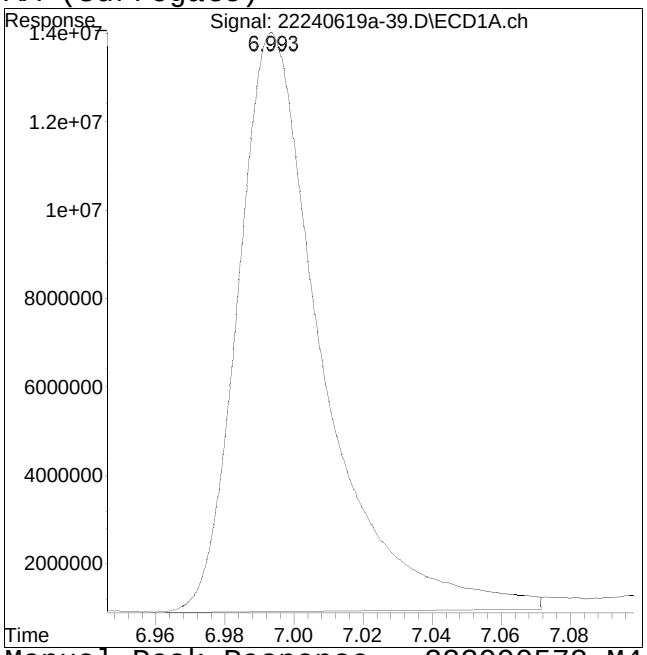
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-39.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:37 Instrument : Pest22
Sample : L2433035-09,42,, Quant Date : 6/19/2024 9:45 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 236360396



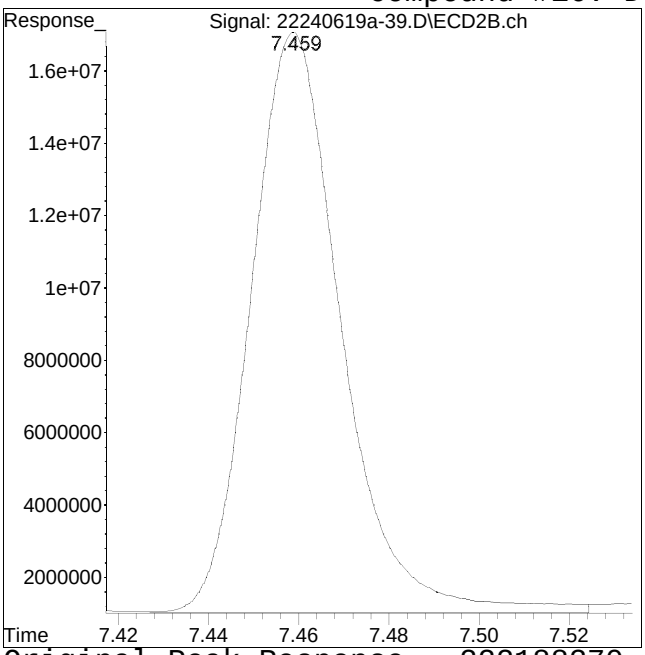
Manual Peak Response = 222990572 M4

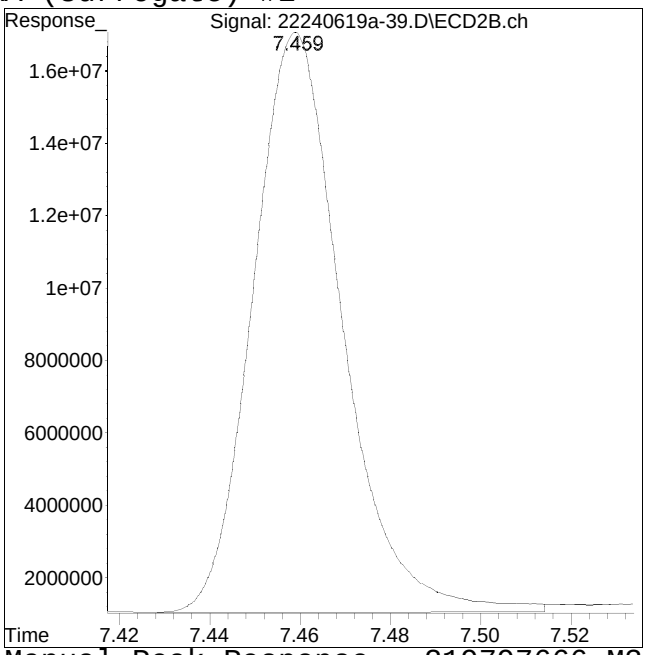
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-39.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:37 Instrument : Pest22
Sample : L2433035-09,42,, Quant Date : 6/19/2024 9:45 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 222188370 Manual Peak Response = 219797666 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-40.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:55
Operator : pest22:jag
Sample : L2433035-10,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:00 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.532	8.527	862.3E6	884.0E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 834282280				Recovery = 103.36%		
	Standard Area 1 : #2 = 846610973				Recovery = 104.42%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.992	7.459	228.7E6	224.6E6	0.322M4	0.314M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	64.40%	62.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

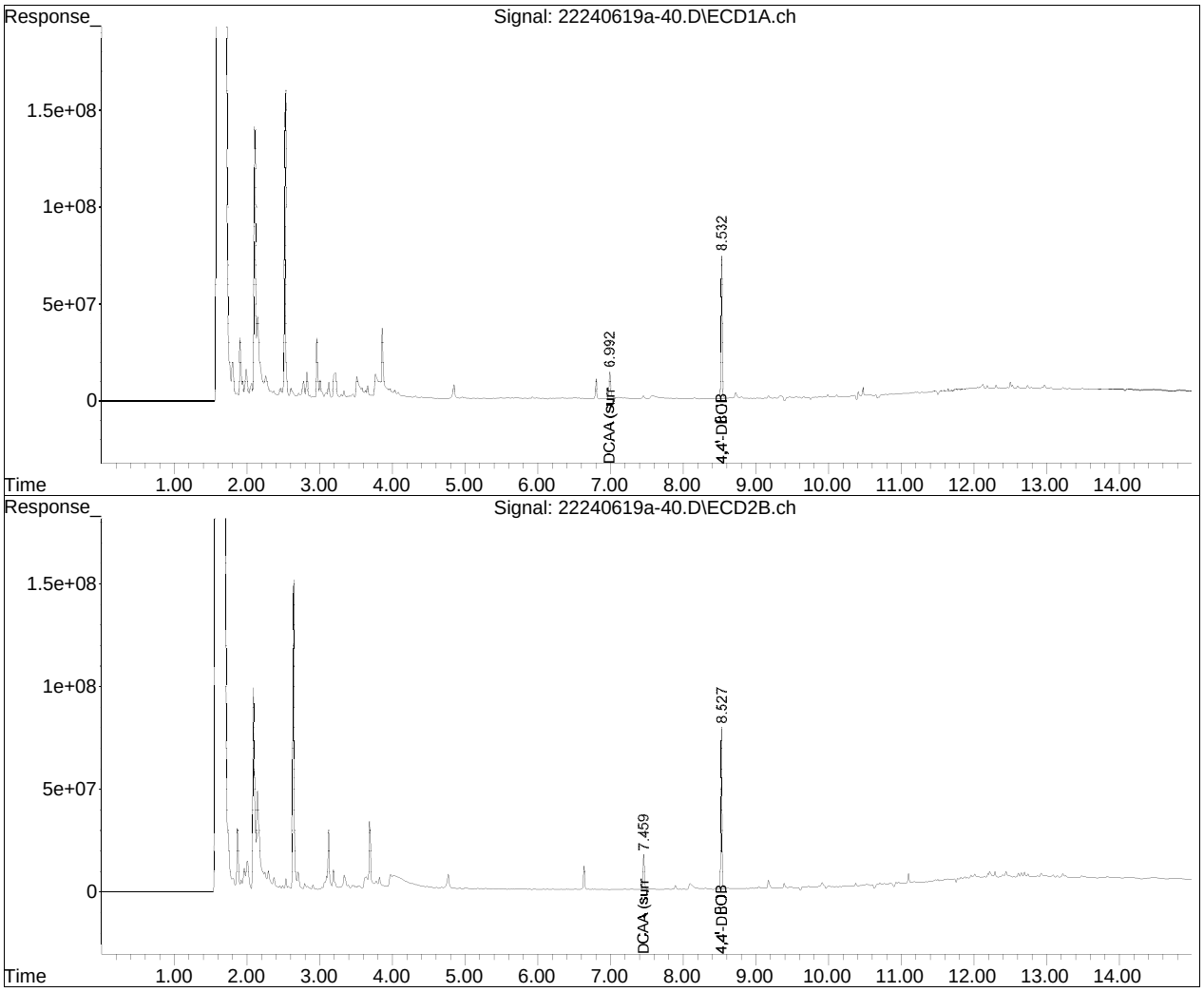
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-34.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-40.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 19:55
Operator : pest22:jag
Sample : L2433035-10,42,,
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 21:46:00 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

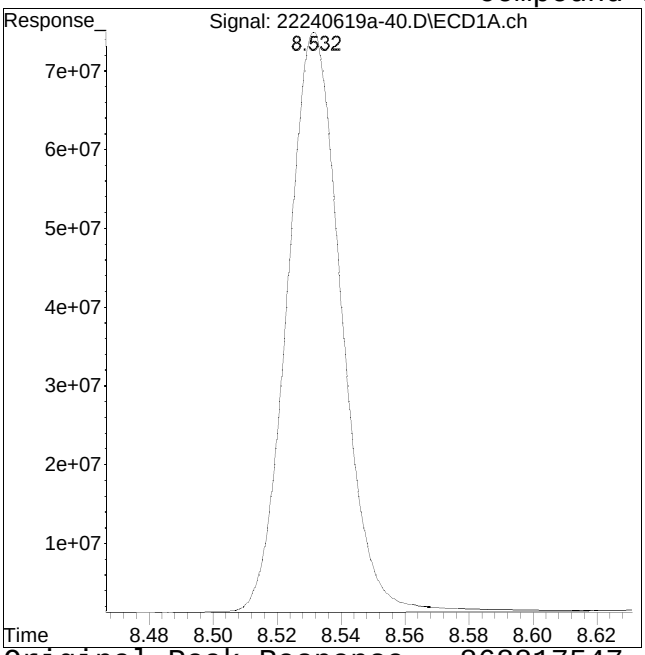
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

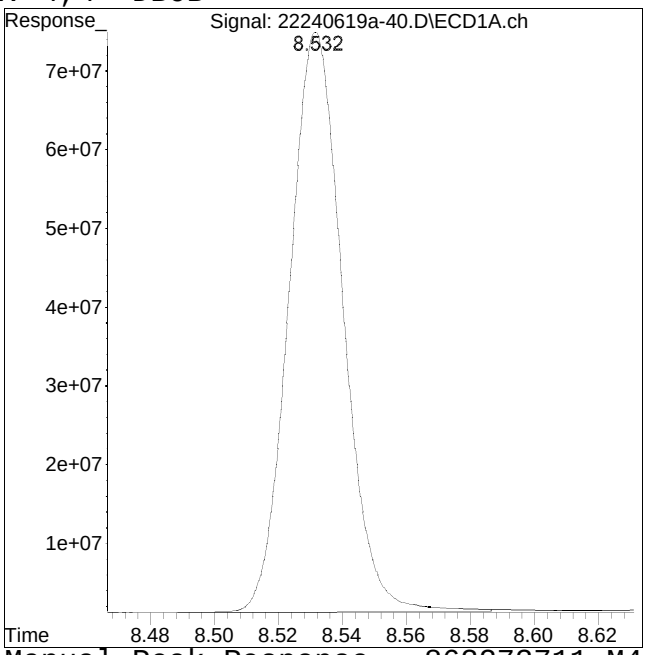


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-40.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:55 Instrument : Pest22
Sample : L2433035-10,42,, Quant Date : 6/19/2024 9:46 pm

Compound #1: 4,4'-DBOB



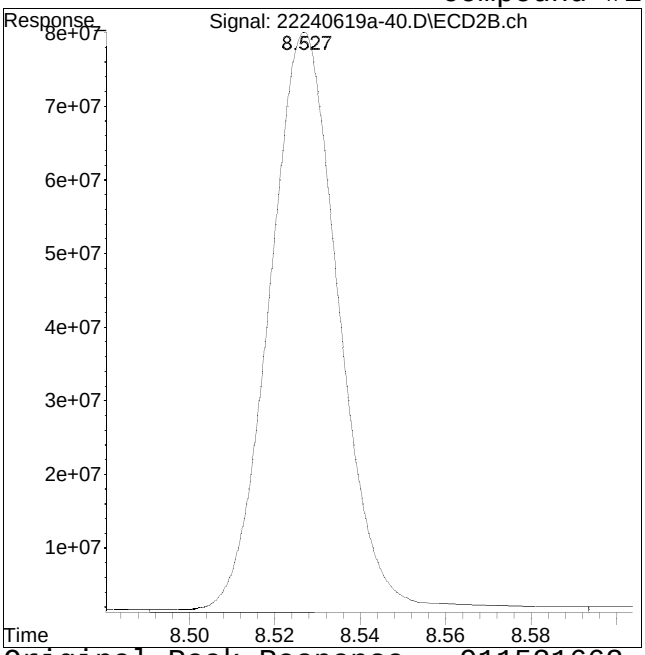


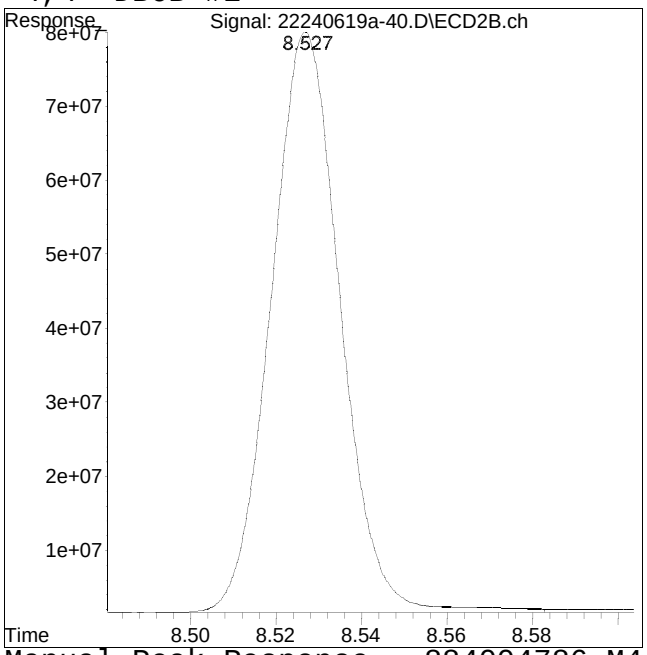
Original Peak Response = 868817547 Manual Peak Response = 862273711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-40.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:55 Instrument : Pest22
Sample : L2433035-10,42,, Quant Date : 6/19/2024 9:46 pm

Compound #14: 4,4'-DBOB #2



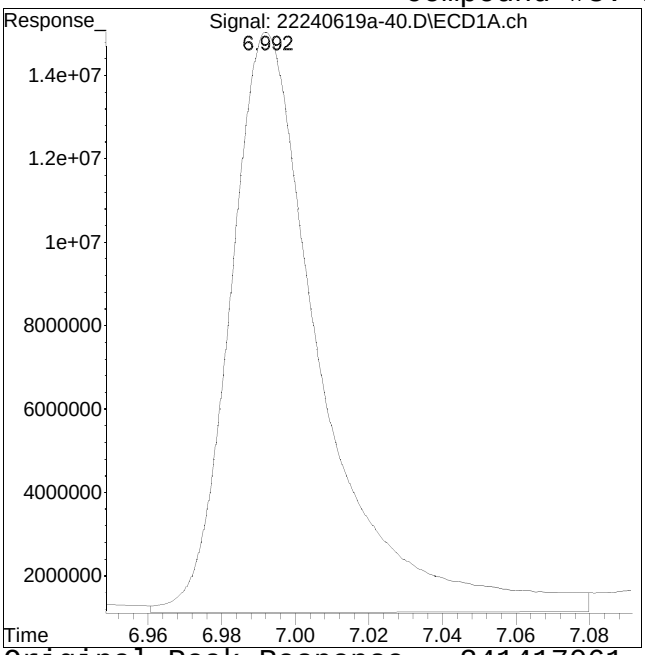


Original Peak Response = 911521662 Manual Peak Response = 884004786 M4
M4 = Poor automated baseline construction.

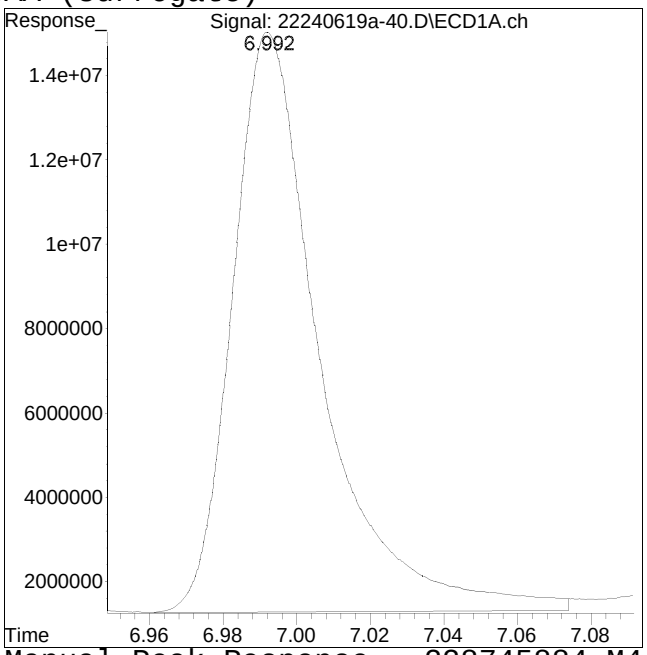
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-40.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:55 Instrument : Pest22
Sample : L2433035-10,42,, Quant Date : 6/19/2024 9:46 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 241417061



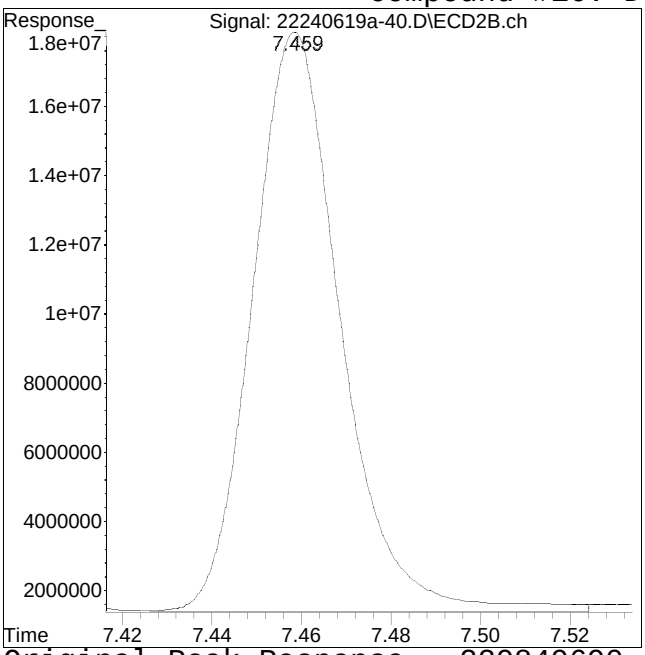
Manual Peak Response = 228745884 M4

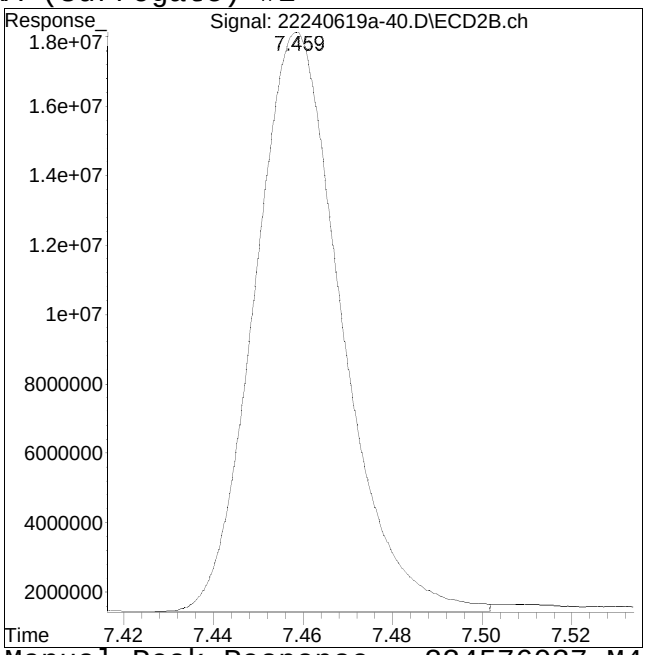
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-40.D Operator : pest22:jag
Date Inj'd : 6/19/2024 19:55 Instrument : Pest22
Sample : L2433035-10,42,, Quant Date : 6/19/2024 9:46 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 229849690 Manual Peak Response = 224576037 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	ISTD							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Silvex)	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Signal #2 Calibration Files

1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D

6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	ISTD							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41
12)	t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Sil...	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Signal #2 Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil...	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.574	8.565	756.9E6	704.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.029	7.496	35328399	32431372	0.059M4	0.059M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	11.80%#	11.80%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	30900834	24425609	0.049M4	0.044M4
4)	t	Dicamba	7.214	7.677	100.2E6	89031745	0.058M4	0.055M4
5)	t	MCPP	7.415	7.788	6799605	10777388	4.240M4	5.312M4
6)	t	MCPA	7.560	8.014	16578581	20607835	5.923M3	6.238M4
7)	t	Dichloroprop	7.916	8.331	34063325	30623615	0.061M4	0.059M4
8)	t	2,4-D	8.125	8.603	40438671	36965903	0.058M4	0.057M4
9)	t	2,4,5-TP (Si	8.842	9.260	143.0E6	129.6E6	0.056M4	0.055M4
10)	t	2,4,5-T	9.057	9.547	138.4E6	124.5E6	0.055M4	0.055M4
11)	t	2,4-DB	9.465	9.908	23445909	22049037	0.061M4	0.057M4
12)	t	Dinoseb	10.217	10.131	79147594	72789265	0.054M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

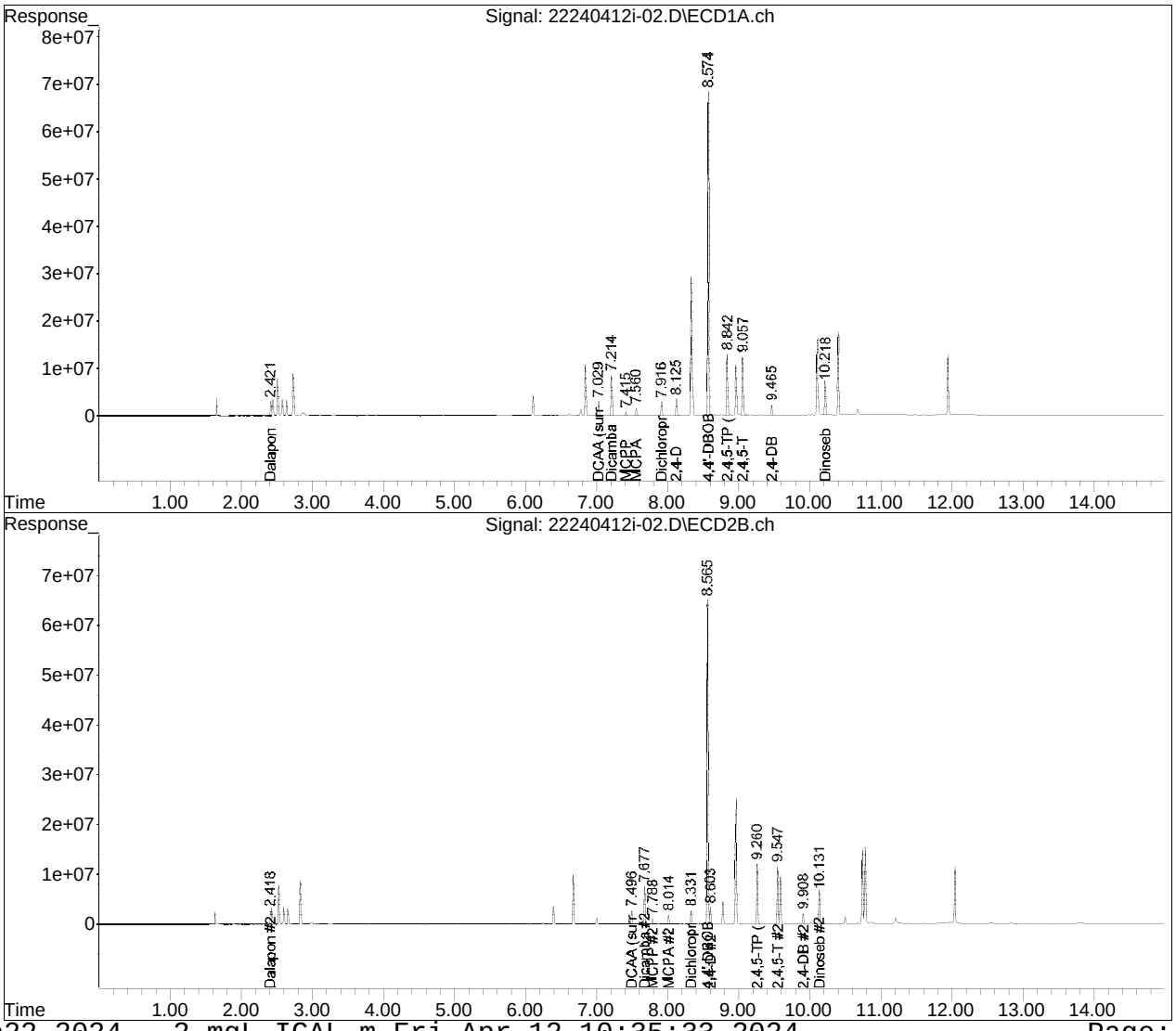
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

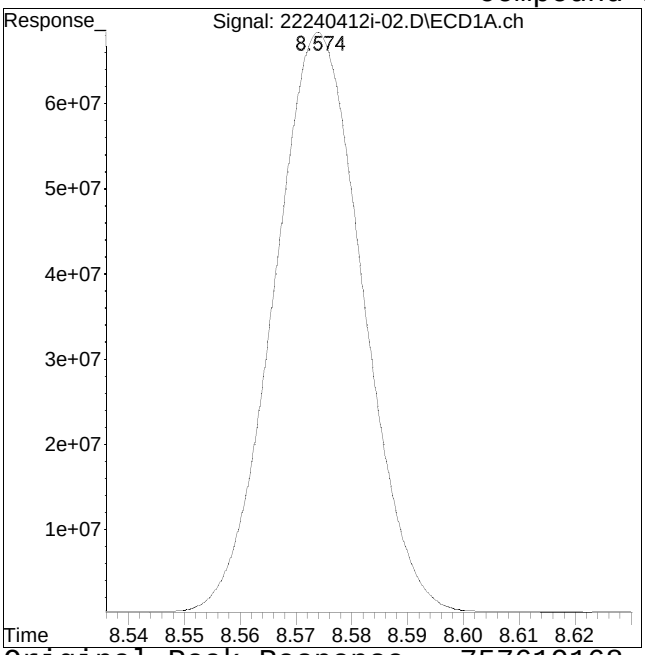
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



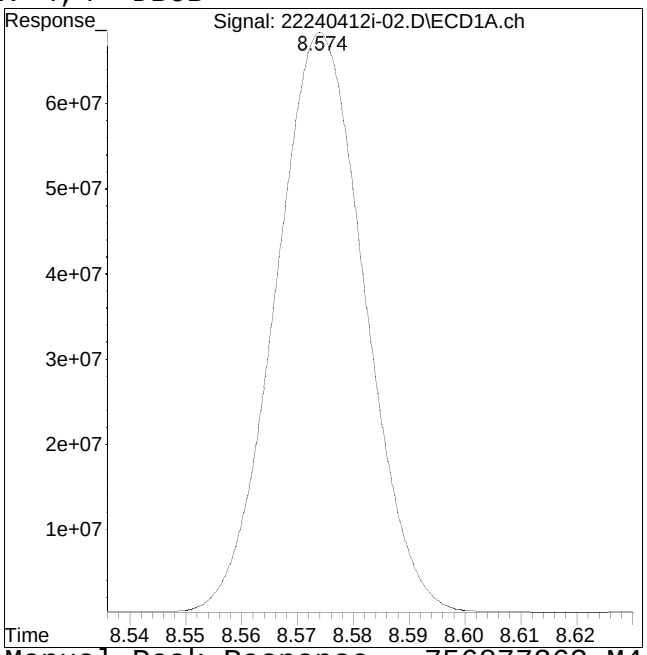
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #1: 4,4'-DBOB



Original Peak Response = 757619168



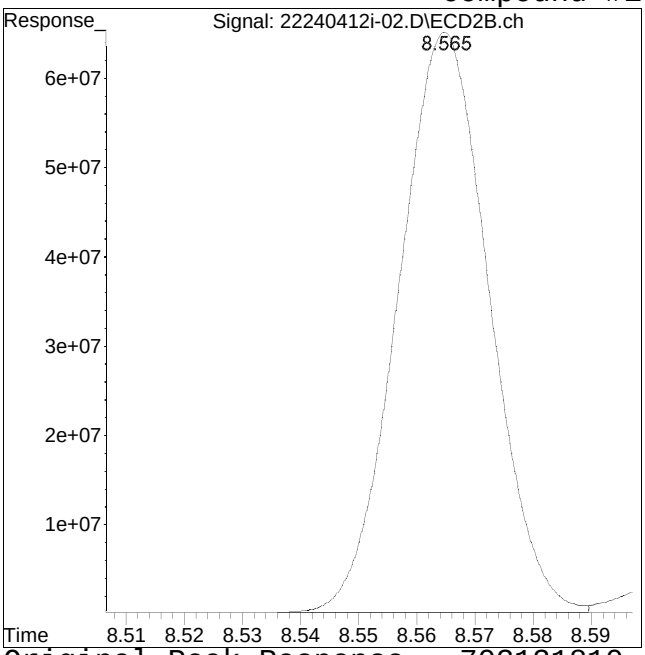
Manual Peak Response = 756877363 M4

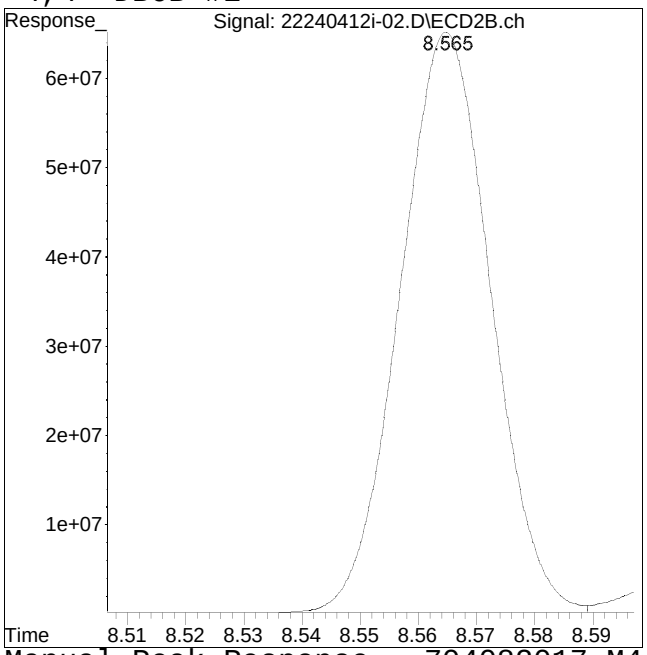
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #14: 4,4'-DBOB #2



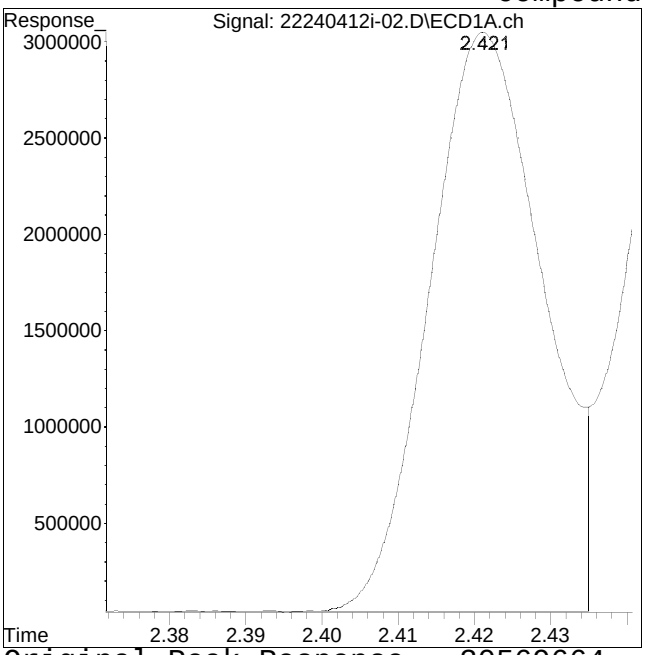


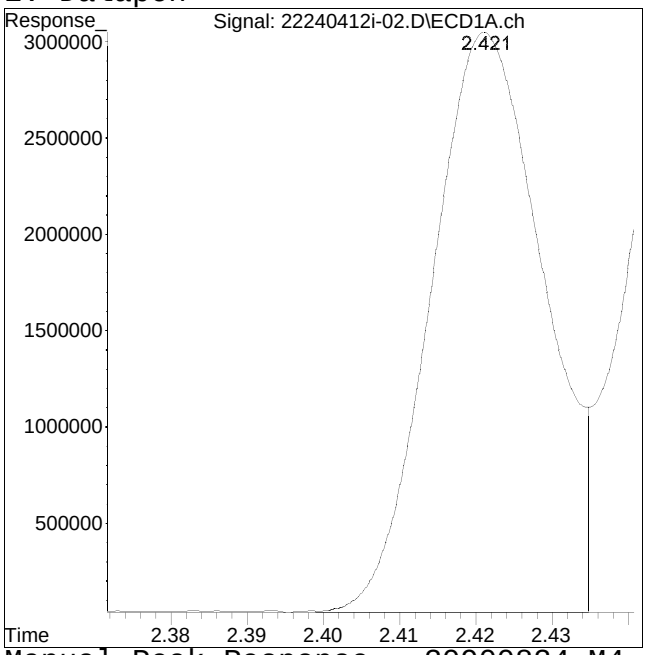
Original Peak Response = 703131810 Manual Peak Response = 704082017 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #2: Dalapon



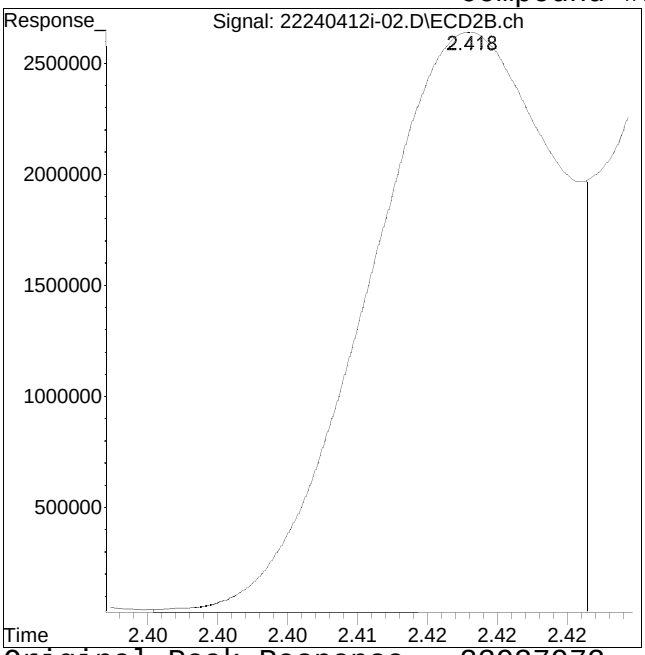


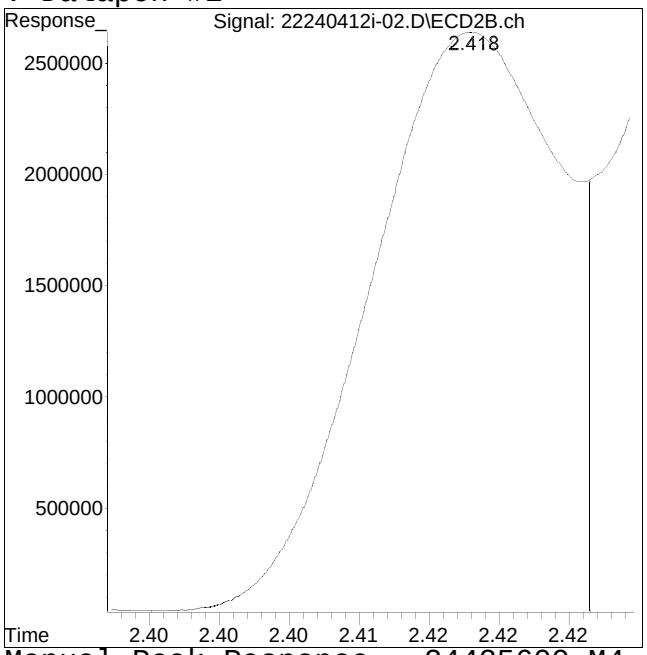
Original Peak Response = 30569664 Manual Peak Response = 30900834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #15: Dalapon #2



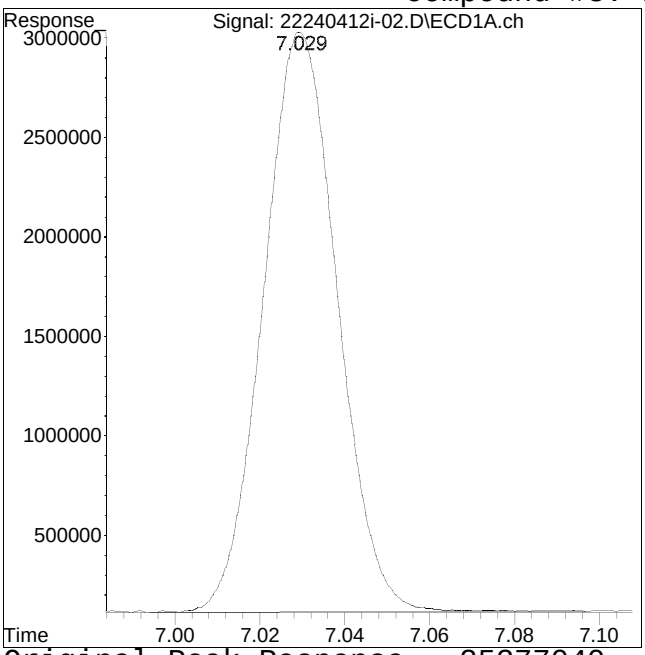


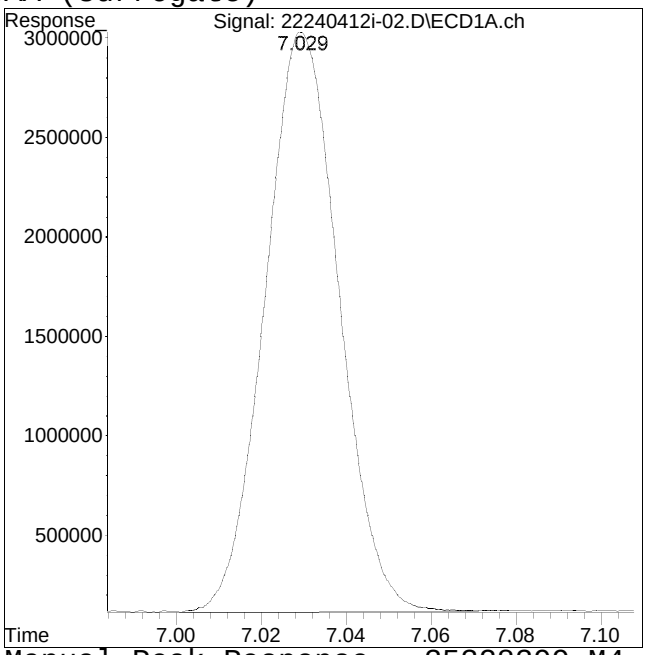
Original Peak Response = 23937972 Manual Peak Response = 24425609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #3: DCAA (surrogate)



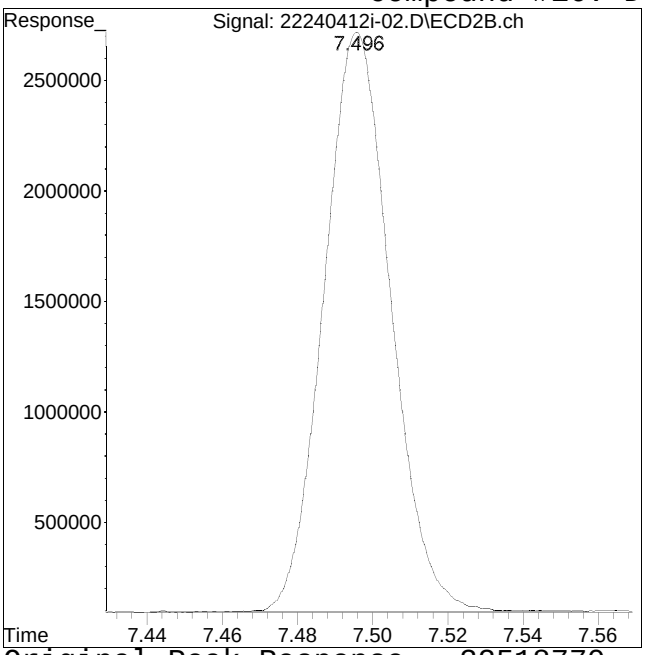


Original Peak Response = 35377040 Manual Peak Response = 35328399 M4
M4 = Poor automated baseline construction.

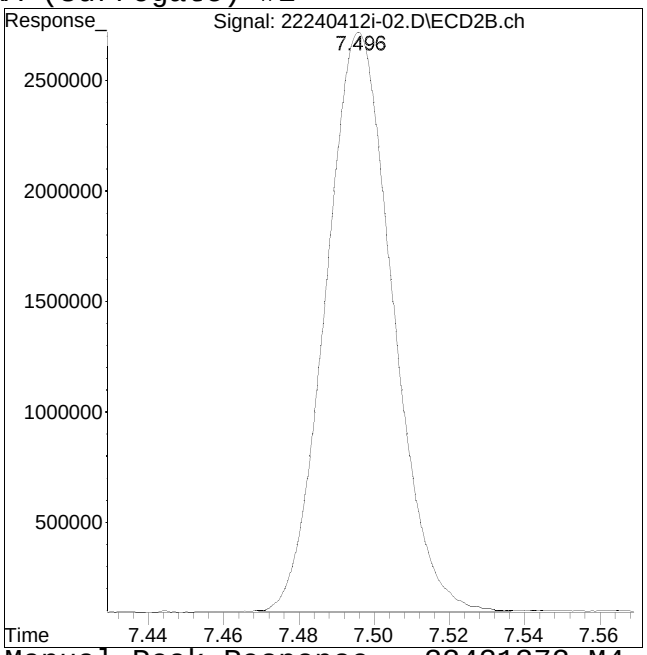
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 32518770



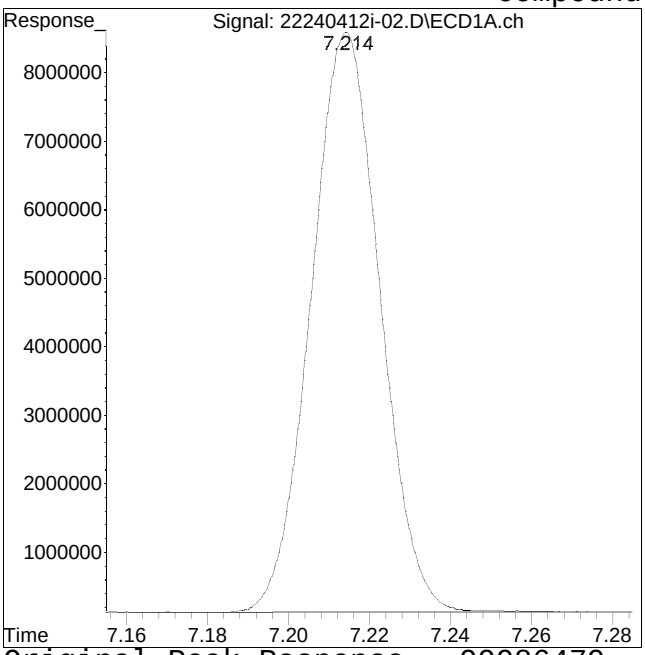
Manual Peak Response = 32431372 M4

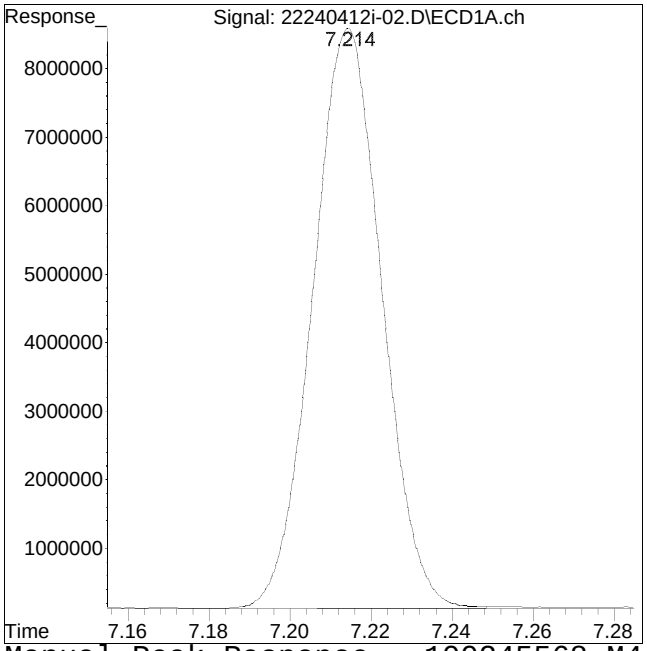
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #4: Dicamba



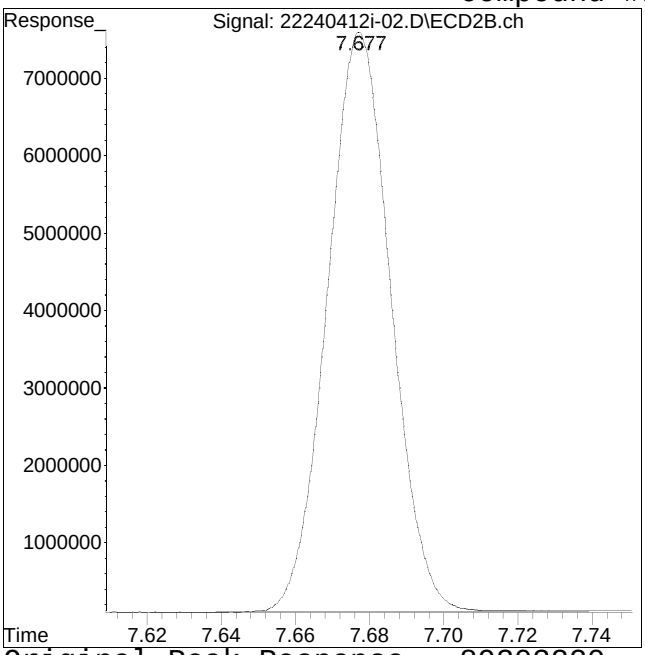


Original Peak Response = 99986479 Manual Peak Response = 100245568 M4
M4 = Poor automated baseline construction.

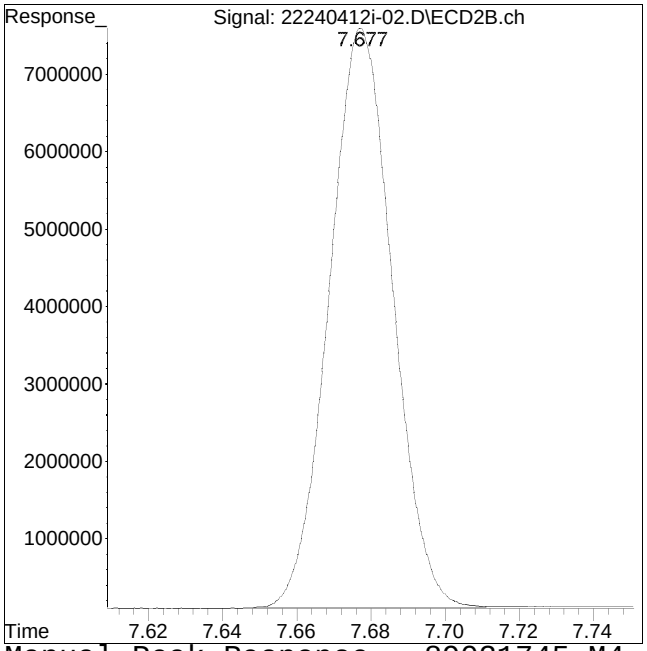
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #17: Dicamba #2



Original Peak Response = 89303220



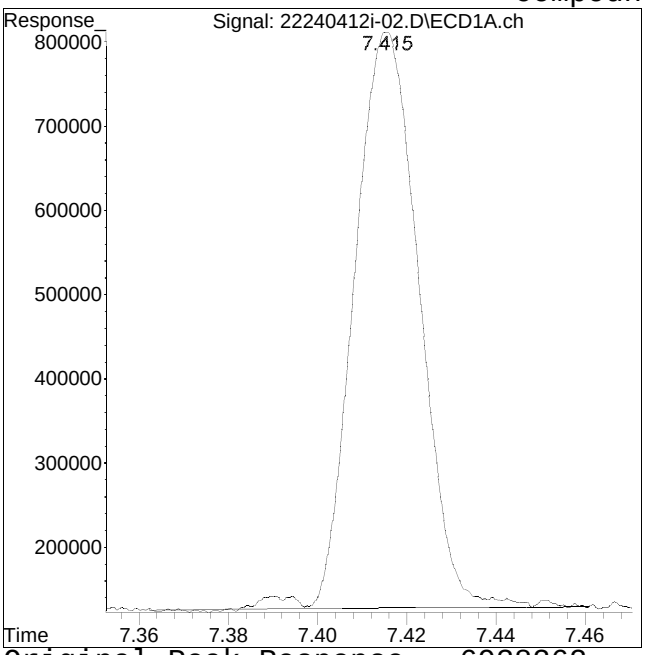
Manual Peak Response = 89031745 M4

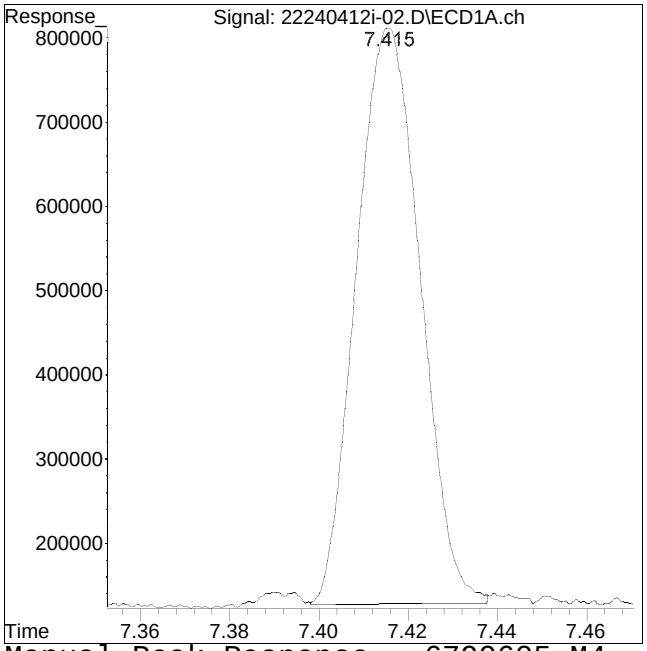
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #5: MCPP



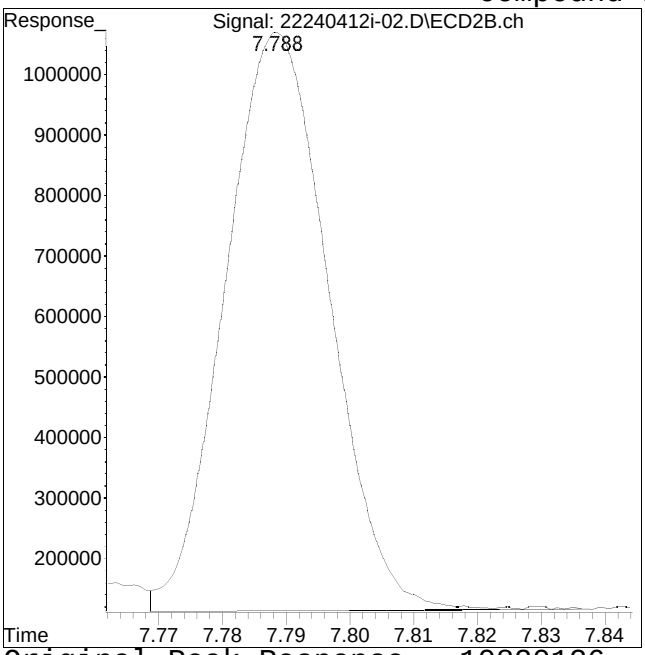


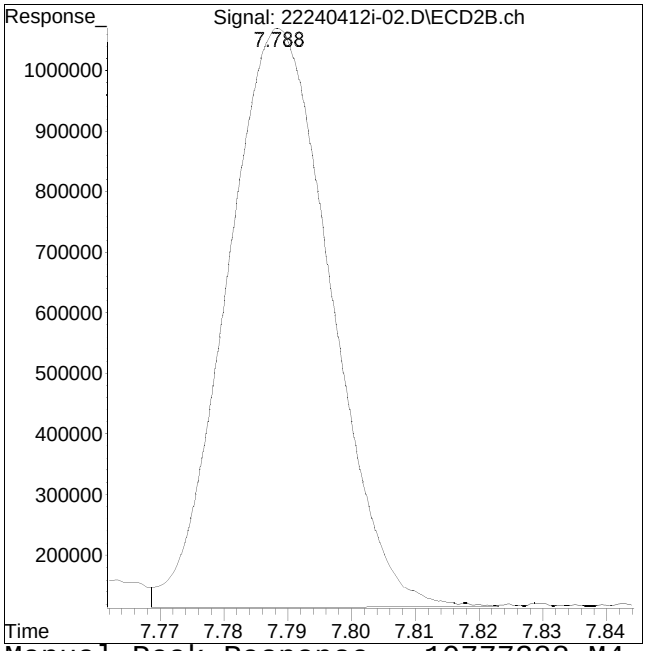
Original Peak Response = 6938262 Manual Peak Response = 6799605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #18: MCPP #2



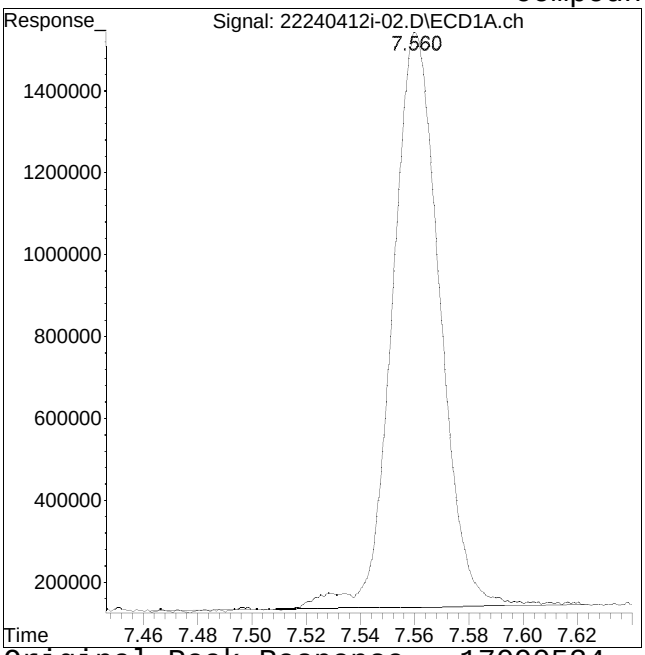


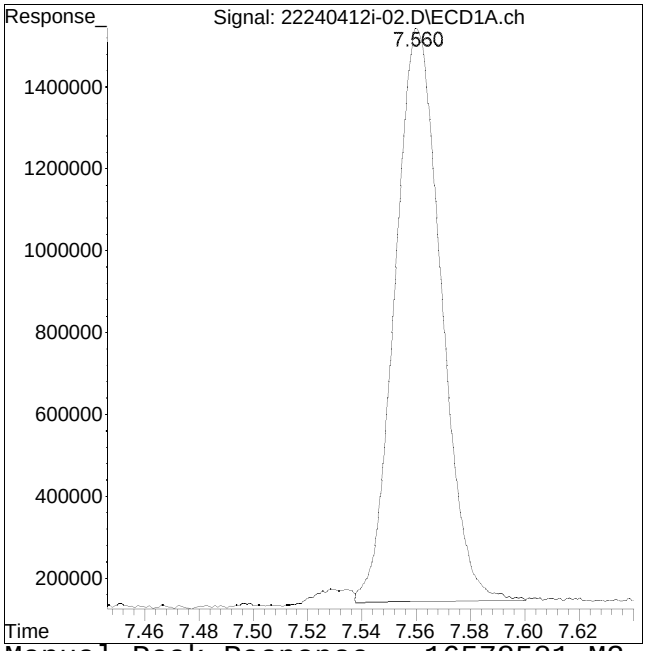
Original Peak Response = 10820126 Manual Peak Response = 10777388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #6: MCPA



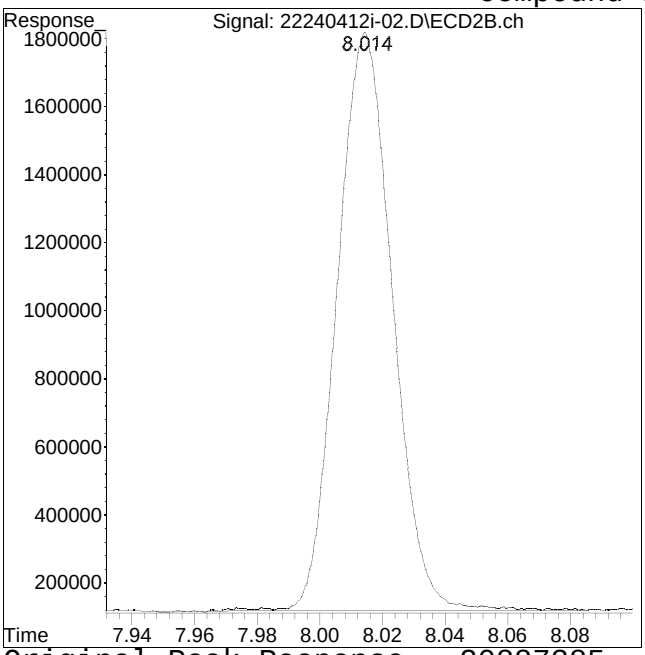


Original Peak Response = 17090534 Manual Peak Response = 16578581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

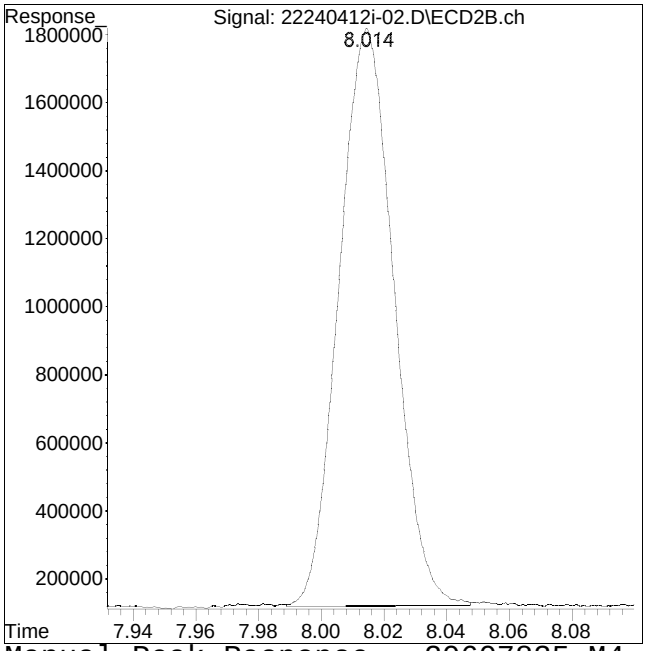
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #19: MCPA #2



Original Peak Response = 20887385



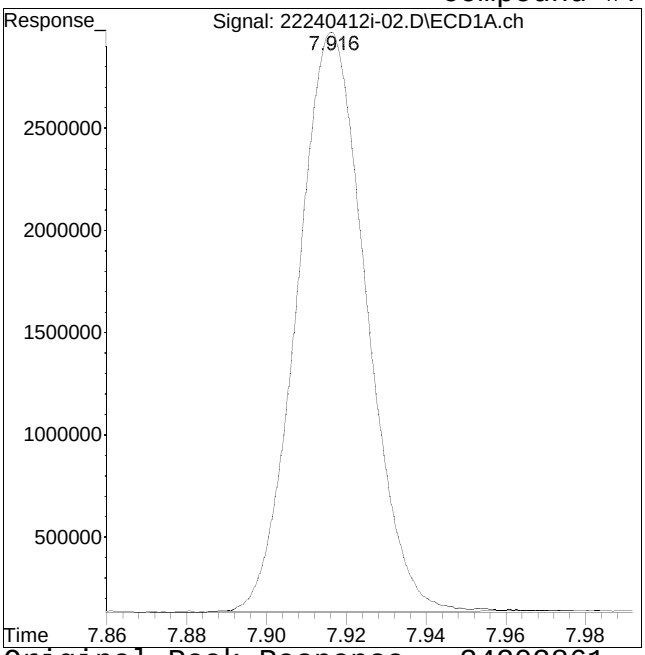
Manual Peak Response = 20607835 M4

M4 = Poor automated baseline construction.

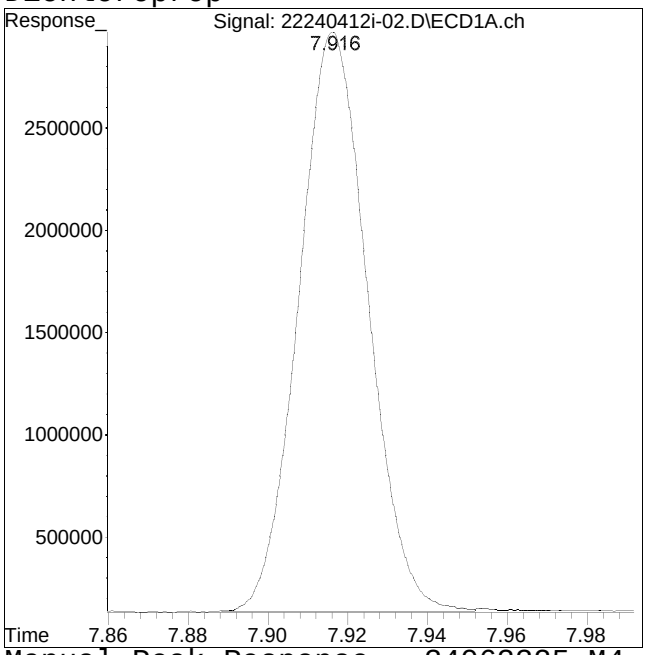
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #7: Dichloroprop



Original Peak Response = 34203861



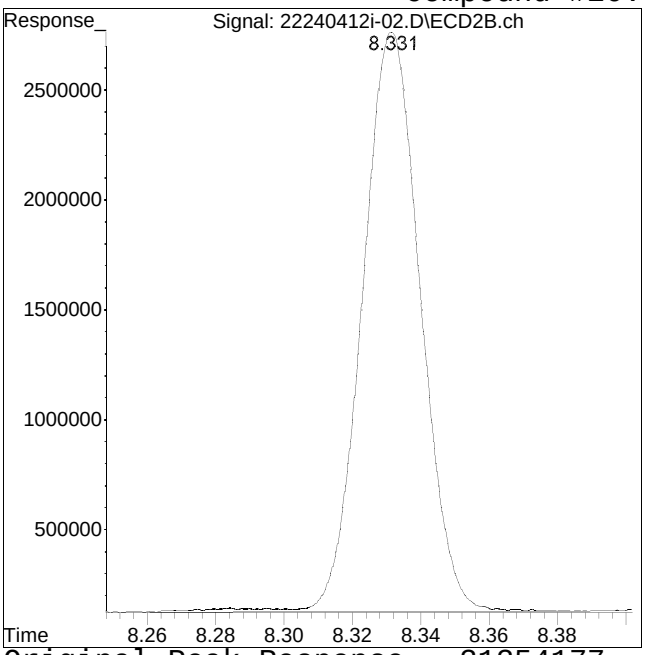
Manual Peak Response = 34063325 M4

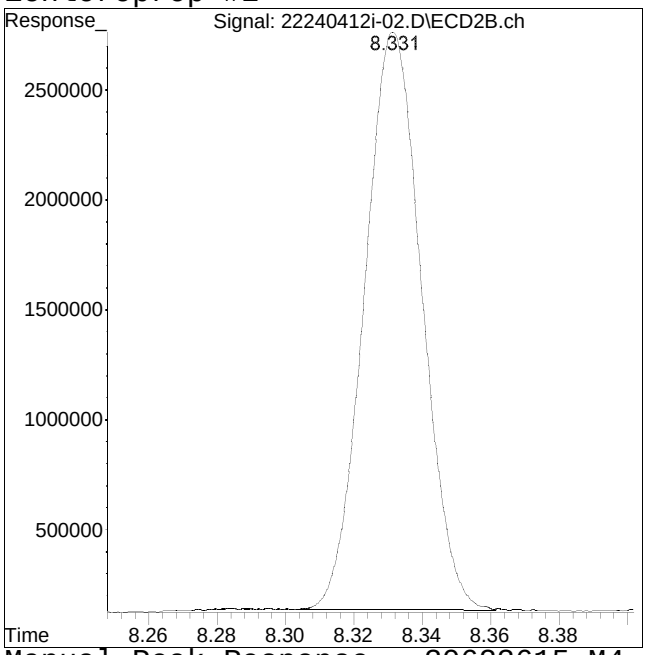
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #20: Dichloroprop #2



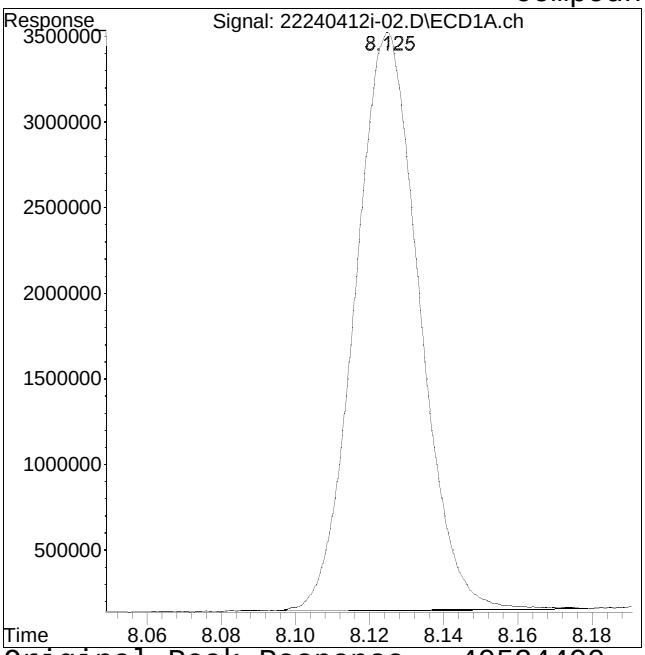


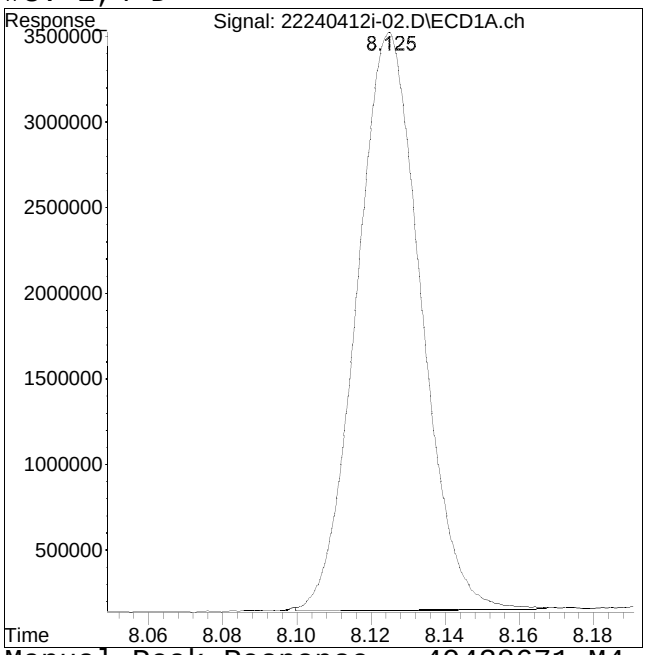
Original Peak Response = 31354177 Manual Peak Response = 30623615 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #8: 2,4-D



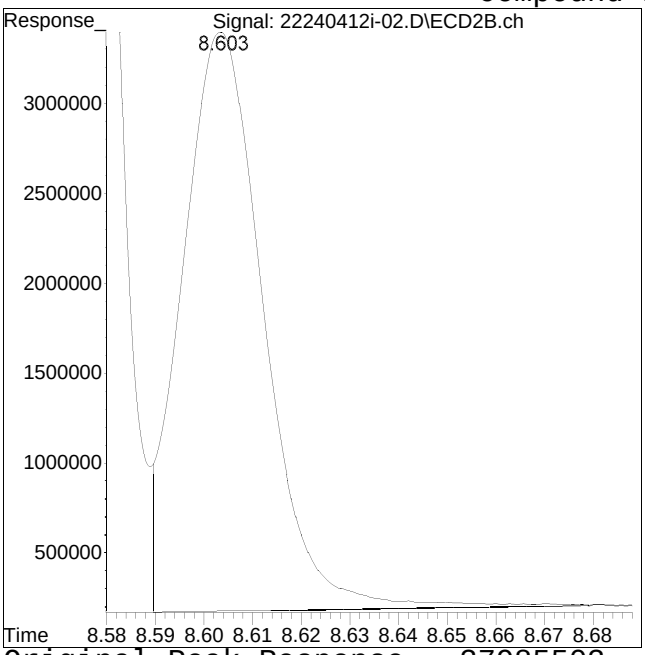


Original Peak Response = 40524490 Manual Peak Response = 40438671 M4
M4 = Poor automated baseline construction.

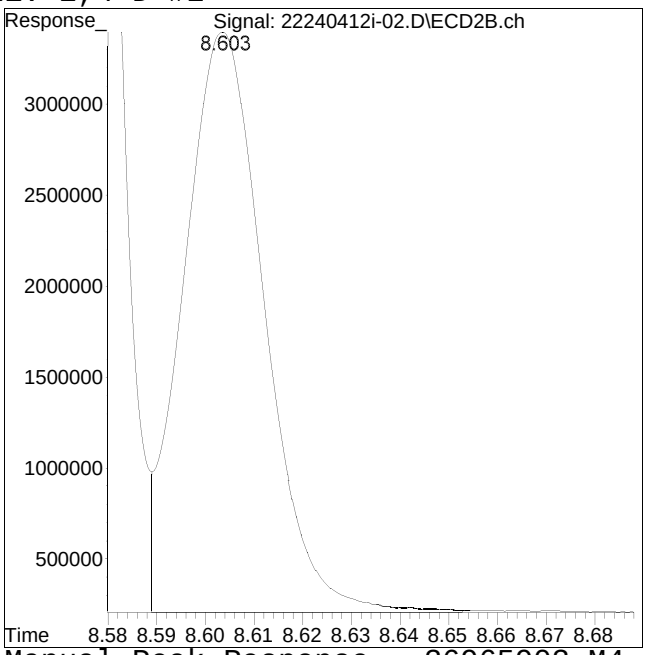
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #21: 2,4-D #2



Original Peak Response = 37985503



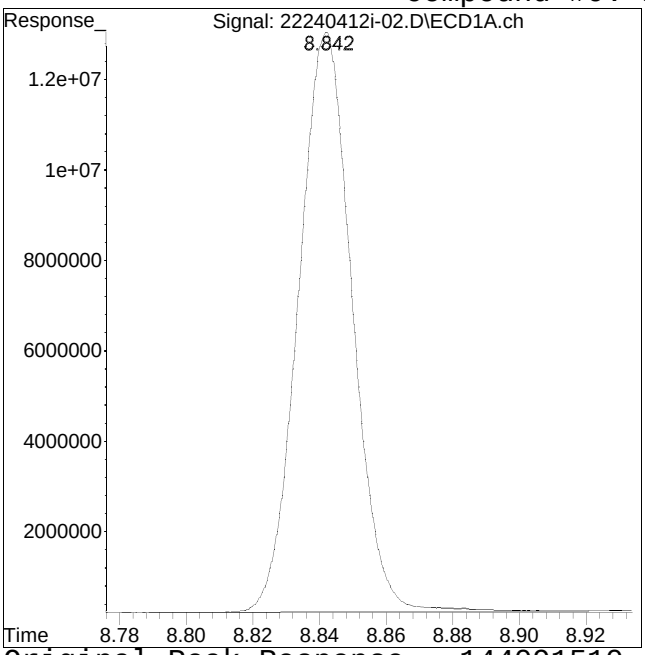
Manual Peak Response = 36965903 M4

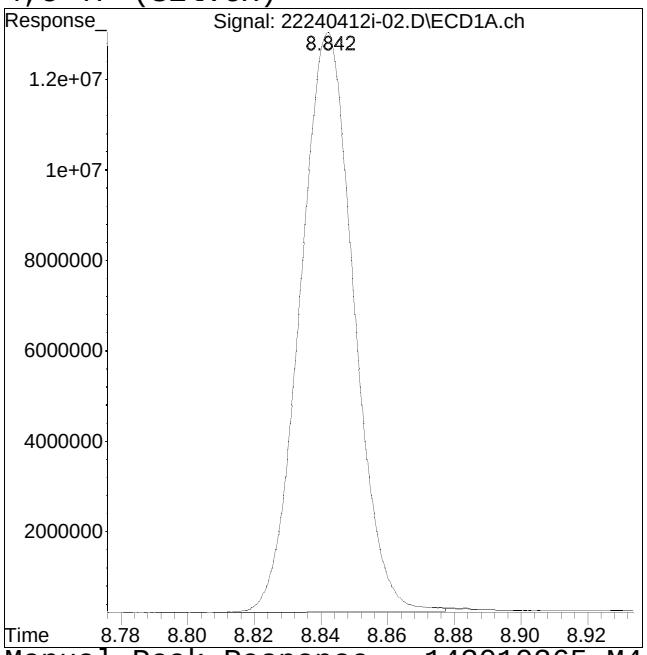
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #9: 2,4,5-TP (Silvex)



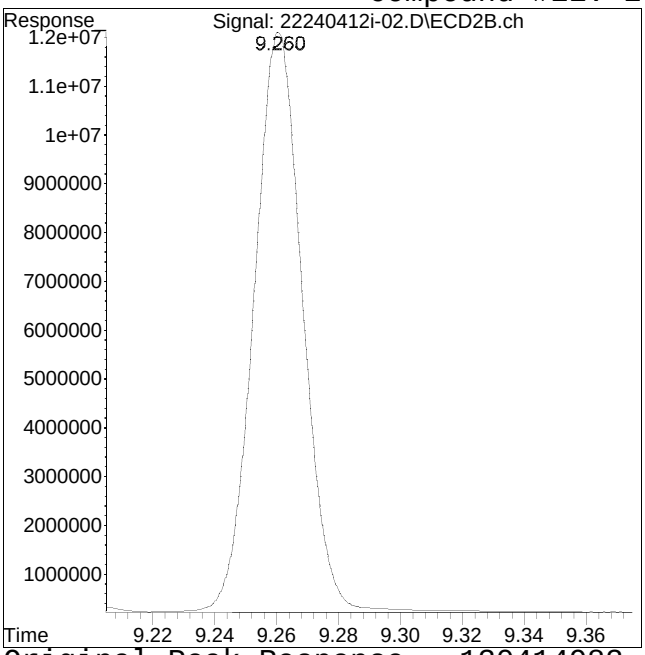


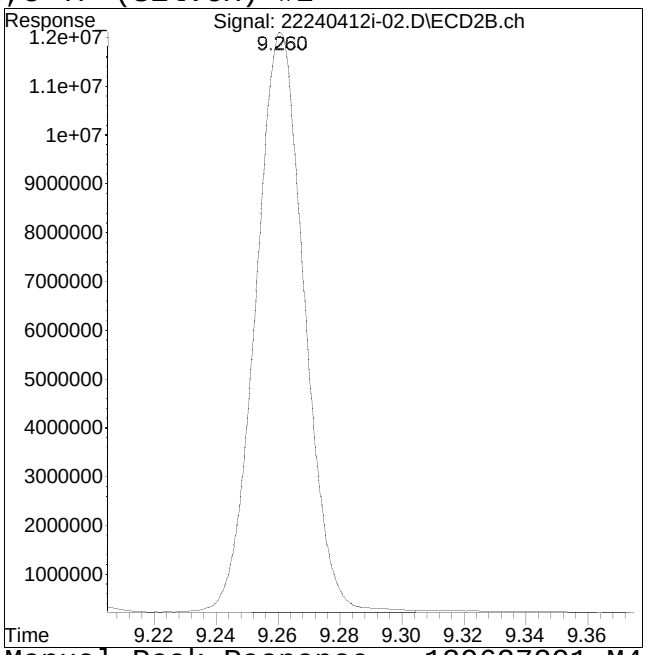
Original Peak Response = 144091510 Manual Peak Response = 143010365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #22: 2,4,5-TP (Silvex) #2



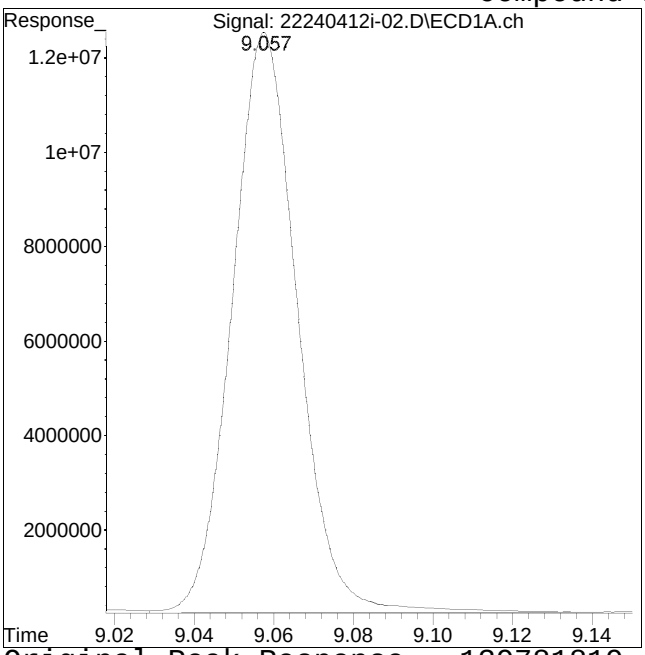


Original Peak Response = 130414983 Manual Peak Response = 129627291 M4
M4 = Poor automated baseline construction.

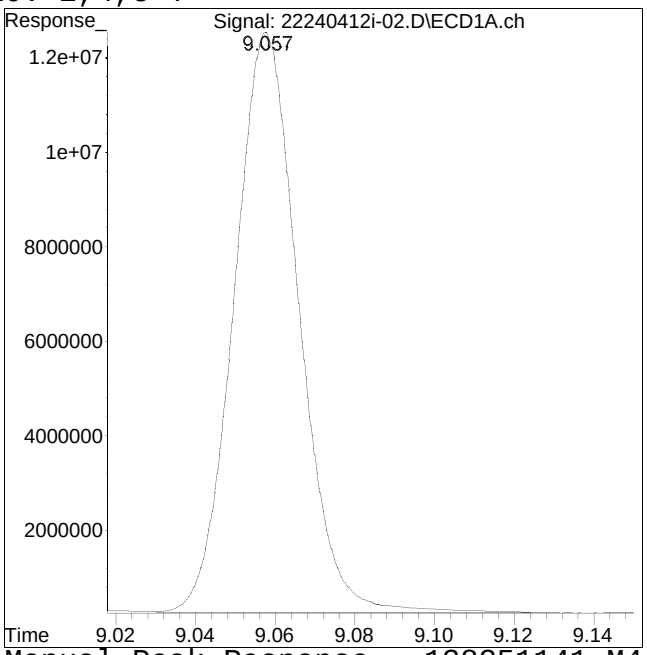
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #10: 2,4,5-T



Original Peak Response = 139781819



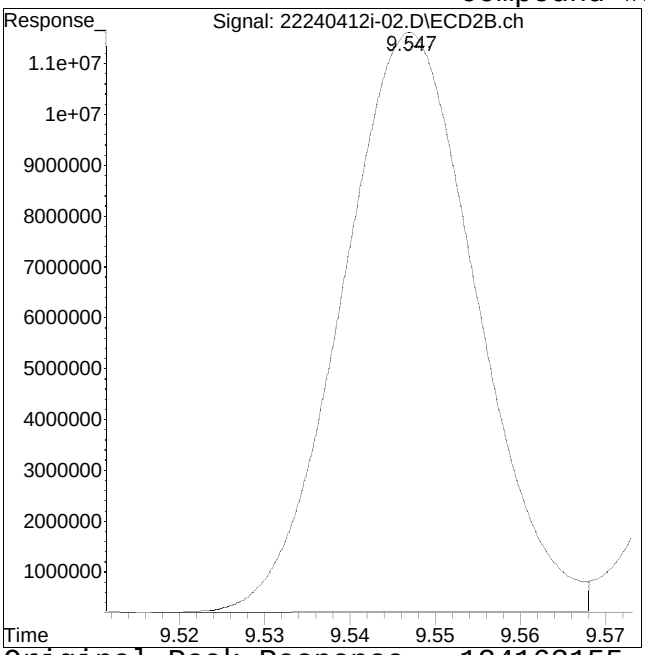
Manual Peak Response = 138351141 M4

M4 = Poor automated baseline construction.

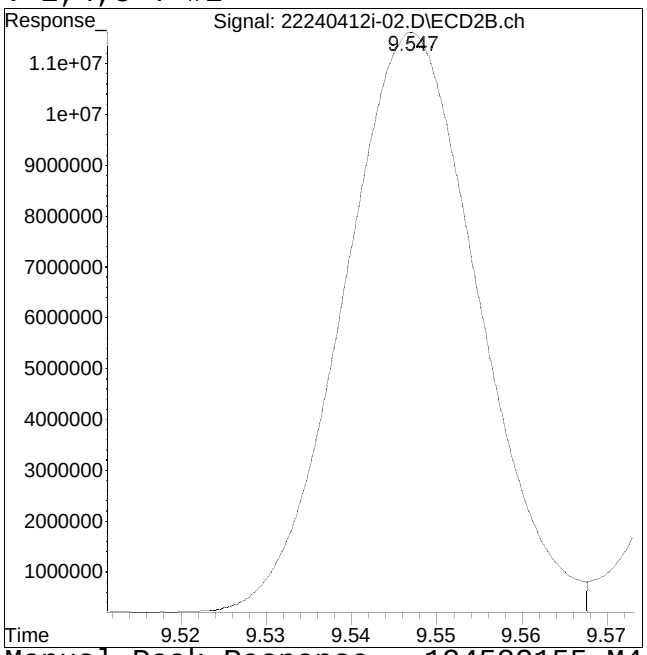
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #23: 2,4,5-T #2



Original Peak Response = 124163155

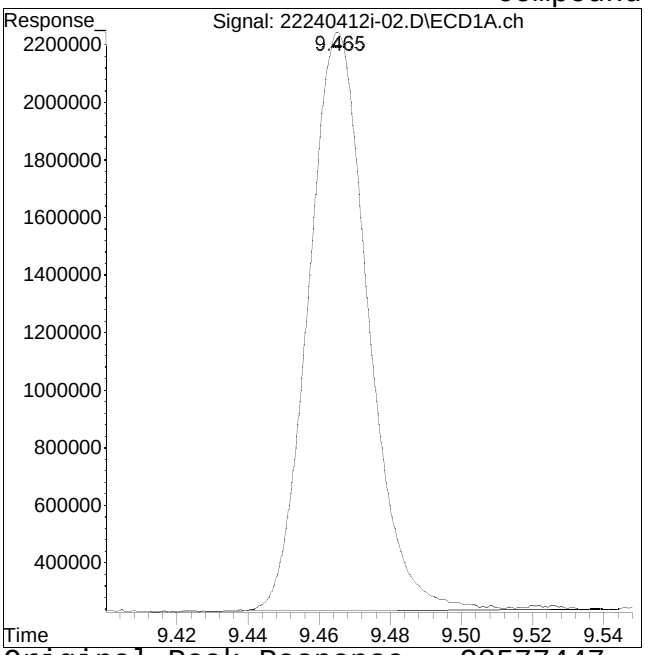


Manual Peak Response = 124522155 M4
M4 = Poor automated baseline construction.

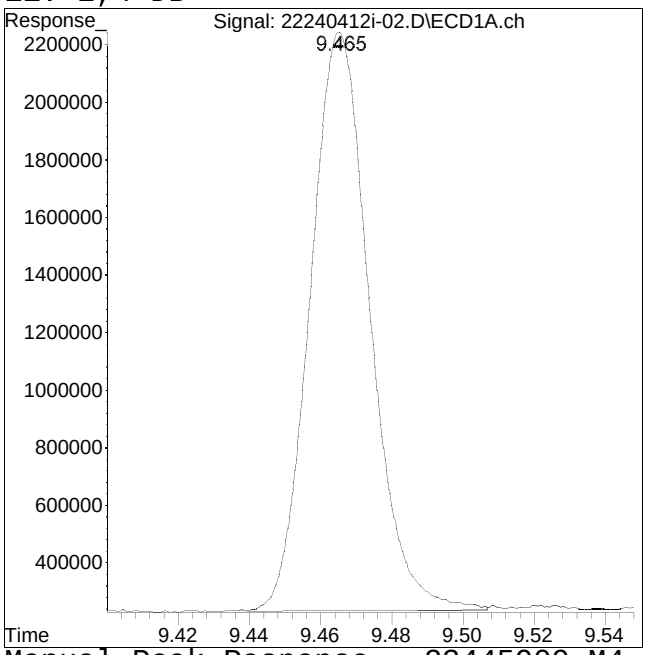
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #11: 2,4-DB



Original Peak Response = 23577447



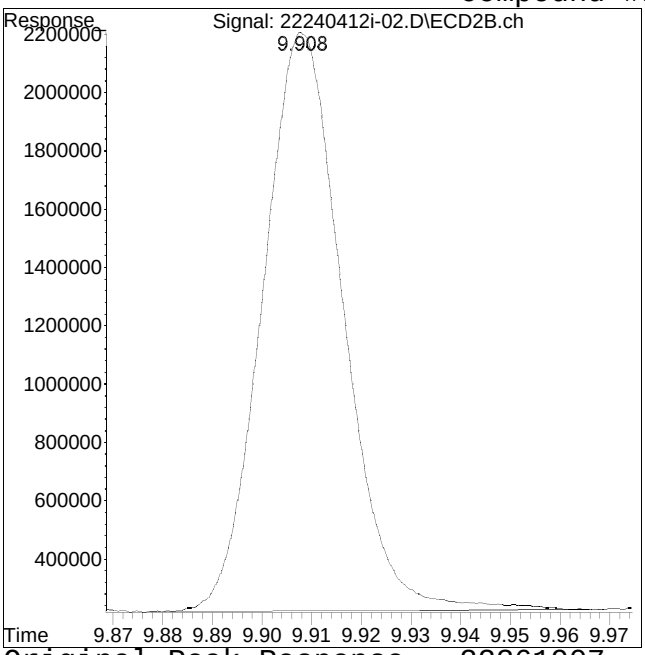
Manual Peak Response = 23445909 M4

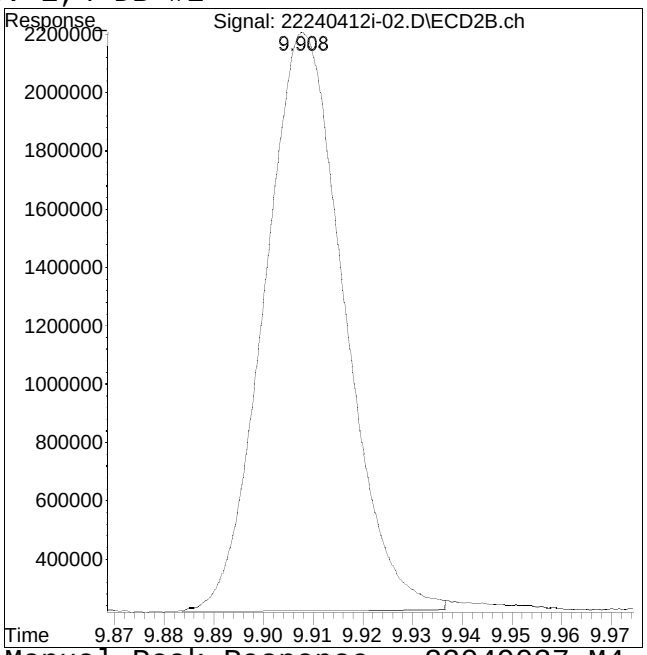
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #24: 2,4-DB #2



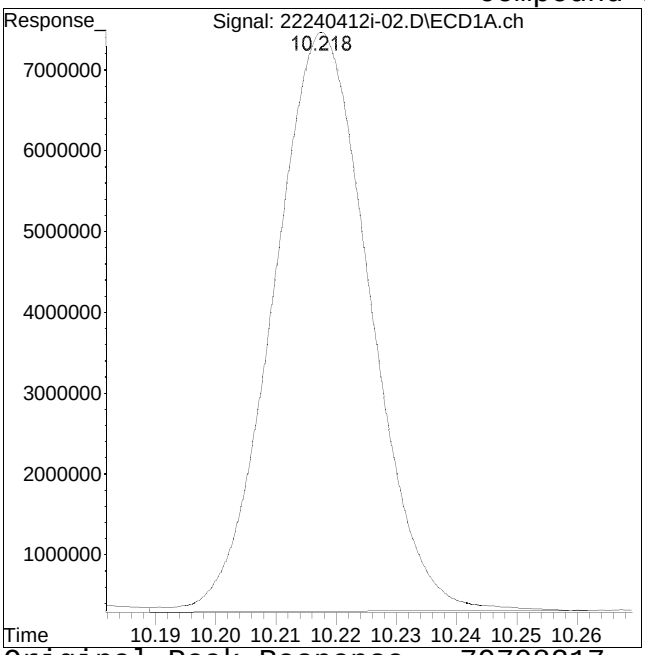


Original Peak Response = 22361907 Manual Peak Response = 22049037 M4
M4 = Poor automated baseline construction.

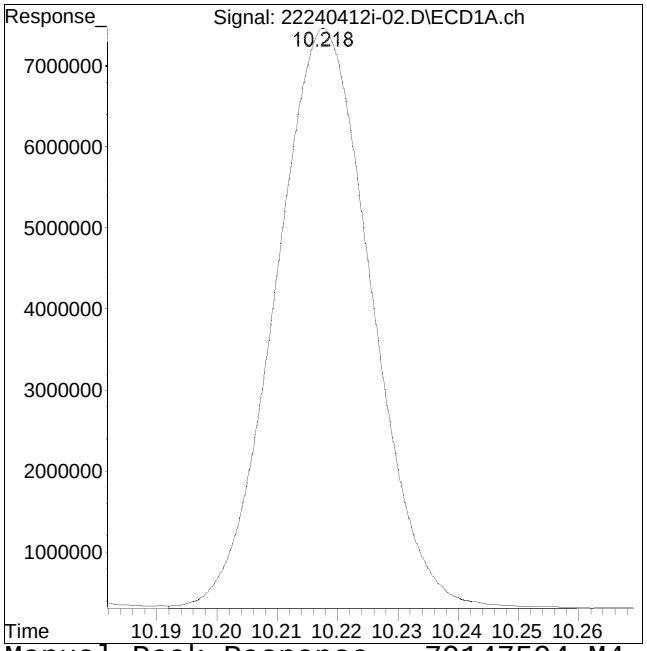
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #12: Dinoseb



Original Peak Response = 79708217



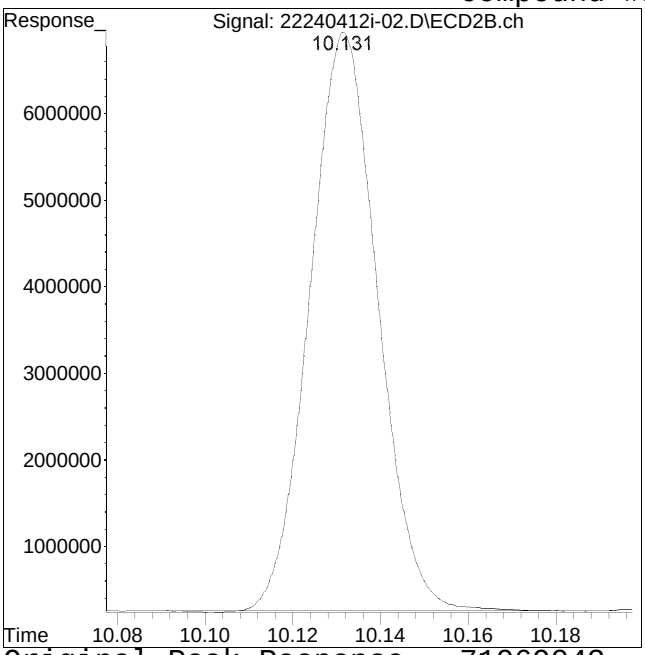
Manual Peak Response = 79147594 M4

M4 = Poor automated baseline construction.

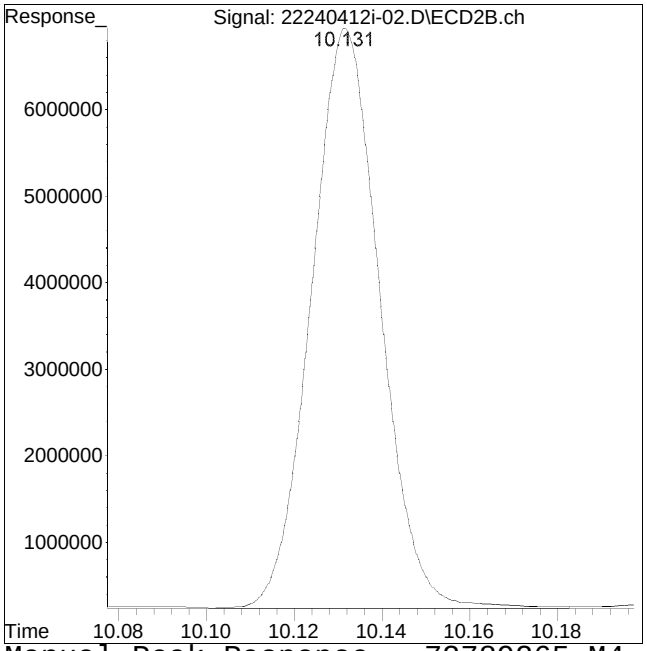
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #25: Dinoseb #2



Original Peak Response = 71969043



Manual Peak Response = 72789265 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	766.6E6	713.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	65965180	60068272	0.114M4	0.113M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	22.80%#	22.60%#
		Target Compounds						
2)	t	Dalapon	2.424	2.420	63862421	54348641	0.102M4	0.097M3
4)	t	Dicamba	7.213	7.677	190.1E6	170.6E6	0.114M4	0.106M4
5)	t	MCPP	7.414	7.788	14933212	20689286	9.144M4	10.250M4
6)	t	MCPA	7.559	8.013	30631672	36896219	11.261M4	11.563M4
7)	t	Dichloroprop	7.915	8.330	63381649	57364341	0.118M4	0.114M4
8)	t	2,4-D	8.123	8.602	77300208	68835400	0.114M4	0.109M4
9)	t	2,4,5-TP (Si	8.840	9.260	278.1E6	251.0E6	0.111M3	0.109M4
10)	t	2,4,5-T	9.056	9.546	271.4E6	240.4E6	0.110M4	0.106
11)	t	2,4-DB	9.463	9.907	43677635	41468808	0.118M4	0.110M4
12)	t	Dinoseb	10.216	10.131	155.1E6	140.9E6	0.108M4	0.105

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

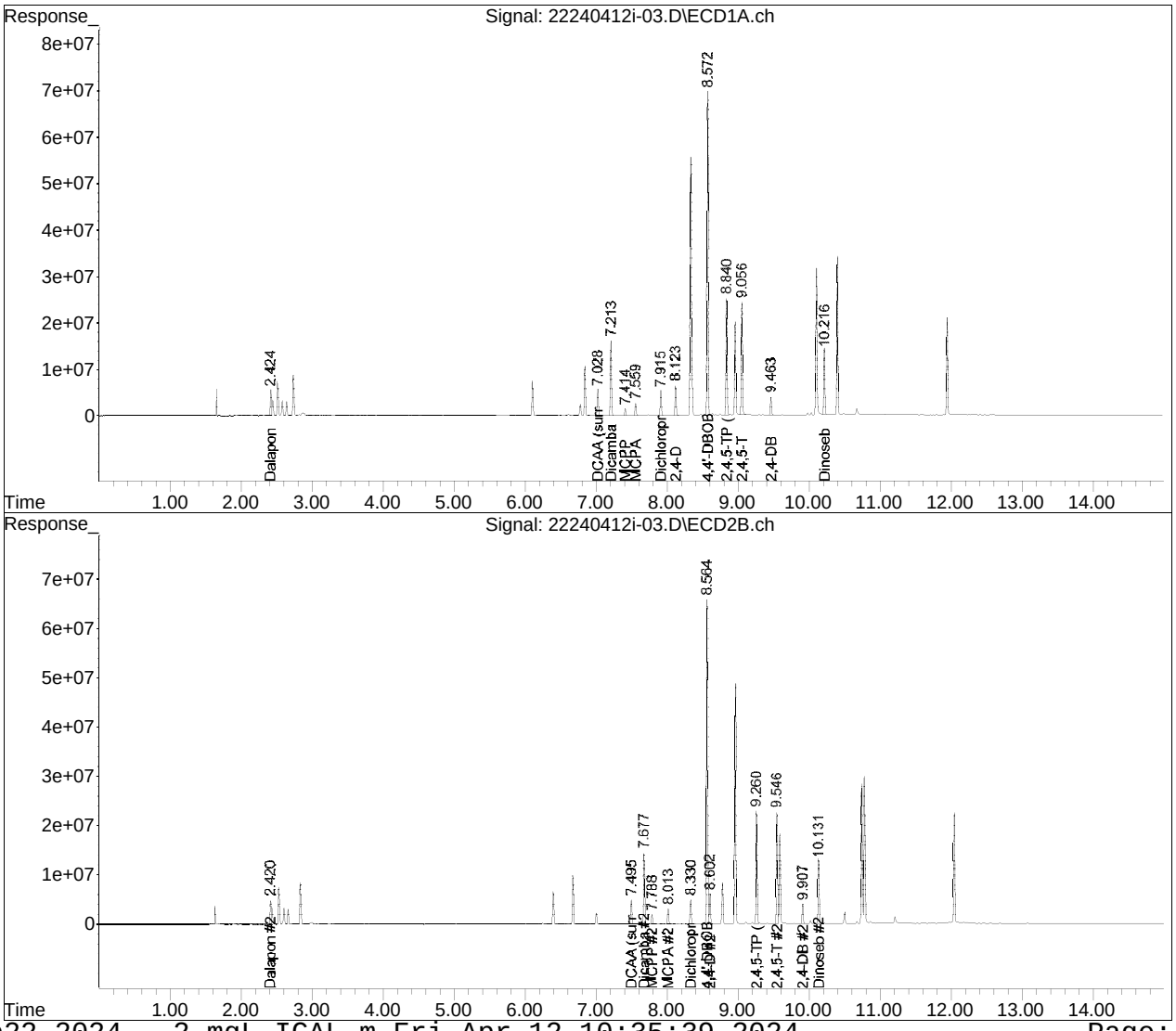
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

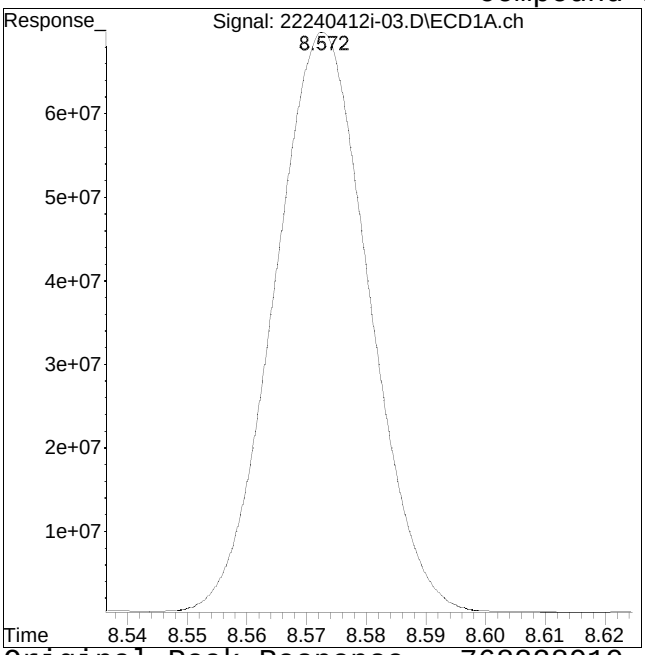
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

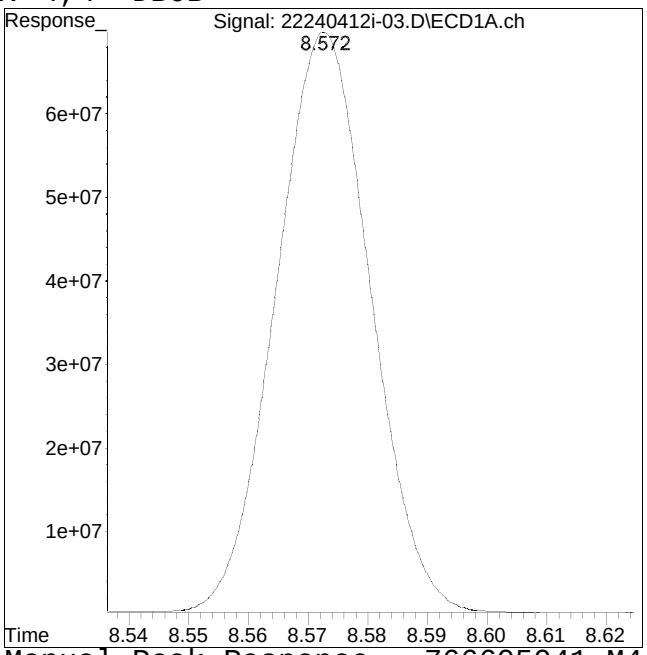


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #1: 4,4'-DBOB



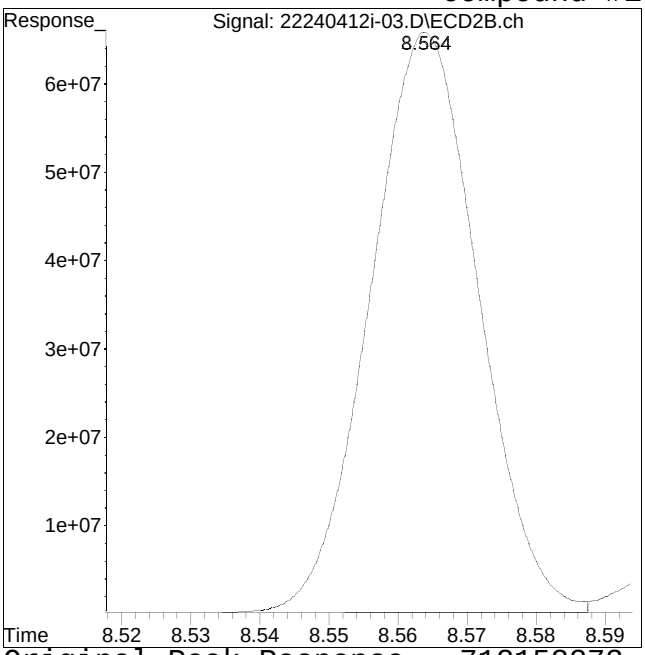


Original Peak Response = 768228910 Manual Peak Response = 766605041 M4
M4 = Poor automated baseline construction.

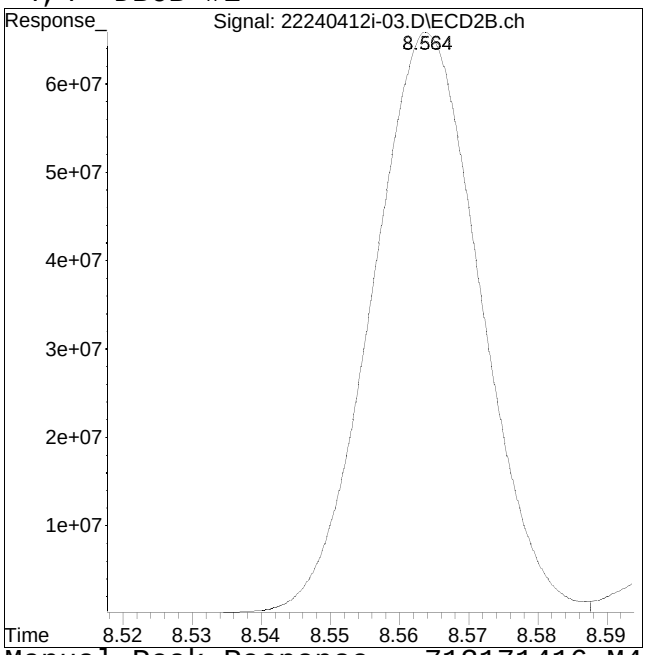
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 712152273

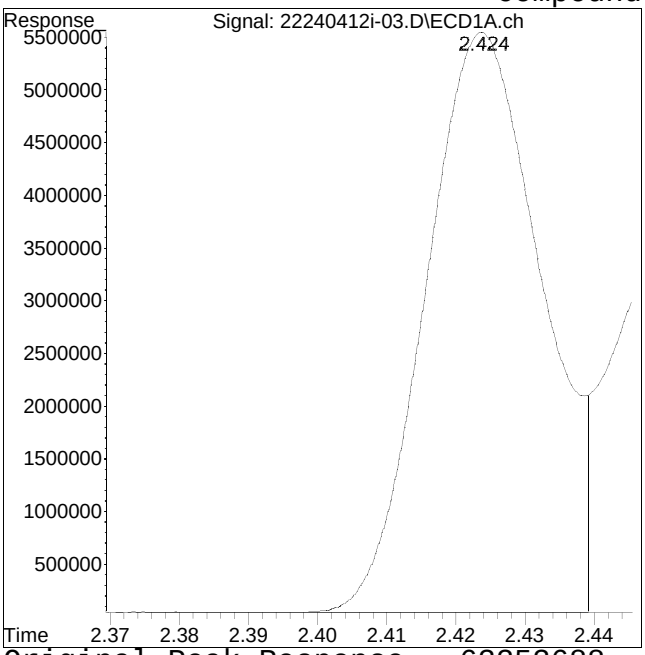


Manual Peak Response = 713171416 M4
M4 = Poor automated baseline construction.

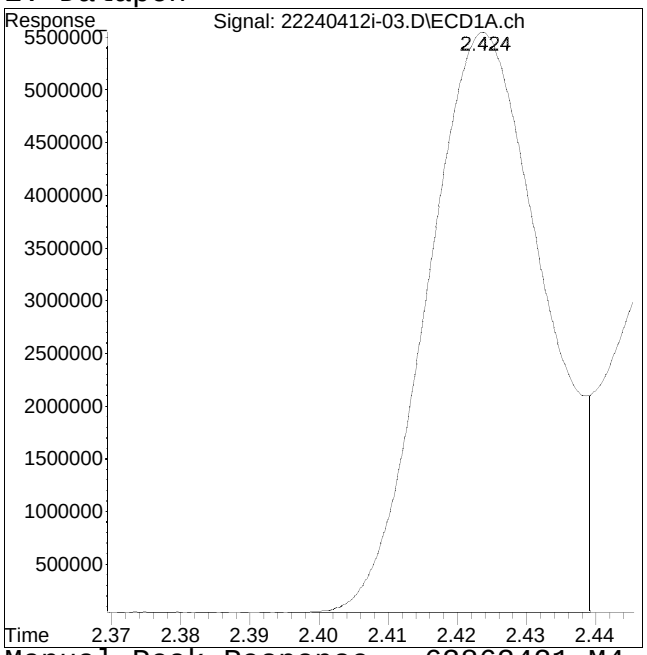
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #2: Dalapon



Original Peak Response = 63353688

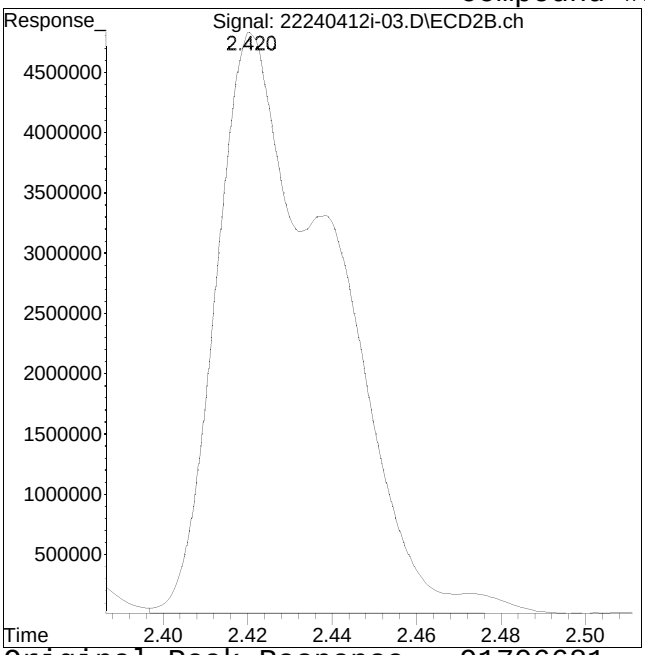


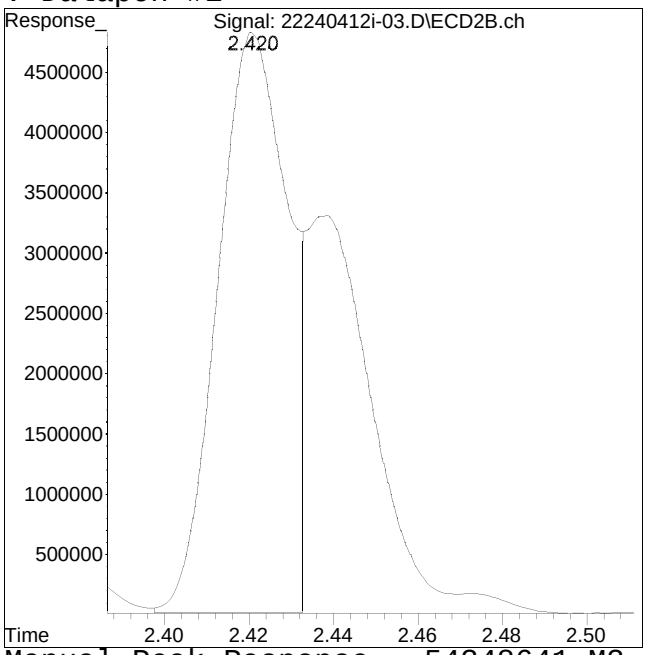
Manual Peak Response = 63862421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #15: Dalapon #2



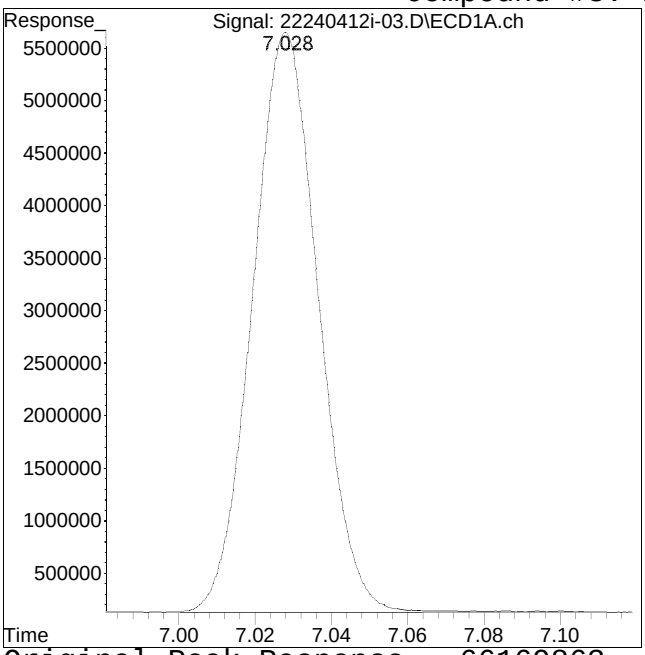


Original Peak Response = 91706681 Manual Peak Response = 54348641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

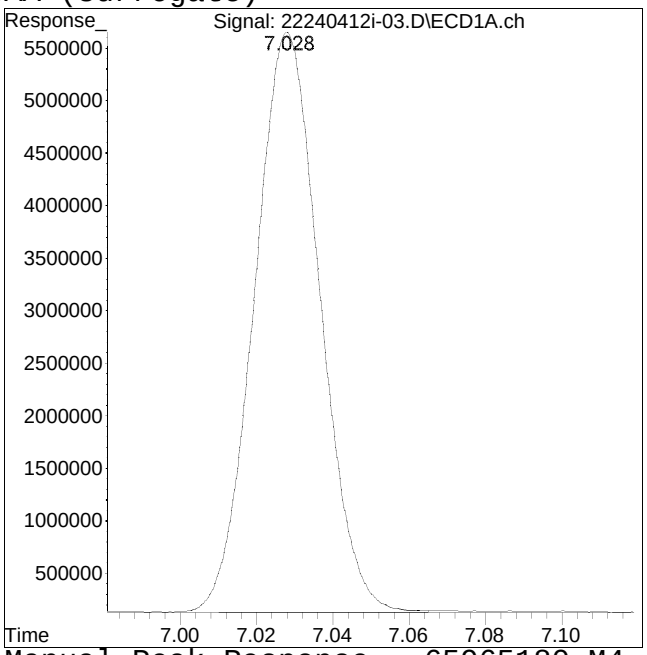
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #3: DCAA (surrogate)



Original Peak Response = 66169863

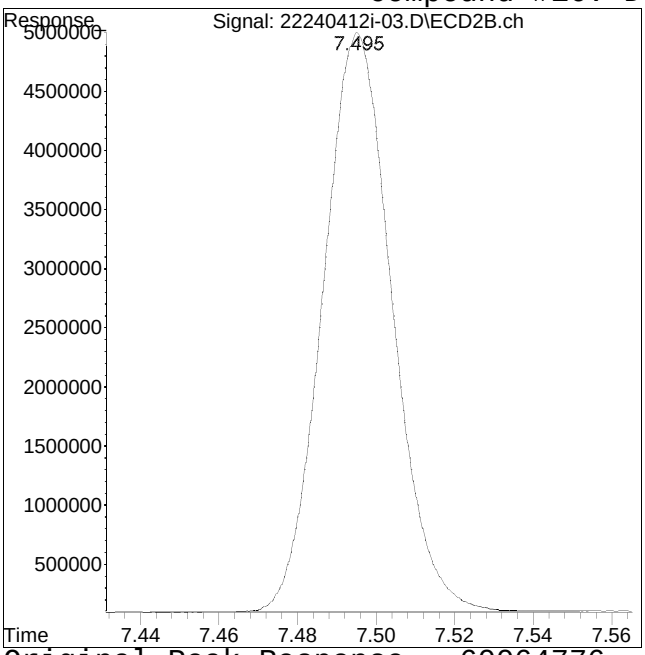


Manual Peak Response = 65965180 M4
M4 = Poor automated baseline construction.

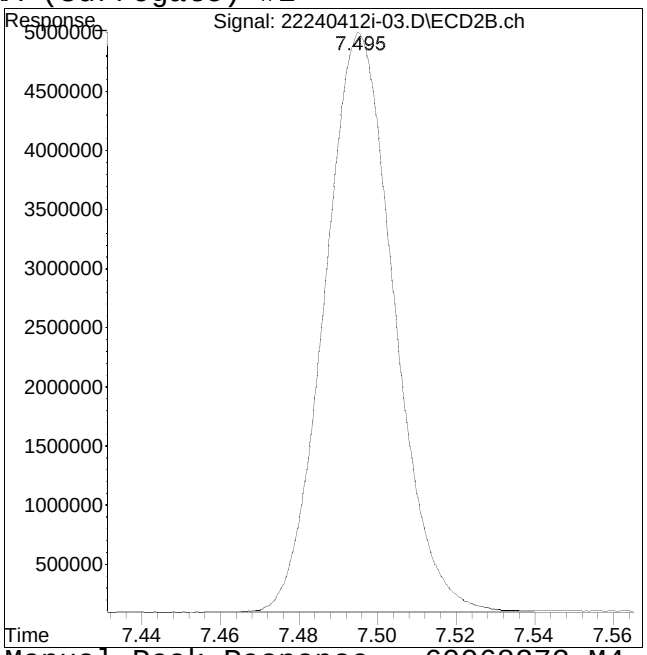
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 60064776



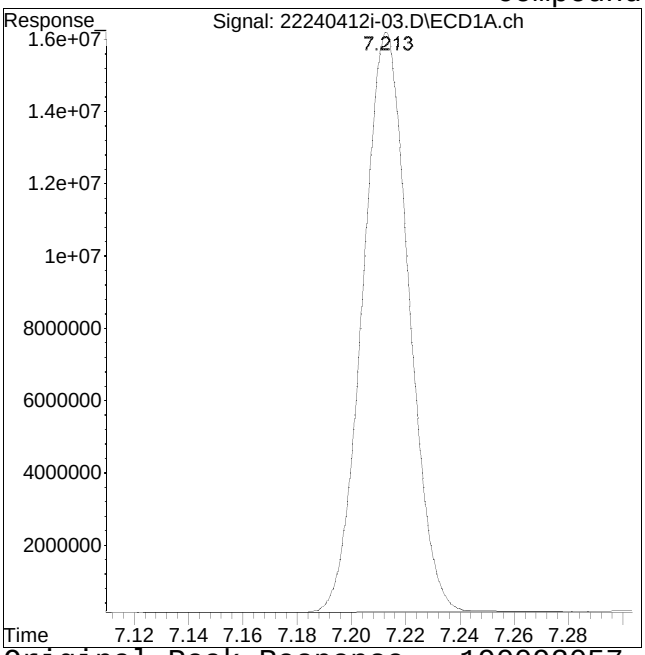
Manual Peak Response = 60068272 M4

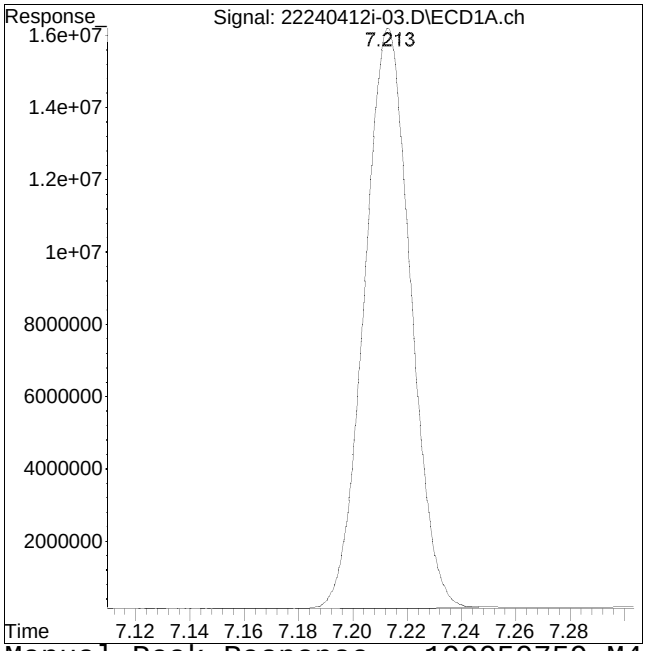
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #4: Dicamba



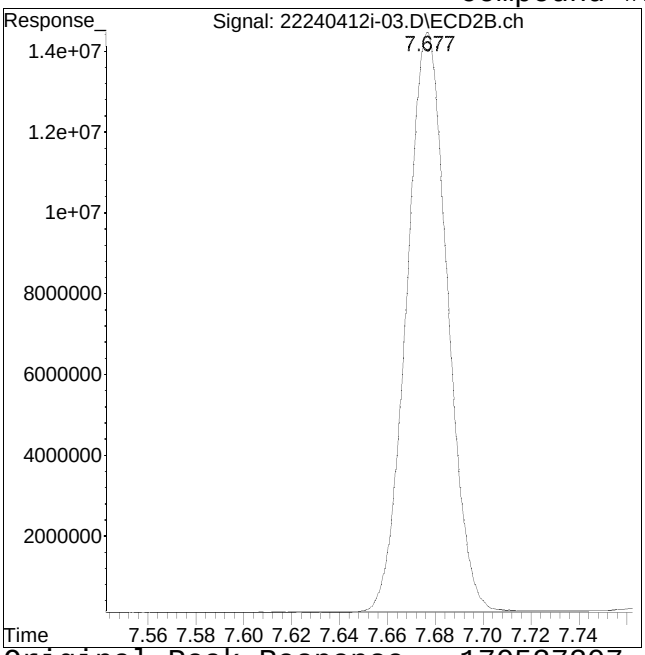


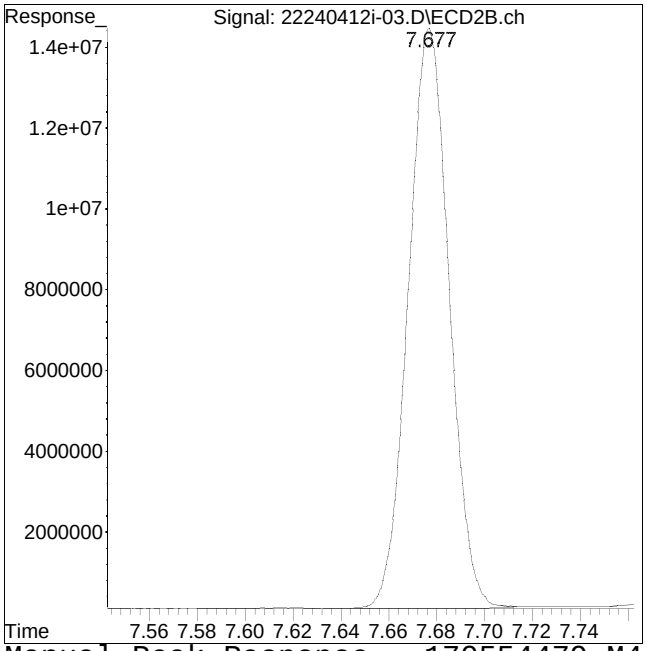
Original Peak Response = 190092057 Manual Peak Response = 190050759 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #17: Dicamba #2



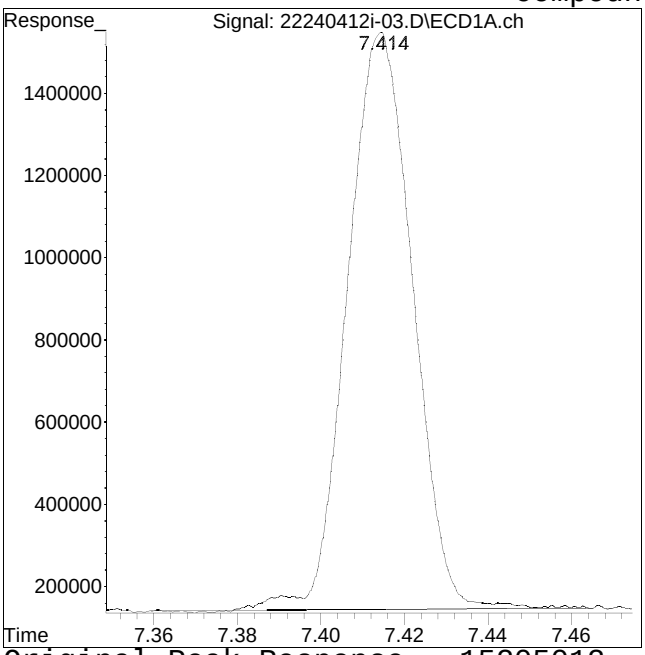


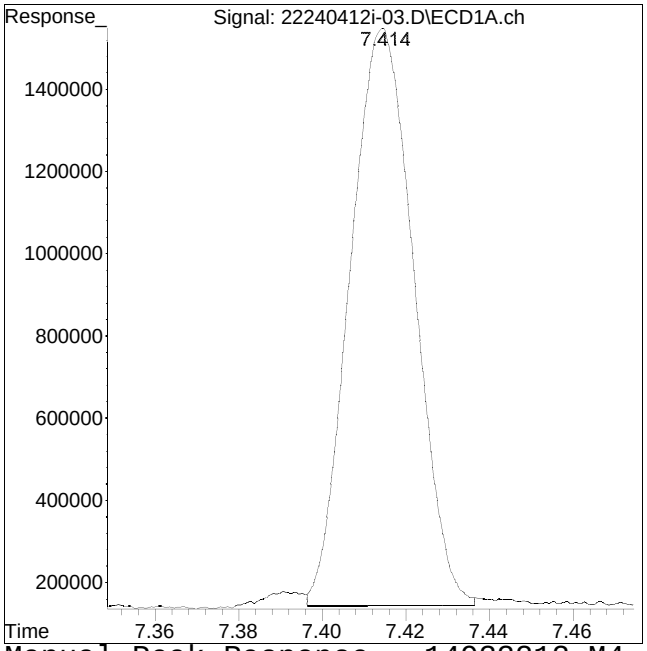
Original Peak Response = 170537307 Manual Peak Response = 170554479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #5: MCPP



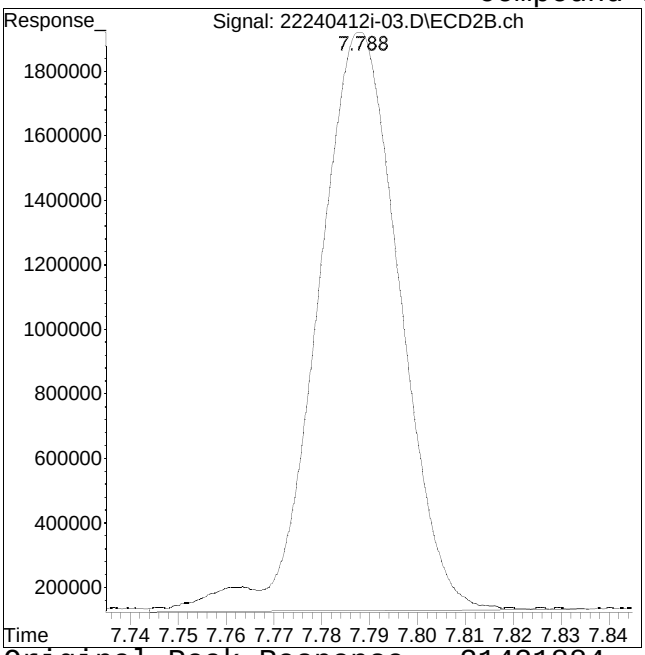


Original Peak Response = 15205012 Manual Peak Response = 14933212 M4
M4 = Poor automated baseline construction.

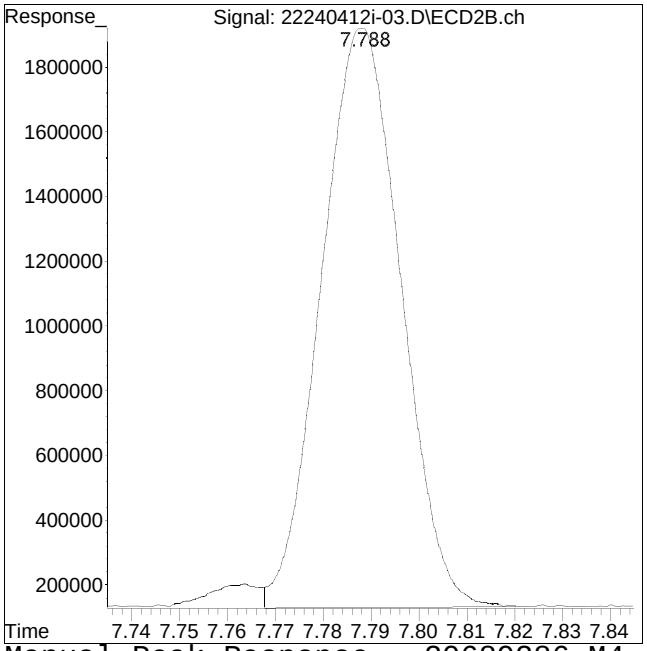
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #18: MCPP #2



Original Peak Response = 21421884



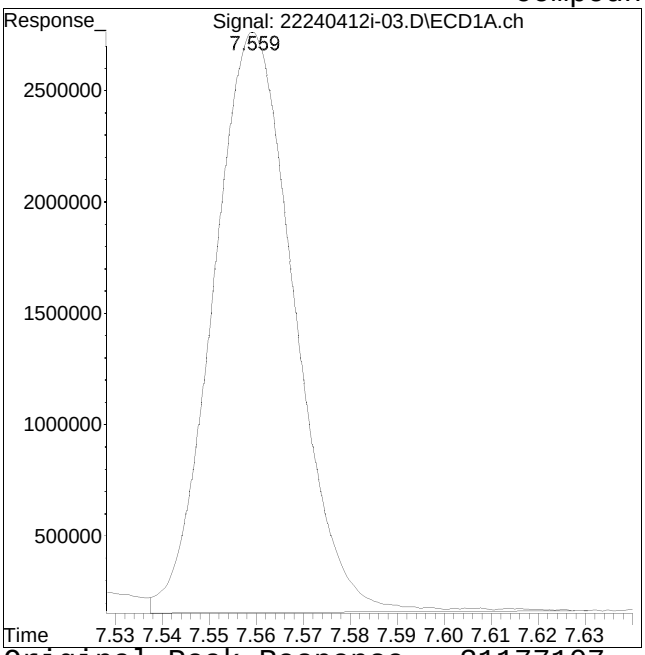
Manual Peak Response = 20689286 M4

M4 = Poor automated baseline construction.

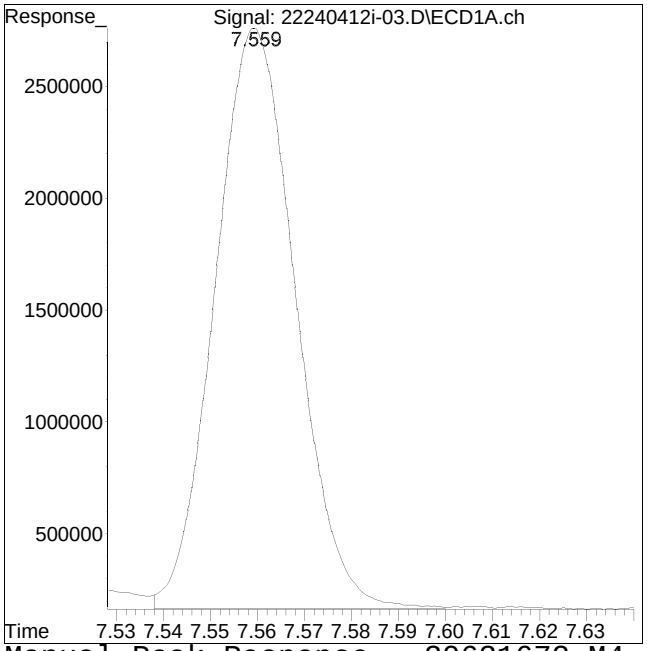
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #6: MCPA



Original Peak Response = 31177107



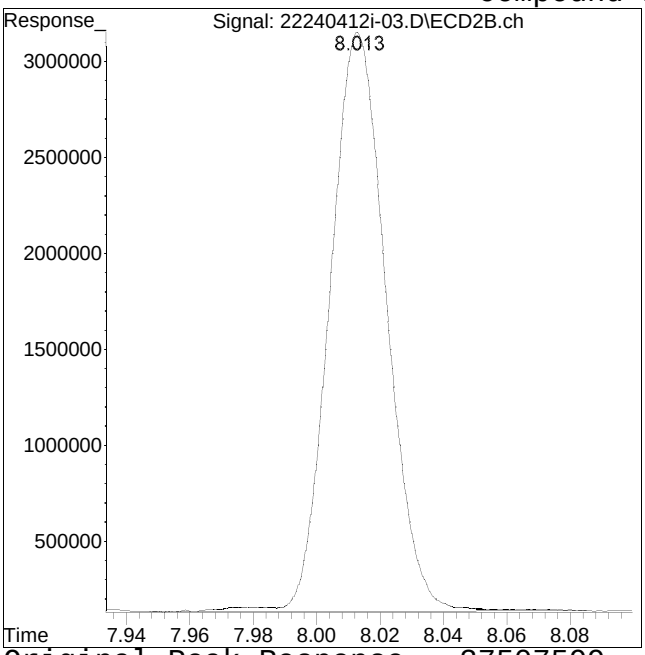
Manual Peak Response = 30631672 M4

M4 = Poor automated baseline construction.

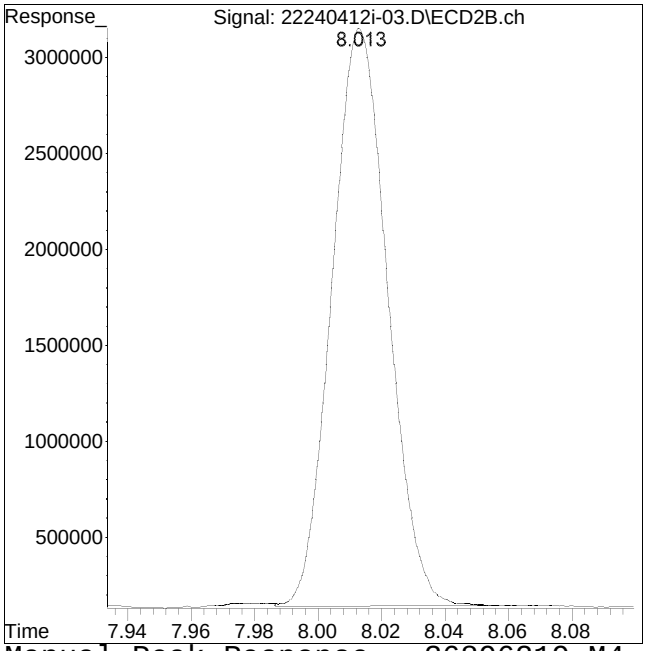
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #19: MCPA #2



Original Peak Response = 37507599



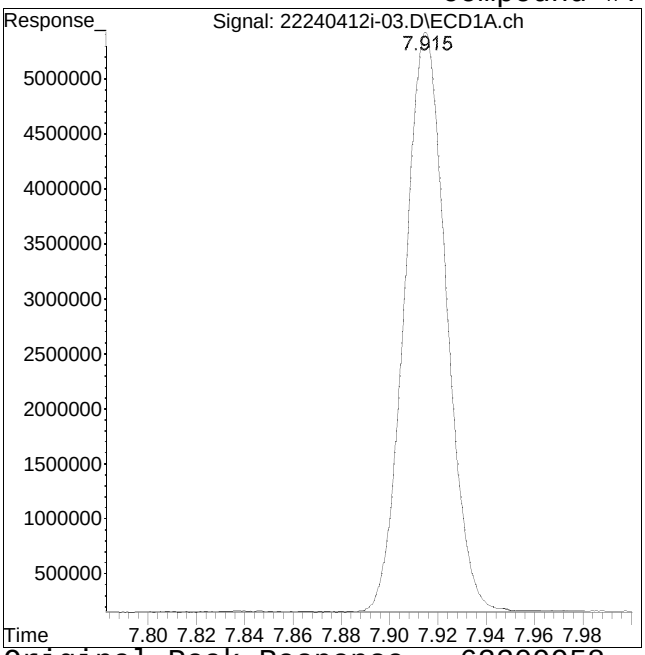
Manual Peak Response = 36896219 M4

M4 = Poor automated baseline construction.

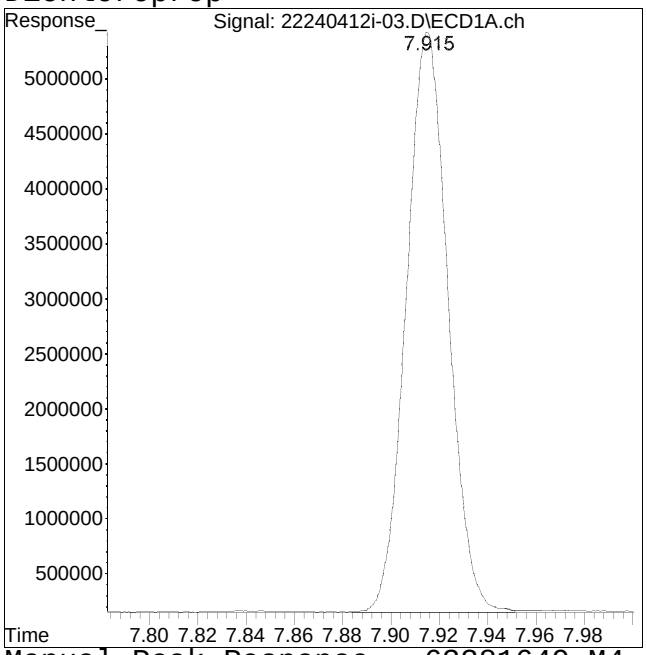
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #7: Dichloroprop



Original Peak Response = 63309958



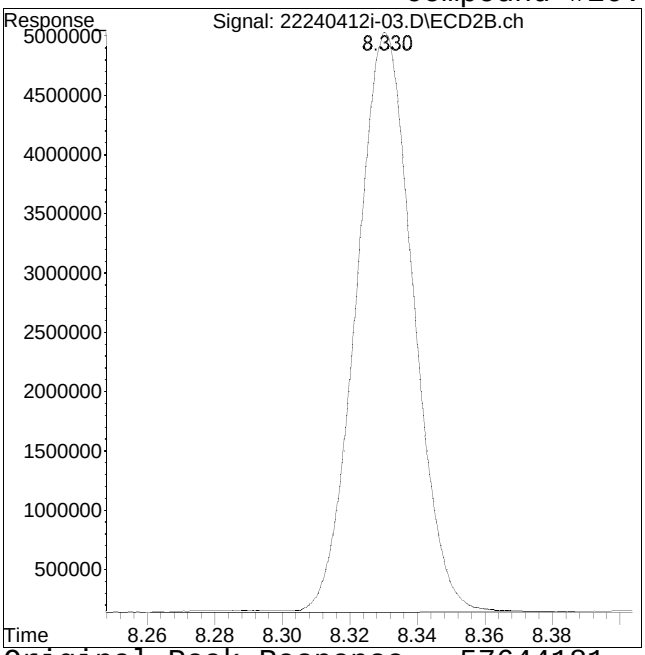
Manual Peak Response = 63381649 M4

M4 = Poor automated baseline construction.

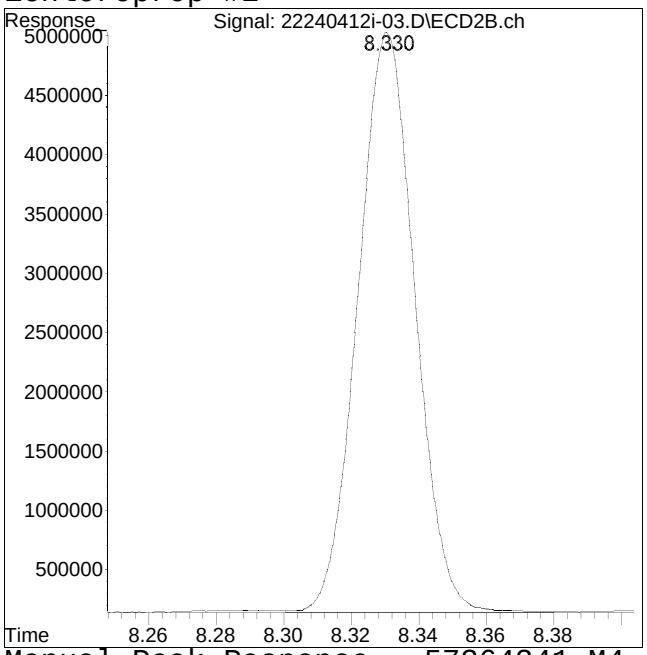
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #20: Dichloroprop #2



Original Peak Response = 57644181



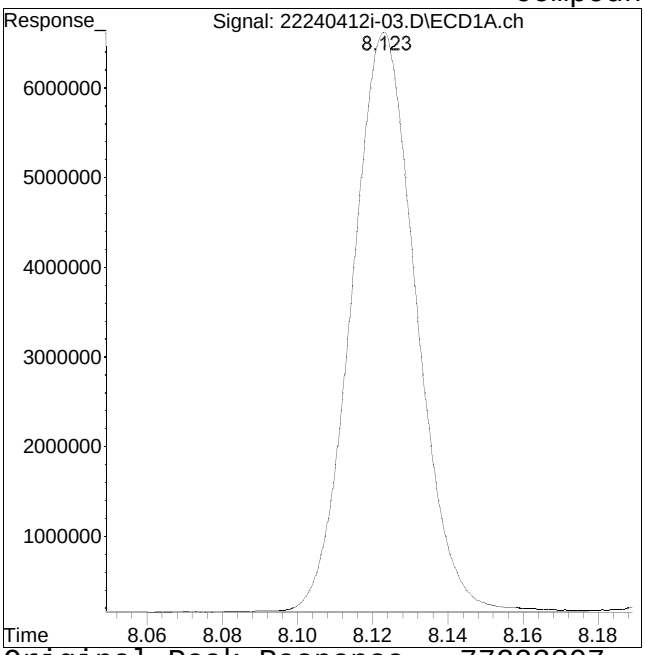
Manual Peak Response = 57364341 M4

M4 = Poor automated baseline construction.

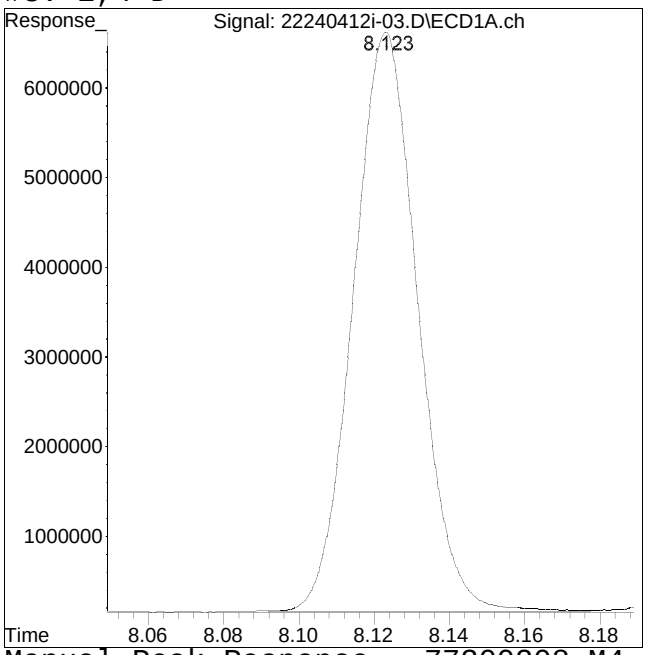
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #8: 2,4-D



Original Peak Response = 77223397



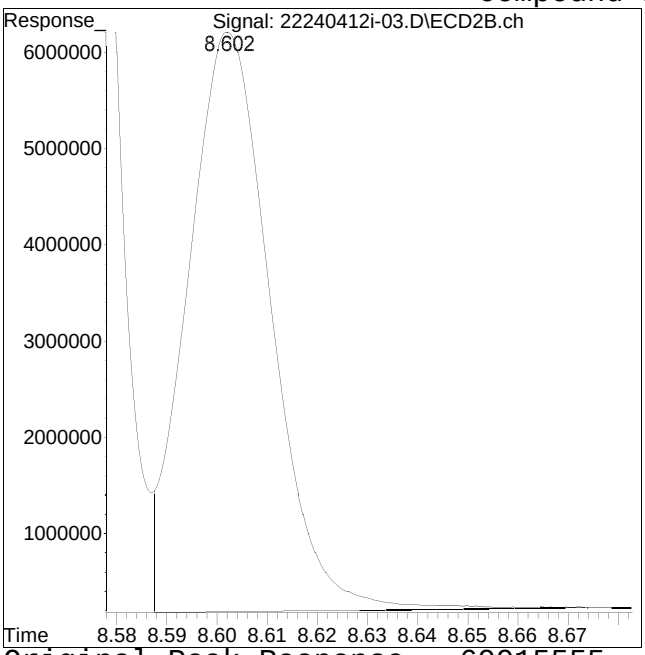
Manual Peak Response = 77300208 M4

M4 = Poor automated baseline construction.

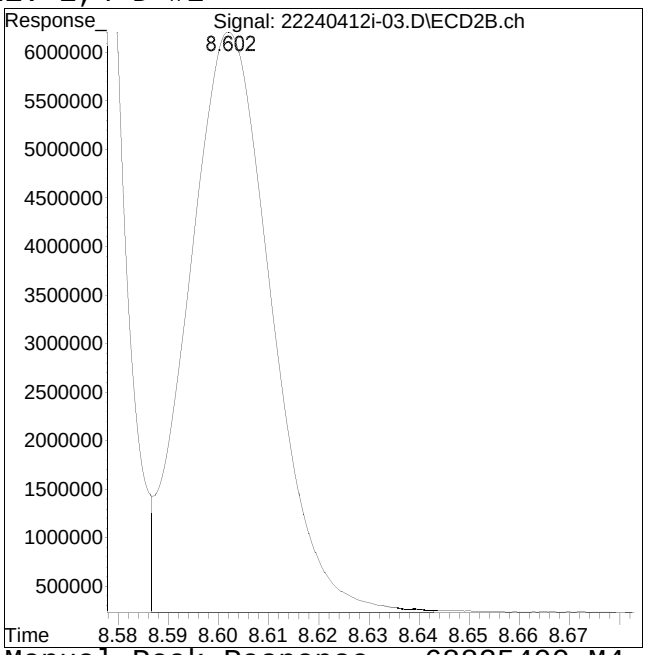
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #21: 2,4-D #2



Original Peak Response = 69915555



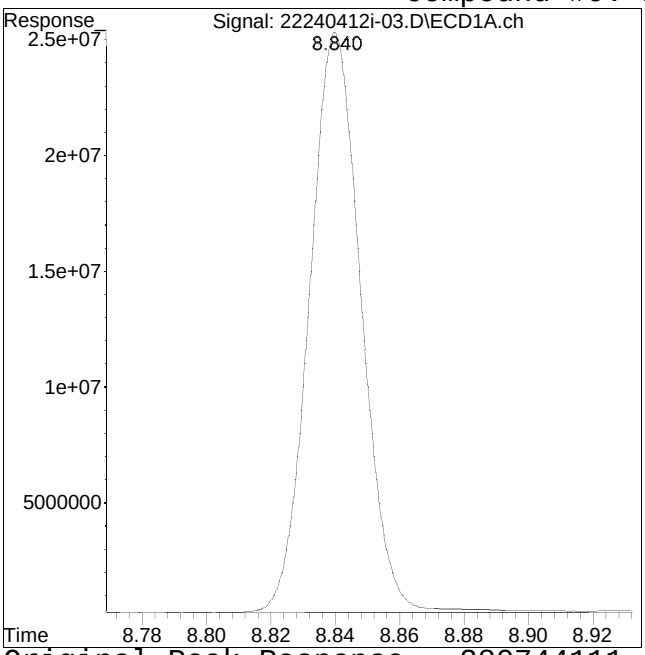
Manual Peak Response = 68835400 M4

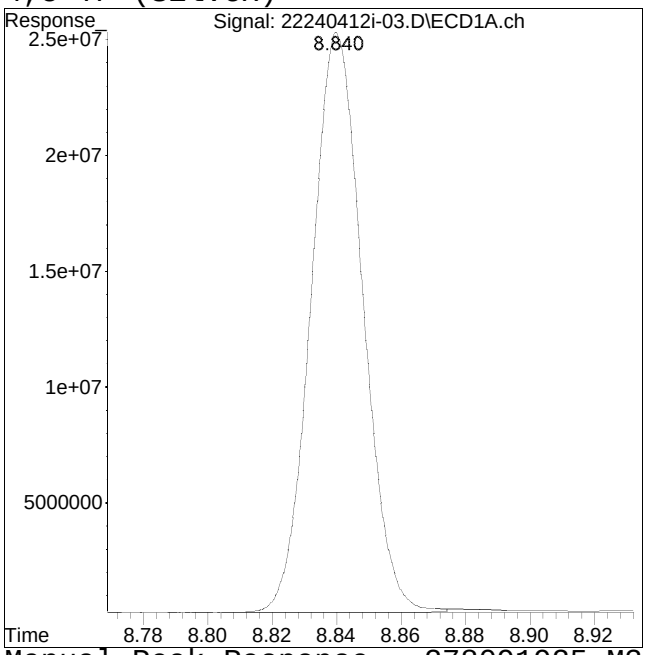
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #9: 2,4,5-TP (Silvex)



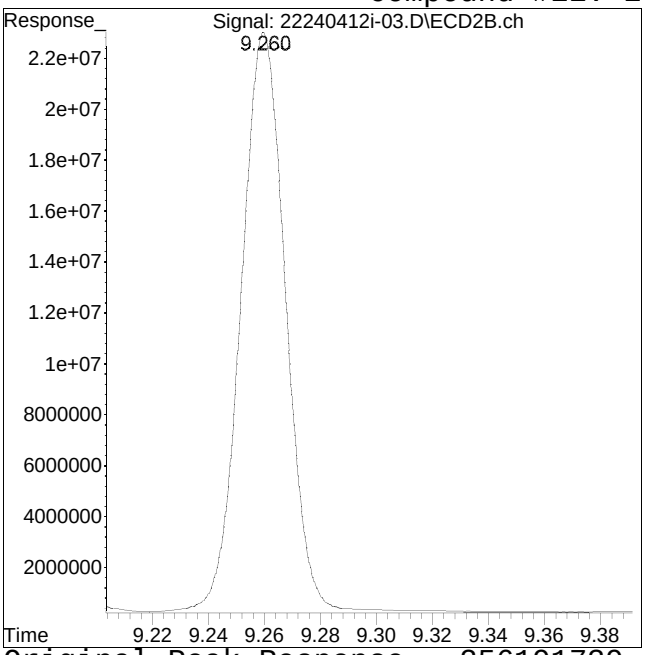


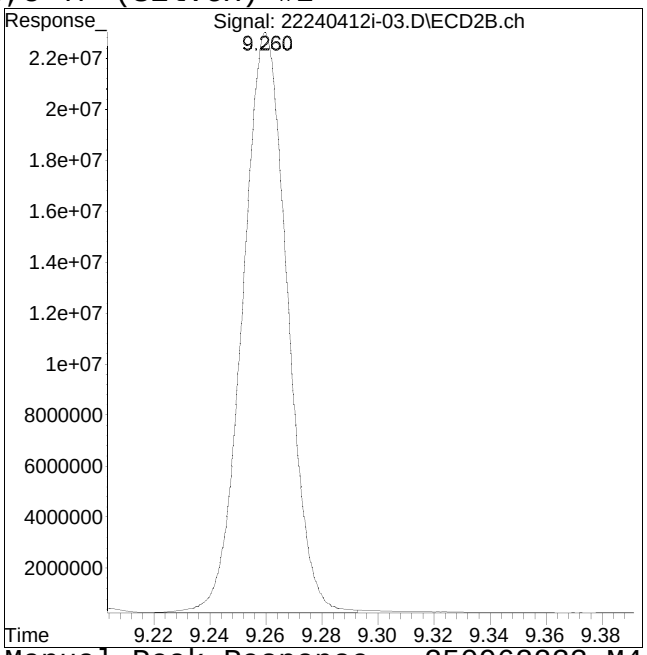
Original Peak Response = 280744111 Manual Peak Response = 278091925 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #22: 2,4,5-TP (Silvex) #2



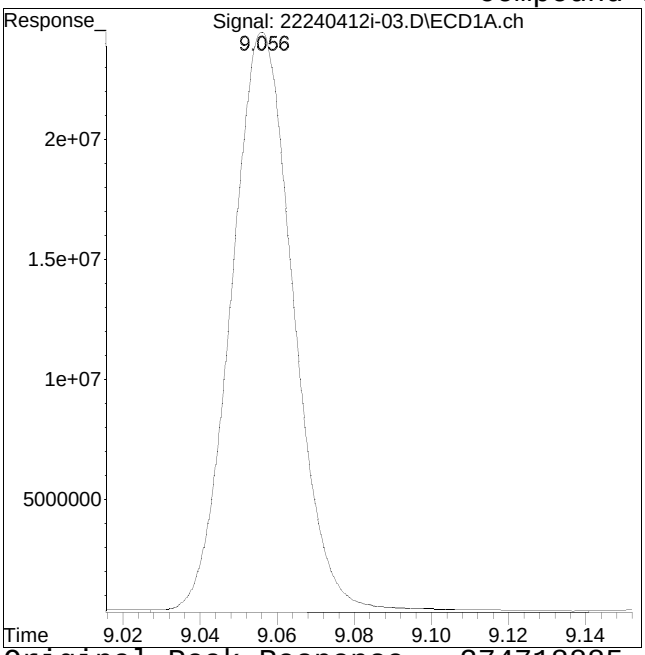


Original Peak Response = 256191739 Manual Peak Response = 250962233 M4
M4 = Poor automated baseline construction.

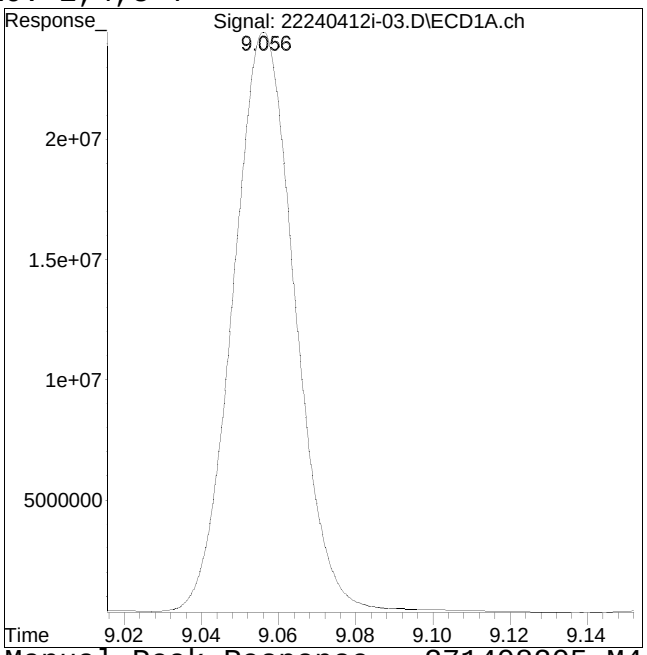
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #10: 2,4,5-T



Original Peak Response = 274718885



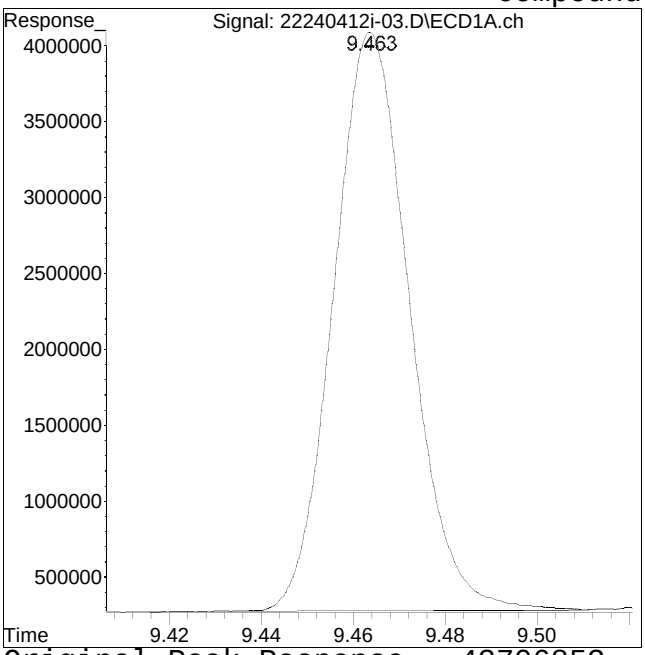
Manual Peak Response = 271408205 M4

M4 = Poor automated baseline construction.

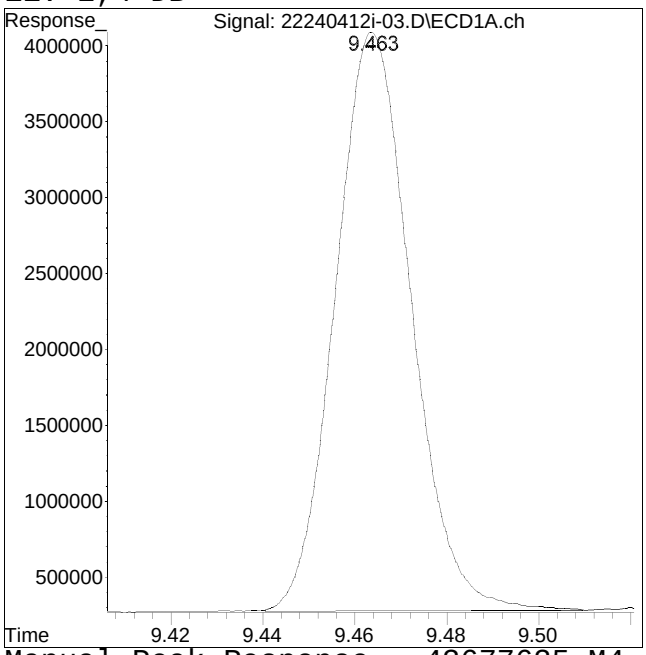
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #11: 2,4-DB



Original Peak Response = 43706853



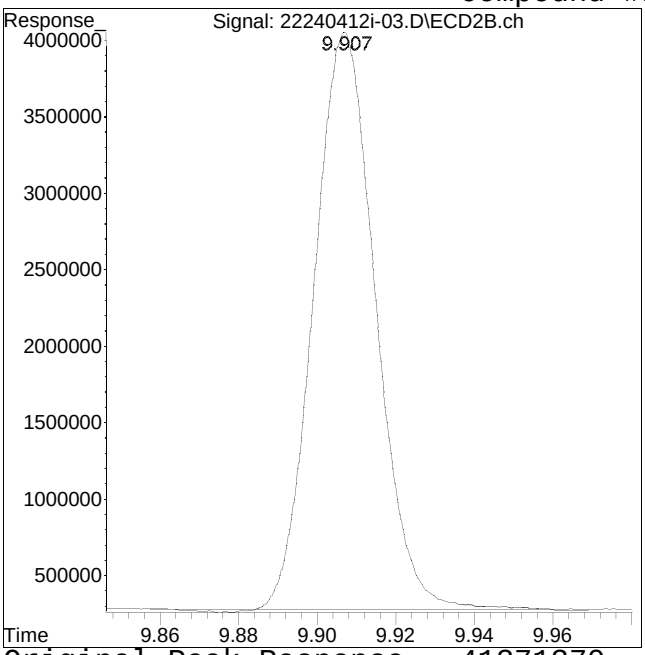
Manual Peak Response = 43677635 M4

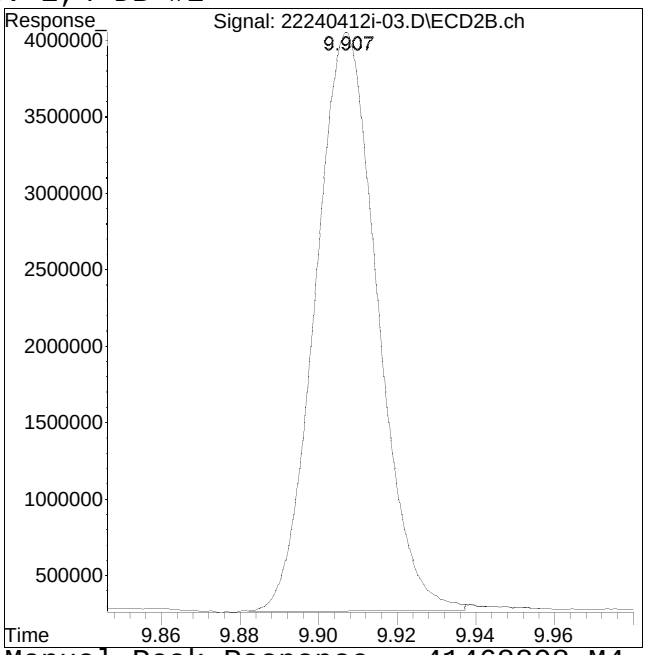
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #24: 2,4-DB #2



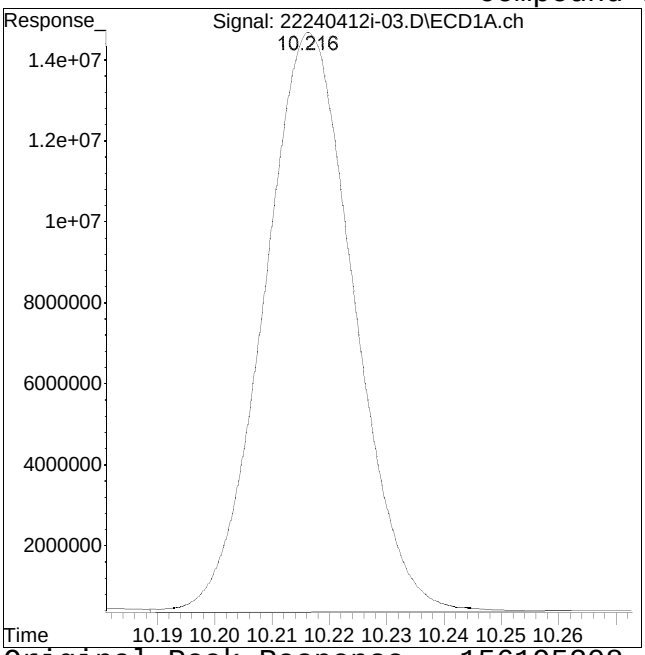


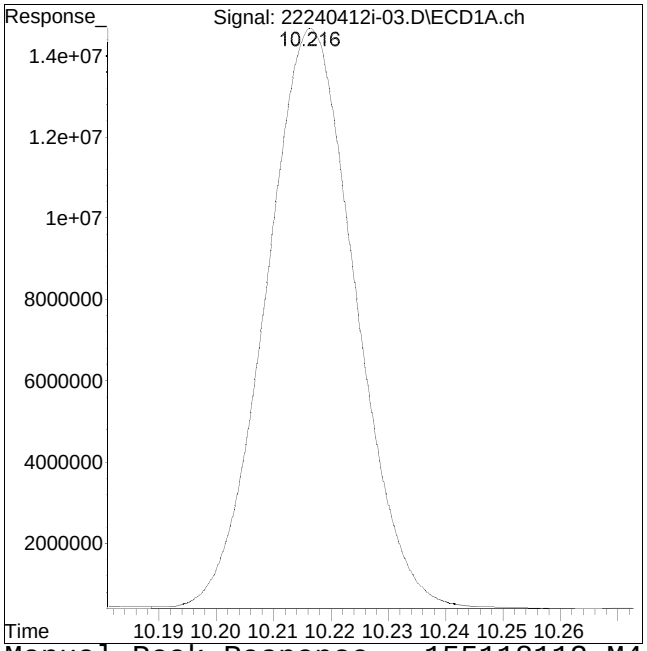
Original Peak Response = 41371370 Manual Peak Response = 41468808 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #12: Dinoseb





Original Peak Response = 156195208 Manual Peak Response = 155118112 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	756.3E6	703.2E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	123.2E6	111.1E6	NoCal	NoCal M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
2)	t	Dalapon	2.422	2.419	119.9E6	102.9E6	NoCal	NoCal M3
4)	t	Dicamba	7.212	7.677	355.2E6	323.0E6	NoCal M4	NoCal M4
5)	t	MCPP	7.413	7.787	31114458	39358453	NoCal M4	NoCal M3
6)	t	MCPA	7.559	8.013	57229158	66517204	NoCal	NoCal M4
7)	t	Dichloroprop	7.914	8.330	117.1E6	105.4E6	NoCal M4	NoCal M4
8)	t	2,4-D	8.123	8.602	144.4E6	127.9E6	NoCal M4	NoCal M4
9)	t	2,4,5-TP (Si	8.840	9.260	531.6E6	472.3E6	NoCal M4	NoCal M4
10)	t	2,4,5-T	9.056	9.546	515.7E6	455.2E6	NoCal M4	NoCal
11)	t	2,4-DB	9.463	9.907	81317538	77337034	NoCal	NoCal
12)	t	Dinoseb	10.216	10.131	298.6E6	267.3E6	NoCal M4	NoCal
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

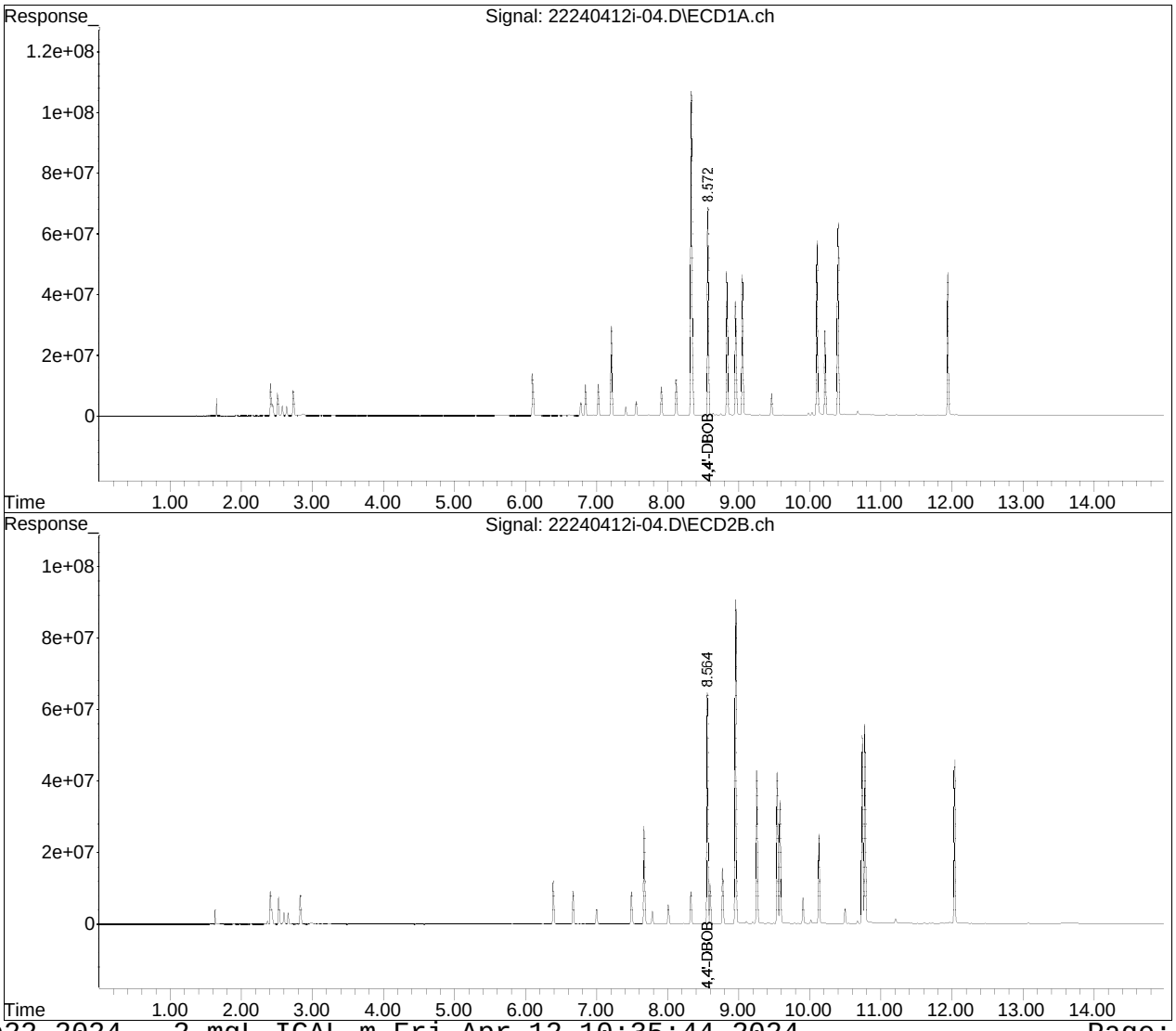
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

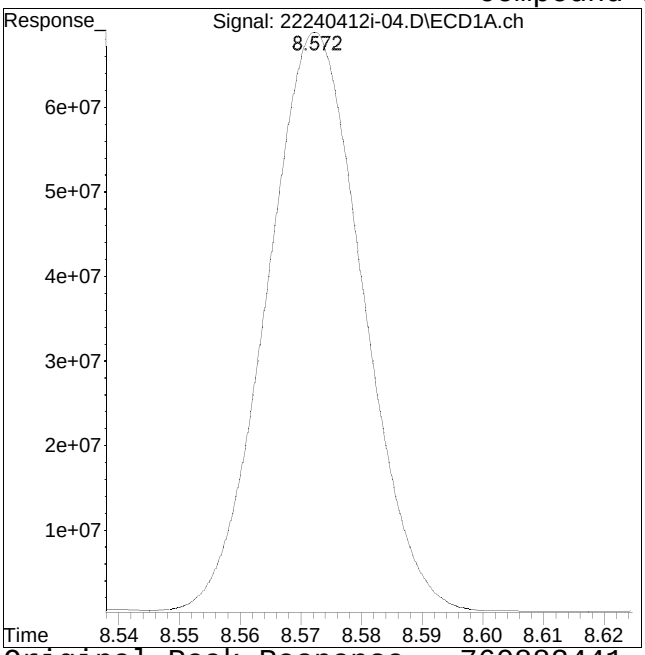
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

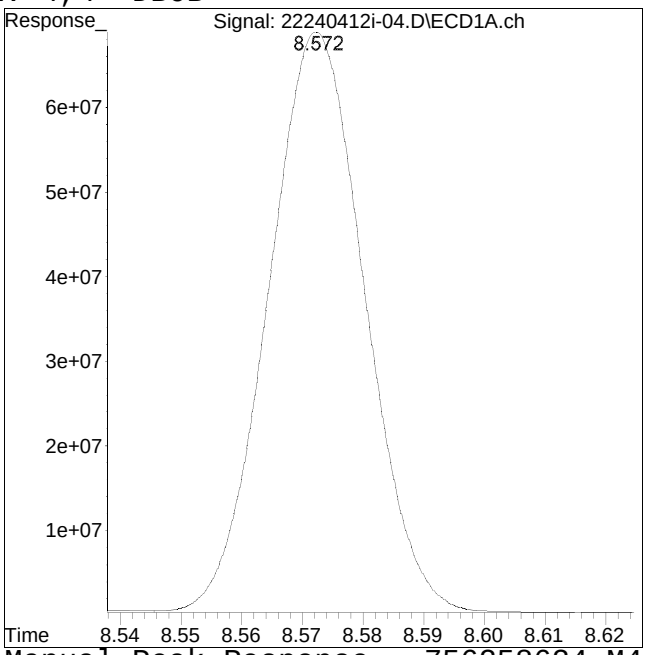


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #1: 4,4'-DBOB



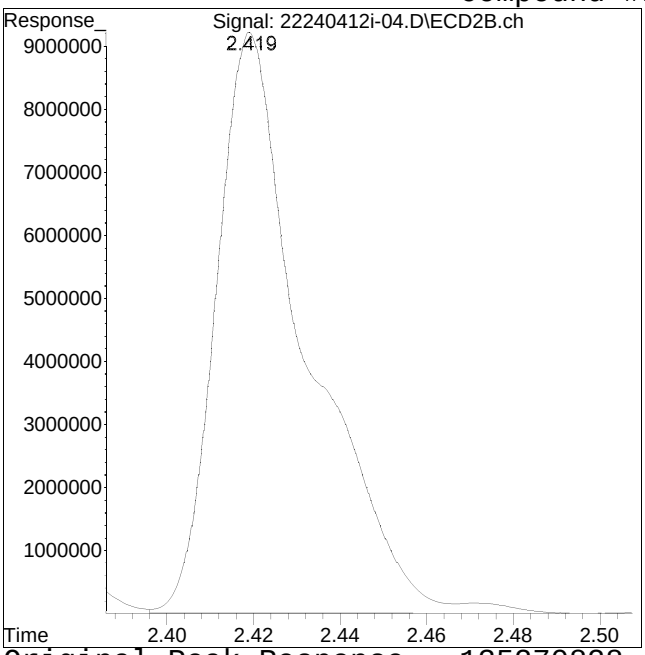


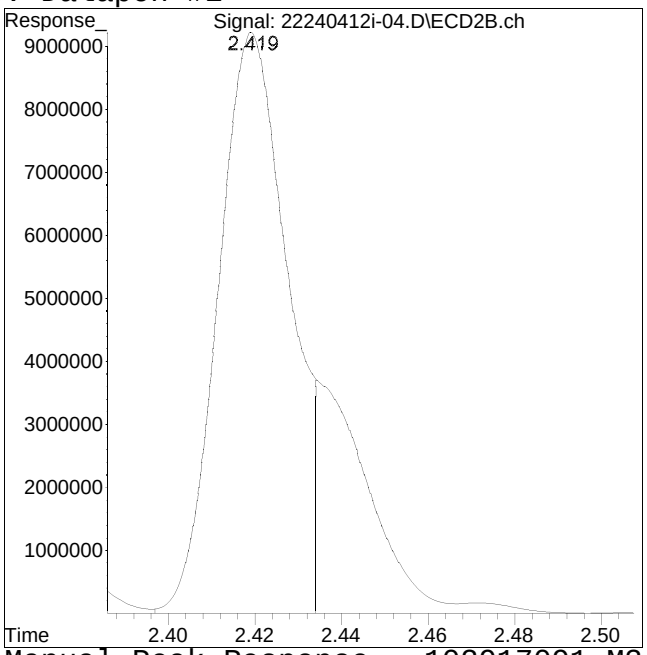
Original Peak Response = 760882441 Manual Peak Response = 756258624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #15: Dalapon #2



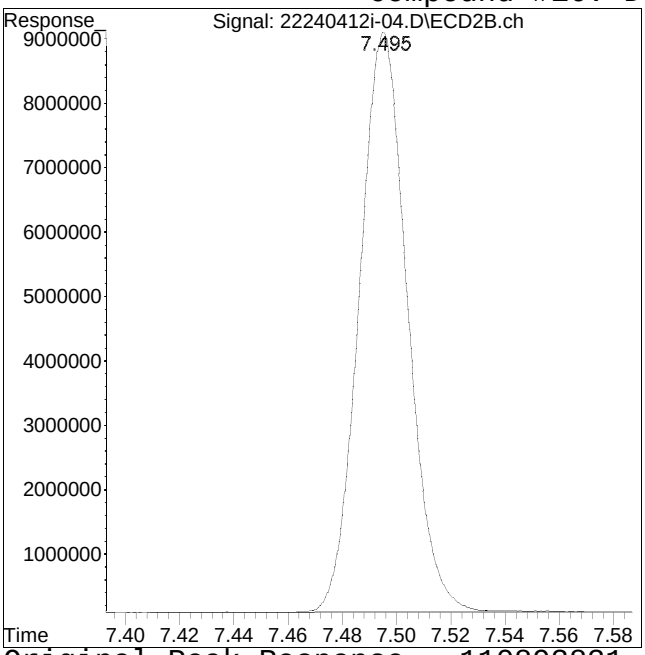


Original Peak Response = 135270828 Manual Peak Response = 102917091 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

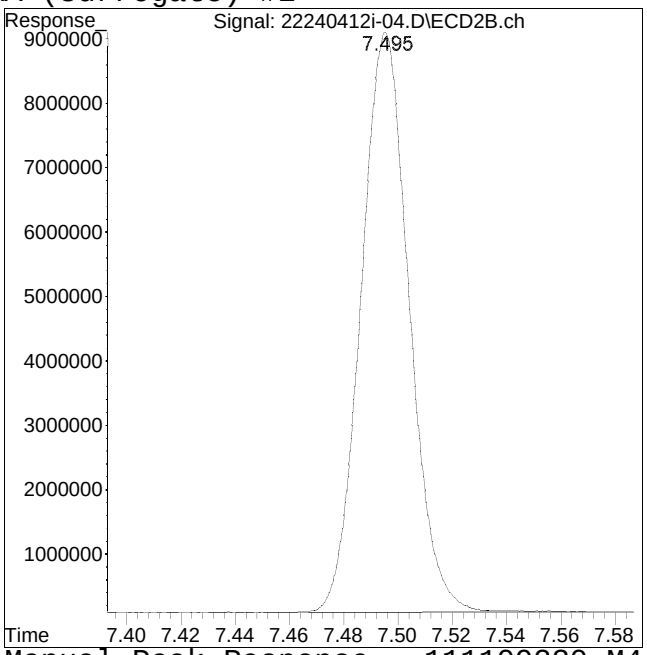
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 110893831

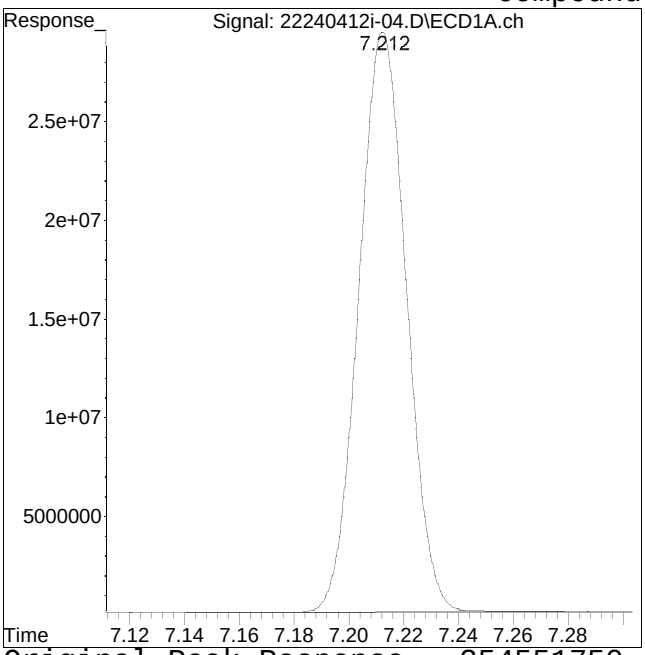


Manual Peak Response = 111109230 M4
M4 = Poor automated baseline construction.

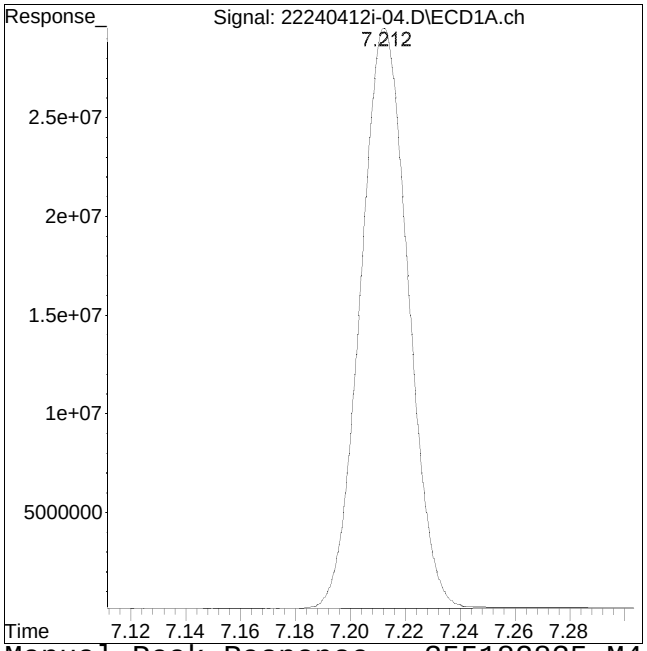
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #4: Dicamba



Original Peak Response = 354551750



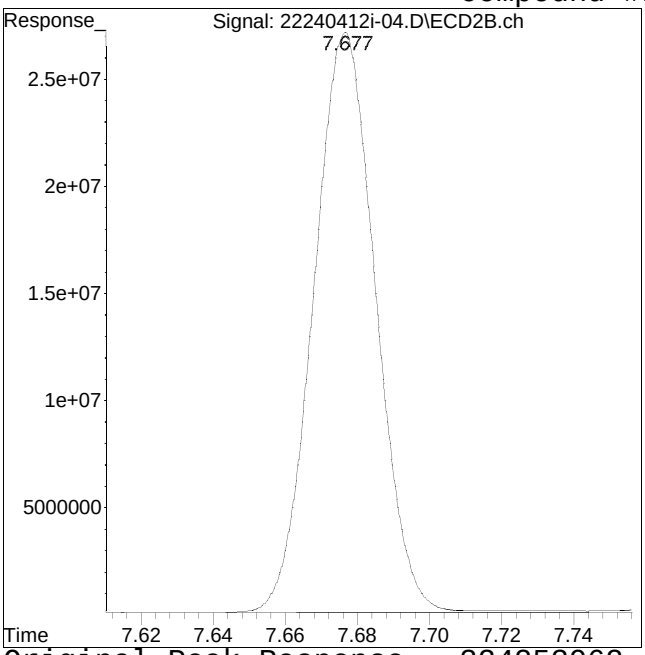
Manual Peak Response = 355182835 M4

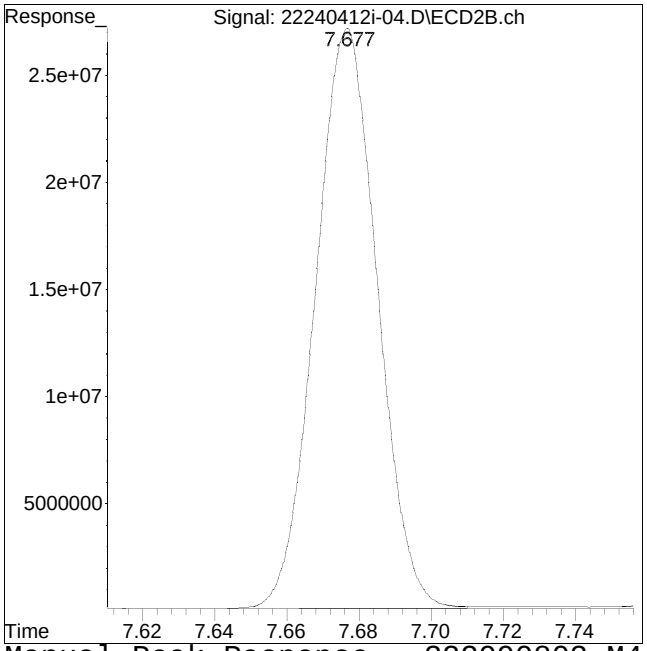
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #17: Dicamba #2



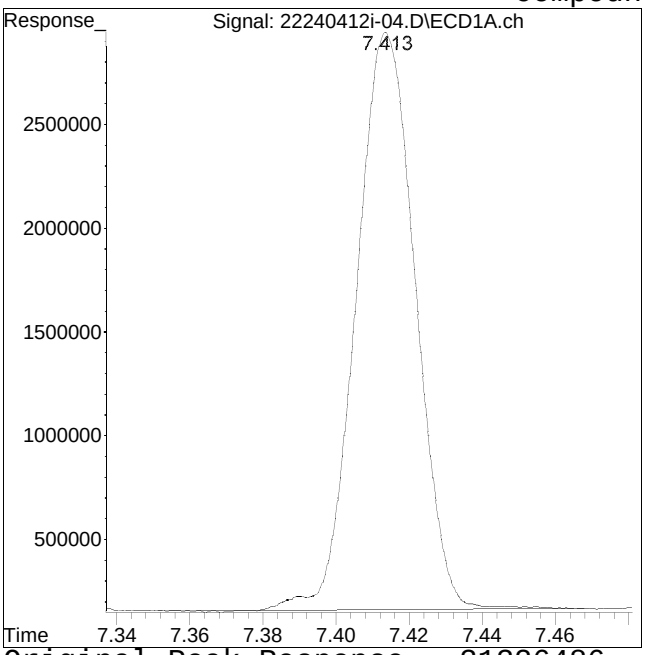


Original Peak Response = 324253962 Manual Peak Response = 322990803 M4
M4 = Poor automated baseline construction.

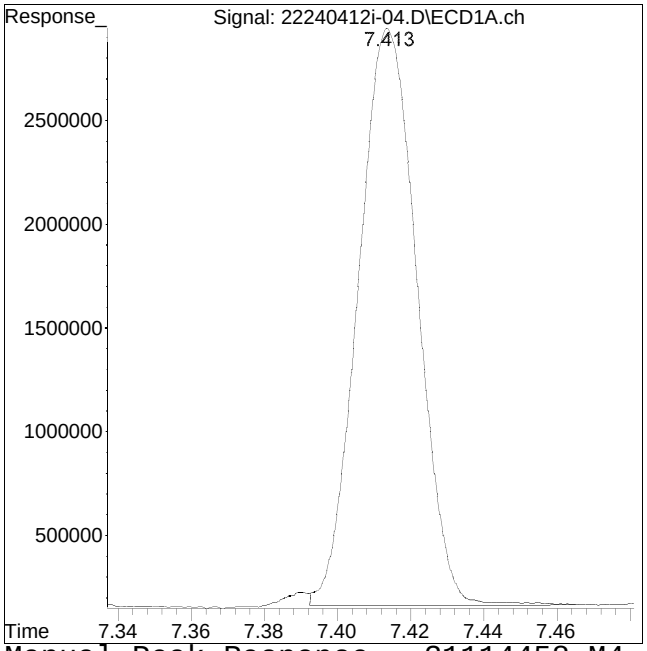
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #5: MCPP



Original Peak Response = 31326486



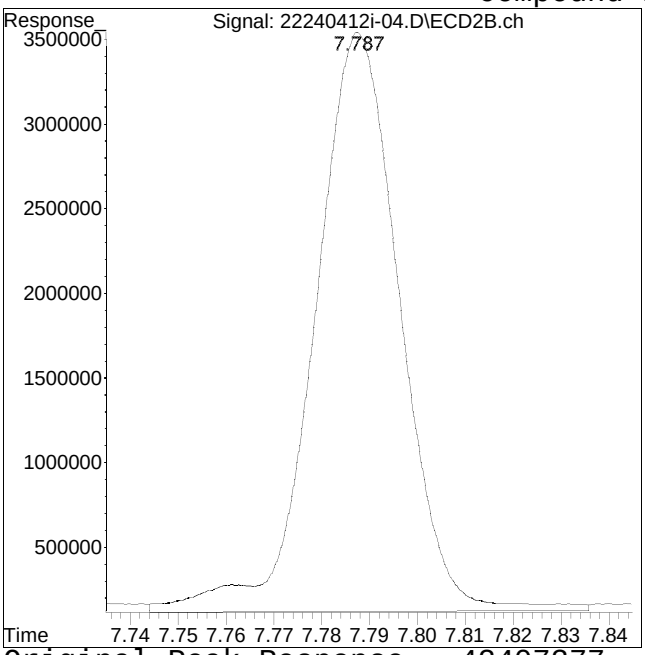
Manual Peak Response = 31114458 M4

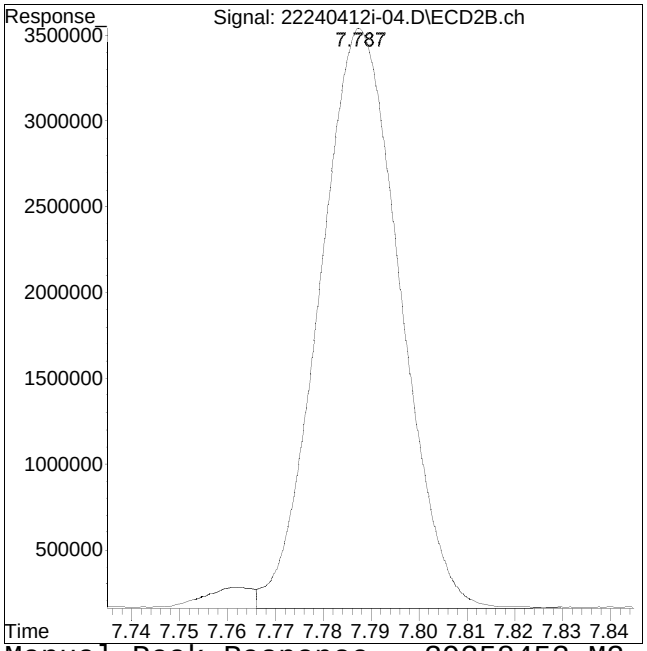
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #18: MCPP #2



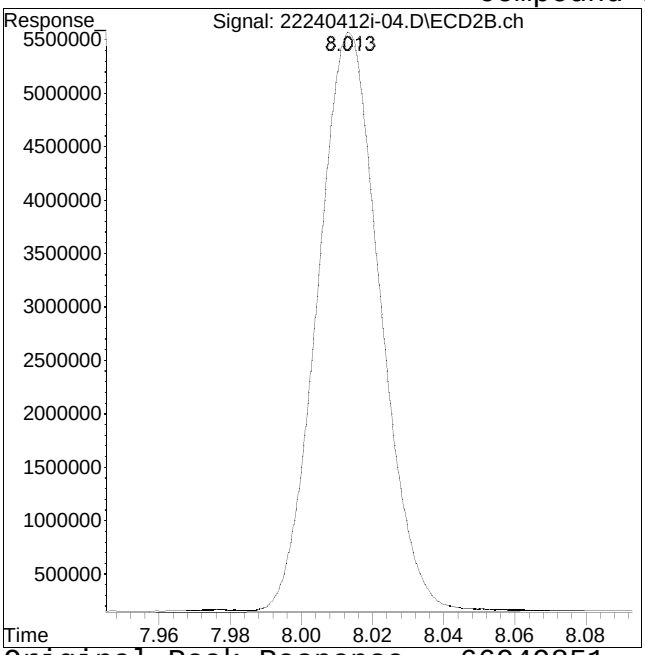


Original Peak Response = 42407377 Manual Peak Response = 39358453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

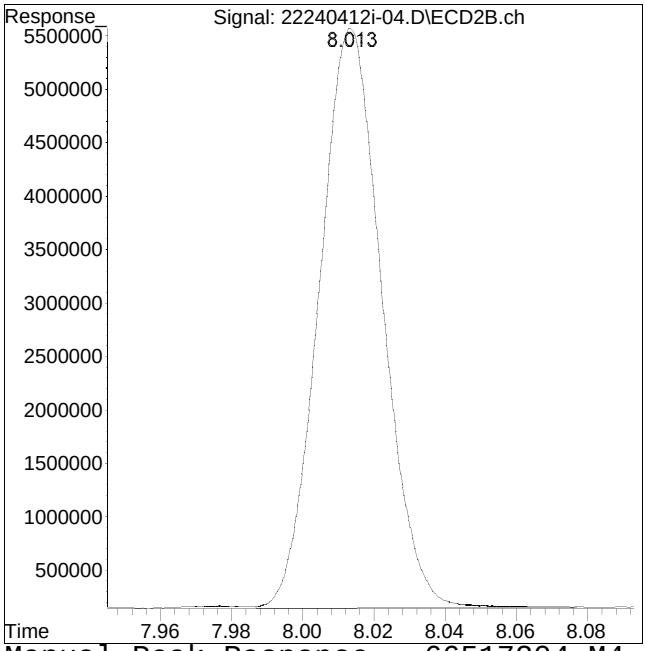
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #19: MCPA #2



Original Peak Response = 66949851

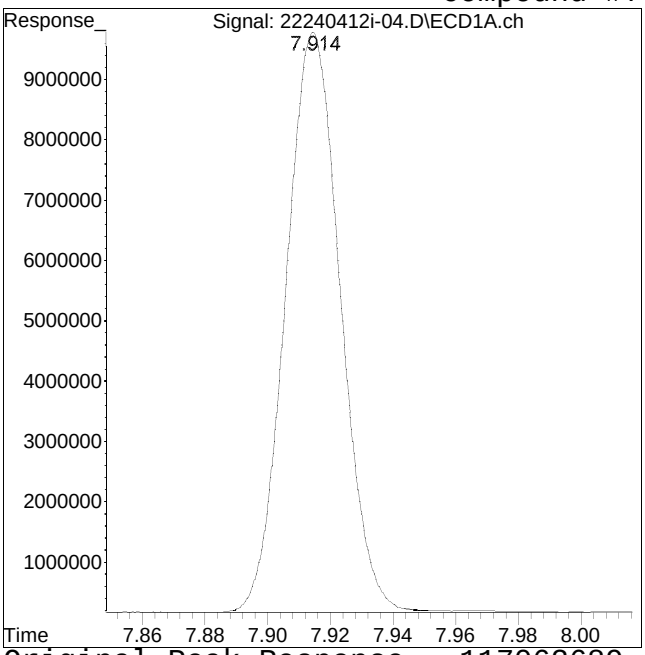


Manual Peak Response = 66517204 M4
M4 = Poor automated baseline construction.

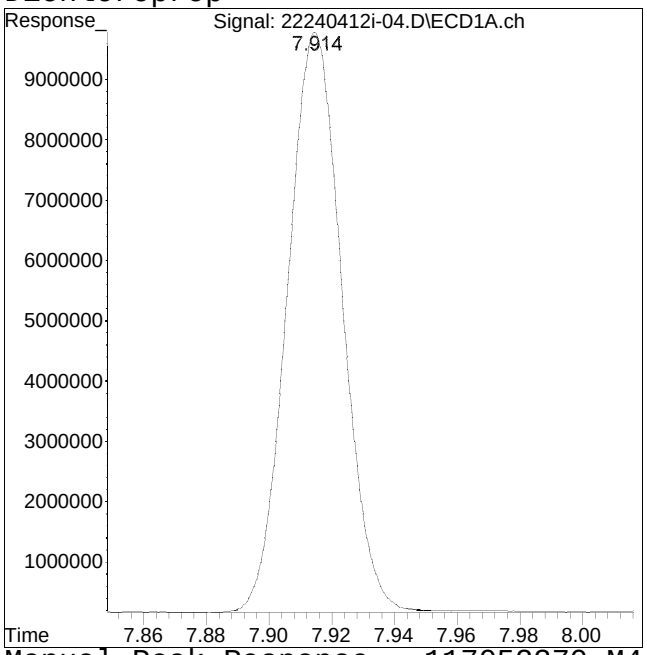
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #7: Dichloroprop



Original Peak Response = 117062689



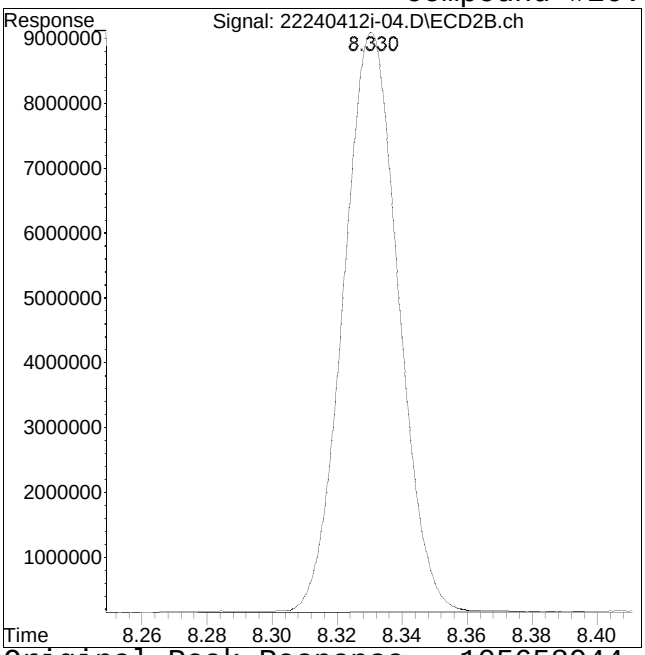
Manual Peak Response = 117052370 M4

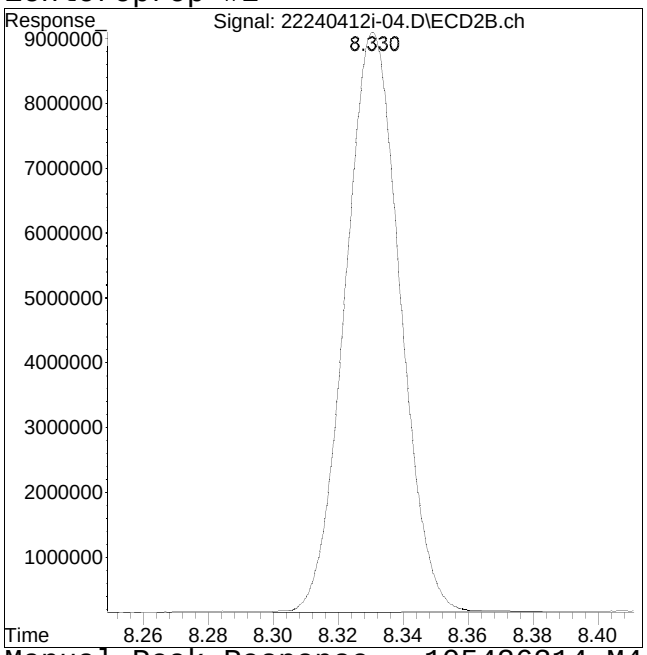
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #20: Dichloroprop #2



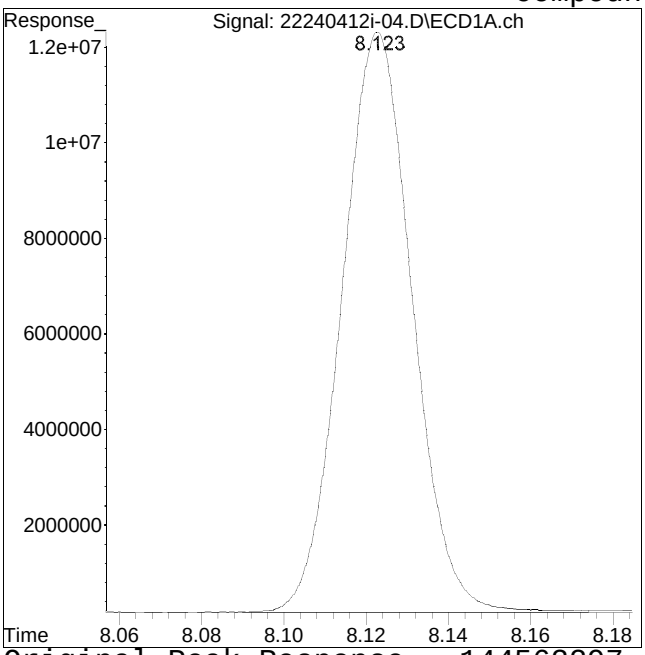


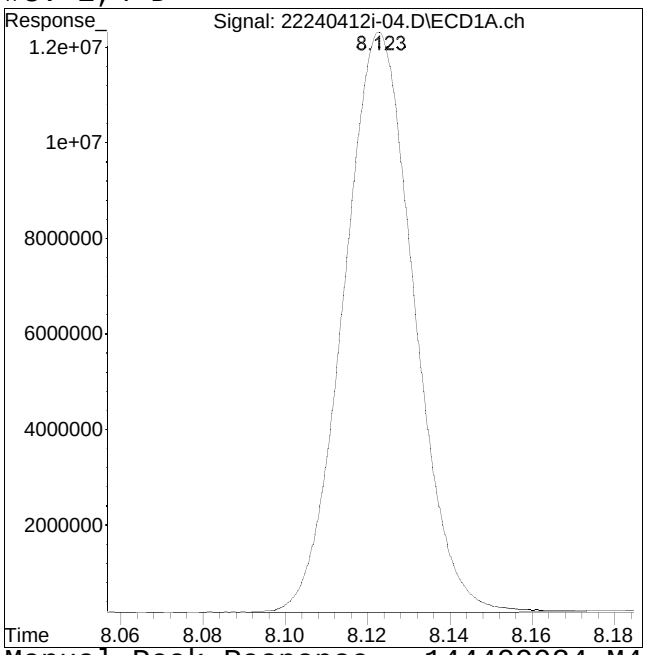
Original Peak Response = 105658944 Manual Peak Response = 105426314 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #8: 2,4-D



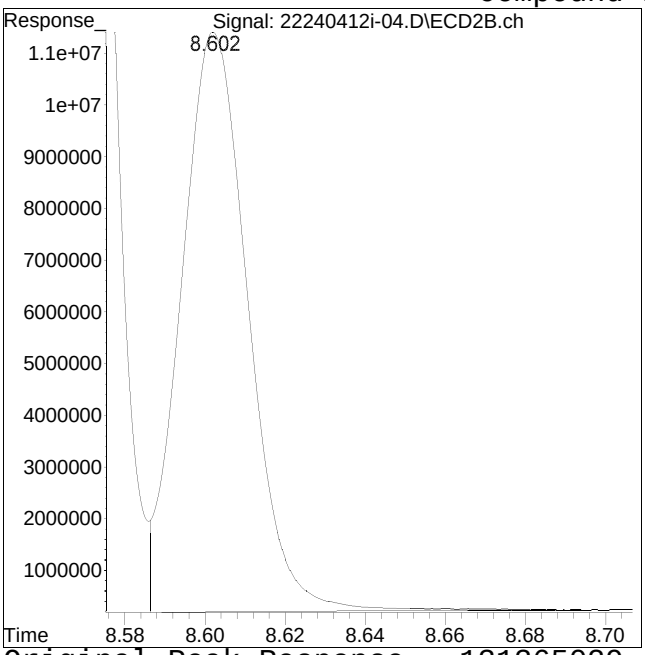


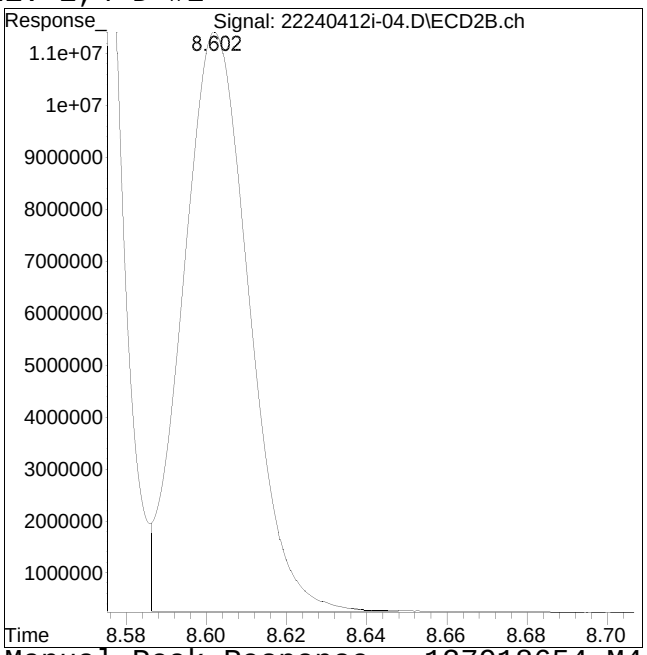
Original Peak Response = 144562297 Manual Peak Response = 144409924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #21: 2,4-D #2



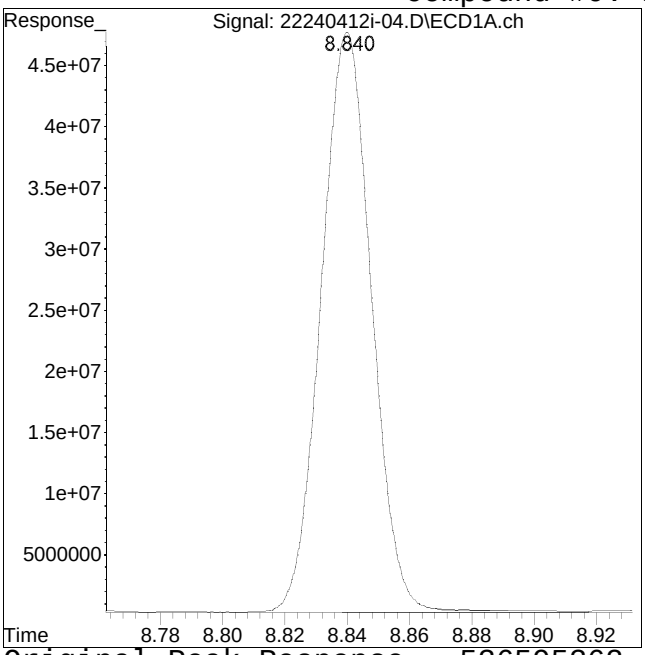


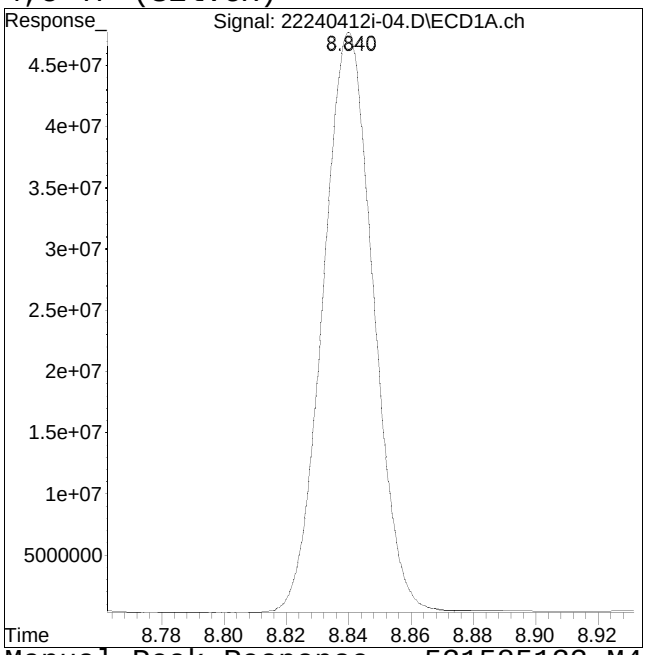
Original Peak Response = 131365029 Manual Peak Response = 127918654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #9: 2,4,5-TP (Silvex)



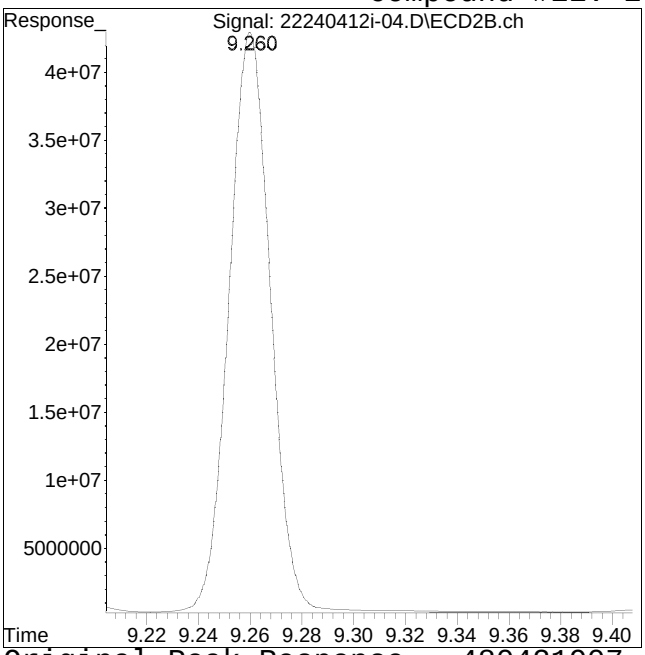


Original Peak Response = 536595362 Manual Peak Response = 531585133 M4
M4 = Poor automated baseline construction.

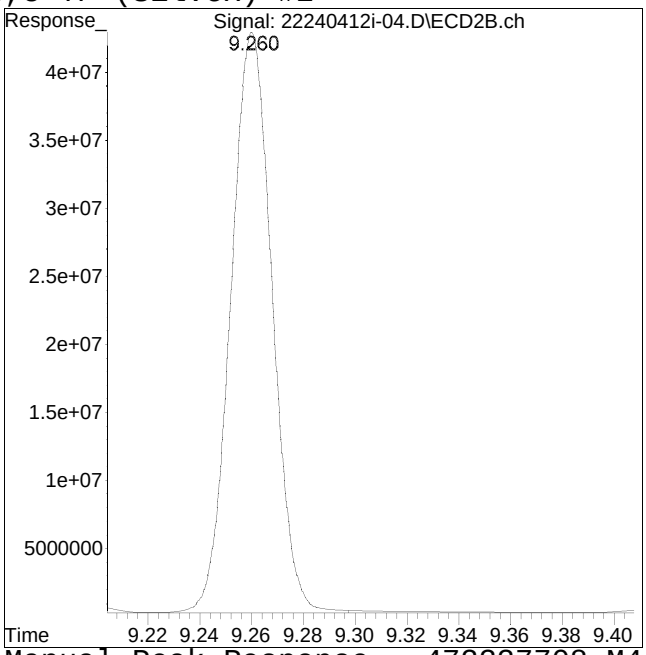
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 480421907



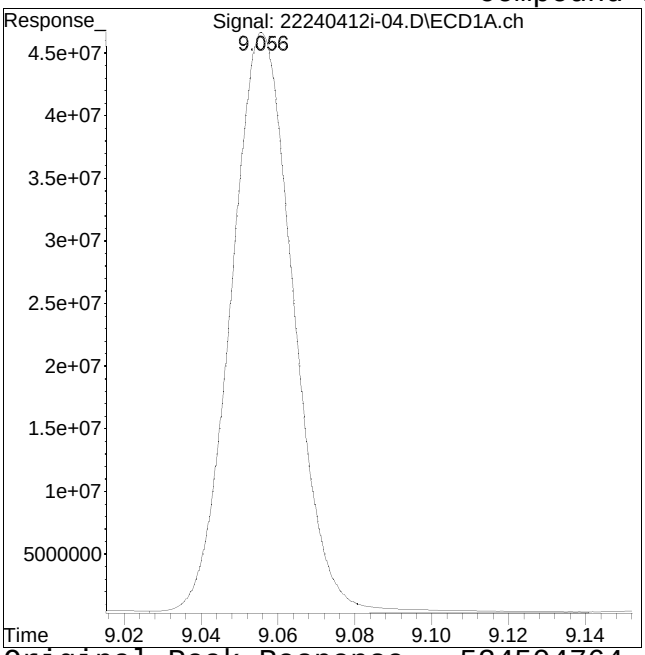
Manual Peak Response = 472337708 M4

M4 = Poor automated baseline construction.

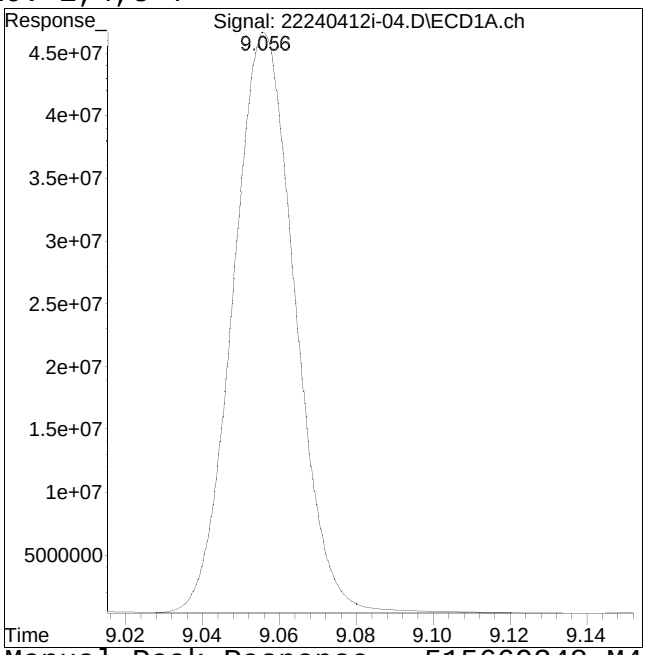
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #10: 2,4,5-T



Original Peak Response = 524504764



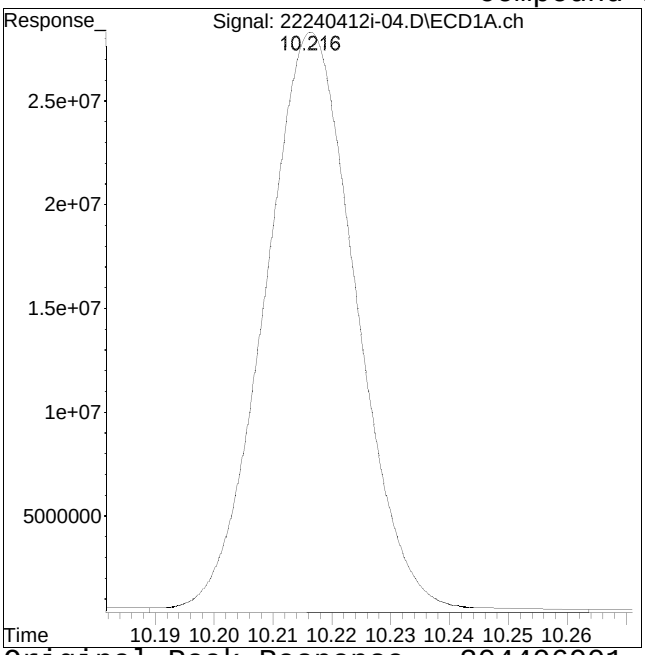
Manual Peak Response = 515669348 M4

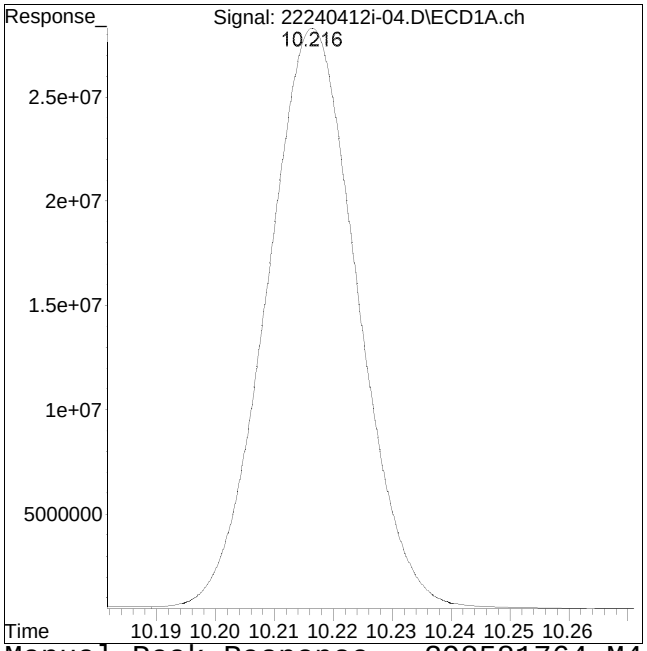
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #12: Dinoseb





Original Peak Response = 304406901 Manual Peak Response = 298581764 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	728.9E6	672.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	269.9E6	239.5E6	0.427M4	0.424M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	85.40%	84.80%
		Target Compounds						
2)	t	Dalapon	2.421	2.418	271.5E6	257.3E6	0.428M3	0.476M4
4)	t	Dicamba	7.213	7.677	765.6E6	720.1E6	0.420	0.439
5)	t	MCPP	7.415	7.788	73199826	88785274	45.887M4	44.375M4
6)	t	MCPA	7.560	8.013	121.5E6	140.2E6	40.968M4	41.021M4
7)	t	Dichloroprop	7.915	8.331	249.3E6	225.9E6	0.415M4	0.422M4
8)	t	2,4-D	8.123	8.602	315.8E6	282.1E6	0.427	0.434M4
9)	t	2,4,5-TP (Si	8.840	9.260	1166.2E6	1040.4E6	0.432M3	0.438M4
10)	t	2,4,5-T	9.056	9.546	1153.0E6	1012.2E6	0.441M4	0.442
11)	t	2,4-DB	9.463	9.907	173.1E6	171.9E6	0.424M4	0.447
12)	t	Dinoseb	10.216	10.130	670.6E6	603.6E6	0.443M4	0.449M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

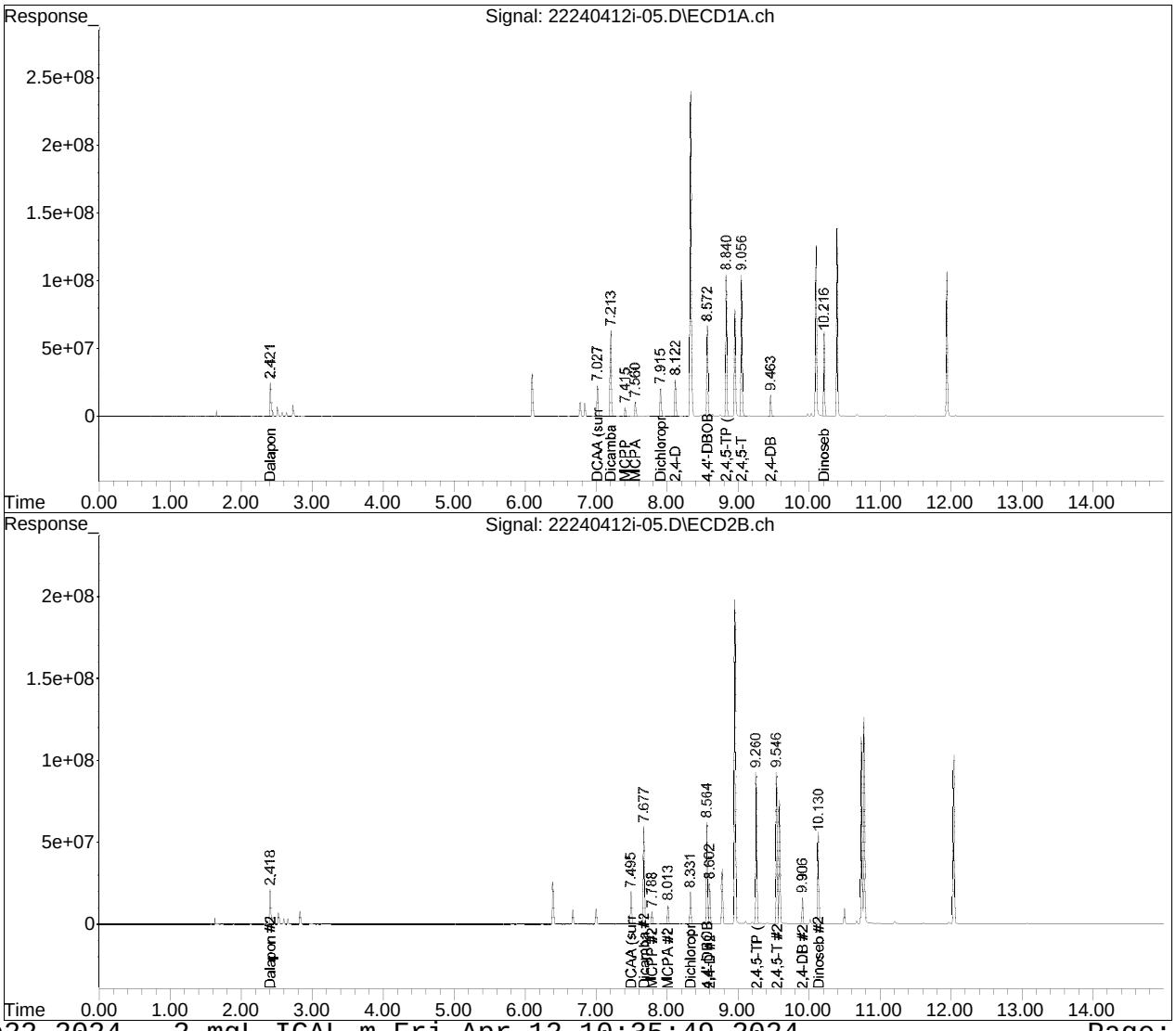
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

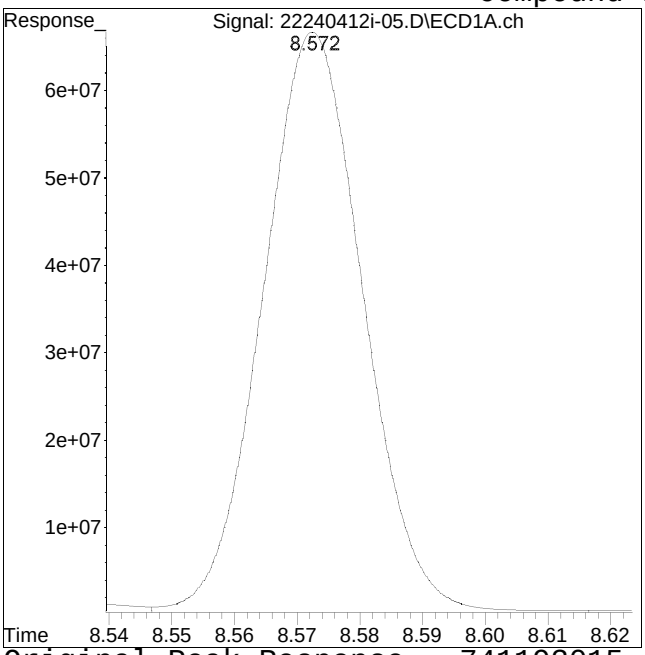
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

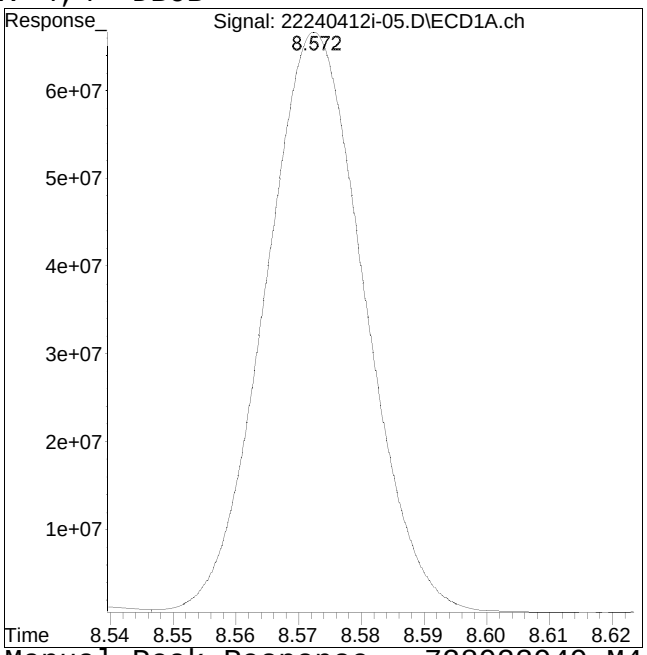


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #1: 4,4'-DBOB



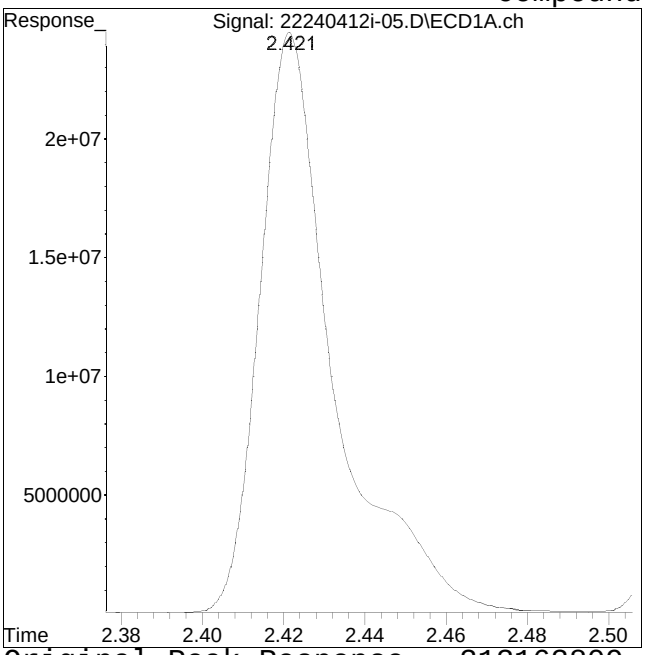


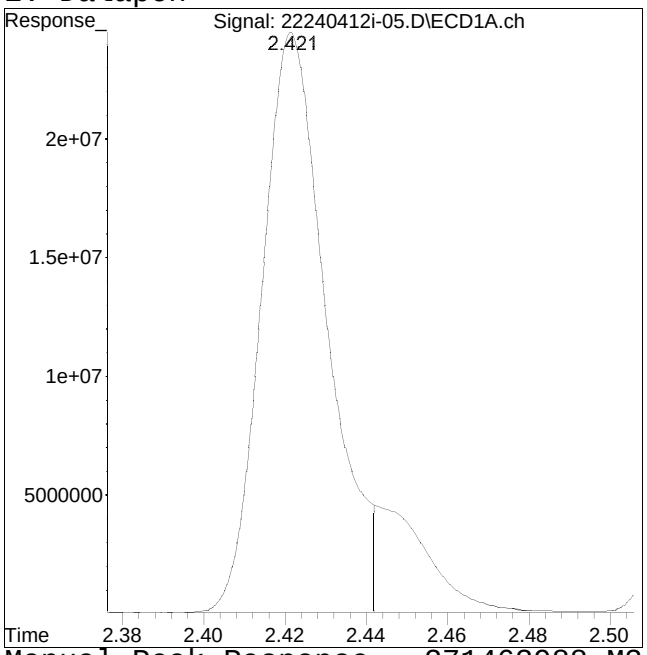
Original Peak Response = 741193015 Manual Peak Response = 728923949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #2: Dalapon



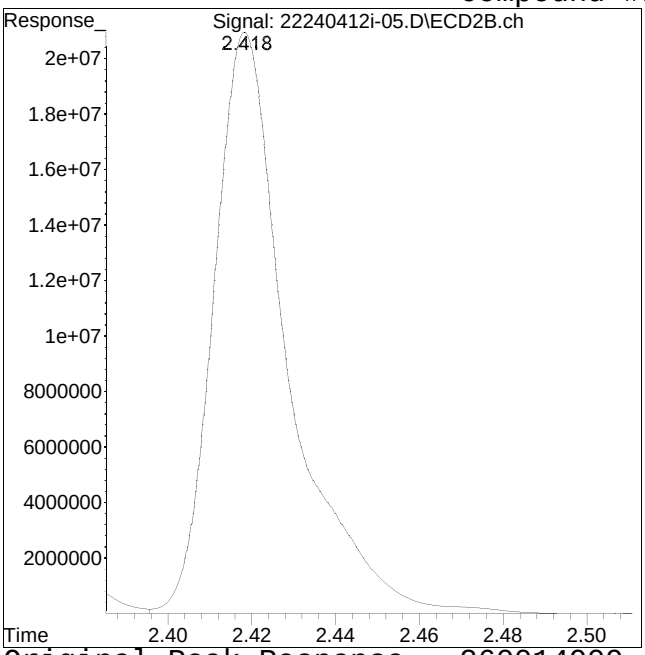


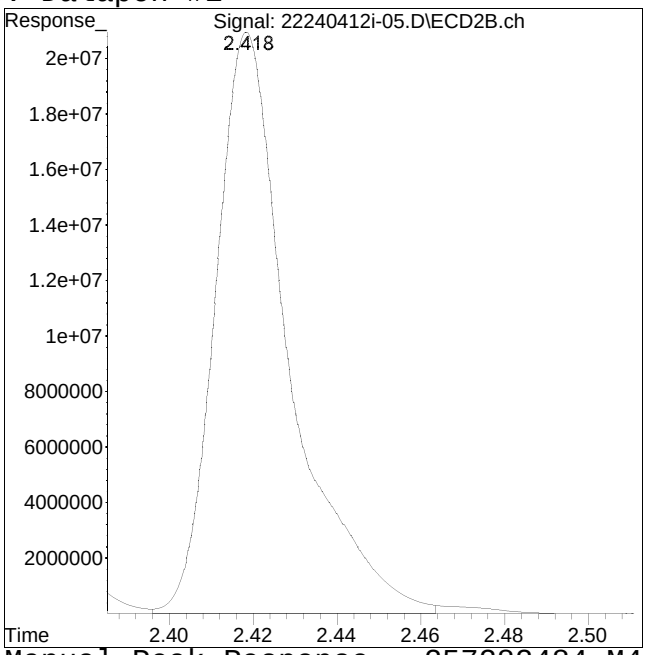
Original Peak Response = 313163809 Manual Peak Response = 271463988 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #15: Dalapon #2



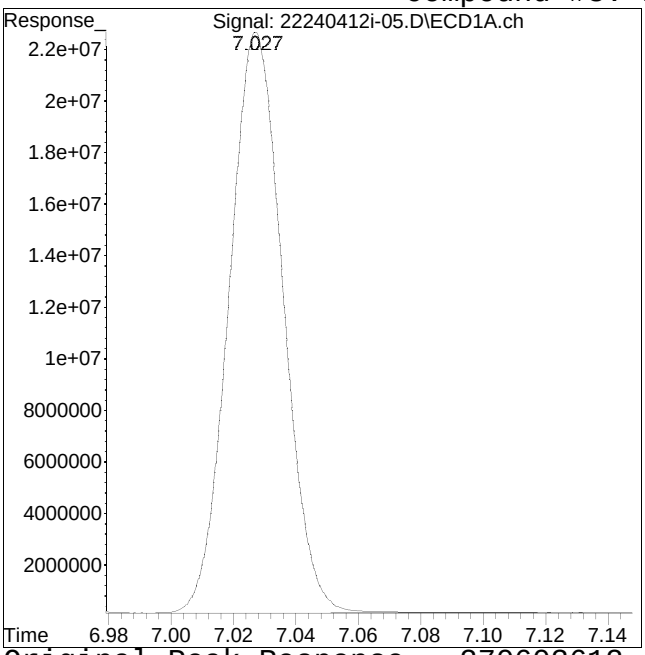


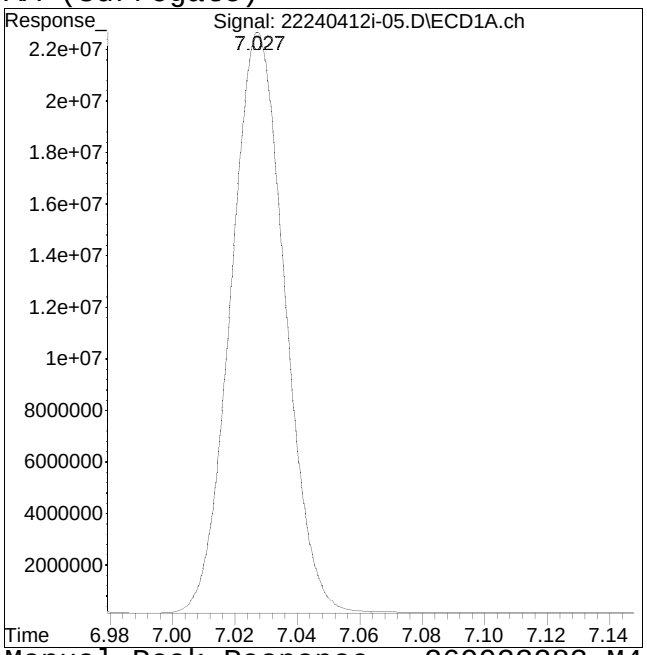
Original Peak Response = 260014909 Manual Peak Response = 257282484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #3: DCAA (surrogate)



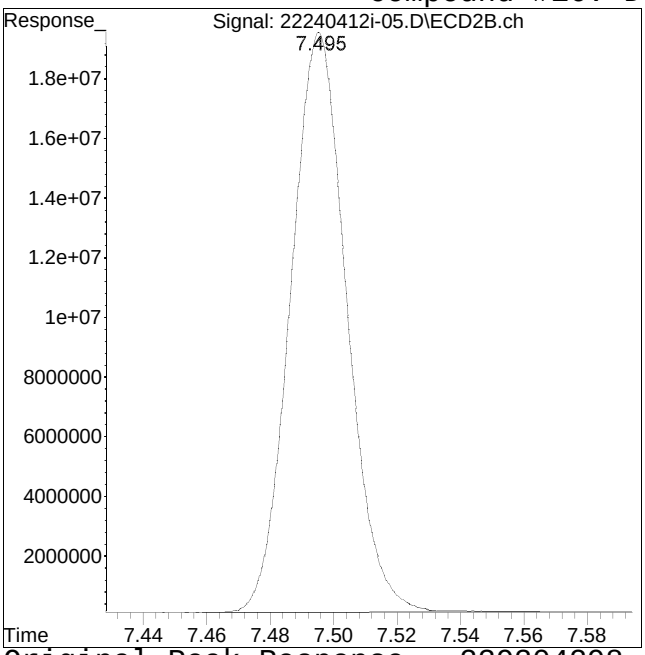


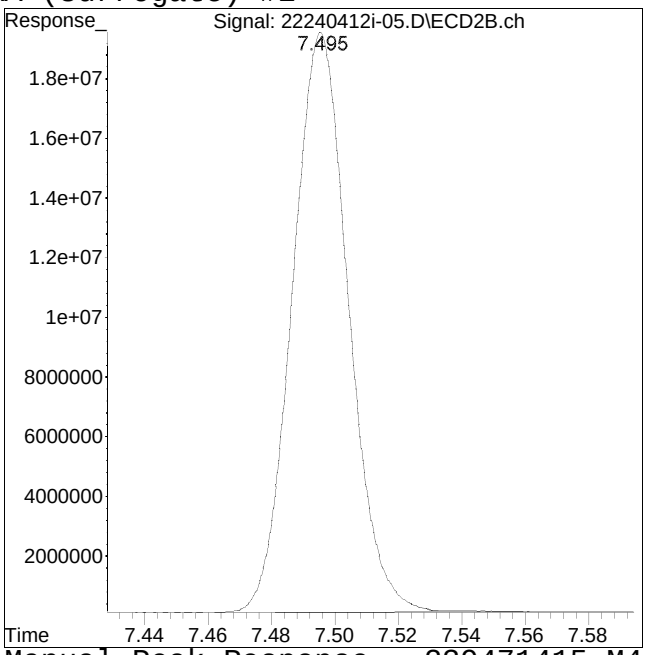
Original Peak Response = 270603612 Manual Peak Response = 269923283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #16: DCAA (surrogate) #2



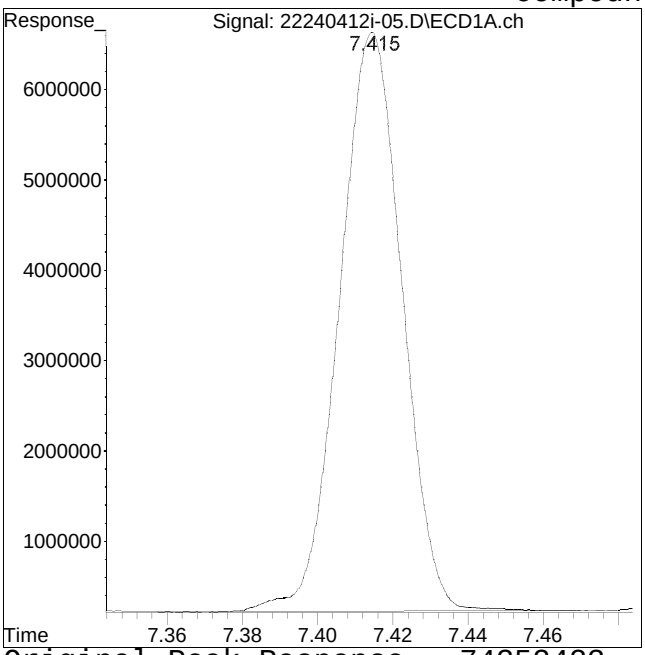


Original Peak Response = 239304298 Manual Peak Response = 239471415 M4
M4 = Poor automated baseline construction.

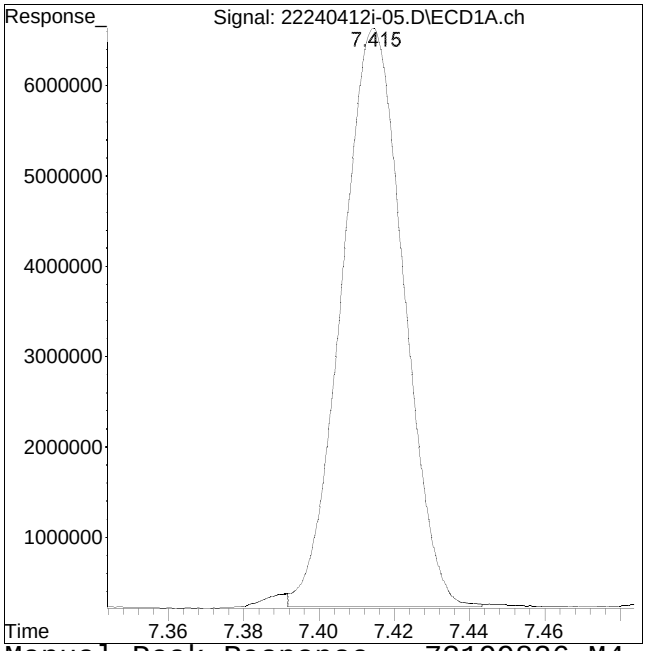
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #5: MCPP



Original Peak Response = 74352423



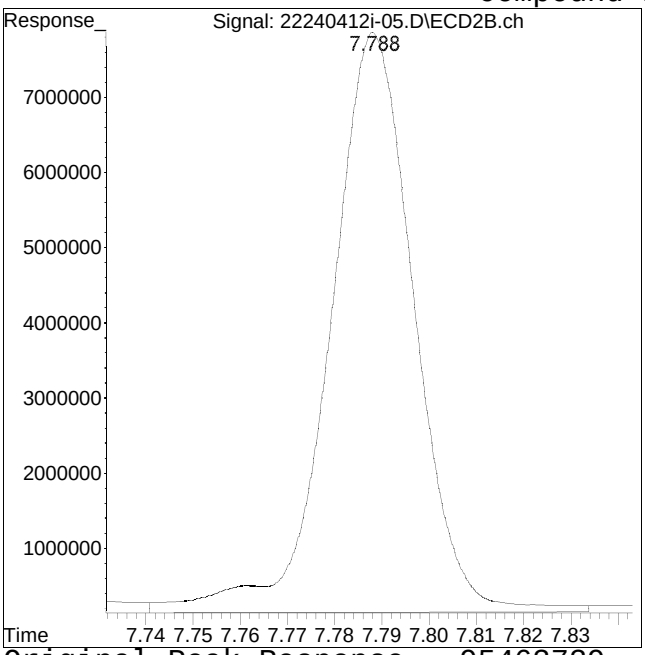
Manual Peak Response = 73199826 M4

M4 = Poor automated baseline construction.

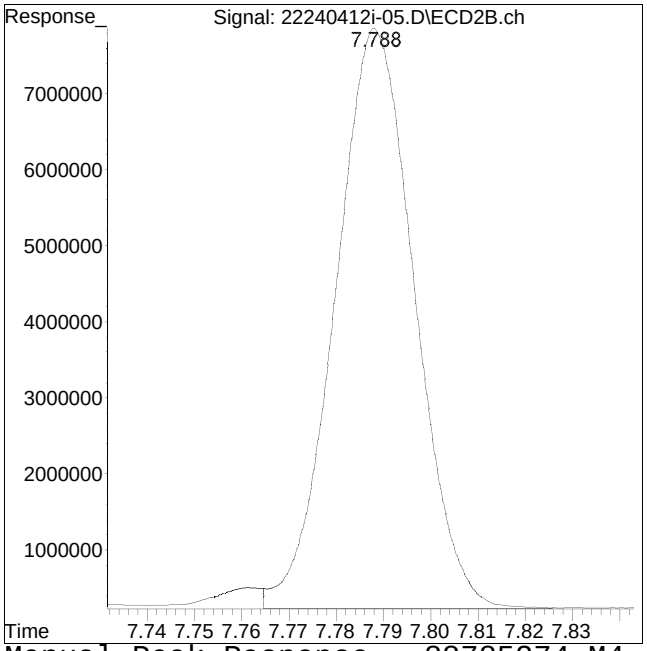
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #18: MCPP #2



Original Peak Response = 95463739



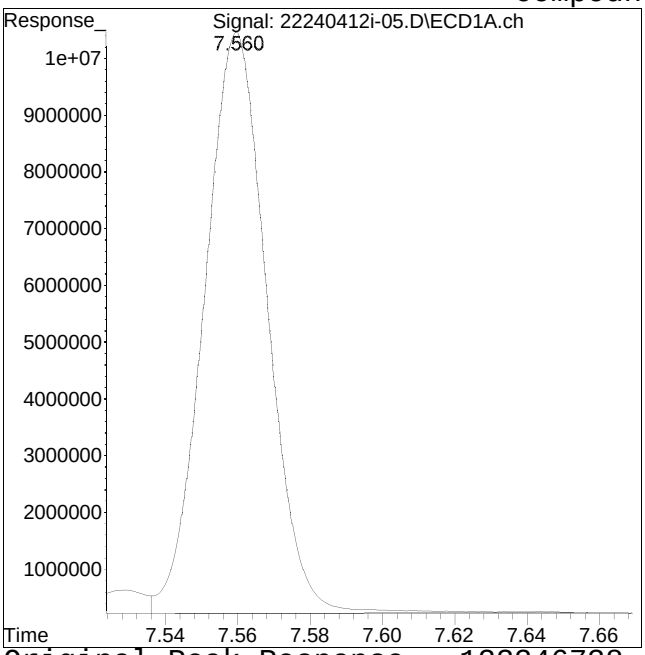
Manual Peak Response = 88785274 M4

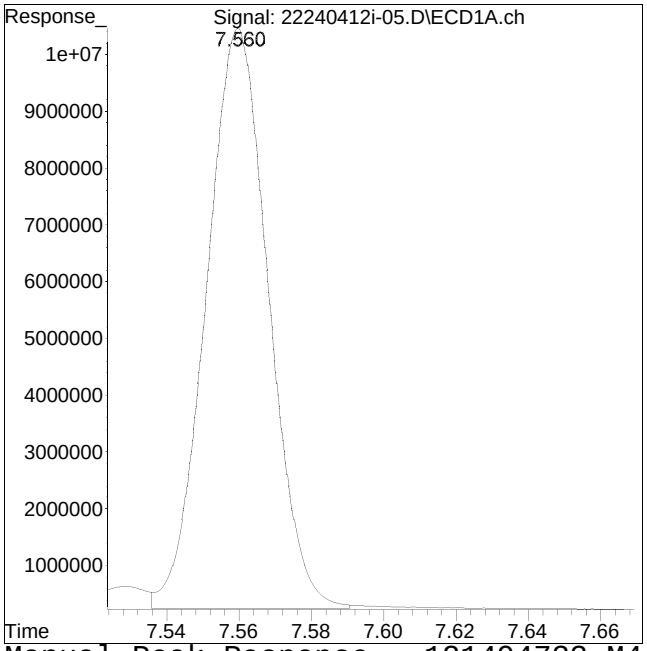
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #6: MCPA



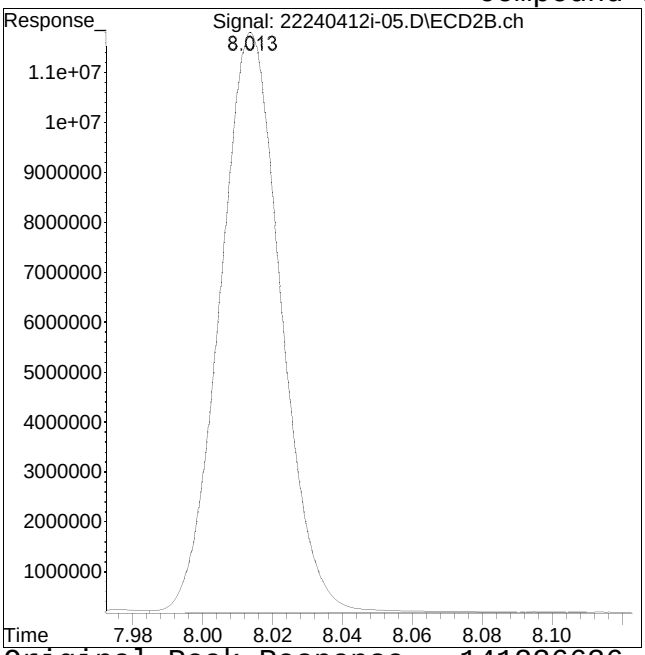


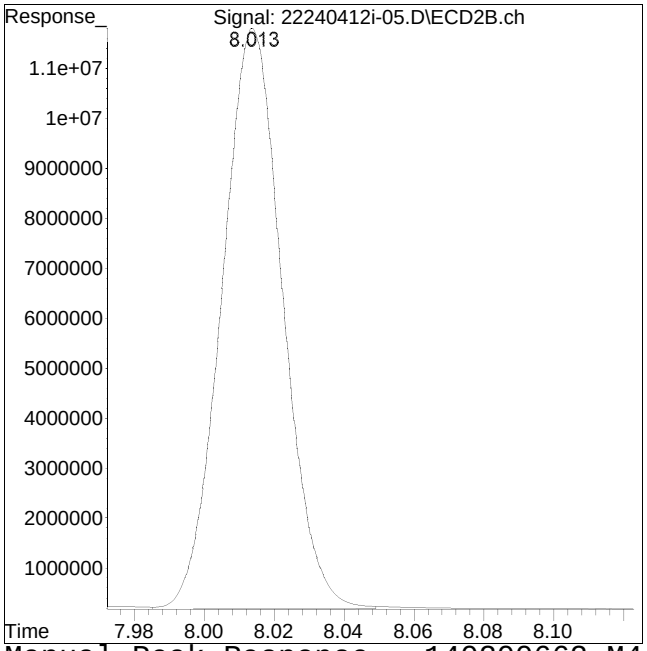
Original Peak Response = 123346738 Manual Peak Response = 121494733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #19: MCPA #2



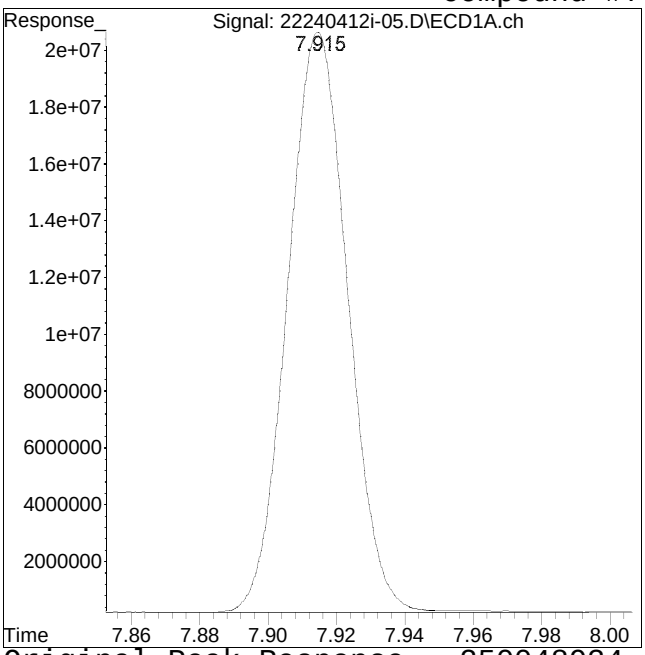


Original Peak Response = 141236636 Manual Peak Response = 140200662 M4
M4 = Poor automated baseline construction.

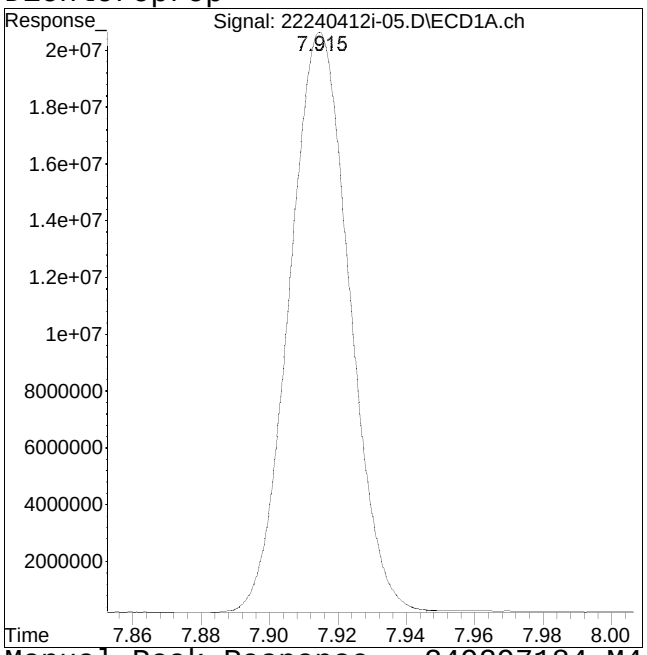
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #7: Dichloroprop



Original Peak Response = 250048934



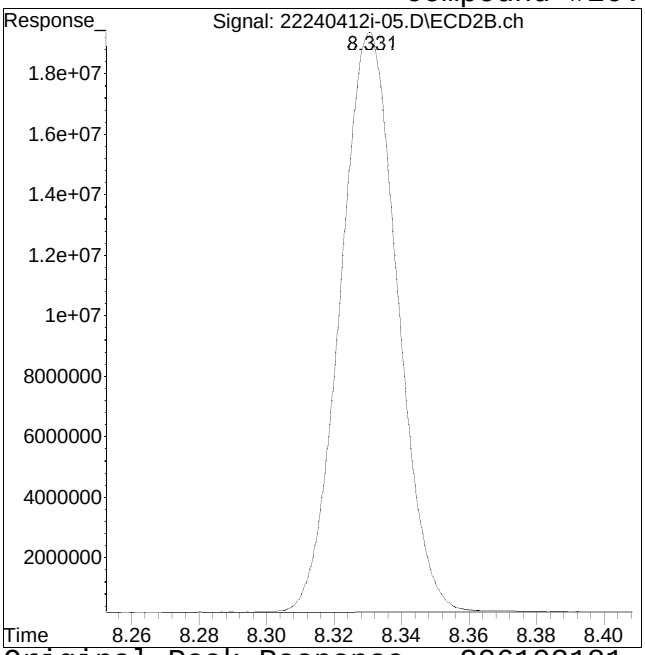
Manual Peak Response = 249297184 M4

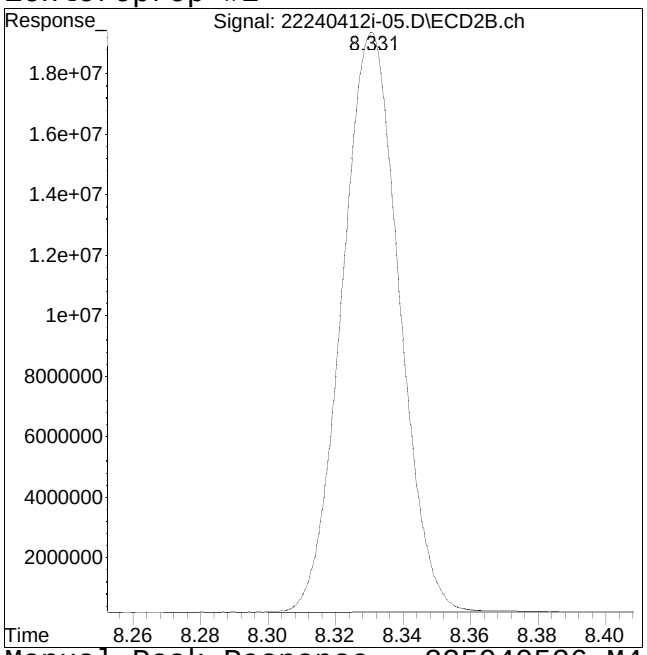
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #20: Dichloroprop #2



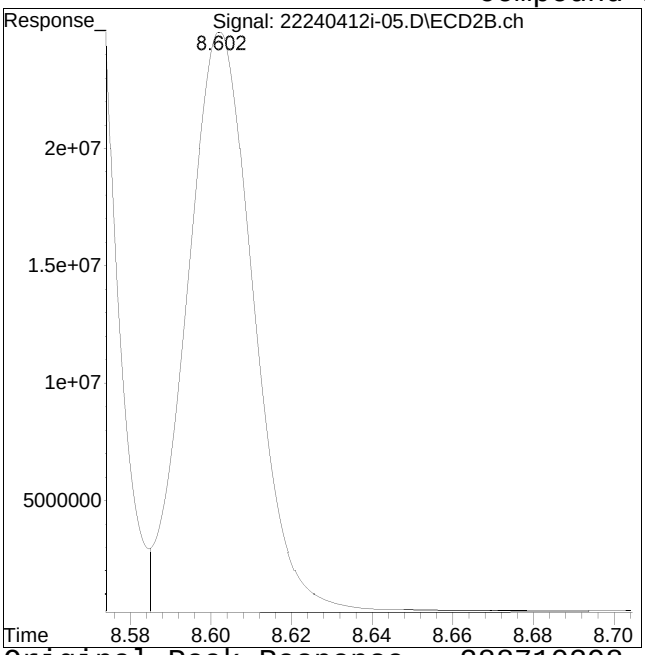


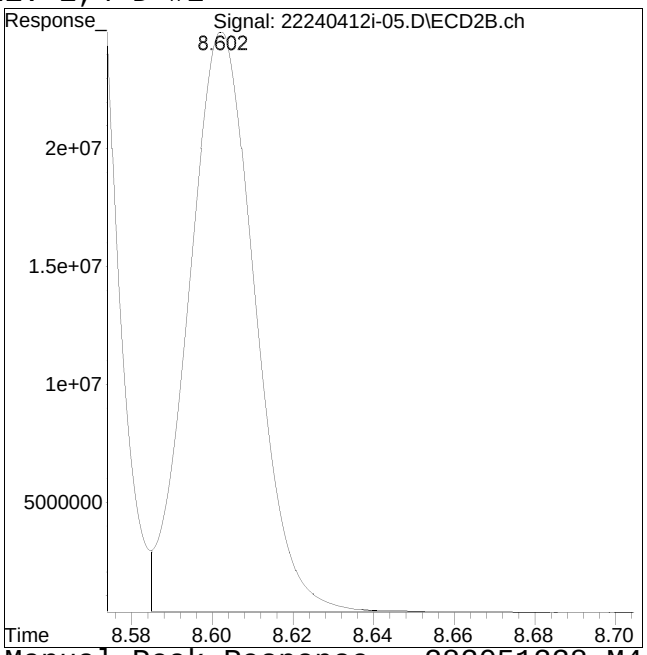
Original Peak Response = 226103181 Manual Peak Response = 225940526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #21: 2,4-D #2



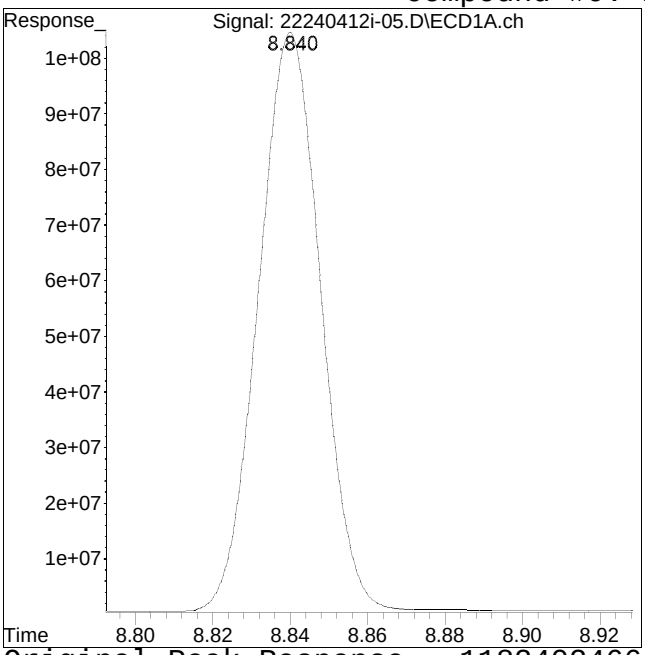


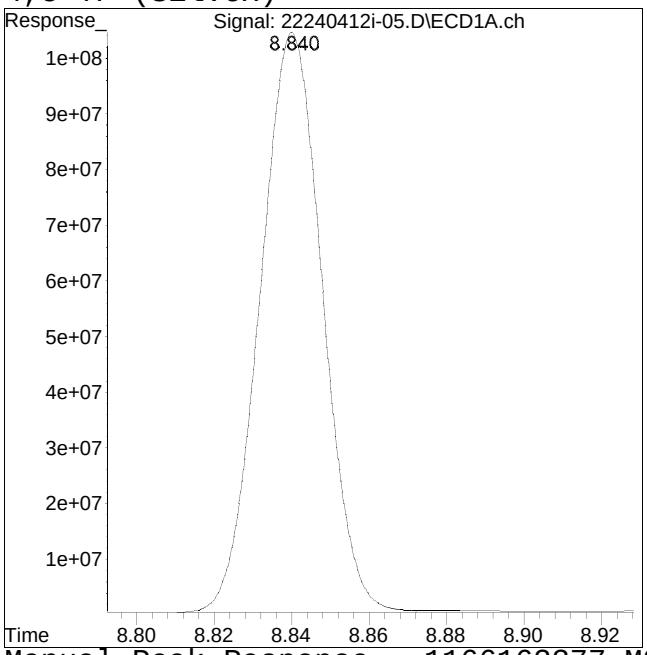
Original Peak Response = 288710398 Manual Peak Response = 282051338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #9: 2,4,5-TP (Silvex)



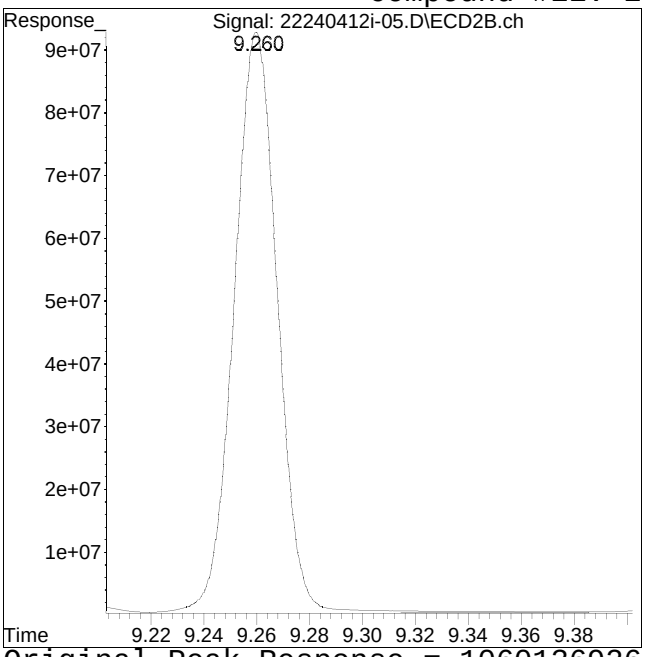


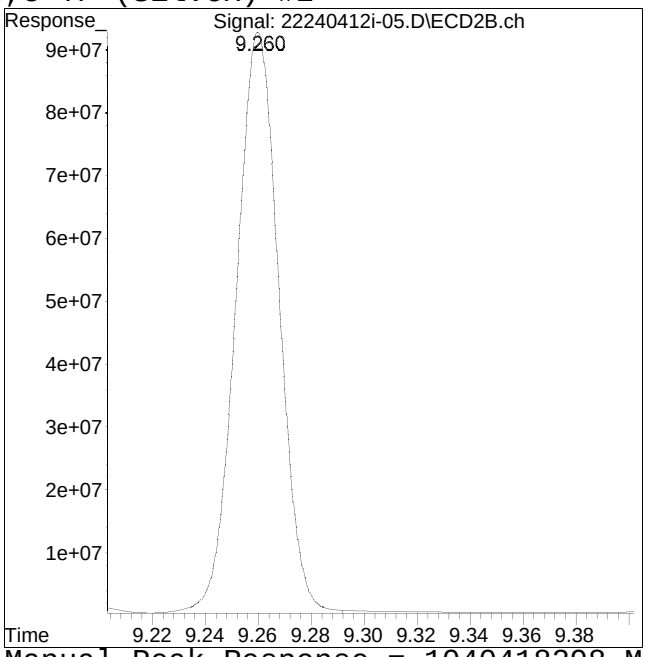
Original Peak Response = 1182402466 Manual Peak Response = 1166163377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #22: 2,4,5-TP (Silvex) #2



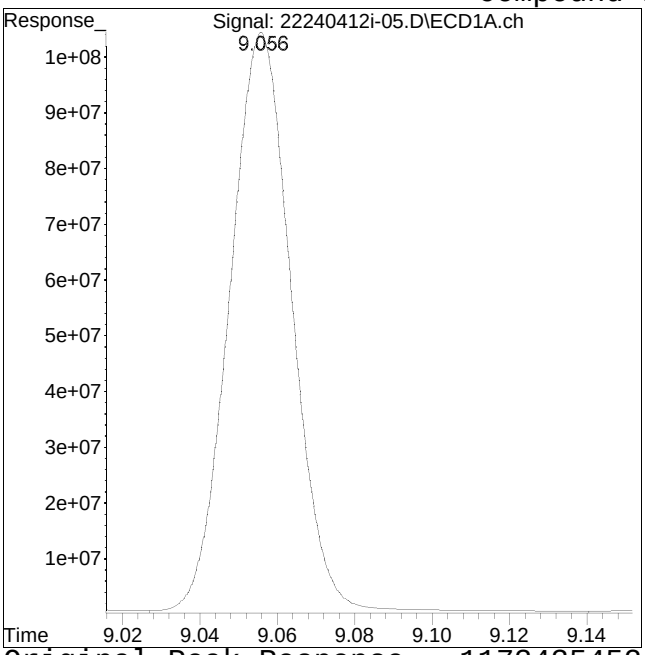


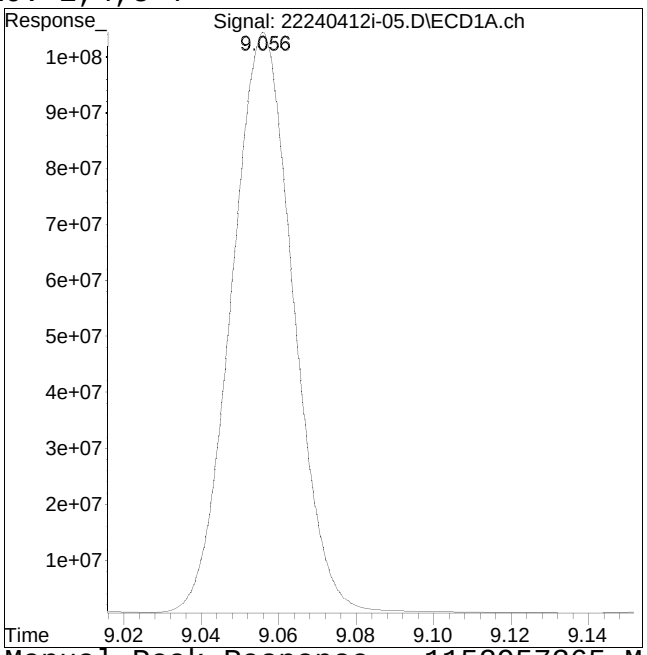
Original Peak Response = 1060136926 Manual Peak Response = 1040418298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #10: 2,4,5-T



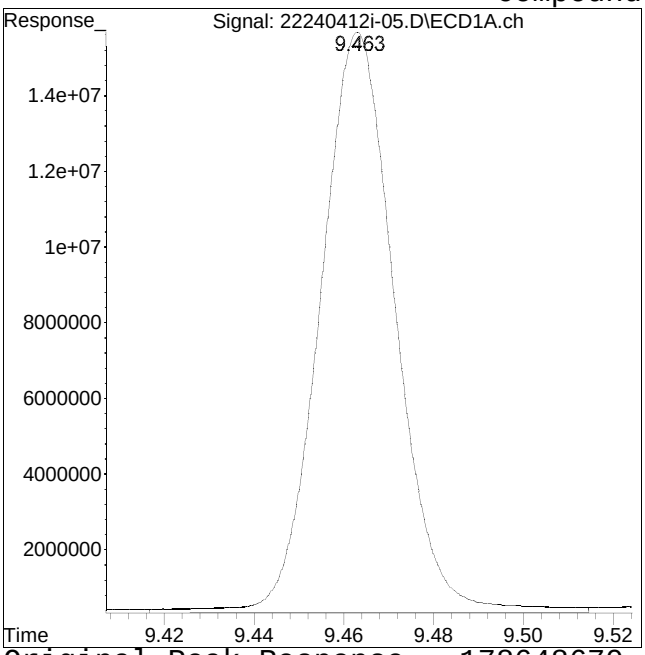


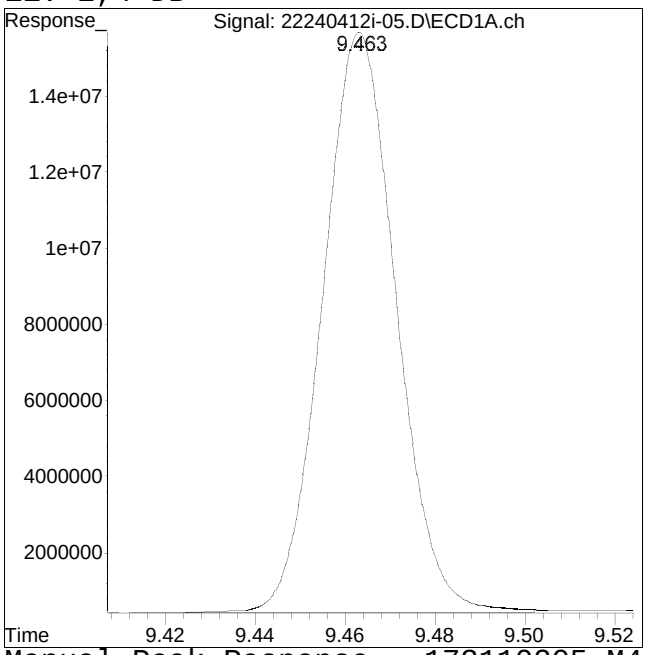
Original Peak Response = 1173435452 Manual Peak Response = 1152957365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #11: 2,4-DB



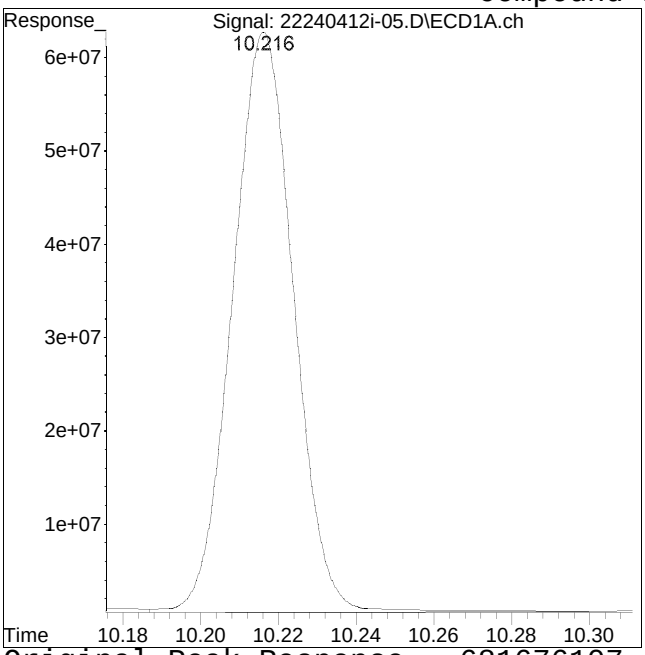


Original Peak Response = 178648670 Manual Peak Response = 173110205 M4
M4 = Poor automated baseline construction.

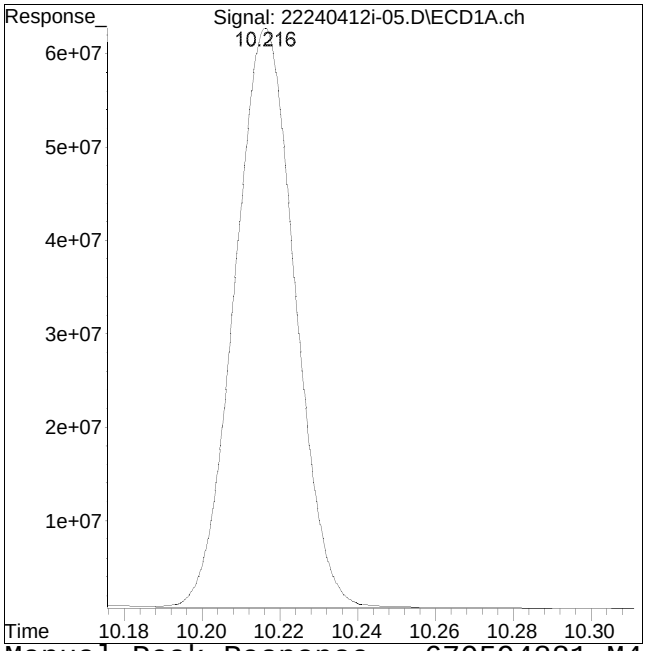
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #12: Dinoseb



Original Peak Response = 681676107

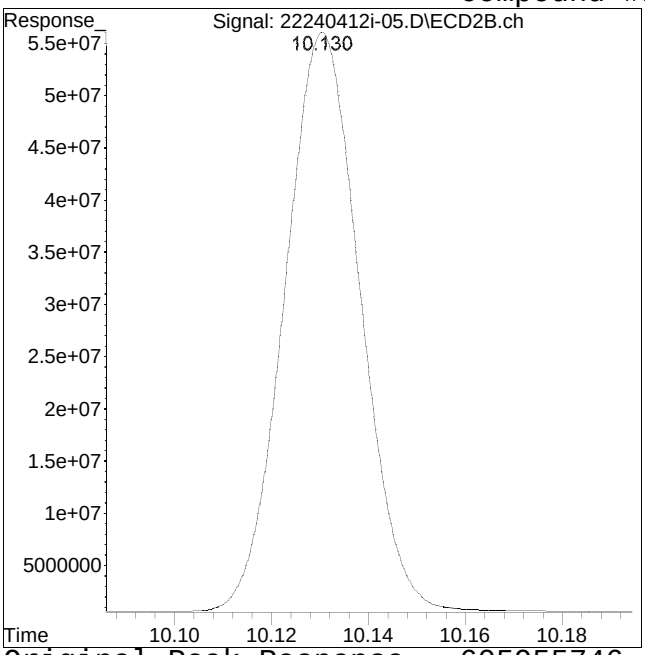


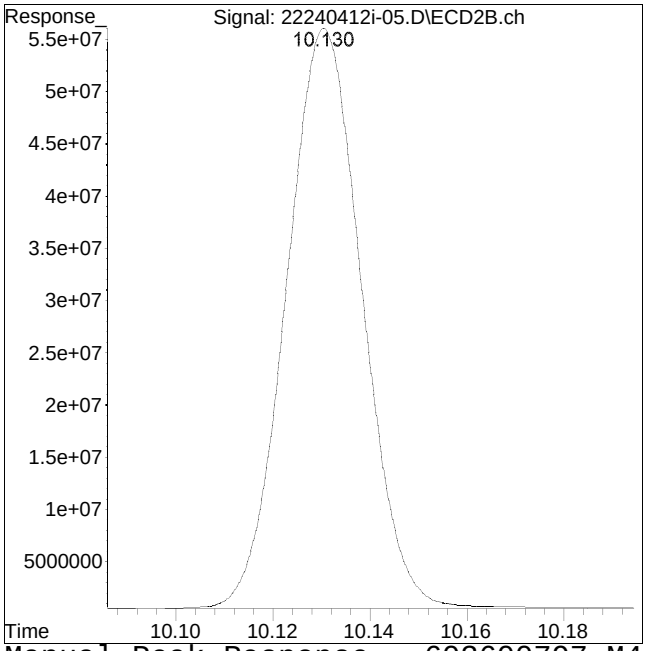
Manual Peak Response = 670594881 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #25: Dinoseb #2





Original Peak Response = 605955746 Manual Peak Response = 603600797 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	717.1E6	655.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.494	487.7E6	437.6E6	0.822M4	0.836M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	164.40%#	167.20%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	537.5E6	451.2E6	0.887	0.837M4
4)	t	Dicamba	7.212	7.676	1383.9E6	1339.4E6	0.815M4	0.866M4
5)	t	MCPP	7.414	7.788	143.4E6	169.9E6	92.464M4	89.596M3
6)	t	MCPA	7.560	8.014	224.2E6	257.1E6	81.702M4	82.003M4
7)	t	Dichloroprop	7.913	8.329	442.2E6	413.6E6	0.795M4	0.835M4
8)	t	2,4-D	8.121	8.601	567.4E6	527.6E6	0.817M4	0.866M4
9)	t	2,4,5-TP (Si	8.839	9.259	2103.9E6	1931.5E6	0.830M3	0.868M4
10)	t	2,4,5-T	9.055	9.545	2091.7E6	1898.4E6	0.845M4	0.881M4
11)	t	2,4-DB	9.462	9.906	312.1E6	320.4E6	0.825M4	0.885M4
12)	t	Dinoseb	10.216	10.130	1217.6E6	1131.0E6	0.846M4	0.887M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

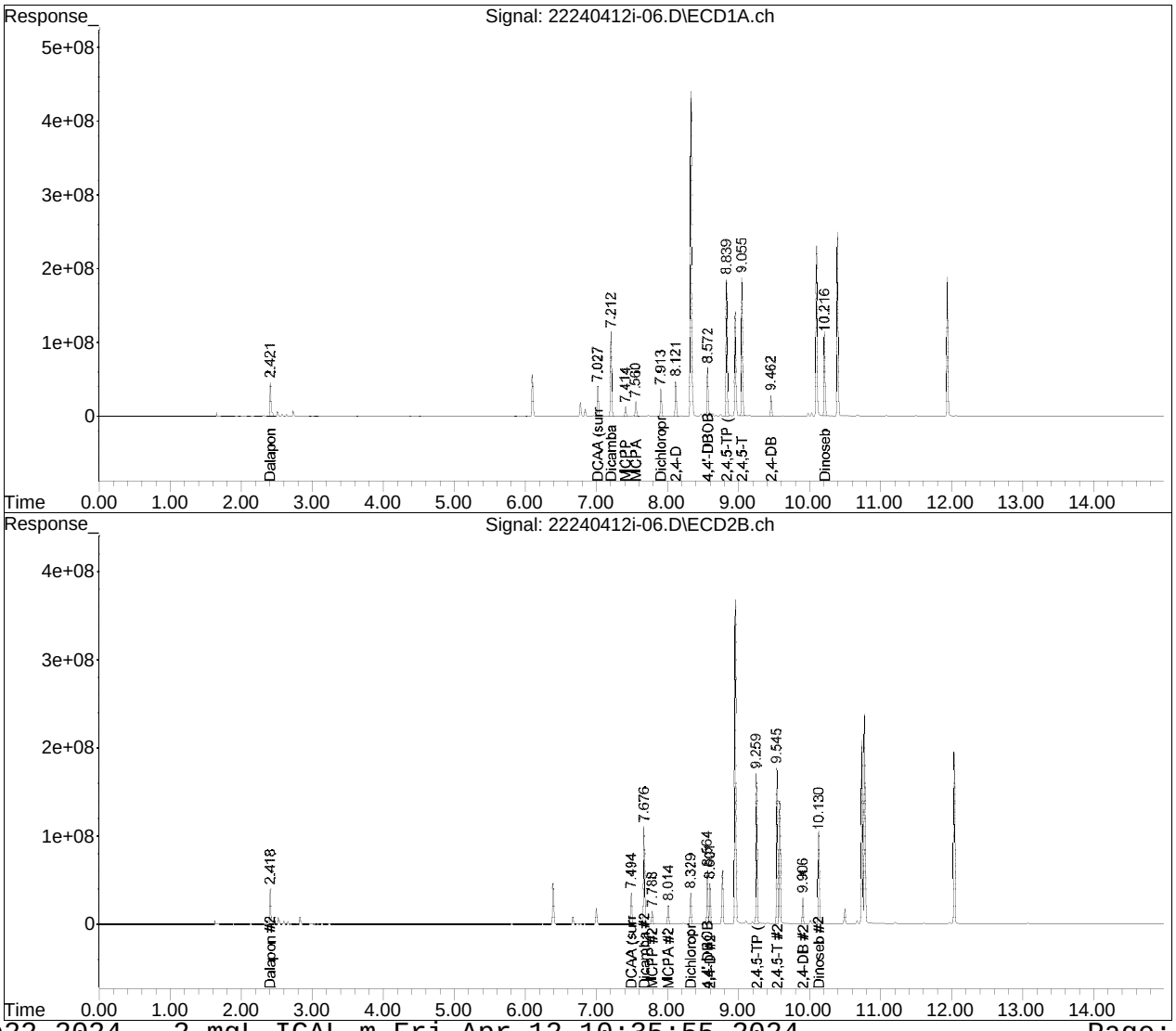
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

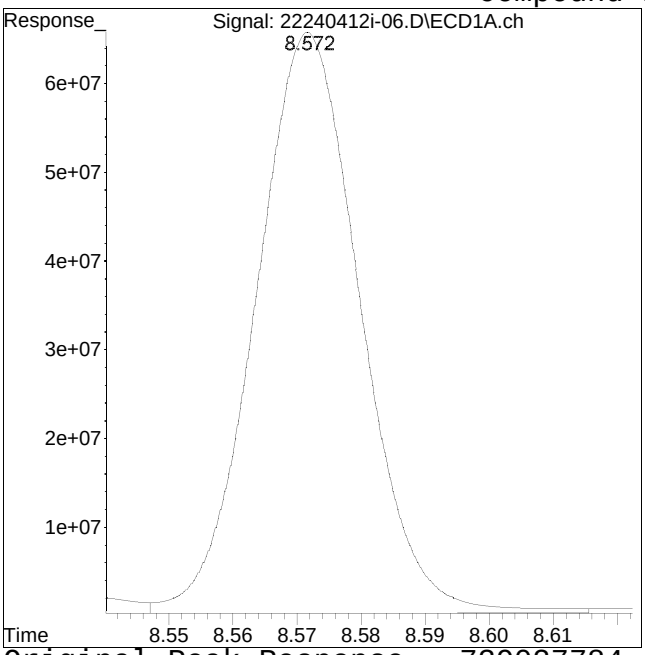
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

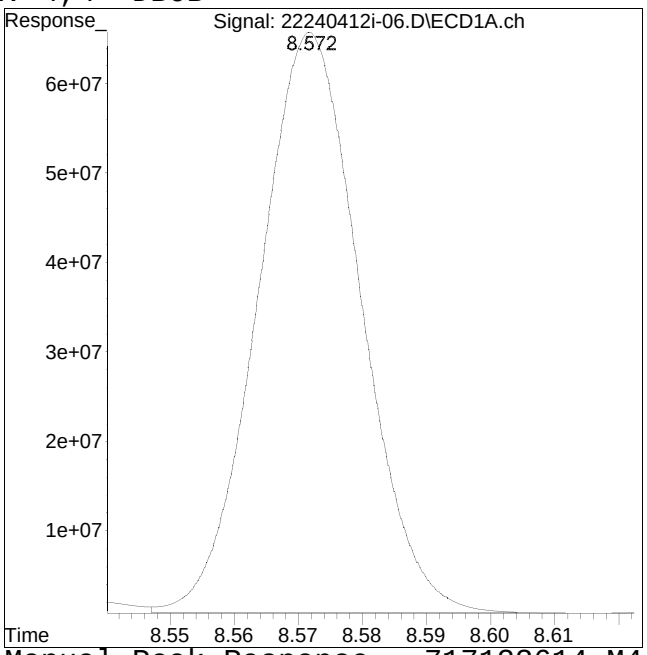


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #1: 4,4'-DBOB



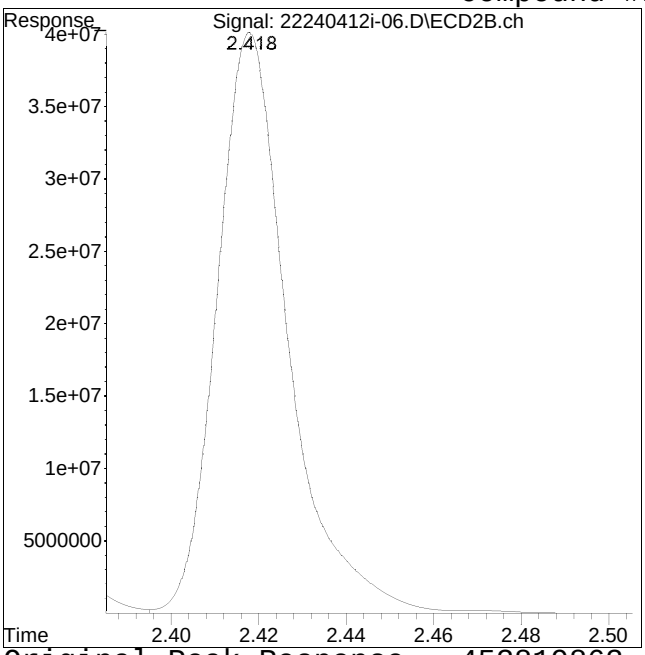


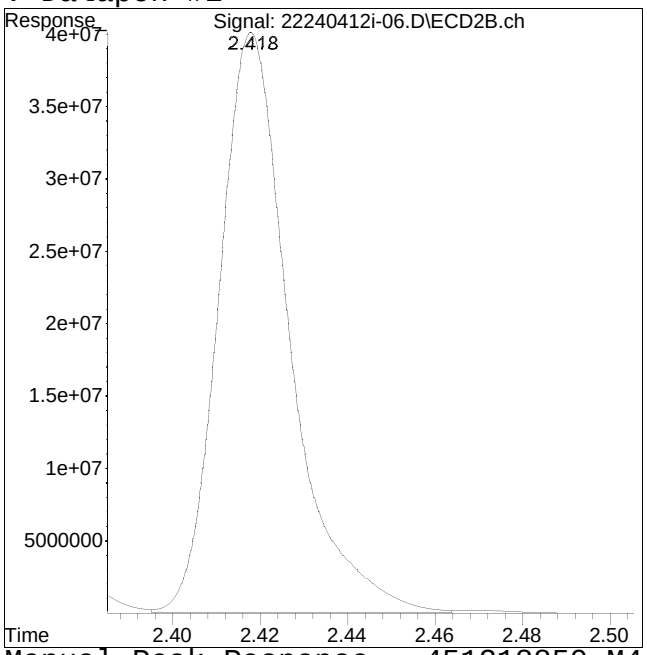
Original Peak Response = 739027784 Manual Peak Response = 717123614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #15: Dalapon #2



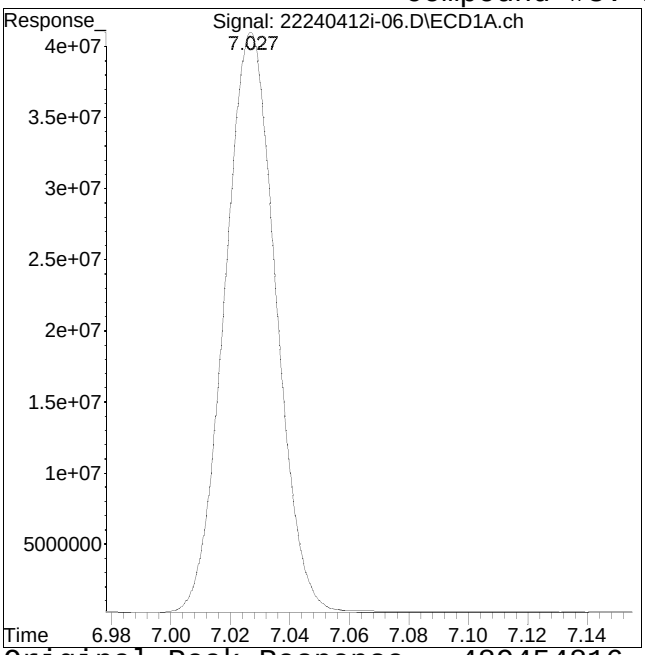


Original Peak Response = 453819863 Manual Peak Response = 451218850 M4
M4 = Poor automated baseline construction.

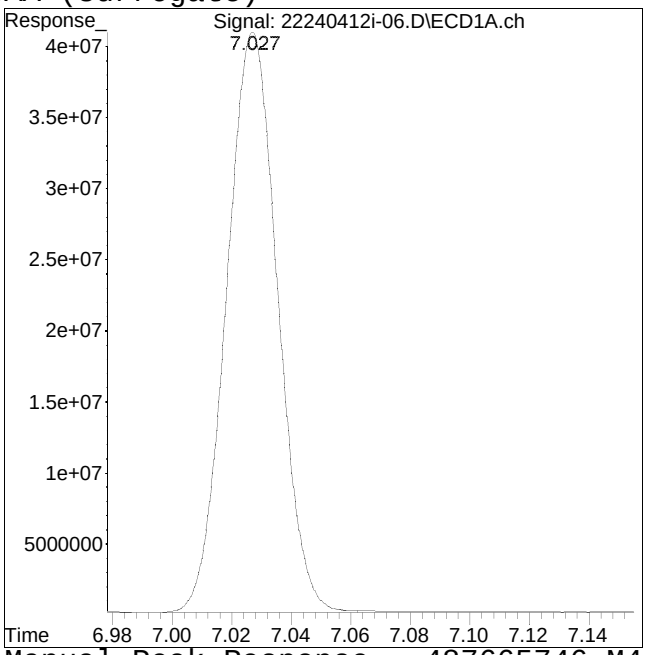
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #3: DCAA (surrogate)



Original Peak Response = 489454816



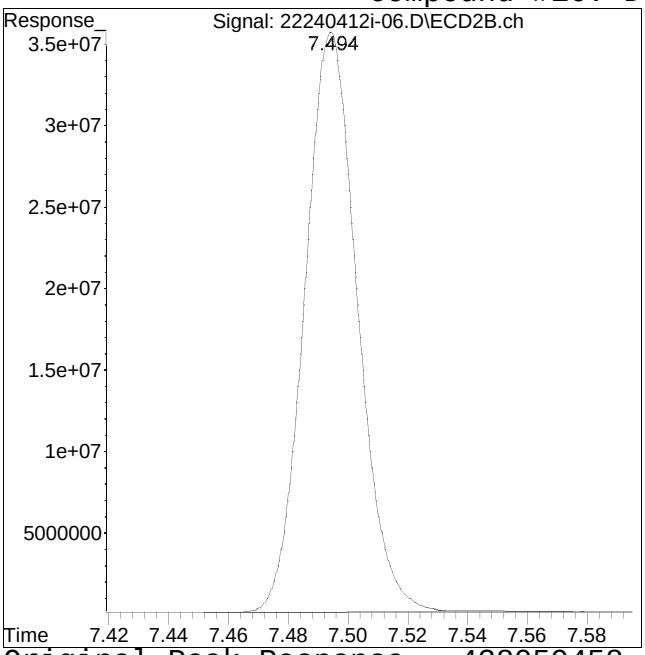
Manual Peak Response = 487665746 M4

M4 = Poor automated baseline construction.

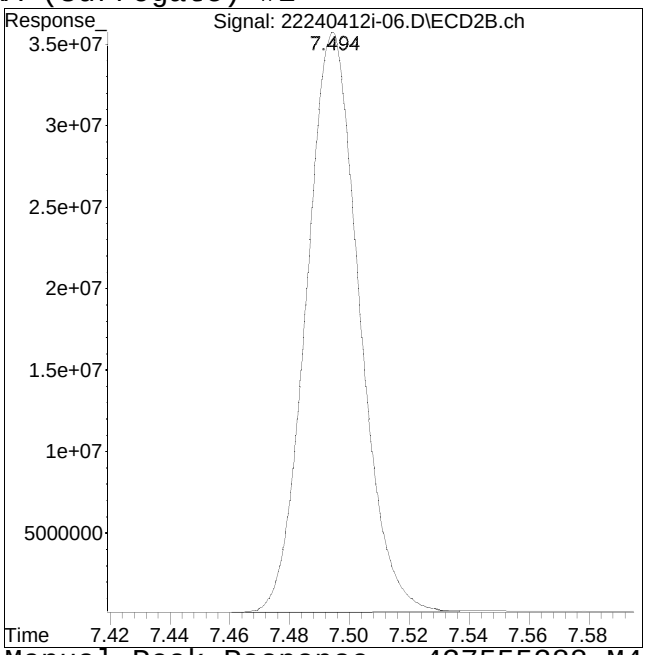
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 438059458

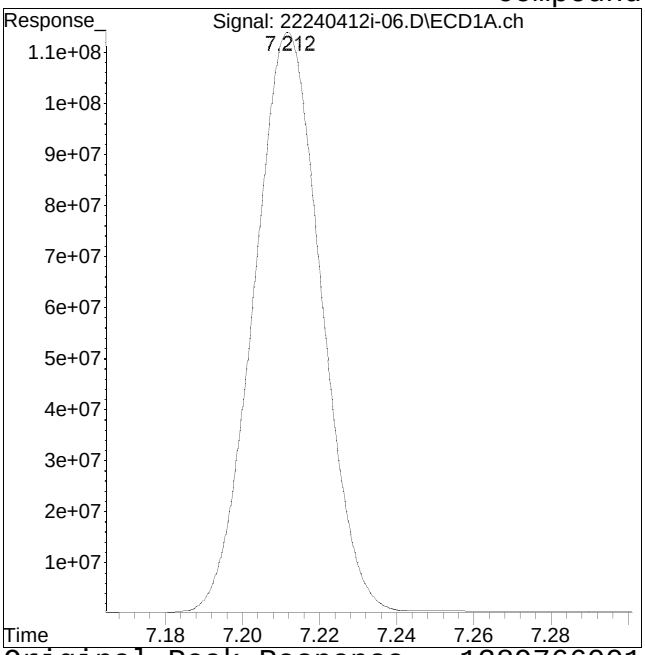


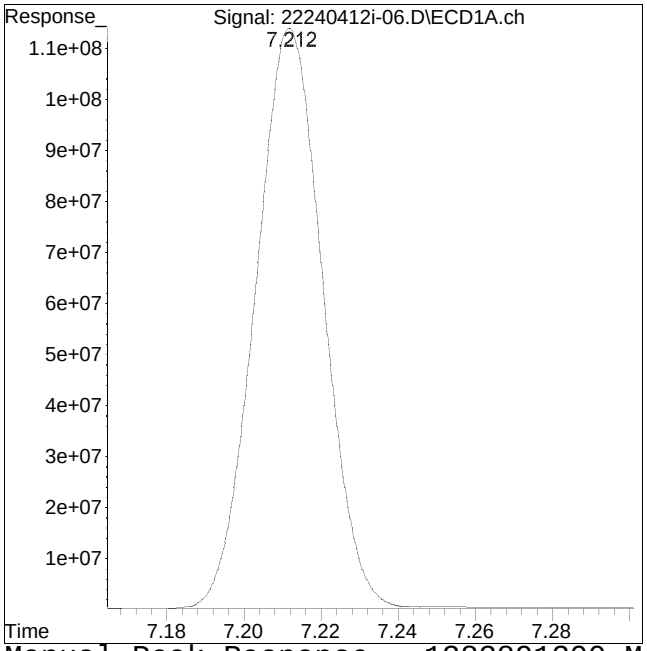
Manual Peak Response = 437555388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #4: Dicamba



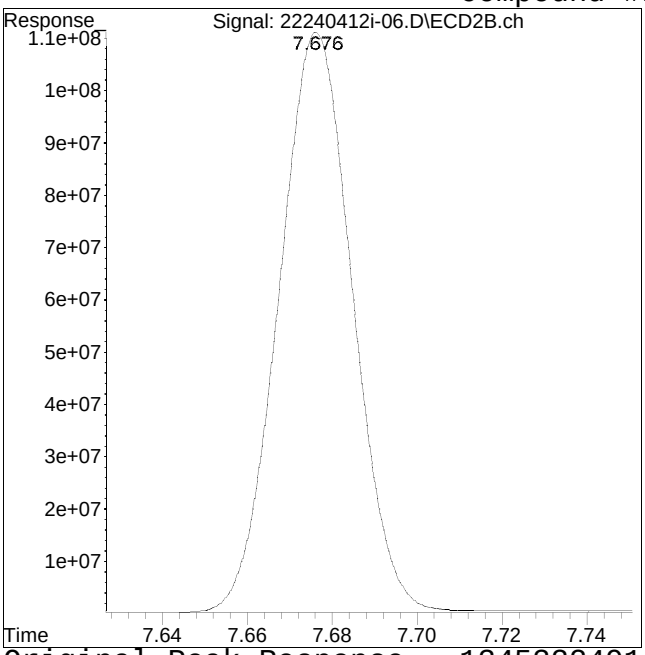


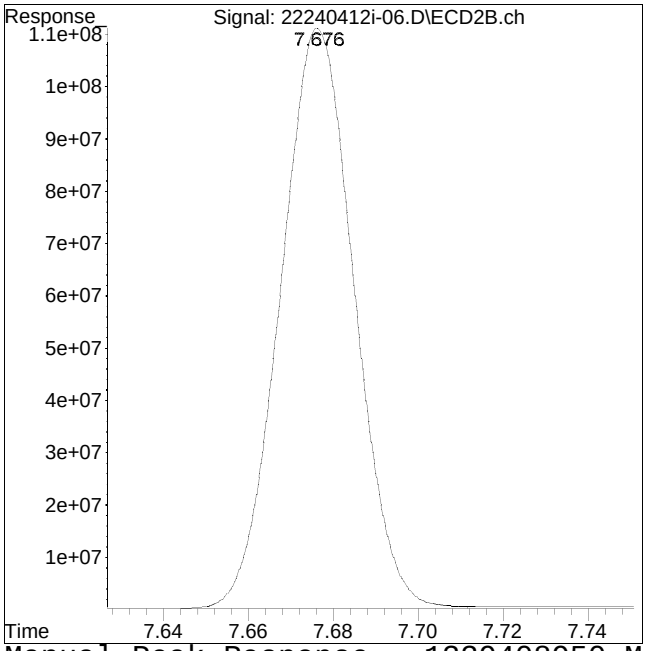
Original Peak Response = 1389766001 Manual Peak Response = 1383891300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #17: Dicamba #2



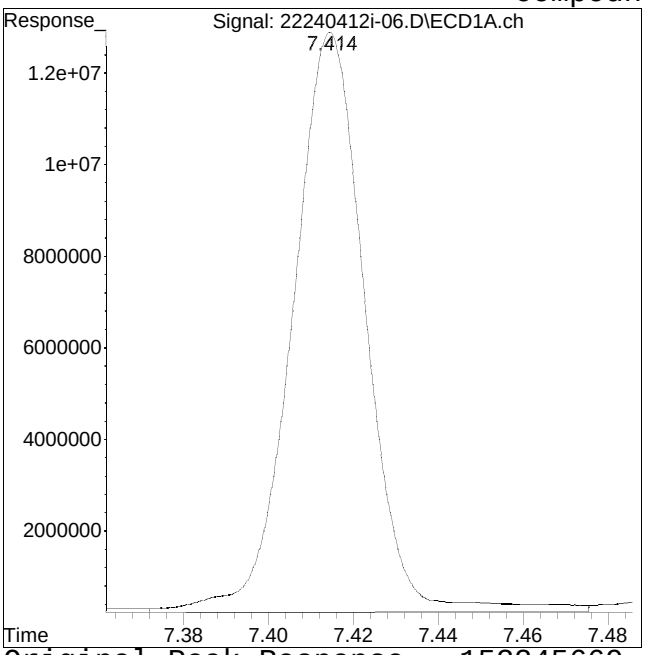


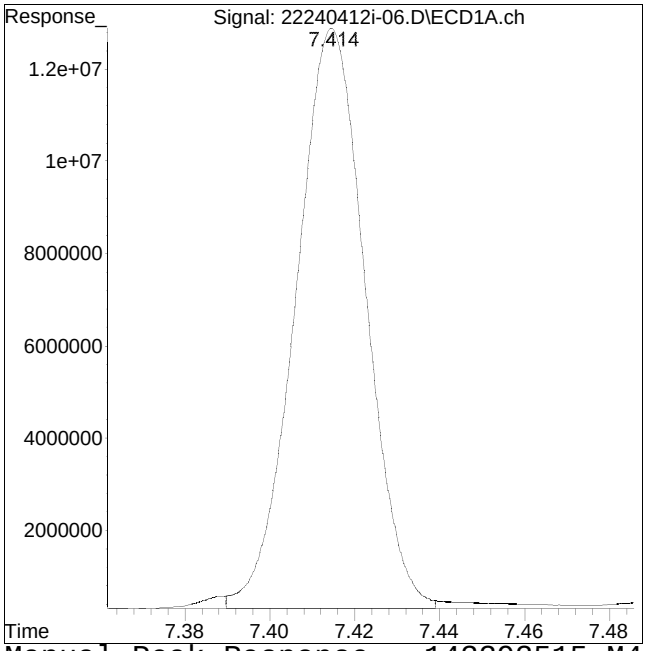
Original Peak Response = 1345322491 Manual Peak Response = 1339408950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #5: MCPP



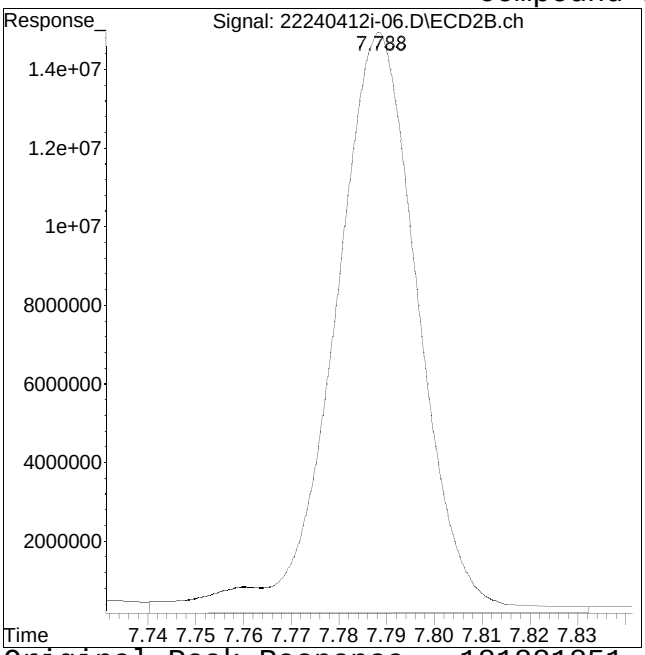


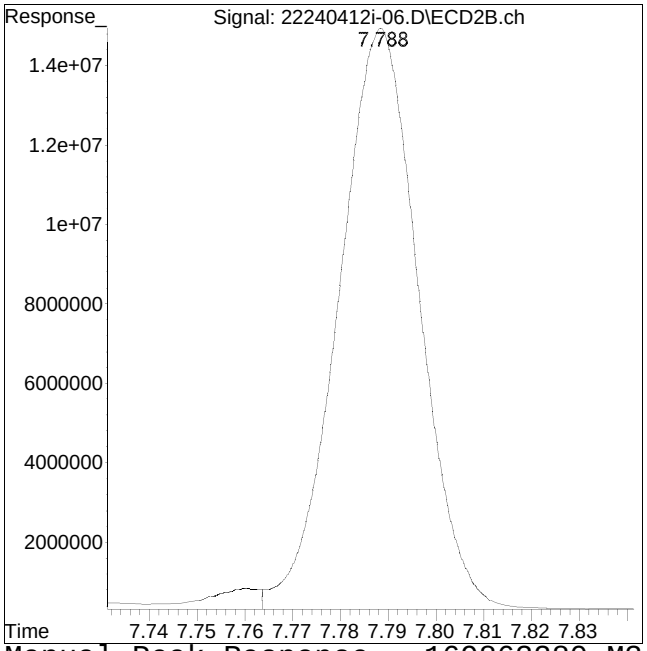
Original Peak Response = 152245669 Manual Peak Response = 143393515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #18: MCPP #2



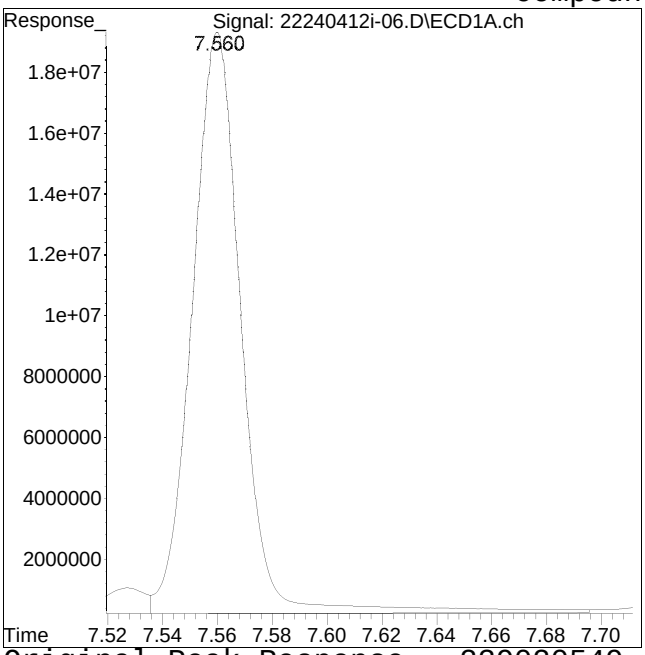


Original Peak Response = 181881851 Manual Peak Response = 169863280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

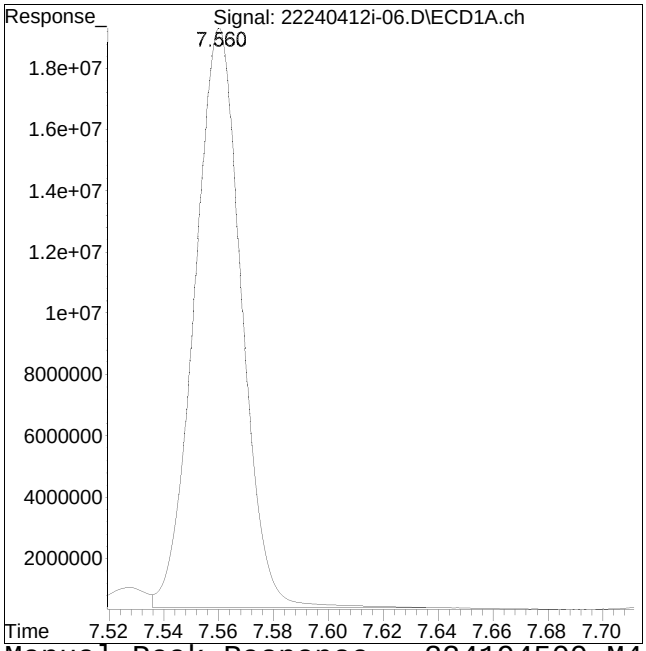
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #6: MCPA



Original Peak Response = 239020549



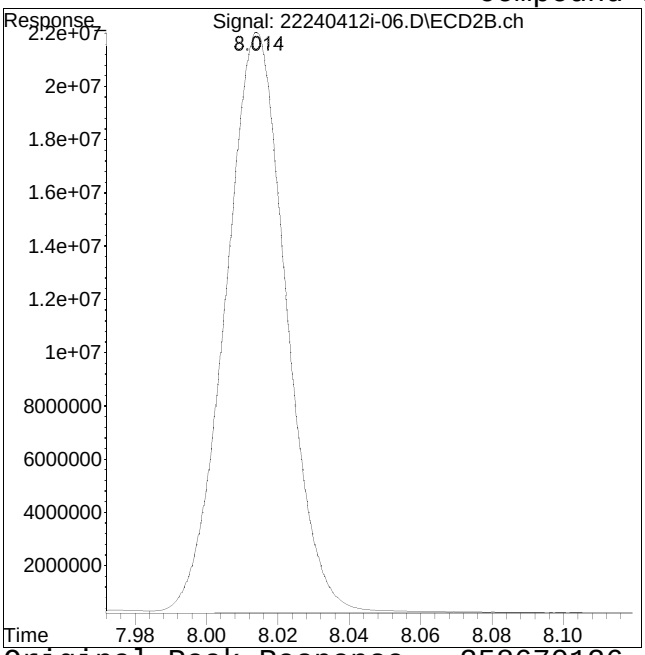
Manual Peak Response = 224194500 M4

M4 = Poor automated baseline construction.

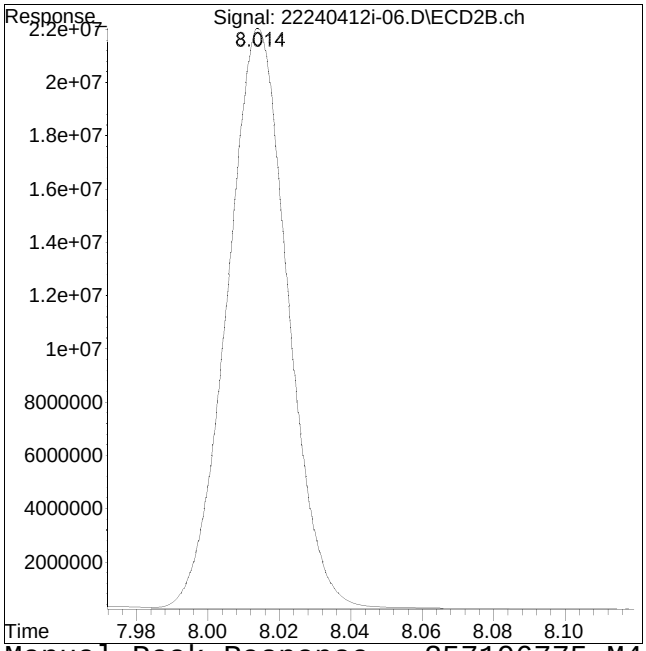
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #19: MCPA #2



Original Peak Response = 258670126

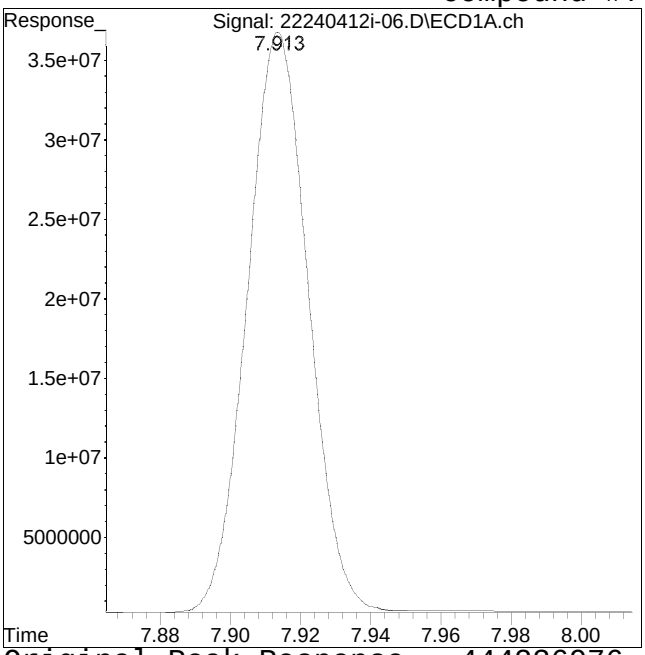


Manual Peak Response = 257106775 M4
M4 = Poor automated baseline construction.

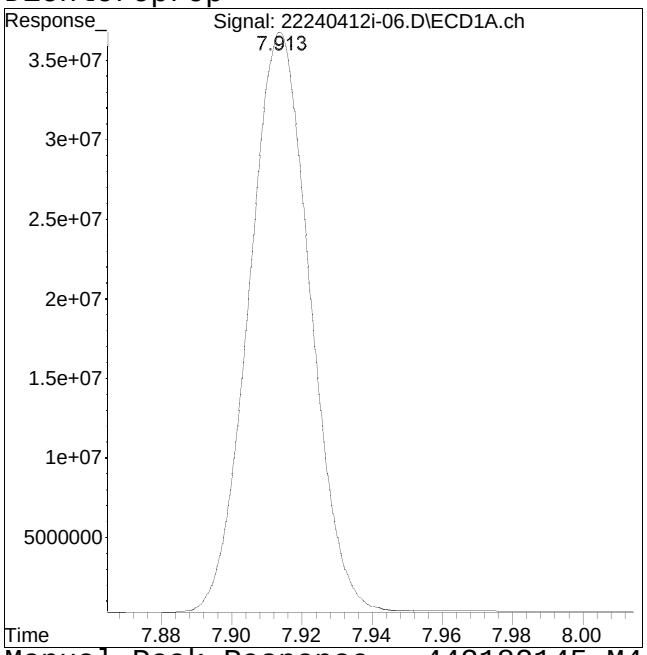
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #7: Dichloroprop



Original Peak Response = 444236976

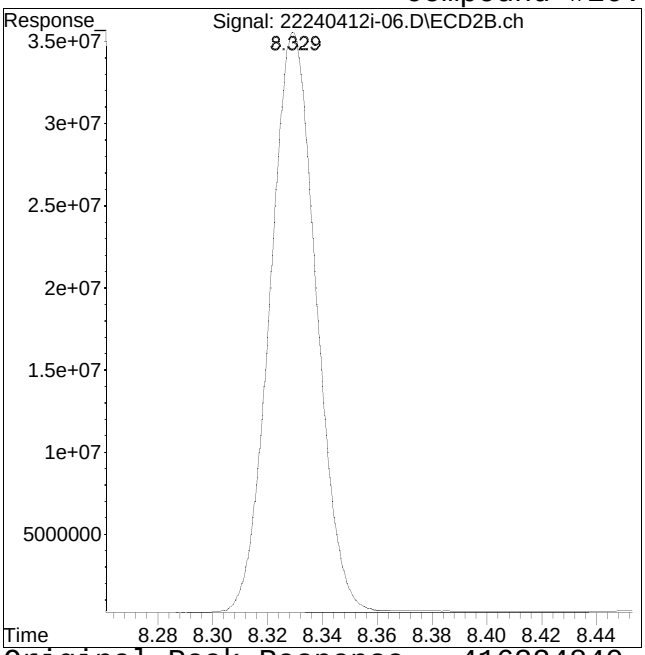


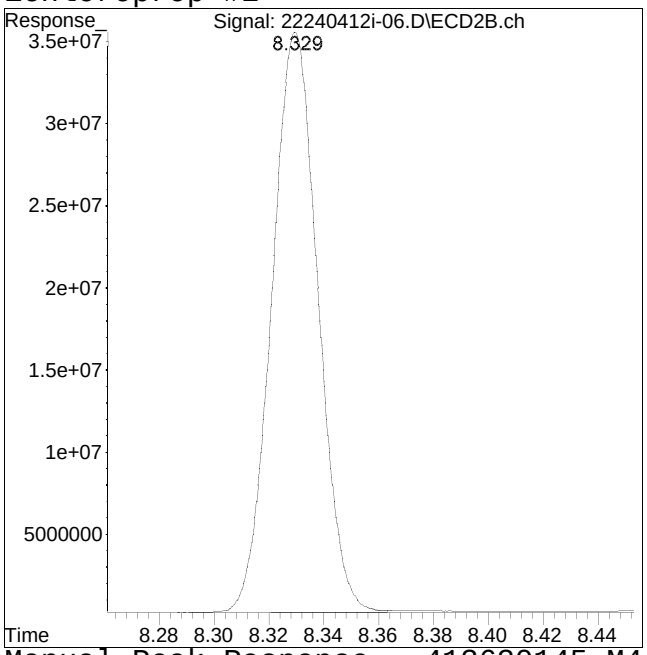
Manual Peak Response = 442182145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #20: Dichloroprop #2



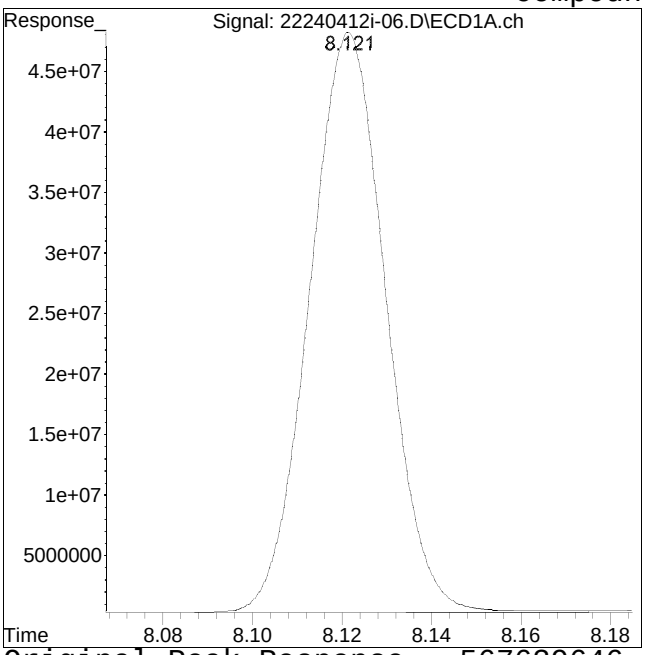


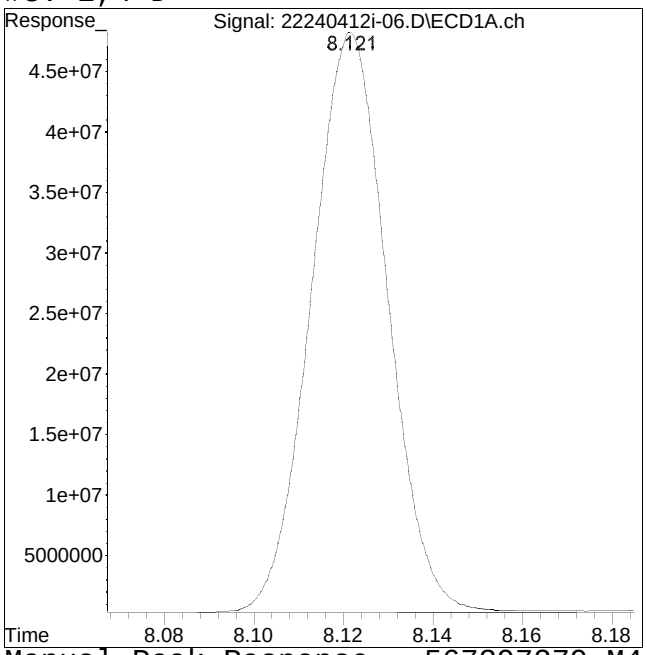
Original Peak Response = 416324840 Manual Peak Response = 413630145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #8: 2,4-D



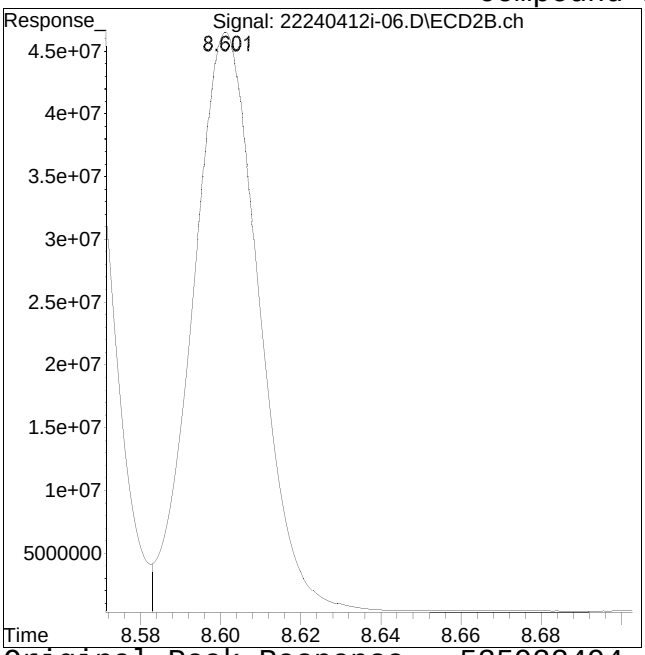


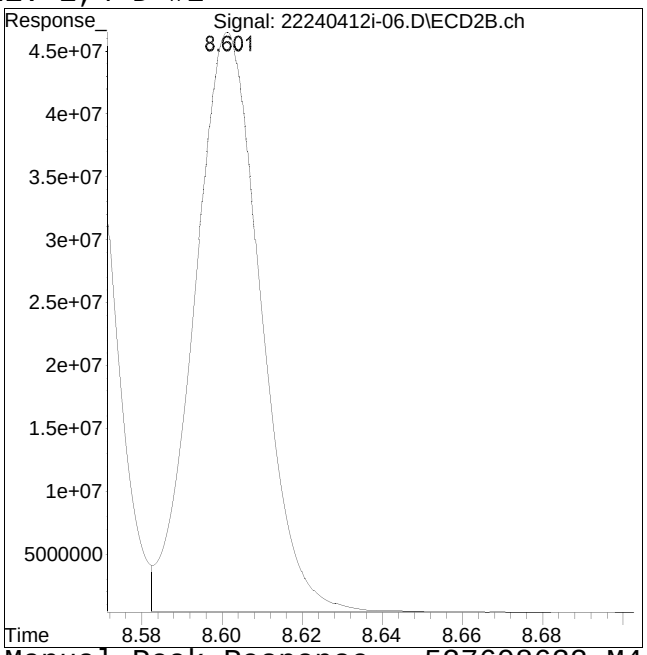
Original Peak Response = 567639646 Manual Peak Response = 567397279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #21: 2,4-D #2



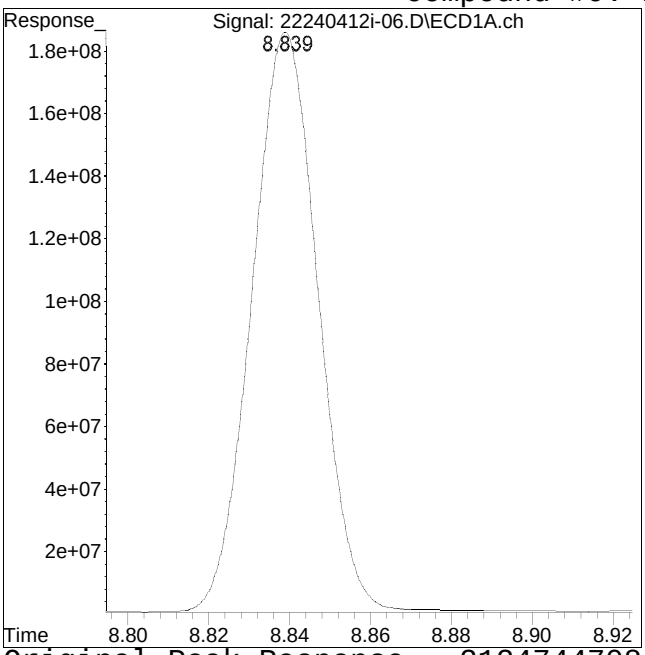


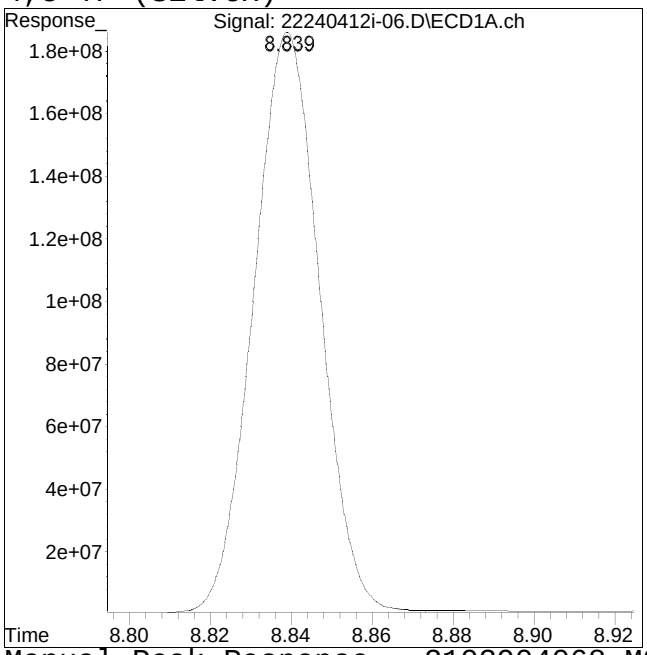
Original Peak Response = 535932494 Manual Peak Response = 527608632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #9: 2,4,5-TP (Silvex)



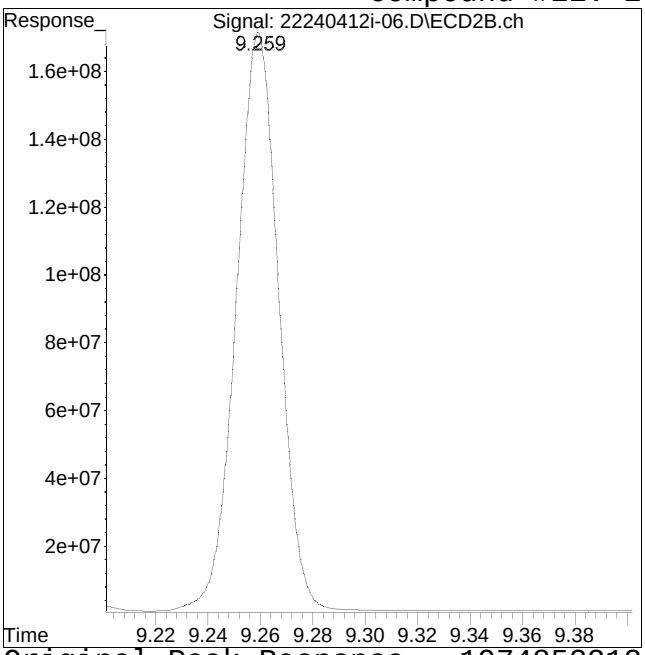


Original Peak Response = 2124744708 Manual Peak Response = 2103904068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

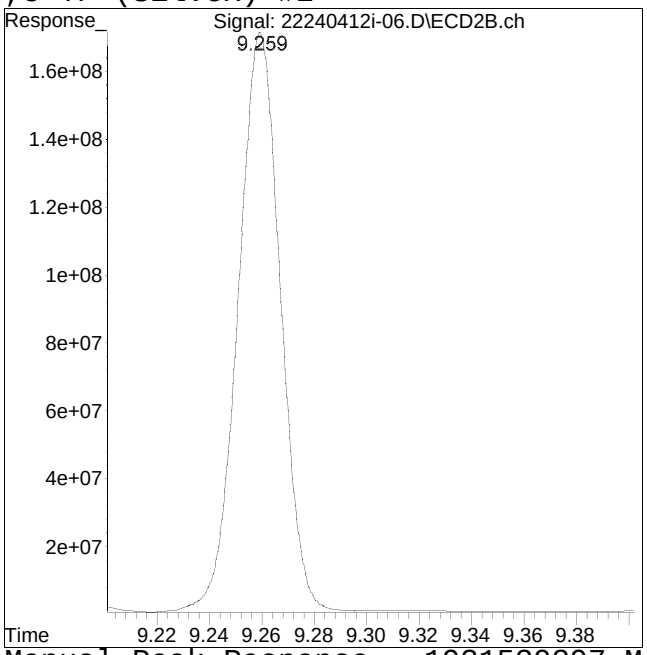
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 1974852212



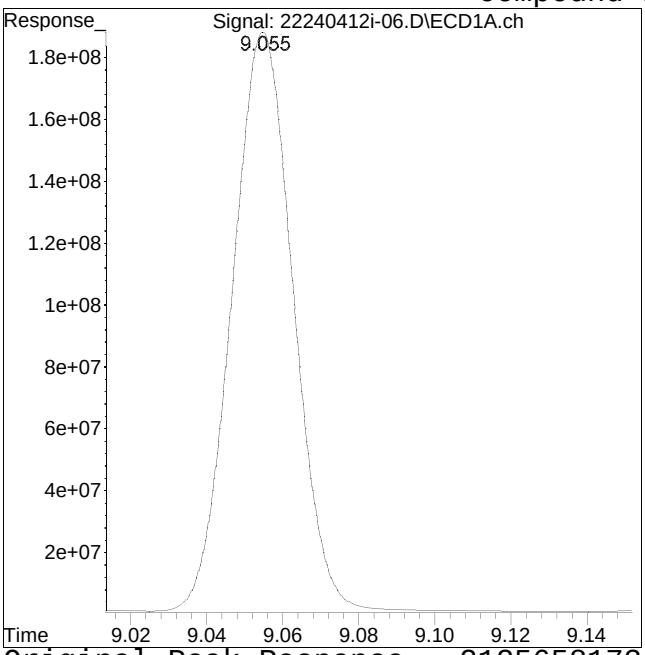
Manual Peak Response = 1931539397 M4

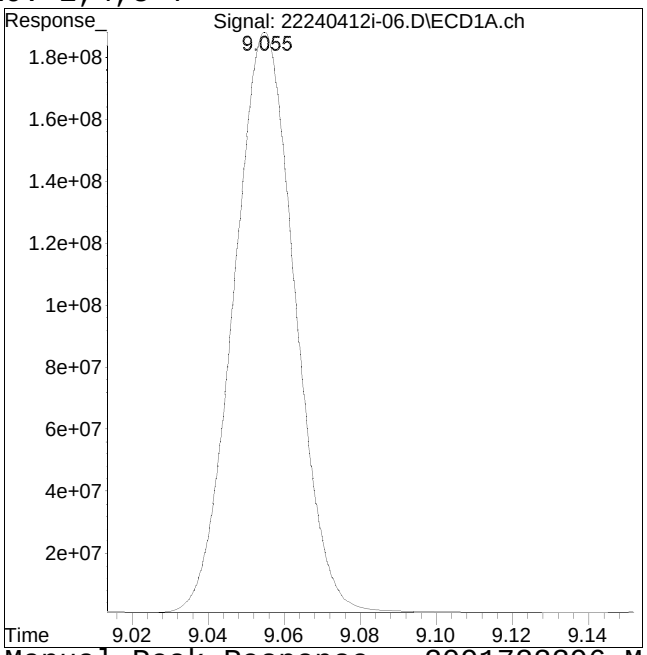
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #10: 2,4,5-T



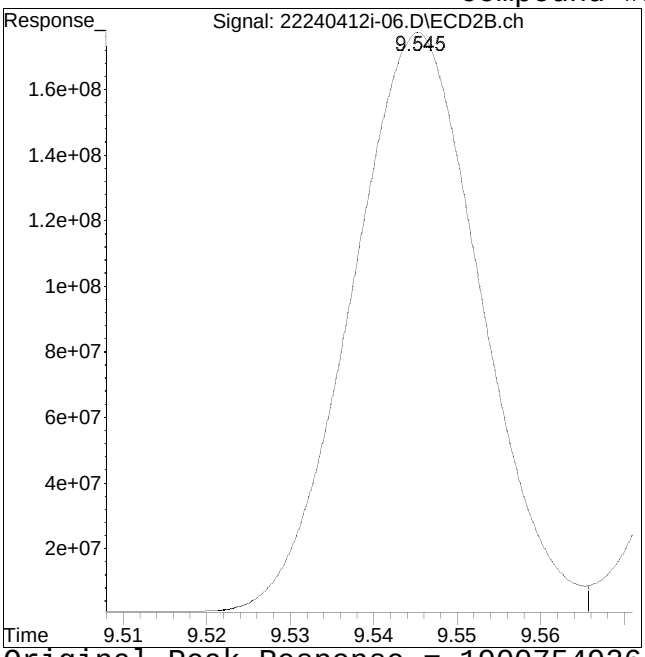


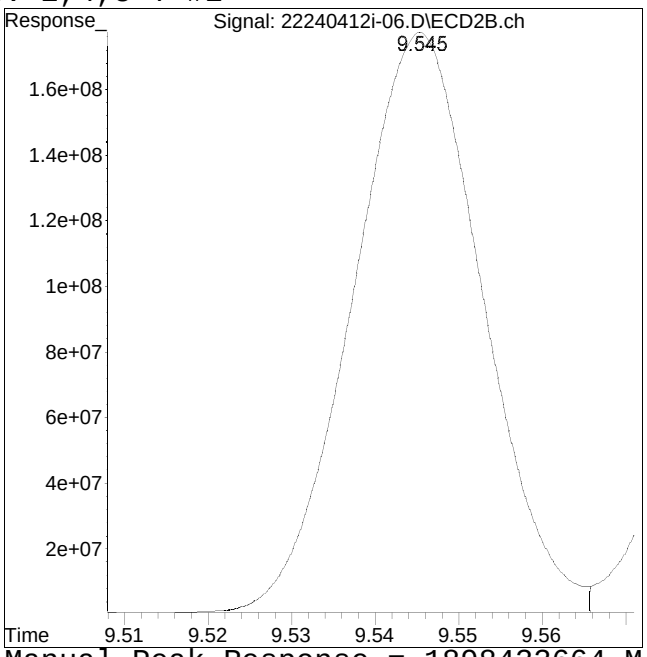
Original Peak Response = 2125658173 Manual Peak Response = 2091723396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #23: 2,4,5-T #2



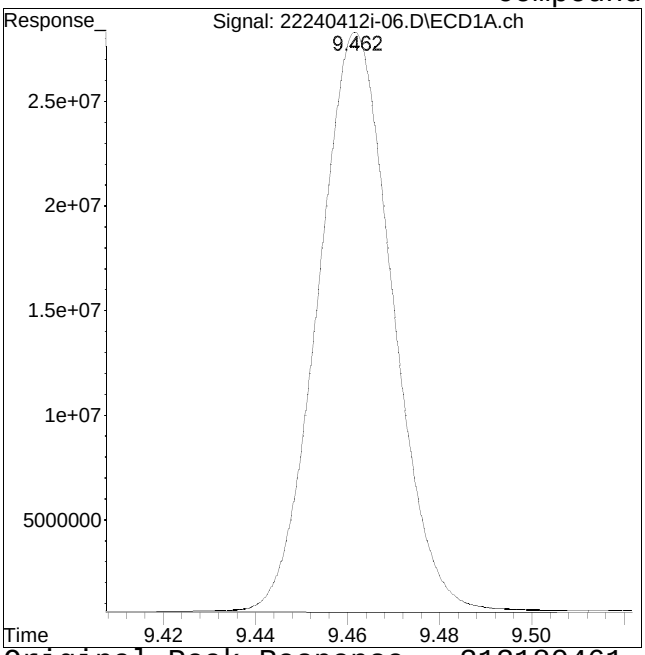


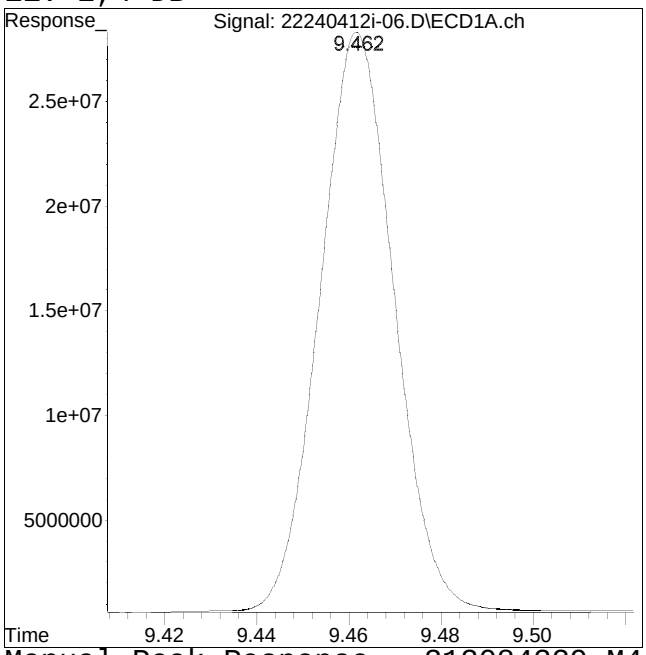
Original Peak Response = 1900754926 Manual Peak Response = 1898433664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #11: 2,4-DB



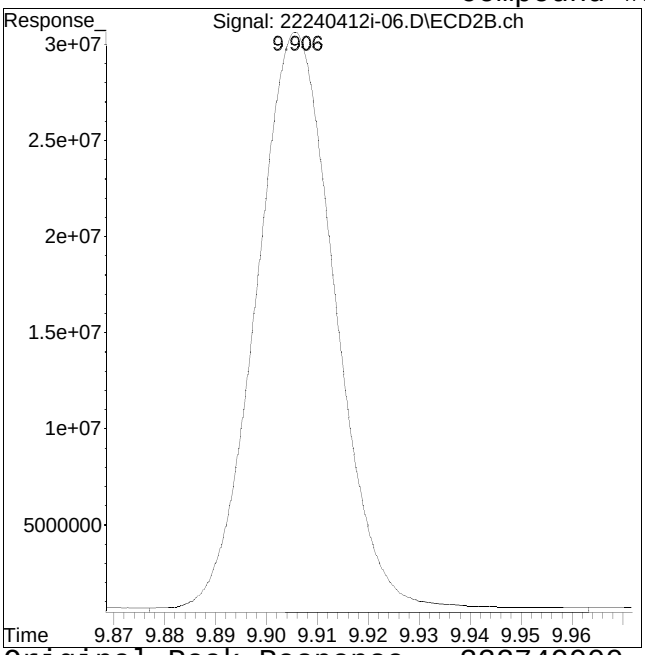


Original Peak Response = 313180461 Manual Peak Response = 312084329 M4
M4 = Poor automated baseline construction.

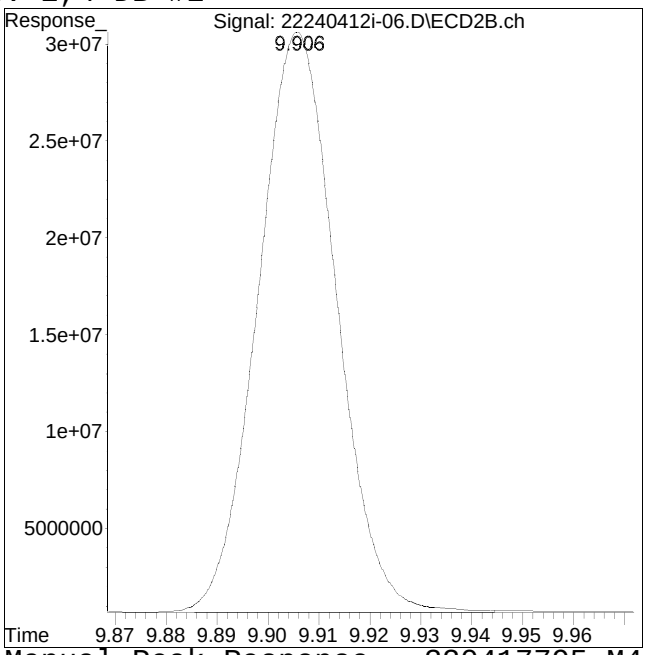
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #24: 2,4-DB #2



Original Peak Response = 332749900

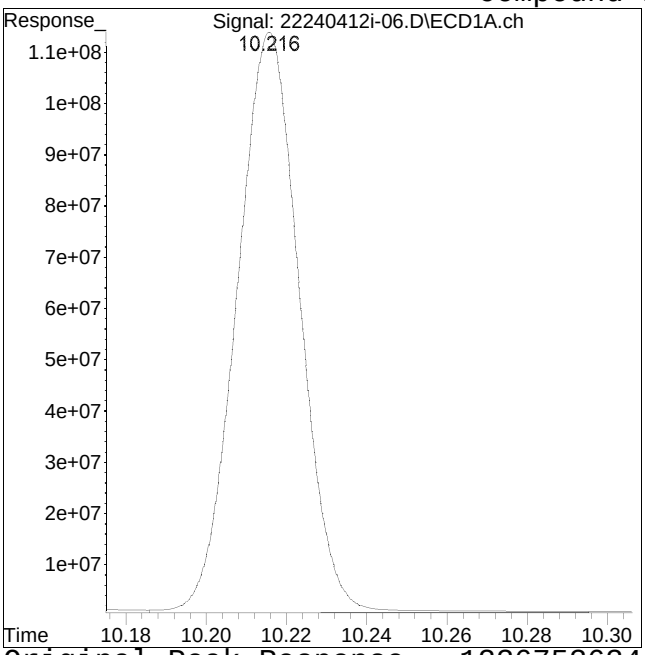


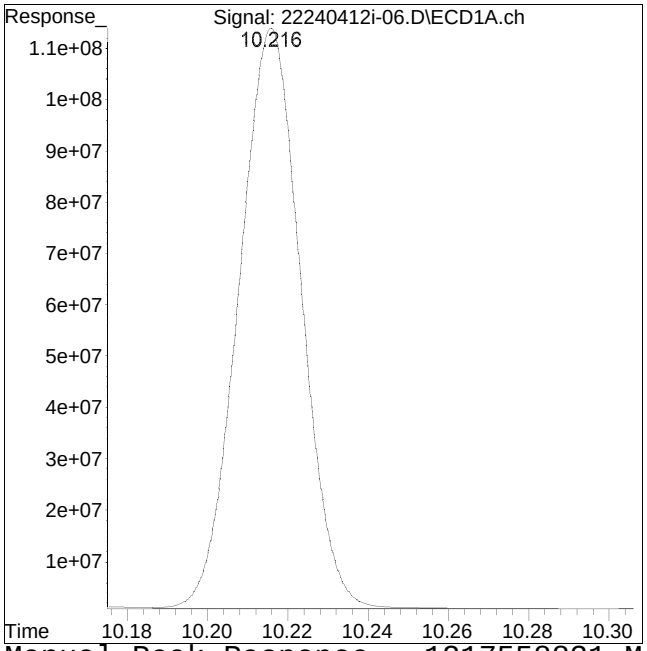
Manual Peak Response = 320417795 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #12: Dinoseb



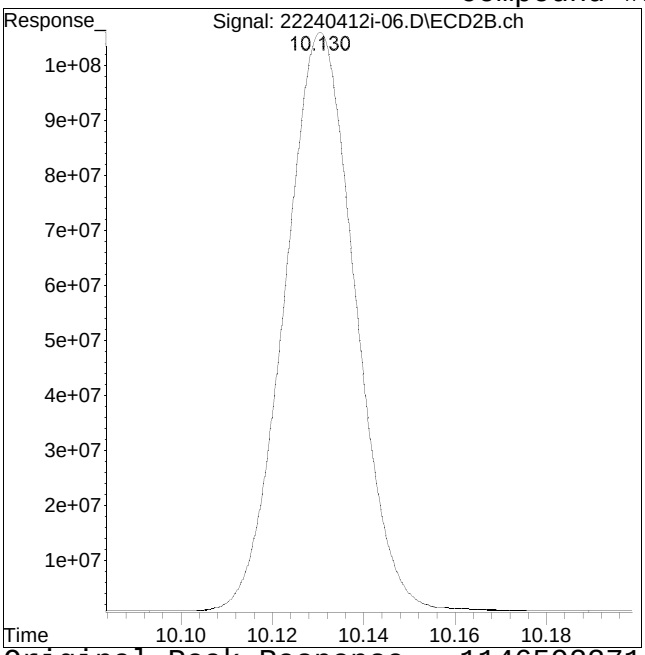


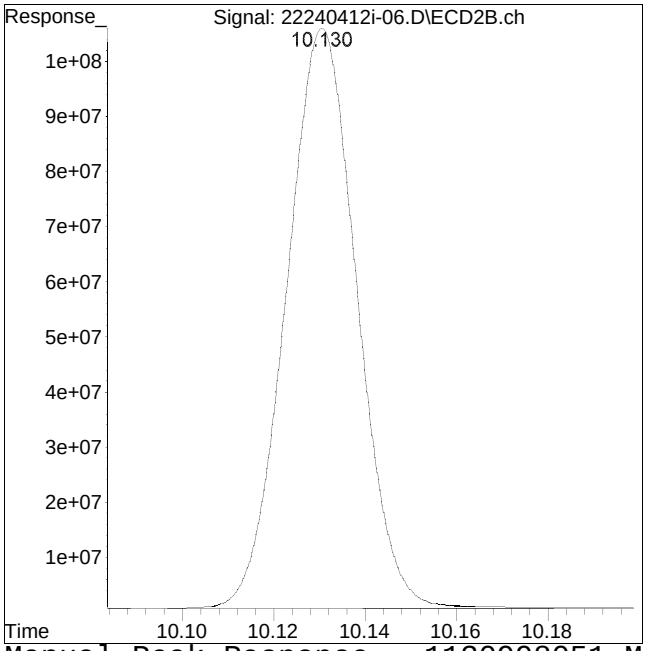
Original Peak Response = 1236753634 Manual Peak Response = 1217558831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #25: Dinoseb #2





Original Peak Response = 1146592271 Manual Peak Response = 1130998051 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.565	727.2E6	646.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	890.2E6	822.4E6	1.545M4	1.653M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	309.00%#	330.60%#
		Target Compounds						
2)	t	Dalapon	2.423	2.420	988.0E6	866.5E6	1.622	1.674
4)	t	Dicamba	7.212	7.677	2594.0E6	2566.6E6	1.577M4	1.727M4
5)	t	MCPP	7.416	7.791	282.9E6	337.2E6	180.867M4	183.135M3
6)	t	MCPA	7.563	8.017	429.9E6	493.6E6	161.013M4	166.099
7)	t	Dichloroprop	7.914	8.331	805.8E6	781.8E6	1.506M4	1.661M4
8)	t	2,4-D	8.121	8.602	1052.5E6	1016.8E6	1.562M4	1.737M4
9)	t	2,4,5-TP (Si	8.840	9.260	3962.8E6	3771.2E6	1.610M4	1.768M4
10)	t	2,4,5-T	9.056	9.547	4017.3E6	3728.1E6	1.662M4	1.797M4
11)	t	2,4-DB	9.462	9.907	591.1E6	625.5E6	1.617M4	1.797M4
12)	t	Dinoseb	10.216	10.132	2340.9E6	2234.9E6	1.665M4	1.817M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

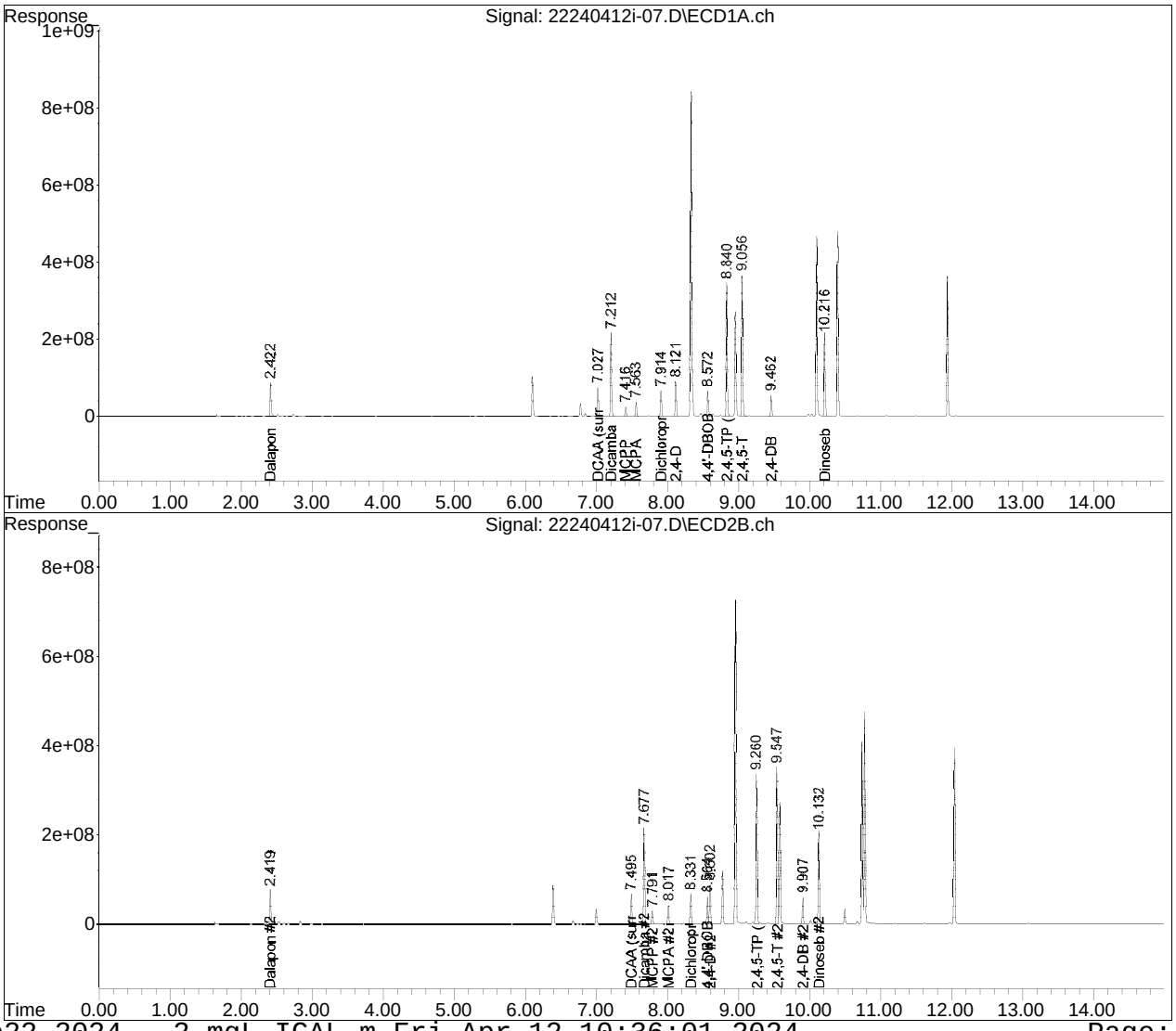
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

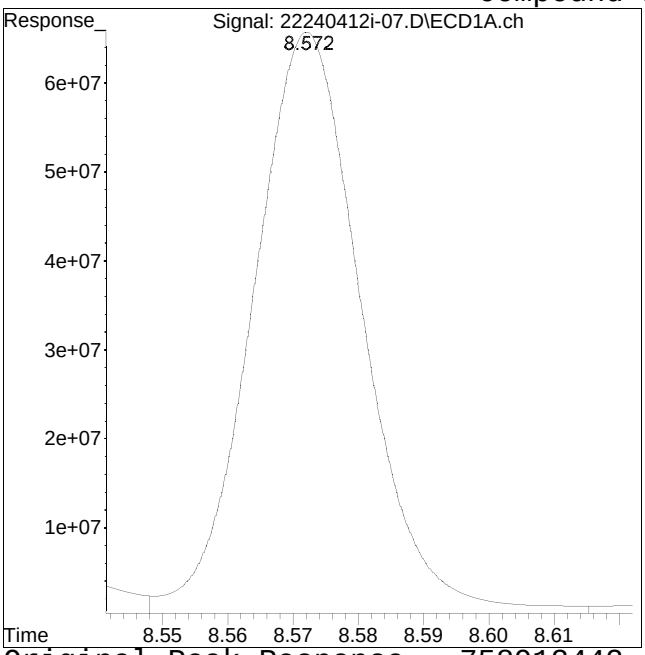
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

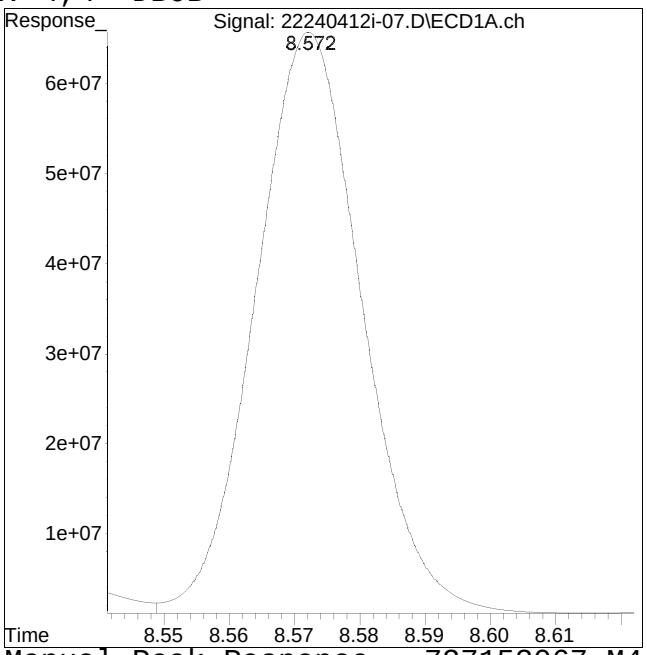


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #1: 4,4'-DBOB



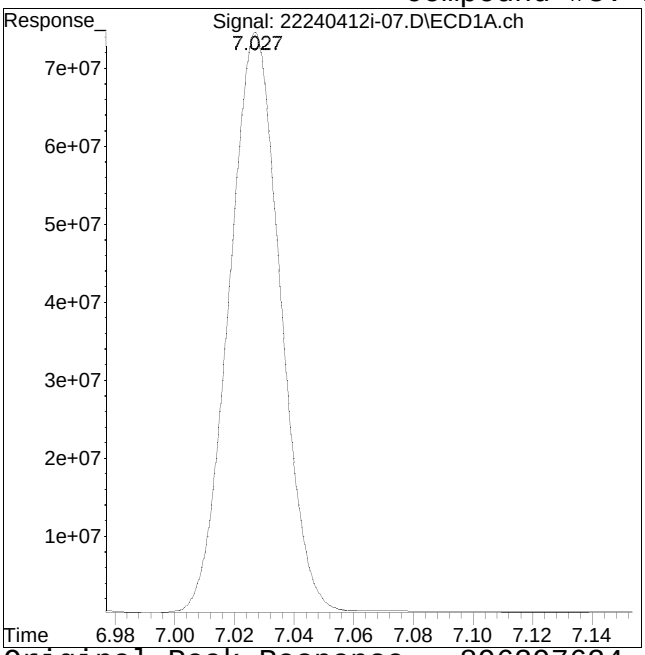


Original Peak Response = 758912442 Manual Peak Response = 727153067 M4
M4 = Poor automated baseline construction.

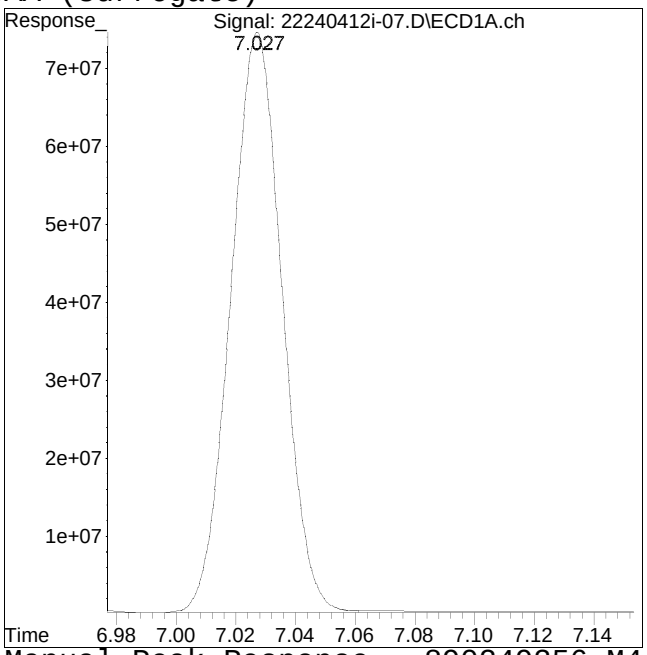
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 896397624

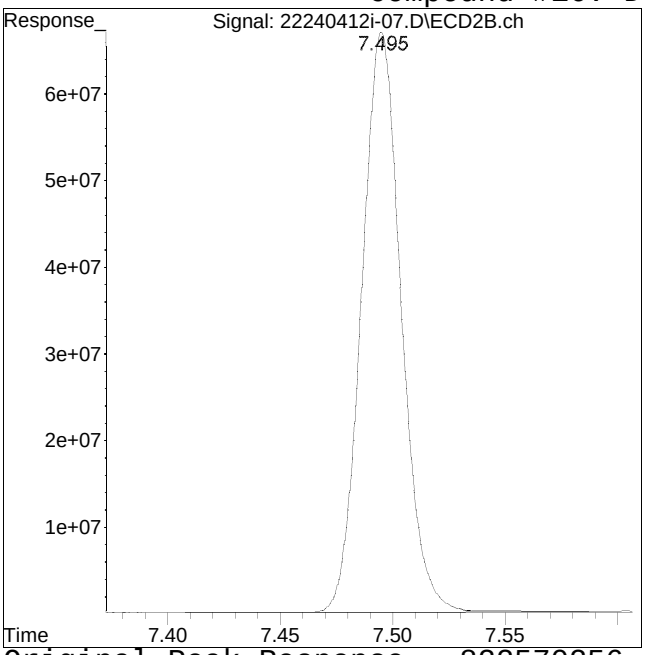


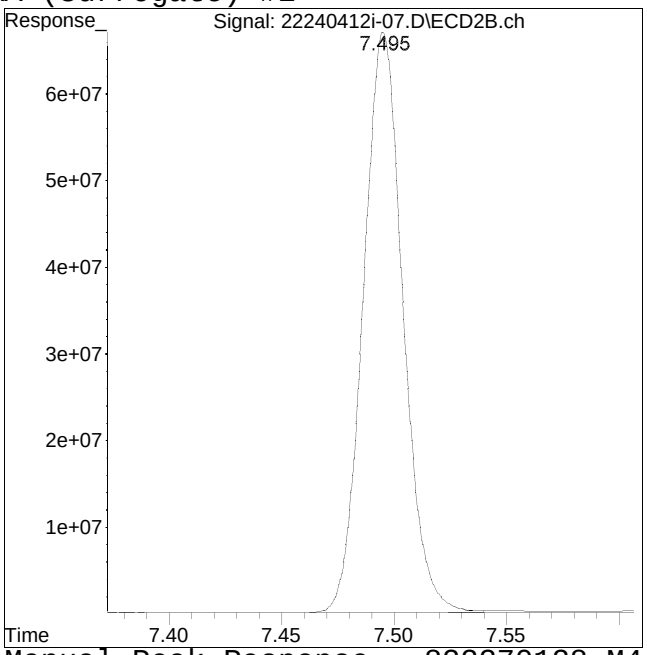
Manual Peak Response = 890249356 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #16: DCAA (surrogate) #2



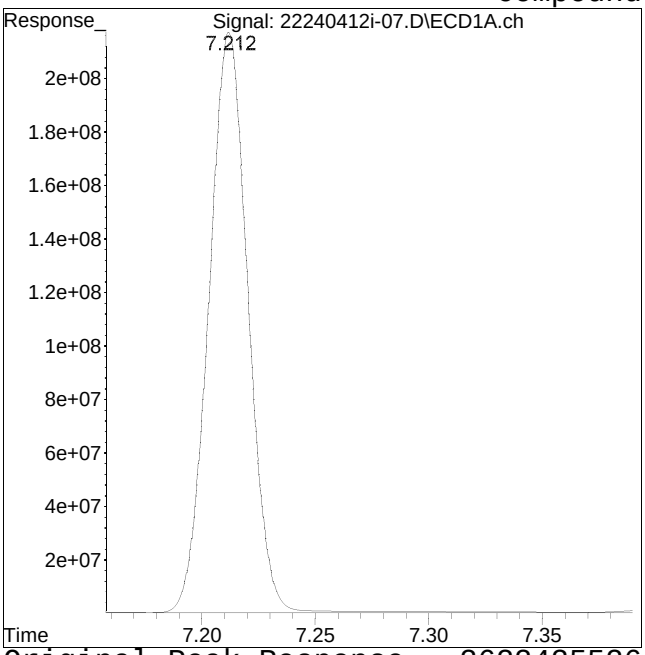


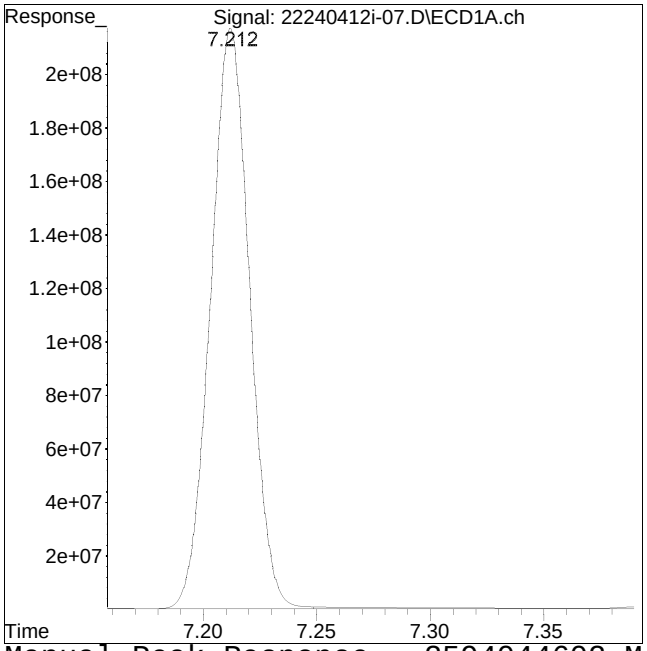
Original Peak Response = 822570256 Manual Peak Response = 822370128 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #4: Dicamba



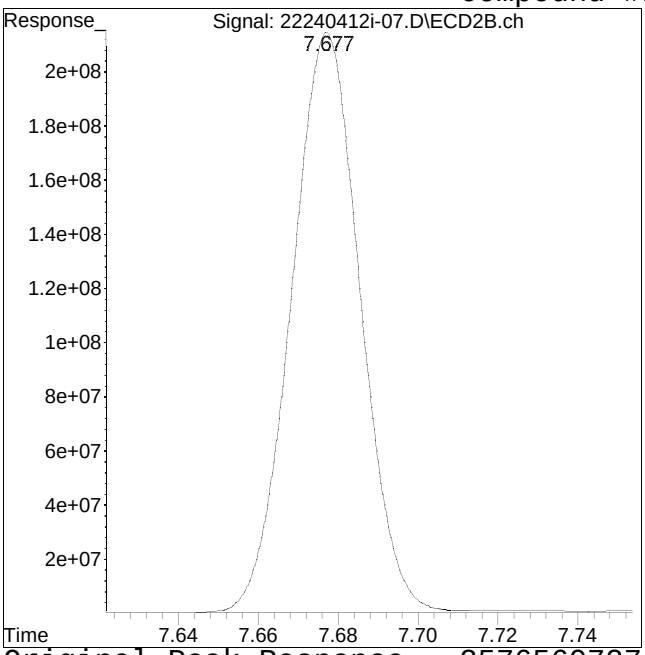


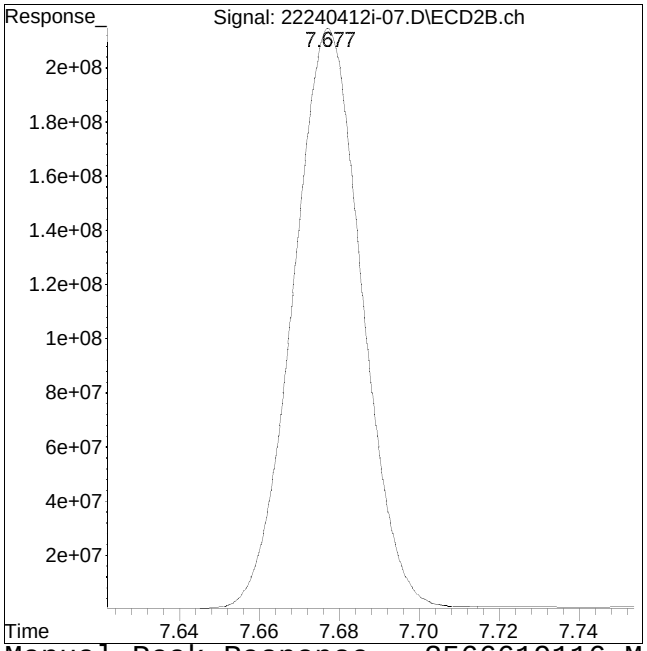
Original Peak Response = 2622425526 Manual Peak Response = 2594044602 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #17: Dicamba #2



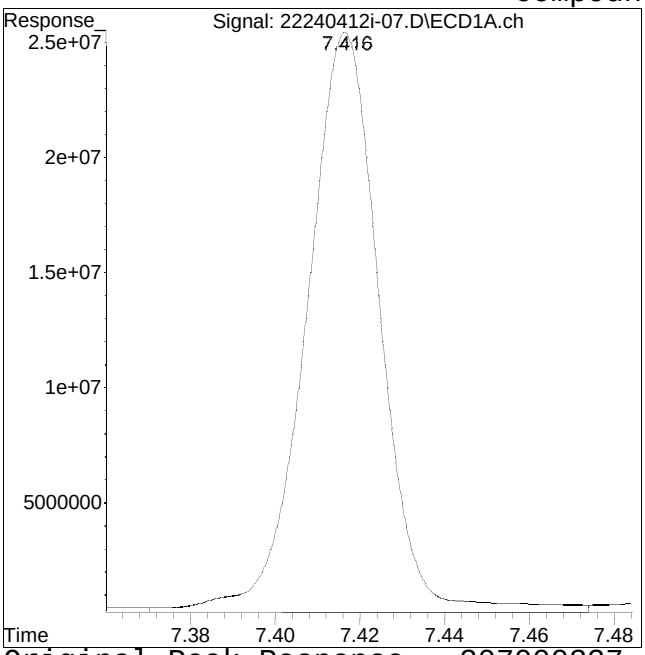


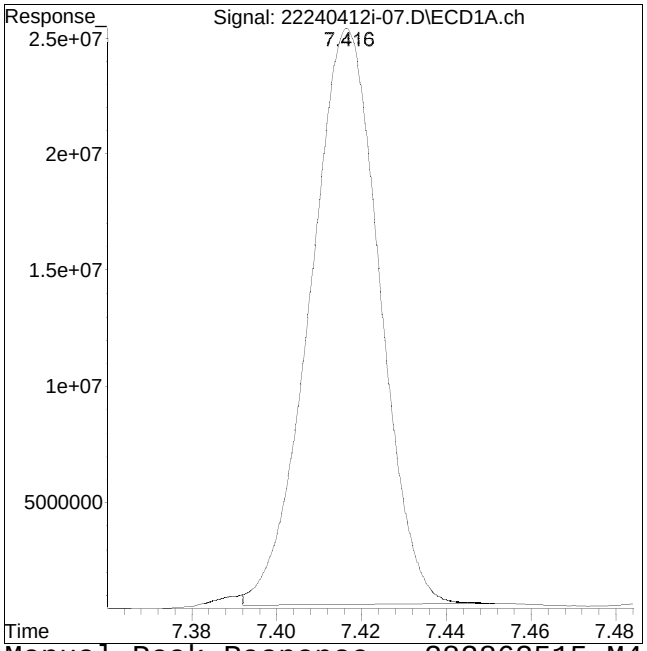
Original Peak Response = 2576569727 Manual Peak Response = 2566619116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #5: MCPP



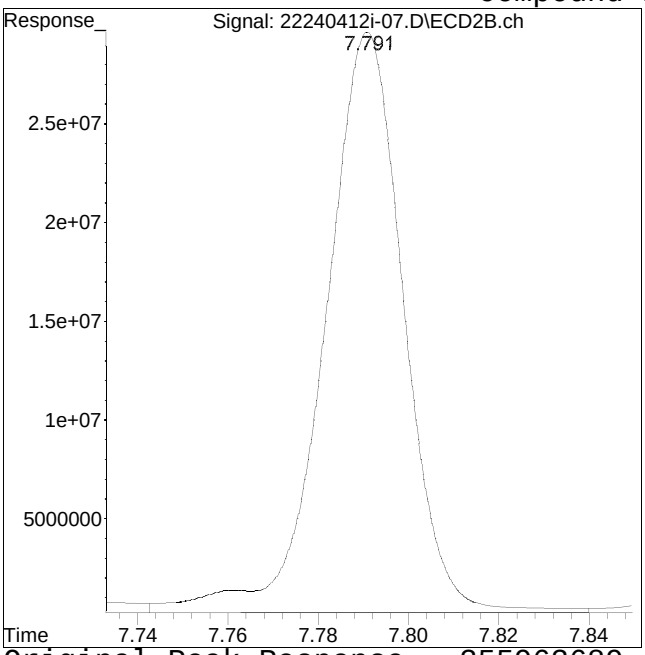


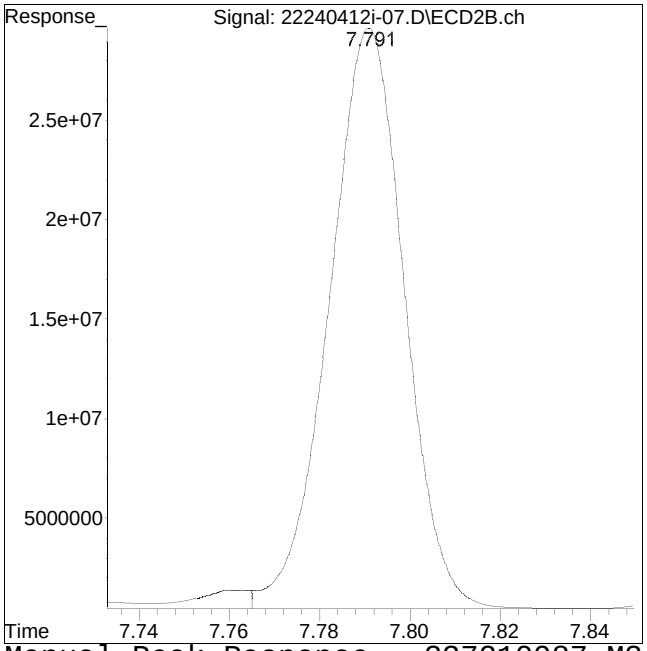
Original Peak Response = 307000337 Manual Peak Response = 282863515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #18: MCPP #2



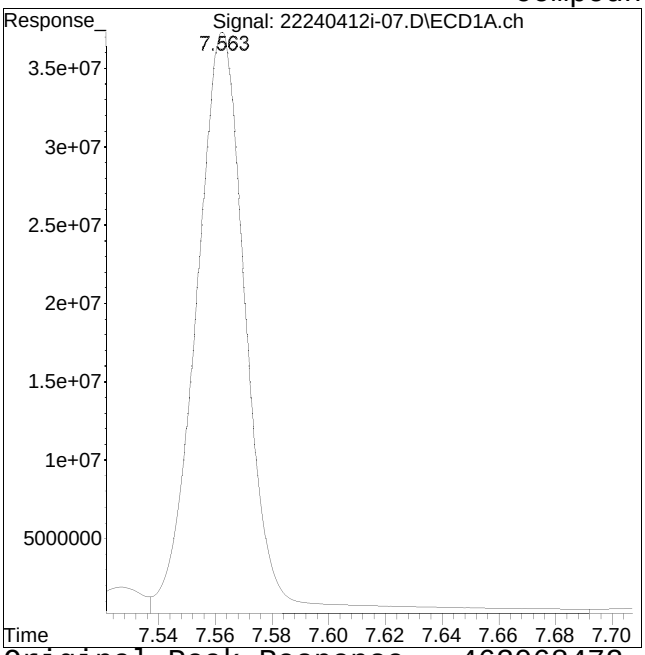


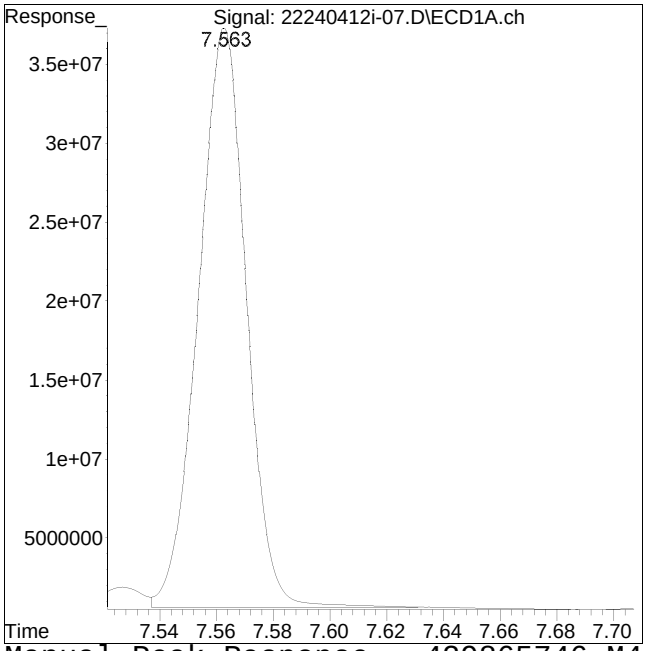
Original Peak Response = 355963689 Manual Peak Response = 337210987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #6: MCPA



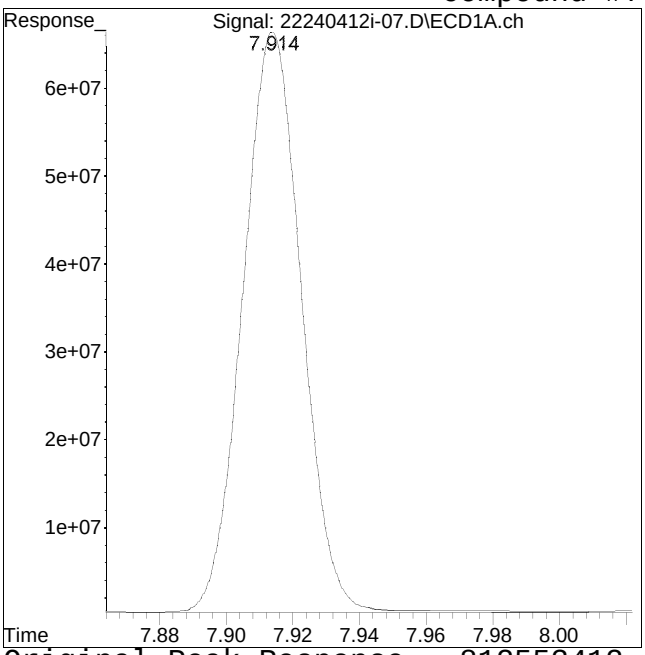


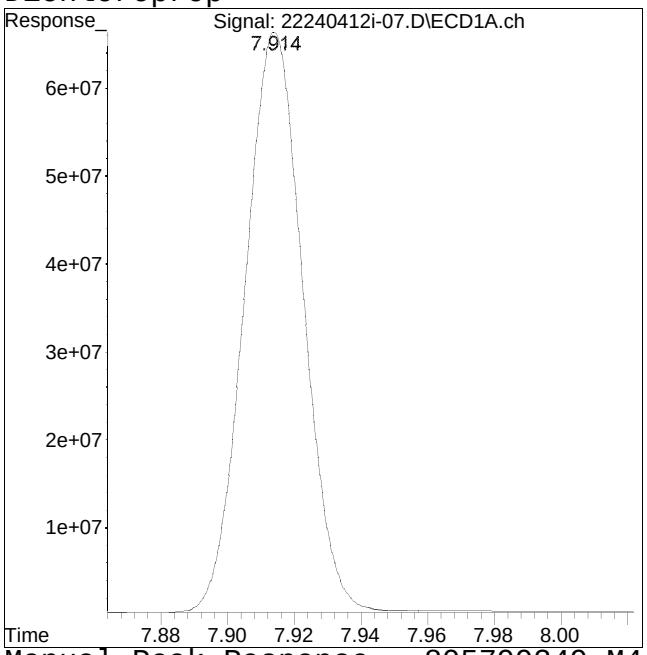
Original Peak Response = 463068472 Manual Peak Response = 429865746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #7: Dichloroprop



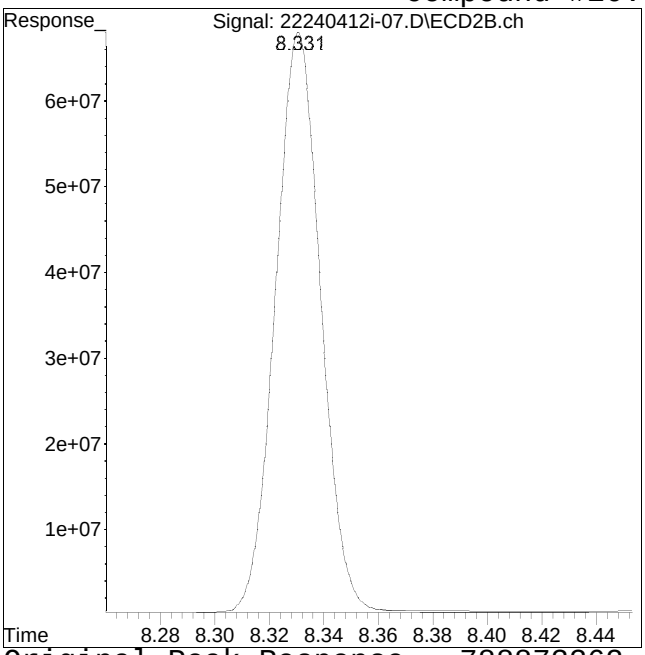


Original Peak Response = 812553412 Manual Peak Response = 805799349 M4
M4 = Poor automated baseline construction.

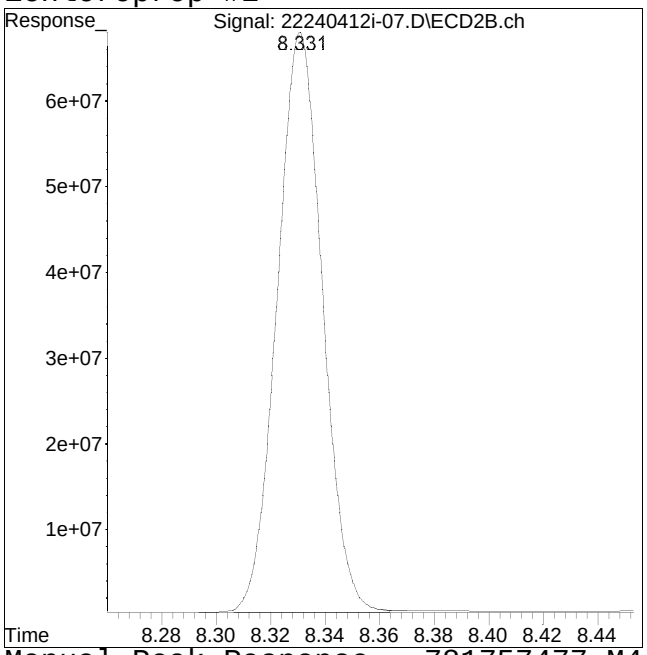
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #20: Dichloroprop #2



Original Peak Response = 788873362

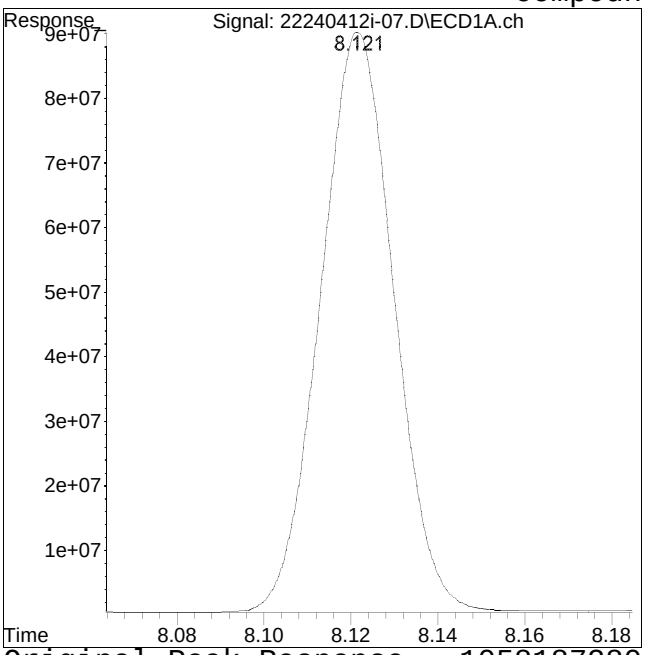


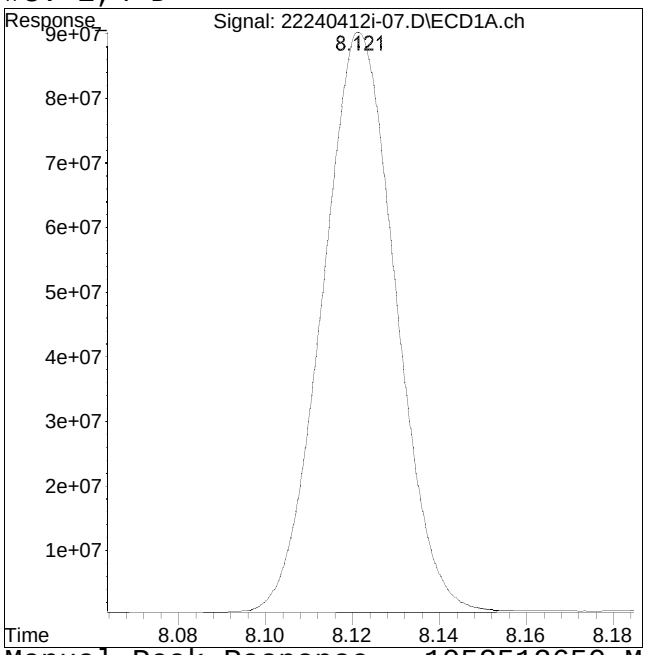
Manual Peak Response = 781757477 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #8: 2,4-D



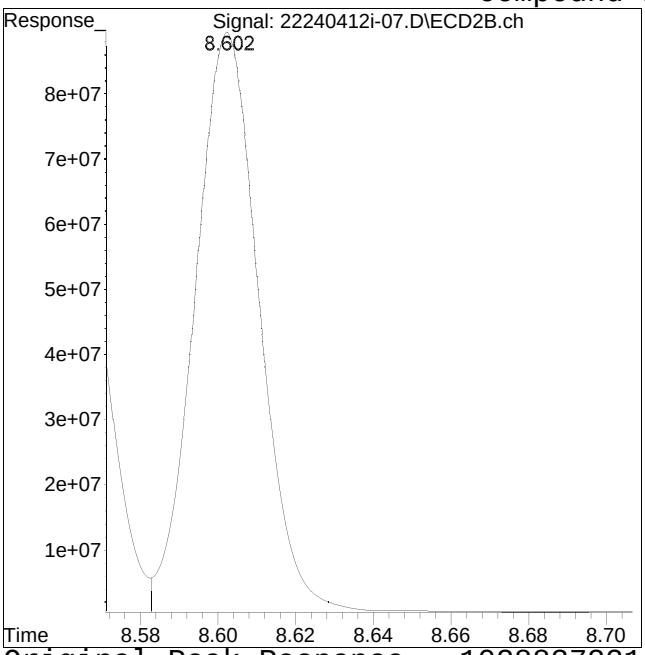


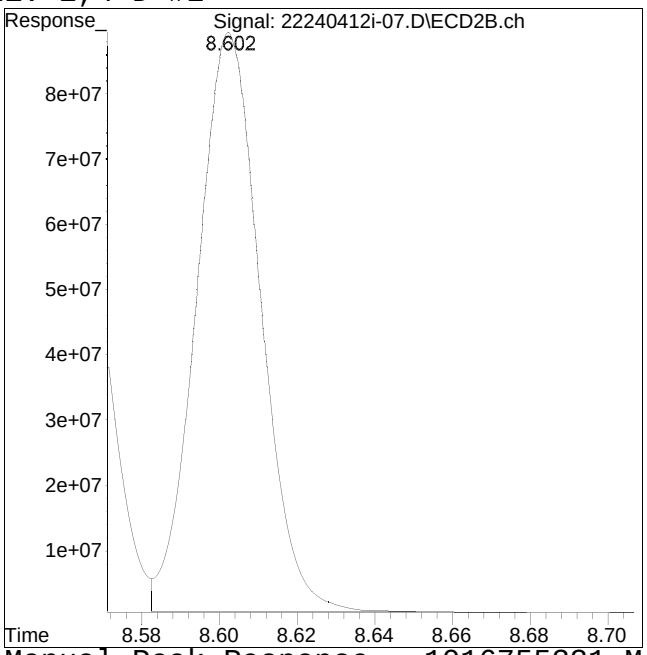
Original Peak Response = 1058187280 Manual Peak Response = 1052512650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #21: 2,4-D #2



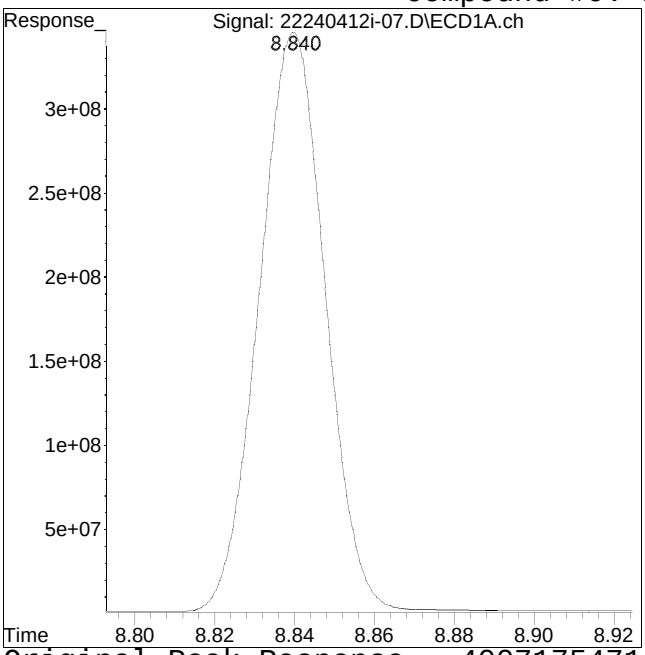


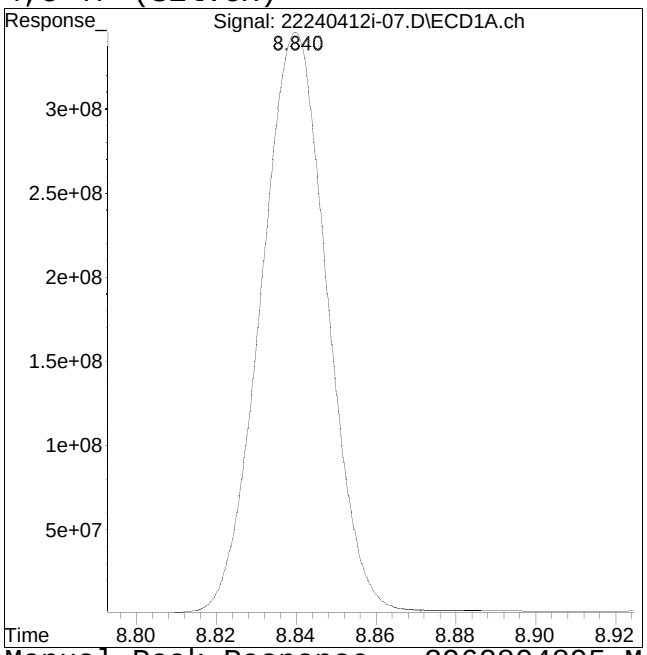
Original Peak Response = 1028837221 Manual Peak Response = 1016755331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #9: 2,4,5-TP (Silvex)



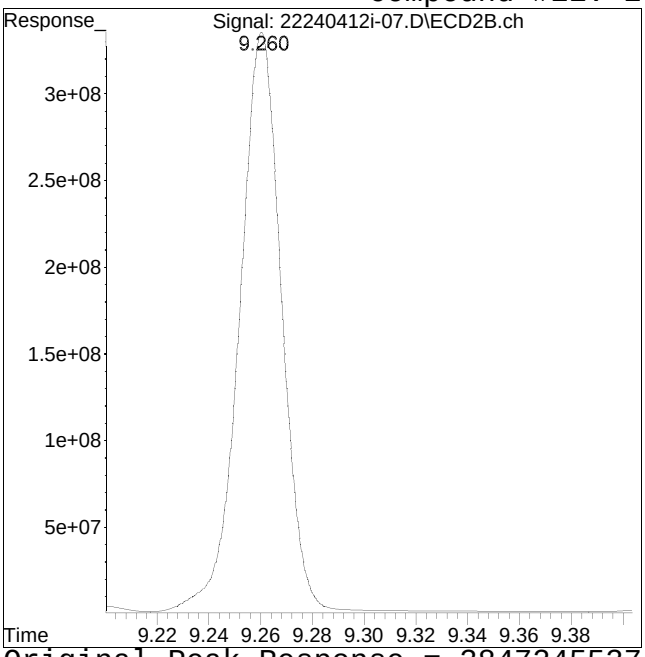


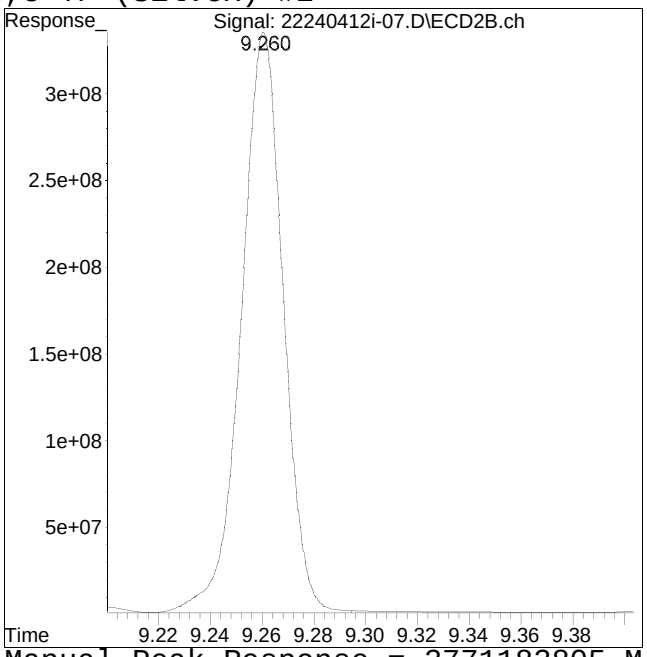
Original Peak Response = 4007175471 Manual Peak Response = 3962804895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #22: 2,4,5-TP (Silvex) #2



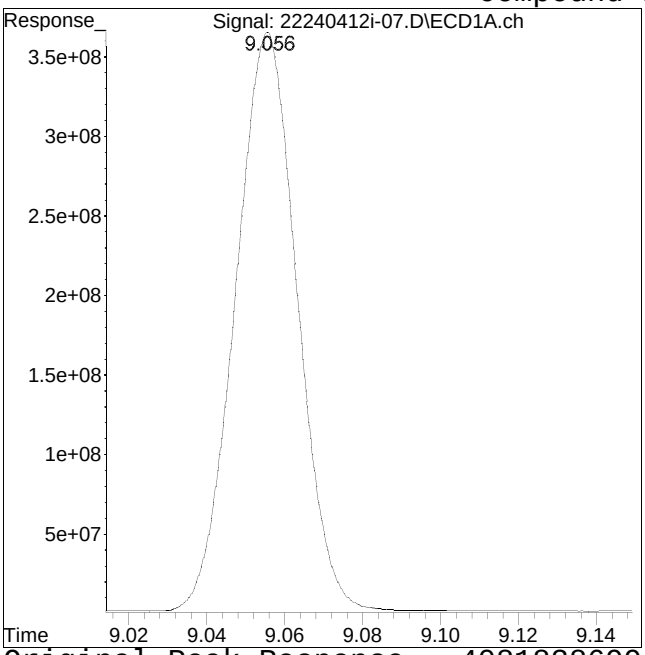


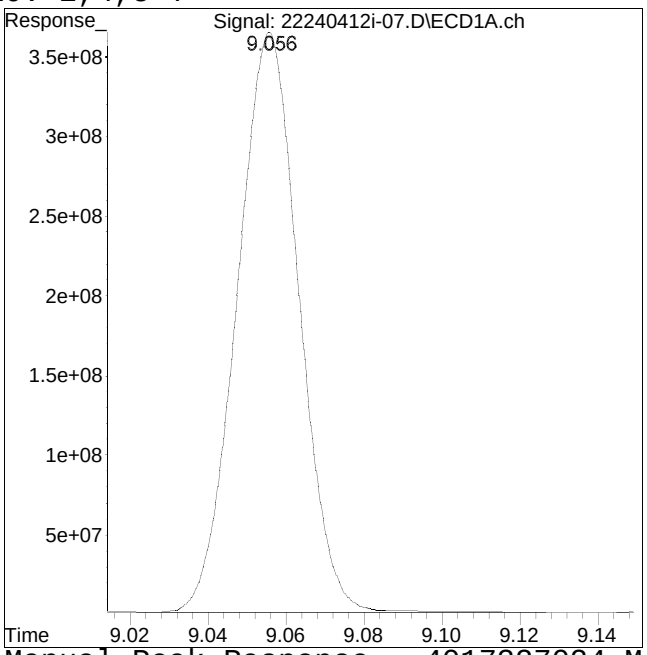
Original Peak Response = 3847245537 Manual Peak Response = 3771183805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #10: 2,4,5-T



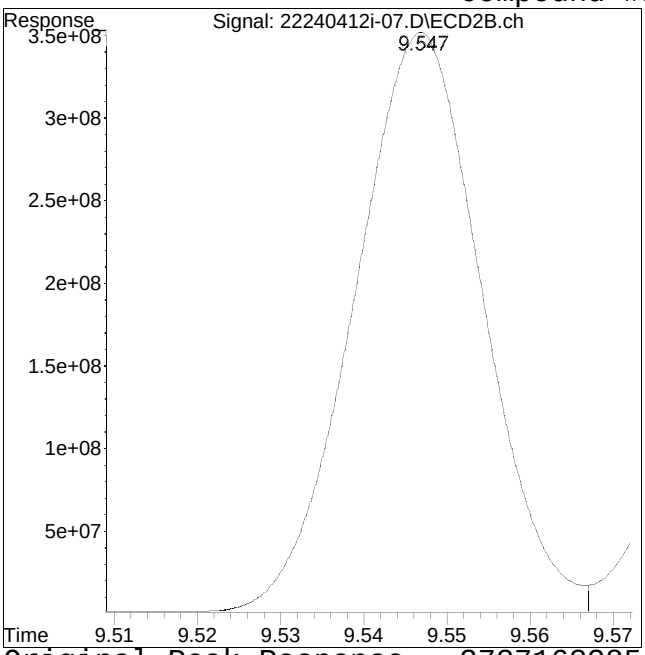


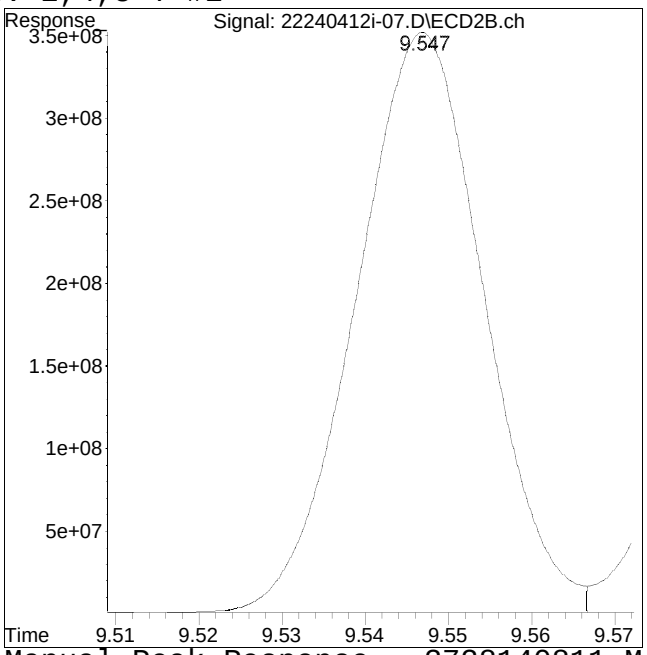
Original Peak Response = 4081838699 Manual Peak Response = 4017327024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #23: 2,4,5-T #2



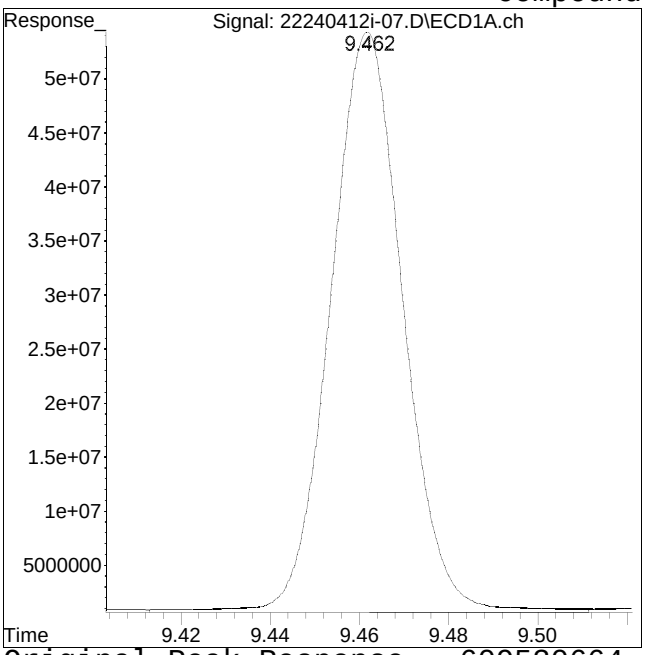


Original Peak Response = 3737163385 Manual Peak Response = 3728140811 M4
M4 = Poor automated baseline construction.

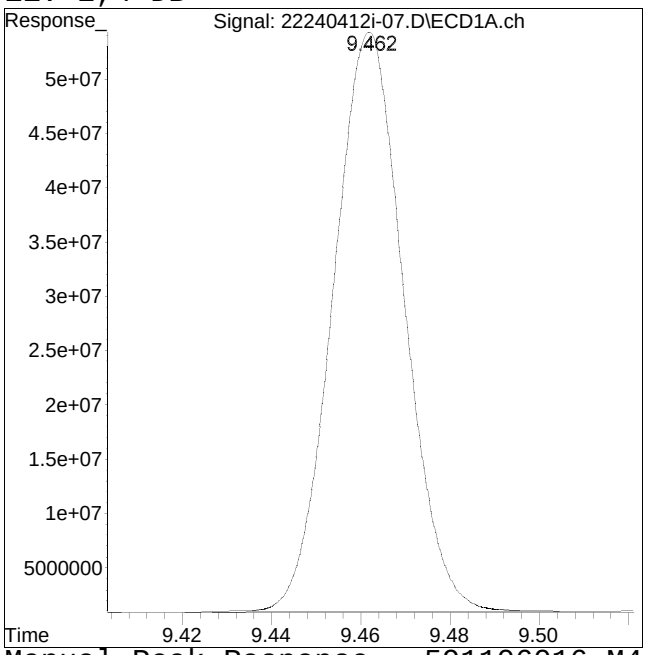
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #11: 2,4-DB



Original Peak Response = 609530664

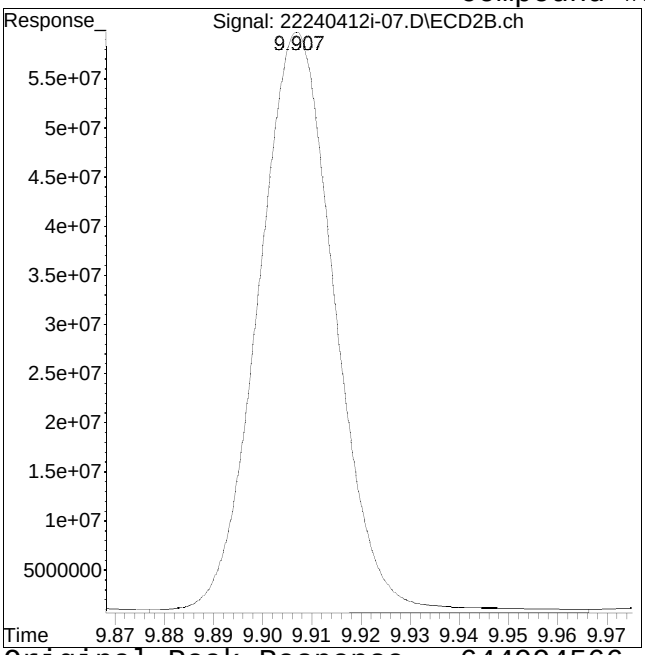


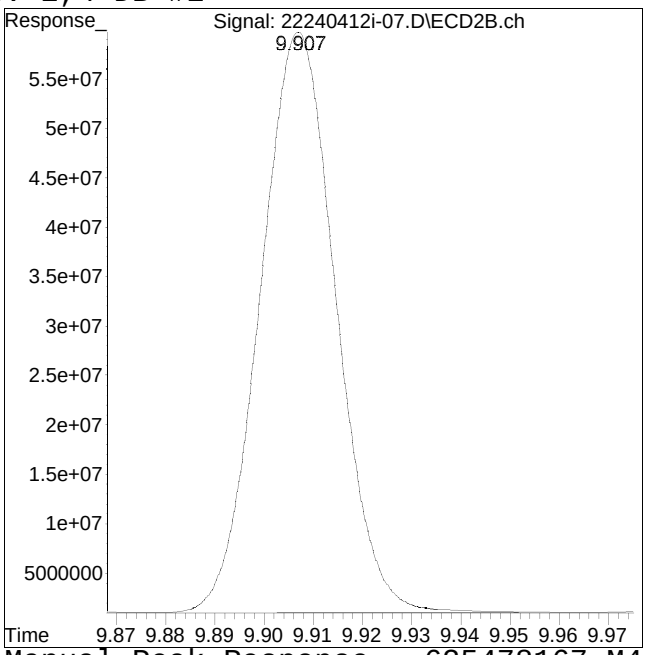
Manual Peak Response = 591106016 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #24: 2,4-DB #2



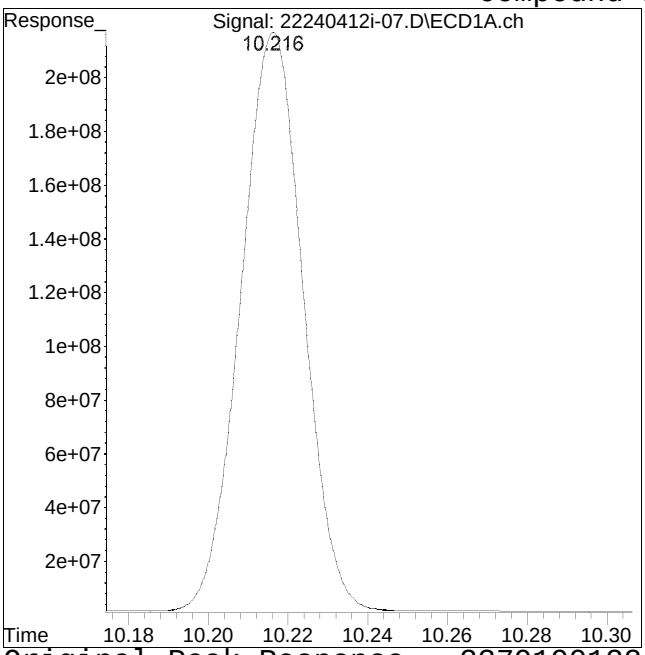


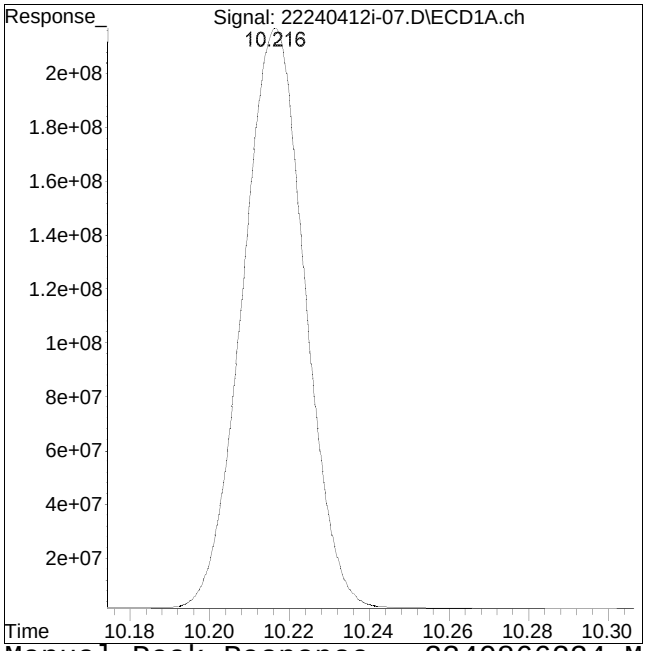
Original Peak Response = 644994566 Manual Peak Response = 625478167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #12: Dinoseb



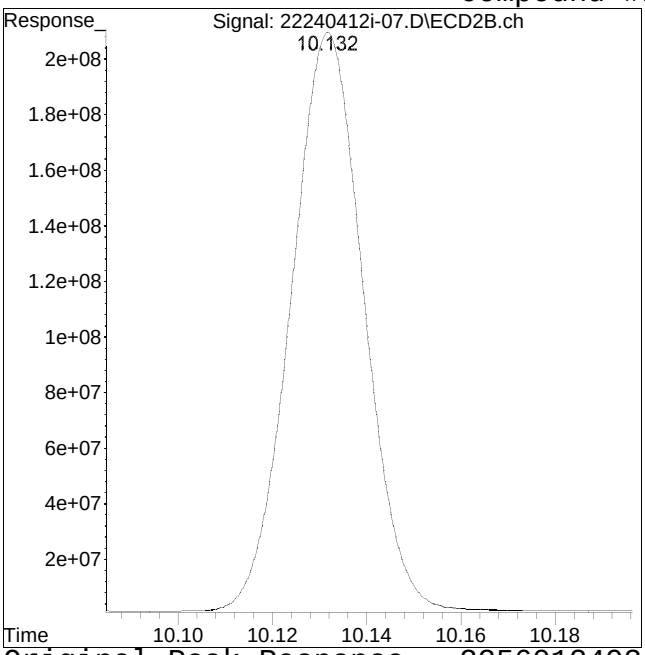


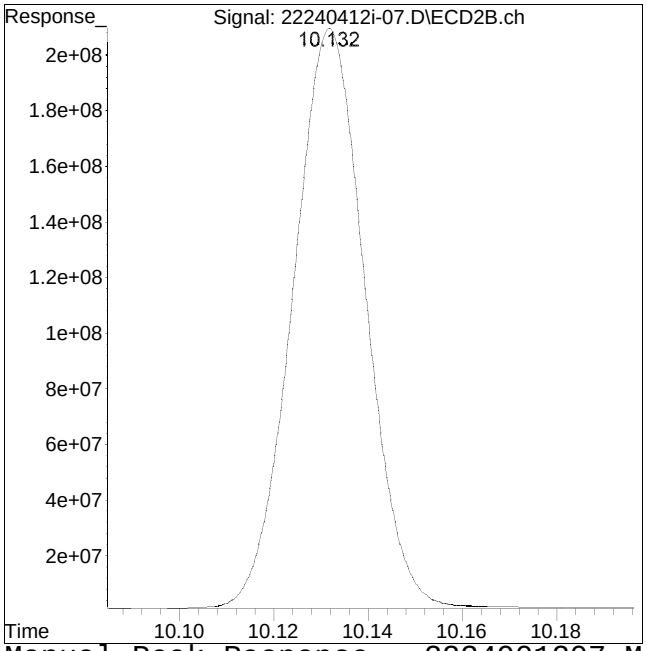
Original Peak Response = 2379199122 Manual Peak Response = 2340866234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #25: Dinoseb #2





Original Peak Response = 2256012493 Manual Peak Response = 2234901207 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	1.000	1.000	0.0	94	0.00
2	t	Dalapon	0.211	0.196	7.1	85	0.00
3	s	DCAA (surrogate)	0.206	0.200	2.9	87	0.00
4	t	Dicamba	0.589	0.576	2.2	87	0.00
5	t	MCPP	0.00052	0.00055	-5.8	95	0.00
6	t	MCPA	0.00097	0.00099	-2.1	91	0.00
7	t	Dichloroprop	0.193	0.207	-7.3	94	0.00
8	t	2,4-D	0.240	0.235	2.1	87	0.00
9	t	2,4,5-TP (Silvex)	0.868	0.842	3.0	86	0.00
10	t	2,4,5-T	0.853	0.840	1.5	88	0.00
11	t	2,4-DB	0.132	0.130	1.5	87	0.00
12	t	Dinoseb	0.493	0.485	1.6	88	0.00

Signal #2

1	i	4,4'-DBOB	1.000	1.000	0.0	92	0.00
2	t	Dalapon	0.197	0.193	2.0	88	0.00
3	s	DCAA (surrogate)	0.203	0.214	-5.4	93	0.00
4	t	Dicamba	0.594	0.597	-0.5	90	0.00
5	t	MCPP	0.00074	0.00075	-1.4	93	0.00
6	t	MCPA	0.00124	0.00126	-1.6	91	0.00
7	t	Dichloroprop	0.192	0.215	-12.0	99	0.00
8	t	2,4-D	0.237	0.244	-3.0	93	0.00
9	t	2,4,5-TP (Silvex)	0.856	0.860	-0.5	89	0.00
10	t	2,4,5-T	0.831	0.853	-2.6	92	0.00
11	t	2,4-DB	0.141	0.139	1.4	89	0.00
12	t	Dinoseb	0.491	0.506	-3.1	93	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	710.4E6	646.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.026	7.495	106.7E6	103.8E6	0.183M4	0.198M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	36.60%	39.60%
		Target Compounds						
2)	t	Dalapon	2.422	2.418	101.5E6	90678734	0.169	0.178M3
4)	t	Dicamba	7.211	7.676	307.7E6	290.1E6	0.184M4	0.189M3
5)	t	MCPP	7.413	7.788	29475629	36477309	19.908M4	19.176M4
6)	t	MCPA	7.559	8.013	52248199	60587732	19.021M4	18.909M4
7)	t	Dichloroprop	7.914	8.330	110.5E6	104.6E6	0.201	0.211M4
8)	t	2,4-D	8.122	8.602	125.3E6	118.5E6	0.184M4	0.193M4
9)	t	2,4,5-TP (Si	8.839	9.260	454.6E6	422.4E6	0.184M4	0.191M4
10)	t	2,4,5-T	9.055	9.546	453.6E6	418.6E6	0.187M4	0.195
11)	t	2,4-DB	9.462	9.906	70895673	69153610	0.189M4	0.190M4
12)	t	Dinoseb	10.216	10.131	261.6E6	248.6E6	0.187M4	0.196

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

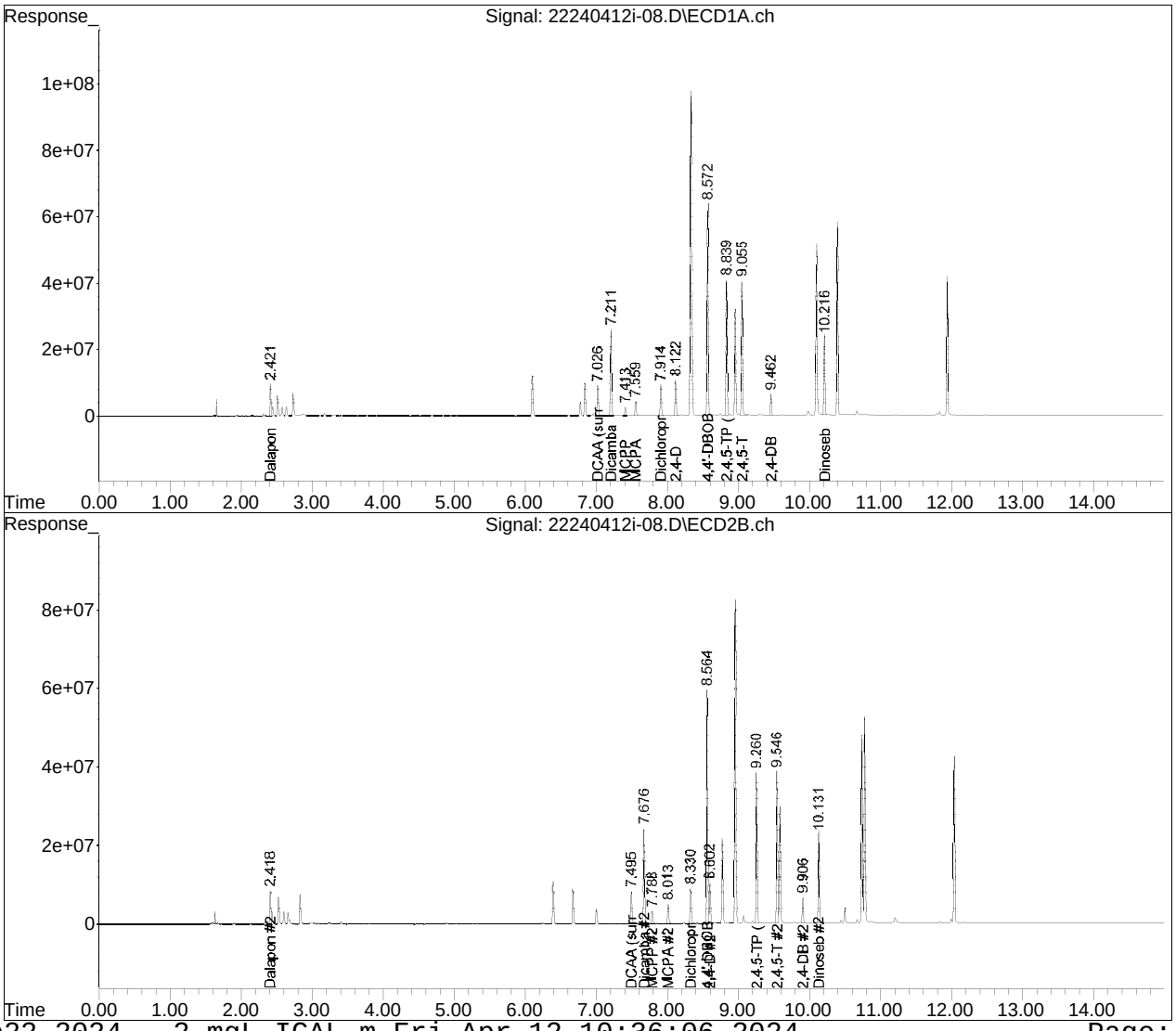
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

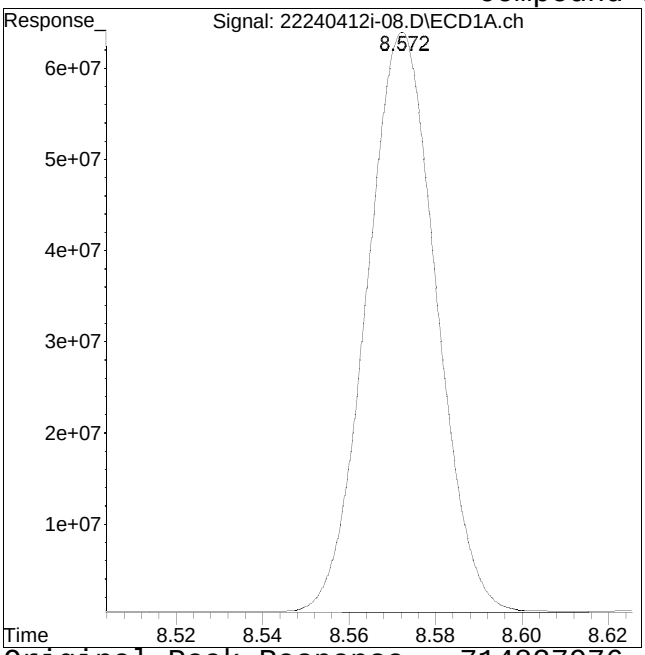
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



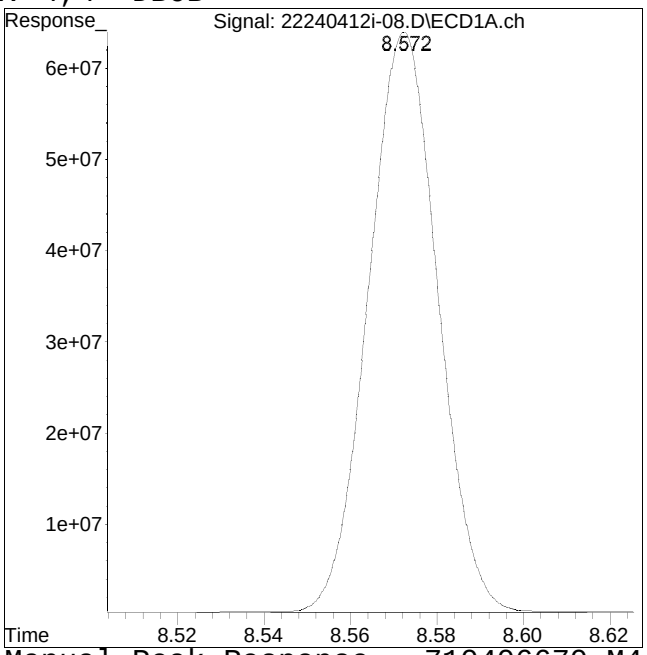
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #1: 4,4'-DBOB



Original Peak Response = 714827976

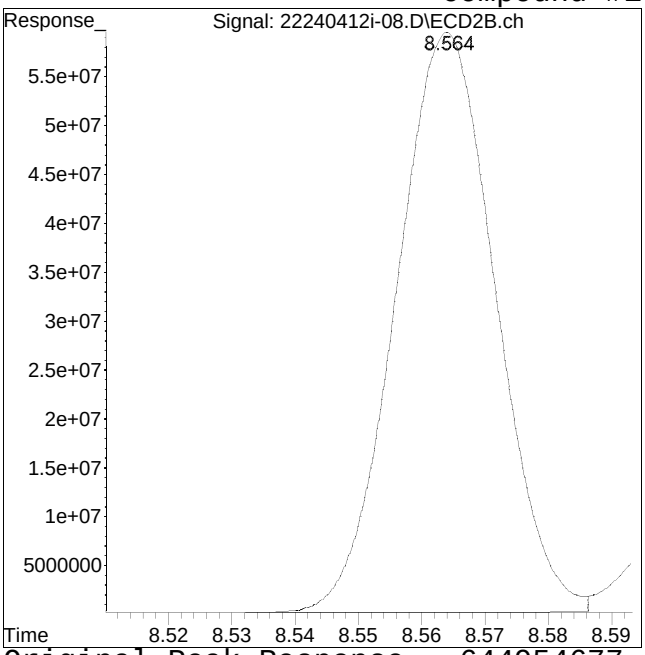


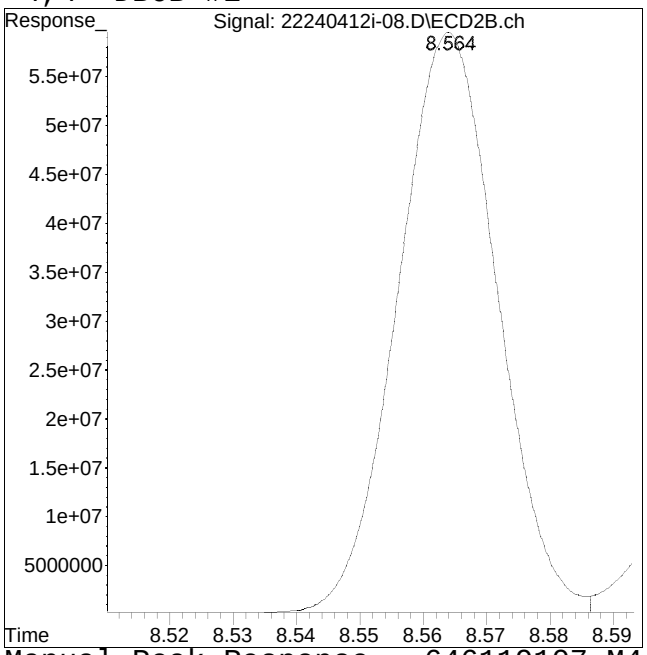
Manual Peak Response = 710406670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #14: 4,4'-DBOB #2



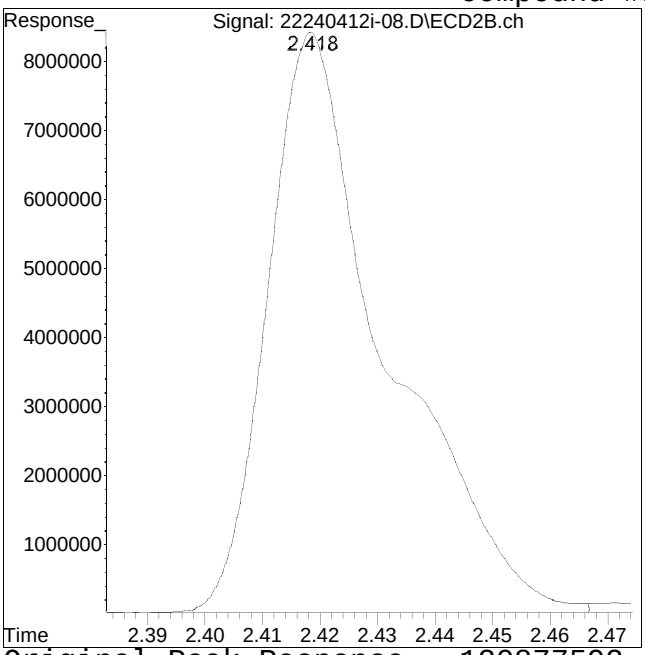


Original Peak Response = 644954677 Manual Peak Response = 646119107 M4
M4 = Poor automated baseline construction.

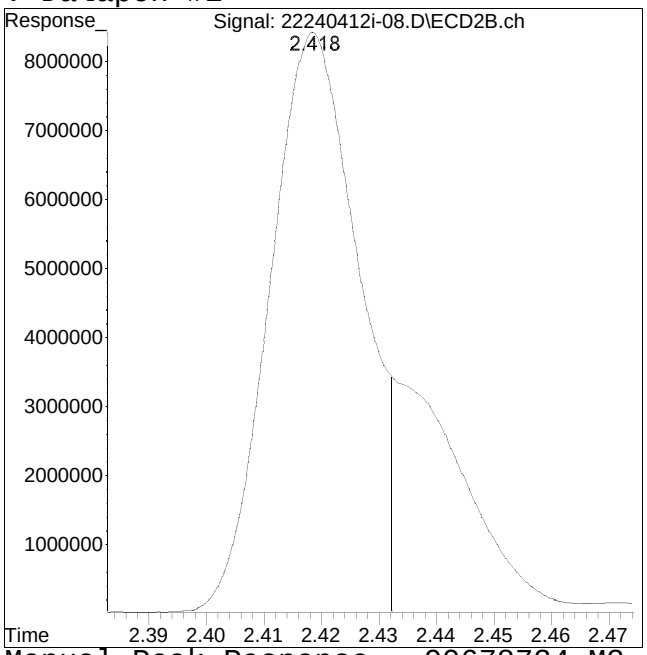
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #15: Dalapon #2



Original Peak Response = 120877592



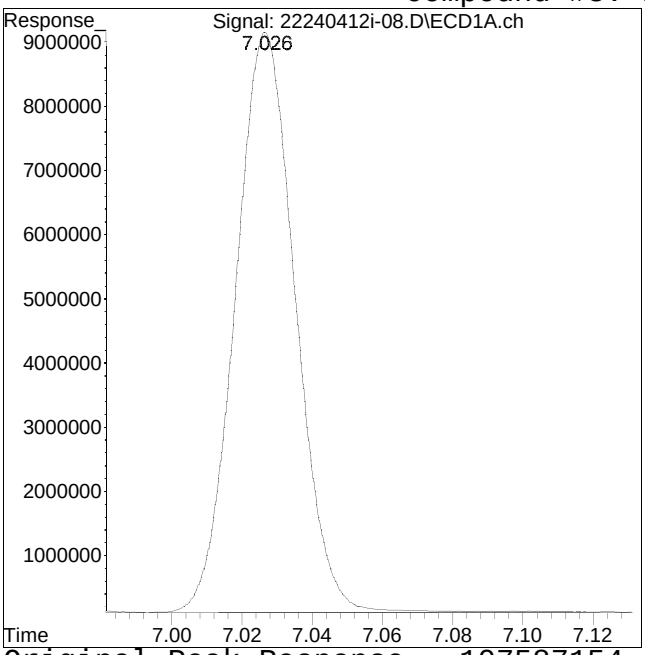
Manual Peak Response = 90678734 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

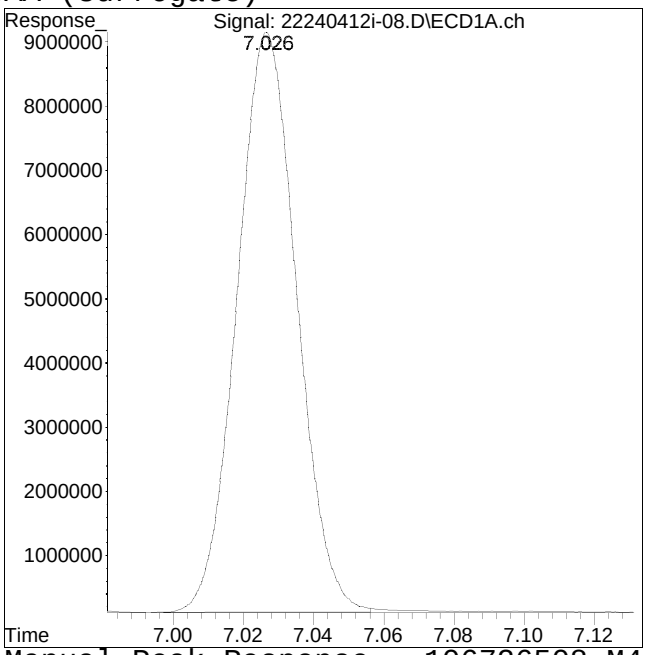
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #3: DCAA (surrogate)



Original Peak Response = 107587154

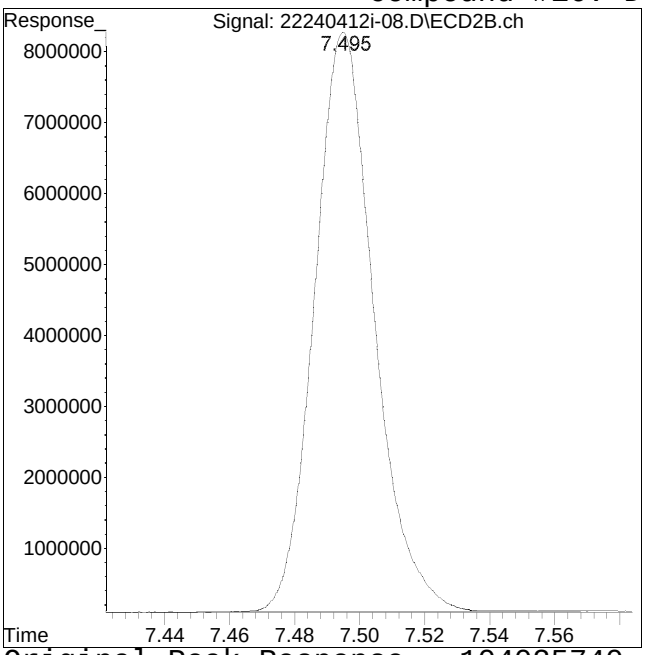


Manual Peak Response = 106726508 M4
M4 = Poor automated baseline construction.

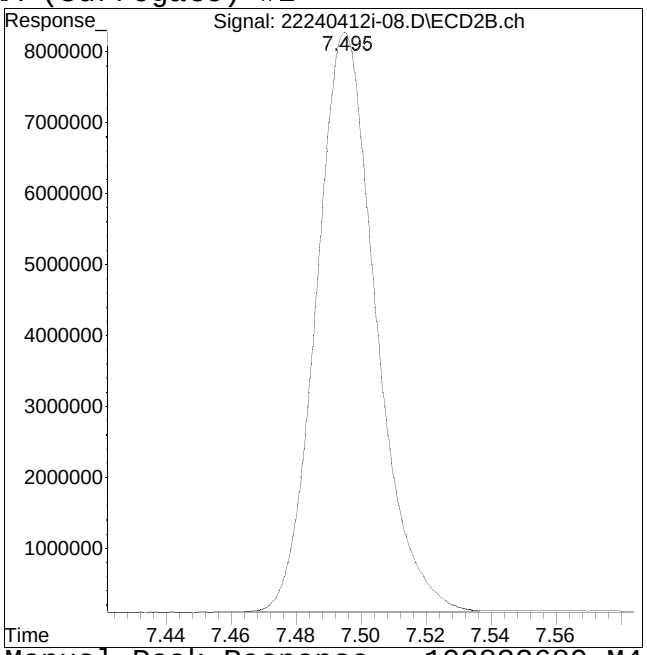
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 104025740



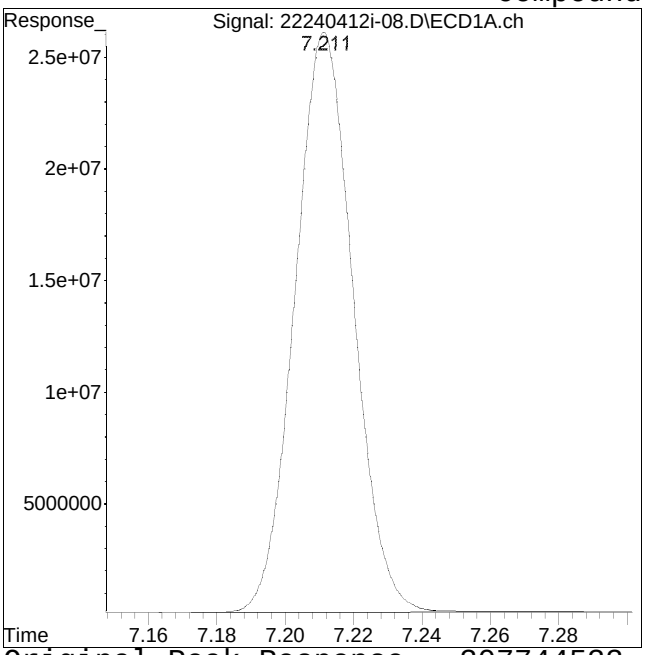
Manual Peak Response = 103832680 M4

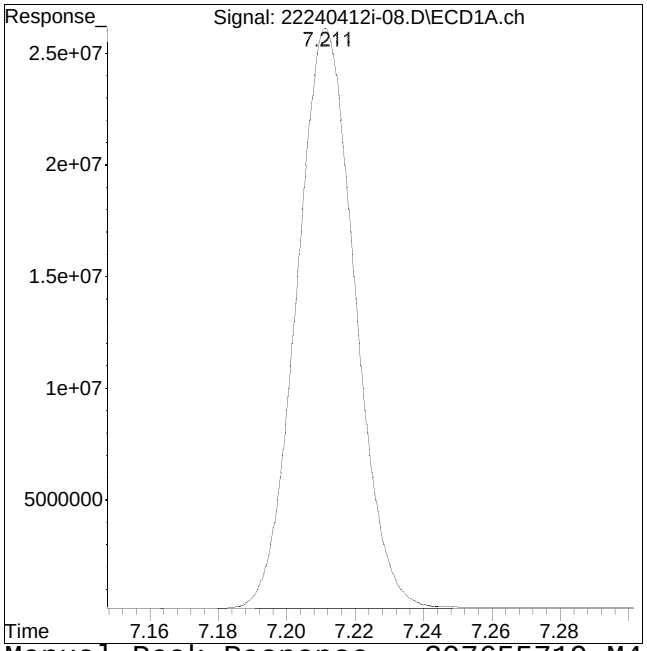
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #4: Dicamba



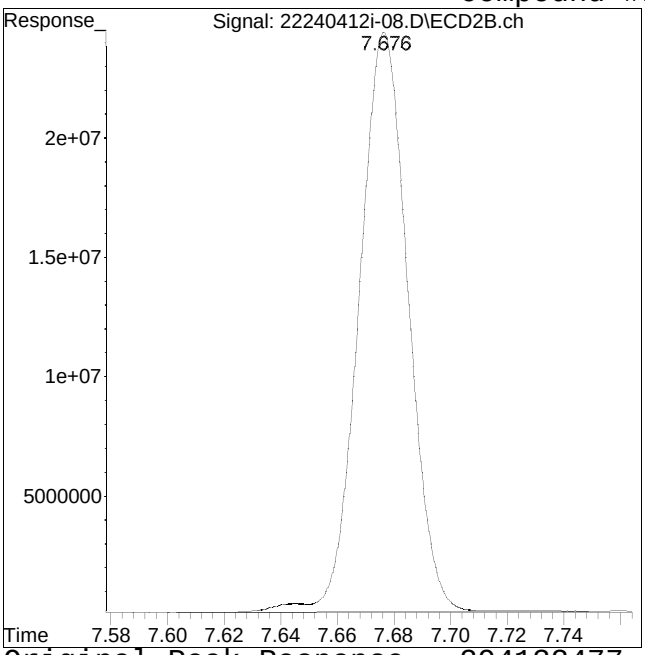


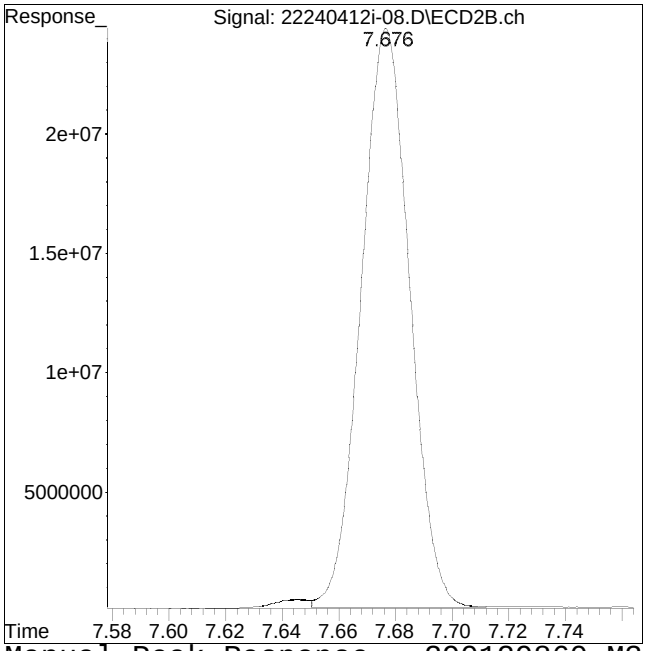
Original Peak Response = 307744533 Manual Peak Response = 307655719 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #17: Dicamba #2



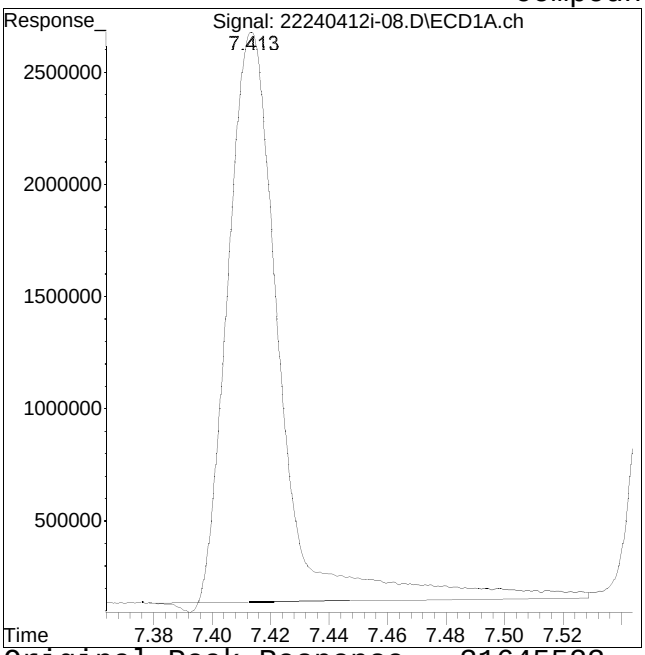


Original Peak Response = 294132477 Manual Peak Response = 290129860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

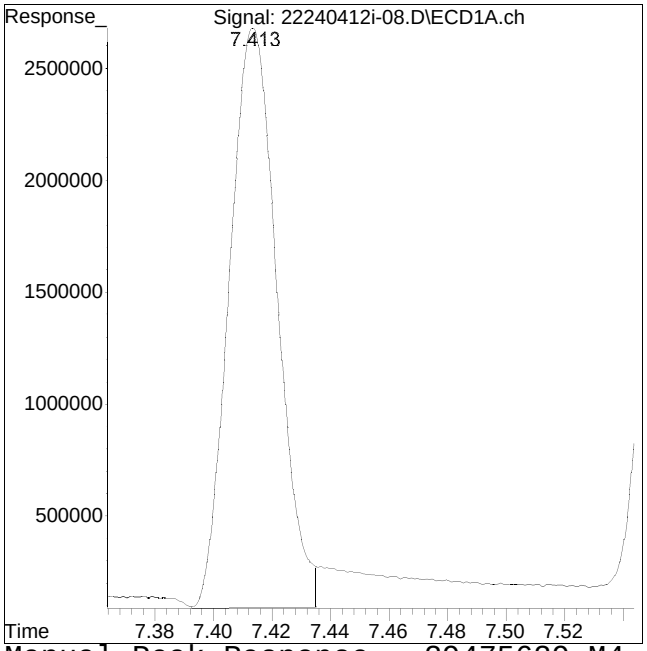
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #5: MCPP



Original Peak Response = 31645523



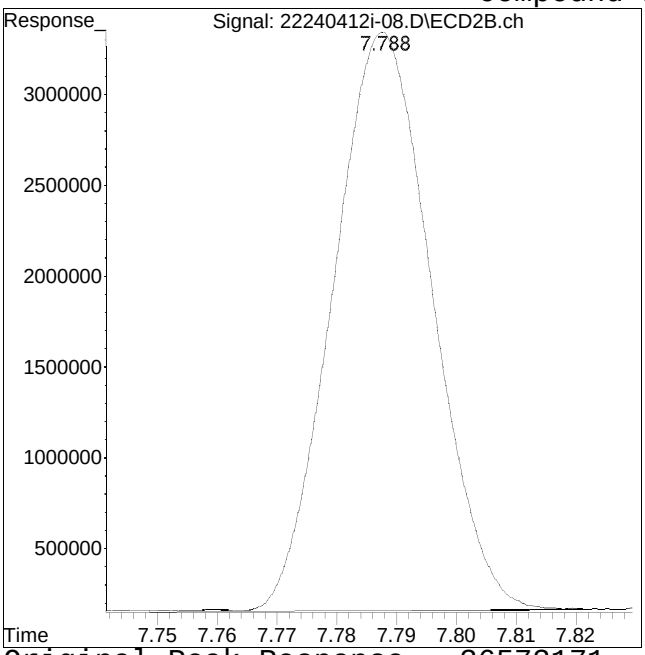
Manual Peak Response = 29475629 M4

M4 = Poor automated baseline construction.

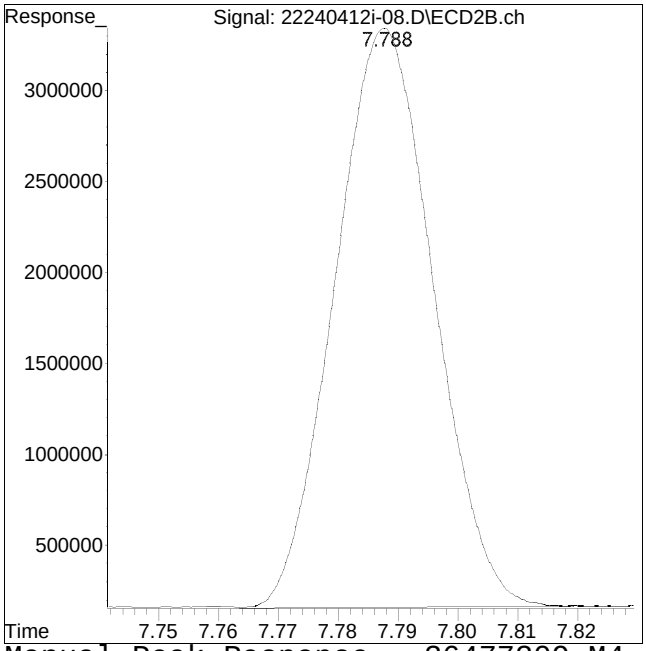
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #18: MCPP #2



Original Peak Response = 36573171



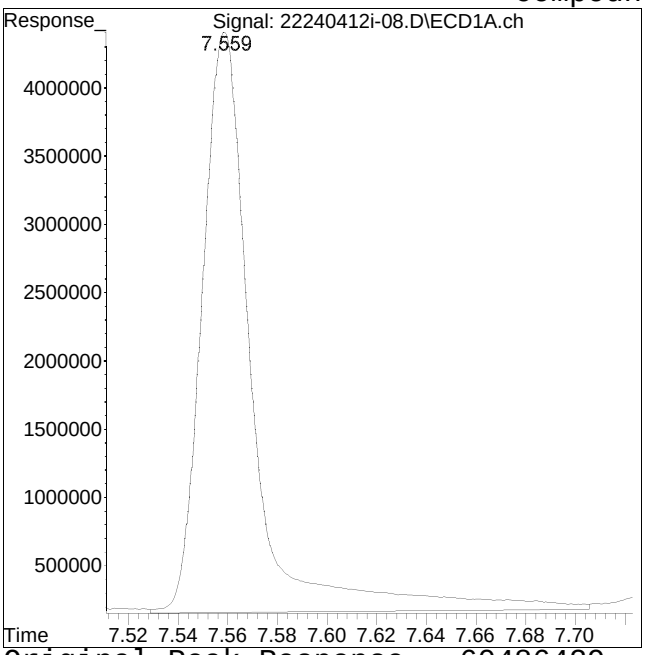
Manual Peak Response = 36477309 M4

M4 = Poor automated baseline construction.

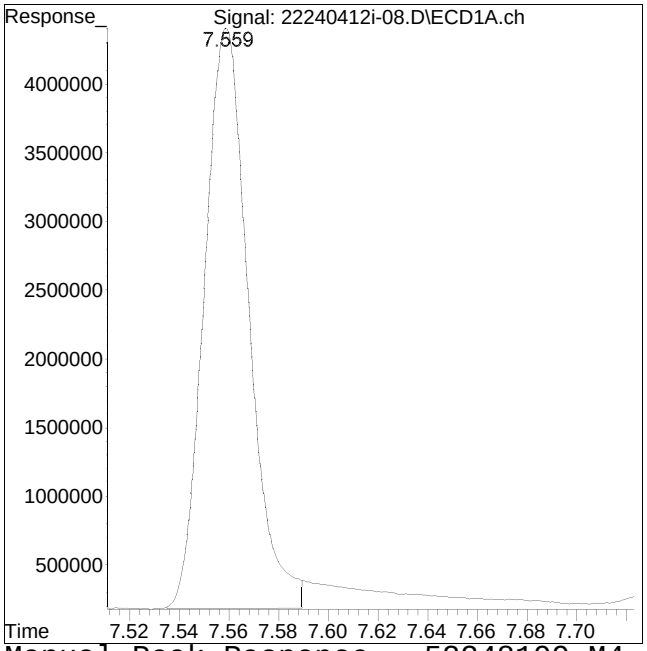
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #6: MCPA



Original Peak Response = 60486429



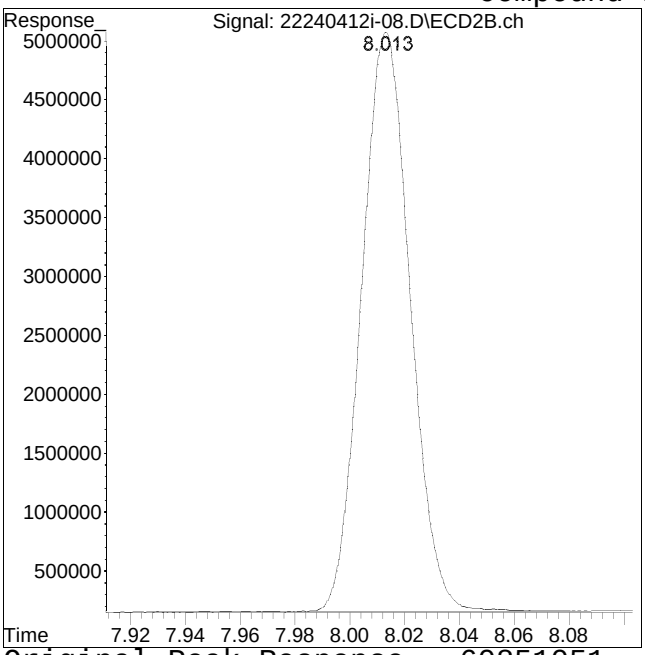
Manual Peak Response = 52248199 M4

M4 = Poor automated baseline construction.

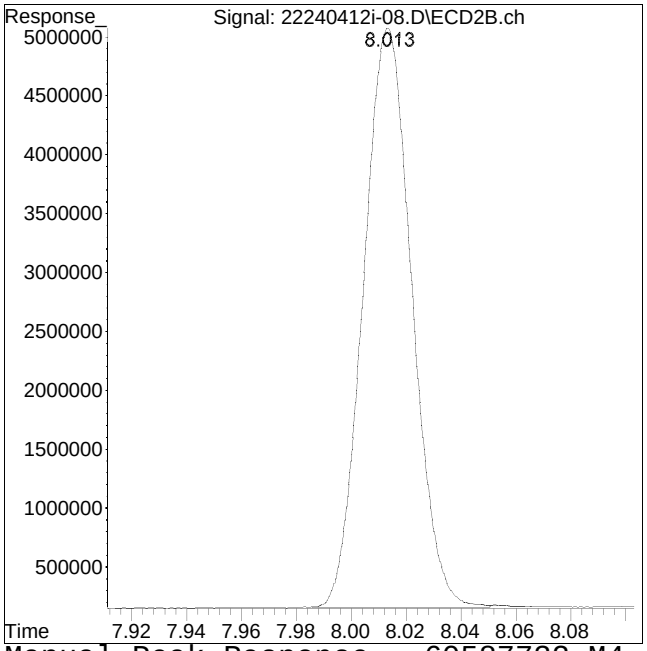
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #19: MCPA #2



Original Peak Response = 60851051



Manual Peak Response = 60587732 M4

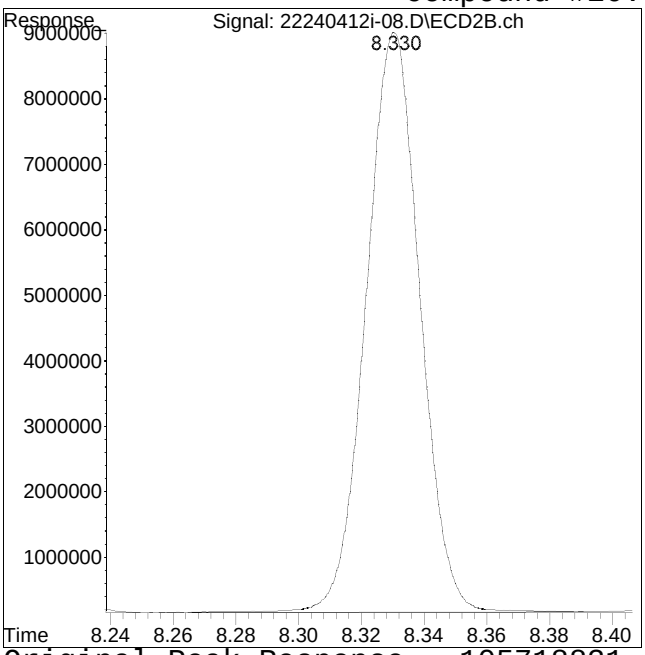
M4 = Poor automated baseline construction.

Manual Integration Report

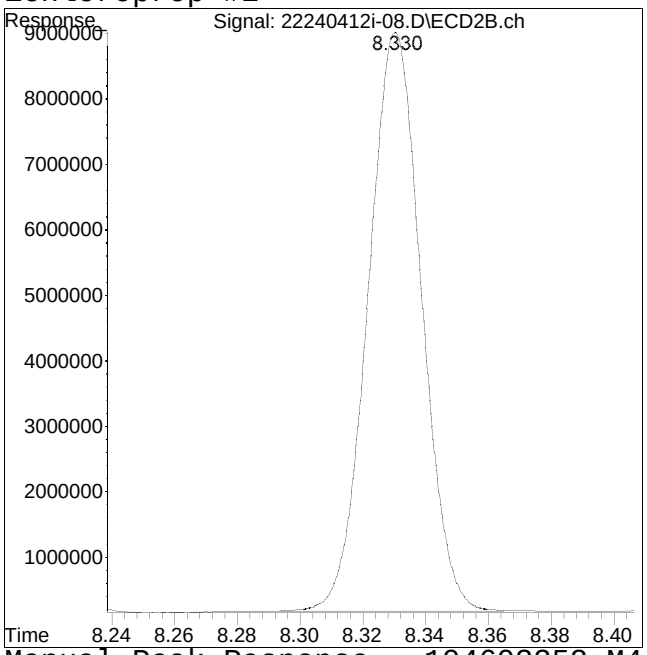
Data Path : I:\PEST\Pest22\2024\240412Q
Data File : 22240412i-08.D
Date Inj'd : 4/12/2024 8:26 am
Sample : cicv,42e,,pp11458 L0.2/20I

Method : Herb22_2024_04_12_mgL_IC
Operator : pest22:peg
Instrument : Pest22
Quant Date : 4/12/2024 9:48 am

Compound #20: Dichloroprop #2



Original Peak Response = 105718831



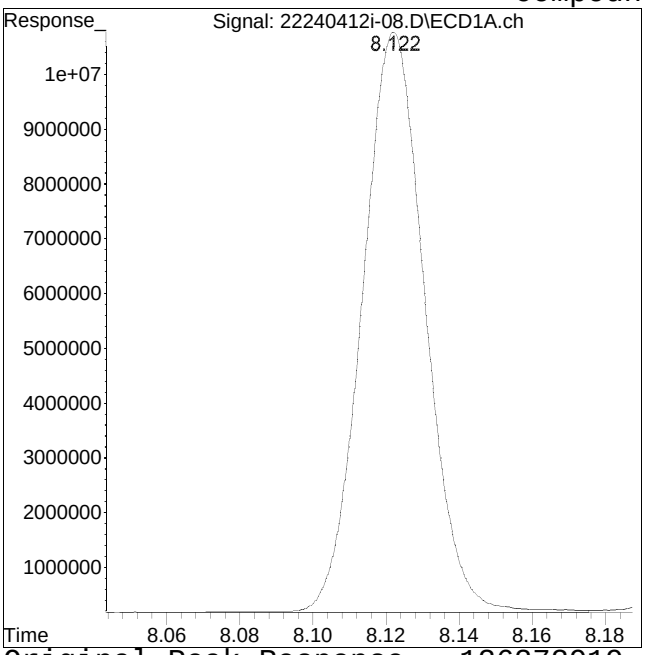
Manual Peak Response = 104603352 M4

M4 = Poor automated baseline construction.

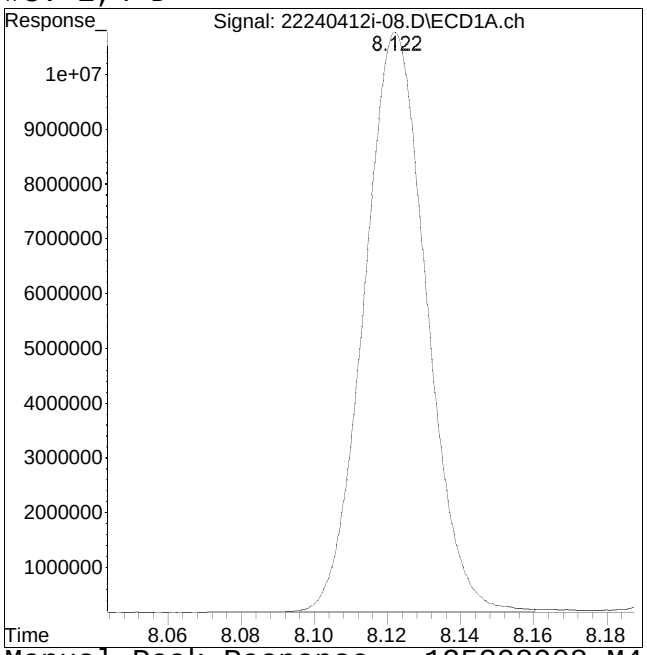
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #8: 2,4-D



Original Peak Response = 126272919

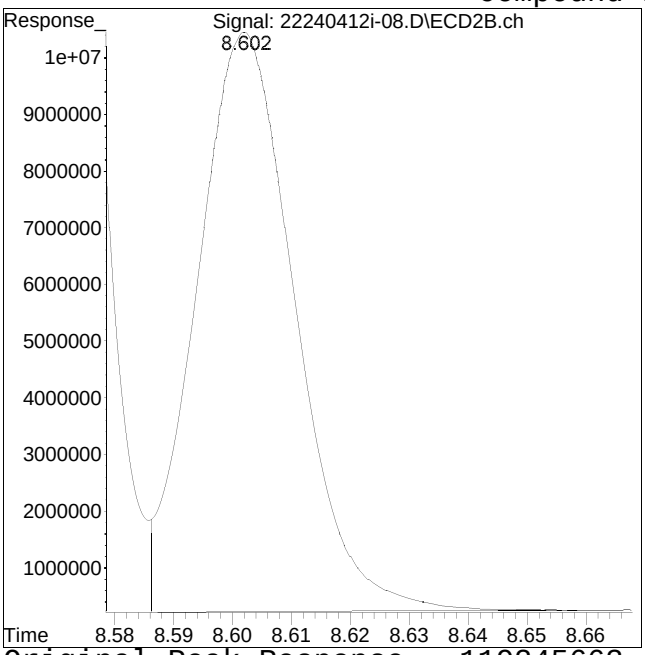


Manual Peak Response = 125308908 M4
M4 = Poor automated baseline construction.

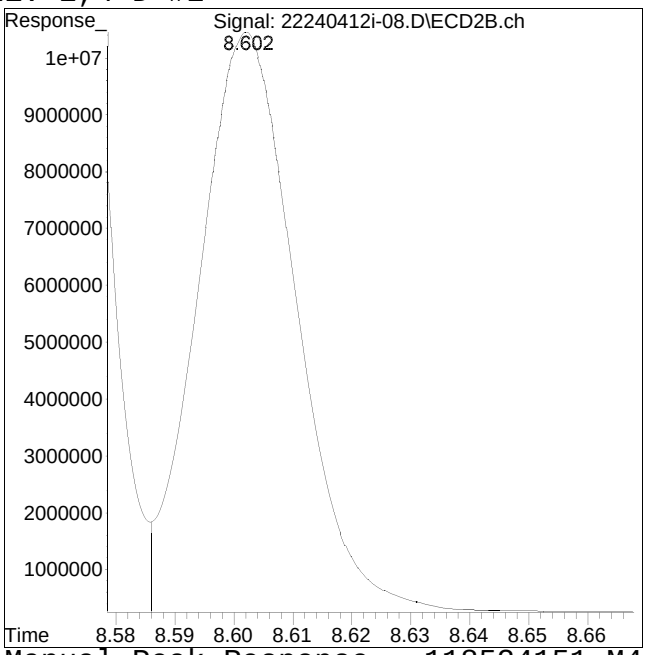
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #21: 2,4-D #2



Original Peak Response = 119245663

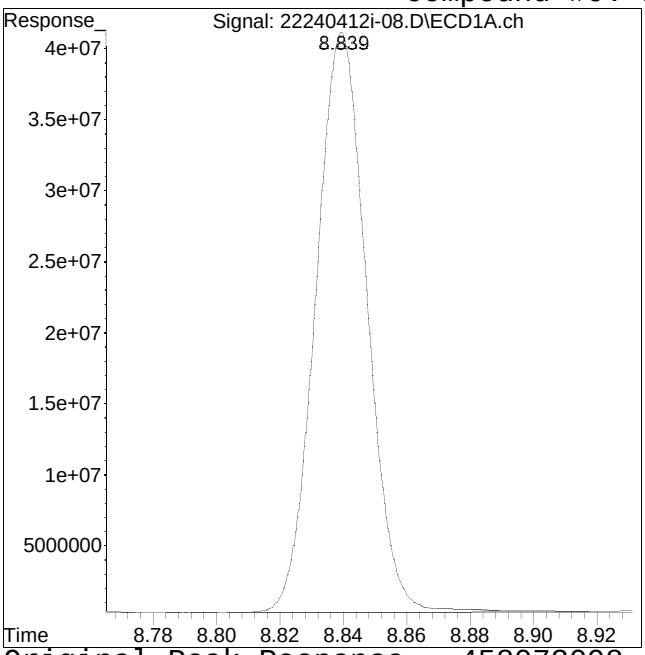


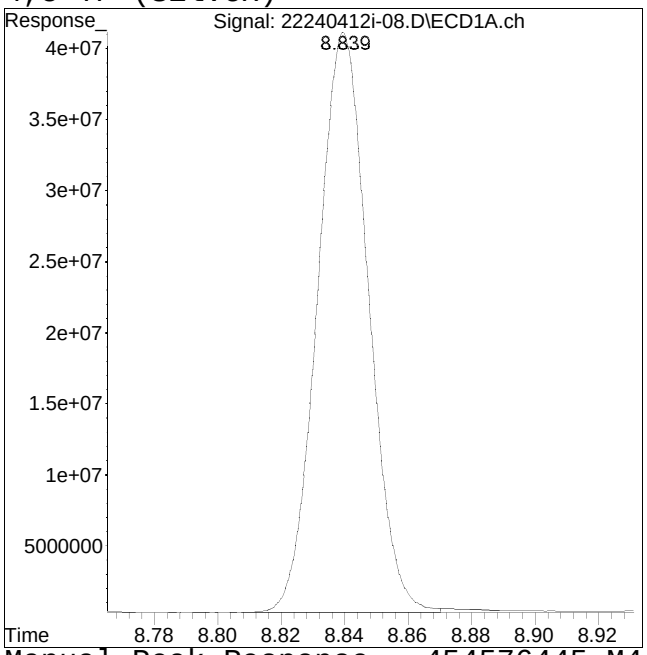
Manual Peak Response = 118524151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #9: 2,4,5-TP (Silvex)



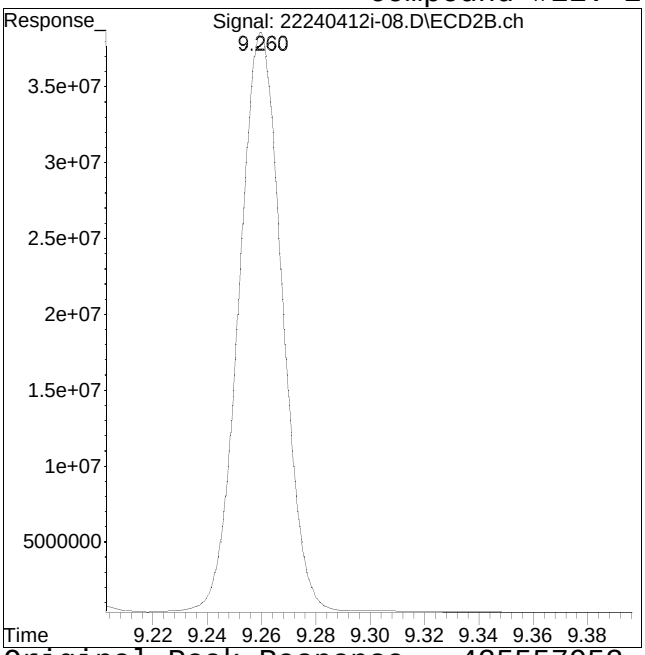


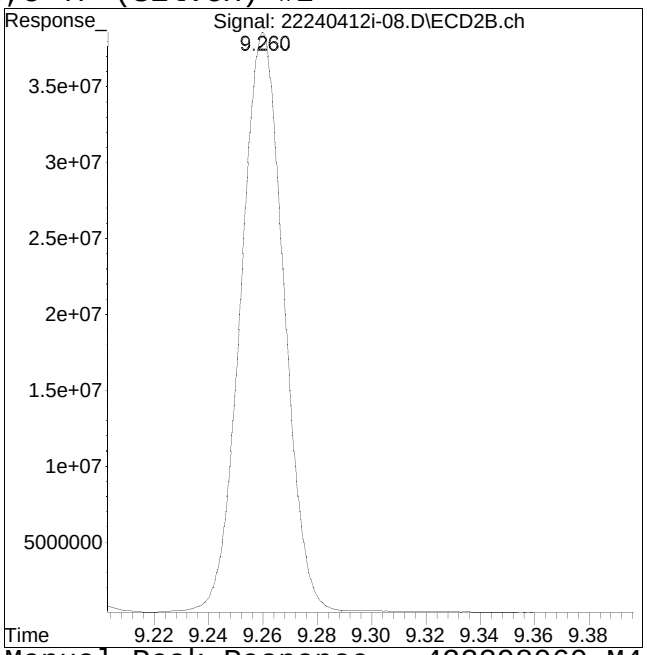
Original Peak Response = 458073098 Manual Peak Response = 454576445 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #22: 2,4,5-TP (Silvex) #2



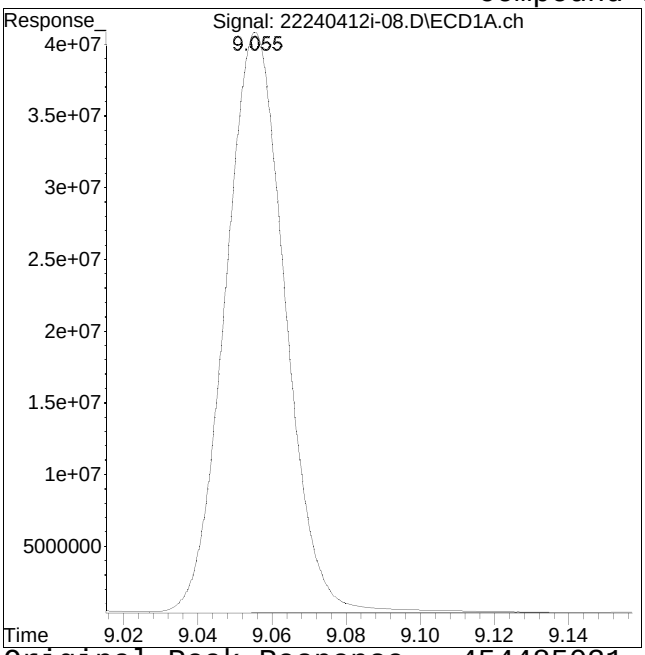


Original Peak Response = 425557953 Manual Peak Response = 422398060 M4
M4 = Poor automated baseline construction.

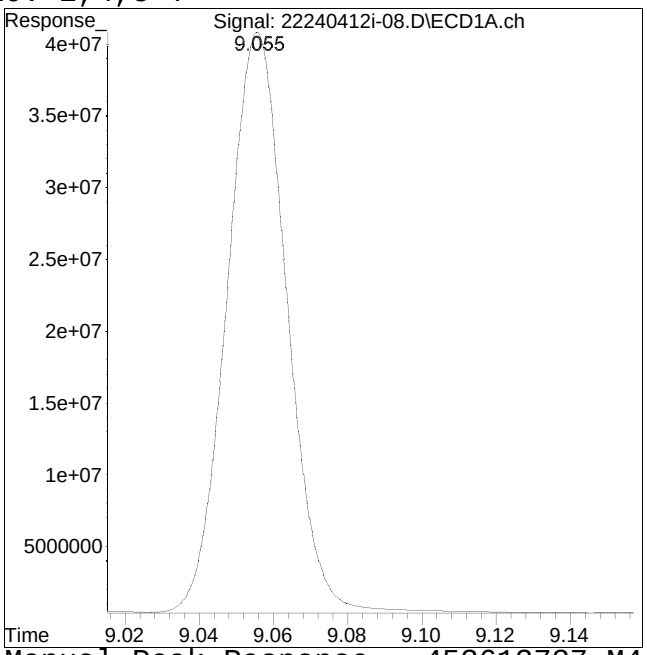
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #10: 2,4,5-T



Original Peak Response = 454485031

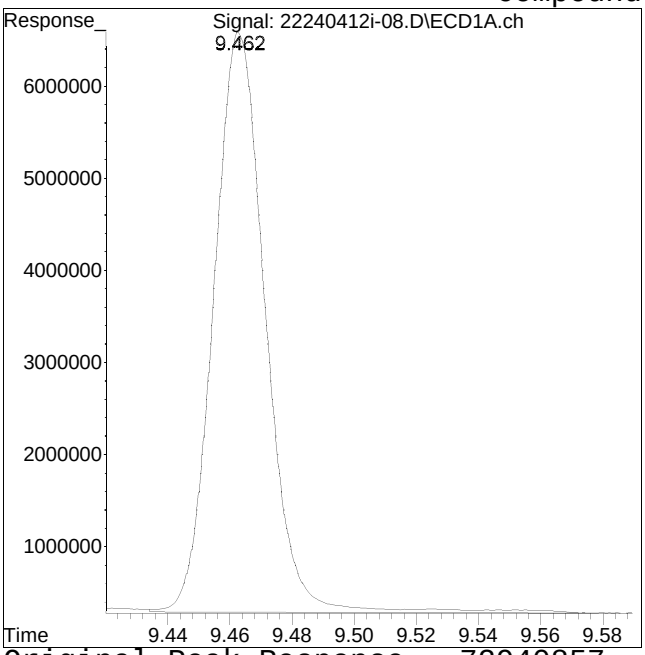


Manual Peak Response = 453613737 M4
M4 = Poor automated baseline construction.

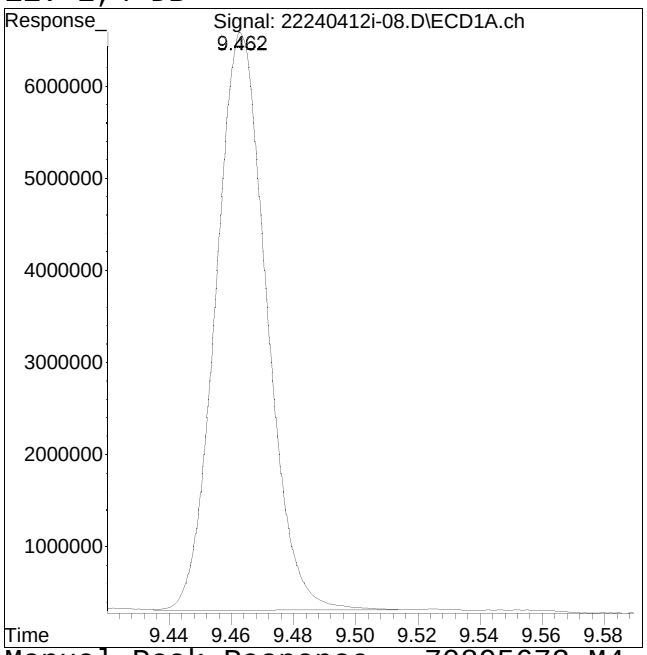
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #11: 2,4-DB



Original Peak Response = 72940857



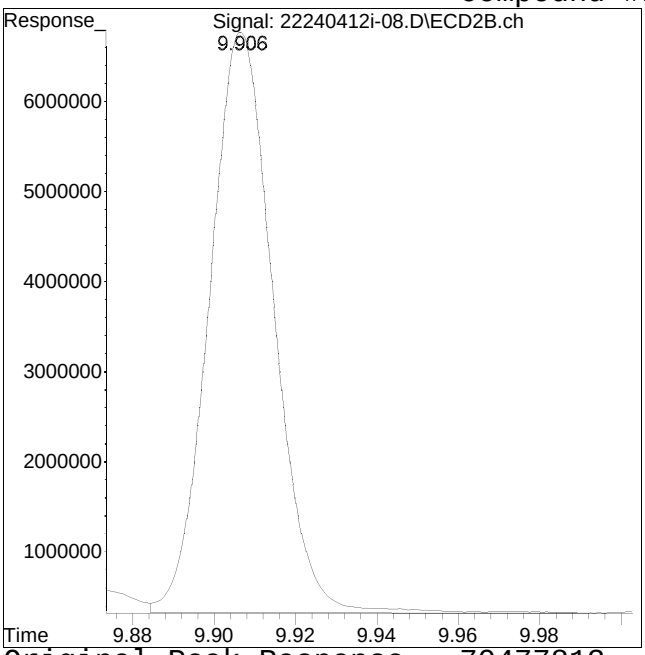
Manual Peak Response = 70895673 M4

M4 = Poor automated baseline construction.

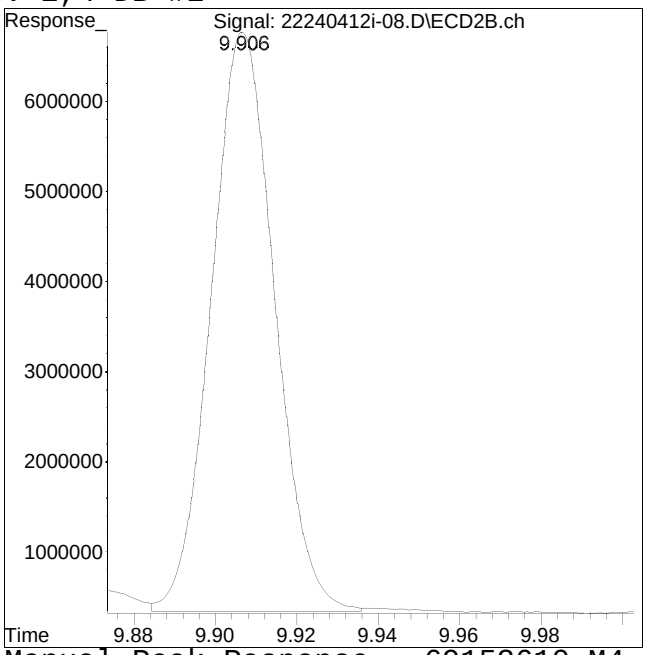
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #24: 2,4-DB #2



Original Peak Response = 70477813



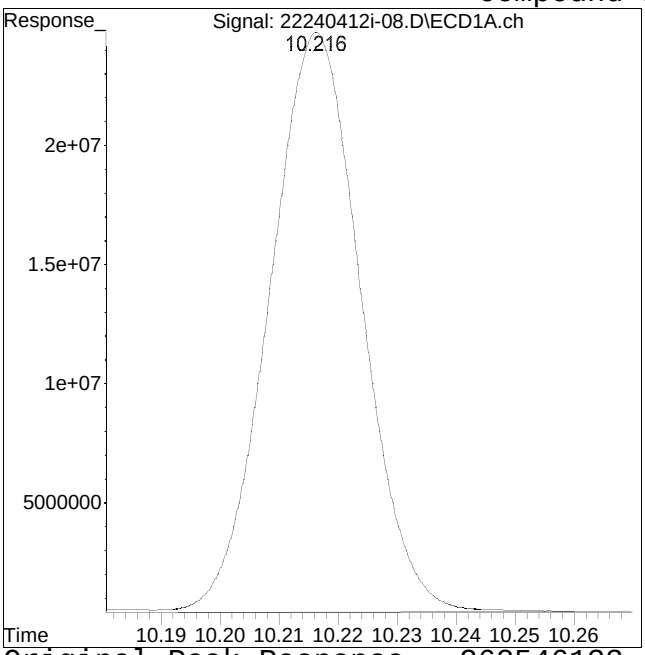
Manual Peak Response = 69153610 M4

M4 = Poor automated baseline construction.

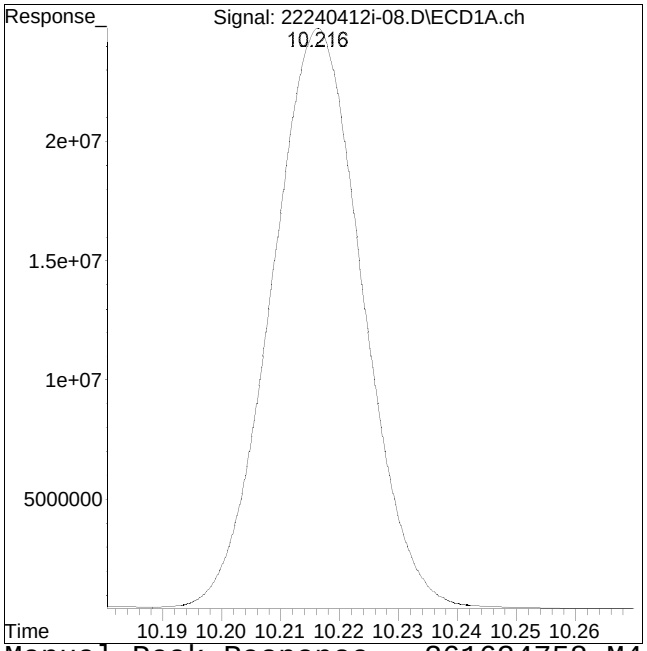
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #12: Dinoseb



Original Peak Response = 262546133



Manual Peak Response = 261634758 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 13:07		
Lab File ID	: 22240619a-18	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-2	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	119	0
Dalapon	0.211	0.216	-	-2.4	15	116	0
DCAA (surrogate)	0.206	0.21	-	-1.9	15	113	0
Dicamba	0.589	0.604	-	-2.5	15	113	0
MCPP	0.00052	0.00086	-	-65.4*	15	183	0
MCPA	0.00097	0.00147	-	-51.5*	15	169	0
Dichloroprop	0.193	0.201	-	-4.1	15	114	0
2,4-D	0.24	0.258	-	-7.5	15	119	-.02
2,4,5-TP (Silvex)	0.868	0.901	-	-3.8	15	114	-.01
2,4,5-T	0.853	1.072	-	-25.7*	15	140	-.02
2,4-DB	0.132	0.135	-	-2.3	15	112	-.02
Dinoseb	0.493	0.92	-	-86.6*	15	207	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 13:07		
Lab File ID	: 22240619a-18	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-2	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	131	0
Dalapon	0.197	0.202	-	-2.5	15	127	0
DCAA (surrogate)	0.203	0.207	-	-2	15	125	0
Dicamba	0.594	0.593	-	0.2	15	123	0
MCPP	0.00074	0.00061	-	17.6*	15	104	0
MCPA	0.00124	0.00116	-	6.5	15	116	0
Dichloroprop	0.192	0.197	-	-2.6	15	125	0
2,4-D	0.237	0.274	-	-15.6*	15	144	0
2,4,5-TP (Silvex)	0.856	0.953	-	-11.3	15	137	0
2,4,5-T	0.831	0.836	-	-0.6	15	124	0
2,4-DB	0.141	0.145	-	-2.8	15	128	0
Dinoseb	0.491	0.604	-	-23*	15	153	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 18:04		
Lab File ID	: 22240619a-34	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-3	**Init. Calib. Times**	: 06:35	08:08	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	112	0
Dalapon	0.211	0.221	-	-4.7	15	112	0
DCAA (surrogate)	0.206	0.209	-	-1.5	15	106	0
Dicamba	0.589	0.616	-	-4.6	15	109	0
MCPP	0.00052	0.00085	-	-63.5*	15	171	0
MCPA	0.00097	0.00148	-	-52.6*	15	160	0
Dichloroprop	0.193	0.201	-	-4.1	15	108	0
2,4-D	0.24	0.255	-	-6.3	15	111	-.02
2,4,5-TP (Silvex)	0.868	0.893	-	-2.9	15	106	-.01
2,4,5-T	0.853	1.025	-	-20.2*	15	126	-.02
2,4-DB	0.132	0.129	-	2.3	15	102	-.03
Dinoseb	0.493	0.868	-	-76.1*	15	184	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 06/19/24 18:04		
Lab File ID	: 22240619a-34	**Init. Calib. Date(s)**	: 04/12/24	04/12/24	
Sample No	: WG1936304-3	**Init. Calib. Times**	: 06:35	08:08	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	124	0
Dalapon	0.197	0.212	-	-7.6	15	127	0
DCAA (surrogate)	0.203	0.208	-	-2.5	15	119	0
Dicamba	0.594	0.599	-	-0.8	15	118	0
MCPP	0.00074	0.00059	-	20.3*	15	96	0
MCPA	0.00124	0.00115	-	7.3	15	109	0
Dichloroprop	0.192	0.198	-	-3.1	15	119	0
2,4-D	0.237	0.283	-	-19.4*	15	141	0
2,4,5-TP (Silvex)	0.856	0.947	-	-10.6	15	129	0
2,4,5-T	0.831	0.829	-	0.2	15	117	0
2,4-DB	0.141	0.141	-	0	15	119	-.01
Dinoseb	0.491	0.588	-	-19.8*	15	142	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample   : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	119	0.00
2	t	Dalapon		0.211	0.216	-2.4	116	0.00
3	s	DCAA (surrogate)		0.206	0.210	-1.9	113	0.00
4	t	Dicamba		0.589	0.604	-2.5	113	0.00
5	t	MCPP		0.00052	0.00086	-65.4#	183#	0.00
6	t	MCPA		0.00097	0.00147	-51.5#	169#	0.00
7	t	Dichloroprop		0.193	0.201	-4.1	114	0.00
8	t	2,4-D		0.240	0.258	-7.5	119	-0.02
9	t	2,4,5-TP (Silvex)		0.868	0.901	-3.8	114	-0.01
10	t	2,4,5-T		0.853	1.072	-25.7#	140	-0.02
11	t	2,4-DB		0.132	0.135	-2.3	112	-0.02
12	t	Dinoseb		0.493	0.920	-86.6#	207#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	131	0.00
2	t	Dalapon		0.197	0.202	-2.5	127	0.00
3	s	DCAA (surrogate)		0.203	0.207	-2.0	125	0.00
4	t	Dicamba		0.594	0.593	0.2	123	0.00
5	t	MCPP		0.00074	0.00061	17.6#	104	0.00
6	t	MCPA		0.00124	0.00116	6.5	116	0.00
7	t	Dichloroprop		0.192	0.197	-2.6	125	0.00
8	t	2,4-D		0.237	0.274	-15.6#	144	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.953	-11.3	137	0.00
10	t	2,4,5-T		0.831	0.836	-0.6	124	0.00
11	t	2,4-DB		0.141	0.145	-2.8	128	0.00
12	t	Dinoseb		0.491	0.604	-23.0#	153#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample   : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
		Internal Standards							
1)	i	4,4'-DBOB	8.531	8.527	883.3E6	891.3E6	0.250	0.250M4	
		System Monitoring Compounds							
3)	s	DCAA (surrog	6.988	7.457	139.4E6	138.8E6	0.192M4	0.192	
		Spiked Amount	0.500	Range 30 - 150		Recovery =	38.40%	38.40%	
		Target Compounds							
2)	t	Dalapon	2.385	2.384	139.2E6	131.1E6	0.186M3	0.186	
4)	t	Dicamba	7.171	7.638	401.2E6	397.2E6	0.193M4	0.188	
5)	t	MCPP	7.371	7.749	56961548	40975990	30.940M3	15.616	D
6)	t	MCPA	7.518	7.976	96432910	76885792	28.234M4	17.395M3	D
7)	t	Dichloroprop	7.875	8.294	133.6E6	132.0E6	0.196M4	0.193	
8)	t	2,4-D	8.120f	8.579	171.4E6	183.8E6	0.202	0.217M3	
9)	t	2,4,5-TP (Si	8.818	9.232	605.0E6	645.5E6	0.197	0.211	
10)	t	2,4,5-T	9.056f	9.527	719.8E6	566.1E6	0.239M3	0.191	
11)	t	2,4-DB	9.469f	9.889	91311241	99091554	0.196	0.198	
12)	t	Dinoseb	10.185	10.102	617.3E6	409.4E6	0.355	0.234	D
		SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

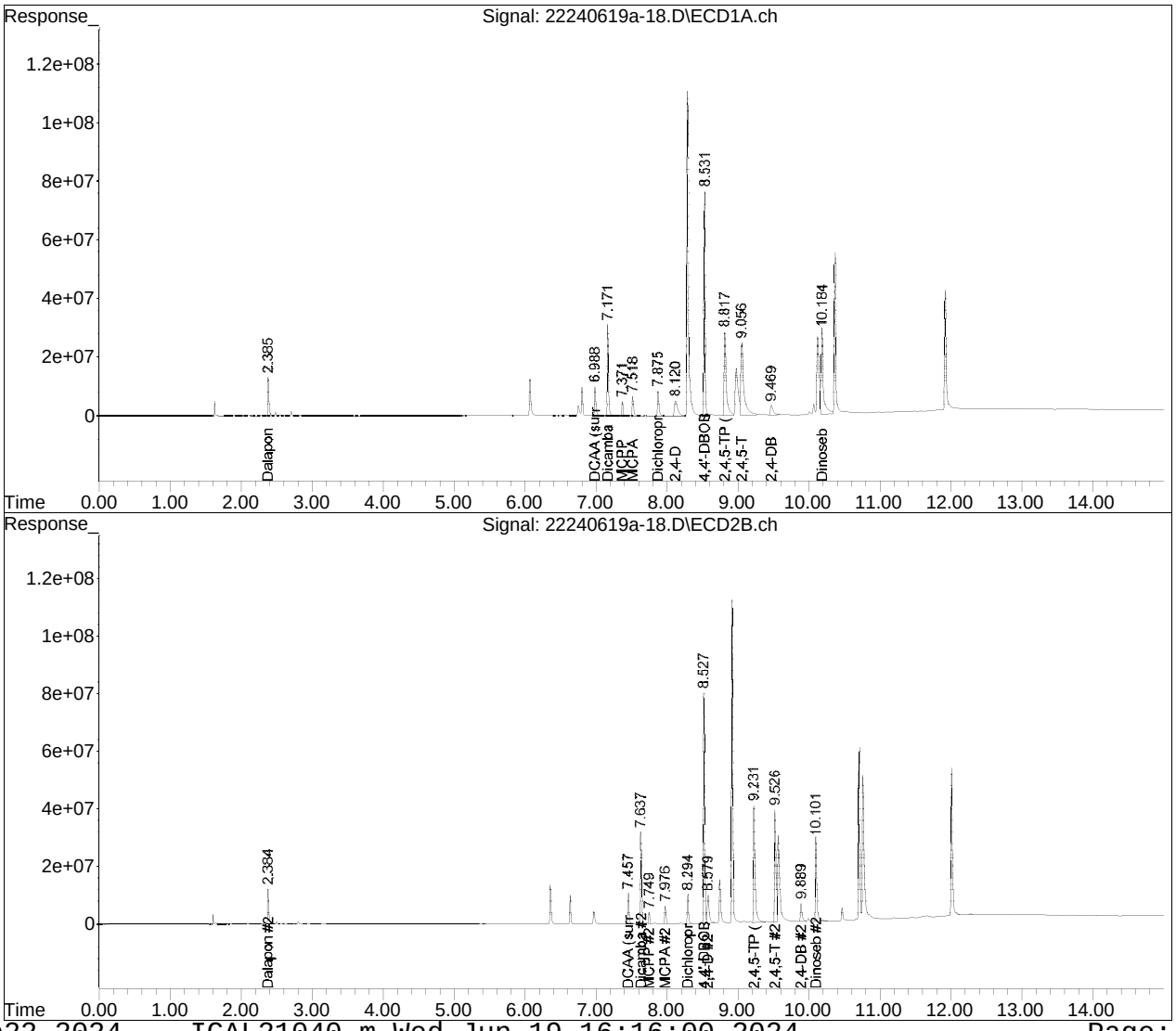
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 01:07 pm
Operator : pest22:ejl
Sample : wg1936304-2,42,, herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:11:28 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

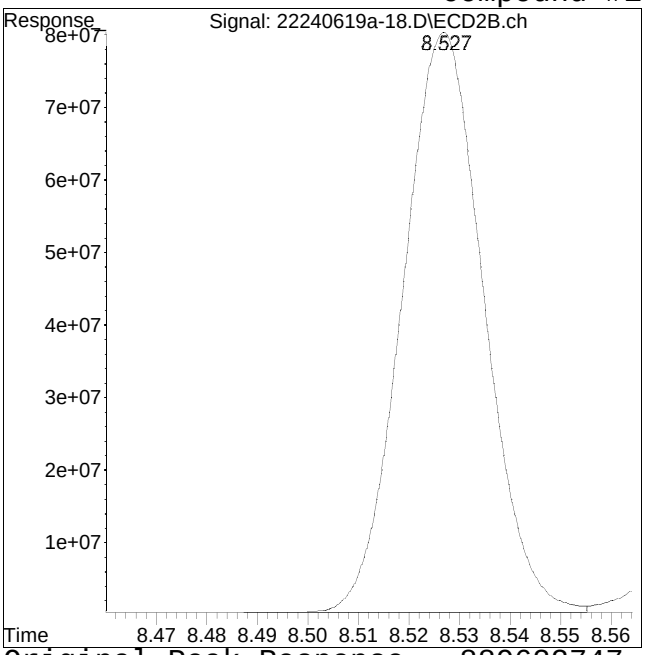
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

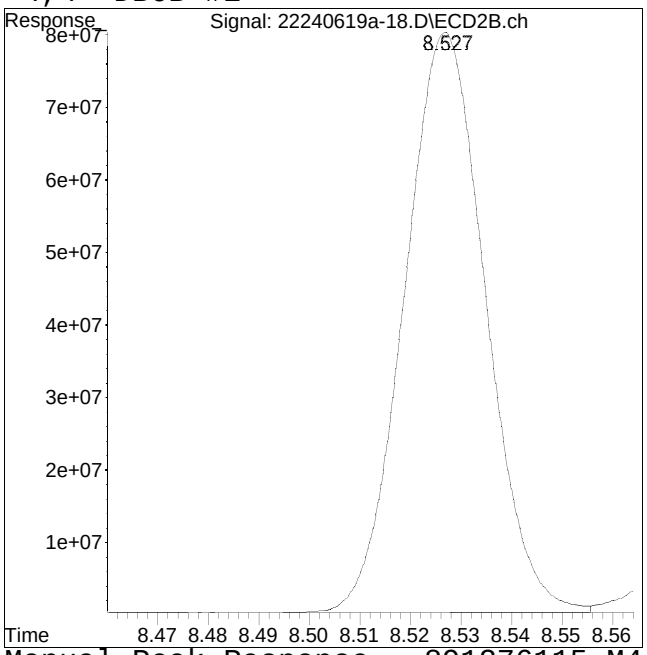


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #14: 4,4'-DBOB #2



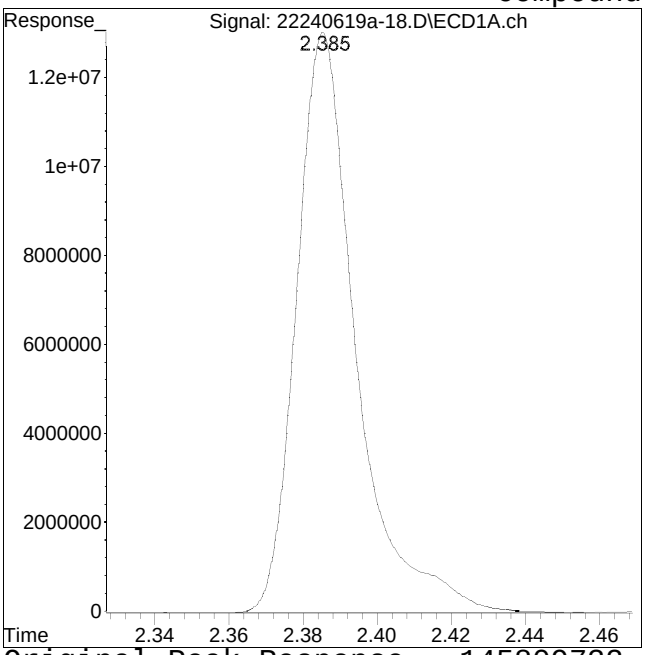


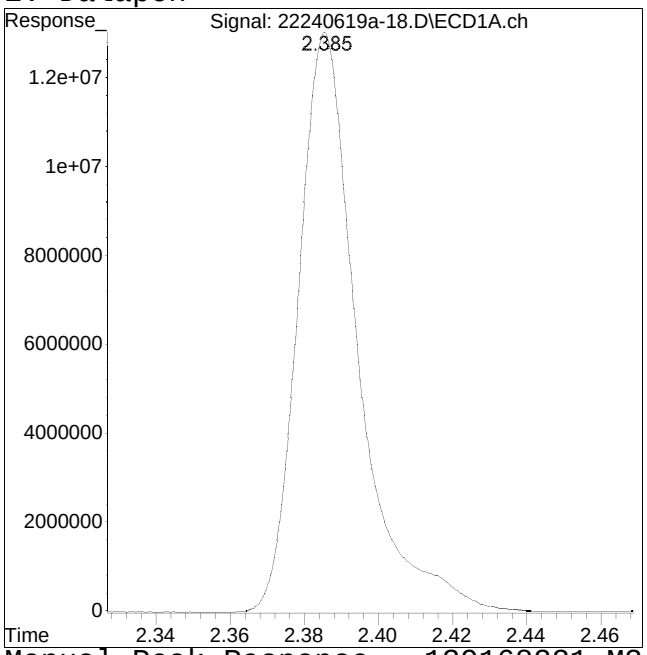
Original Peak Response = 889622747 Manual Peak Response = 891276115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #2: Dalapon



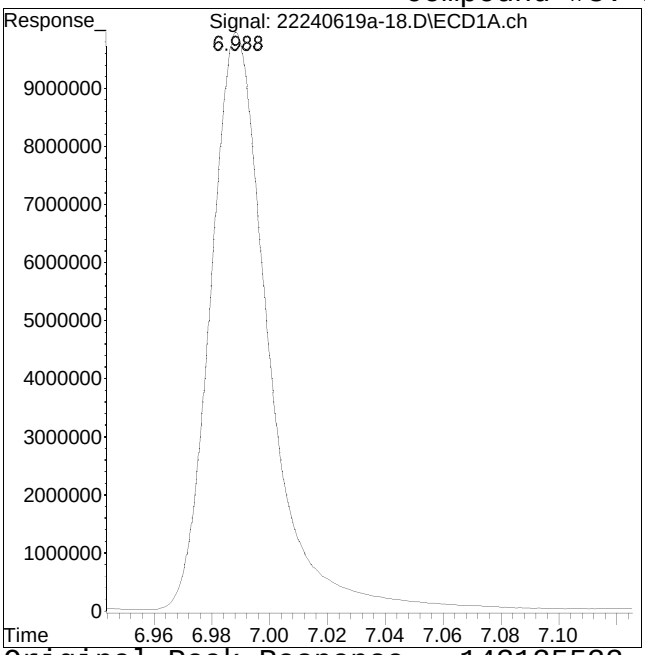


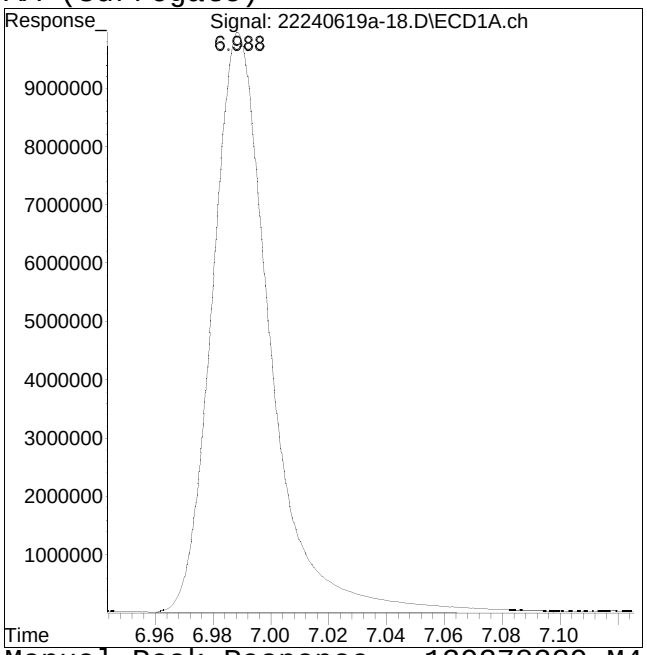
Original Peak Response = 145809732 Manual Peak Response = 139168221 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #3: DCAA (surrogate)



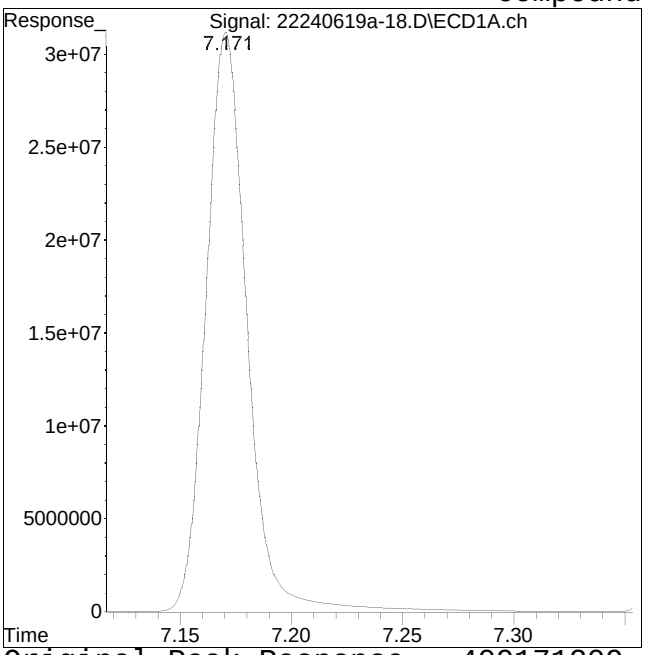


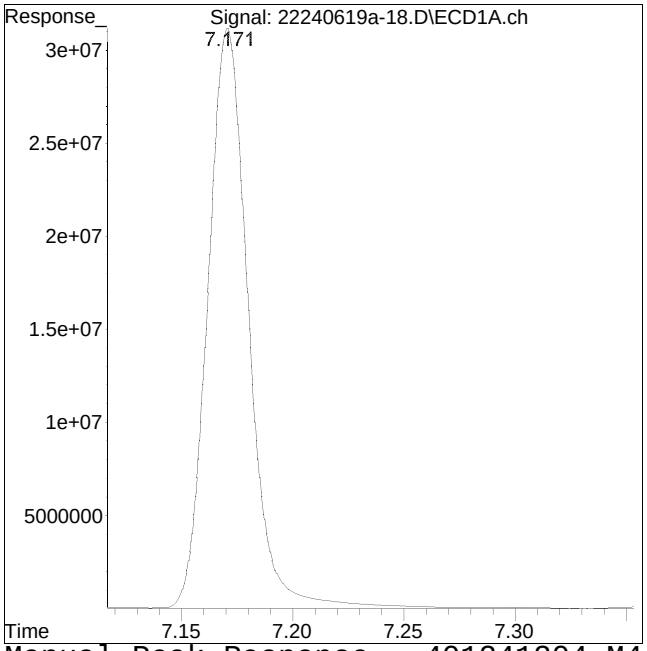
Original Peak Response = 143135533 Manual Peak Response = 139378239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #4: Dicamba



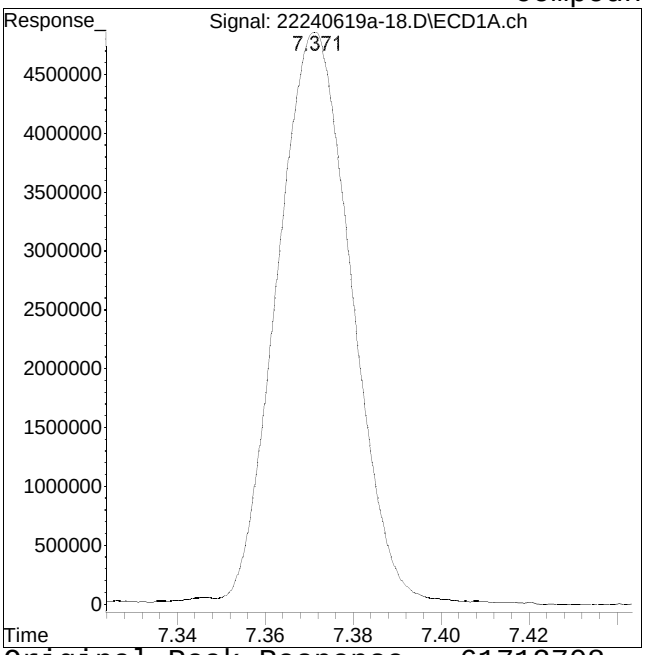


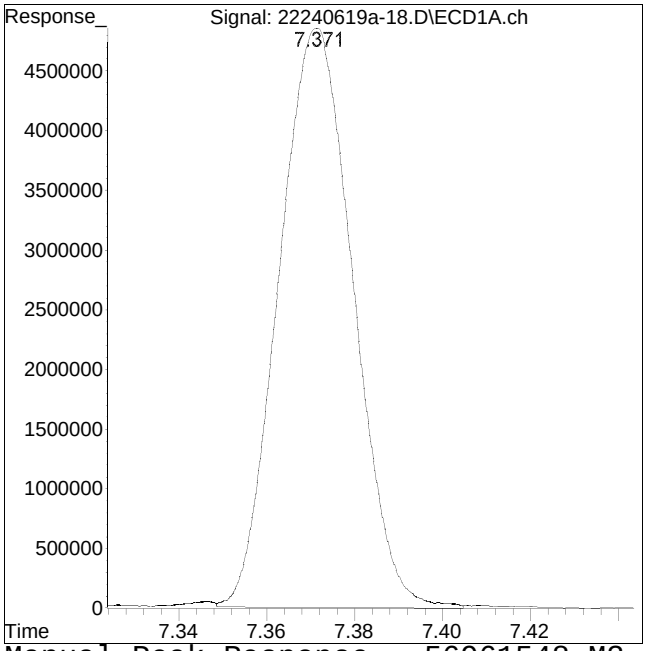
Original Peak Response = 409171209 Manual Peak Response = 401241204 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #5: MCPP



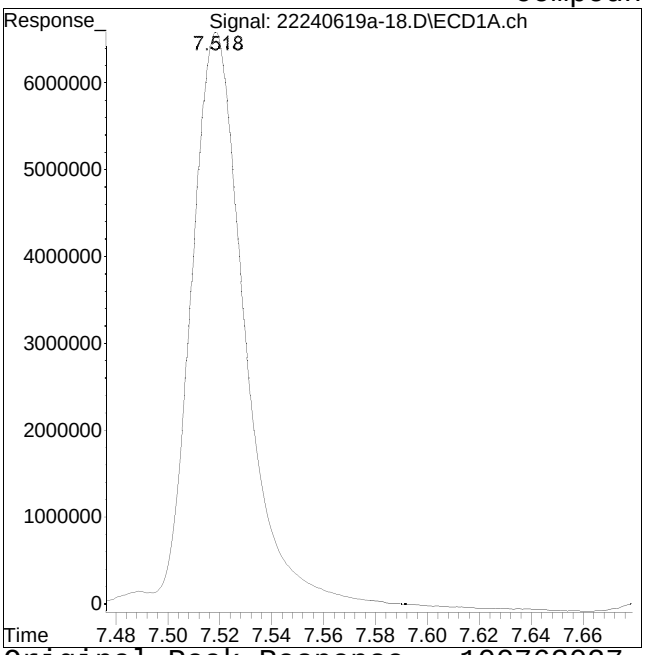


Original Peak Response = 61712708 Manual Peak Response = 56961548 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

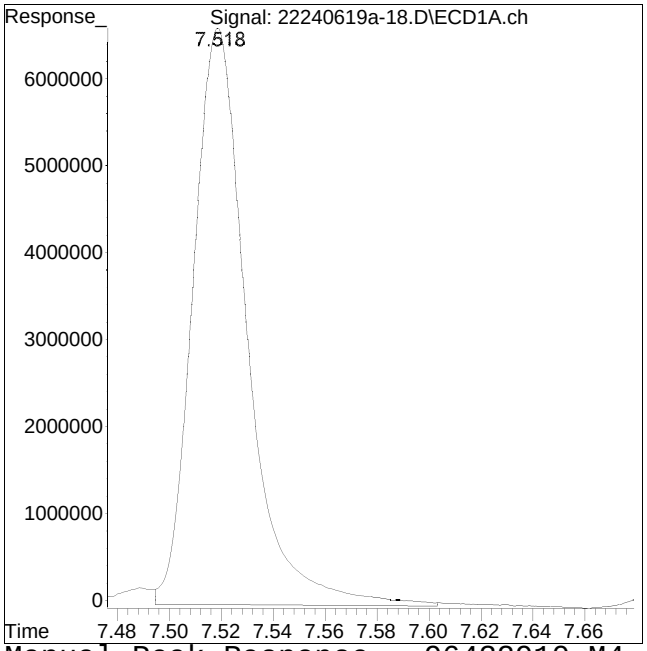
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #6: MCPA



Original Peak Response = 100763027

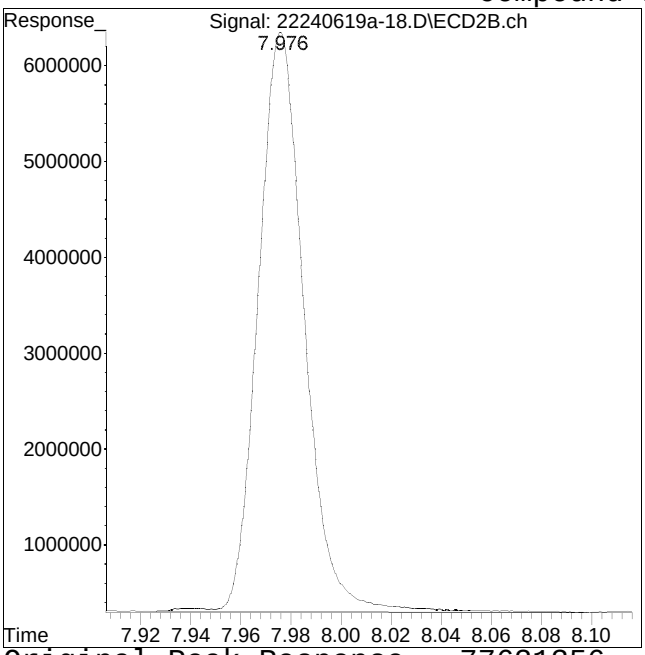


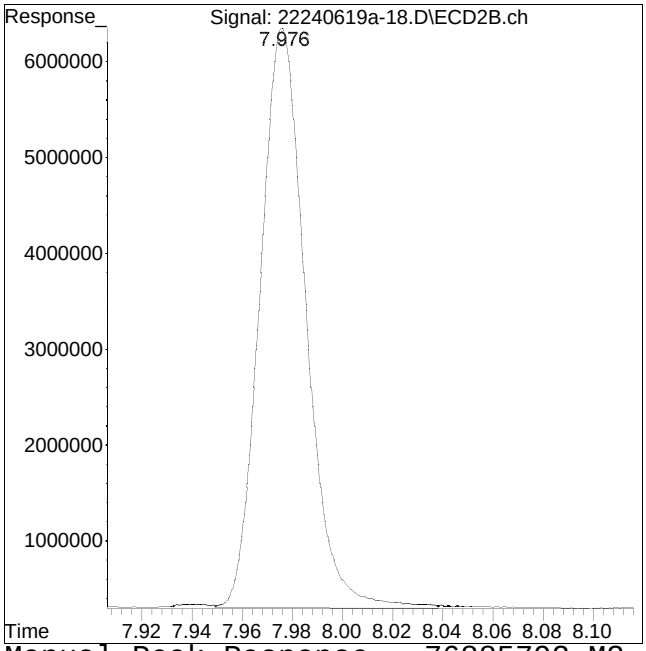
Manual Peak Response = 96432910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #19: MCPA #2



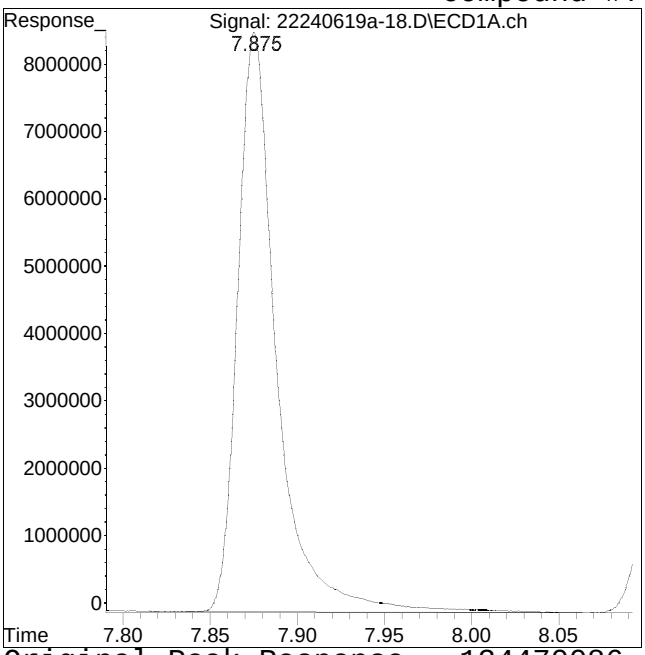


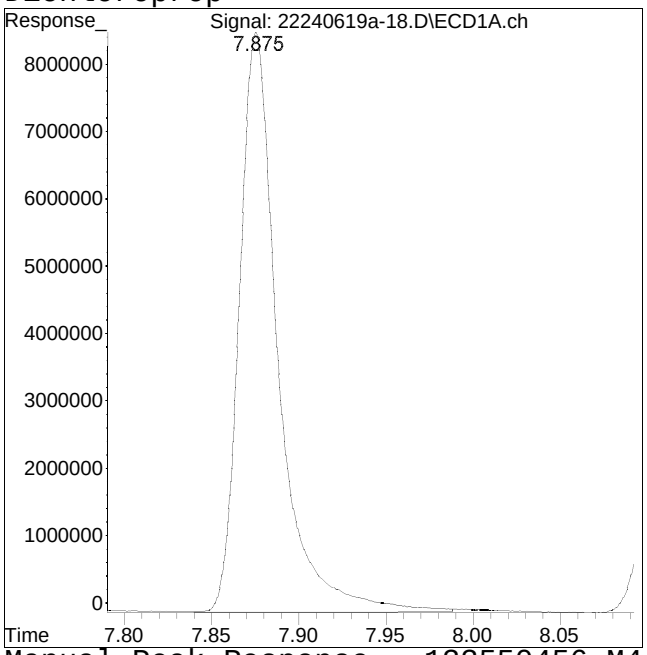
Original Peak Response = 77631356 Manual Peak Response = 76885792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #7: Dichloroprop



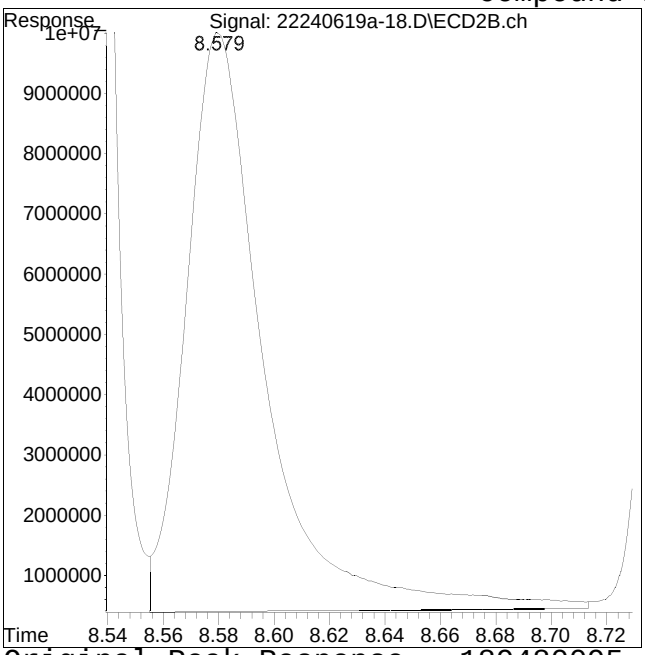


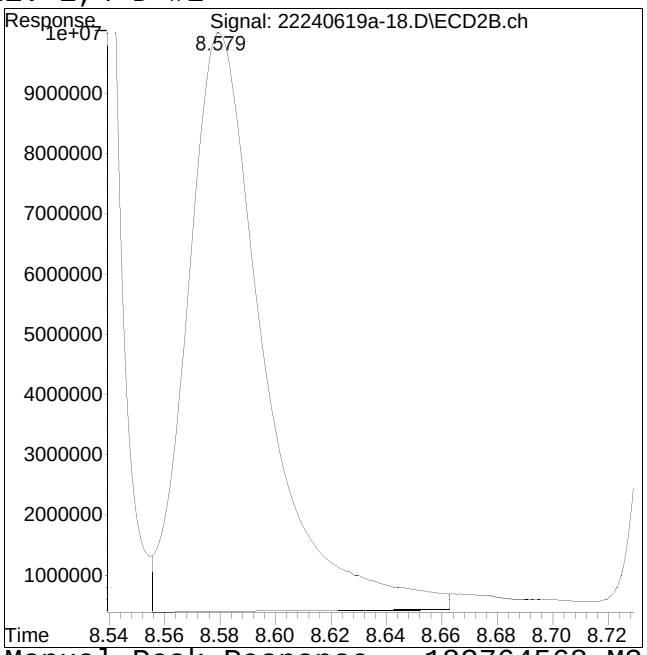
Original Peak Response = 134470086 Manual Peak Response = 133550456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #21: 2,4-D #2



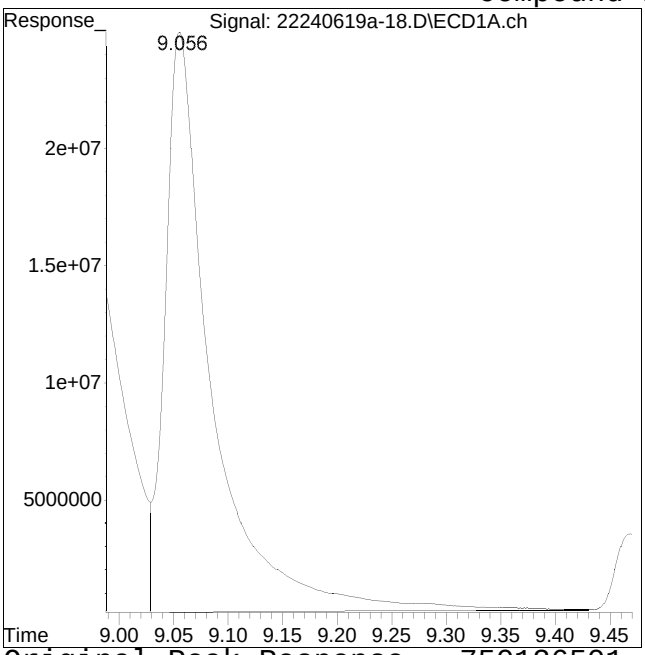


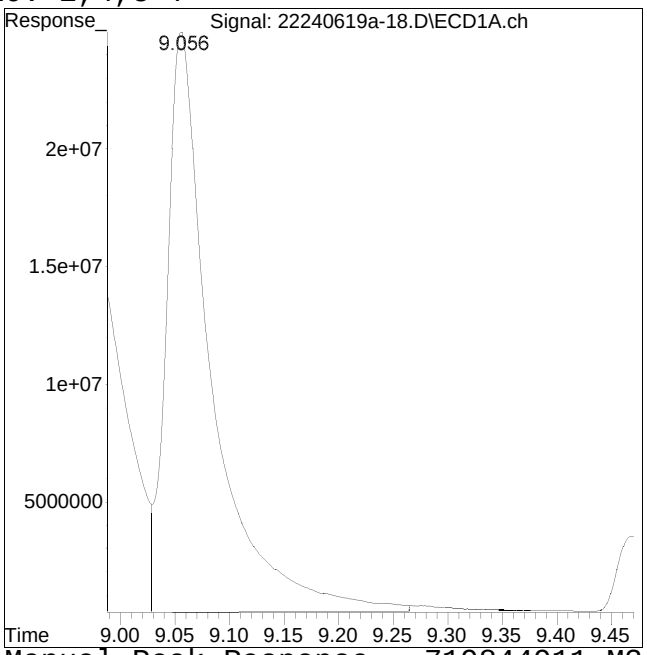
Original Peak Response = 189480095 Manual Peak Response = 183764568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-18.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 1:07 pm Instrument : Pest22
Sample : wg1936304-2,42,, herb11561Quant Date : 6/19/2024 4:11 pm

Compound #10: 2,4,5-T





Original Peak Response = 750126501 Manual Peak Response = 719844911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 18:04
Operator : pest22:peg
Sample   : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	112	0.00
2	t	Dalapon		0.211	0.221	-4.7	112	0.00
3	s	DCAA (surrogate)		0.206	0.209	-1.5	106	0.00
4	t	Dicamba		0.589	0.616	-4.6	109	0.00
5	t	MCPP		0.00052	0.00085	-63.5#	171#	0.00
6	t	MCPA		0.00097	0.00148	-52.6#	160#	0.00
7	t	Dichloroprop		0.193	0.201	-4.1	108	0.00
8	t	2,4-D		0.240	0.255	-6.3	111	-0.02
9	t	2,4,5-TP (Silvex)		0.868	0.893	-2.9	106	-0.01
10	t	2,4,5-T		0.853	1.025	-20.2#	126	-0.02
11	t	2,4-DB		0.132	0.129	2.3	102	-0.03
12	t	Dinoseb		0.493	0.868	-76.1#	184#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	124	0.00
2	t	Dalapon		0.197	0.212	-7.6	127	0.00
3	s	DCAA (surrogate)		0.203	0.208	-2.5	119	0.00
4	t	Dicamba		0.594	0.599	-0.8	118	0.00
5	t	MCPP		0.00074	0.00059	20.3#	96	0.00
6	t	MCPA		0.00124	0.00115	7.3	109	0.00
7	t	Dichloroprop		0.192	0.198	-3.1	119	0.00
8	t	2,4-D		0.237	0.283	-19.4#	141	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.947	-10.6	129	0.00
10	t	2,4,5-T		0.831	0.829	0.2	117	0.00
11	t	2,4-DB		0.141	0.141	0.0	119	-0.01
12	t	Dinoseb		0.491	0.588	-19.8#	142	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Jun 2024 18:04
Operator : pest22:peg
Sample   : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1936304,,ical21040
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.531	8.526	834.3E6	846.6E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.988	7.457	131.0E6	132.3E6	0.191M4	0.193M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	38.20%	38.60%
		Target Compounds						
2)	t	Dalapon	2.385	2.384	134.2E6	130.5E6	0.190M3	0.195
4)	t	Dicamba	7.170	7.638	386.6E6	381.7E6	0.197M3	0.190
5)	t	MCPP	7.371	7.749	53283697	37723567	30.644M4 D	15.135M4
6)	t	MCPA	7.518	7.976	91606680	72494982	28.397M3 D	17.267
7)	t	Dichloroprop	7.875	8.294	126.0E6	125.8E6	0.196M4	0.193M3
8)	t	2,4-D	8.120f	8.580	159.8E6	179.9E6	0.200	0.224
9)	t	2,4,5-TP (Si	8.817	9.232	566.1E6	609.5E6	0.196	0.210
10)	t	2,4,5-T	9.054f	9.526	650.1E6	533.2E6	0.228M3	0.190
11)	t	2,4-DB	9.466f	9.888	82696247	91820003	0.188	0.193M4
12)	t	Dinoseb	10.185	10.101	550.4E6	378.6E6	0.335	0.228M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

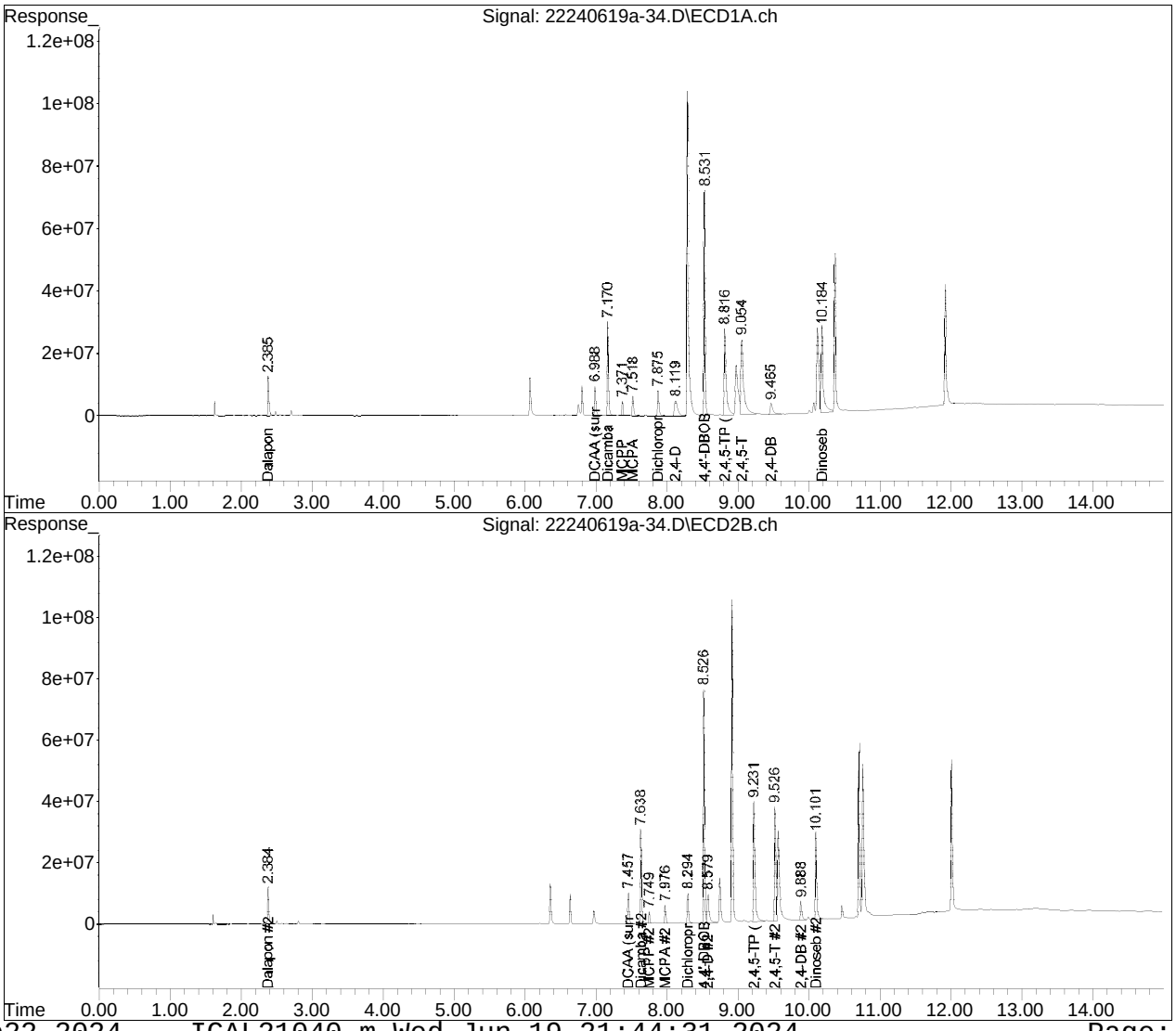
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 18:04
Operator : pest22:peg
Sample : wg1936304-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1936304,,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:25:15 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

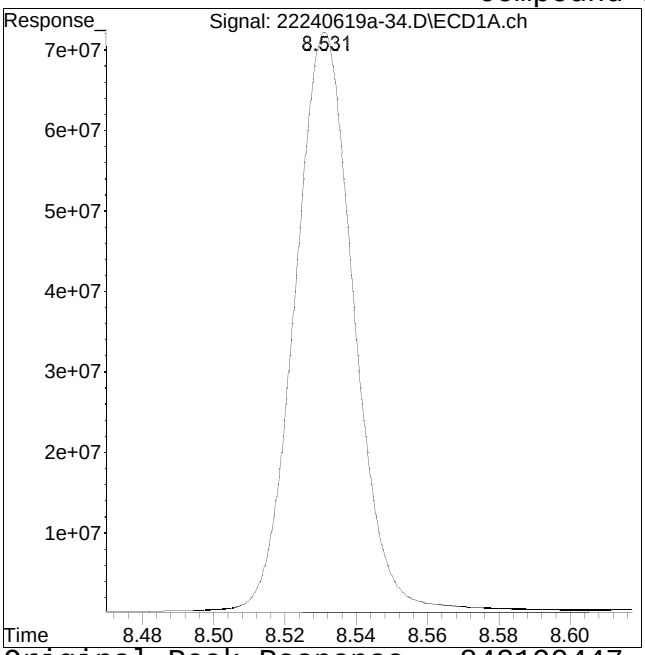
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

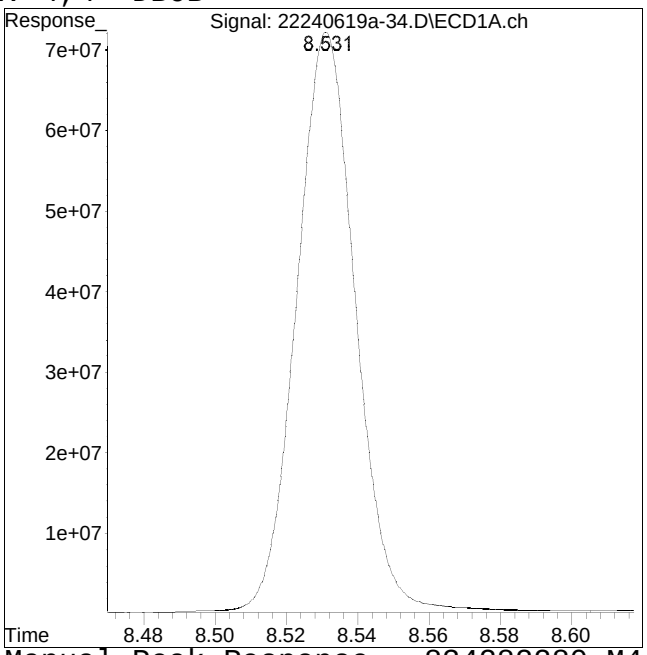


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #1: 4,4'-DBOB



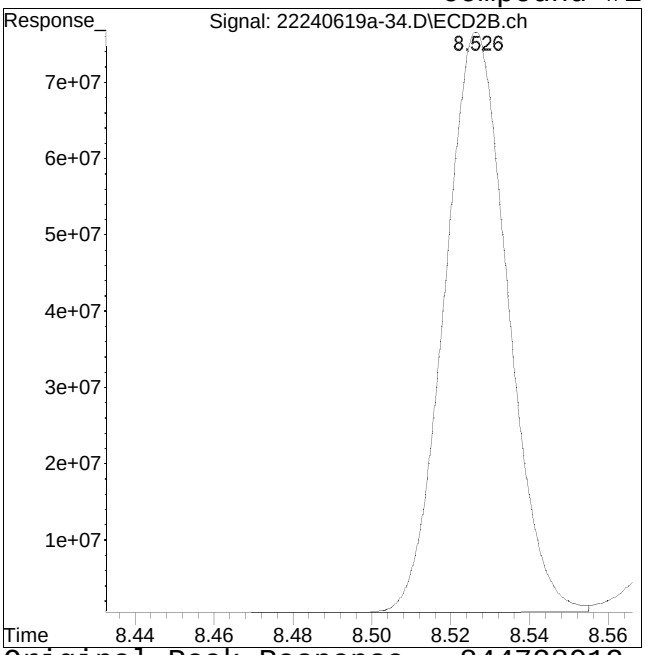


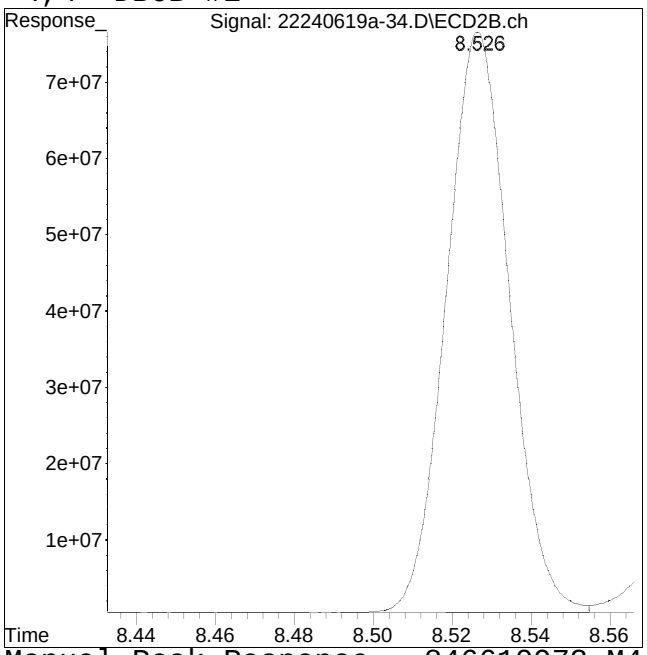
Original Peak Response = 842199447 Manual Peak Response = 834282280 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #14: 4,4'-DBOB #2



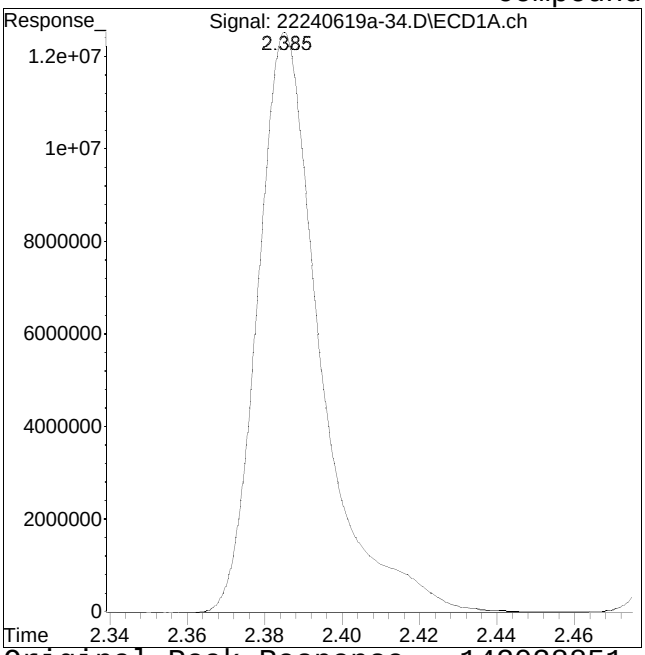


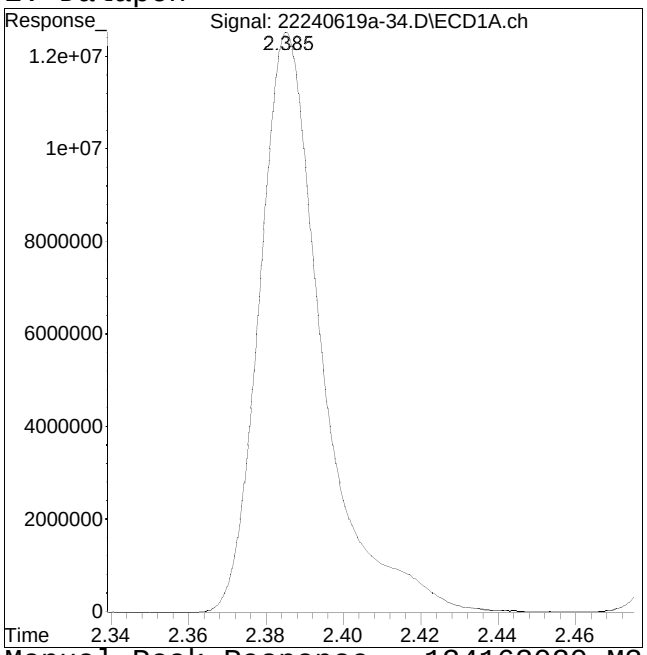
Original Peak Response = 844728912 Manual Peak Response = 846610973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #2: Dalapon



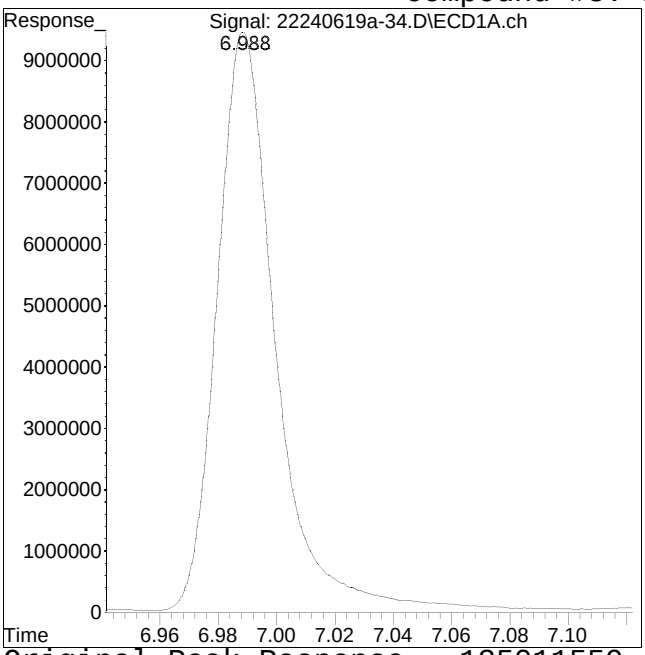


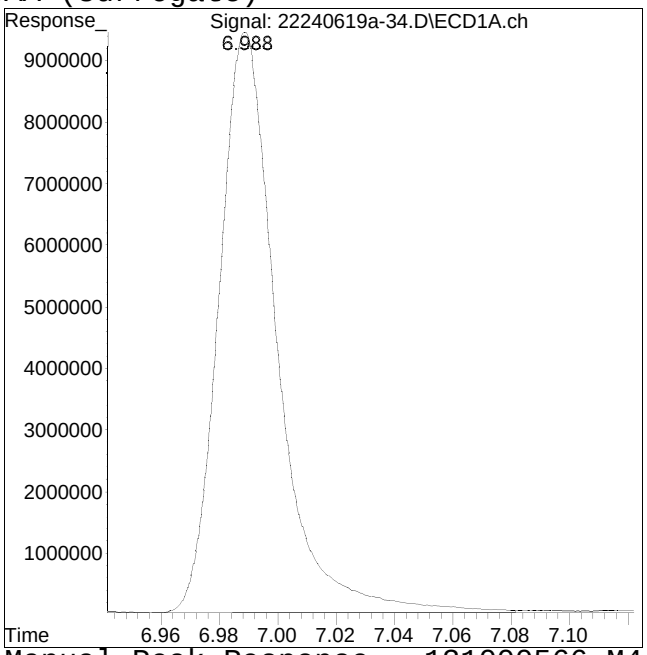
Original Peak Response = 142038851 Manual Peak Response = 134163020 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #3: DCAA (surrogate)



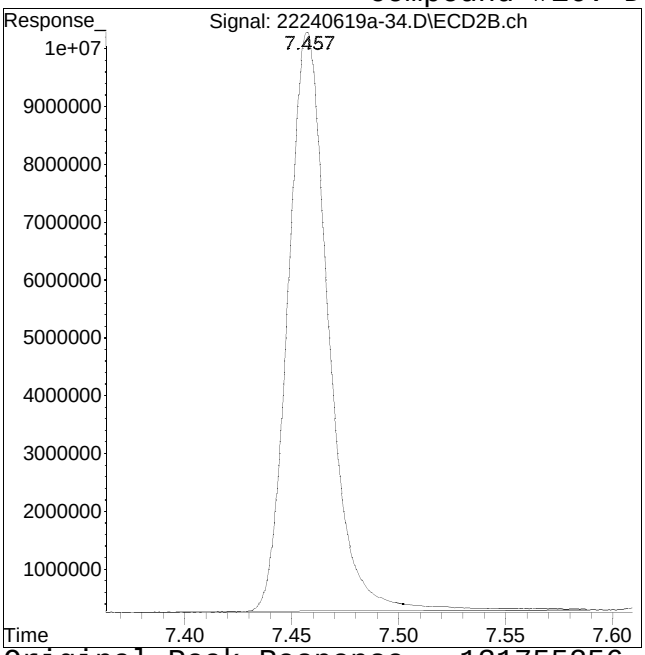


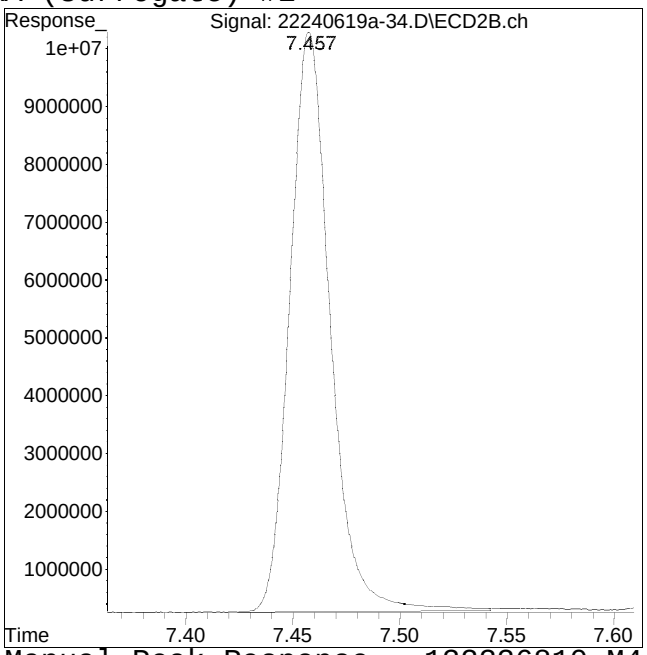
Original Peak Response = 135011559 Manual Peak Response = 131000566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #16: DCAA (surrogate) #2



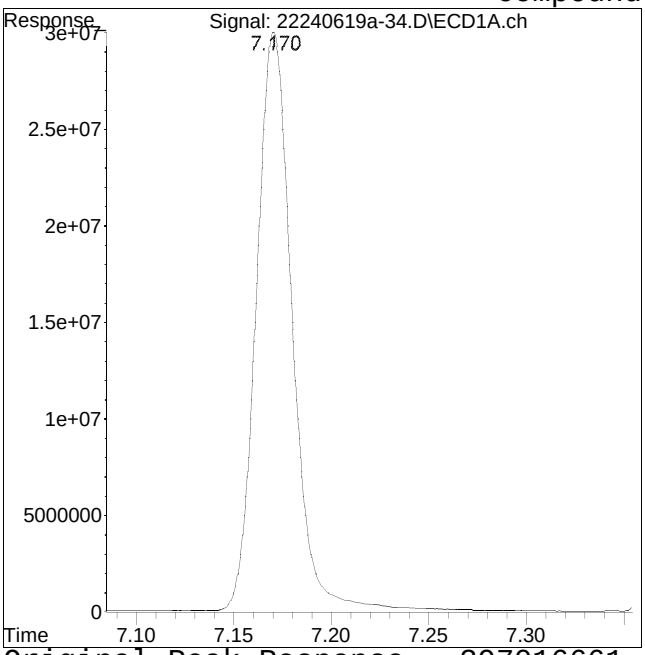


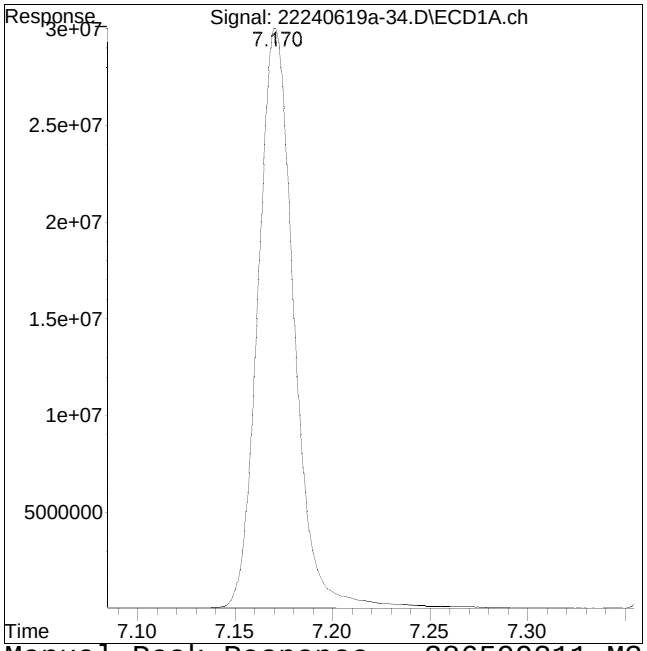
Original Peak Response = 131755256 Manual Peak Response = 132336810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #4: Dicamba



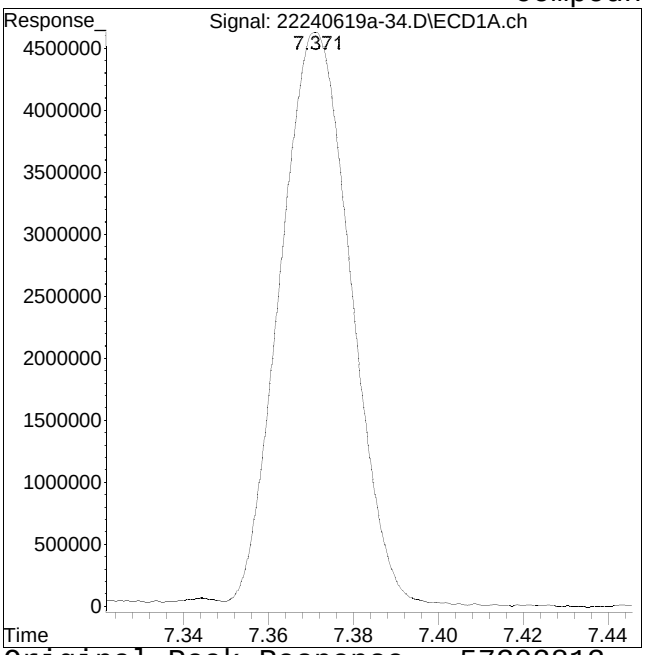


Original Peak Response = 397016661 Manual Peak Response = 386599211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

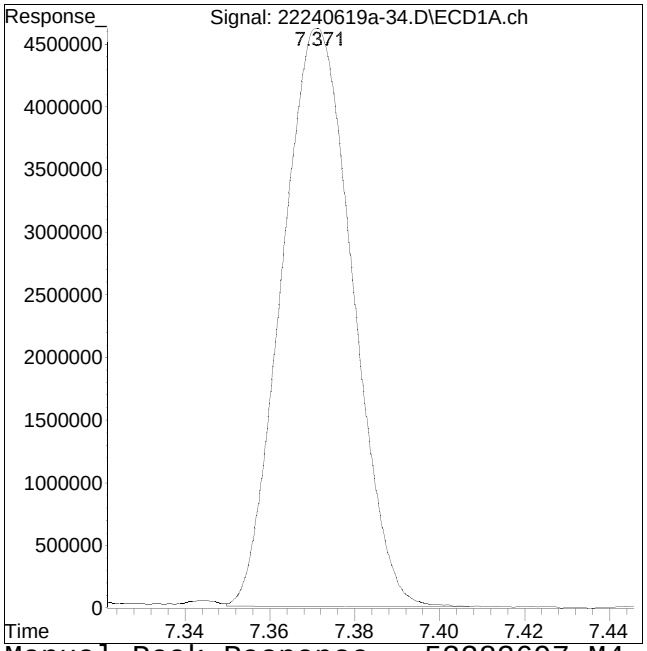
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #5: MCPP



Original Peak Response = 57302813



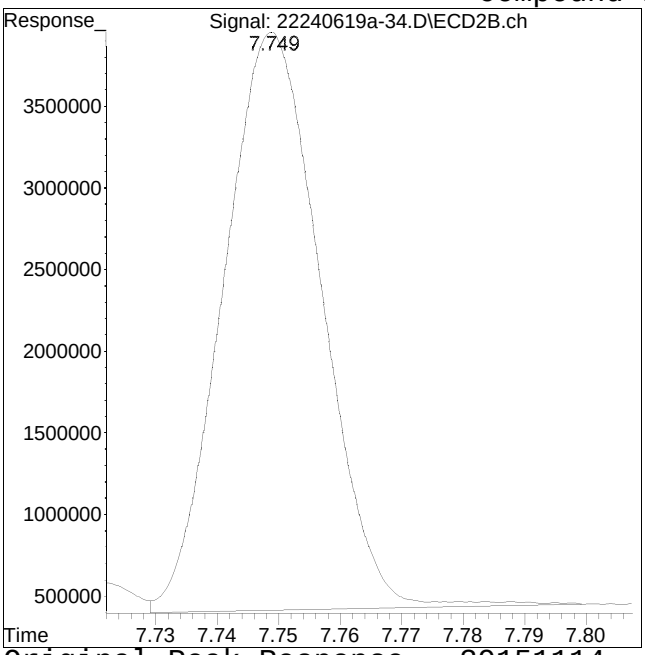
Manual Peak Response = 53283697 M4

M4 = Poor automated baseline construction.

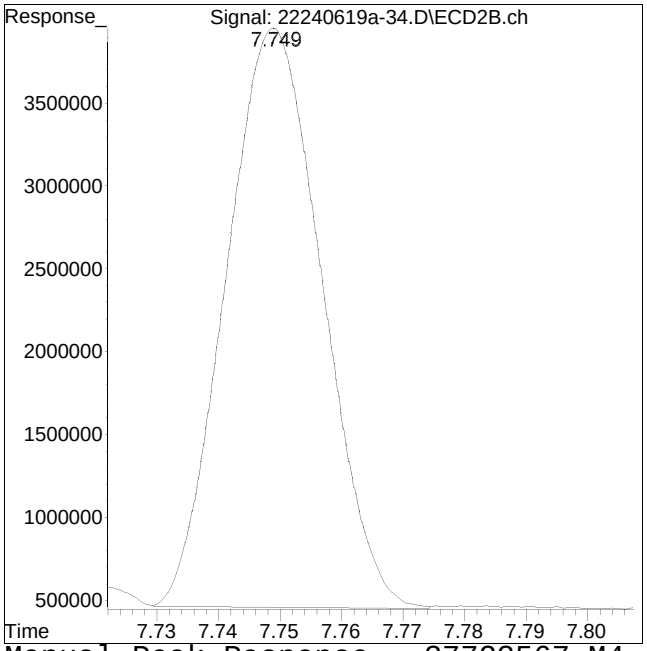
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #18: MCPP #2



Original Peak Response = 39151114



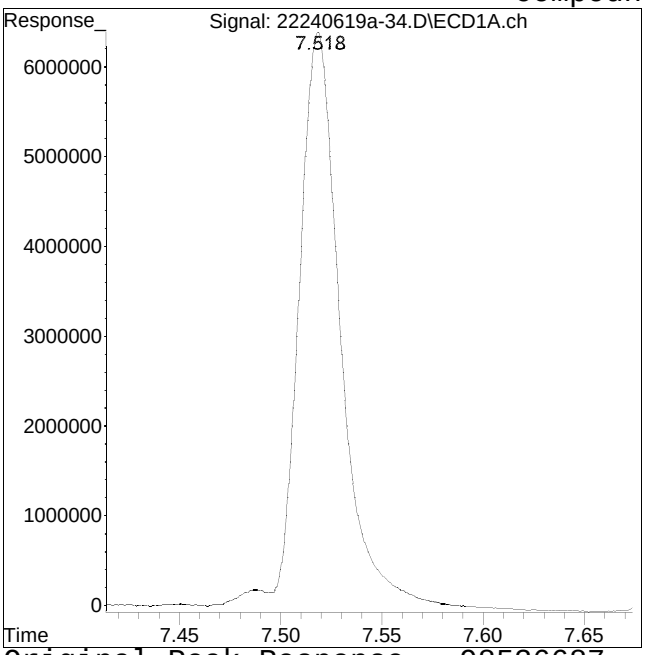
Manual Peak Response = 37723567 M4

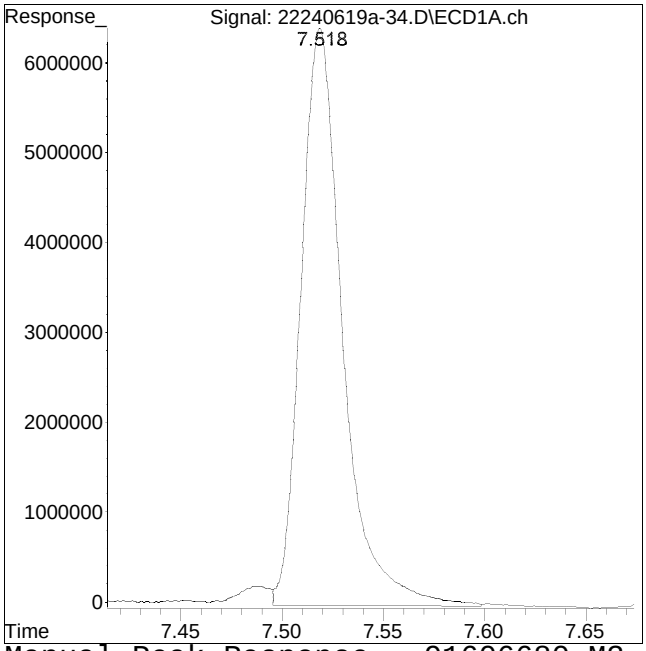
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #6: MCPA



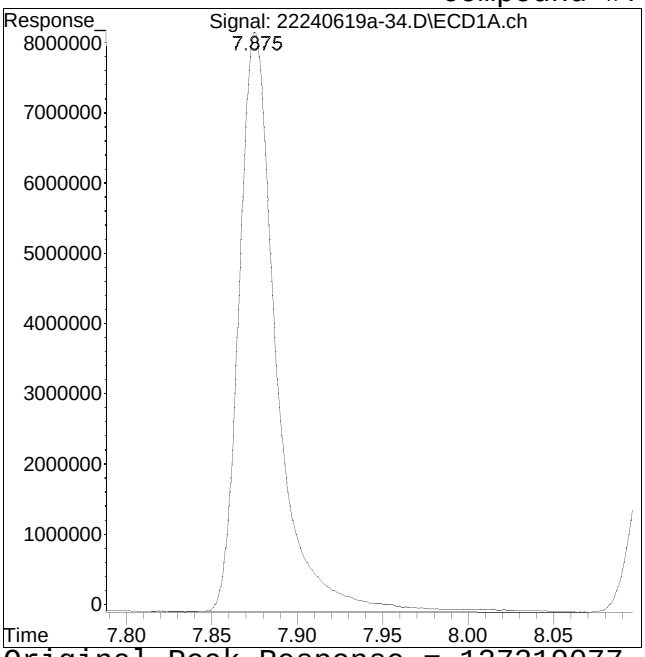


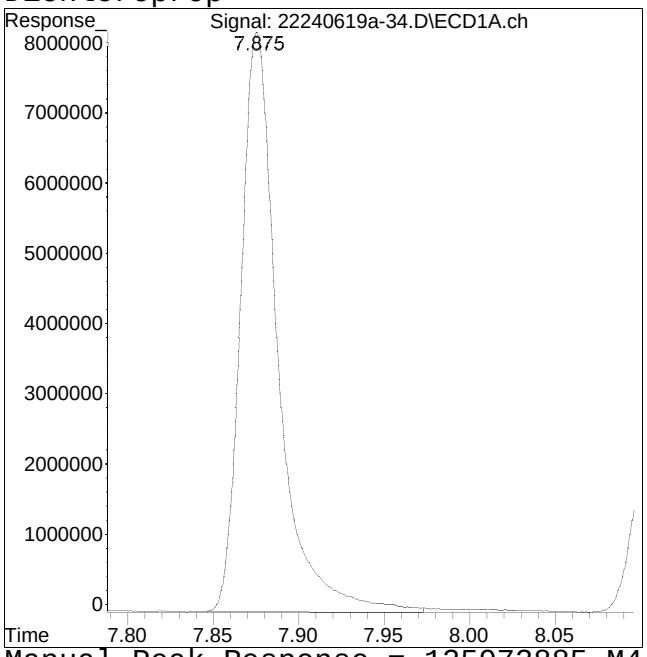
Original Peak Response = 98536687 Manual Peak Response = 91606680 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #7: Dichloroprop



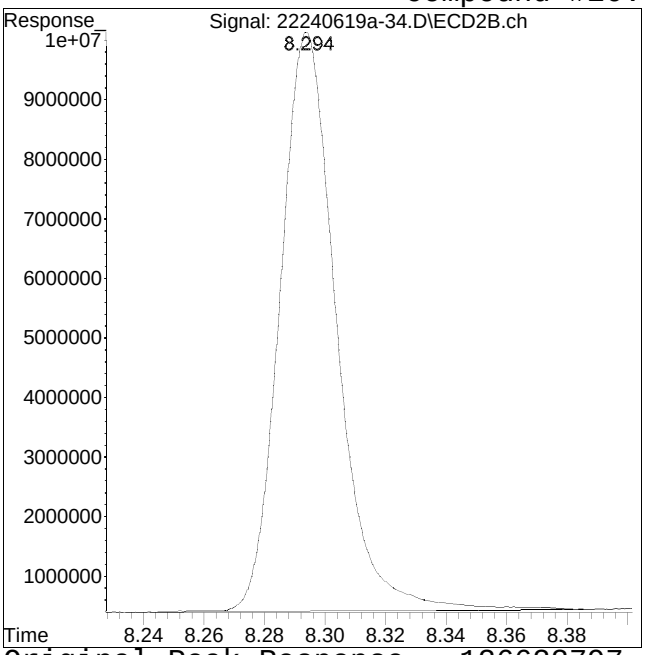


Original Peak Response = 127319077 Manual Peak Response = 125973885 M4
M4 = Poor automated baseline construction.

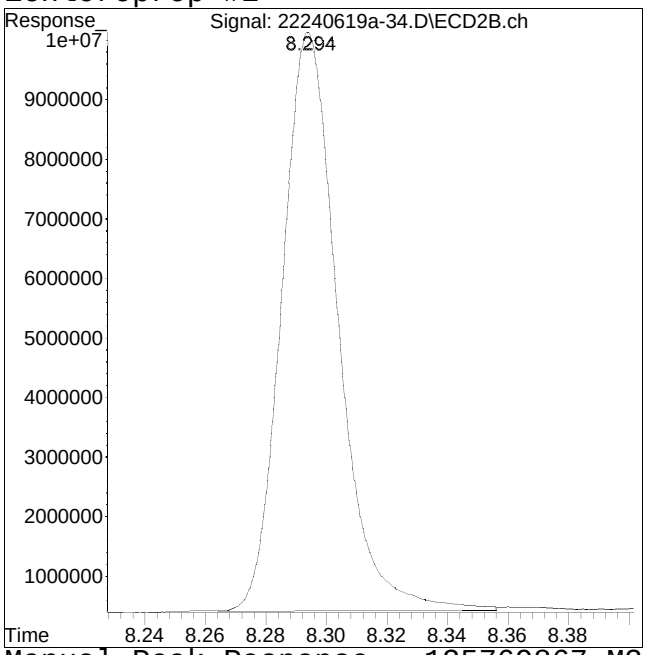
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #20: Dichloroprop #2



Original Peak Response = 126622797



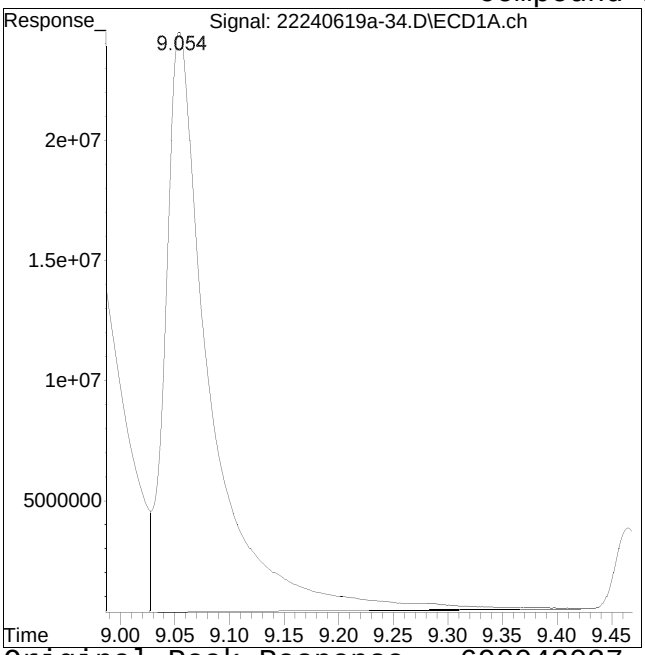
Manual Peak Response = 125769867 M3

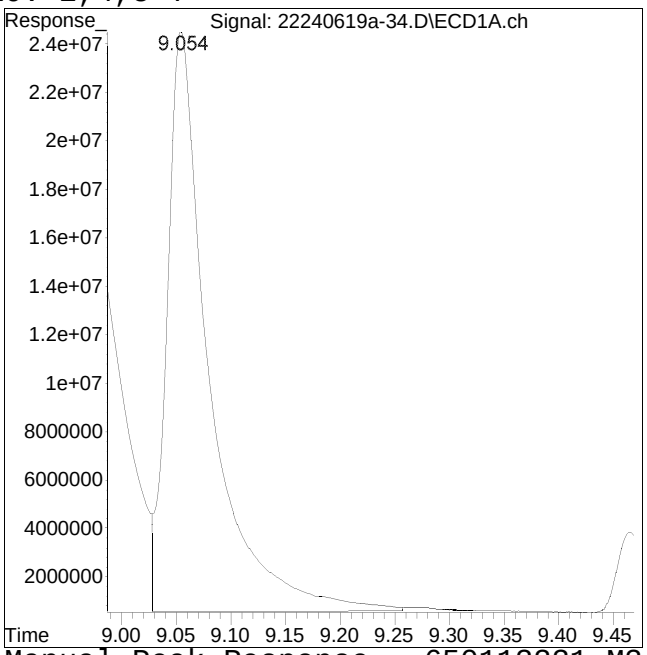
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #10: 2,4,5-T



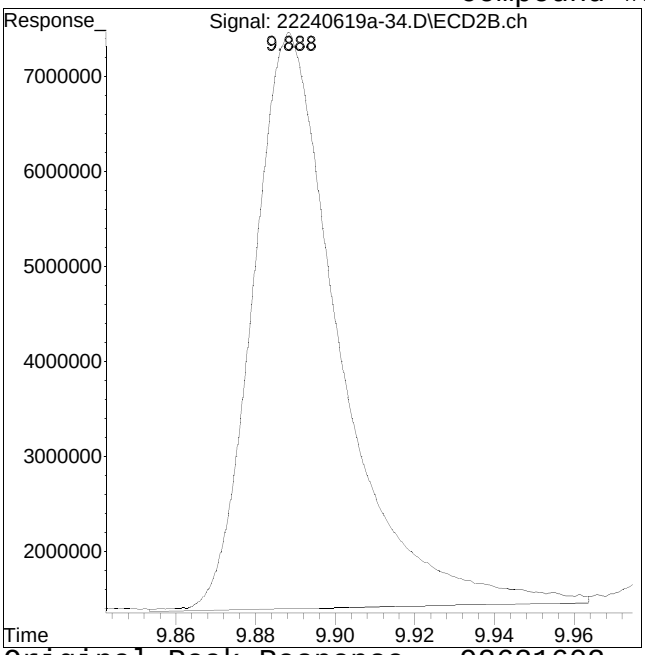


Original Peak Response = 690043037 Manual Peak Response = 650113331 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

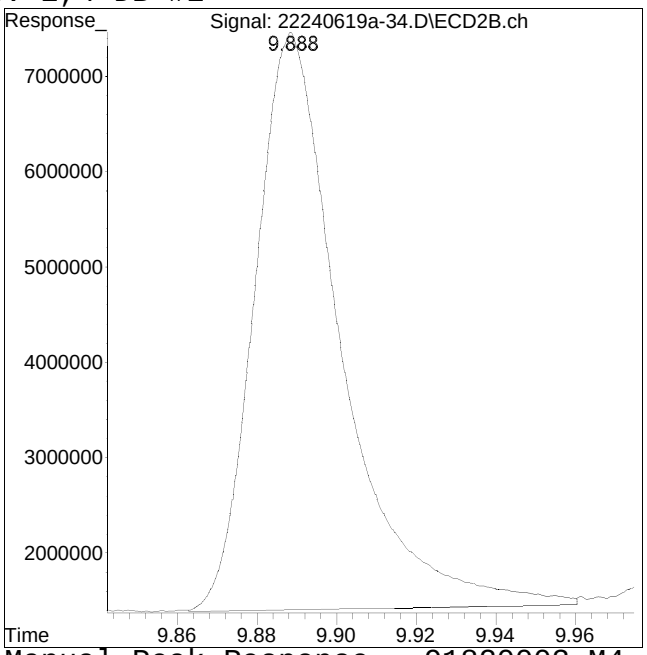
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #24: 2,4-DB #2



Original Peak Response = 92621602



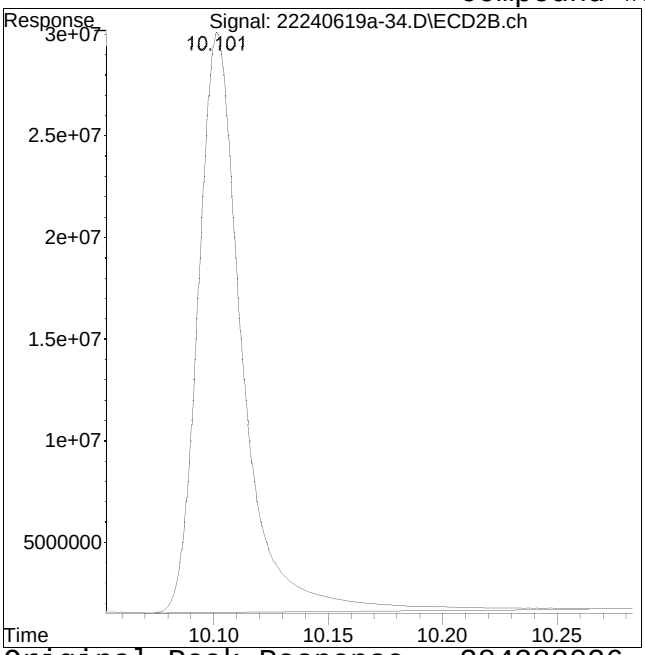
Manual Peak Response = 91820003 M4

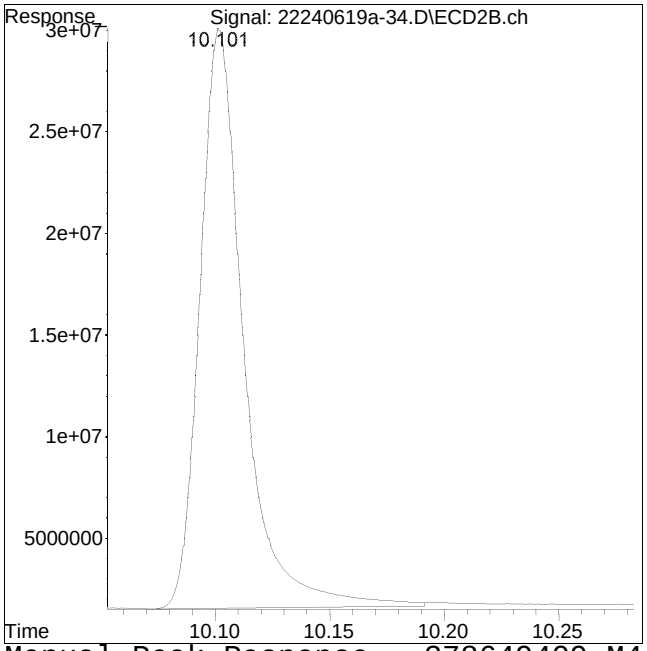
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-34.D Operator : pest22:peg
Date Inj'd : 6/19/2024 18:04 Instrument : Pest22
Sample : wg1936304-3,42,,herb11561 Quant Date : 6/19/2024 6:25 pm

Compound #25: Dinoseb #2





Original Peak Response = 384382026 Manual Peak Response = 378649409 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:02 pm
Operator : pest22:EJL
Sample : WG1935934-1,42,, 934 (Sig #1); WG1935965-1,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:41 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.532	8.527	811.5E6	836.7E6	0.250	0.250M3
Standard Area 1 : #1 = 883326324				Recovery =	91.87%	
Standard Area 1 : #2 = 891276115				Recovery =	93.88%	
System Monitoring Compounds						
3) s DCAA (surrog	6.991	7.457	327.2E6	302.7E6	0.490M4	0.446M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	98.00%	89.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D.
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

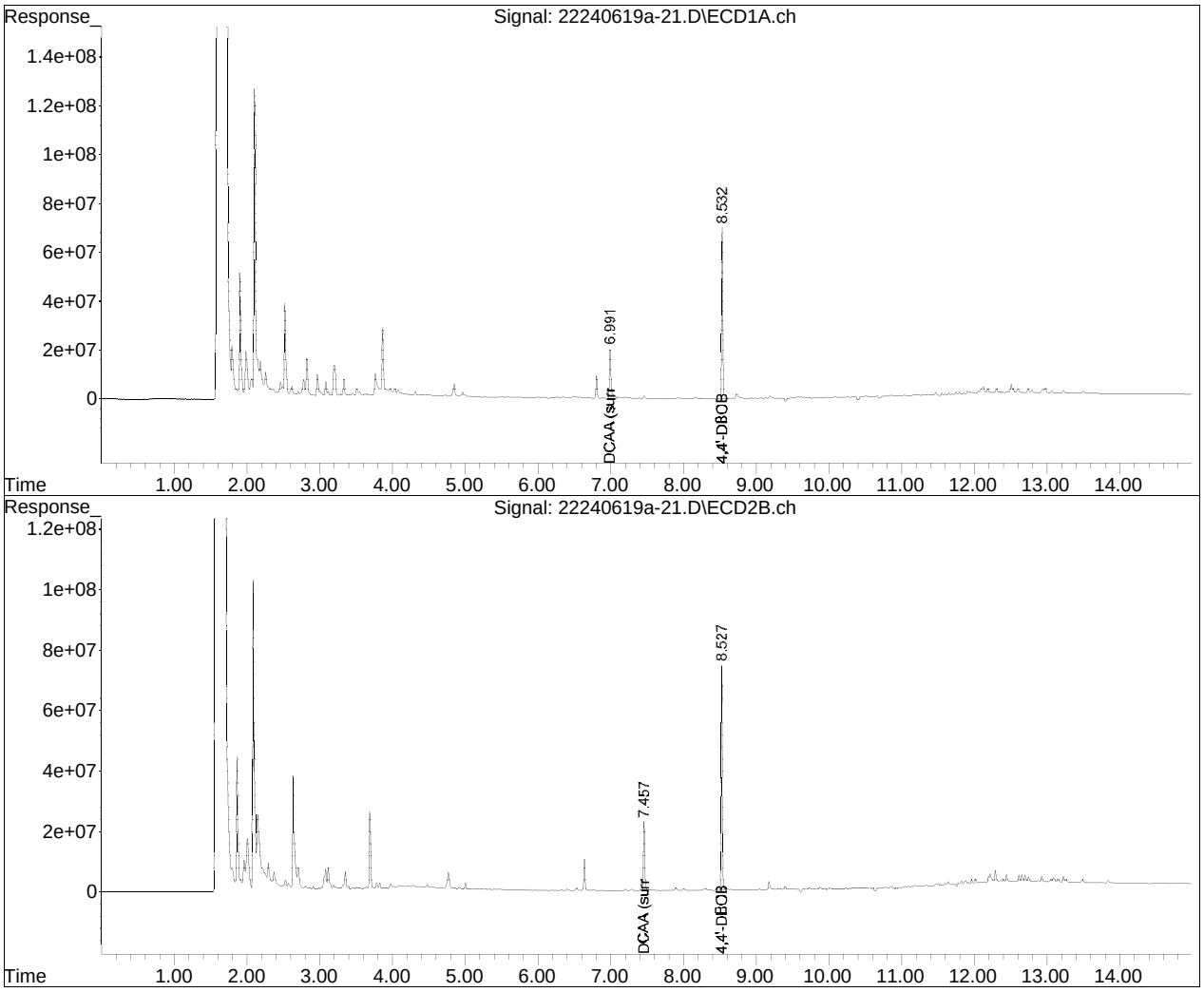
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:02 pm
Operator : pest22:EJL
Sample : WG1935934-1,42,, 934 (Sig #1); WG1935965-1,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:41 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

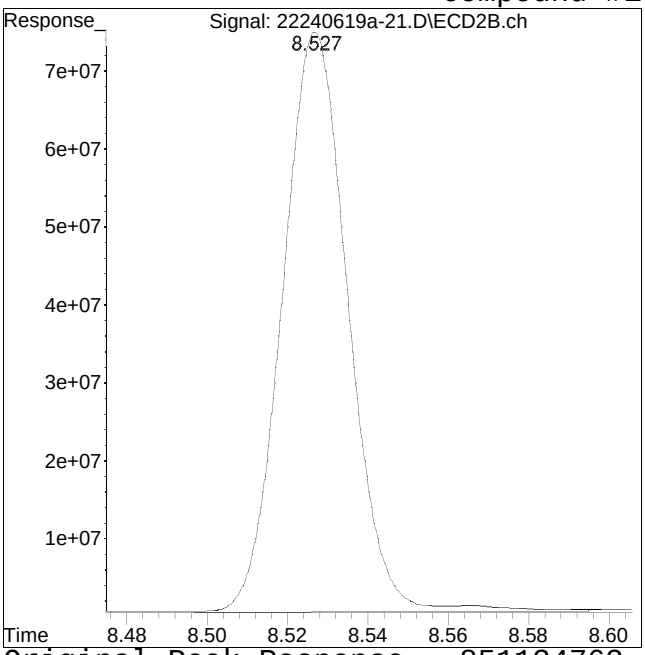
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

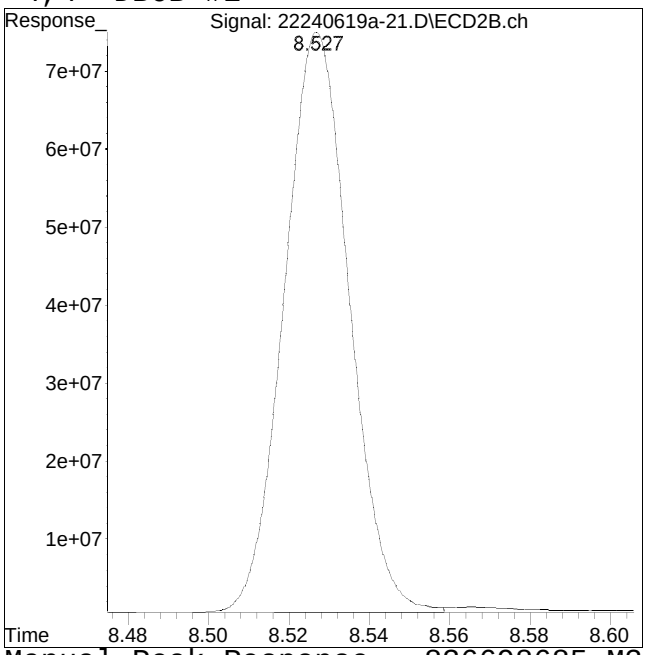


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



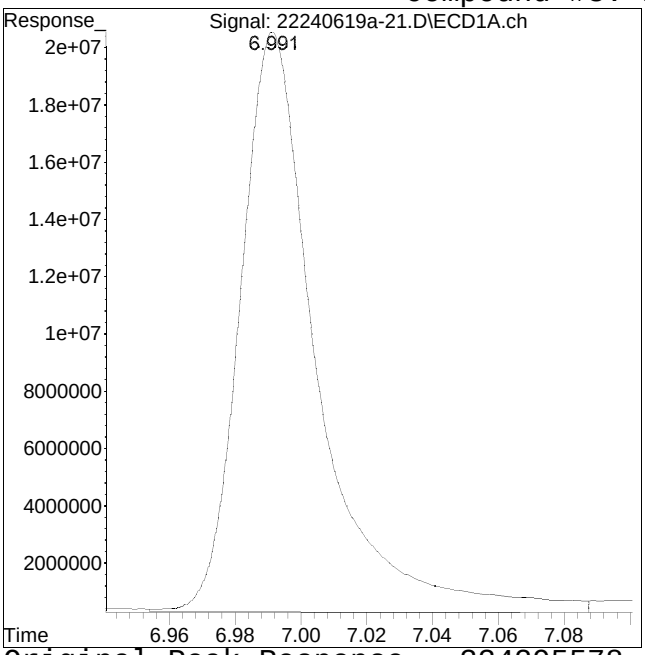


Original Peak Response = 851134763 Manual Peak Response = 836698685 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

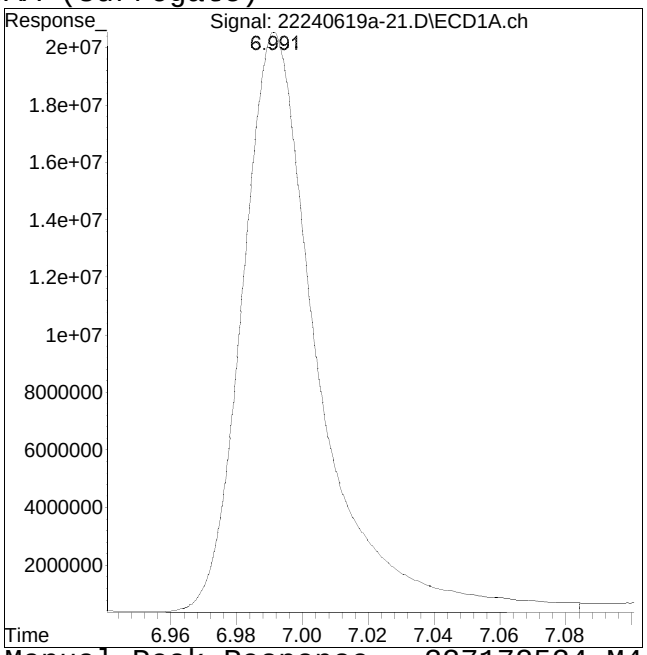
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 334295578



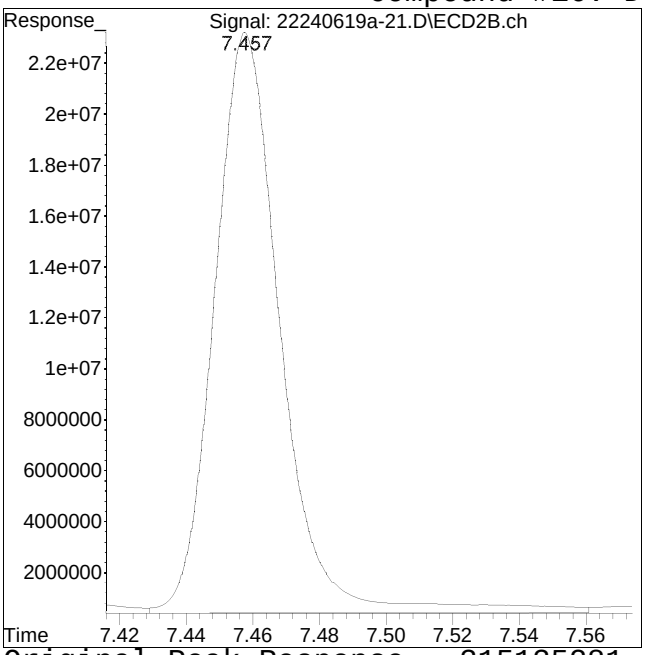
Manual Peak Response = 327172524 M4

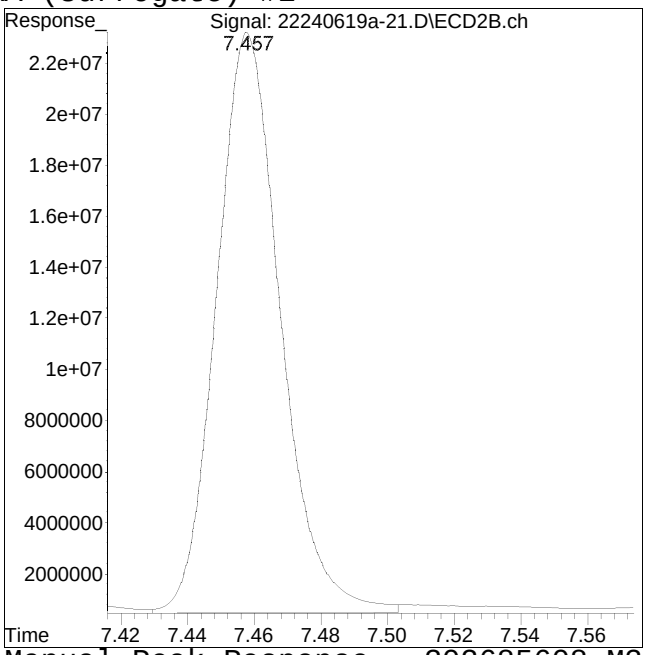
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-21.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:02 pm Instrument : Pest22
Sample : WG1935934-1,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2





Original Peak Response = 315135281 Manual Peak Response = 302685608 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.530	8.526	809.7E6	824.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	91.67%	
	Standard Area 1 : #2 = 891276115				Recovery =	92.50%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.456	250.3E6	284.1E6	0.376M3	0.425M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	75.20%	85.00%
	Target Compounds						
2) t	Dalapon	2.390	2.388	239.3E6	269.5E6	0.350M4	0.414M4
4) t	Dicamba	7.169	7.637	752.7E6	757.2E6	0.394M3	0.387M3
5) t	MCPP	7.371	7.749	108.2E6	87458227	64.099M4	36.033M4
6) t	MCPA	7.517	7.974	157.1E6	175.8E6	50.191M4	42.997M3
7) t	Dichloroprop	7.873	8.293	231.0E6	243.1E6	0.369M3	0.384M4
8) t	2,4-D	8.092f	8.569f	295.1E6	431.4E6	0.380M3	0.551M4
9) t	2,4,5-TP (Si	8.804f	9.224	1089.4E6	1325.1E6	0.388M4	0.469M4
10) t	2,4,5-T	9.024f	9.514f	1190.3E6	1163.2E6	0.431M2	0.425M4
11) t	2,4-DB	9.429f	9.873f	172.9E6	185.1E6	0.404M3	0.399M3
12) t	Dinoseb	10.178	10.097	649.2E6	628.6E6	0.407M3	0.388M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

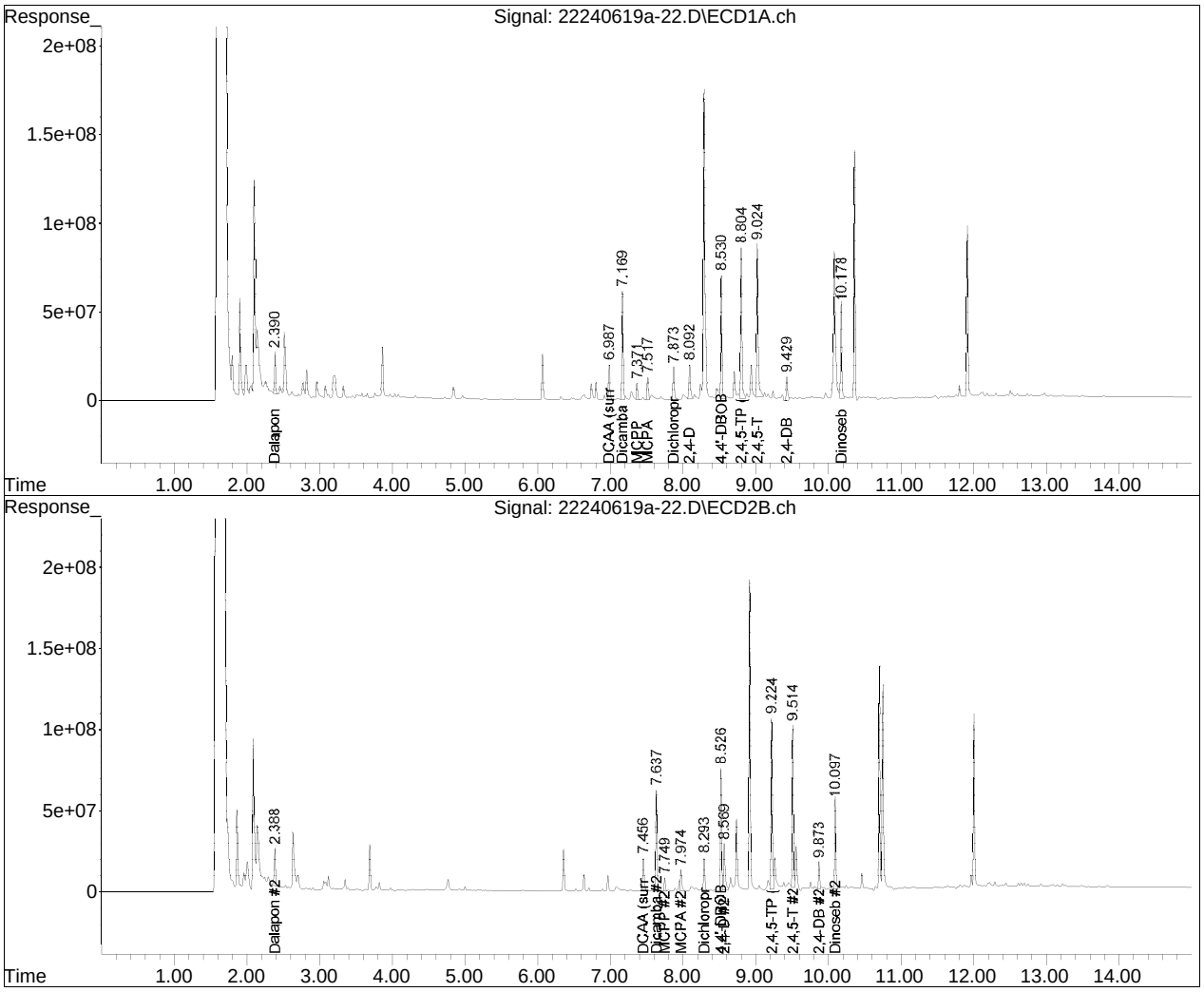
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:21 pm
Operator : pest22:EJL
Sample : WG1935934-2,42,, 934 (Sig #1); WG1935965-2,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:42 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

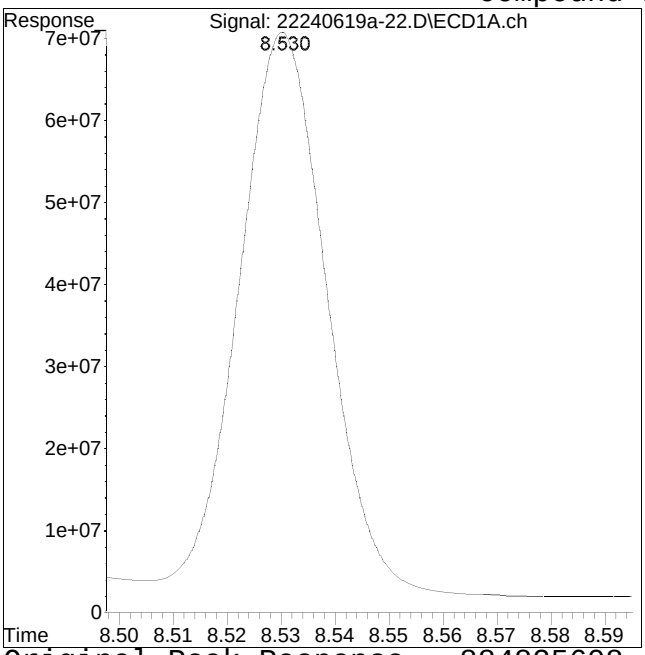
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



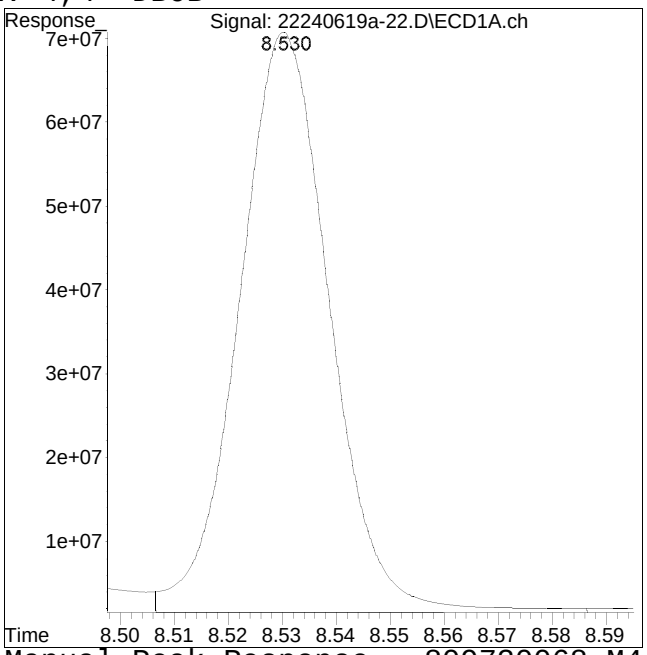
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 884825608



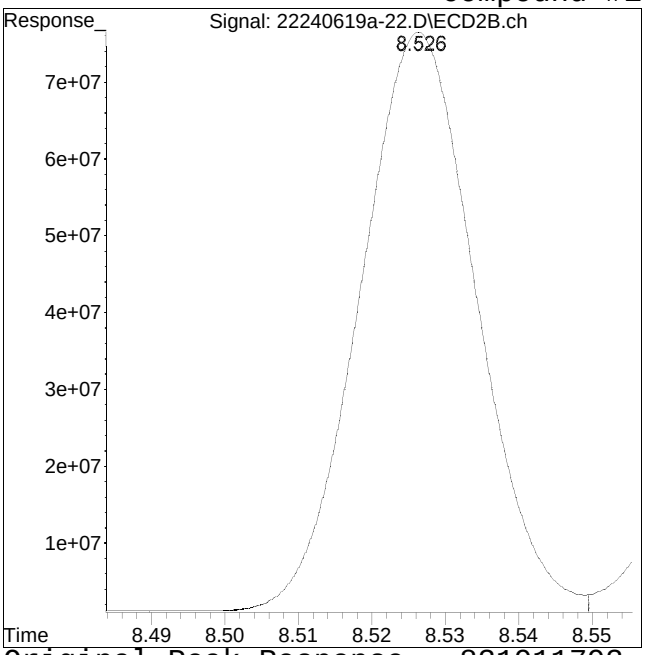
Manual Peak Response = 809730068 M4

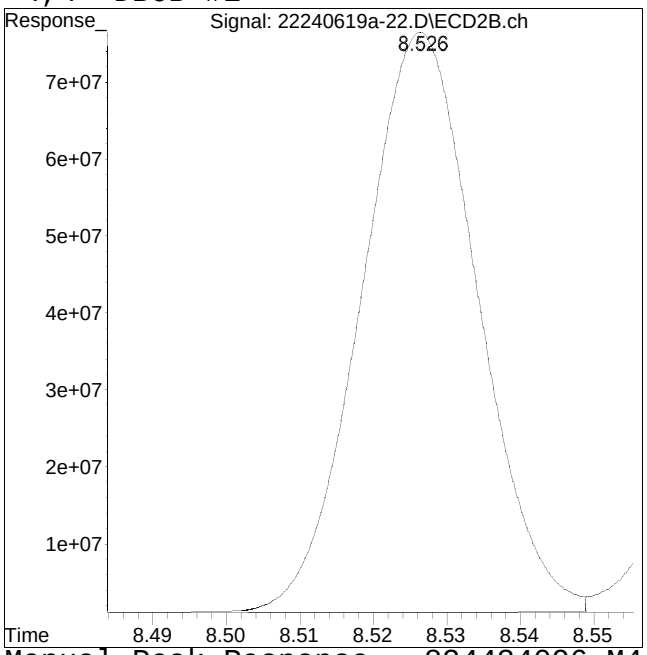
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



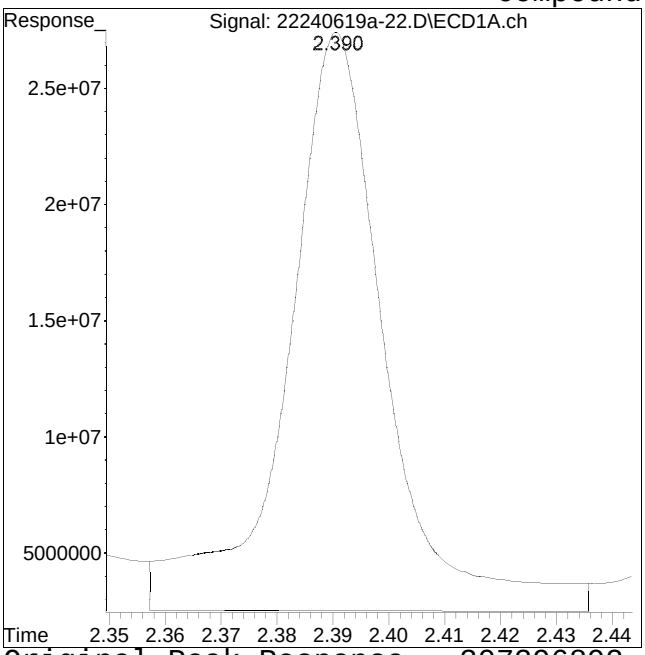


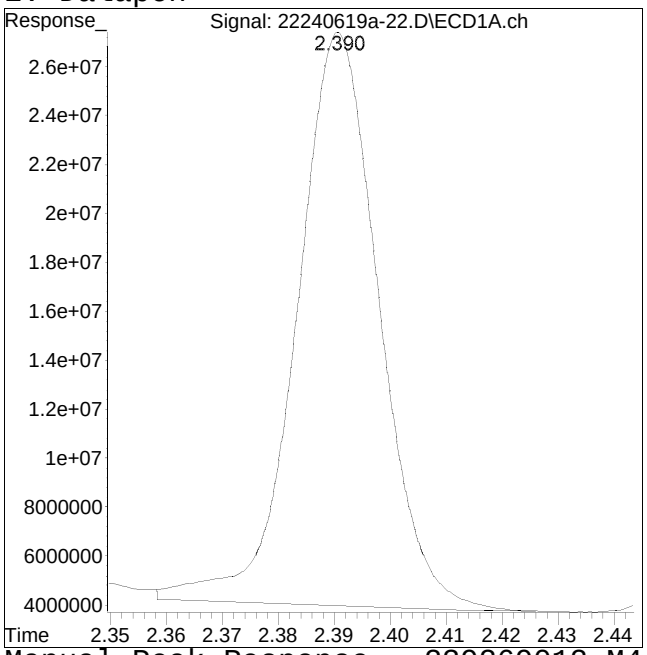
Original Peak Response = 831911793 Manual Peak Response = 824434096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #2: Dalapon



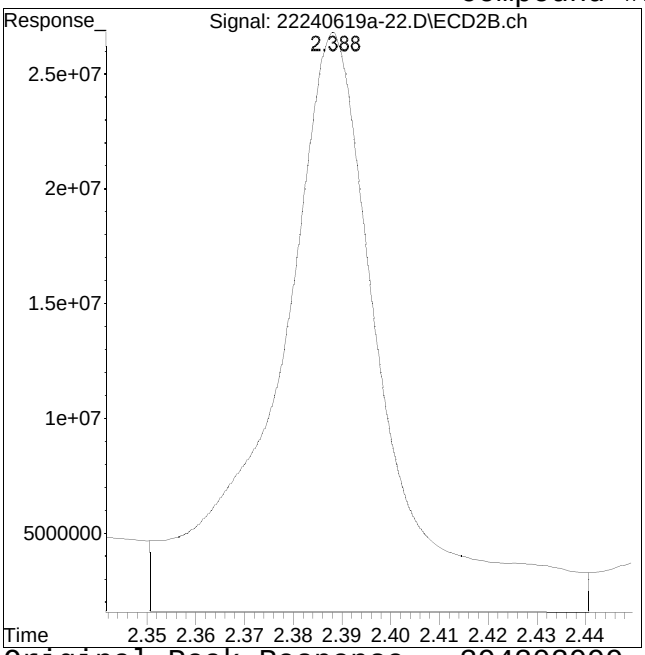


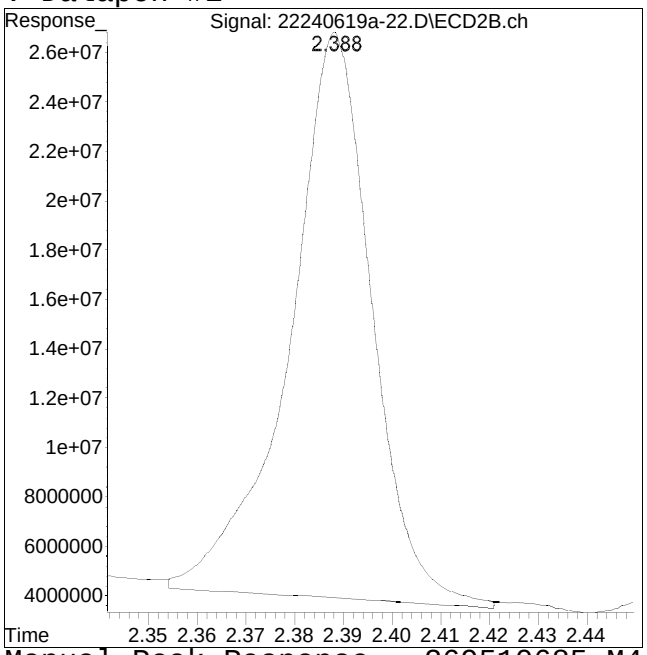
Original Peak Response = 307396892 Manual Peak Response = 239269012 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #15: Dalapon #2



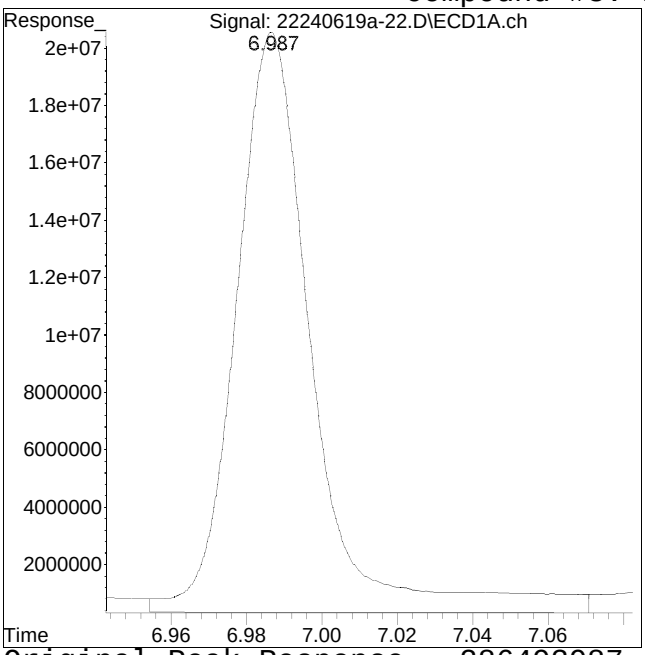


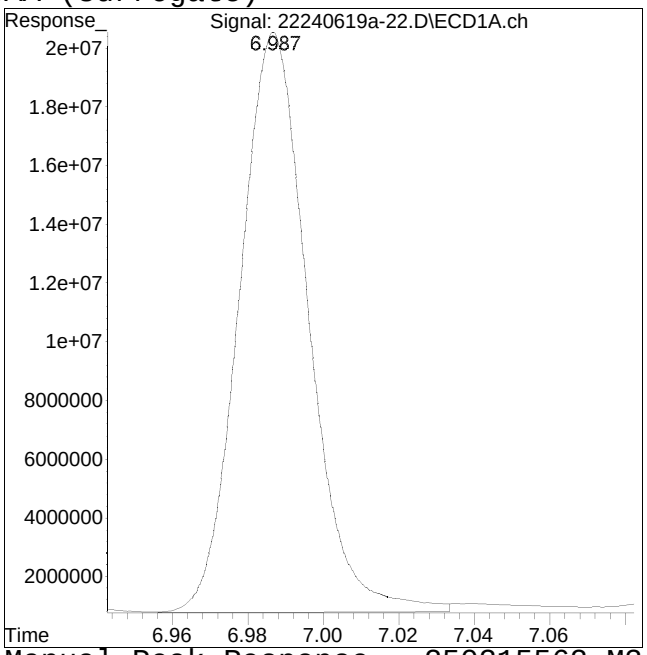
Original Peak Response = 394302999 Manual Peak Response = 269510685 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



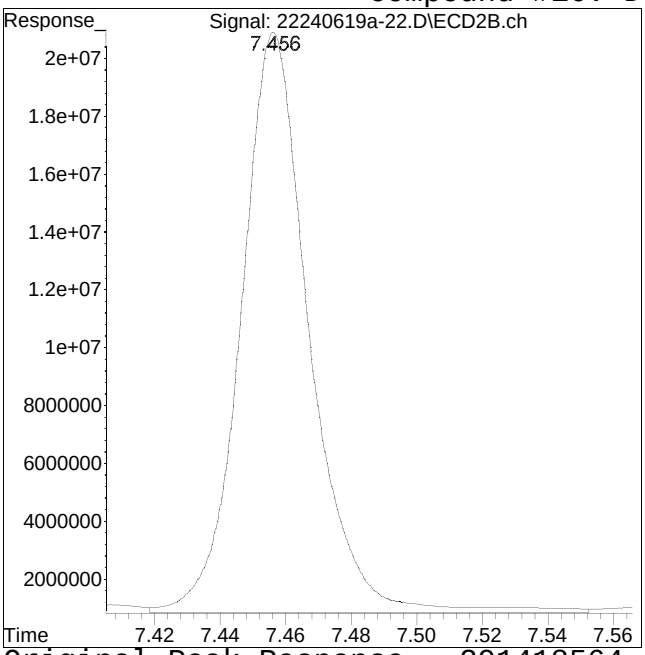


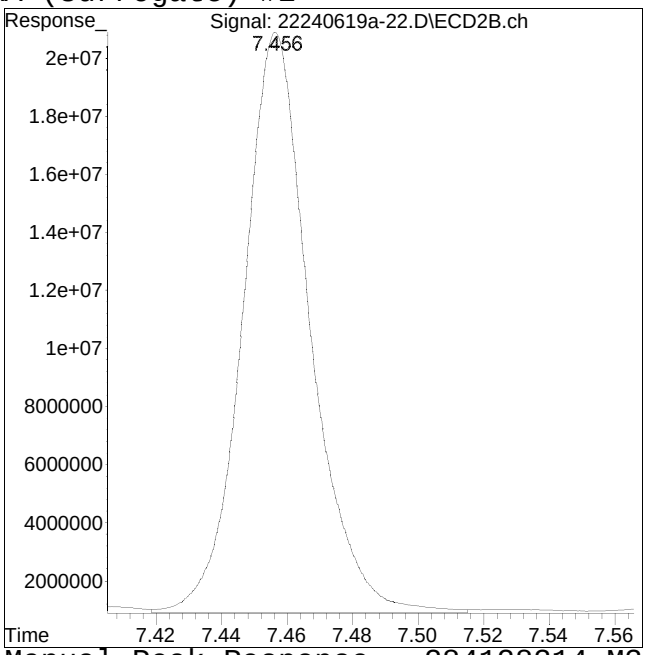
Original Peak Response = 286493987 Manual Peak Response = 250315562 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2



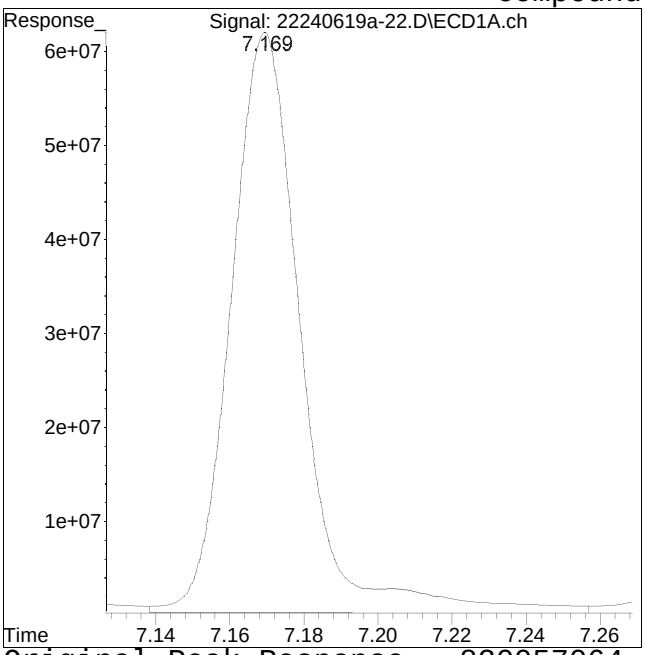


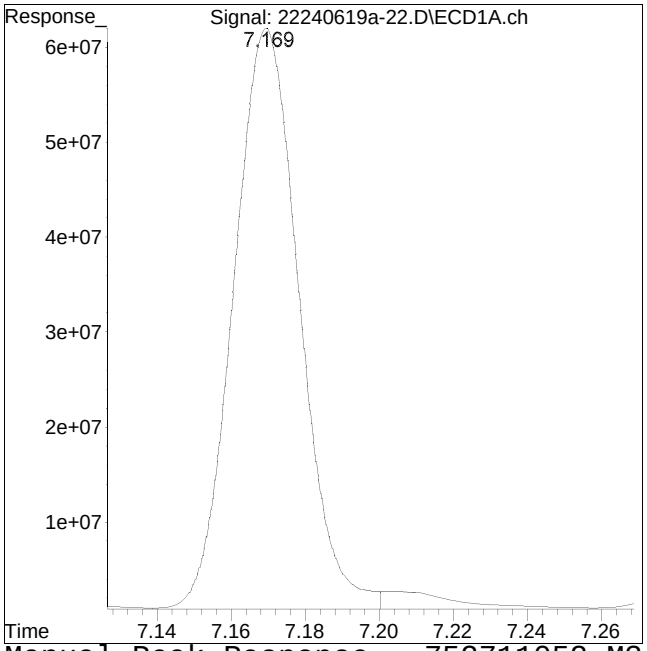
Original Peak Response = 291418564 Manual Peak Response = 284128314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #4: Dicamba



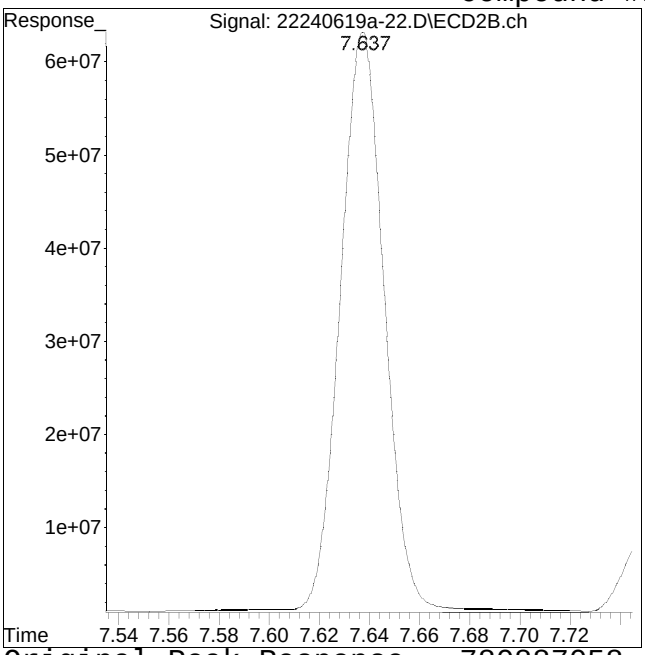


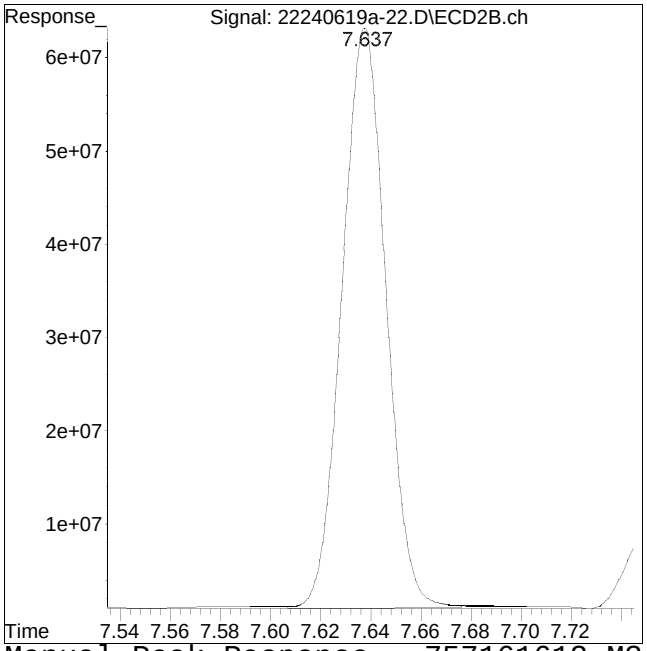
Original Peak Response = 820057064 Manual Peak Response = 752711052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #17: Dicamba #2



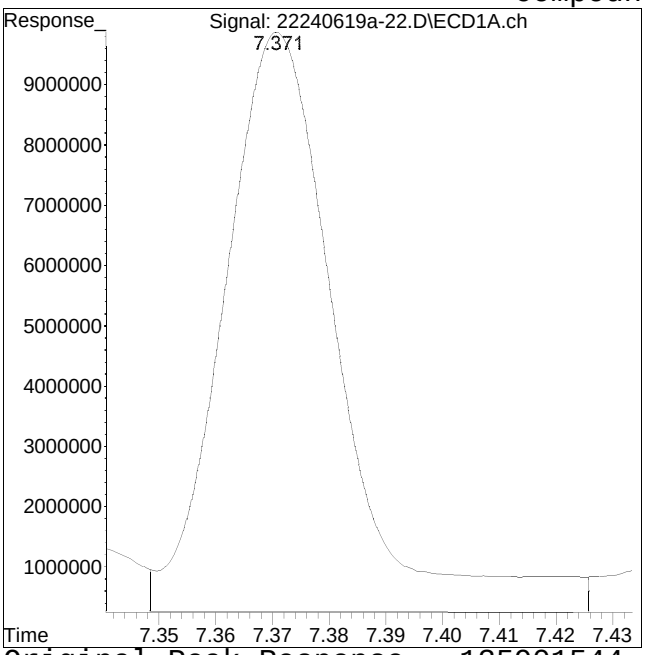


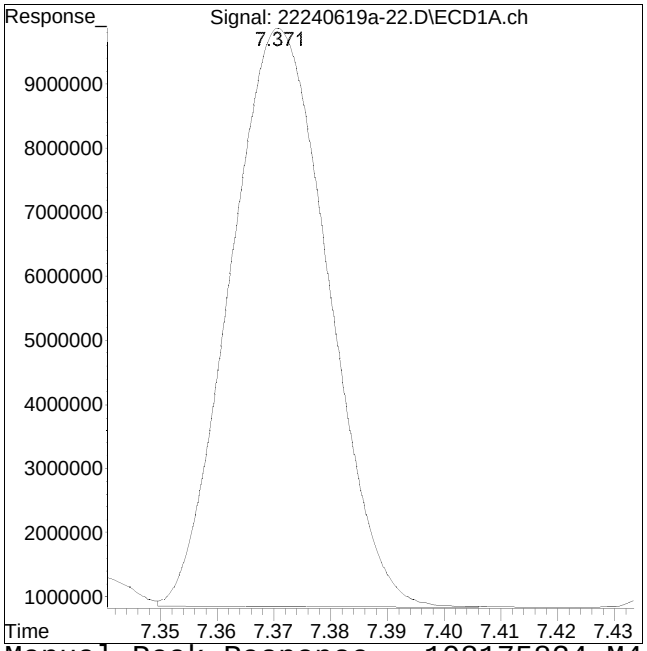
Original Peak Response = 780887058 Manual Peak Response = 757161612 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #5: MCPP



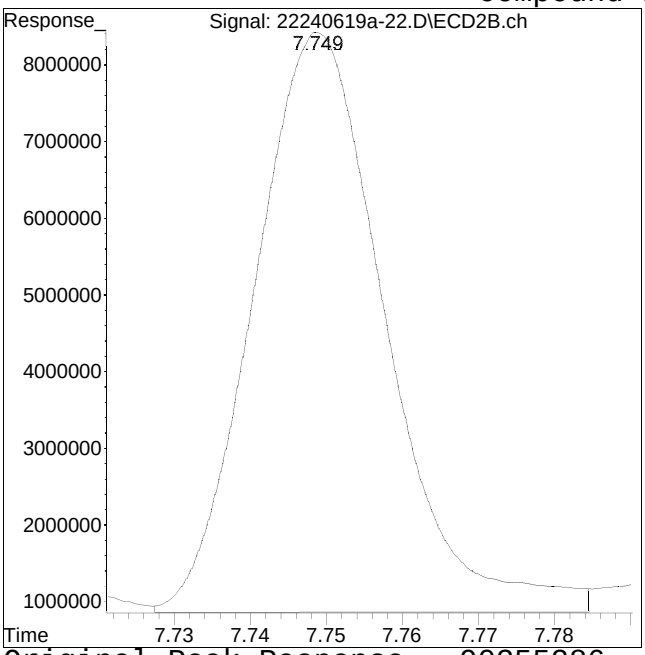


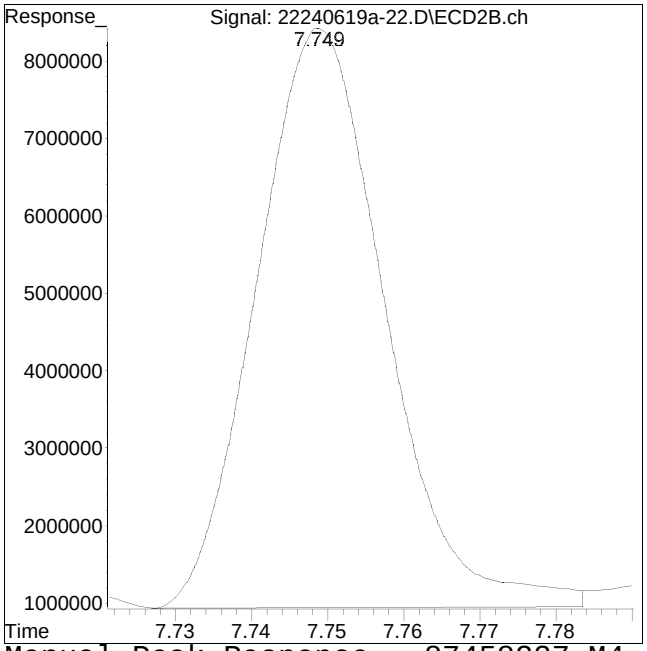
Original Peak Response = 135901544 Manual Peak Response = 108175824 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #18: MCPP #2



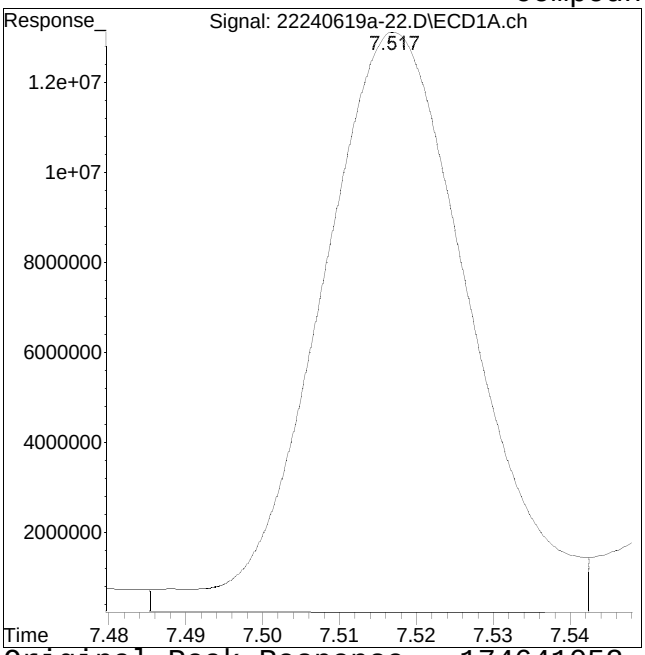


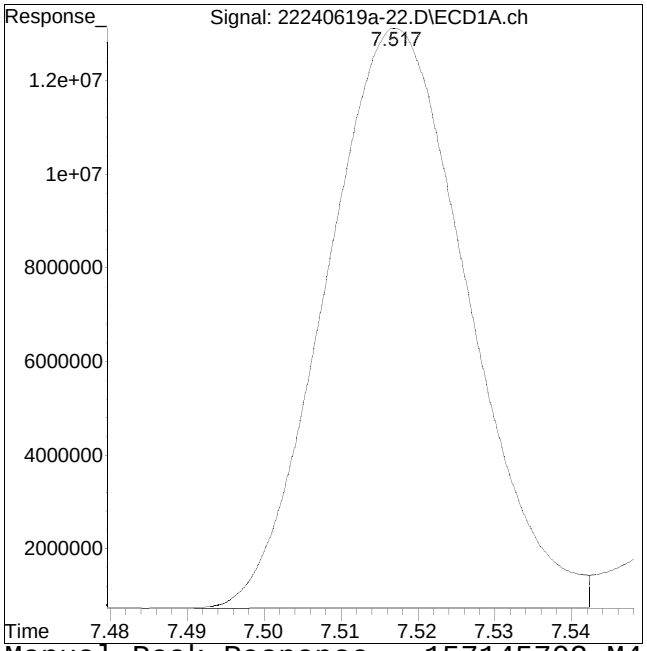
Original Peak Response = 90355286 Manual Peak Response = 87458227 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #6: MCPA



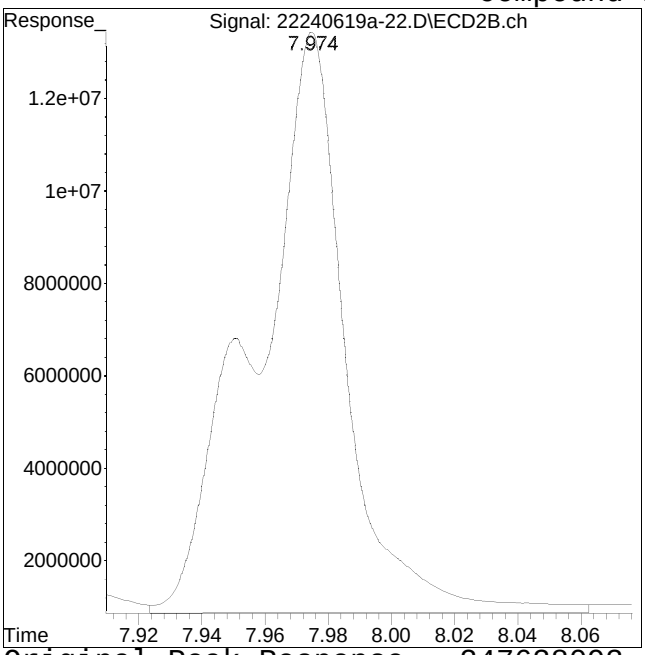


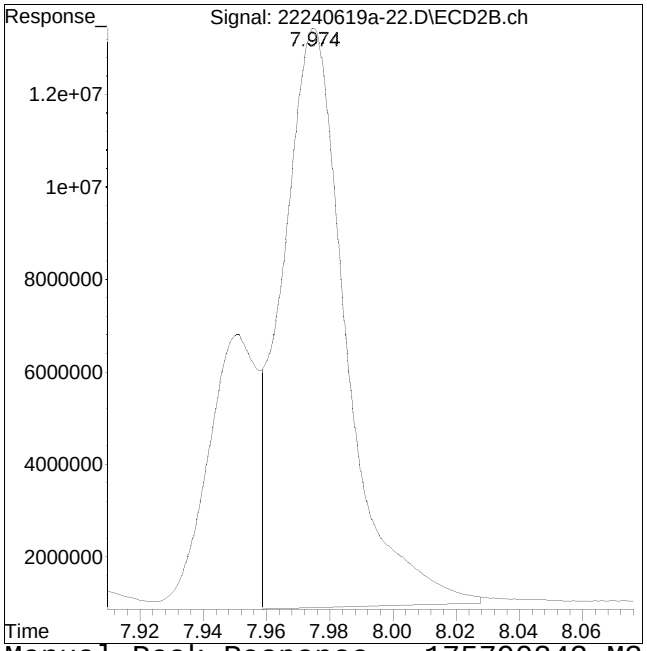
Original Peak Response = 174641052 Manual Peak Response = 157145702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #19: MCPA #2



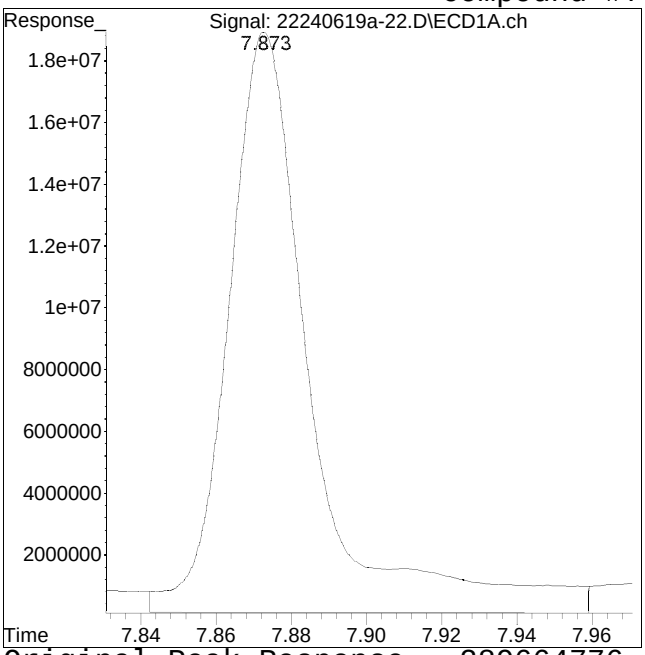


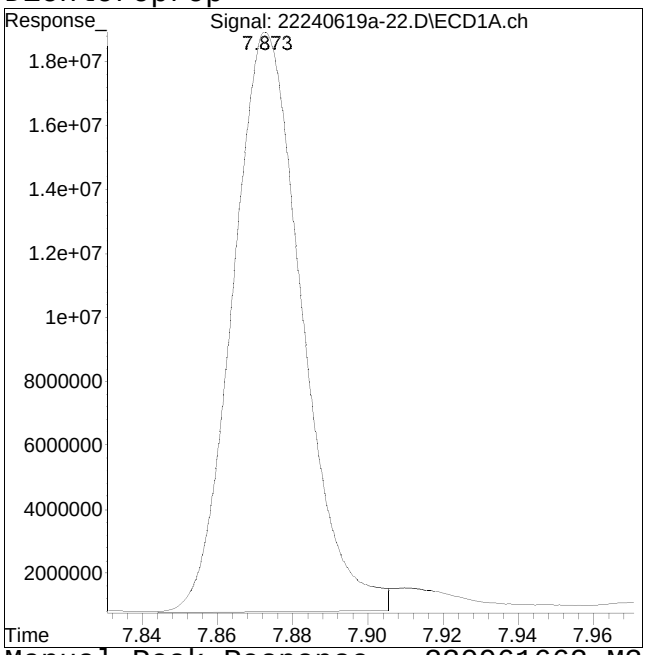
Original Peak Response = 247638093 Manual Peak Response = 175790243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #7: Dichloroprop



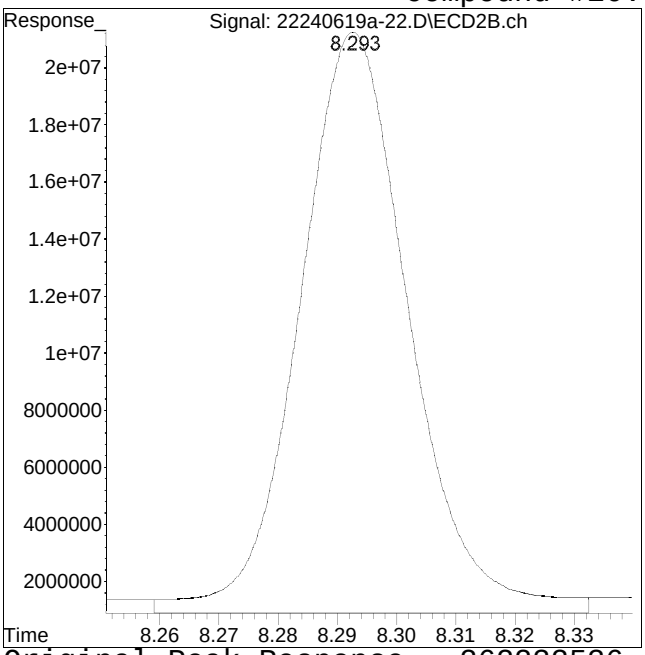


Original Peak Response = 289664776 Manual Peak Response = 230961662 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

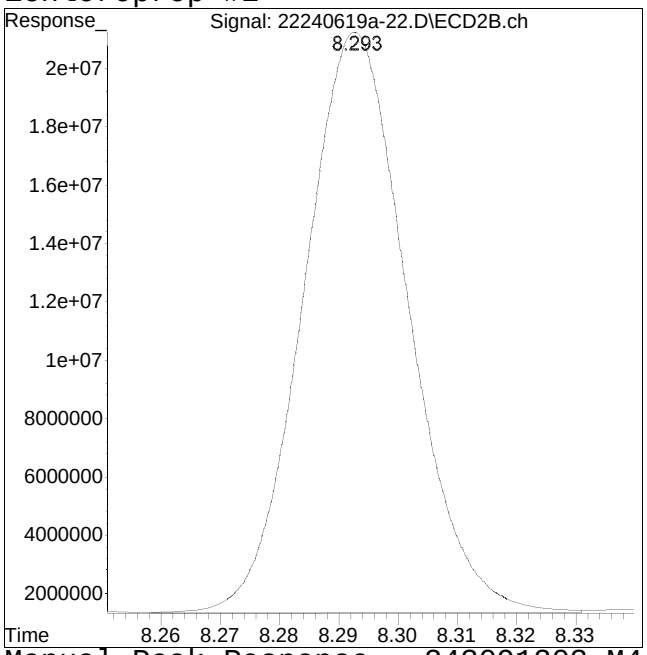
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #20: Dichloroprop #2



Original Peak Response = 262232536



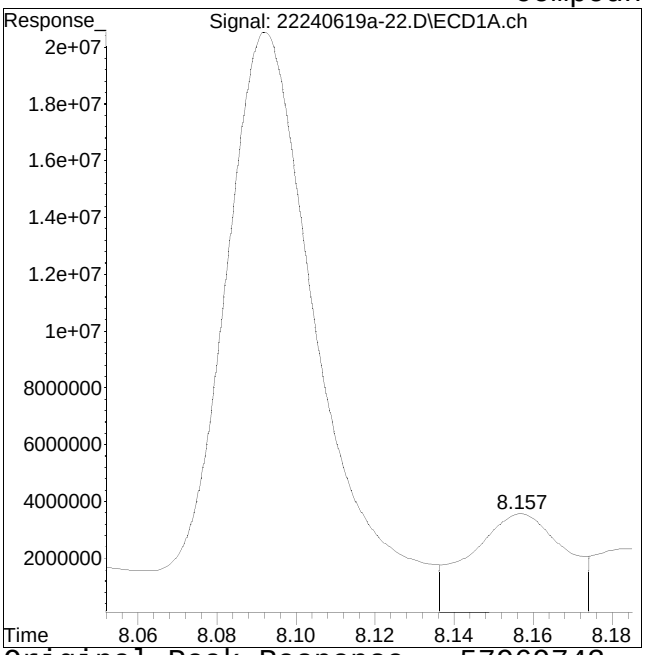
Manual Peak Response = 243091203 M4

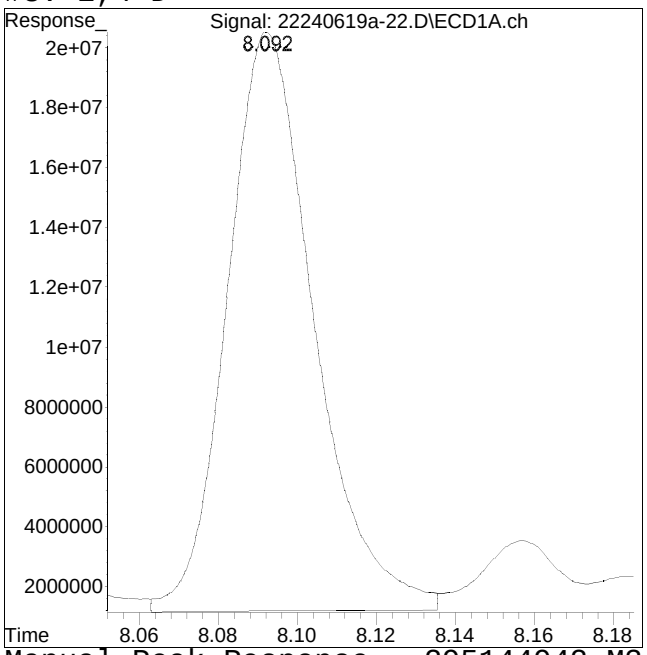
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #8: 2,4-D



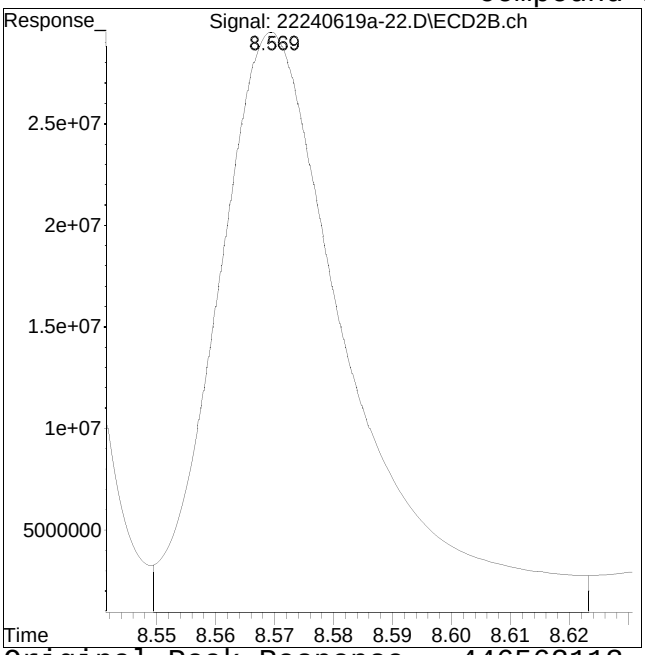


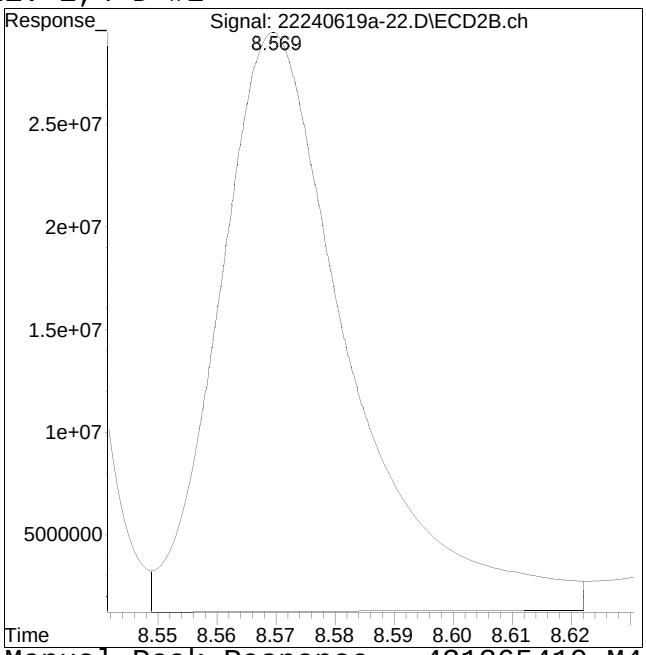
Original Peak Response = 57969743 Manual Peak Response = 295144942 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #21: 2,4-D #2



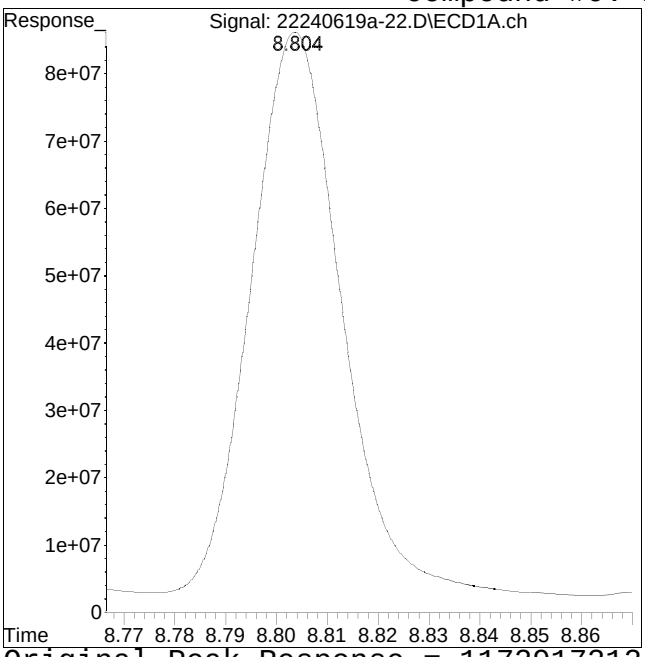


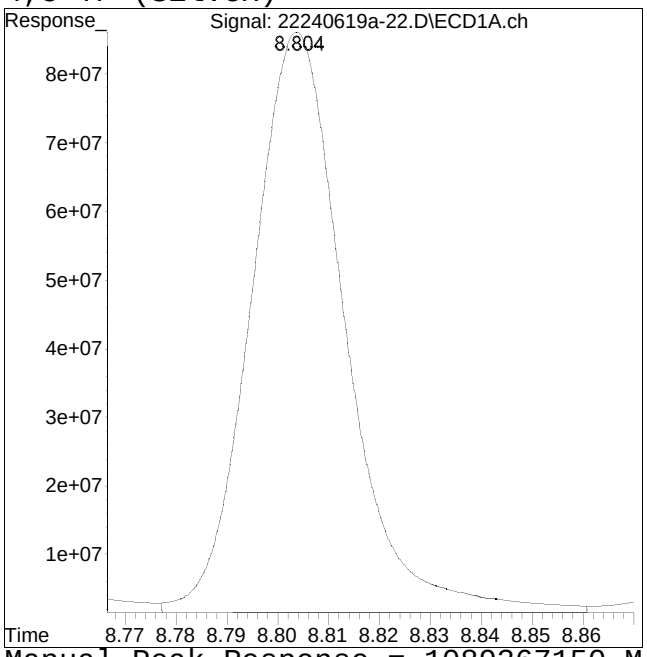
Original Peak Response = 446562113 Manual Peak Response = 431365410 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #9: 2,4,5-TP (Silvex)



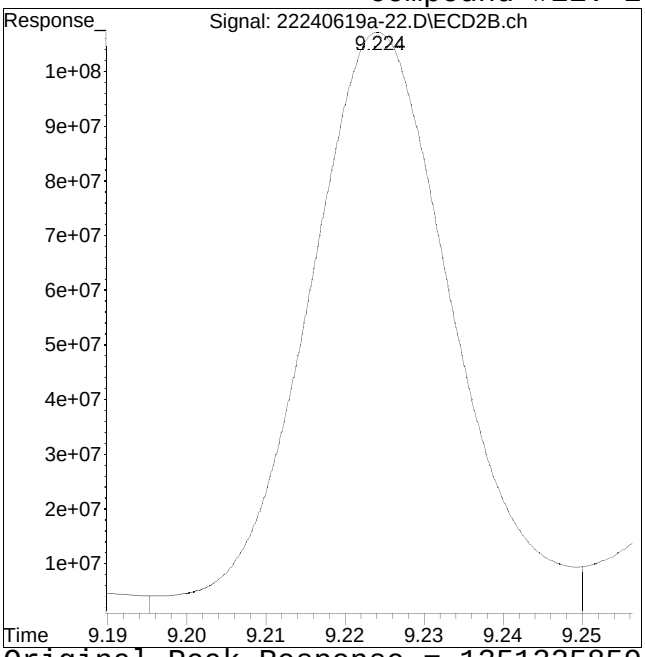


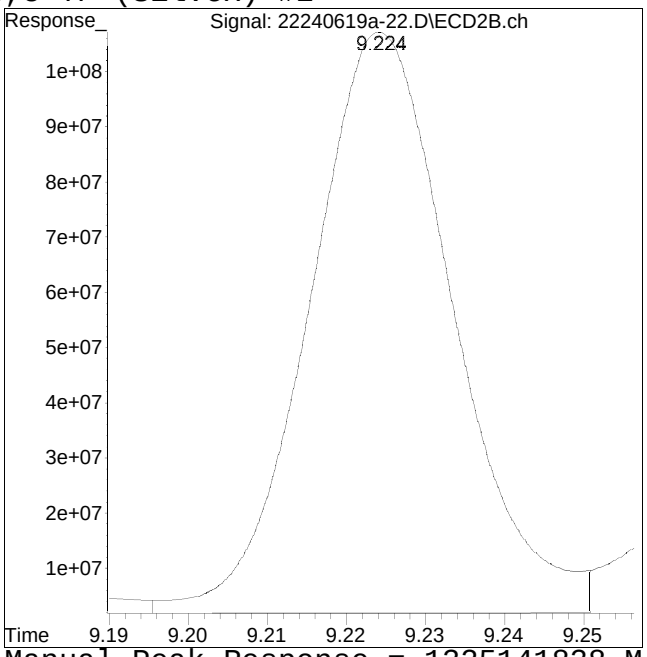
Original Peak Response = 1172917212 Manual Peak Response = 1089367150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #22: 2,4,5-TP (Silvex) #2



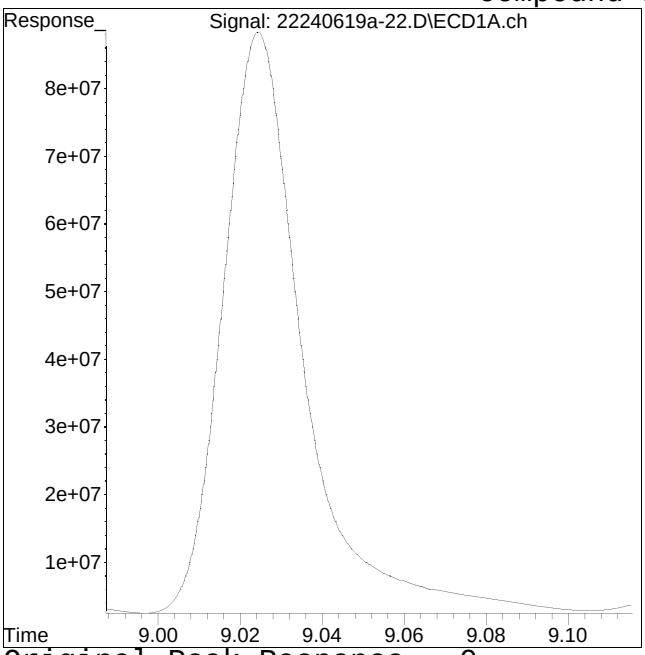


Original Peak Response = 1351325859 Manual Peak Response = 1325141838 M4
M4 = Poor automated baseline construction.

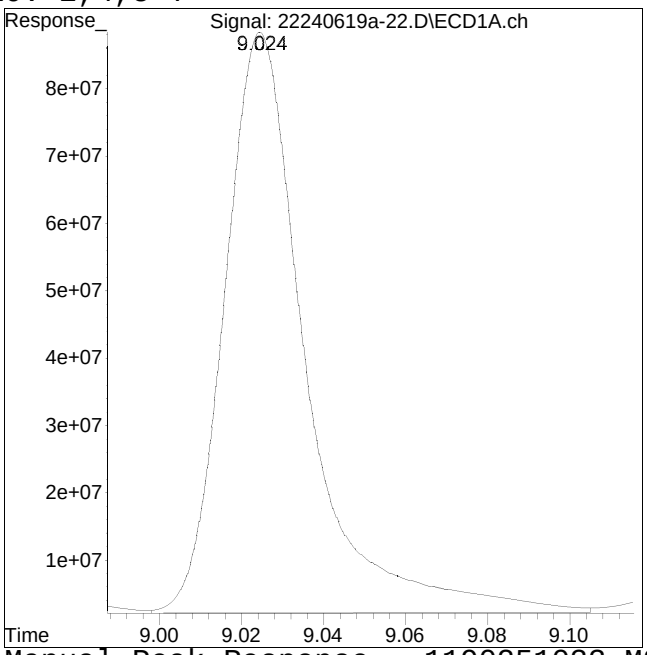
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #10: 2,4,5-T



Original Peak Response = 0



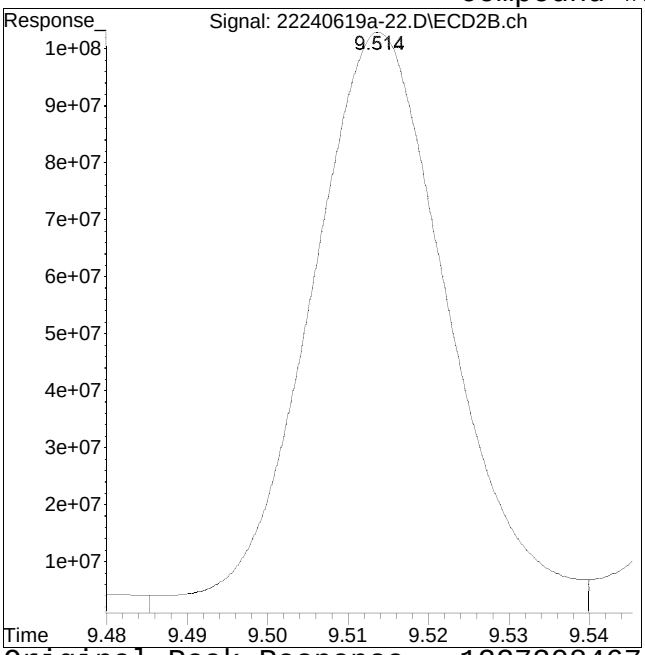
Manual Peak Response = 1190251033 M2

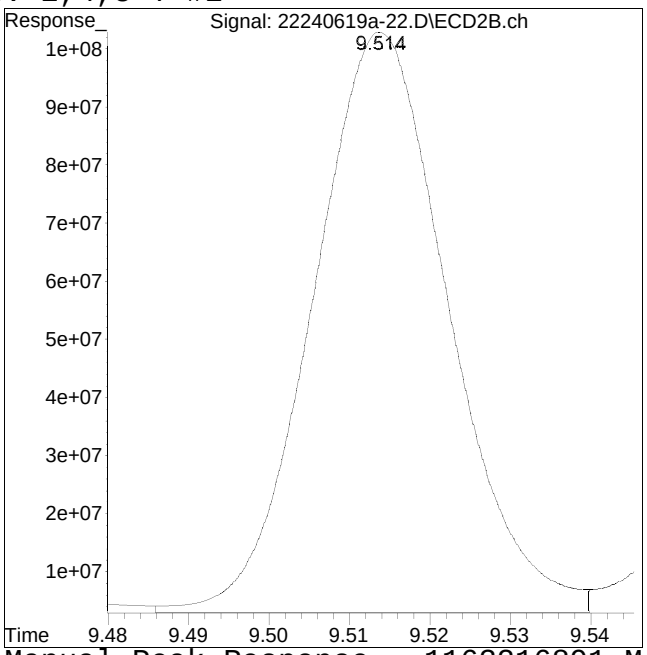
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #23: 2,4,5-T #2



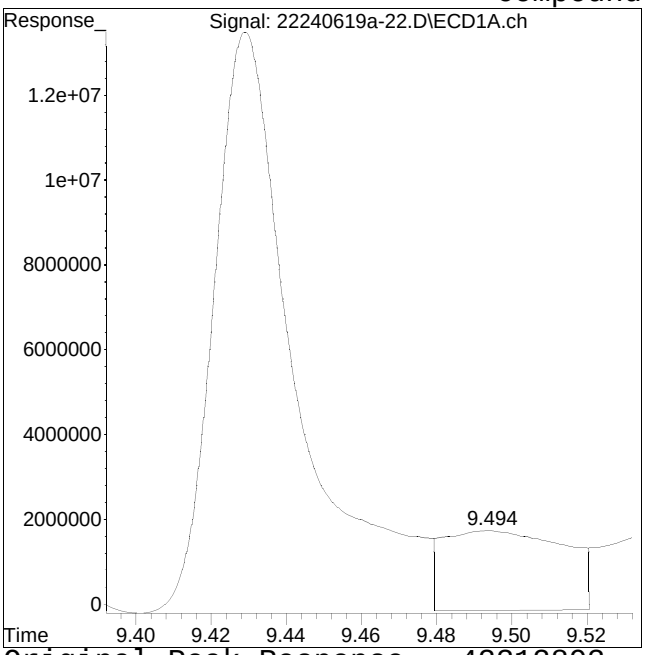


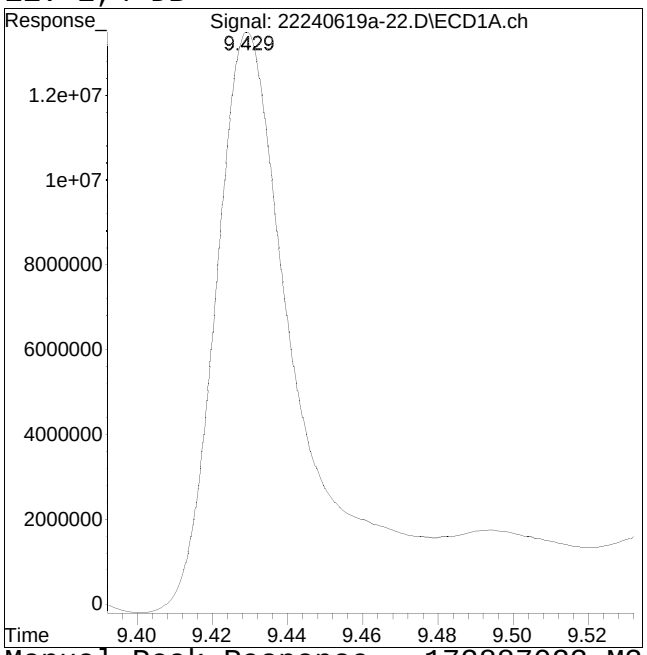
Original Peak Response = 1227308467 Manual Peak Response = 1163216891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #11: 2,4-DB



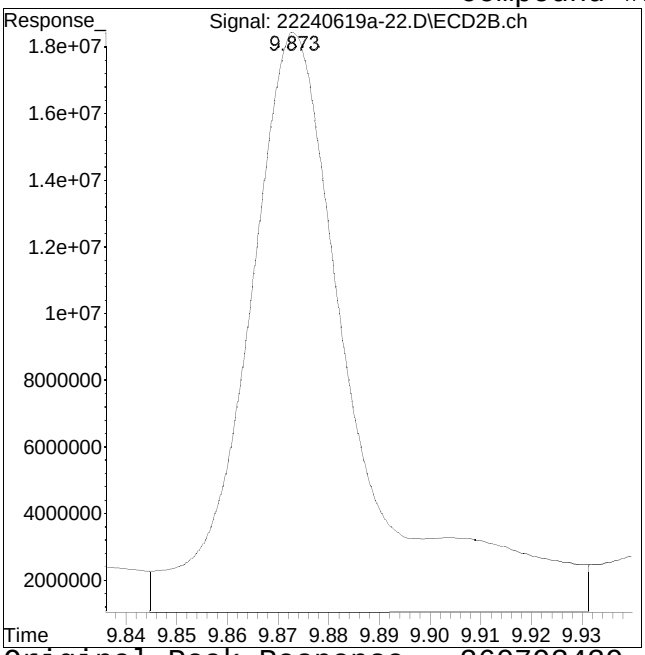


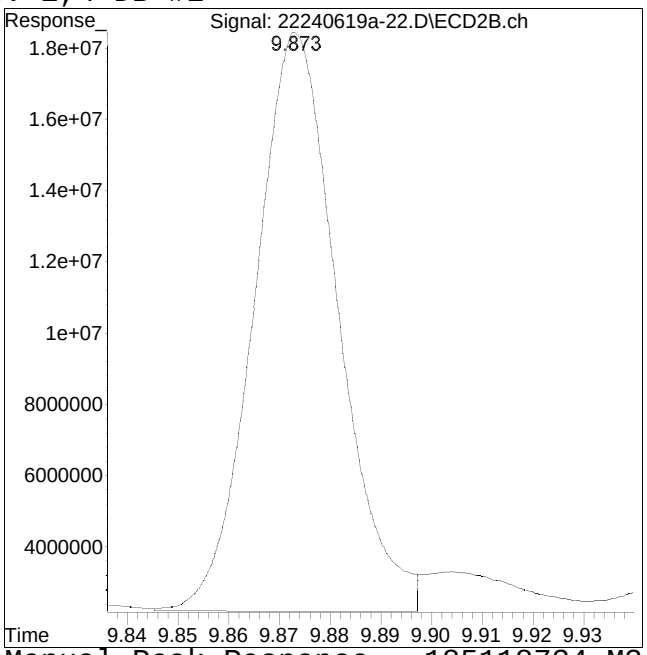
Original Peak Response = 42312893 Manual Peak Response = 172887023 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #24: 2,4-DB #2



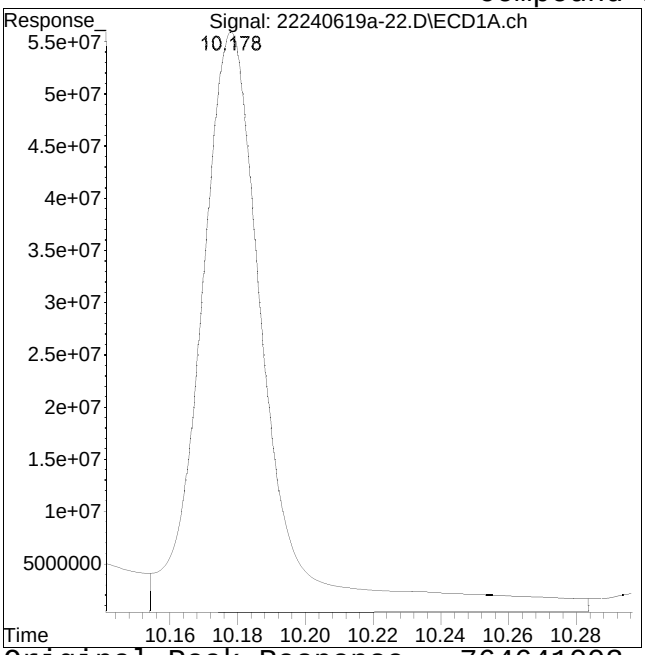


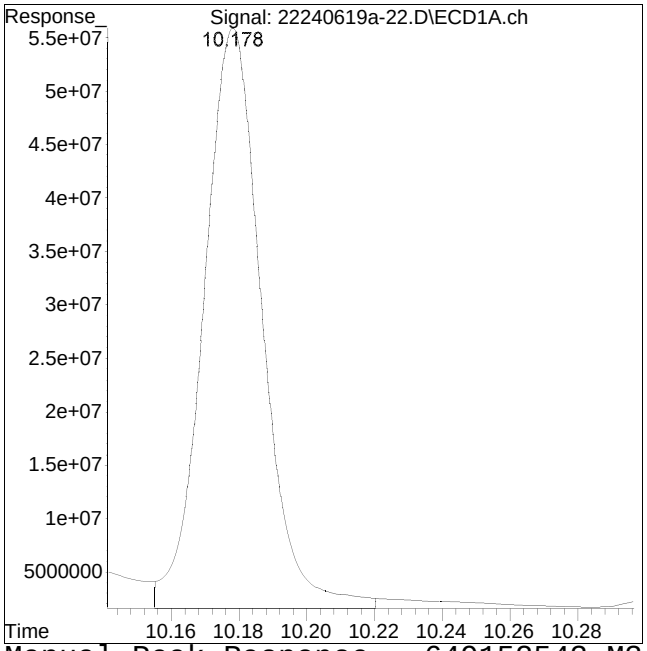
Original Peak Response = 260793439 Manual Peak Response = 185118734 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #12: Dinoseb



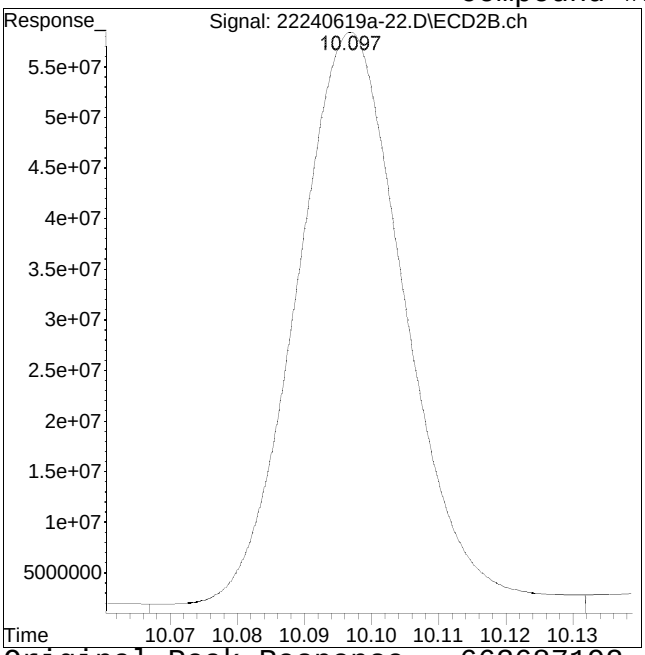


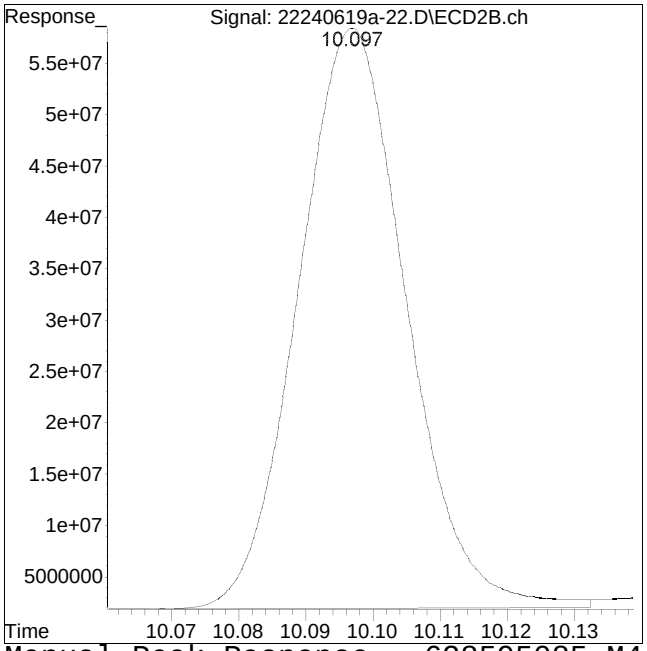
Original Peak Response = 764641003 Manual Peak Response = 649152543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-22.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:21 pm Instrument : Pest22
Sample : WG1935934-2,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #25: Dinoseb #2





Original Peak Response = 663687192 Manual Peak Response = 628595085 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.526	784.3E6	807.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	88.79%	
	Standard Area 1 : #2 = 891276115				Recovery =	90.56%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.987	7.456	311.5E6	346.5E6	0.483M4	0.530M3
	Spiked Amount	0.500	Range 30 - 150		Recovery =	96.60%	106.00%
	Target Compounds						
2) t	Dalapon	2.391	2.388	271.9E6	309.6E6	0.410M4	0.486M4
4) t	Dicamba	7.169	7.637	884.2E6	893.1E6	0.478M3	0.466M3
5) t	MCPP	7.371	7.749	130.5E6	103.8E6	79.820M4	43.680M4
6) t	MCPA	7.517	7.976	191.9E6	178.9E6	63.280M4	44.693M4
7) t	Dichloroprop	7.873	8.293	279.6E6	290.0E6	0.462M3	0.468M4
8) t	2,4-D	8.092f	8.569f	347.4E6	409.4E6	0.461M3	0.534
9) t	2,4,5-TP (Si	8.804f	9.225	1269.6E6	1288.1E6	0.466M4	0.466M4
10) t	2,4,5-T	9.027f	9.515f	1359.9E6	1352.2E6	0.508M2	0.504M4
11) t	2,4-DB	9.433f	9.875f	219.5E6	221.8E6	0.530M2	0.488M3
12) t	Dinoseb	10.178	10.098	808.9E6	732.6E6	0.523M2	0.462M3
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21040 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

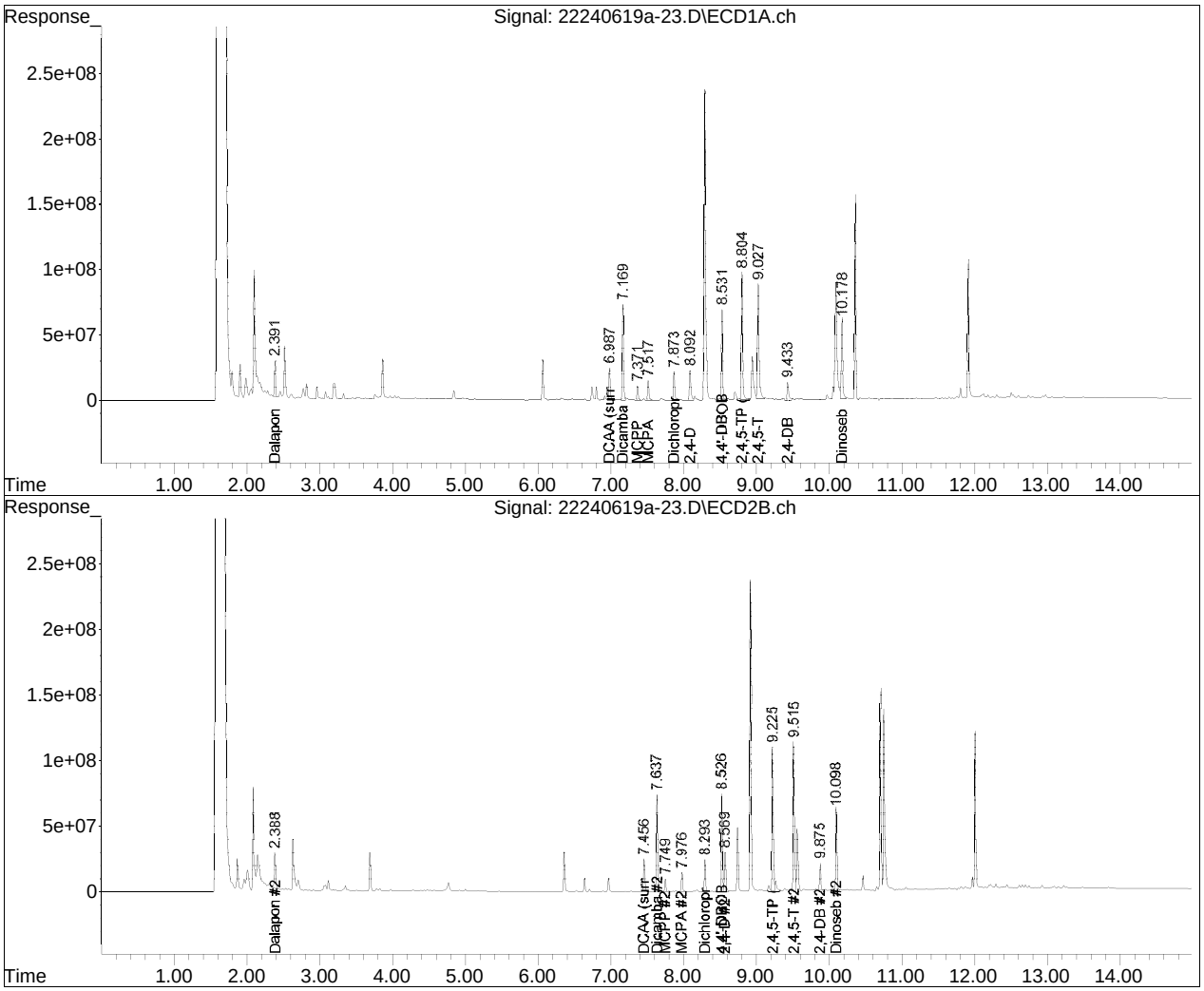
Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 02:40 pm
Operator : pest22:EJL
Sample : WG1935934-3,42,, 934 (Sig #1); WG1935965-3,42,, 934 (Sig #2)
Misc : wg1936304,WG1935934,ical21040 (Sig #1); wg1936304,WG1935965,ical21
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 16:17:43 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

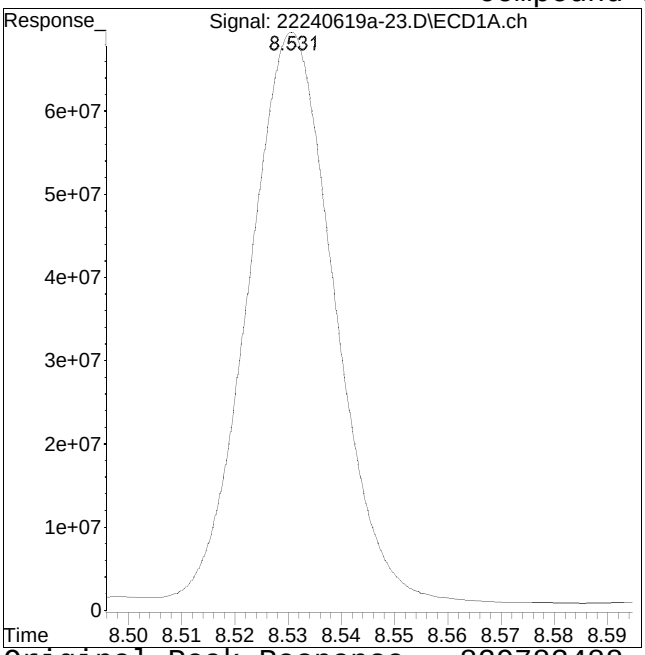
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

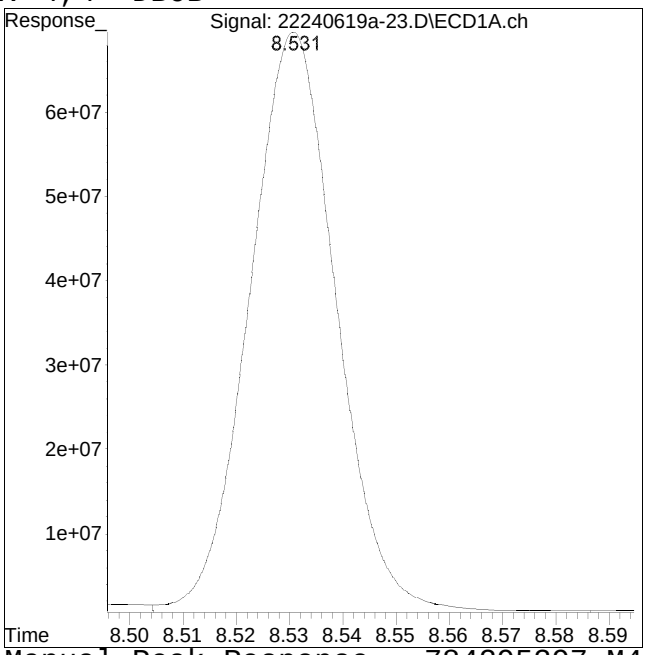


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #1: 4,4'-DBOB



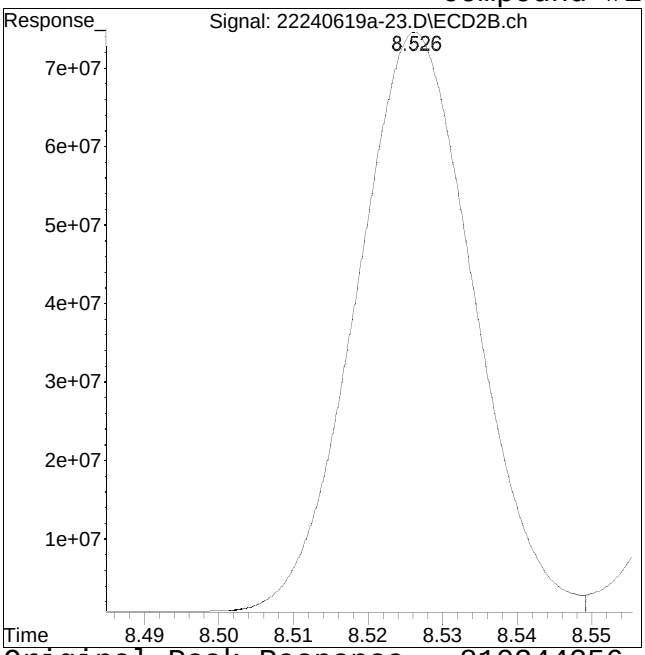


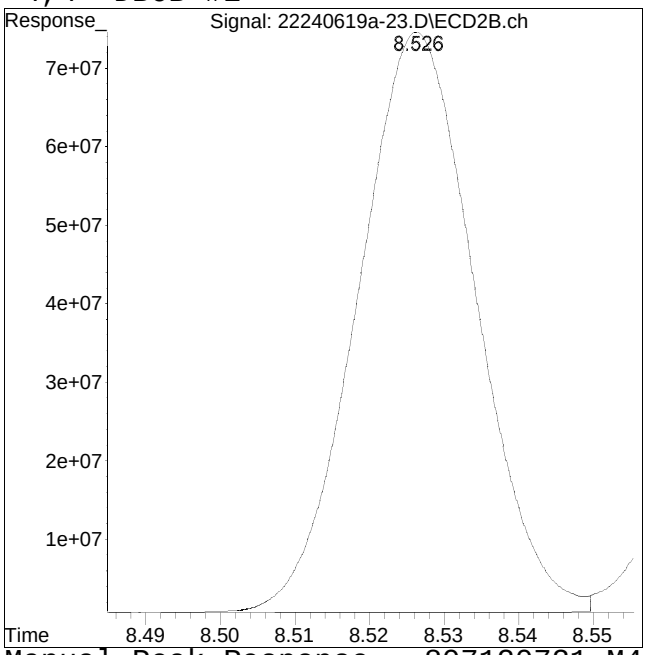
Original Peak Response = 829783488 Manual Peak Response = 784295397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #14: 4,4'-DBOB #2



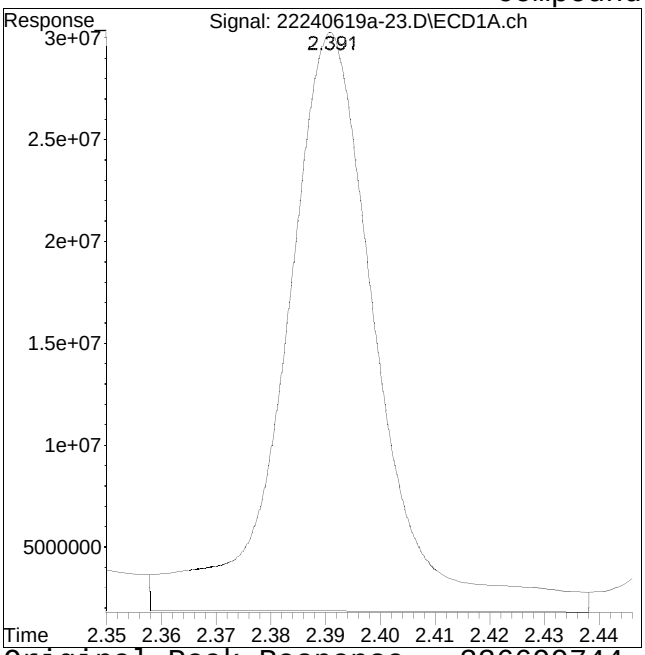


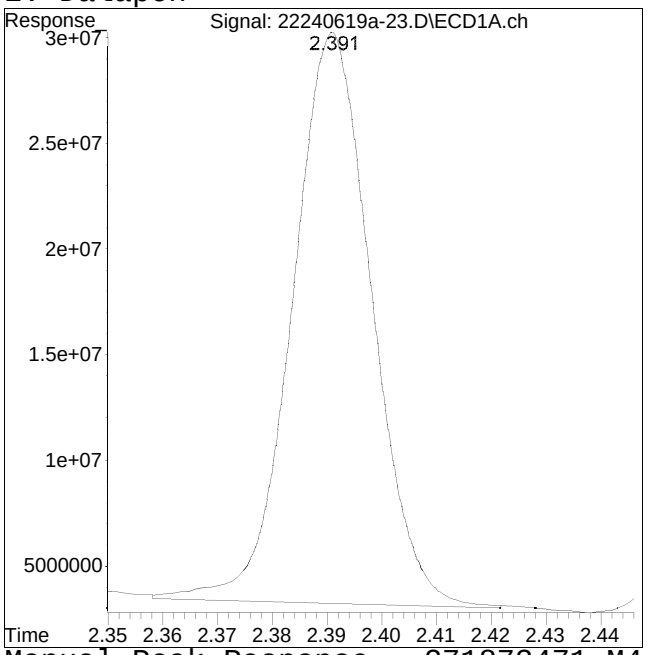
Original Peak Response = 810344256 Manual Peak Response = 807120721 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #2: Dalapon



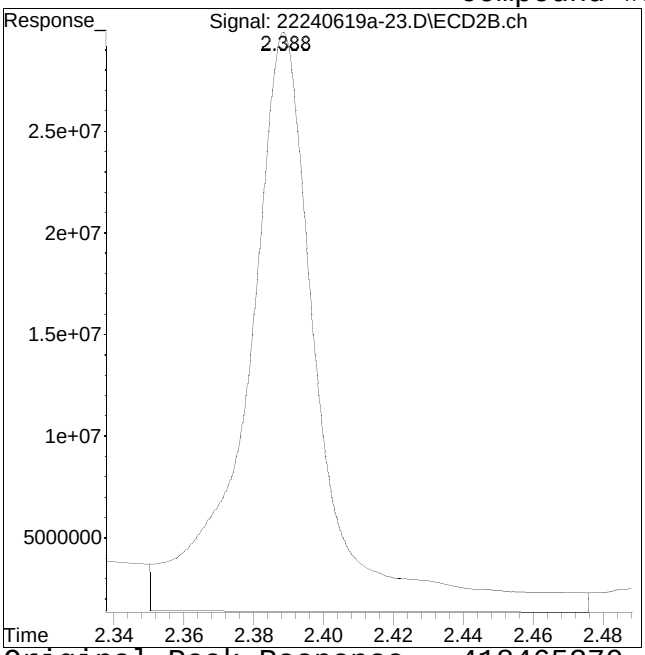


Original Peak Response = 336699744 Manual Peak Response = 271873471 M4
M4 = Poor automated baseline construction.

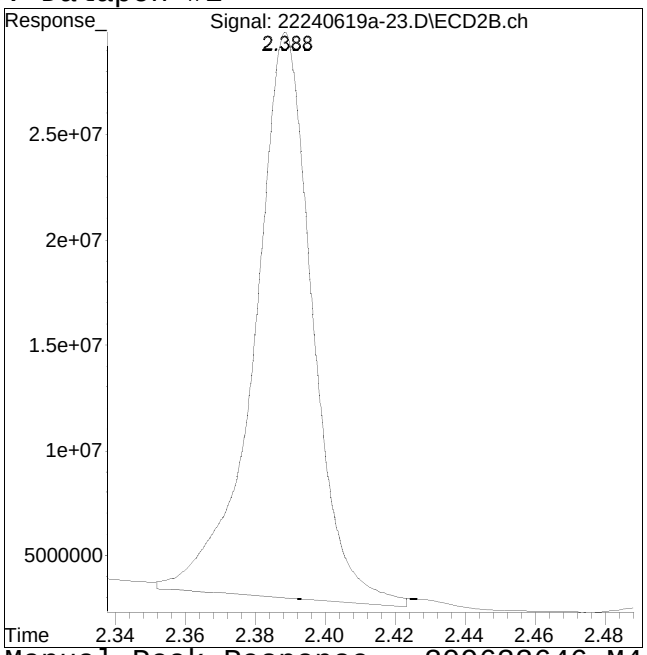
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #15: Dalapon #2



Original Peak Response = 418465370



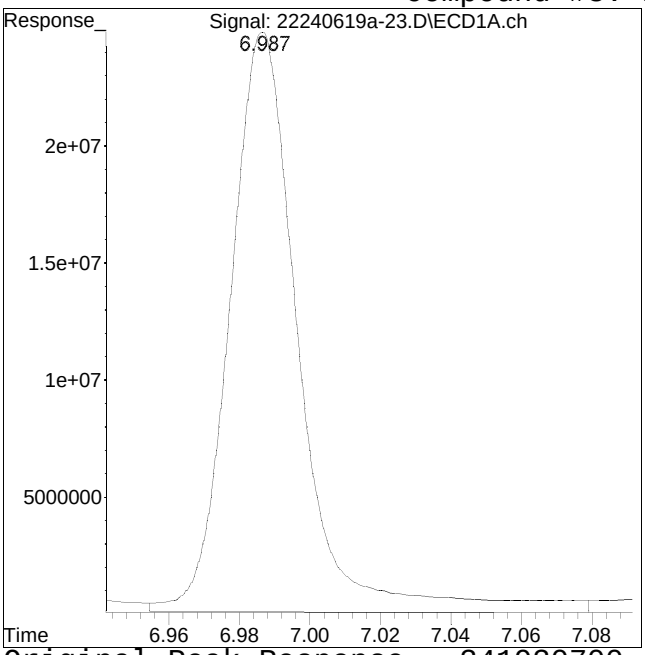
Manual Peak Response = 309633646 M4

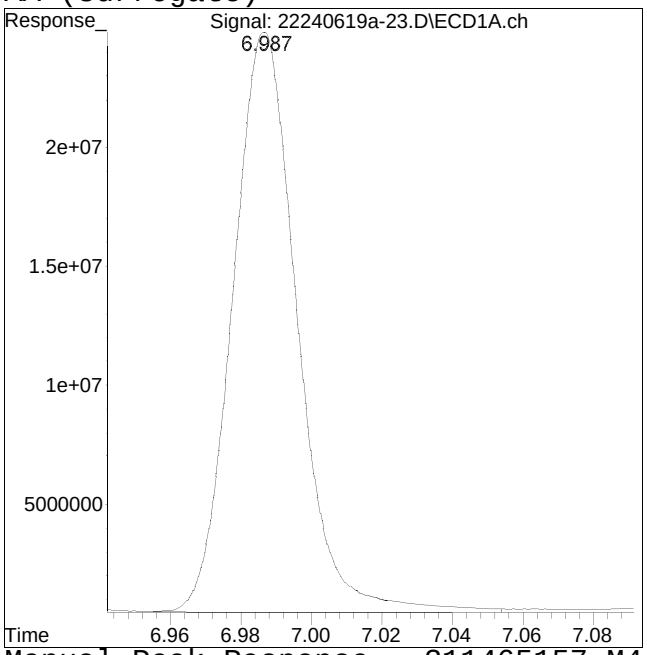
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #3: DCAA (surrogate)



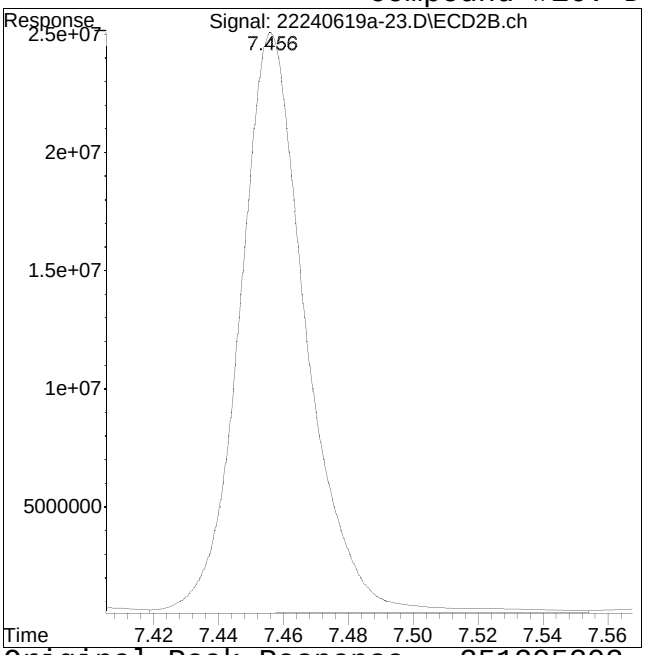


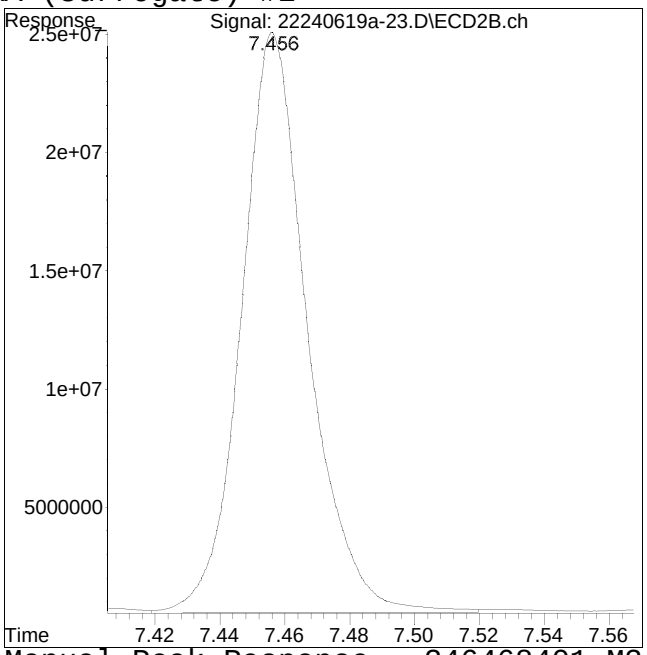
Original Peak Response = 341930700 Manual Peak Response = 311465157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #16: DCAA (surrogate) #2



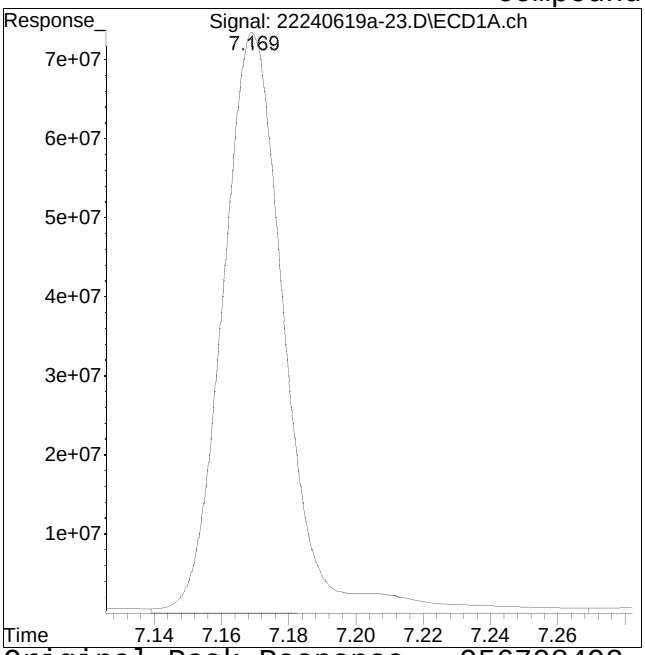


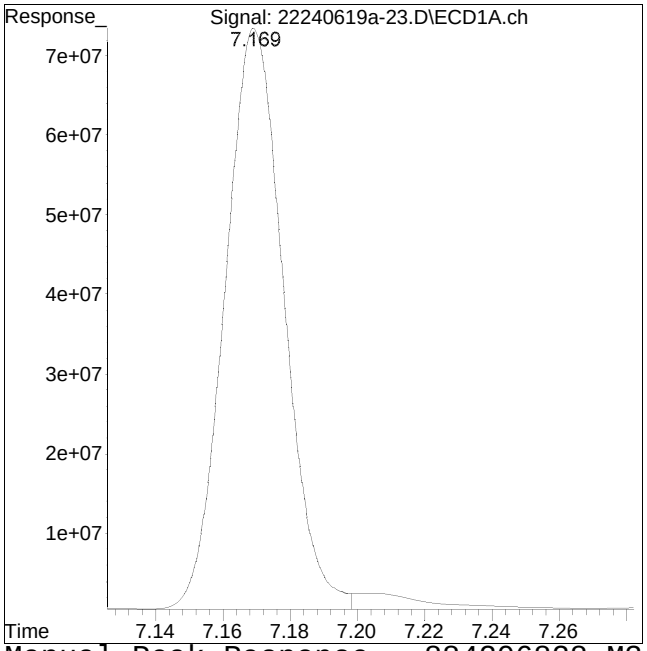
Original Peak Response = 351295303 Manual Peak Response = 346468401 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #4: Dicamba



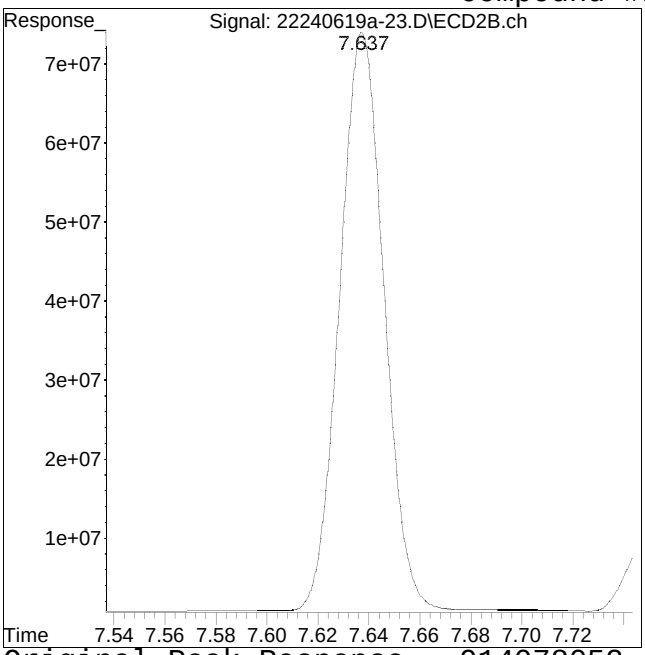


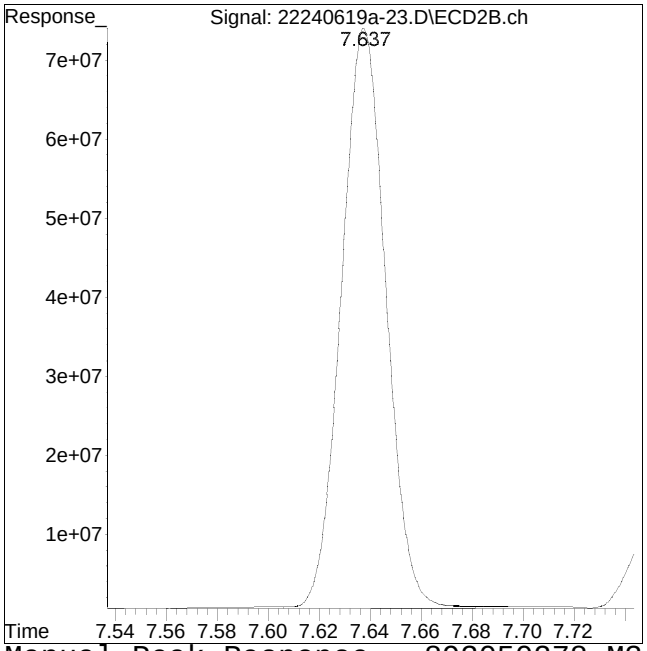
Original Peak Response = 956708492 Manual Peak Response = 884206828 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #17: Dicamba #2



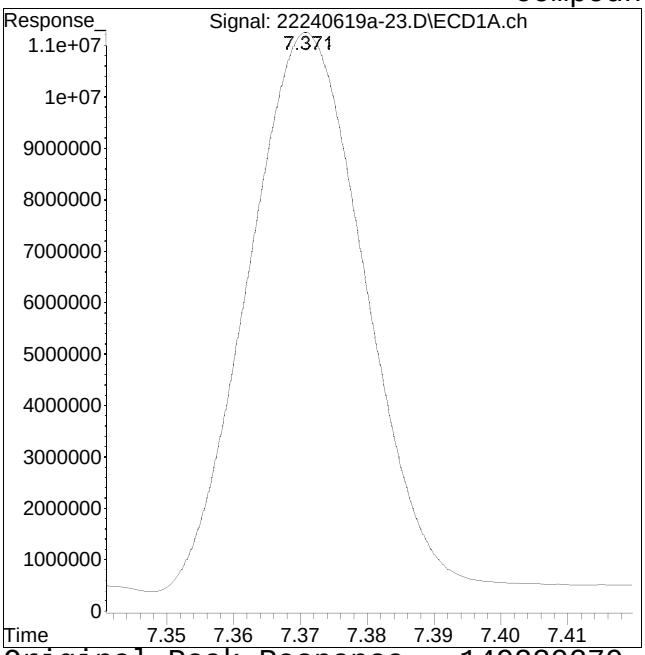


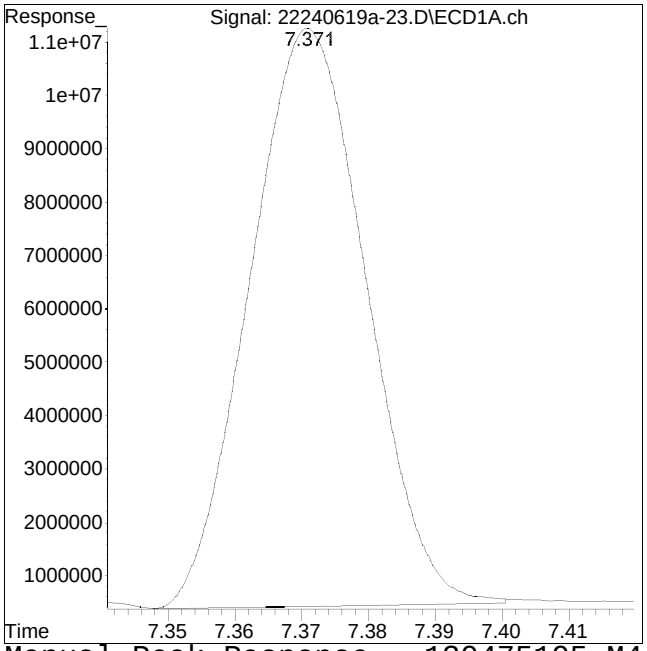
Original Peak Response = 914078052 Manual Peak Response = 893050278 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #5: MCPP



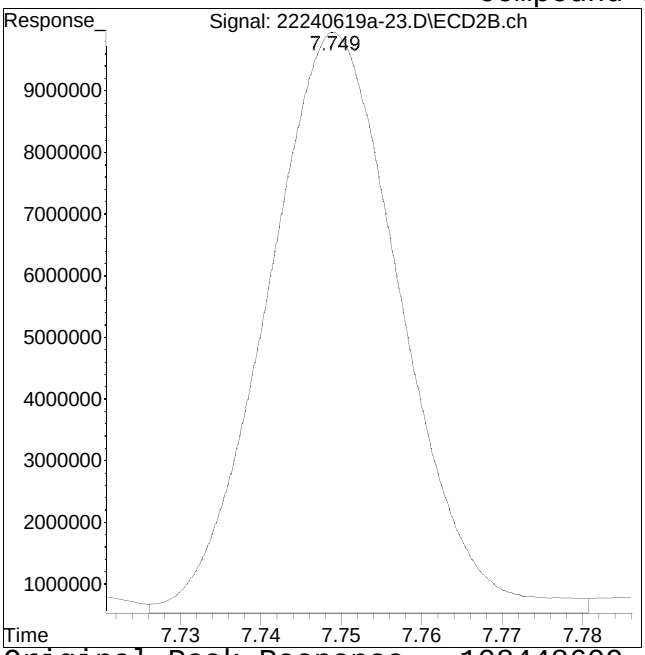


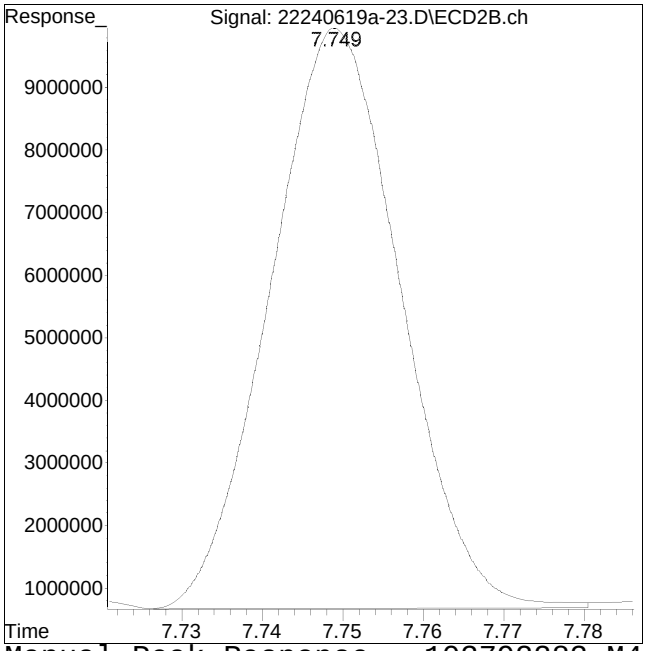
Original Peak Response = 149239279 Manual Peak Response = 130475195 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #18: MCPP #2



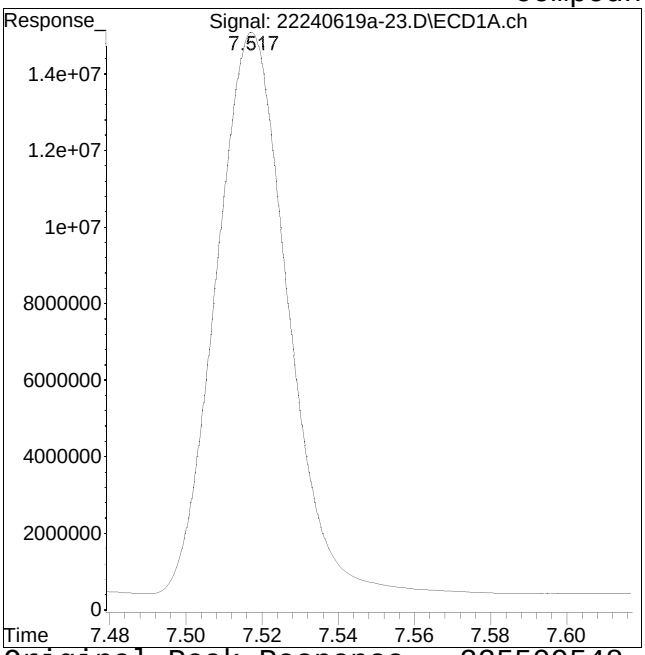


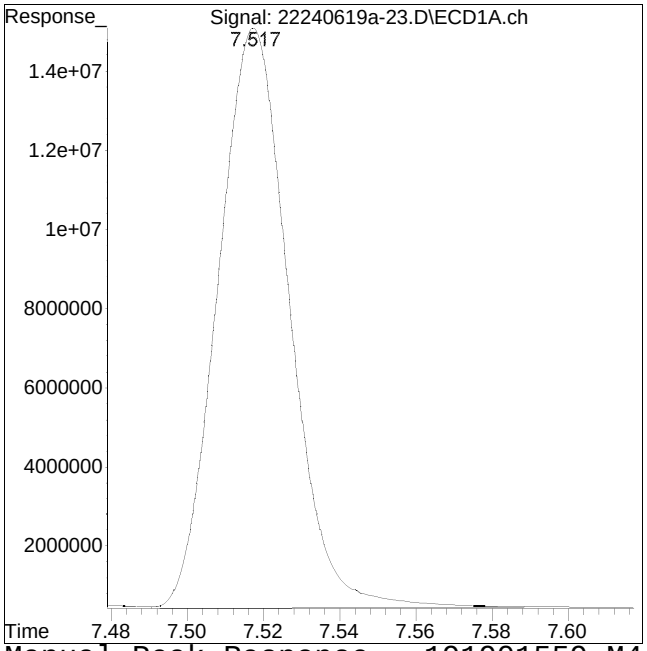
Original Peak Response = 108448609 Manual Peak Response = 103792283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #6: MCPA



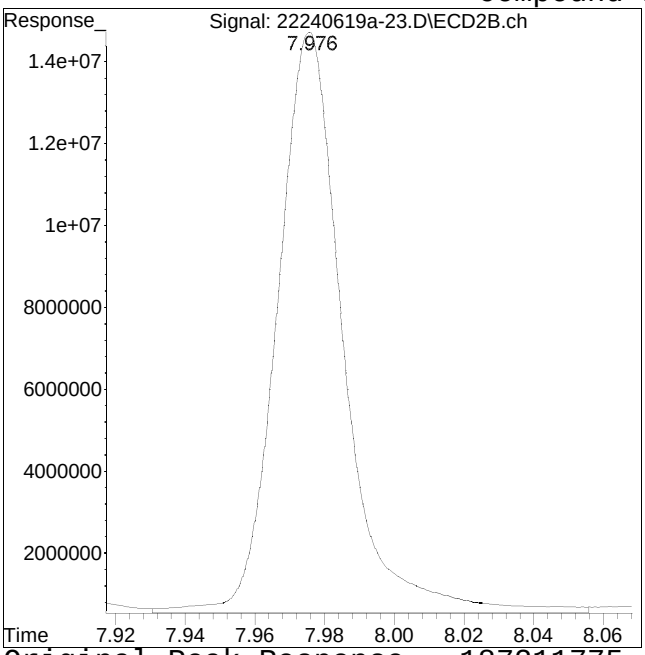


Original Peak Response = 225509548 Manual Peak Response = 191901559 M4
M4 = Poor automated baseline construction.

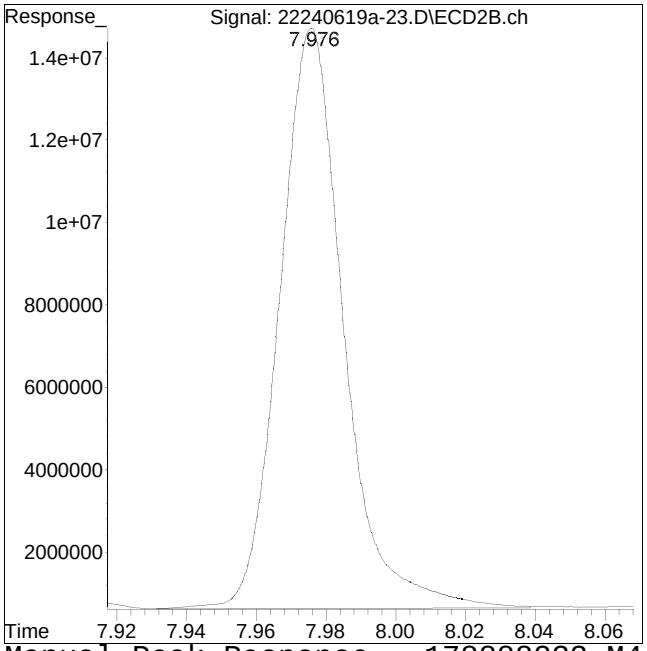
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #19: MCPA #2



Original Peak Response = 187211775



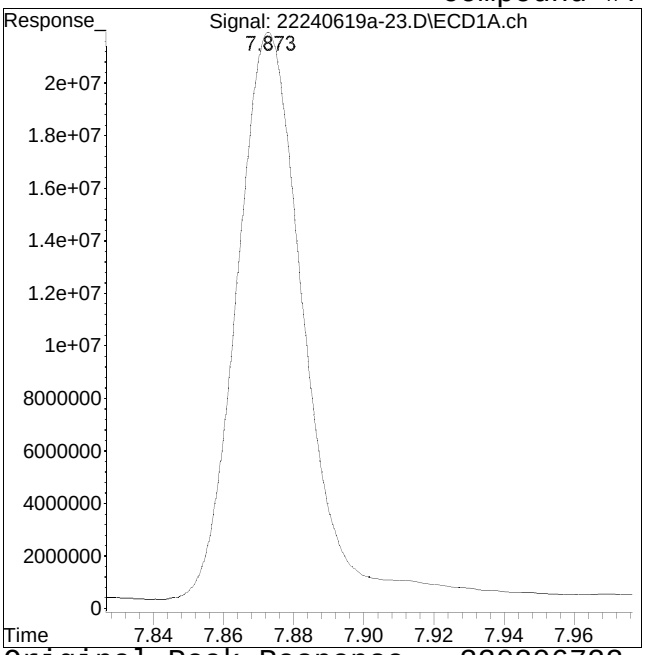
Manual Peak Response = 178888233 M4

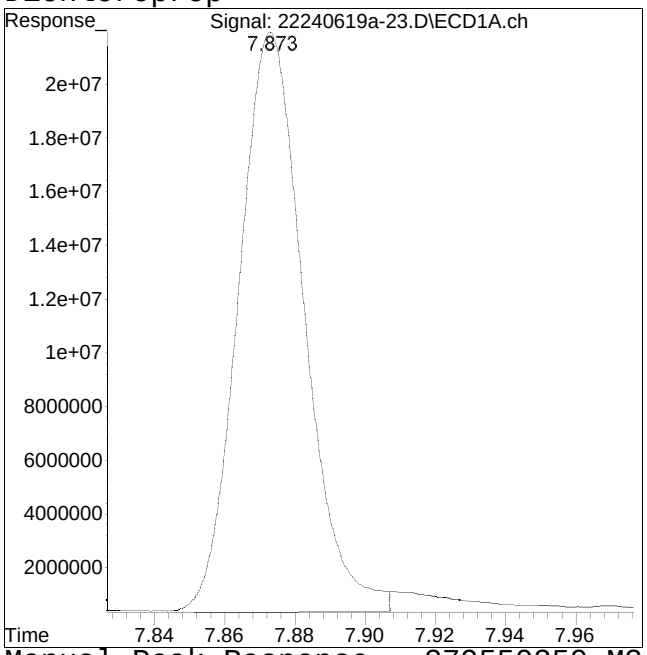
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #7: Dichloroprop



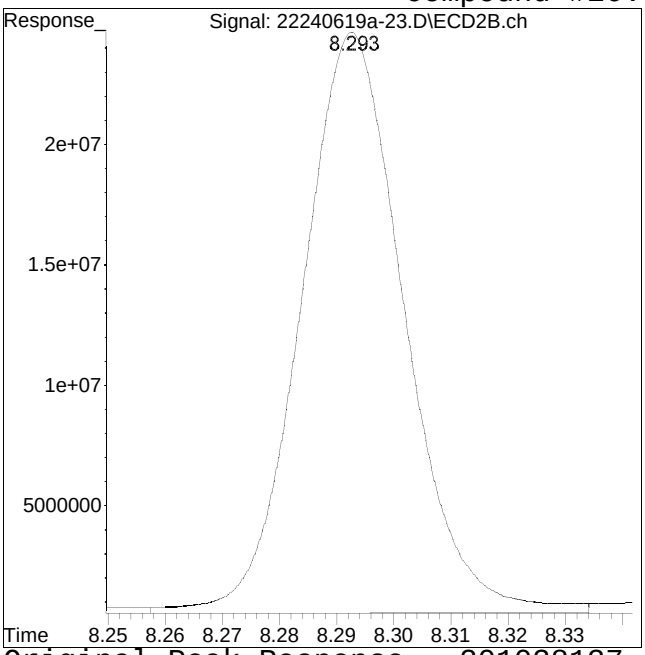


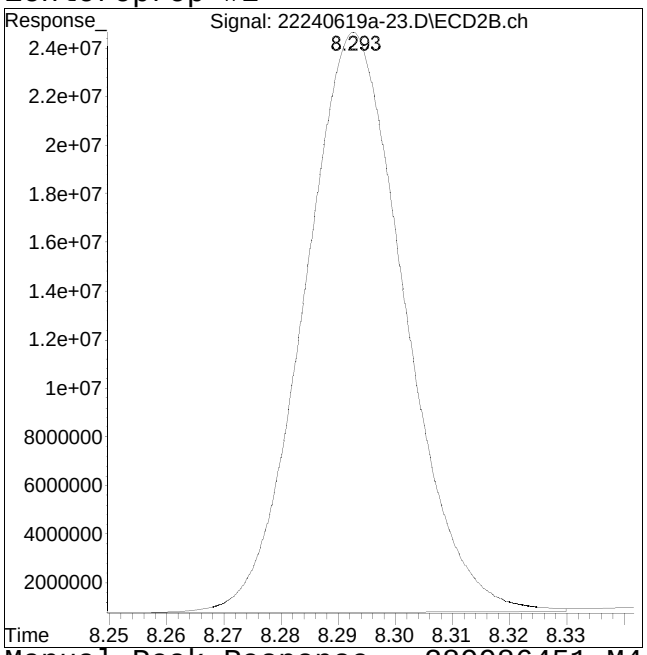
Original Peak Response = 330206722 Manual Peak Response = 279550350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #20: Dichloroprop #2



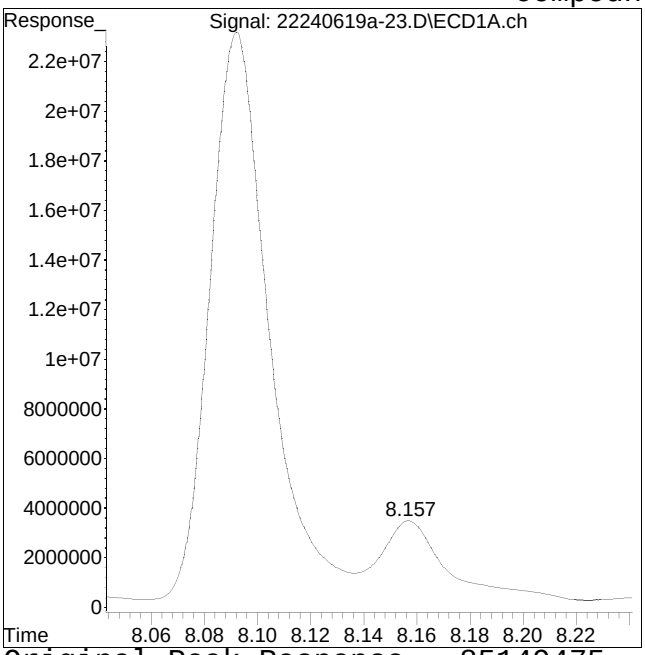


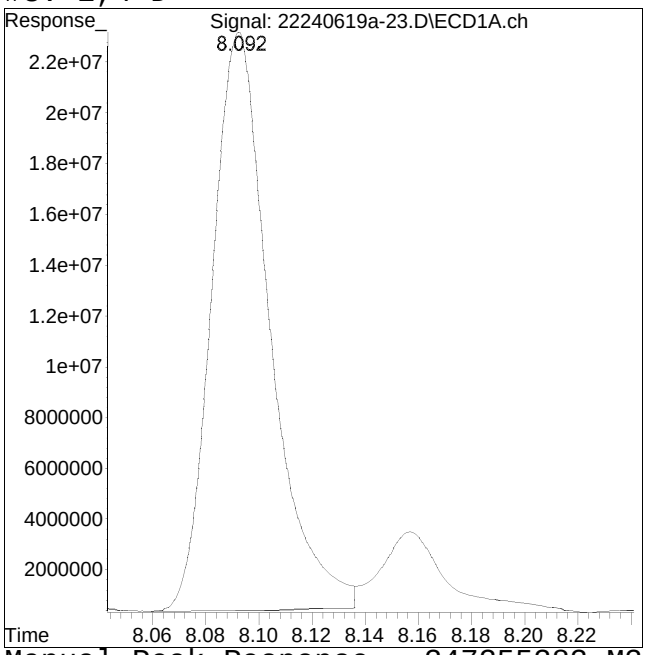
Original Peak Response = 301038137 Manual Peak Response = 289986451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #8: 2,4-D



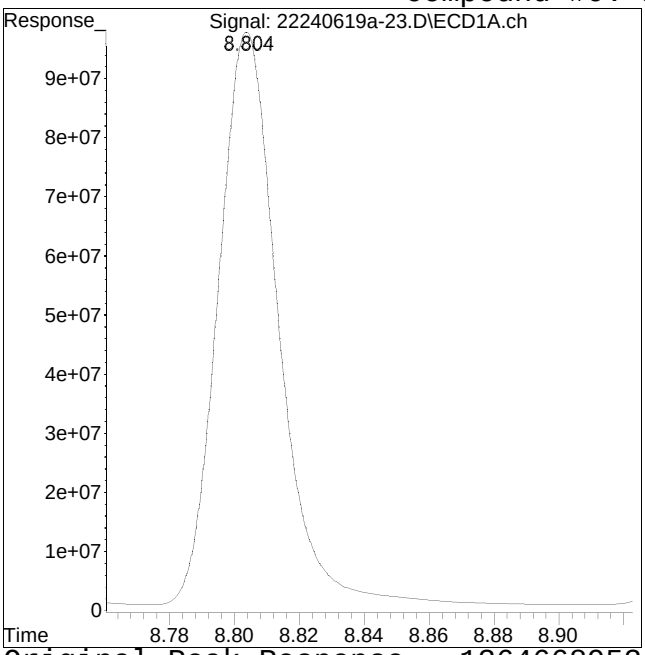


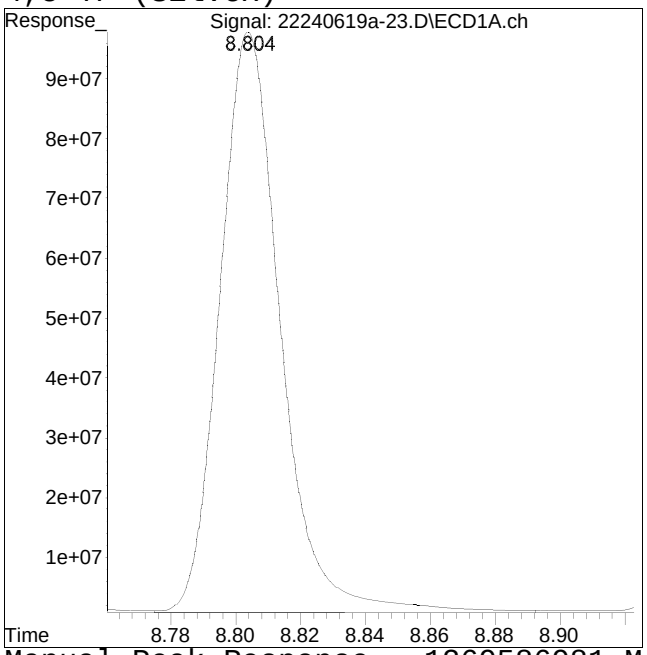
Original Peak Response = 85149475 Manual Peak Response = 347355383 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #9: 2,4,5-TP (Silvex)



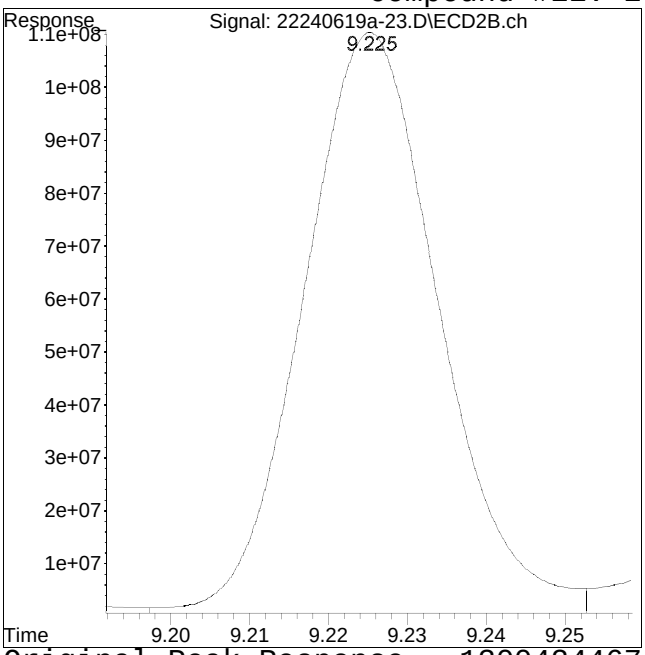


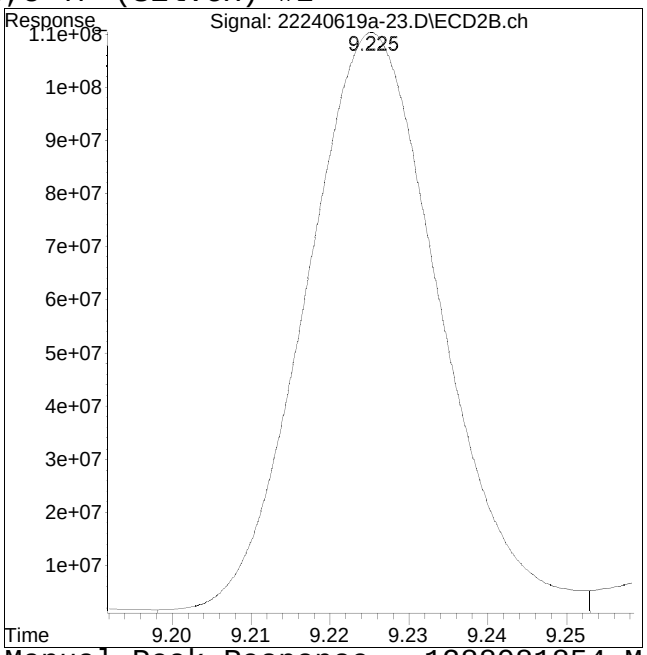
Original Peak Response = 1364668953 Manual Peak Response = 1269586981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #22: 2,4,5-TP (Silvex) #2



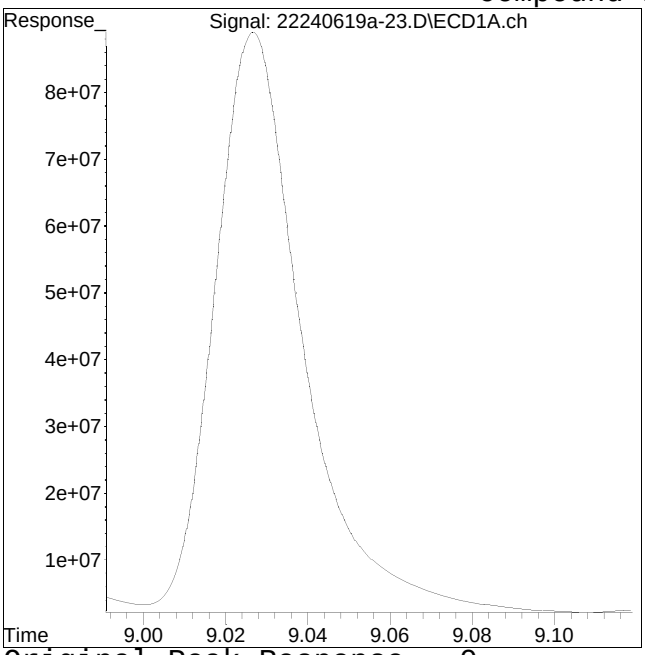


Original Peak Response = 1300424467 Manual Peak Response = 1288081854 M4
M4 = Poor automated baseline construction.

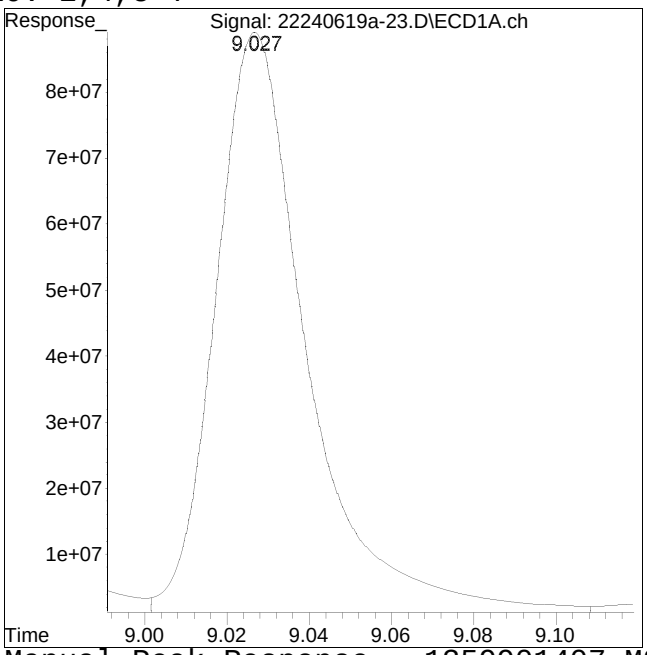
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #10: 2,4,5-T



Original Peak Response = 0



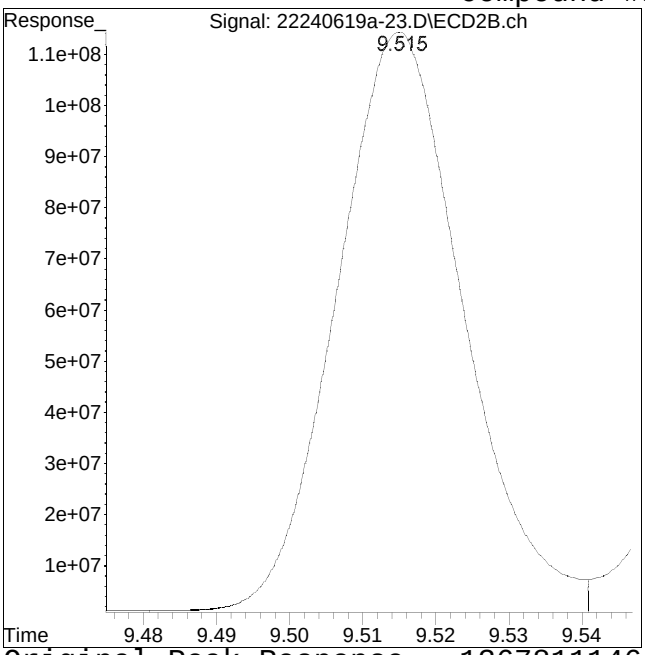
Manual Peak Response = 1359901407 M2

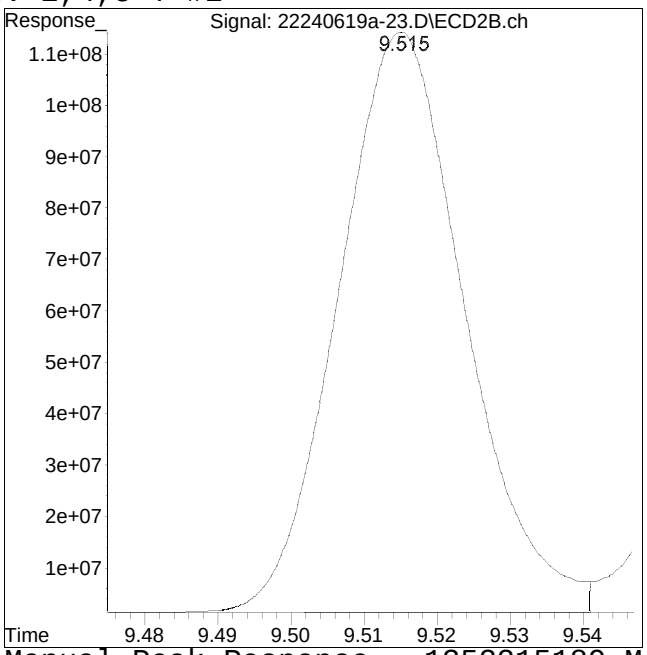
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #23: 2,4,5-T #2



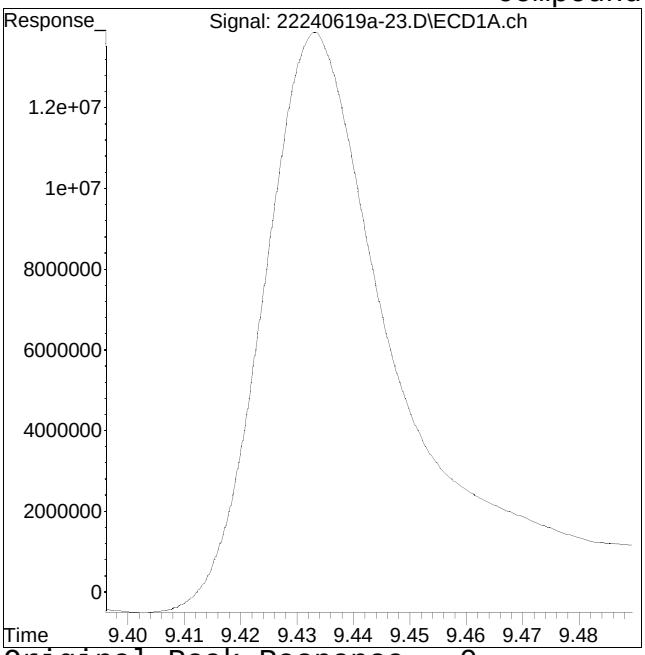


Original Peak Response = 1367811146 Manual Peak Response = 1352215189 M4
M4 = Poor automated baseline construction.

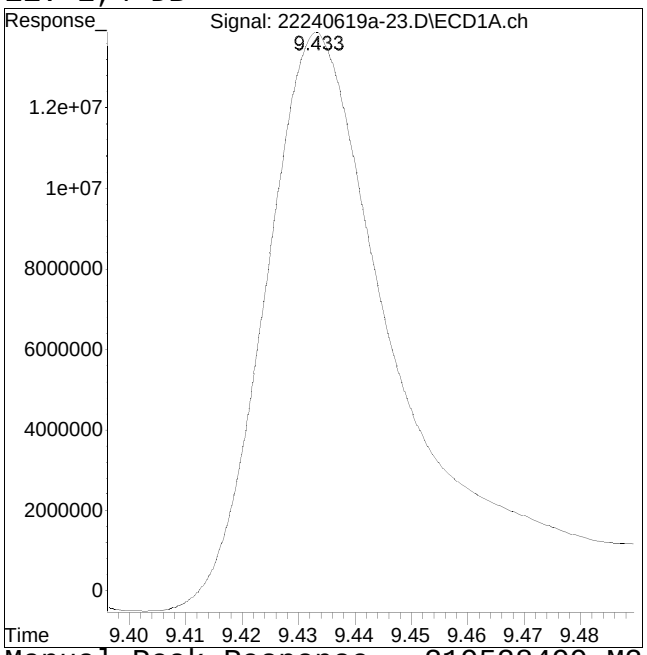
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #11: 2,4-DB



Original Peak Response = 0



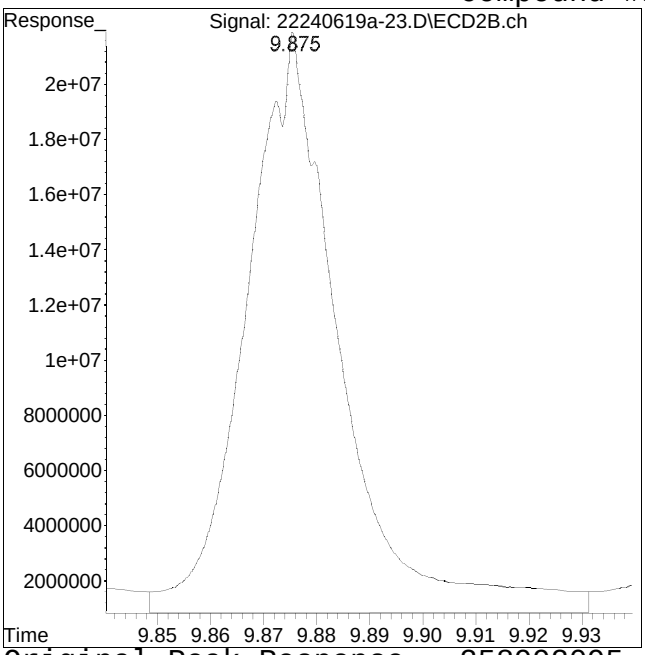
Manual Peak Response = 219528499 M2

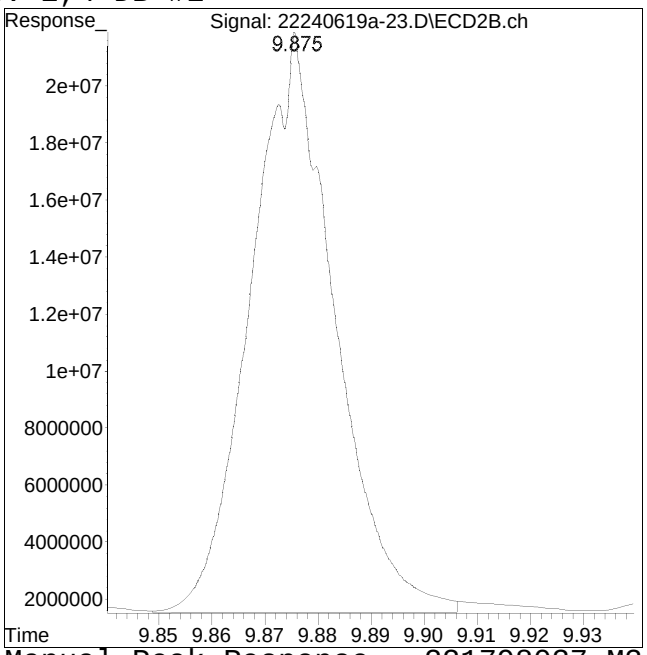
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #24: 2,4-DB #2



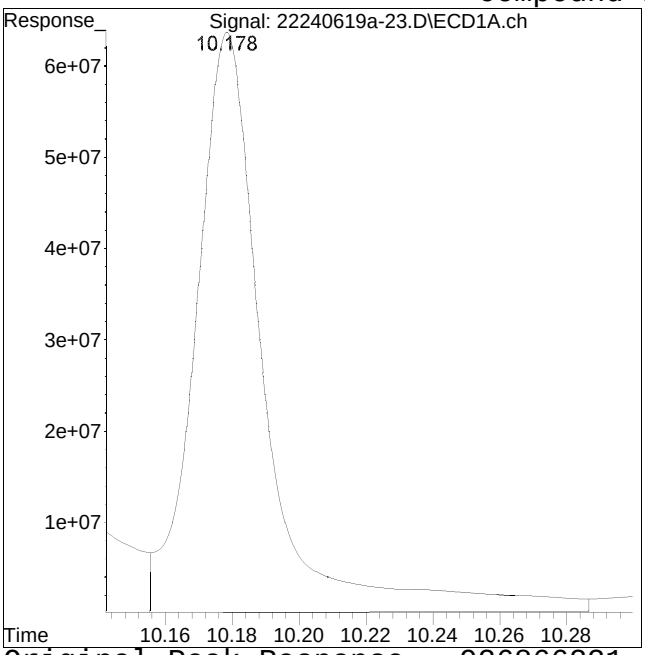


Original Peak Response = 258992095 Manual Peak Response = 221798037 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

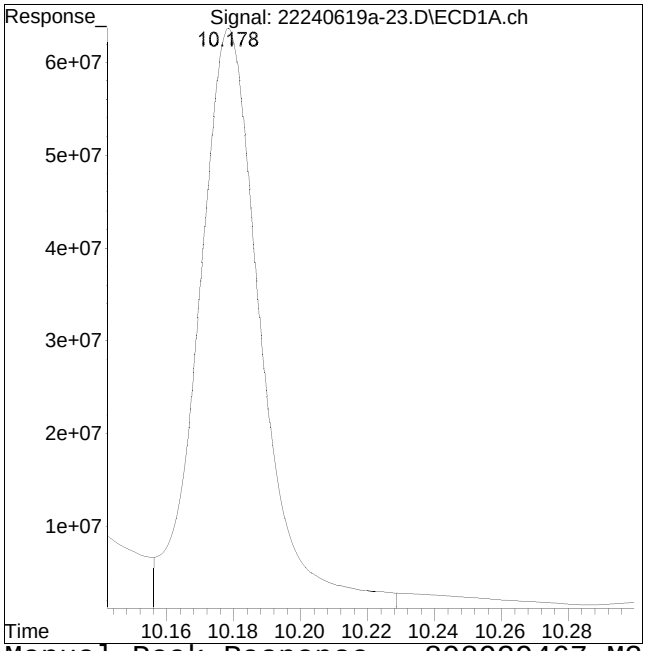
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #12: Dinoseb



Original Peak Response = 926866221



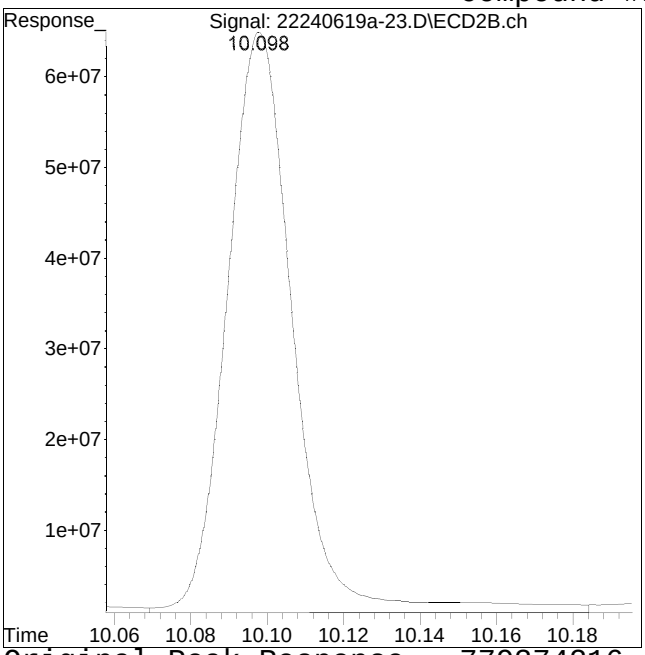
Manual Peak Response = 808939467 M2

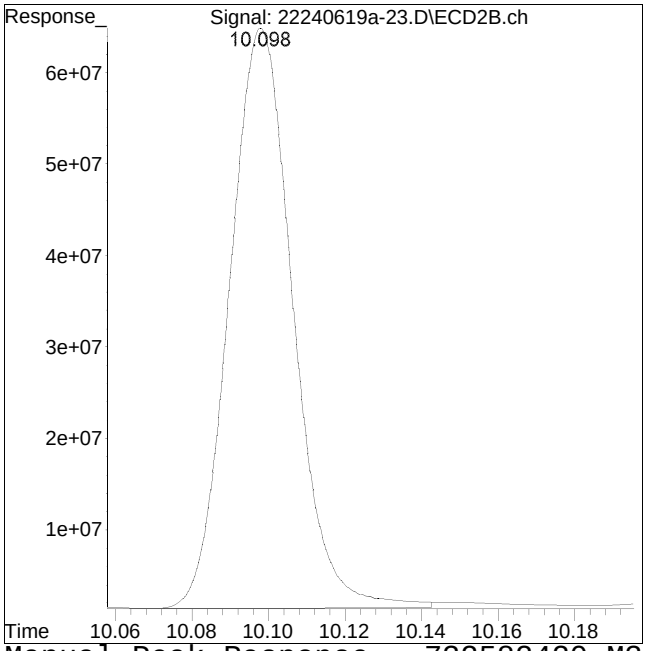
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-23.D Operator : pest22:EJL
Date Inj'd : 6/19/2024 2:40 pm Instrument : Pest22
Sample : WG1935934-3,42,, 934 Quant Date : 6/19/2024 4:17 pm

Compound #25: Dinoseb #2





Original Peak Response = 779374216 Manual Peak Response = 732582420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:08 pm
Operator : pest22:ejl
Sample : WG1935934-4,42,, ms
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:57 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.531	8.526	856.5E6	935.9E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	96.96%	
	Standard Area 1 : #2 = 891276115				Recovery =	105.01%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.457	236.0E6	267.6E6	0.335M3	0.353
	Spiked Amount	0.500	Range 30 - 150		Recovery =	67.00%	70.60%
	Target Compounds						
2) t	Dalapon	2.391	2.389	227.8E6	255.9E6	0.315M3	0.346M4
4) t	Dicamba	7.169	7.638	731.2E6	762.6E6	0.362M3	0.343M3
5) t	MCPP	7.371	7.750	106.8E6	90958895	59.839M4	33.011
6) t	MCPA	7.518	7.976	189.0E6	181.4E6	57.065M3	39.091
7) t	Dichloroprop	7.873	8.293	225.5E6	244.8E6	0.341M3	0.340M4
8) t	2,4-D	8.091f	8.569f	281.2E6	397.2E6	0.342M3	0.447
9) t	2,4,5-TP (Si	8.803f	9.224	1085.2E6	1425.8E6	0.365M4	0.445M4
10) t	2,4,5-T	9.024f	9.514f	1146.8E6	1131.1E6	0.392M2	0.364M4
11) t	2,4-DB	9.429f	9.873f	173.0E6	148.9E6	0.382M3	0.283M3
12) t	Dinoseb	10.178	10.097	560.4E6	621.9E6	0.332M3	0.338M3
	SemiQuant Compounds - Not Calibrated on this Instrument						

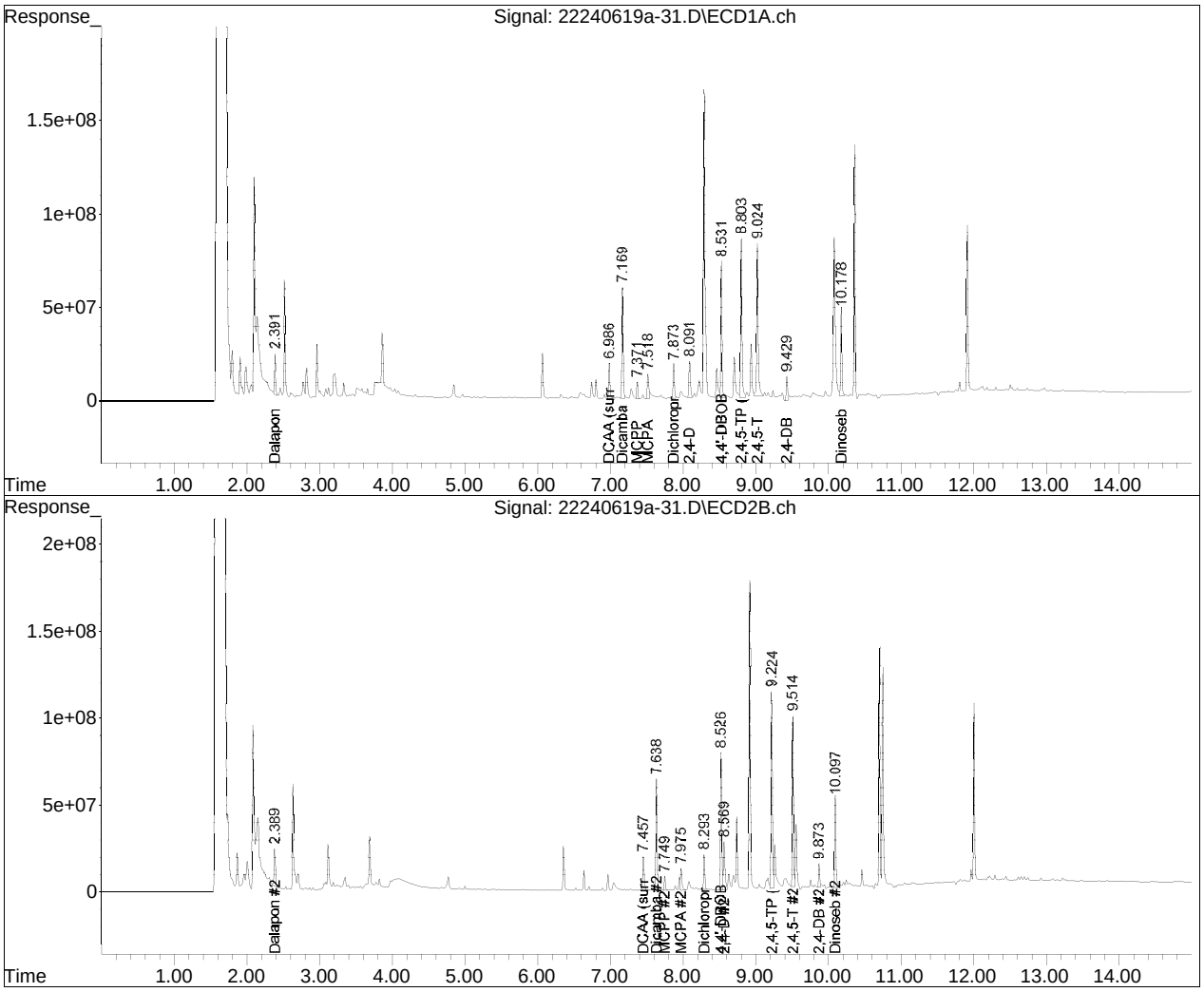
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:08 pm
Operator : pest22:ejl
Sample : WG1935934-4,42,, ms
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:57 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

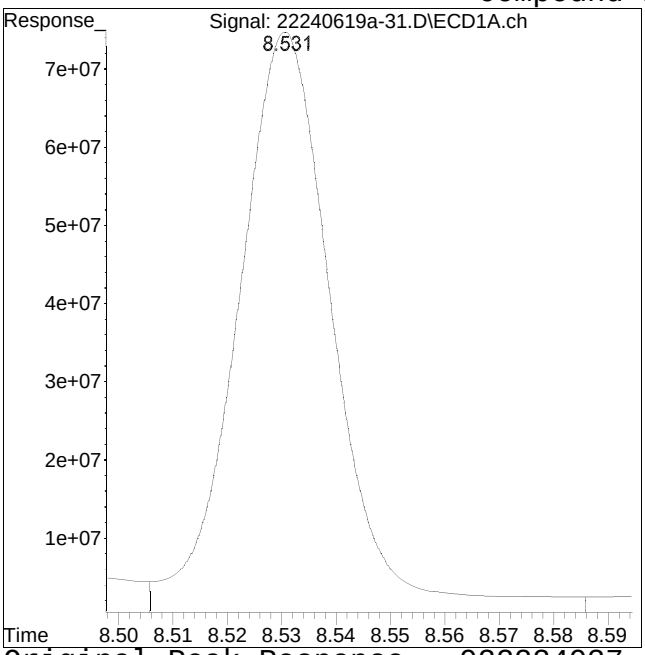
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

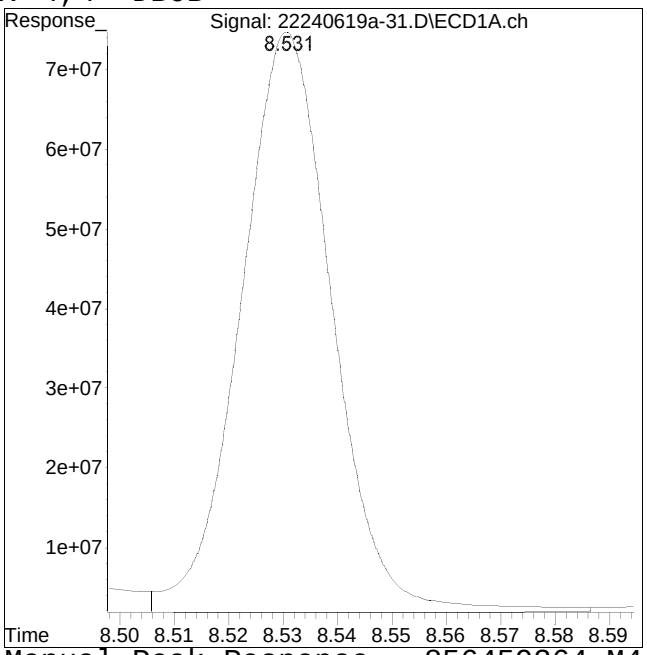


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #1: 4,4'-DBOB



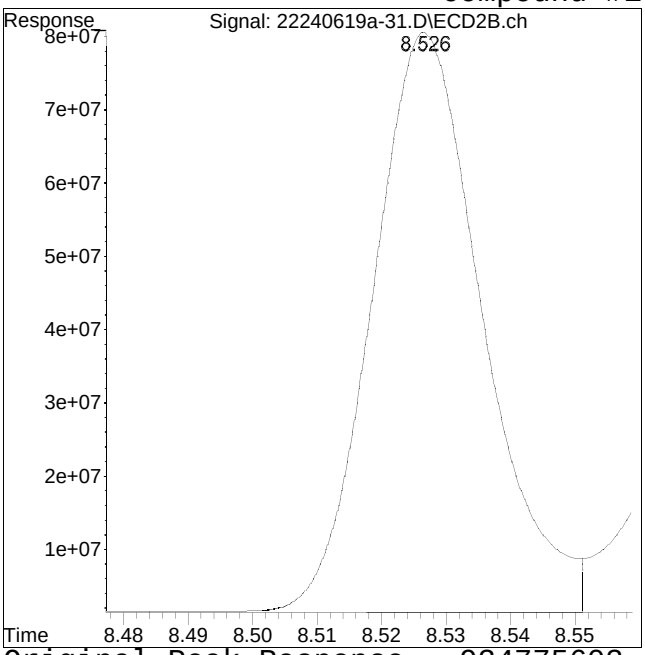


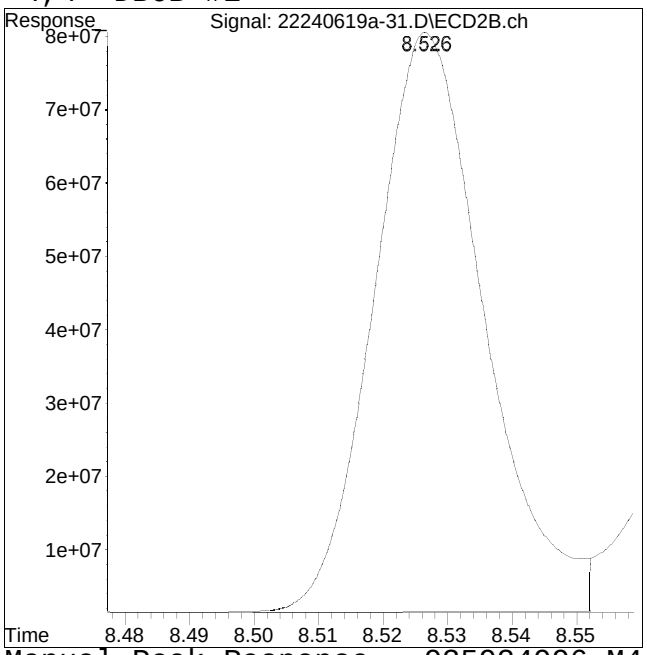
Original Peak Response = 922224937 Manual Peak Response = 856459364 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #14: 4,4'-DBOB #2



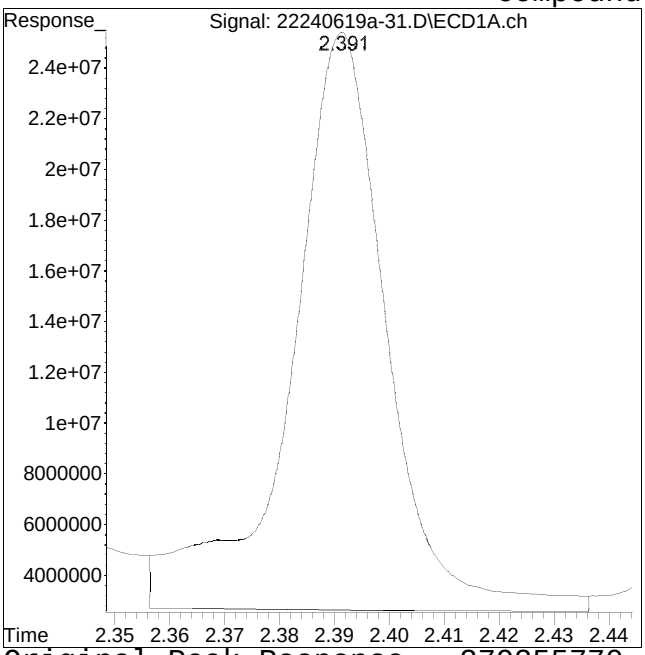


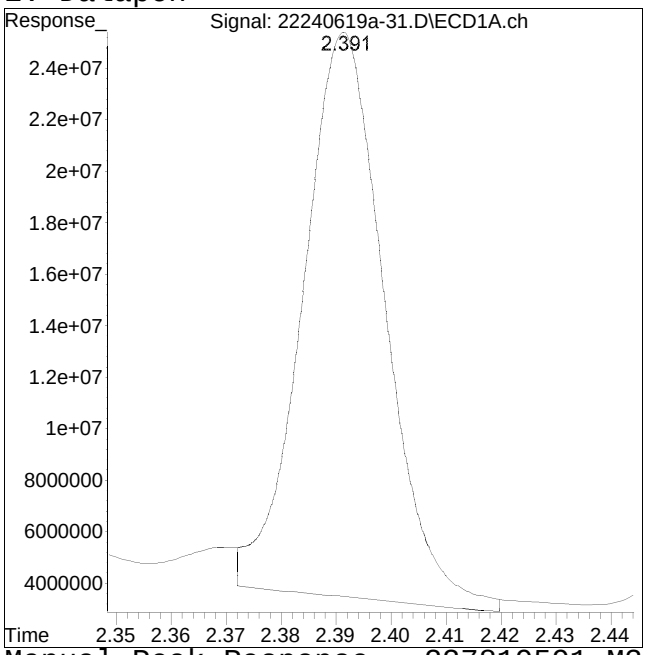
Original Peak Response = 934775603 Manual Peak Response = 935924996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #2: Dalapon



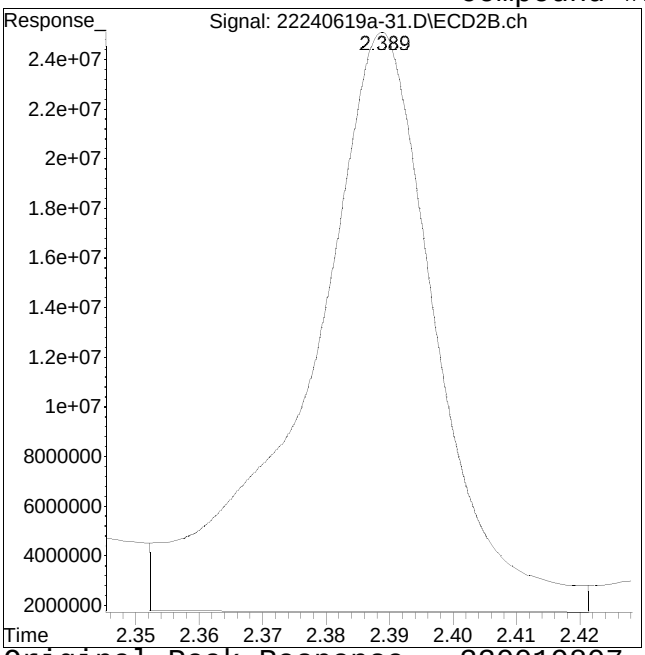


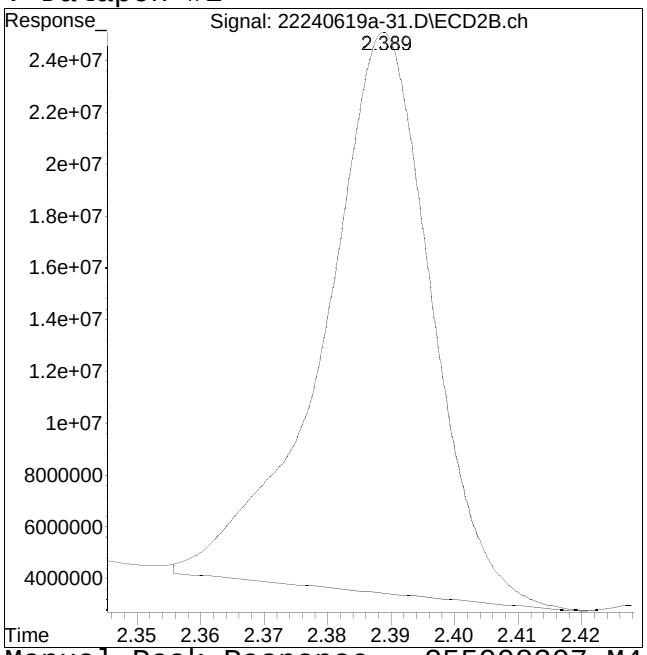
Original Peak Response = 279355770 Manual Peak Response = 227819591 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #15: Dalapon #2



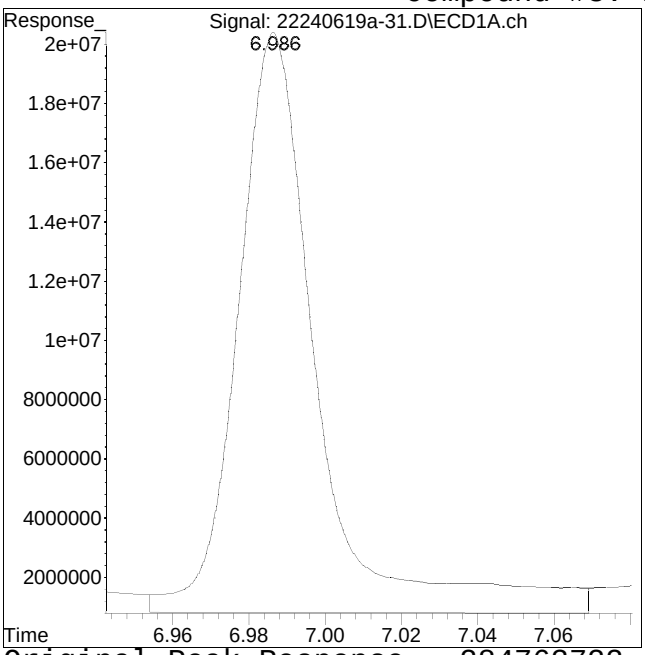


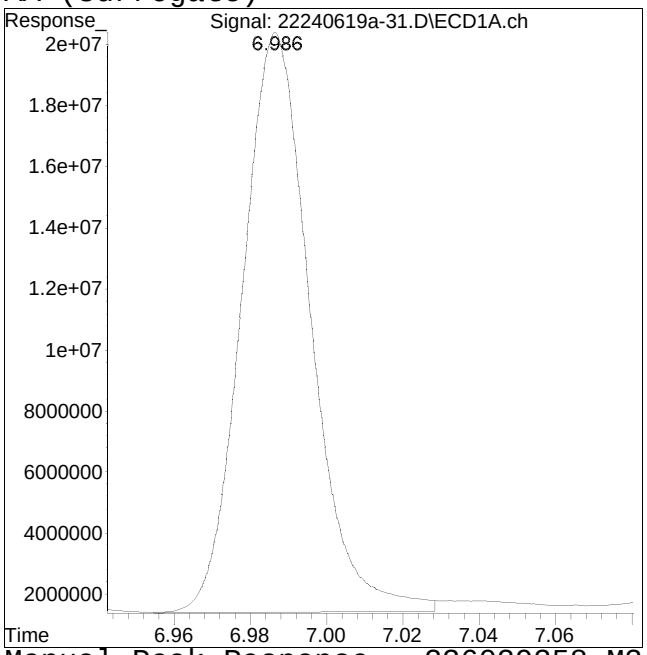
Original Peak Response = 330019807 Manual Peak Response = 255908307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #3: DCAA (surrogate)



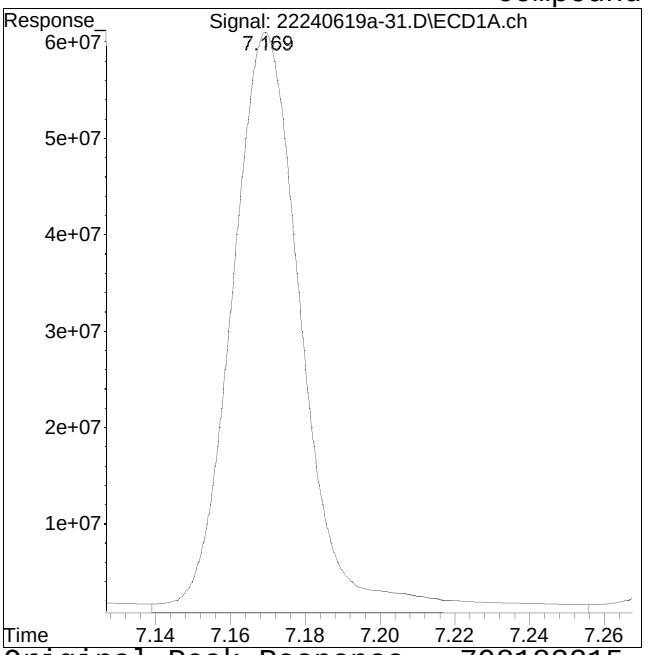


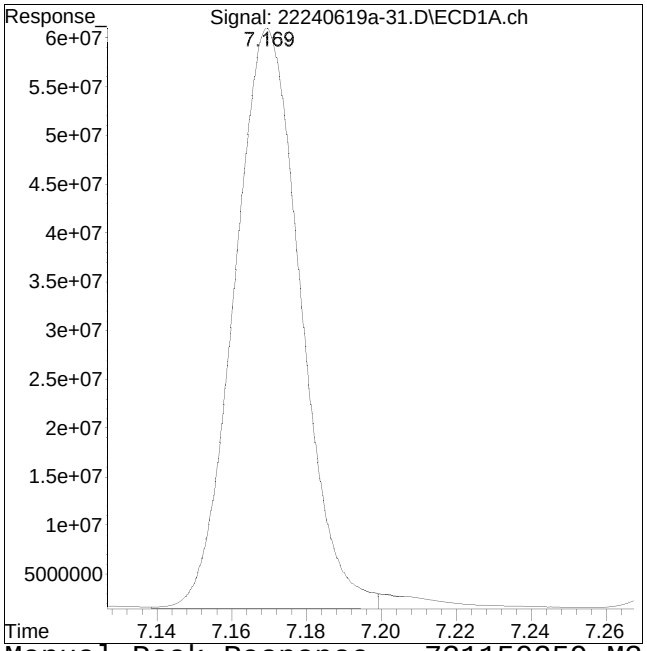
Original Peak Response = 284763722 Manual Peak Response = 236029358 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #4: Dicamba



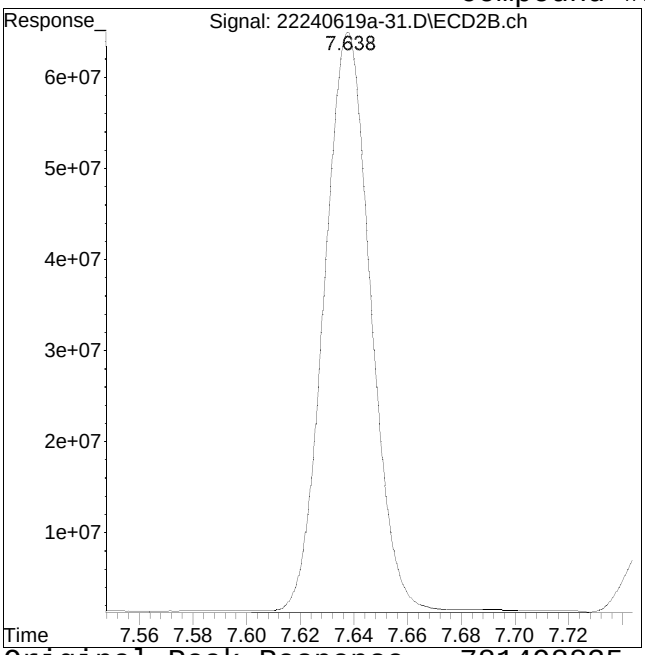


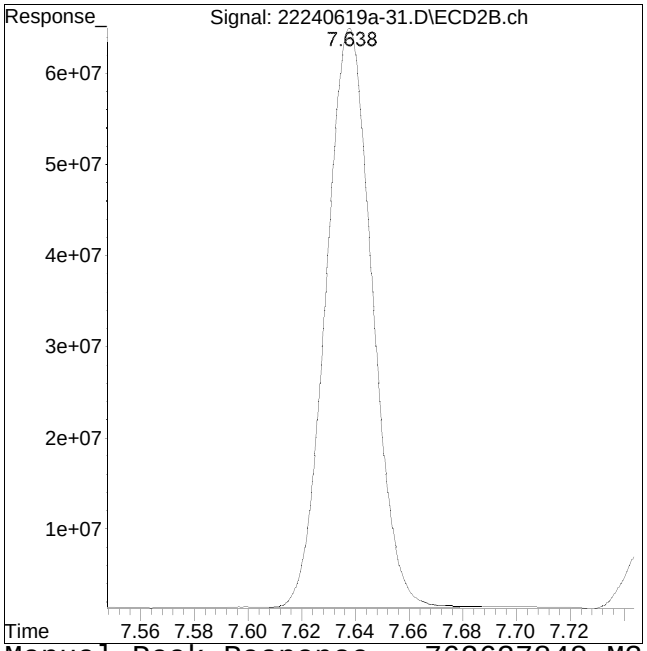
Original Peak Response = 798183315 Manual Peak Response = 731150259 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #17: Dicamba #2



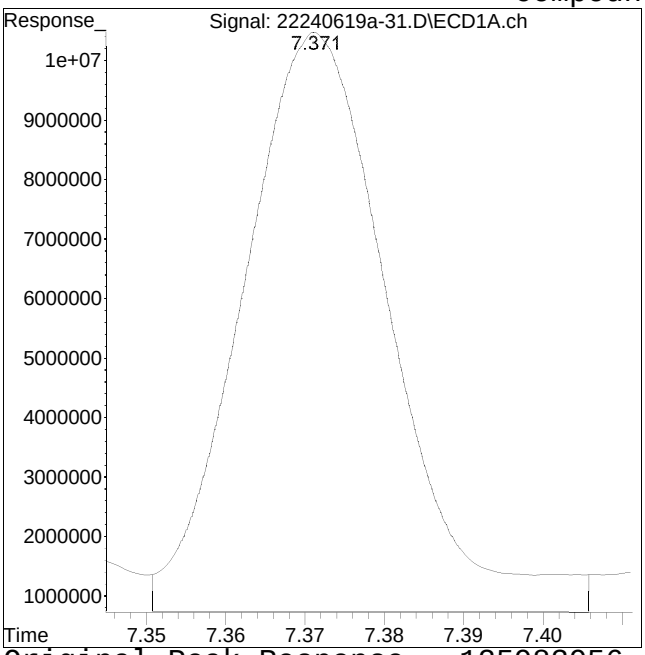


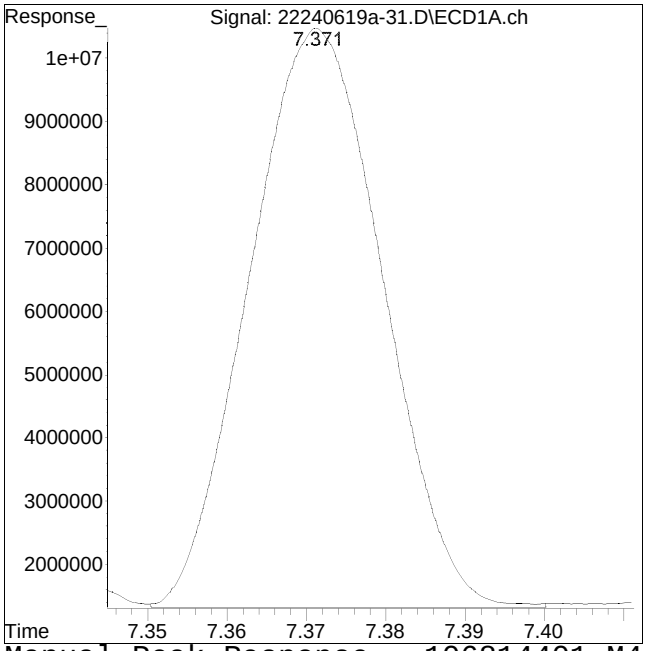
Original Peak Response = 781498835 Manual Peak Response = 762637848 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #5: MCPP



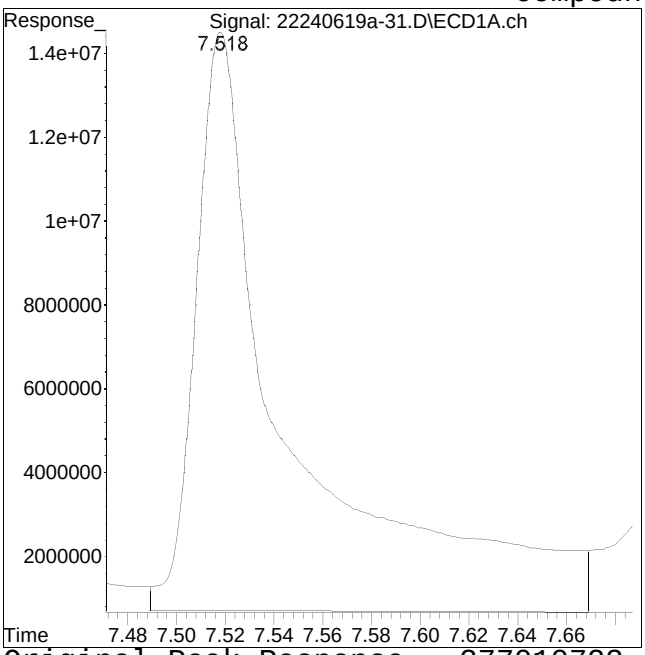


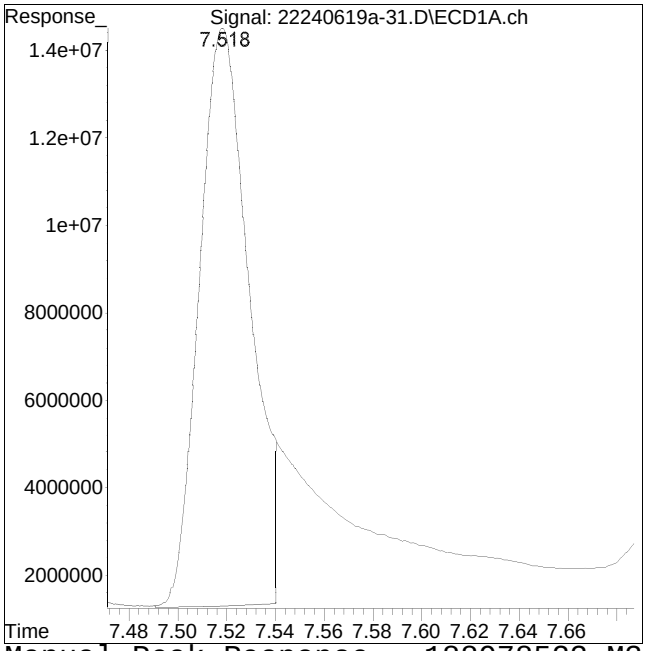
Original Peak Response = 125983956 Manual Peak Response = 106814401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #6: MCPA



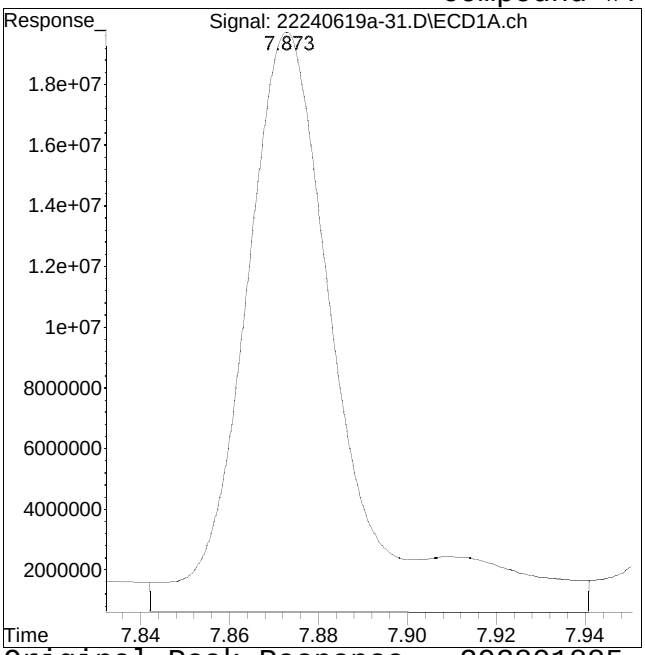


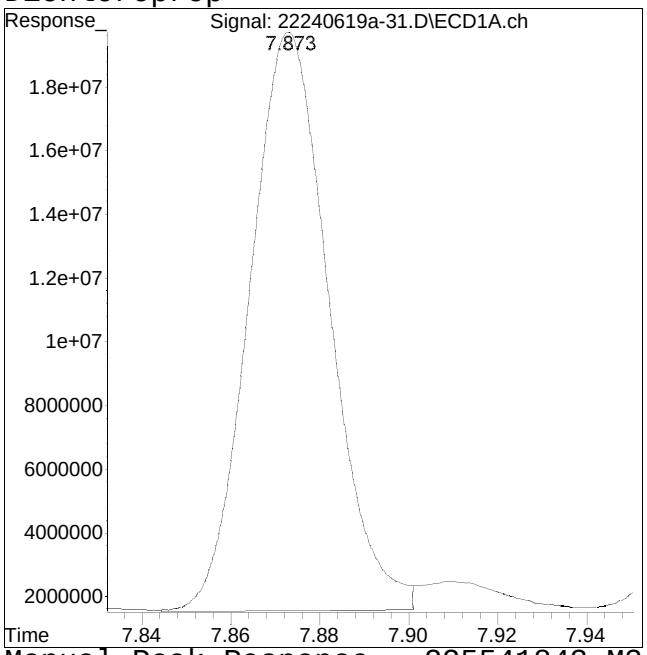
Original Peak Response = 377010723 Manual Peak Response = 188978523 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #7: Dichloroprop



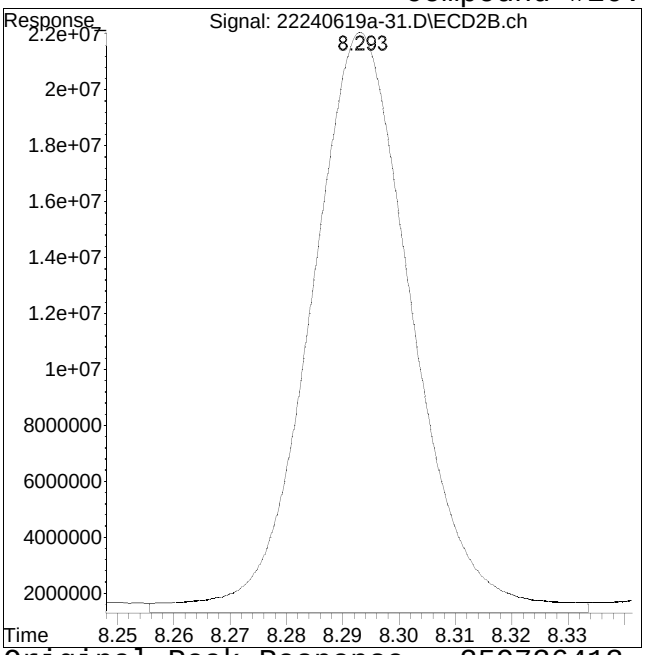


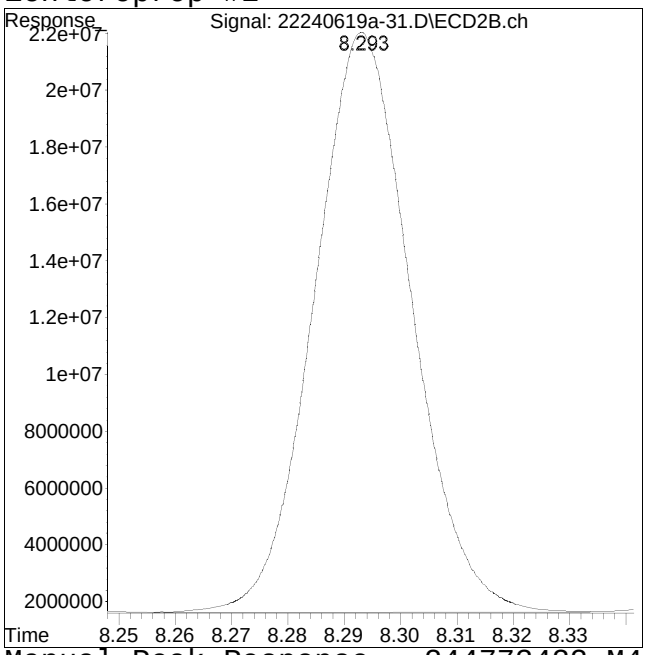
Original Peak Response = 293801885 Manual Peak Response = 225541843 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #20: Dichloroprop #2



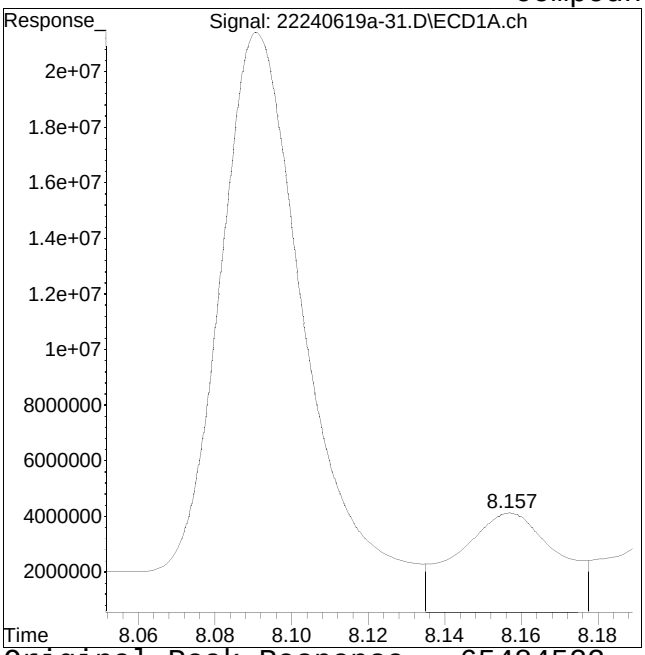


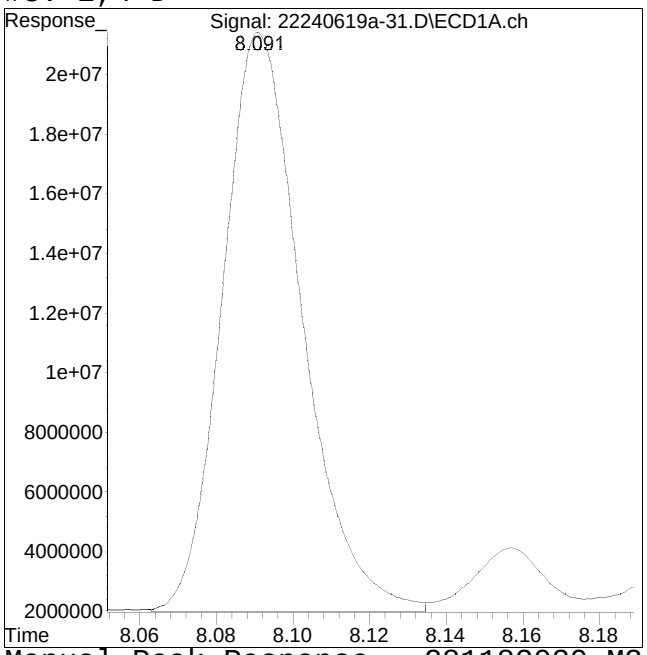
Original Peak Response = 259736413 Manual Peak Response = 244773422 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #8: 2,4-D



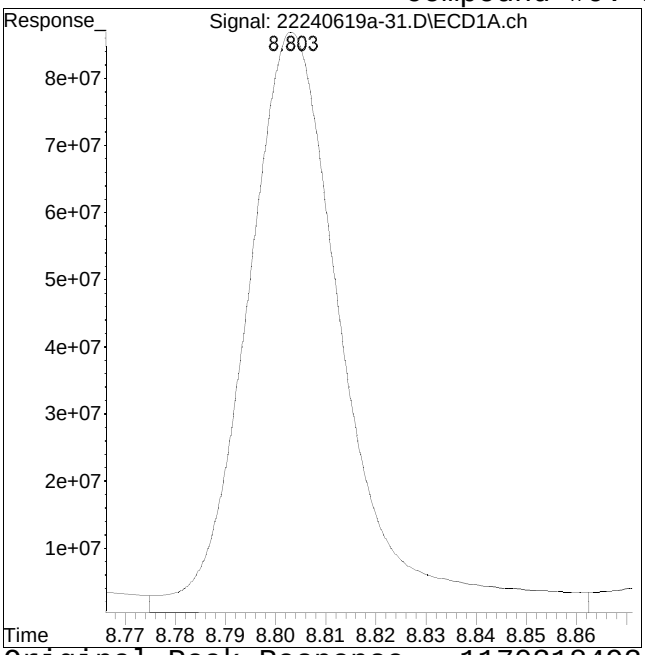


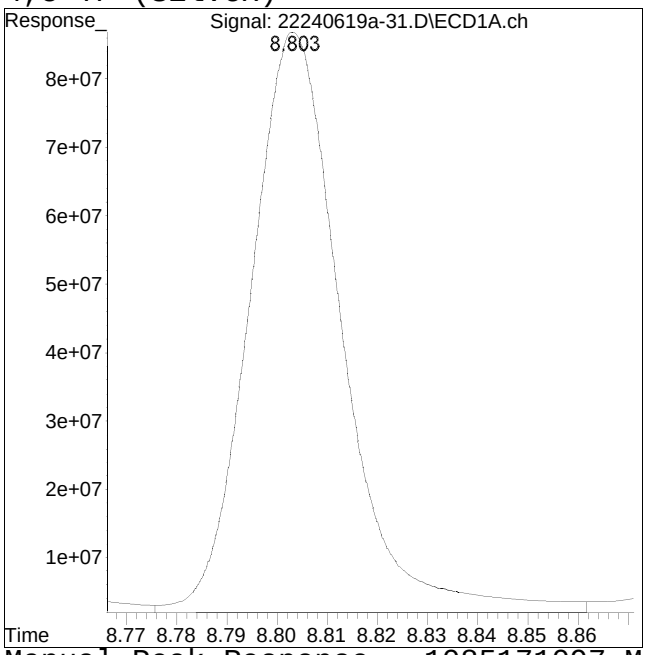
Original Peak Response = 65484522 Manual Peak Response = 281182020 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #9: 2,4,5-TP (Silvex)



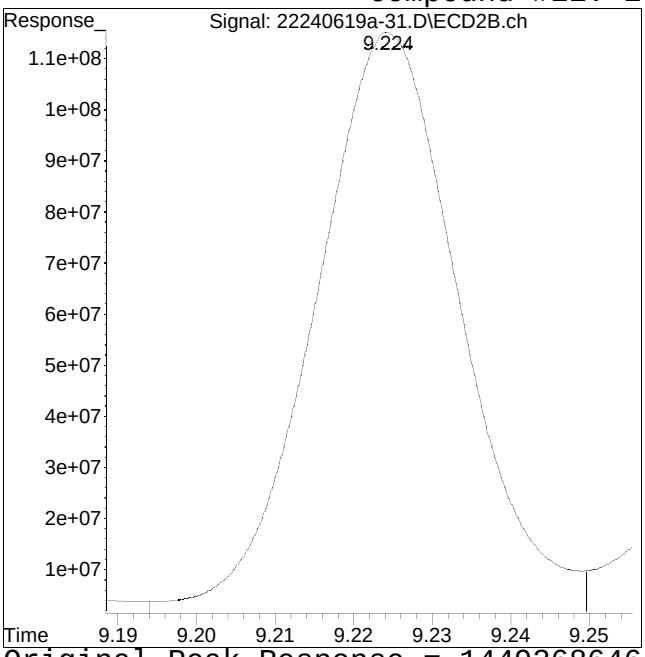


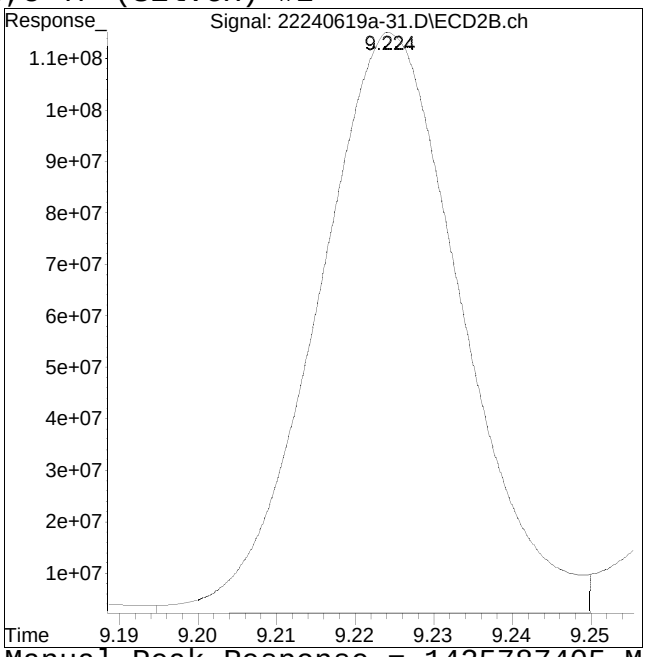
Original Peak Response = 1170318493 Manual Peak Response = 1085171097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #22: 2,4,5-TP (Silvex) #2



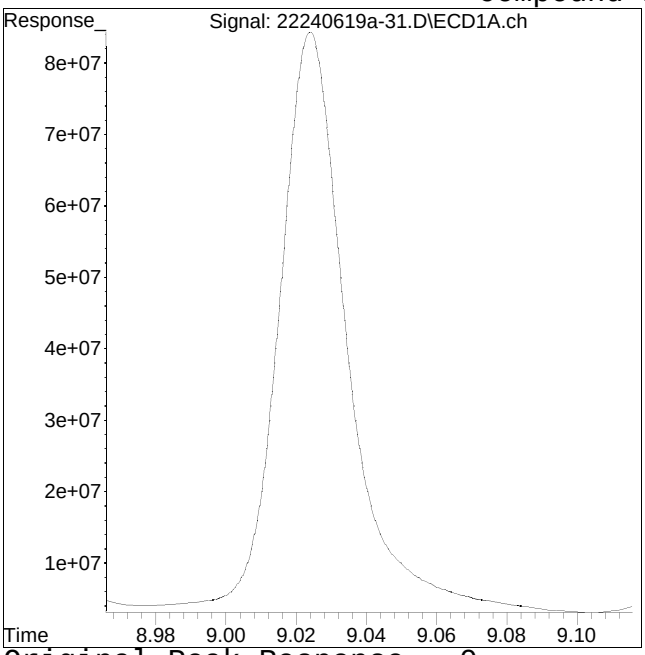


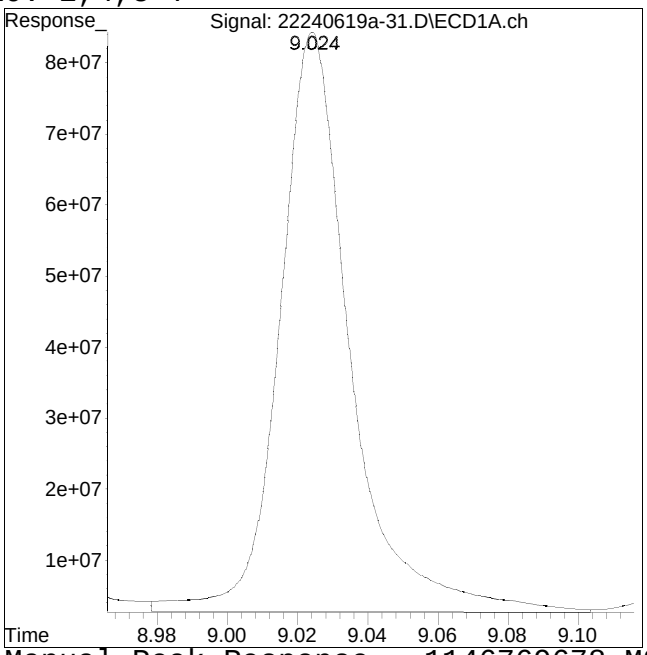
Original Peak Response = 1449268646 Manual Peak Response = 1425787405 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #10: 2,4,5-T



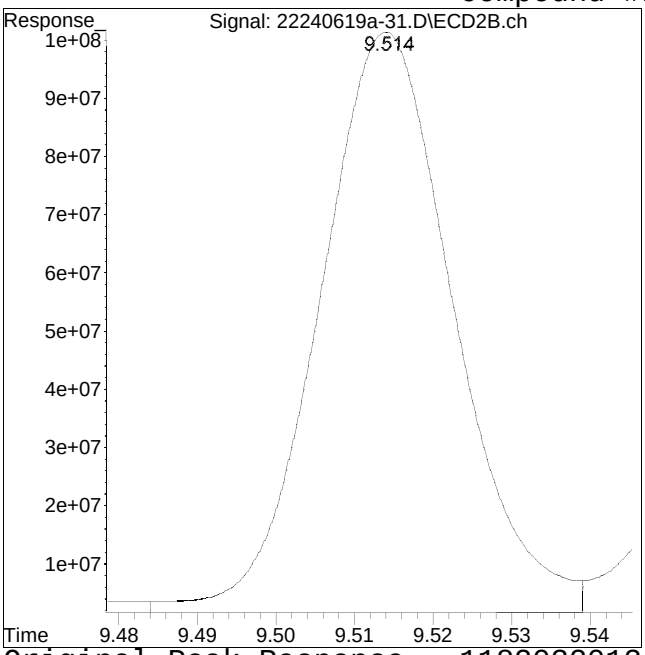


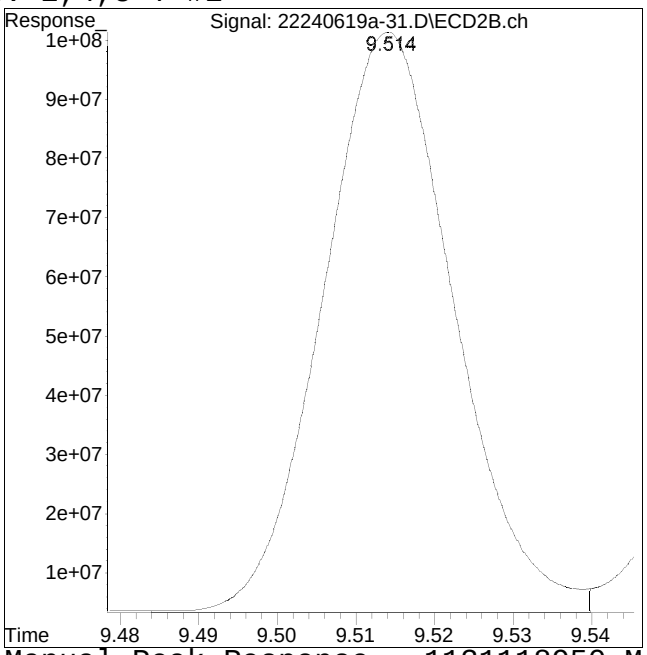
Original Peak Response = 0 Manual Peak Response = 1146769678 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #23: 2,4,5-T #2



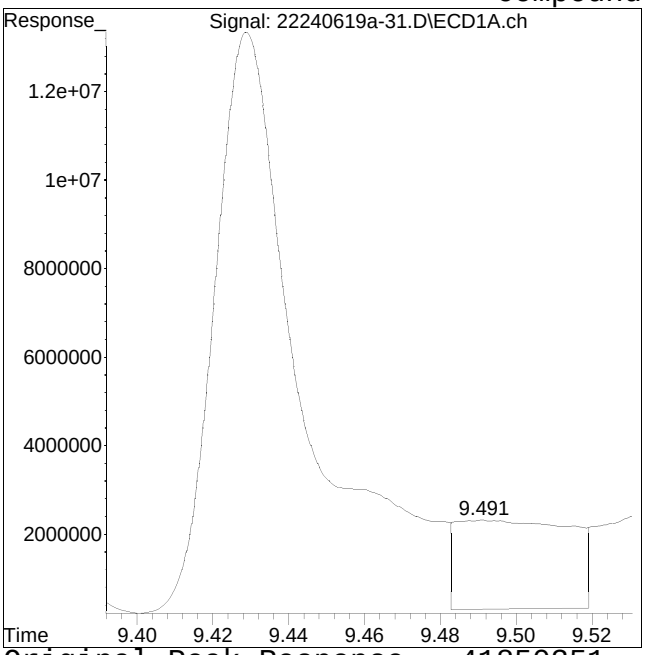


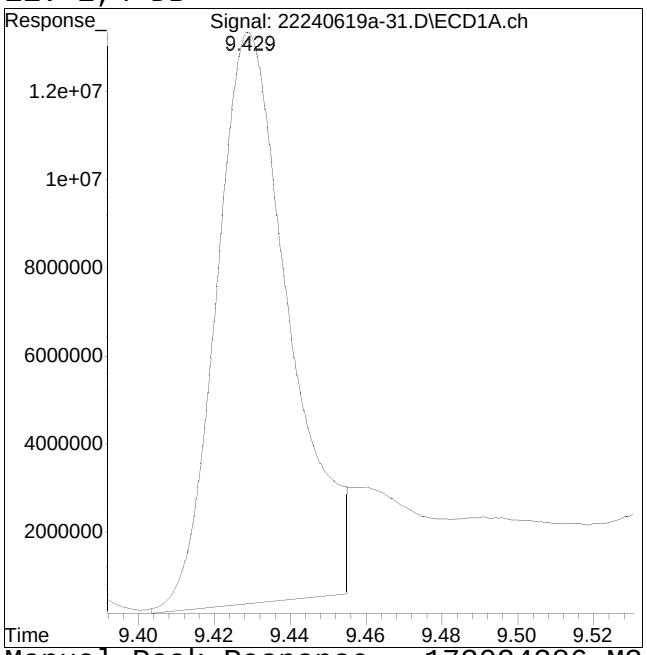
Original Peak Response = 1182032013 Manual Peak Response = 1131118950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #11: 2,4-DB



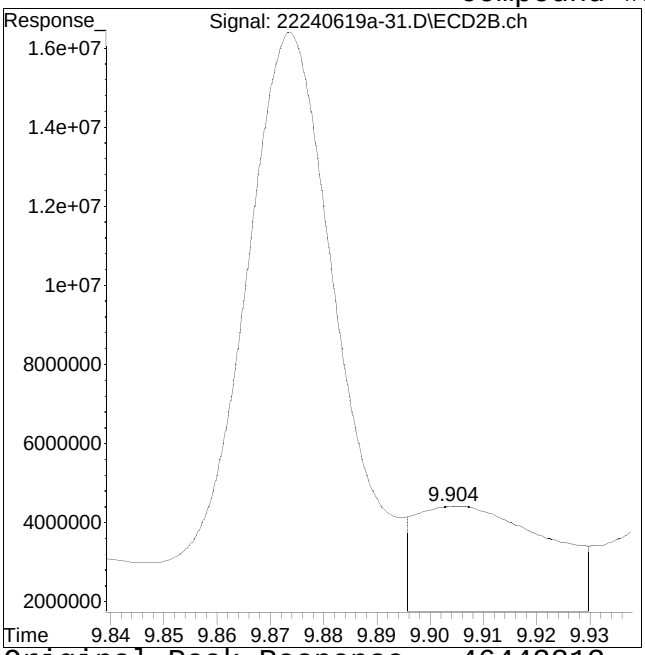


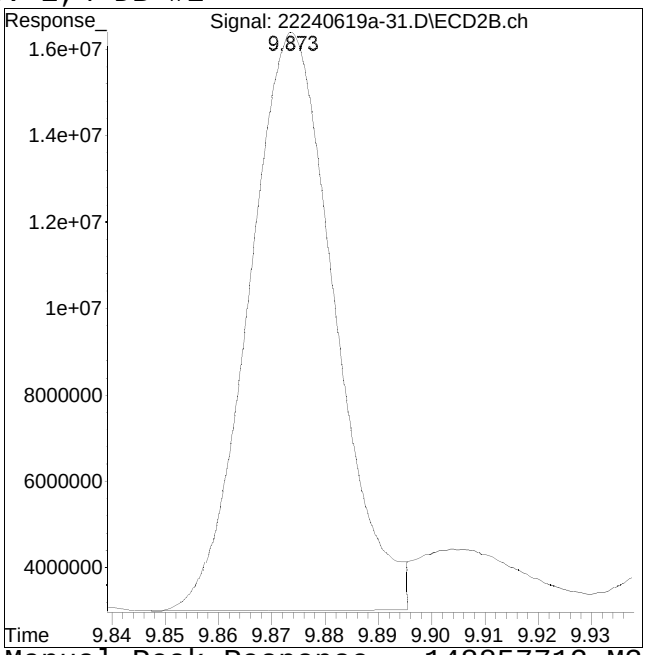
Original Peak Response = 41850351 Manual Peak Response = 173024386 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #24: 2,4-DB #2



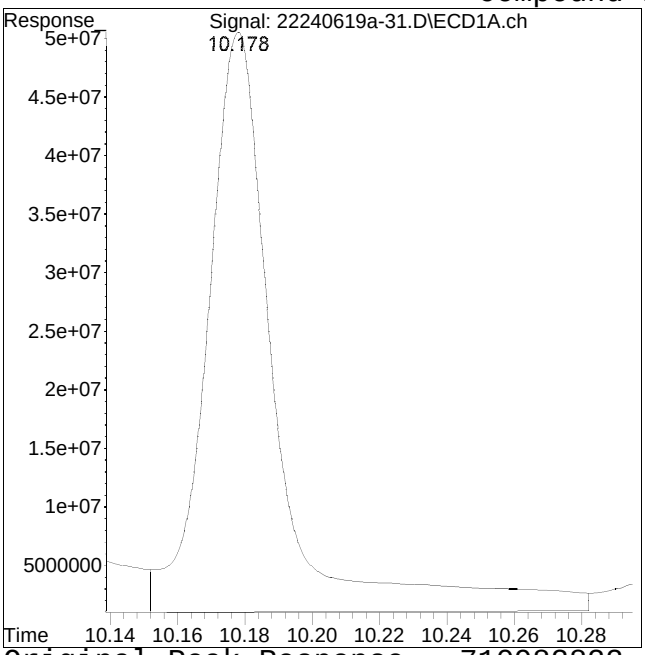


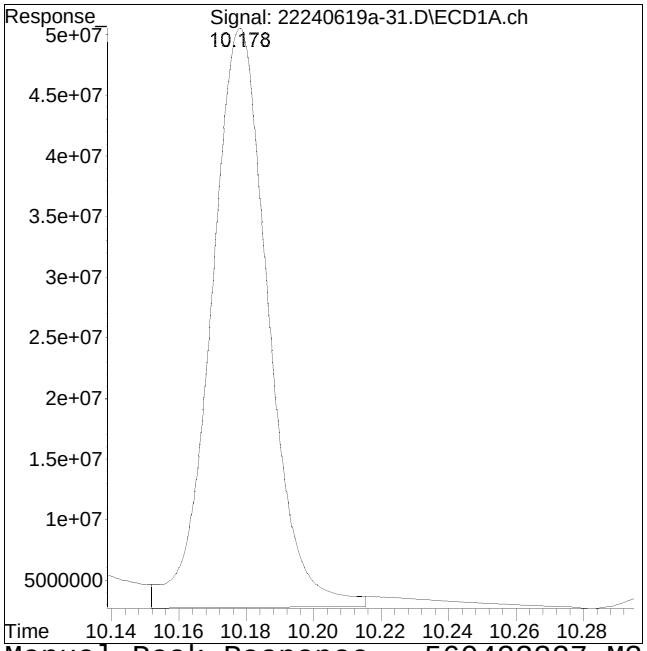
Original Peak Response = 46442213 Manual Peak Response = 148857712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #12: Dinoseb



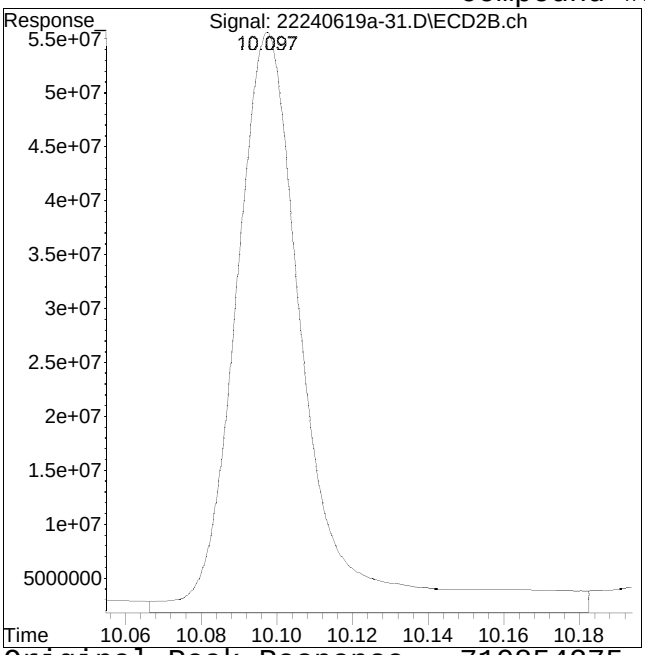


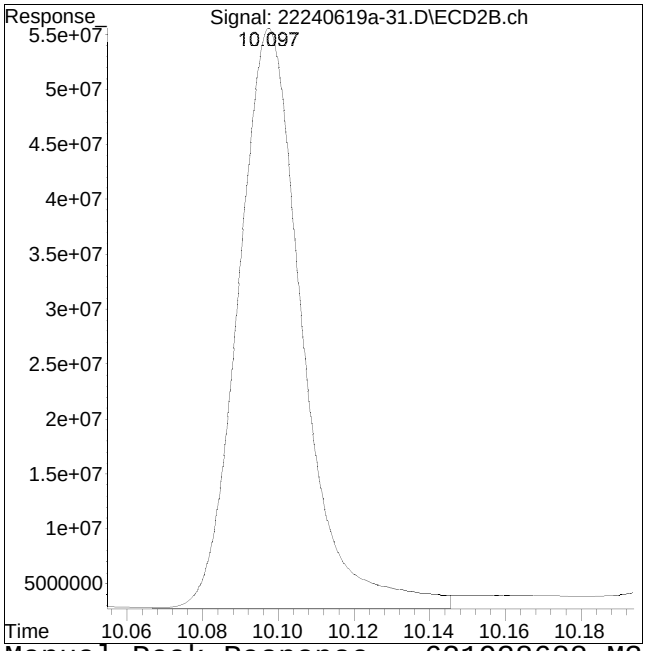
Original Peak Response = 710982822 Manual Peak Response = 560433327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-31.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:08 pm Instrument : Pest22
Sample : WG1935934-4,42,, ms Quant Date : 6/19/2024 6:02 pm

Compound #25: Dinoseb #2





Original Peak Response = 710854275 Manual Peak Response = 621938688 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-32.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:27 pm
Operator : pest22:ejl
Sample : WG1935934-5,42,, msd
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:58 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240619a\22240619a-18.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.530	8.527	756.6E6	798.2E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 883326324				Recovery =	85.65%	
	Standard Area 1 : #2 = 891276115				Recovery =	89.55%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.986	7.457	250.4E6	300.6E6	0.402M4	0.465
	Spiked Amount	0.500	Range 30 - 150		Recovery =	80.40%	93.00%
	Target Compounds						
2) t	Dalapon	2.390	2.388	222.7E6	279.8E6	0.348M3	0.444M4
4) t	Dicamba	7.170	7.637	773.6E6	786.8E6	0.434M4	0.415M3
5) t	MCPP	7.371	7.749	111.0E6	89302237	70.376M4	38.003M4
6) t	MCPA	7.518	7.976	173.9E6	182.6E6	59.430M3	46.141M3
7) t	Dichloroprop	7.873	8.293	235.4E6	252.5E6	0.403M4	0.412M4
8) t	2,4-D	8.091f	8.569f	296.6E6	391.5E6	0.409M2	0.517
9) t	2,4,5-TP (Si	8.804f	9.225	1096.7E6	1299.5E6	0.418M4	0.475M4
10) t	2,4,5-T	9.024f	9.514f	1193.7E6	1180.0E6	0.462M2	0.445M4
11) t	2,4-DB	9.430f	9.874f	171.2E6	164.3E6	0.428M2	0.366M3
12) t	Dinoseb	10.178	10.098	607.5E6	621.1E6	0.407M4	0.396M3
	SemiQuant Compounds - Not Calibrated on this Instrument						

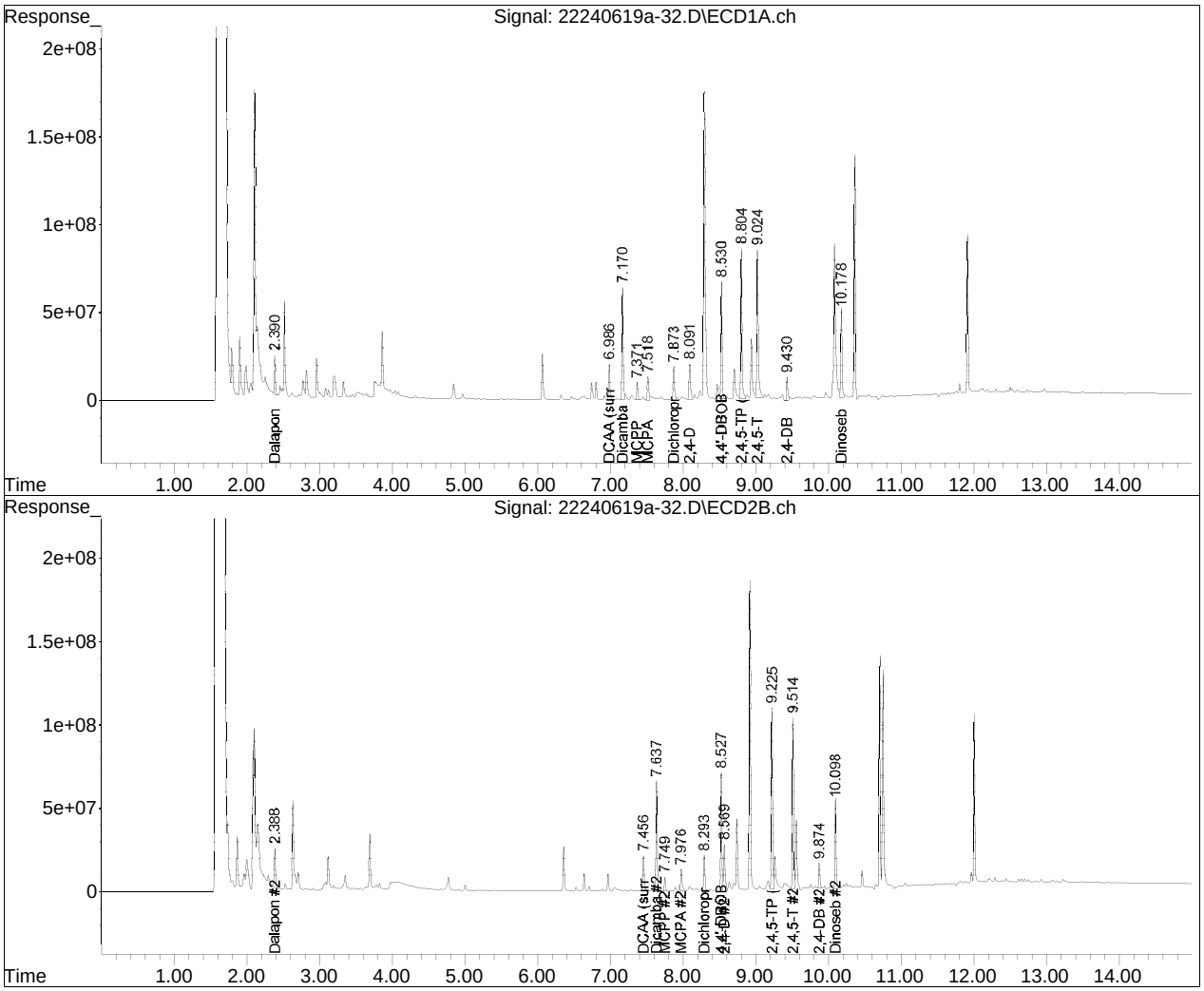
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240619a-18.D•

Data Path : I:\PEST\Pest22\2024\240619a\
Data File : 22240619a-32.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jun 2024 05:27 pm
Operator : pest22:ejl
Sample : WG1935934-5,42,, msd
Misc : wg1936304,WG1935934,ical21040
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 18:02:58 2024
Quant Method : I:\PEST\Pest22\2024\240619a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Wed Jun 19 07:42:14 2024
Response via : Initial Calibration
Integrator: ChemStation

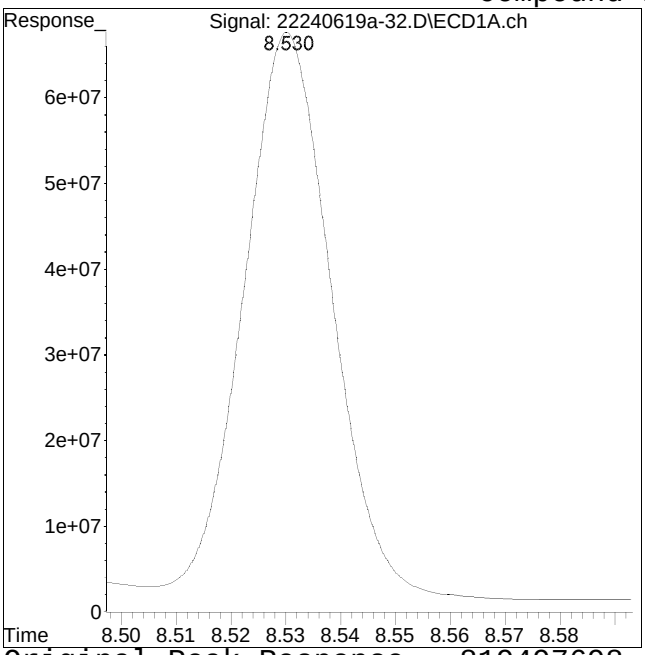
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

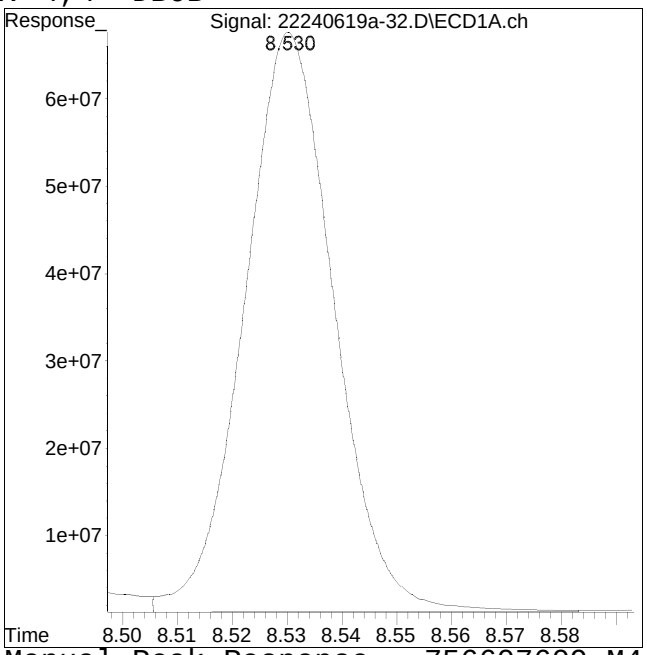


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #1: 4,4'-DBOB



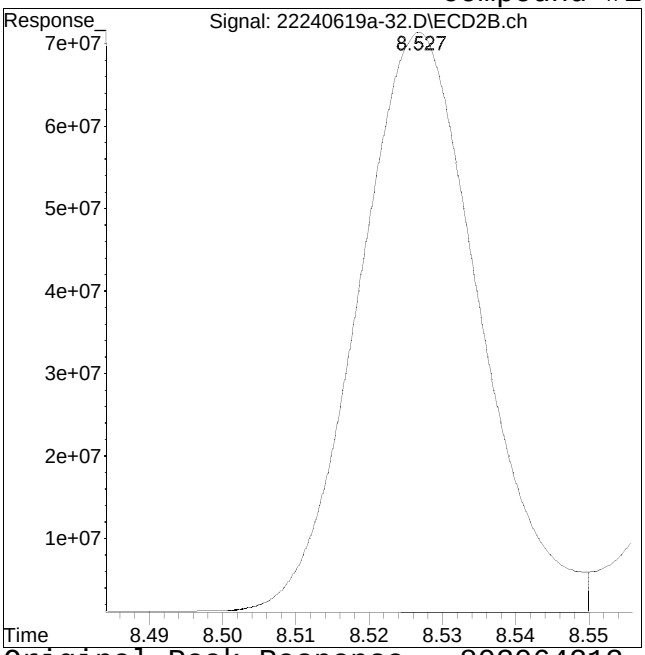


Original Peak Response = 819497698 Manual Peak Response = 756607609 M4
M4 = Poor automated baseline construction.

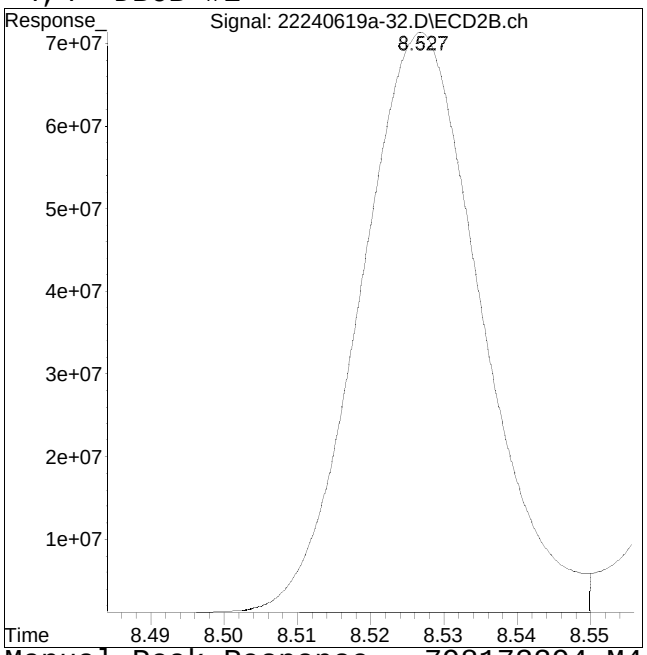
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 803064213



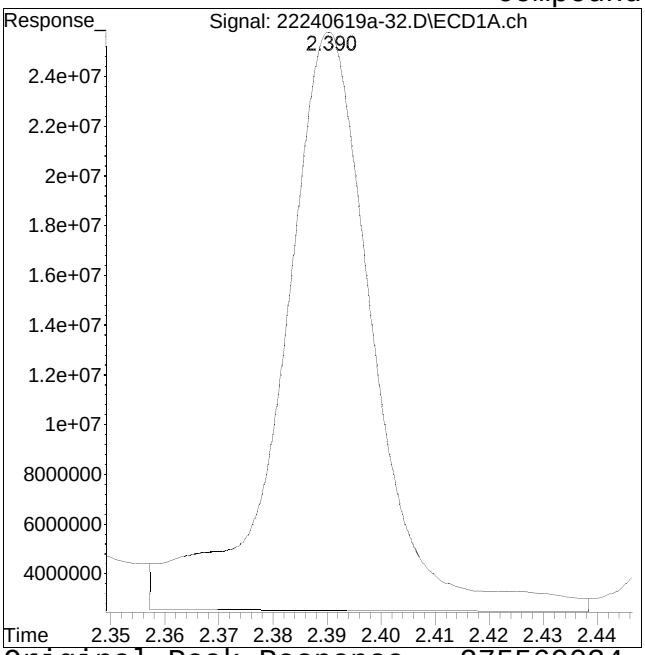
Manual Peak Response = 798173394 M4

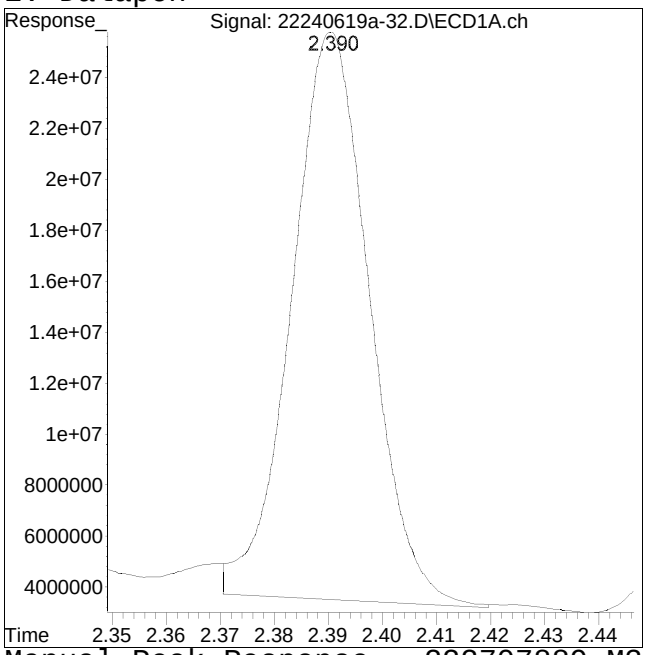
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #2: Dalapon



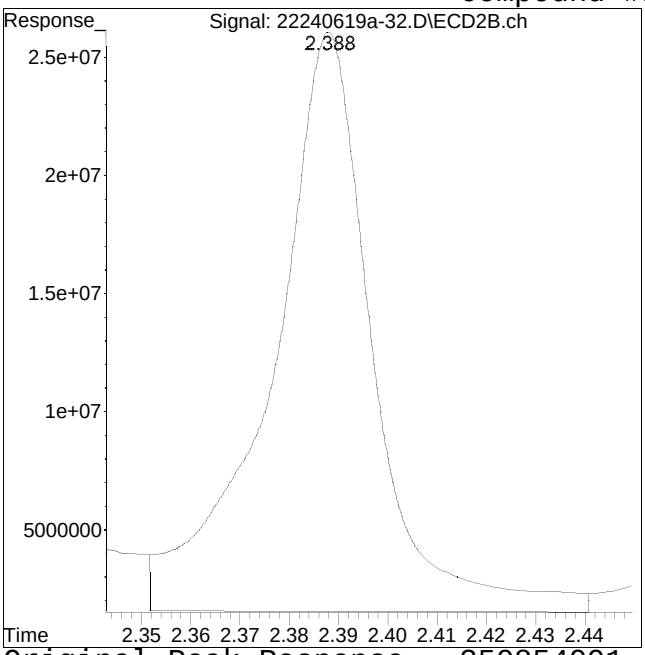


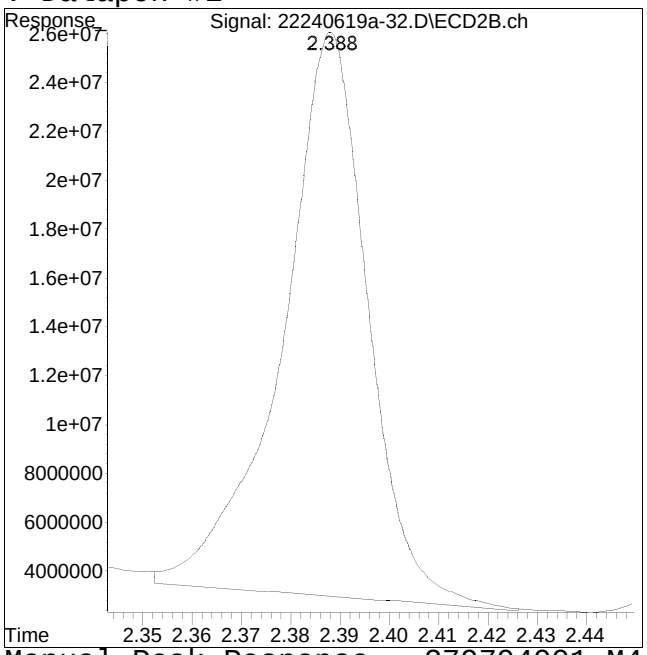
Original Peak Response = 275569034 Manual Peak Response = 222707889 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #15: Dalapon #2



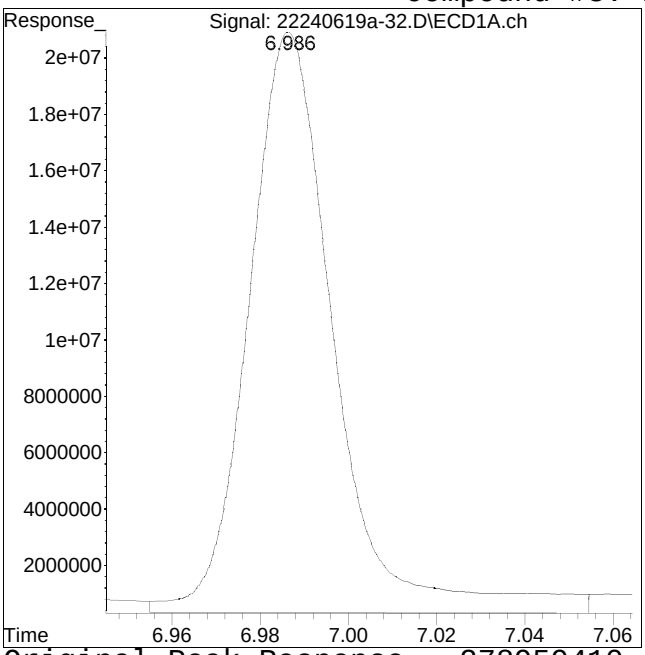


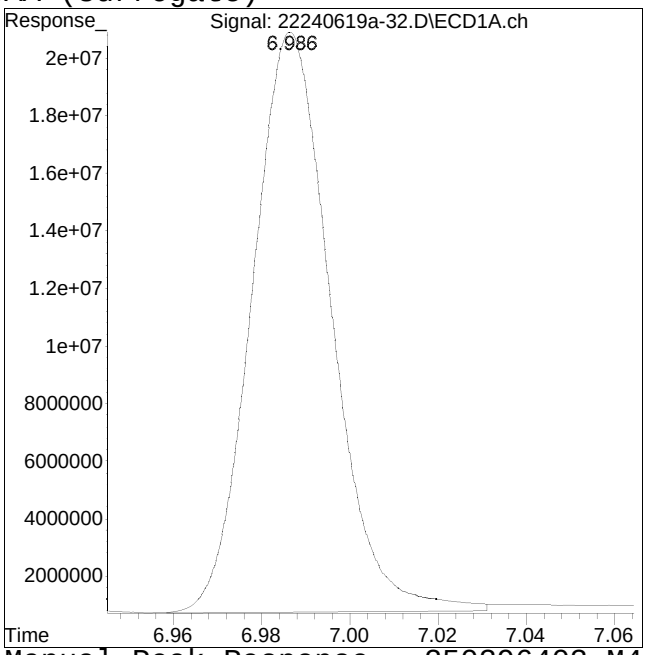
Original Peak Response = 350854991 Manual Peak Response = 279794991 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #3: DCAA (surrogate)



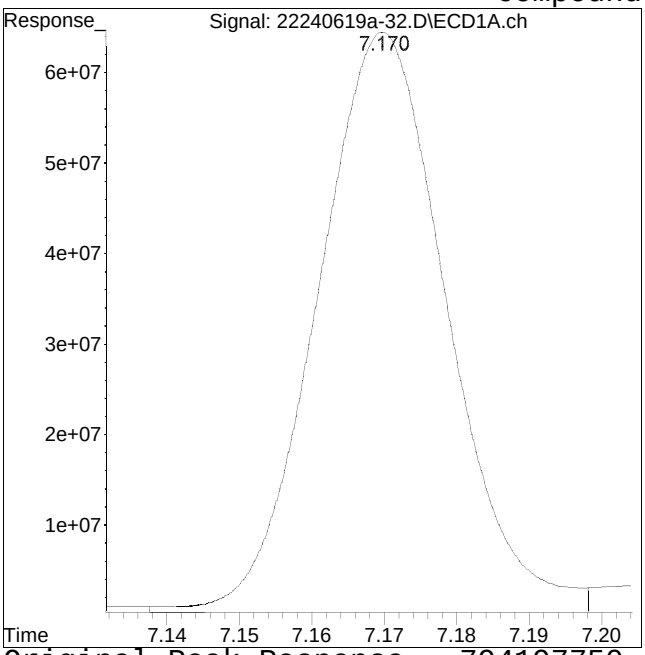


Original Peak Response = 278959410 Manual Peak Response = 250396403 M4
M4 = Poor automated baseline construction.

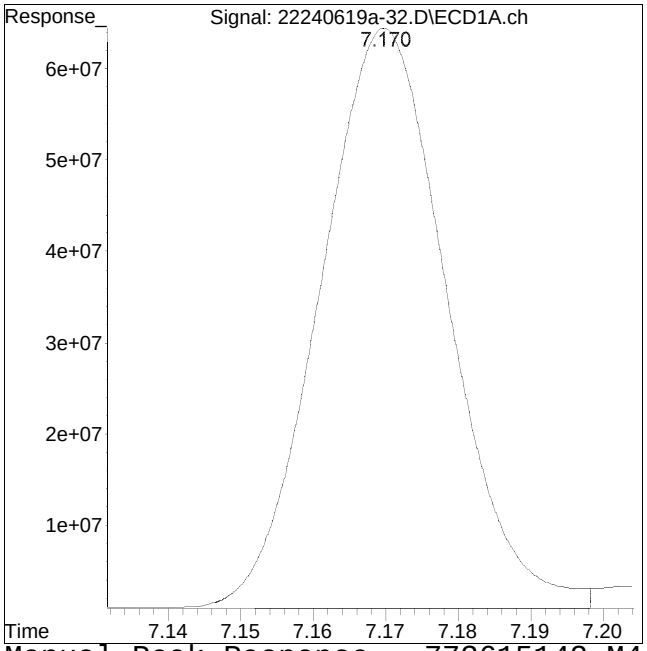
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #4: Dicamba



Original Peak Response = 794197750

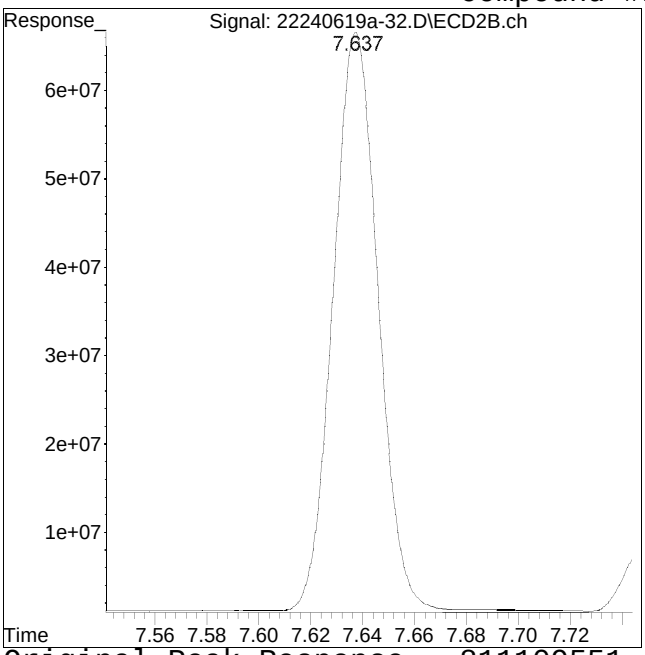


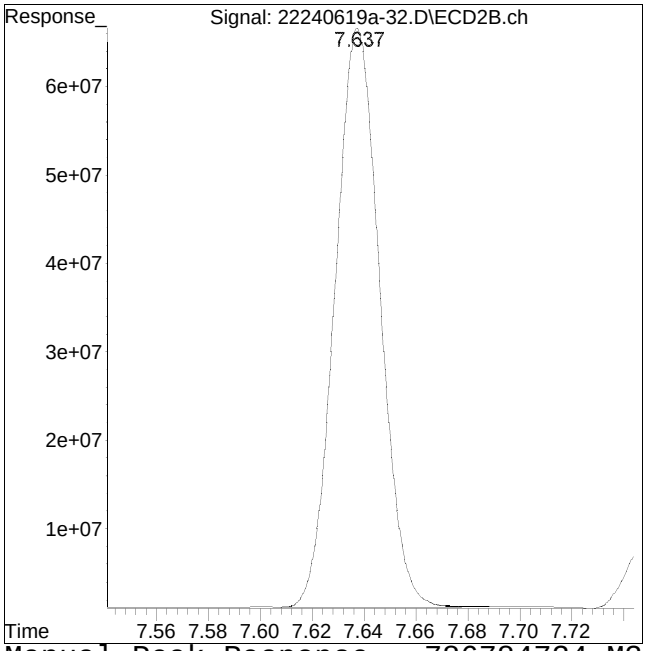
Manual Peak Response = 773615142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #17: Dicamba #2



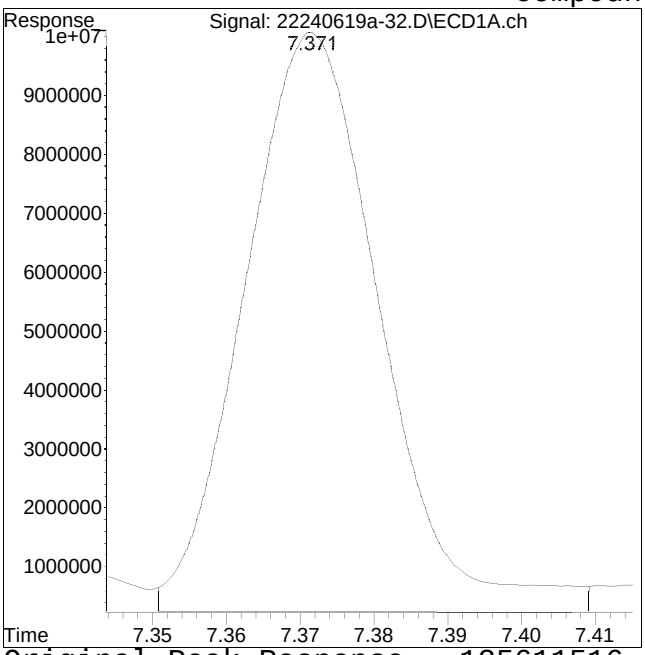


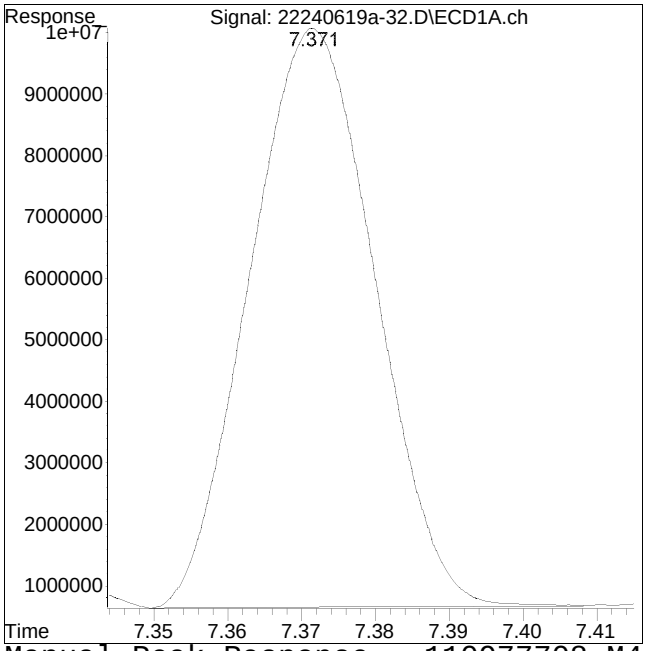
Original Peak Response = 811109551 Manual Peak Response = 786784734 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #5: MCPP



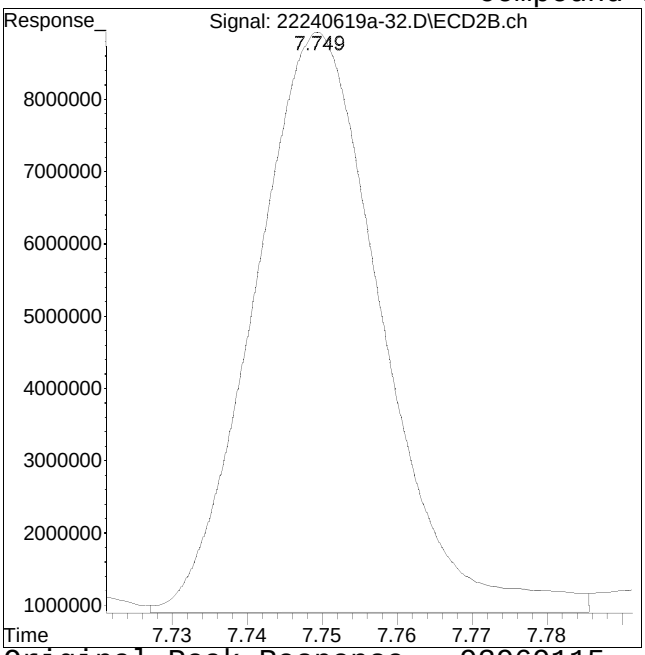


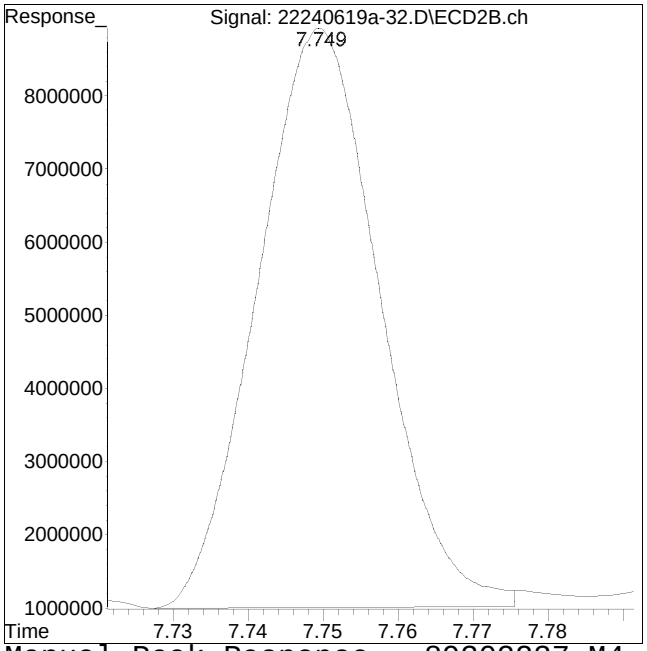
Original Peak Response = 125611516 Manual Peak Response = 110977708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #18: MCPP #2



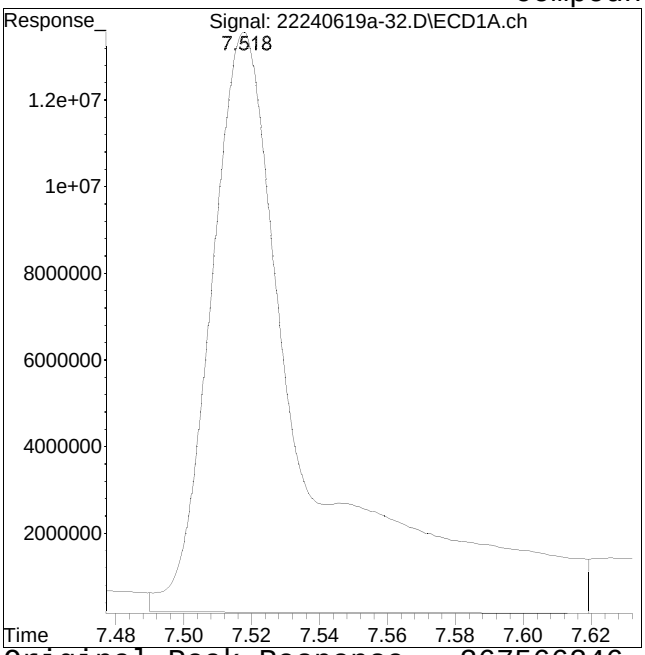


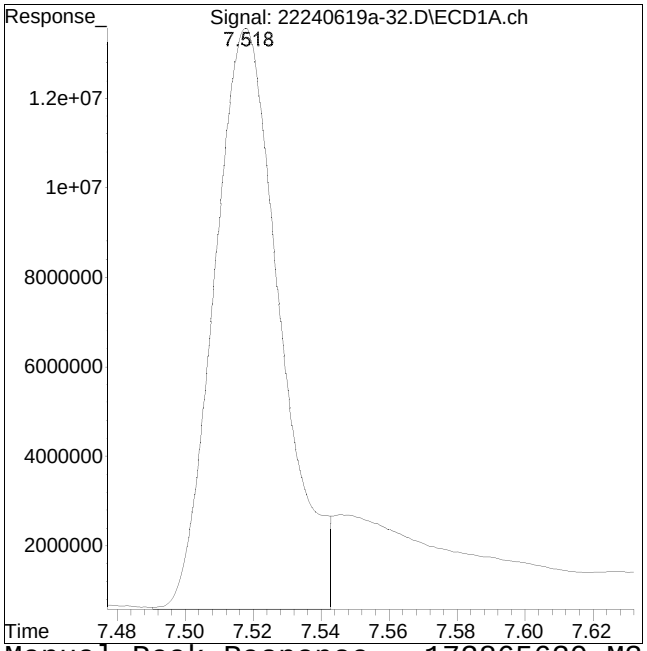
Original Peak Response = 93969115 Manual Peak Response = 89302237 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #6: MCPA



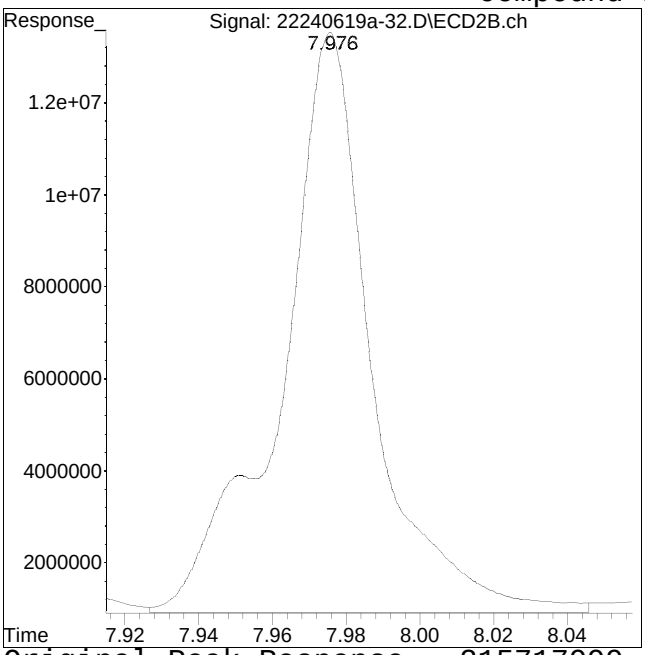


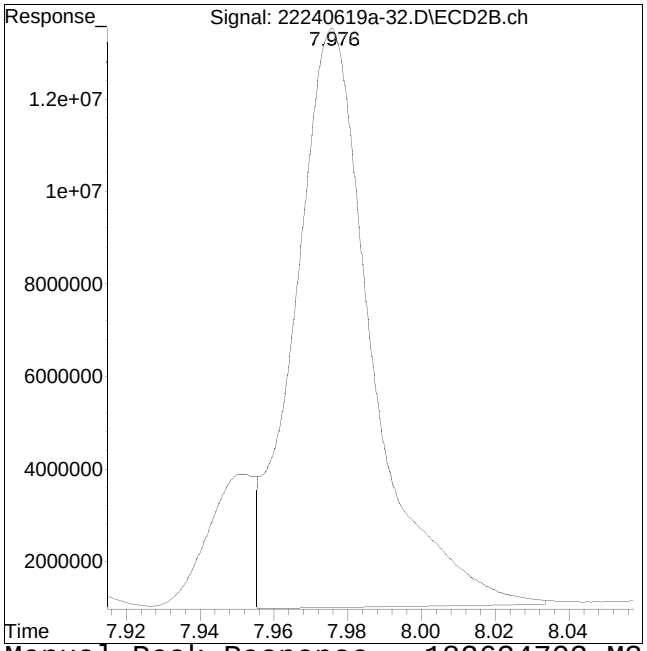
Original Peak Response = 267566246 Manual Peak Response = 173865630 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #19: MCPA #2



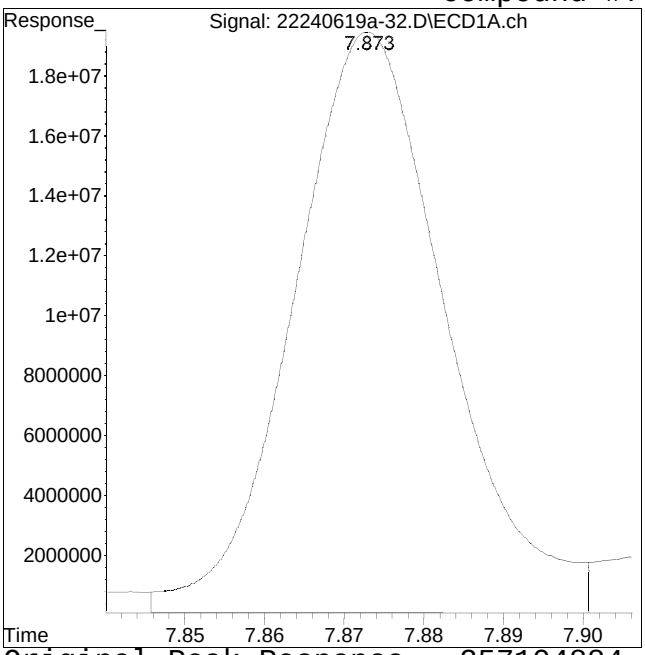


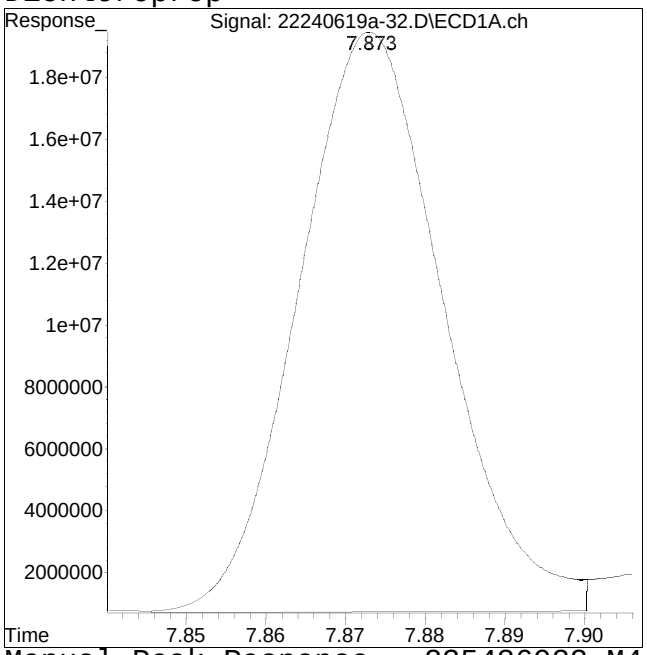
Original Peak Response = 215717999 Manual Peak Response = 182634703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #7: Dichloroprop



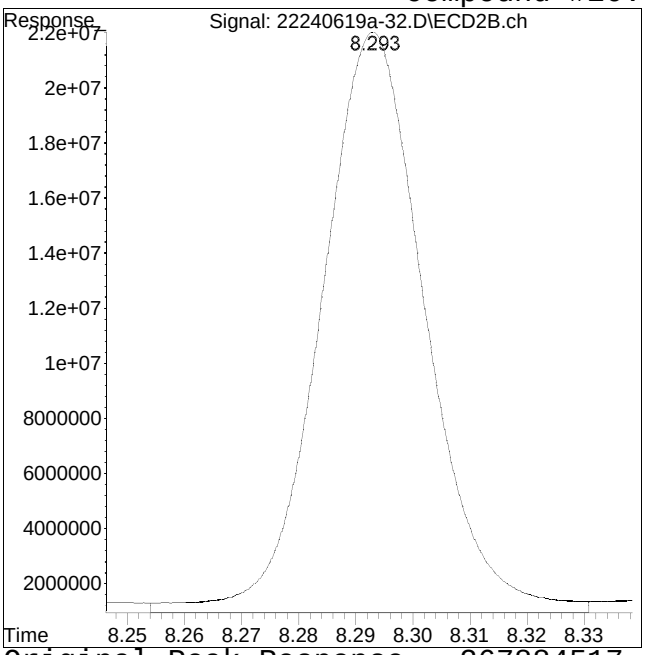


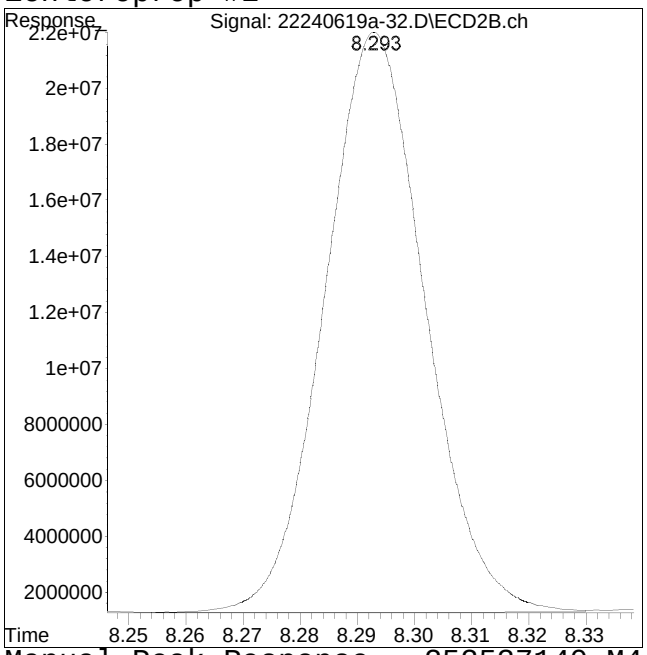
Original Peak Response = 257104884 Manual Peak Response = 235436922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #20: Dichloroprop #2



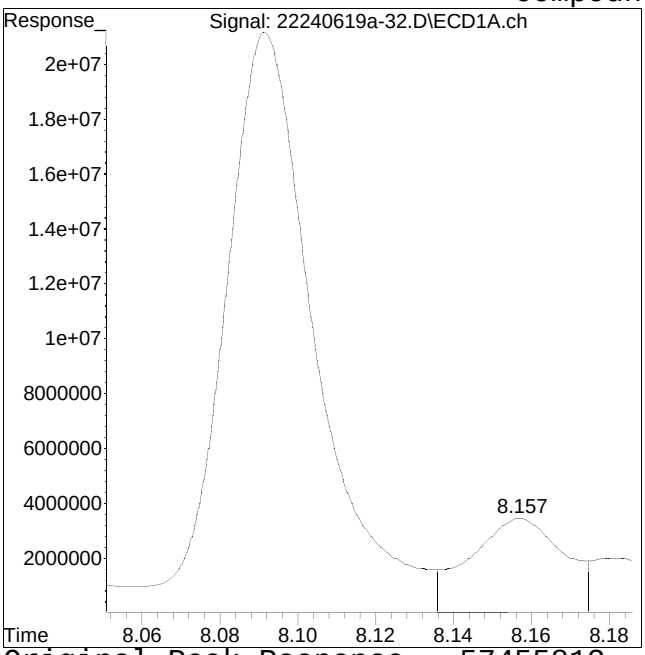


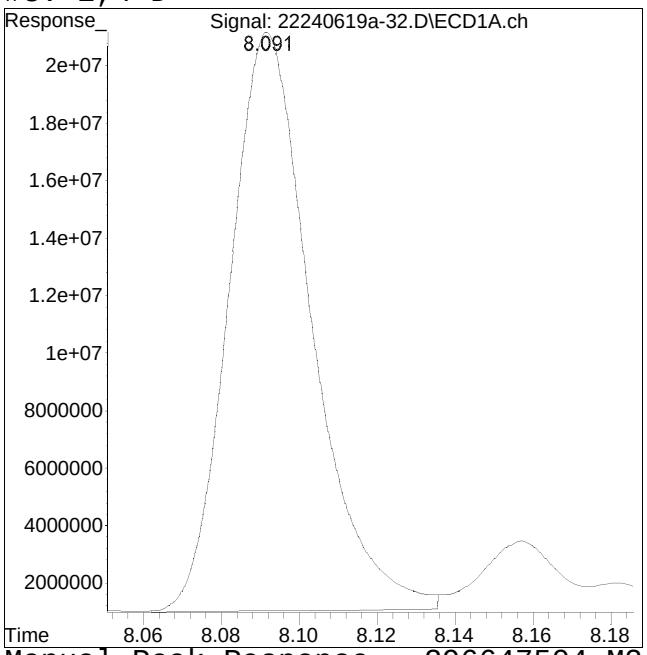
Original Peak Response = 267884517 Manual Peak Response = 252537140 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #8: 2,4-D



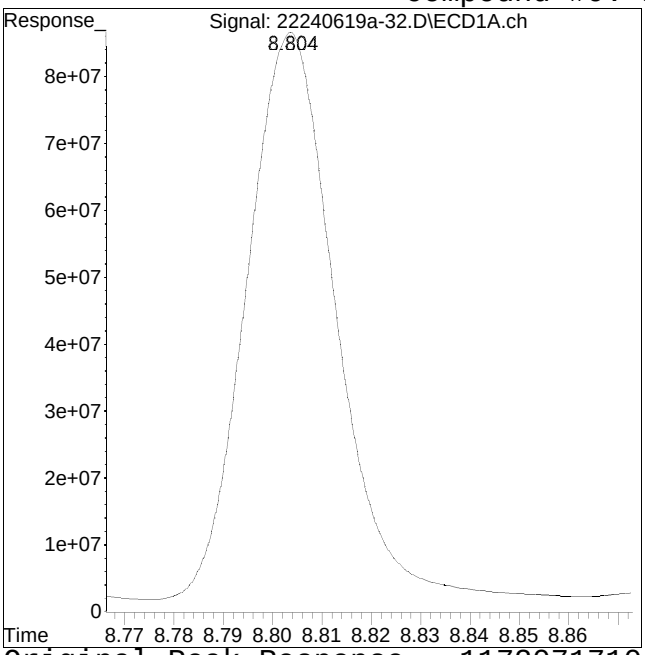


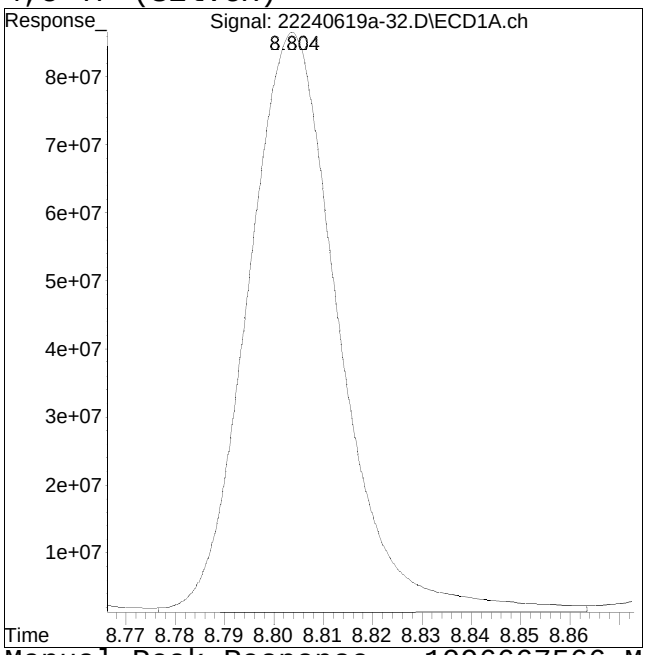
Original Peak Response = 57455813 Manual Peak Response = 296647504 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #9: 2,4,5-TP (Silvex)



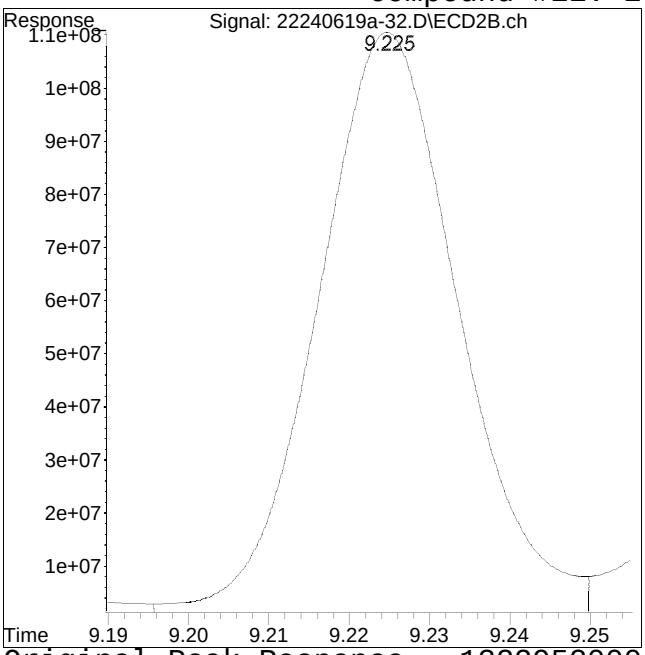


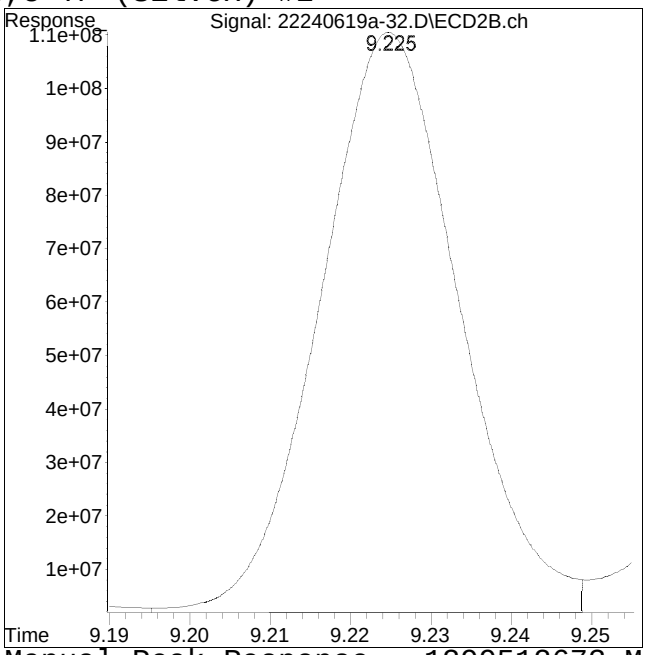
Original Peak Response = 1172071710 Manual Peak Response = 1096667566 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #22: 2,4,5-TP (Silvex) #2



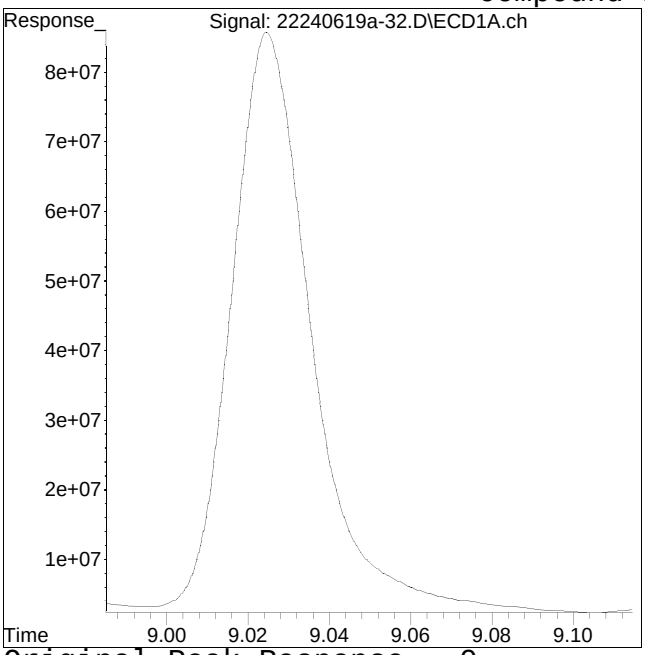


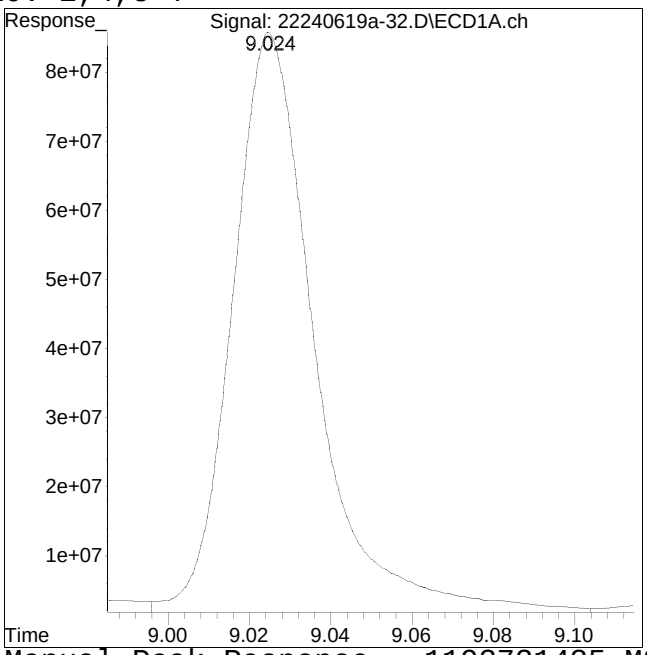
Original Peak Response = 1322952000 Manual Peak Response = 1299512673 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #10: 2,4,5-T



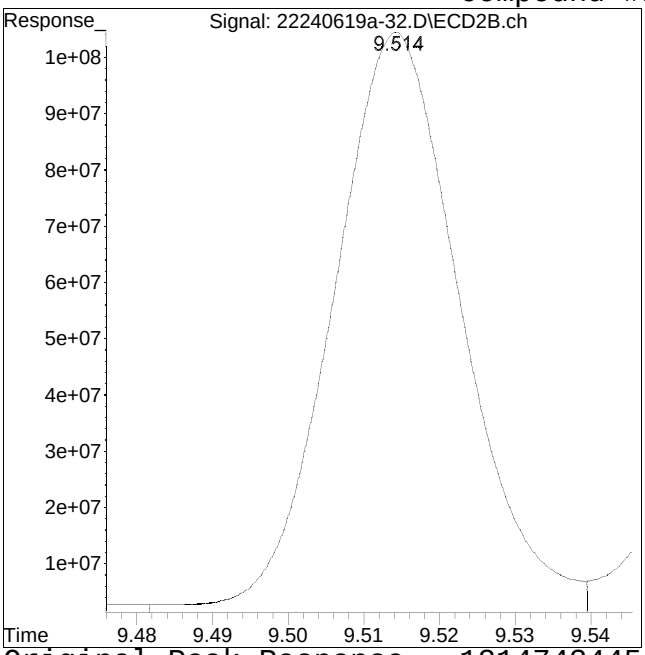


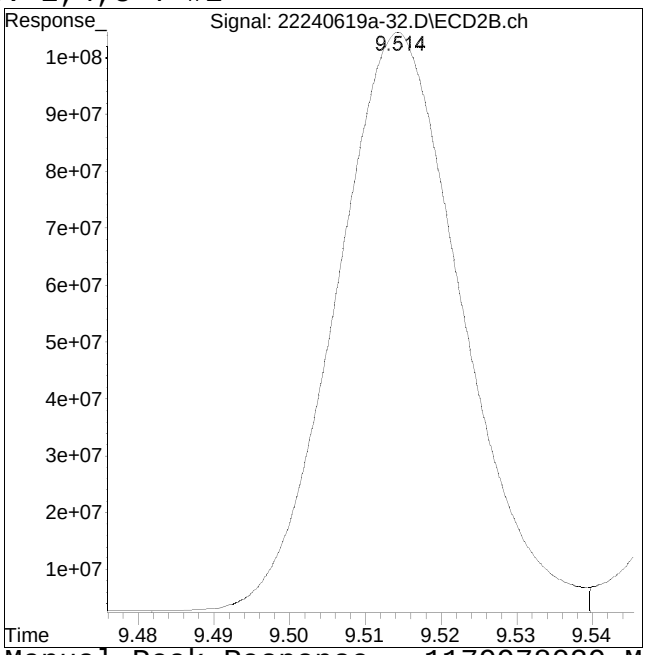
Original Peak Response = 0 Manual Peak Response = 1193731435 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #23: 2,4,5-T #2



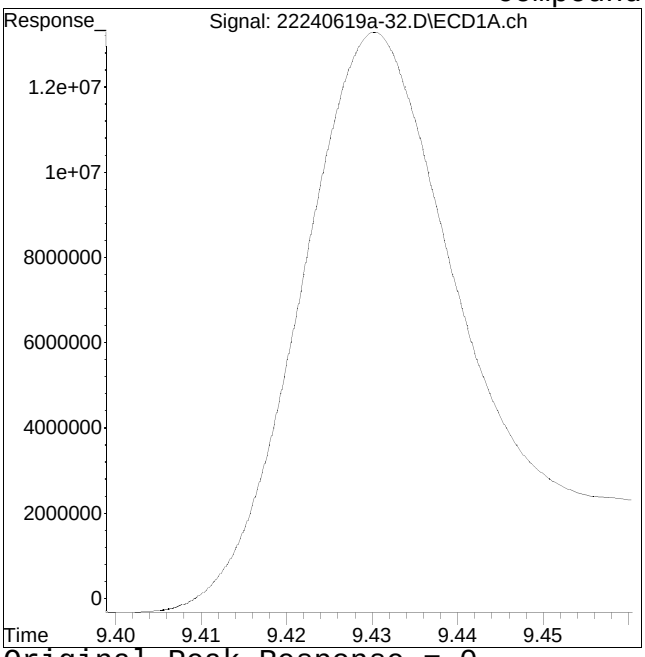


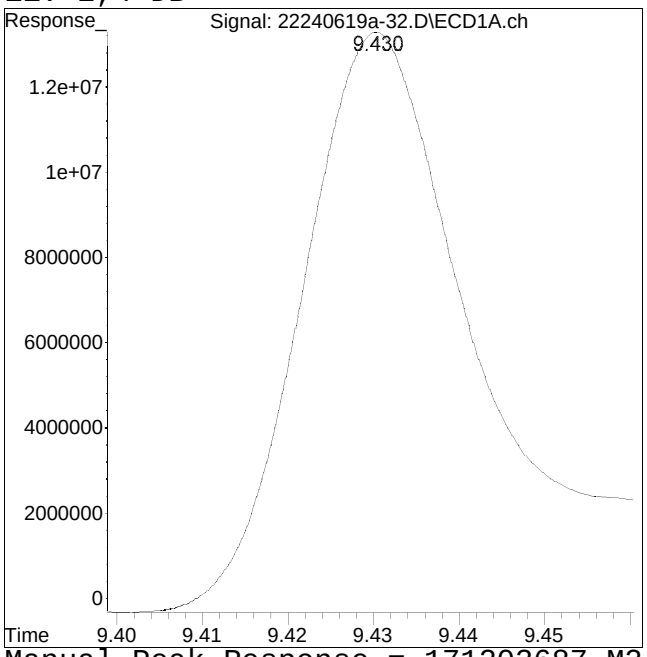
Original Peak Response = 1214743445 Manual Peak Response = 1179978029 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #11: 2,4-DB



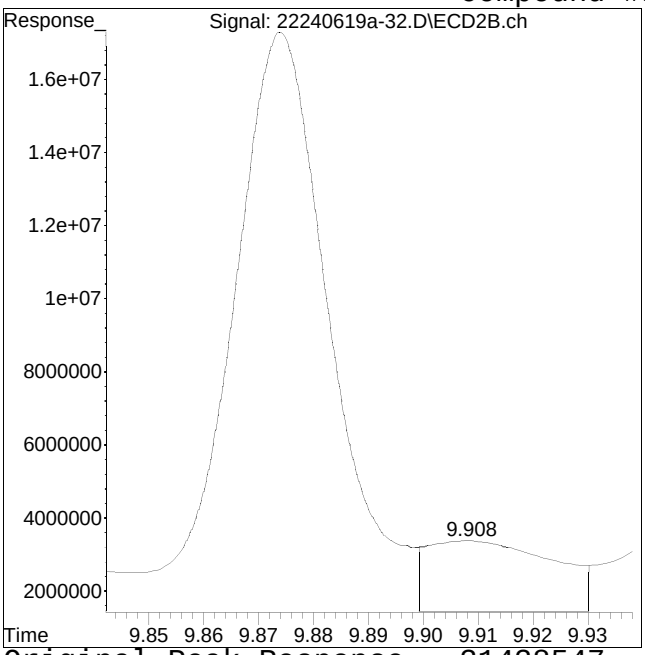


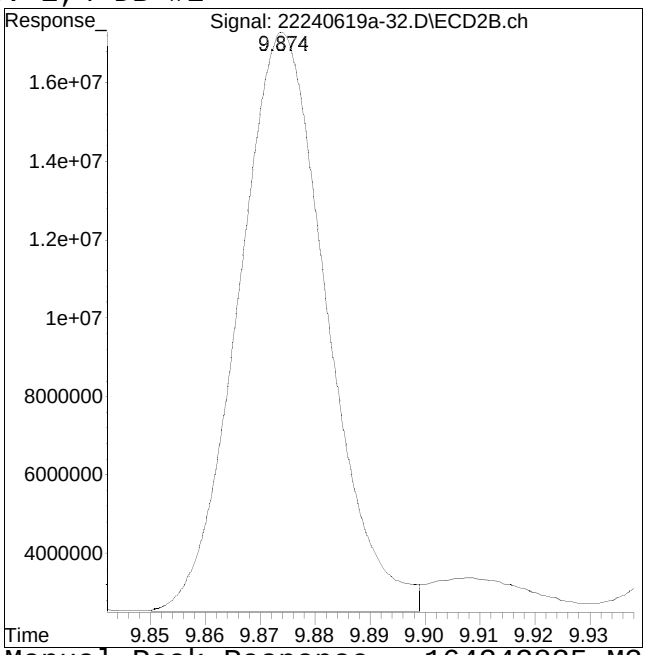
Original Peak Response = 0 Manual Peak Response = 171203687 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #24: 2,4-DB #2



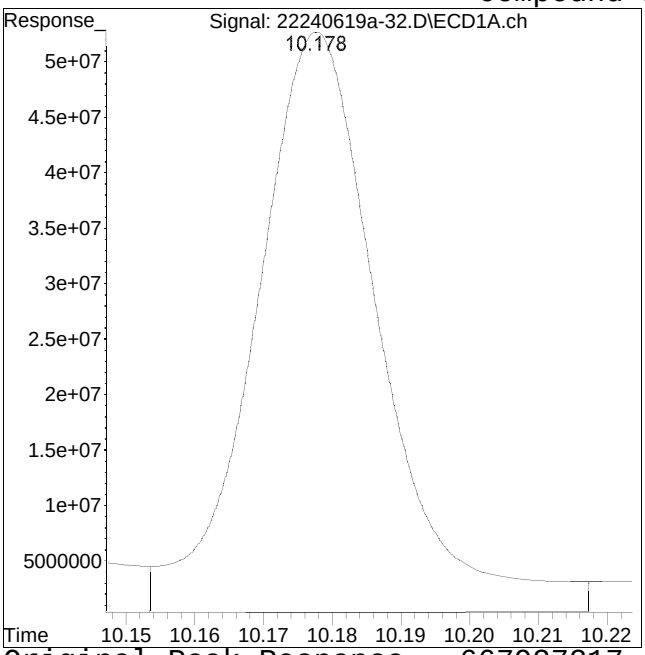


Original Peak Response = 31438547 Manual Peak Response = 164342835 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

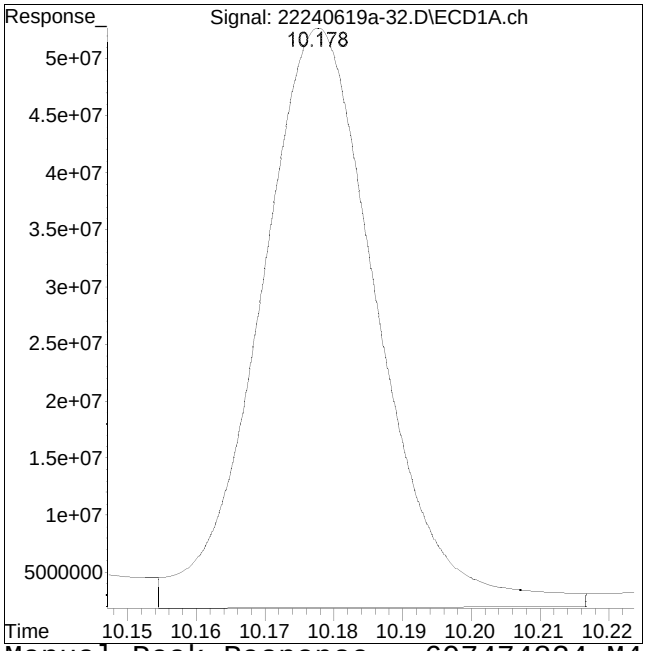
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #12: Dinoseb



Original Peak Response = 667927217



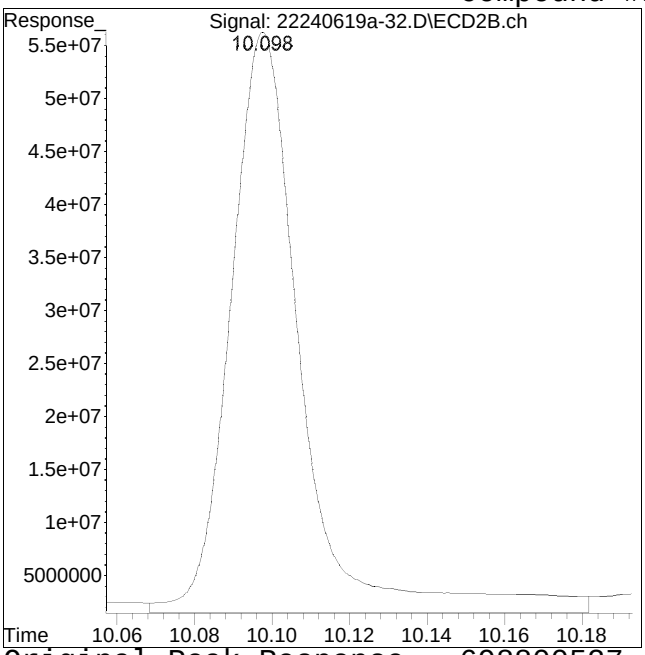
Manual Peak Response = 607474824 M4

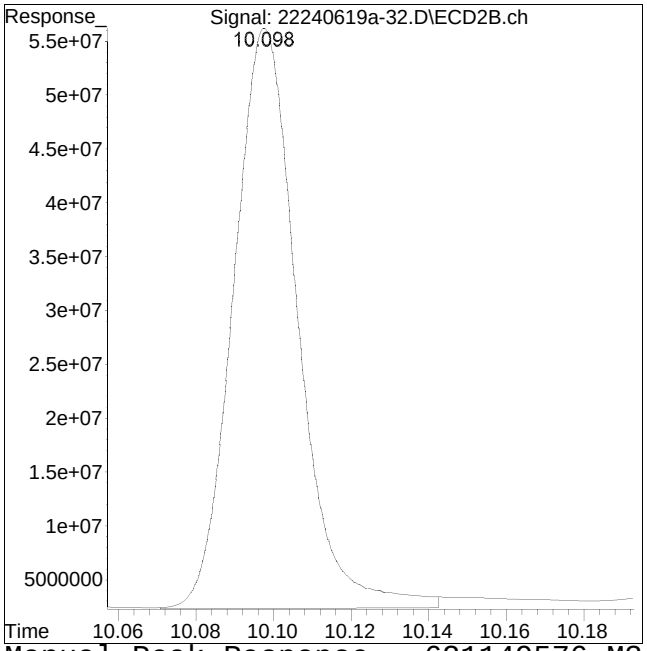
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240619QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240619a-32.D Operator : pest22:ejl
Date Inj'd : 6/19/2024 5:27 pm Instrument : Pest22
Sample : WG1935934-5,42,, msd Quant Date : 6/19/2024 6:02 pm

Compound #25: Dinoseb #2





Original Peak Response = 698800527 Manual Peak Response = 621149576 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: Pest
Inst: Pest_22
Date: **04/12/24**
Run: **ical**

Method: 8151
GC: HERB

Seq: wg1907956
IS: pp11408

Vial	Data File	Sample	CCAL	notes	initials
1	22240412i-01	blank,42e,,pp11408			
2	22240412i-02	il1herb,42e,,pp11464 L0.005/5			PEG/EJL 4/12
3	22240412i-03	il2herb,42e,,pp11463 L0.1/10			PEG/EJL 4/12
4	22240412i-04	il3herb,42e,,pp11462 L0.2/20			PEG/EJL 4/12
5	22240412i-05	il4herb,42e,,pp11461 L0.5/50			PEG/EJL 4/12
6	22240412i-06	il5herb,42e,,pp11460 L1/100			PEG/EJL 4/12
7	22240412i-07	il6herb,42e,,pp11459 L2/200			PEG/EJL 4/12
8	22240412i-08	cicv,42e,,pp11458 L0.2/20ICV			PEG/EJL 4/12

Dep.: PEST
Inst: Pest_22
Date: **06/19/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1936304
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
1	22240619a-01	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 6:22			PEG 6/19
2	22240619a-02	WG1935411-1	1,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
3	22240619a-03	WG1935411-2	2,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
4	22240619a-04	WG1935411-3	3,42,, t rr	t 15-JUN-24 23:45		PEG 6/19
5	22240619a-05	L2433097-01	42,, t rr	t 15-JUN-24 23:45		PEG 6/19
6	22240619a-06	L2433097-07	42,, t rr	t 15-JUN-24 23:45		PEG 6/19
7	22240619a-07	WG1934887-1	1,42,,			PEG 6/19
8	22240619a-08	WG1934887-2	2,42,,			PEG 6/19
9	22240619a-09	WG1934887-3	3,42,,			PEG 6/19
10	22240619a-10	L2432967-01	42,,	602		PEG 6/19
11	22240619a-11	L2432967-02	42,,	602		PEG 6/19
12	22240619a-12	L2432967-03	42,,	602		PEG 6/19
13	22240619a-13	L2432967-04	42,,	602		PEG 6/19
14	22240619a-14	L2432967-05	42,,	602		PEG 6/19
15	22240619a-15	L2432967-06	42,,	602		PEG 6/19
16	22240619a-16	L2432967-07	42,,	602		EJL 6/19
17	22240619a-17	L2432967-08	42,,	602		EJL 6/19
18	22240619a-18	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 24d high, 13:(			EJL 6/19
19	22240619a-19	L2432967-09	42,,	602		EJL 6/19
20	22240619a-20	L2432967-10	42,,	602		EJL 6/19
21	22240619a-21	WG1935965-1	1,42,, 934			EJL 6/19
22	22240619a-22	WG1935965-2	2,42,, 934			EJL 6/19
23	22240619a-23	WG1935965-3	3,42,, 934			EJL 6/19
24	22240619a-24	L2432970-09	42,,			EJL 6/19
25	22240619a-25	L2433074-01	42,,R3B			EJL 6/19
26	22240619a-26	L2433076-01	42,,R3B			EJL 6/19
27	22240619a-27	L2433190-02	42,,R3D			EJL 6/19
28	22240619a-28	L2433035-01	42,,			EJL 6/19
29	22240619a-29	L2433035-02	42,,			EJL 6/19
30	22240619a-30	L2433035-03	42,, p			EJL 6/19
31	22240619a-31	WG1935934-4	4,42,, ms			EJL 6/19
32	22240619a-32	WG1935934-5	5,42,, msd			EJL 6/19
33	22240619a-33	L2433035-04	42,,			EJL 6/19
34	22240619a-34	herb11561	a/b: dino high (a very high), a: mcpp, mcpa, 245t high, b: mcpp low, 24d high, 18:(			EJL 6/19
35	22240619a-35	L2433035-05	42,,			JAG 6/19
36	22240619a-36	L2433035-06	42,,			JAG 6/19
37	22240619a-37	L2433035-07	42,,			JAG 6/19
38	22240619a-38	L2433035-08	42,,			JAG 6/19
39	22240619a-39	L2433035-09	42,,			JAG 6/19
40	22240619a-40	L2433035-10	42,,			JAG 6/19
41	22240619a-41	L2433375-01	42,,			JAG 6/19
42	22240619a-42	L2433375-02	42,,			JAG 6/19
43	22240619a-43	L2433375-03	42,,			JAG 6/19
44	22240619a-44	L2433375-05	42,,			JAG 6/19

Dep.: PEST
Inst: Pest_22
Date: **06/19/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1936304
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
45	22240619a-45	herb11561	a/b dino high, a: mcpp, mcpa, 245t high b: mcpp low, 24d high 21:29			JAG 6/19
46	22240619a-46	L2433375-06	42,,	double IS rv		
47	22240619a-47	L2433375-07	42,,			PEG 6/20
48	22240619a-48	L2432967-11	42,,			PEG 6/20
49	22240619a-49	L2432967-12	42,,			PEG 6/20
50	22240619a-50	L2432967-13	42,,			PEG 6/20
51	22240619a-51	L2432967-14	42,,			PEG 6/20
52	22240619a-52	L2432967-15	42,,			PEG 6/20
53	22240619a-53	L2433273-01	42,,			PEG 6/20
54	22240619a-54	L2433273-02	42,,			PEG 6/20
55	22240619a-55	L2433273-03	42,,			PEG 6/20
56	22240619a-56	herb11561	a/b dino high, a: mcpp, mcpa, 245t high, b: mcpp low, 00:53 (6/20)			PEG 6/20
57	22240619a-57	L2433273-04	42,,			PEG 6/20
58	22240619a-58	L2433273-05	42,,			PEG 6/20
59	22240619a-59	L2432929-01	42,,			PEG 6/20
60	22240619a-60	L2432970-01	42,,			PEG 6/20
61	22240619a-61	L2432970-02	42,,			PEG 6/20
62	22240619a-62	L2432970-05	42,,			PEG 6/20
63	22240619a-63	L2432970-06	42,,			PEG 6/20
64	22240619a-64	L2433162-01	42,,			PEG 6/20
65	22240619a-65	WG1936151-1	42,, t	t 17-JUN-24 16:57		PEG 6/20
66	22240619a-66	WG1936151-2	42,, t	t 17-JUN-24 16:57		PEG 6/20
67	22240619a-67	WG1936151-3	42,, t	t 17-JUN-24 16:57		PEG 6/20
68	22240619a-68	L2432929-01	42,, t	t 17-JUN-24 16:57		PEG 6/20
69	22240619a-69	L2433280-01	42,, t	t 17-JUN-24 16:57		PEG 6/20
70	22240619a-70	herb11561	a/b dino high, a: mcpp, mcpa, 245t high, b: mcpp low, 5:13 (6/20)			PEG 6/20
71	22240619a-71	WG1936156-1	42,, t	t 15-JUN-24 23:45		PEG 6/20
72	22240619a-72	WG1936156-2	42,, t	t 15-JUN-24 23:45		PEG 6/20
73	22240619a-73	WG1936156-3	42,, t	t 15-JUN-24 23:45		PEG 6/20
74	22240619a-74	L2432762-06	42,, t	t 17-JUN-24 04:21		PEG 6/20
75	22240619a-75	L2433493-02	42,, t	t 17-JUN-24 04:21		PEG 6/20
76	22240619a-76	L2433937-01	42,,,R3C t	t 19-JUN-24 14:36		PEG 6/20

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 20 2024, 11:11 am

Work Group: WG1935934 for Department: 2 Organic Preparation

Created: 18-JUN-24 Due: Operator: gyn

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433035-01	MW-8S	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-02	MW-8D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-03	MW-1SR	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-04	MW-1DR2	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-05	MP-1	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-06	MP-1D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-07	PZ-6	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-08	MW-6D	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-09	EB_06122024	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433035-10	DUP_06122024	S	HERB-8151	WATER	DONE	U	0619	0619	S0	Amber-A1
L2433074-01	WW-001	S	HERB-8151	WATER	DONE	U	0619	0619	3B	Amber-A1
L2433076-01	WW-002	S	HERB-8151	WATER	DONE	U	0619	0619	3B	Amber-A1
L2433190-02	AGW-4	S	HERB-8151	WATER	DONE	U	0619	0619	3D	Amber-A1
L2433375-01	EB_06132024	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-02	DUP_06132024	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-03	PZ-5	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-05	MW-12S	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-06	MW-12D	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
L2433375-07	MW-4S	S	HERB-8151	WATER	DONE	U	0620	0620	S0	Amber-A1
WG1935934-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1935934-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1935934-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				
WG1935934-4	Matrix Spike	S	HERB-8151	WATER	DONE	U				
WG1935934-5	Matrix Spike Duplica	S	HERB-8151	WATER	DONE	U				

Comments:

WG1935934-3	WG1935934-2
WG1935934-4	L2433035-03
WG1935934-5	L2433035-03

ORGANIC ELN REPORT

Workgroup: WG1935934

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 23090460
Surrogate Type: Herbicide **Lot #:** PP11596aq,11/30/2024,1r,25,1
Spike Type: Herbicides **Lot #:** PP11568an,11/06/2024,d4,10,1
Spike Verify by: SKB
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A051624
25% NaOH	Na060824
Acidified Na2SO4	AS061724
DCM	EI560
Diethyl ether	23090460
Na2S2O3	N/A
NaCl	24C2956246

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 23090460

Additional Reagents/Stds

Acidified Na2SO4	as061824
Diazomethane	d061924
Hexane	EI504
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433035-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-03 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-04 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-05 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 20-JUN-24 11:11 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2433035-06 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-07 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-08 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-09 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433035-10 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433074-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433076-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433190-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-01 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 20-JUN-24 11:11 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2433375-02 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-03 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-05 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-06 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
L2433375-07 SAMP	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-1 BLANK	06/18/24 13:33 **WG1935965**	Sam Boateng	1000	>12,<2	-	.5		06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-2 LCS	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-3 LCSD	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7
WG1935934-4 MS	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 20-JUN-24 11:11 AM

ORGANIC ELN REPORT

Workgroup: WG1935934

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1935934-5 MSD	06/18/24 13:33	Sam Boateng	1000	>12,<2	-	.5	.5	06/18/24 16:10	06/18/24 17:40	06/19/24 11:44	Sophia Osei	0.5	06/19/24 12:50	10	S-EVAP G,N-EVAP #7

Reported: 20-JUN-24 11:11 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2433035-01)	81	82	101	121			0
MW-8D (L2433035-02)	84	87	104	127			0
MW-1SR (L2433035-03)	78	76	101	119			0
MW-1DR2 (L2433035-04)	82	84	107	133			0
MP-1 (L2433035-05)	76	77	104	129			0
MP-1D (L2433035-06)	88	88	109	137			0
PZ-6 (L2433035-07)	84	82	105	126			0
MW-6D (L2433035-08)	80	80	107	142			0
EB_06122024 (L2433035-09)	83	82	103	131			0
DUP_06122024 (L2433035-10)	83	84	109	145			0
WG1935917-1BLANK	88	83	115	135			0
WG1935917-2LCS	89	85	88	133			0
WG1935917-3LCSD	86	86	102	143			0
MW-1SRMS	89	85	114	133			0
MW-1SRMSD	86	84	107	130			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1935917-2	**Analysis Date** : 06/19/24 01:19	**File ID** : P2240618a-23
LCSD Sample ID	: WG1935917-3	**Analysis Date** : 06/19/24 01:28	**File ID** : P2240618a-24

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.66	93	1.78	1.55	87	7	40-140	50
Aroclor 1260	1.78	1.63	91	1.78	1.54	86	6	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/19/24 01:37
Matrix Spike	: WG1935917-4	**MS Analysis Date**	: 06/19/24 01:46
Matrix Spike Dup	: WG1935917-5	**MSD Analysis Date**	: 06/19/24 01:54

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aroclor 1016	ND	1.78	1.63	91	1.78	1.61	90	1	40-140	50
Aroclor 1260	ND	1.78	1.63	91	1.78	1.58	88	3	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1935917-1	**Lab File ID**	: P2240618a-22
Matrix	: WATER	**Extraction Date**	: 06/18/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 06/19/24 01:11	**Analysis Date (2)**	: 06/19/24 01:11
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1935917-2LCS	WG1935917-2	06/19/24 01:19	06/19/24 01:19
WG1935917-3LCSD	WG1935917-3	06/19/24 01:28	06/19/24 01:28
MW-1SR	L2433035-03	06/19/24 01:37	06/19/24 01:37
MW-1SRMS	WG1935917-4	06/19/24 01:46	06/19/24 01:46
MW-1SRMSD	WG1935917-5	06/19/24 01:54	06/19/24 01:54
MW-8S	L2433035-01	06/19/24 02:29	06/19/24 02:29
MW-8D	L2433035-02	06/19/24 02:38	06/19/24 02:38
MW-1DR2	L2433035-04	06/19/24 02:46	06/19/24 02:46
MP-1	L2433035-05	06/19/24 02:55	06/19/24 02:55
MP-1D	L2433035-06	06/19/24 03:04	06/19/24 03:04
PZ-6	L2433035-07	06/19/24 03:13	06/19/24 03:13
MW-6D	L2433035-08	06/19/24 03:21	06/19/24 03:21
EB_06122024	L2433035-09	06/19/24 03:30	06/19/24 03:30
DUP_06122024	L2433035-10	06/19/24 03:39	06/19/24 03:39

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 05/06/24 05/07/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1826224-1	05/06/24 20:49
1232/1262 L4 (250ug/L)	R1826224-2	05/06/24 20:59
1248 L4 (250ug/L)	R1826224-3	05/06/24 21:08
1221/1254 L4 (250ug/L)	R1826224-4	05/06/24 21:18
1016/1260 L2 (50ug/L)	R1826224-5	05/06/24 21:36
1016/1260 L3 (100ug/L)	R1826224-6	05/06/24 21:46
1016/1260 L4 (250ug/L)	R1826224-7	05/06/24 21:55
1016/1260 L5 (500ug/L)	R1826224-8	05/06/24 22:04
1016/1260 L6 (1000ug/L)	R1826224-9	05/06/24 22:14
R1826224-10 ICV	R1826224-10	05/06/24 22:23
R1826224-11 ICV	R1826224-11	05/06/24 22:33
R1826224-12 ICV	R1826224-12	05/06/24 22:42
R1826224-13 ICV	R1826224-13	05/06/24 22:52
1016/1260 L1 (10ug/L)	R1826224-14	05/07/24 15:31
R1826224-15 ICV	R1826224-15	05/07/24 15:41
WG1935684-5 CCAL	WG1935684-5	06/18/24 23:56
WG1935917-1 BLANK	WG1935917-1	06/19/24 01:11
WG1935917-2 LCS	WG1935917-2	06/19/24 01:19
WG1935917-3 LCSD	WG1935917-3	06/19/24 01:28
MW-1SR	L2433035-03	06/19/24 01:37
MW-1SR MS	WG1935917-4	06/19/24 01:46
MW-1SR MSD	WG1935917-5	06/19/24 01:54
MW-8S	L2433035-01	06/19/24 02:29
MW-8D	L2433035-02	06/19/24 02:38
MW-1DR2	L2433035-04	06/19/24 02:46
MP-1	L2433035-05	06/19/24 02:55
MP-1D	L2433035-06	06/19/24 03:04
PZ-6	L2433035-07	06/19/24 03:13
MW-6D	L2433035-08	06/19/24 03:21
EB_06122024	L2433035-09	06/19/24 03:30
DUP_06122024	L2433035-10	06/19/24 03:39

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
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PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
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PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:29
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-31	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:38
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-32	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 01:37
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-25	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:46
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-33	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 02:55
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-34	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:04
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-35	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:13
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-36	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:21
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-37	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:30
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-38	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 03:39
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-39	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935917-1	**Date Collected**	: NA
Client ID	: WG1935917-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 01:11
Sample Matrix	: WATER	**Date Extracted**	: 06/18/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240618a-22	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:37
Operator : pest2:mhg
Sample : L2433035-03,42,,p
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:16 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.228	325.8E6	216.4E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	95.27%	
	Standard Area 1 : #2 = 250283431				Recovery =	86.46%	
14) i	2154_1br2nb	1.159	1.228	325.8E6	216.4E6	25.000	25.000
23) i	4268_1br2nb	1.159	1.228	325.8E6	216.4E6	25.000	25.000
34) i	1248_1br2nb	1.159	1.228	325.8E6	216.4E6	25.000	25.000
40) i	3262_1br2nb	1.159	1.228	325.8E6	216.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.601	265.6E6	162.1E6	15.550	15.207
	Spiked Amount 20.000	Range 30 - 150			Recovery =	77.75%	76.04%
3) s	Decachlorobi	4.011	4.522	222.6E6	119.5E6	20.166	23.810M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	100.83%	119.05%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:37
Operator : pest2:mhg
Sample : L2433035-03,42,,p
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:16 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:37
Operator : pest2:mhg
Sample : L2433035-03,42,,p
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:16 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

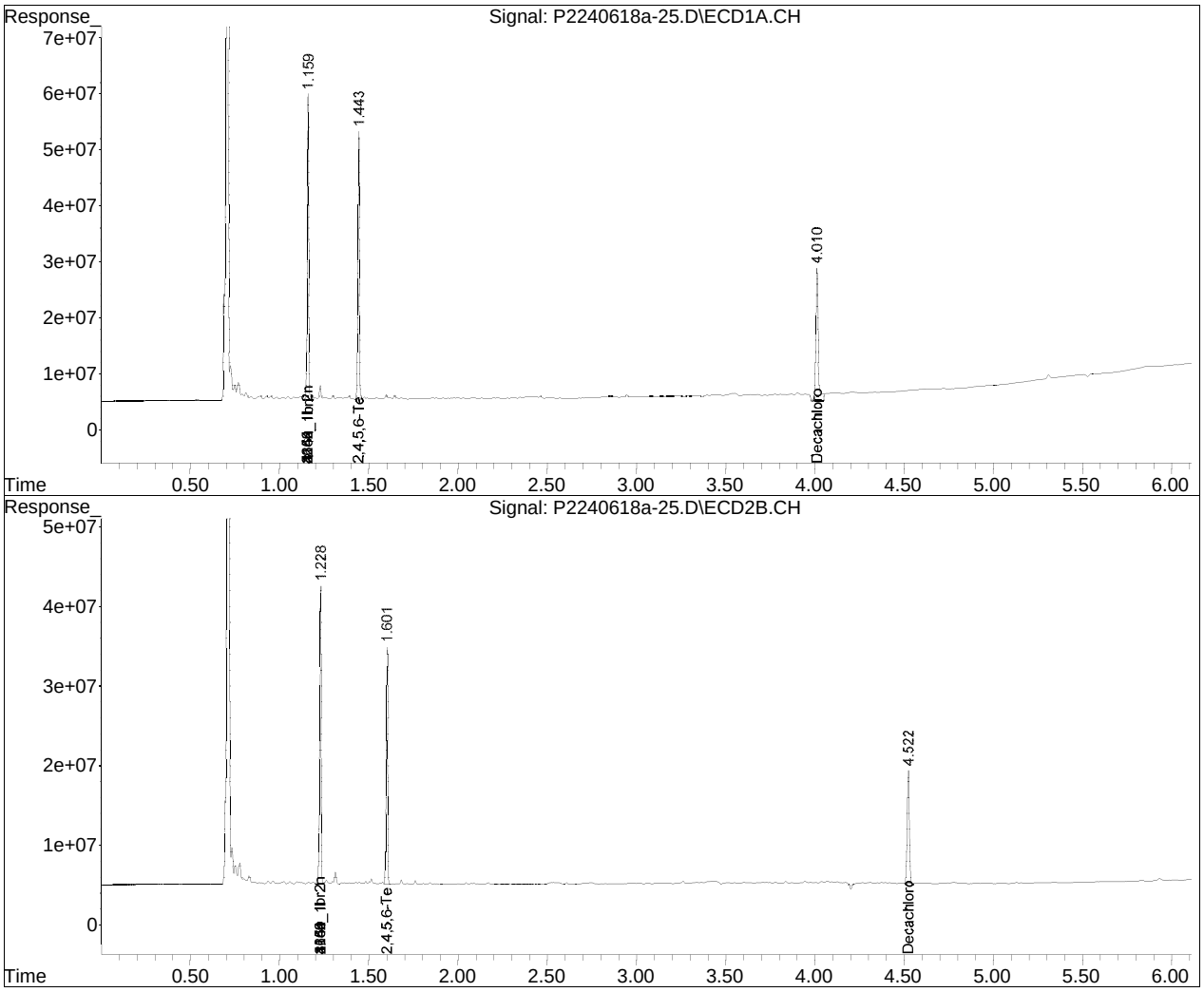
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:37
Operator : pest2:mhg
Sample : L2433035-03,42,,p
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:16 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

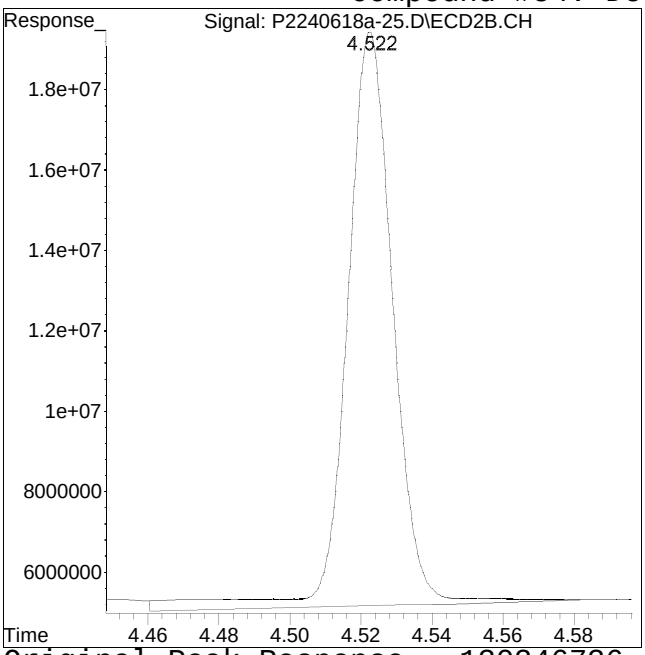
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



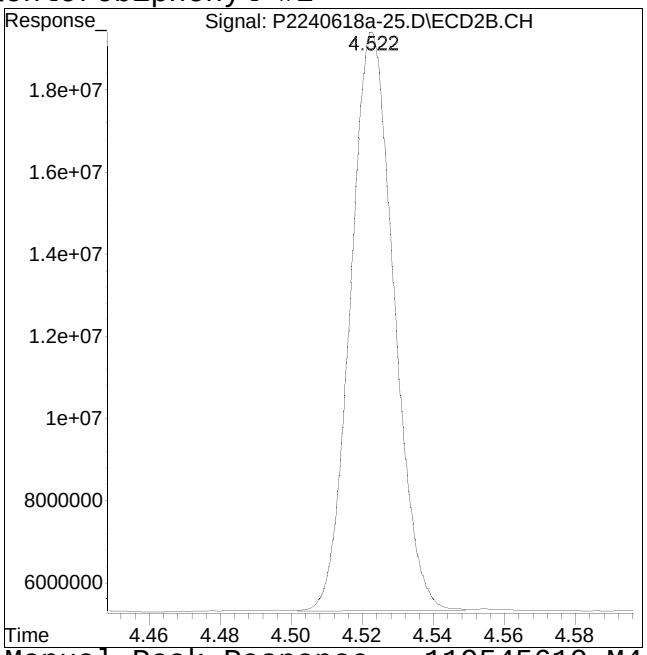
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-25.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:37 Instrument : Pest 2
Sample : L2433035-03,42,,p Quant Date : 6/19/2024 6:05 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 130346736



Manual Peak Response = 119545610 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:29
Operator : pest2:mhg
Sample : L2433035-01,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:40 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	374.1E6	247.0E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	109.38%	
	Standard Area 1 : #2 = 250283431				Recovery =	98.71%	
14) i	2154_1br2nb	1.160	1.229	374.1E6	247.0E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.229	374.1E6	247.0E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.229	374.1E6	247.0E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.229	374.1E6	247.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	316.2E6	199.9E6	16.119	16.428
	Spiked Amount 20.000	Range 30 - 150			Recovery =	80.59%	82.14%
3) s	Decachlorobi	4.012	4.523	256.4E6	138.9E6	20.231	24.230M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	101.16%	121.15%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:29
Operator : pest2:mhg
Sample : L2433035-01,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:40 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:29
Operator : pest2:mhg
Sample : L2433035-01,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:40 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

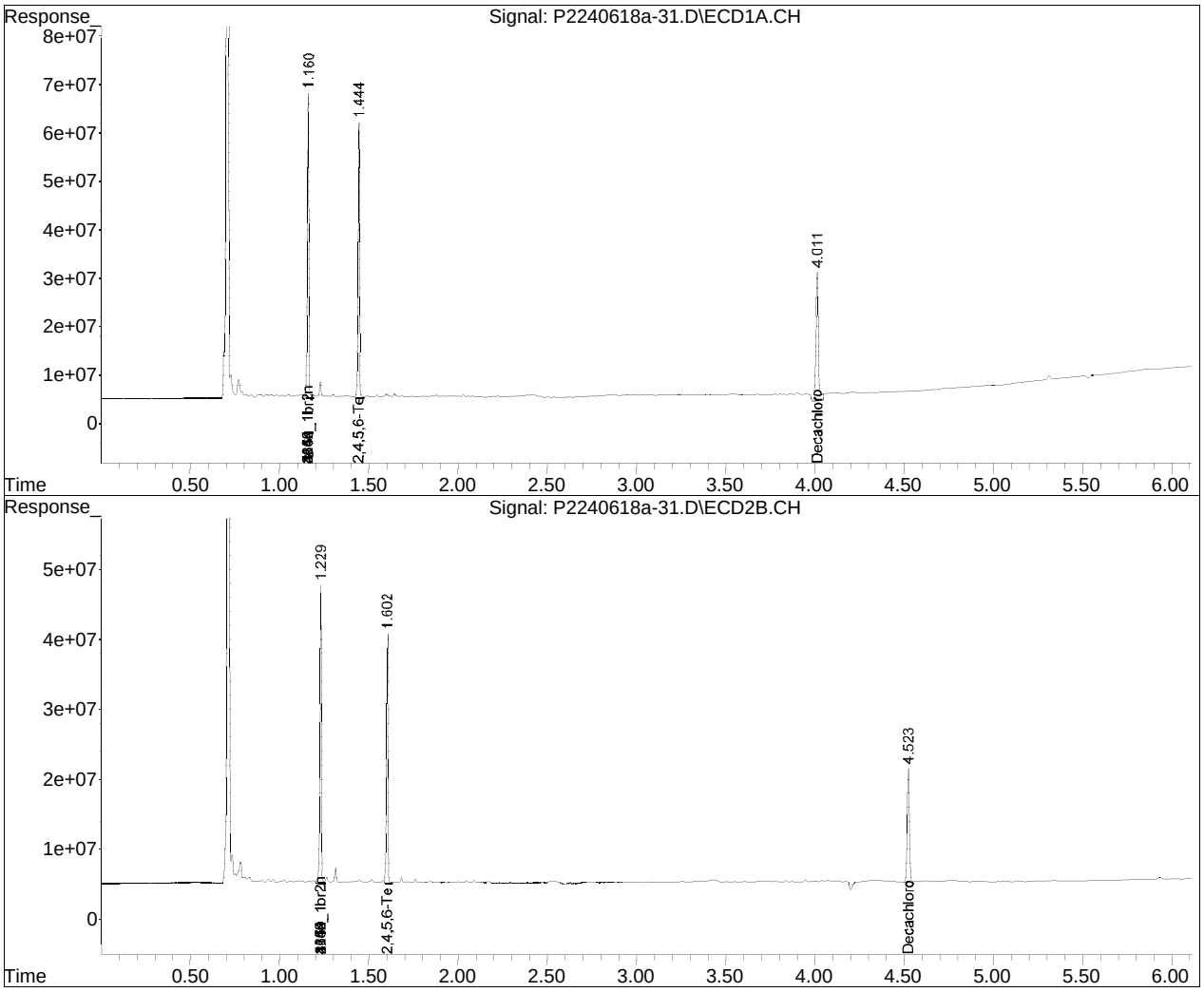
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:29
Operator : pest2:mhg
Sample : L2433035-01,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:40 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

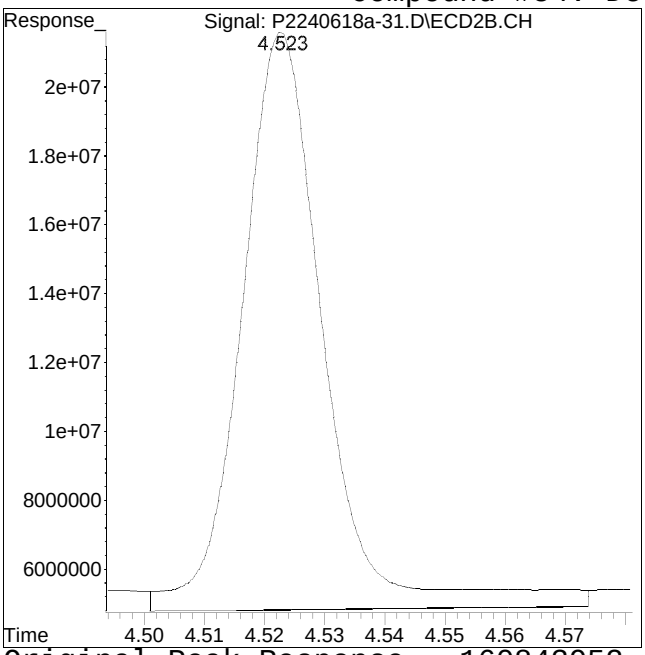
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

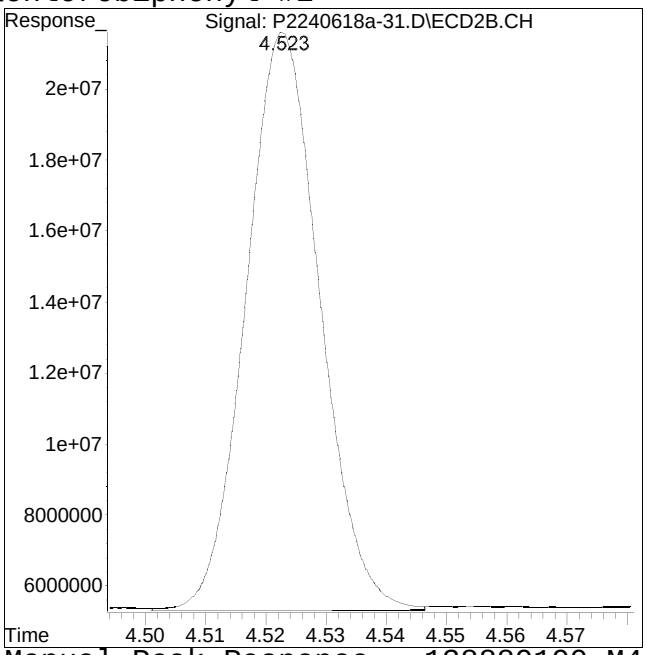


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-31.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 2:29 Instrument : Pest 2
Sample : L2433035-01,42,, Quant Date : 6/19/2024 6:06 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 160843952 Manual Peak Response = 138889190 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:38
Operator : pest2:mhg
Sample : L2433035-02,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:43 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.229	364.2E6	244.1E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	106.50%	
Standard Area 1 : #2 = 250283431				Recovery =	97.54%	
14) i 2154_1br2nb	1.160	1.229	364.2E6	244.1E6	25.000	25.000
23) i 4268_1br2nb	1.160	1.229	364.2E6	244.1E6	25.000	25.000
34) i 1248_1br2nb	1.160	1.229	364.2E6	244.1E6	25.000	25.000
40) i 3262_1br2nb	1.160	1.229	364.2E6	244.1E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	320.4E6	210.0E6	16.776	17.456
Spiked Amount 20.000	Range 30 - 150			Recovery =	83.88%	87.28%
3) s Decachlorobi	4.012	4.524	255.9E6	143.8E6	20.737	25.383M4
Spiked Amount 20.000	Range 30 - 150			Recovery =	103.68%	126.92%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:38
Operator : pest2:mhg
Sample : L2433035-02,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:43 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:38
Operator : pest2:mhg
Sample : L2433035-02,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:43 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

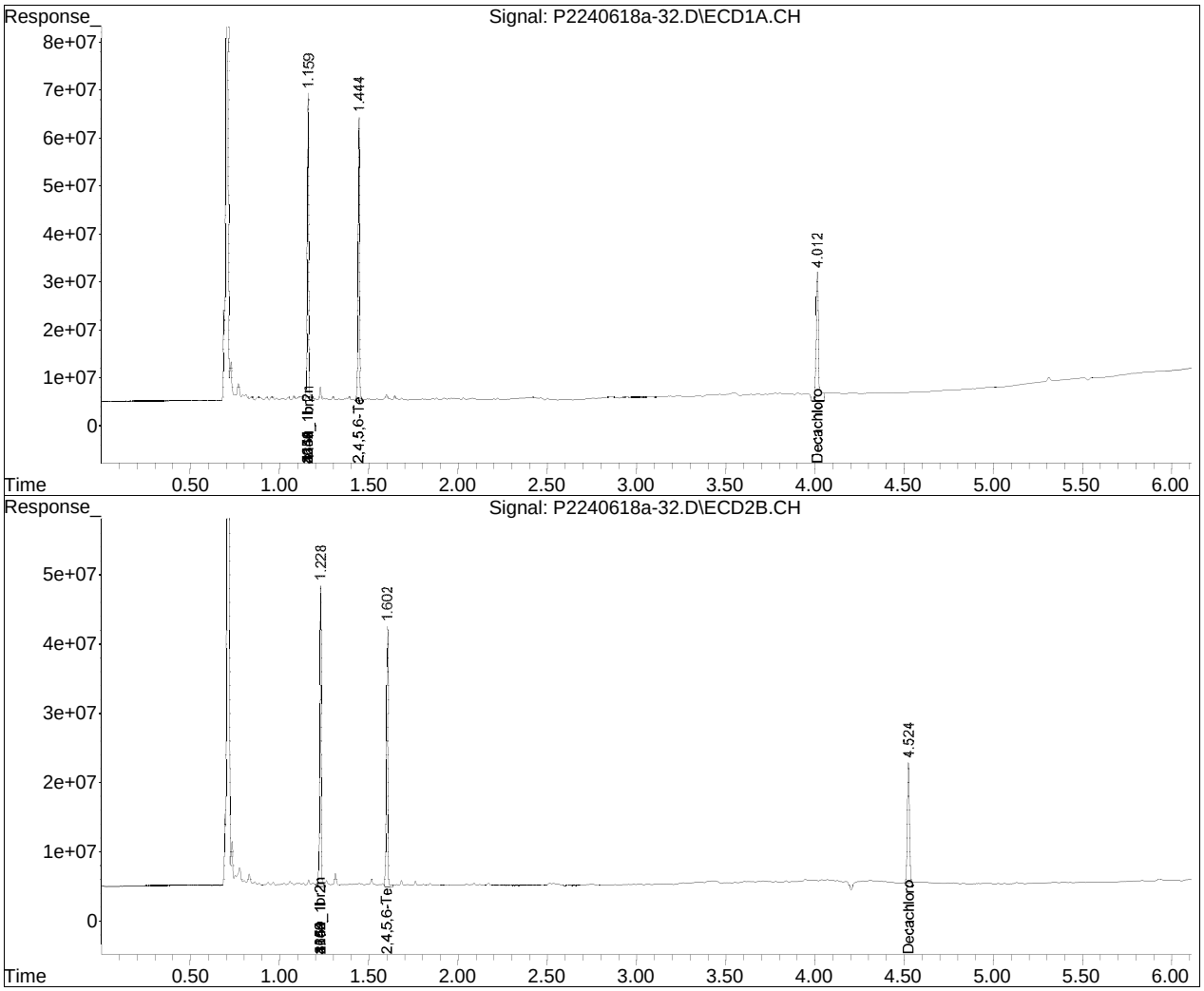
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:38
Operator : pest2:mhg
Sample : L2433035-02,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:43 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

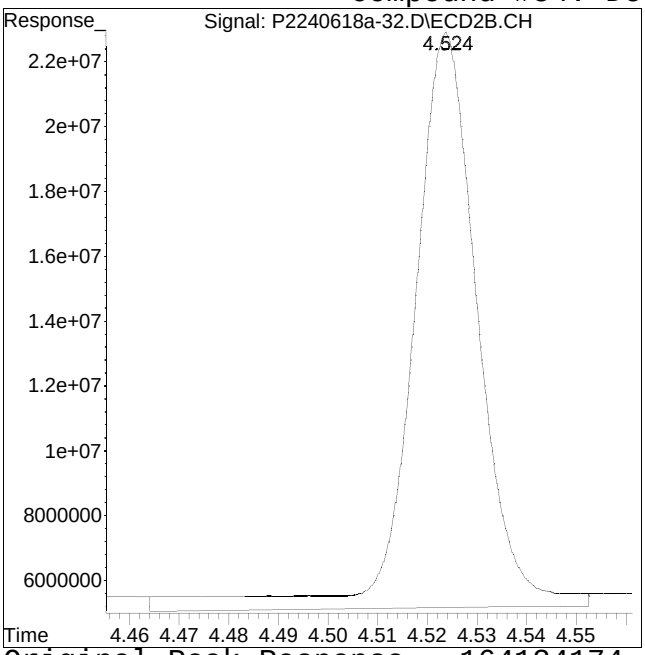
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

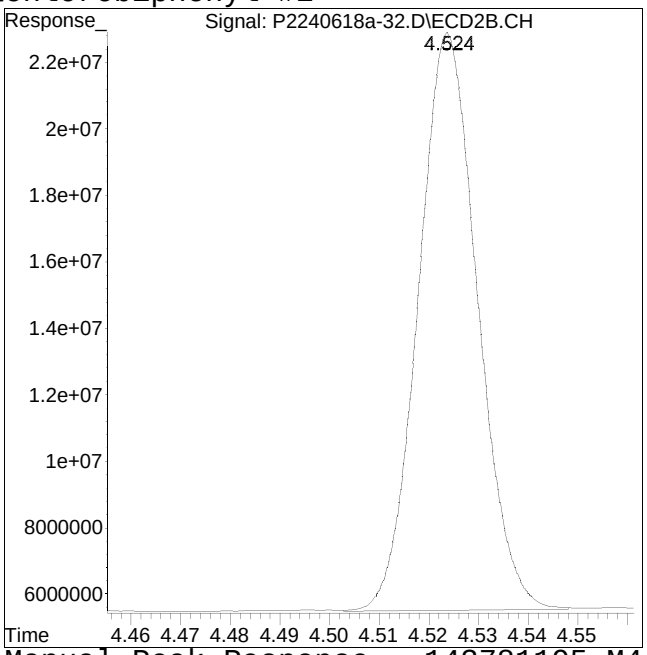


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-32.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 2:38 Instrument : Pest 2
Sample : L2433035-02,42,, Quant Date : 6/19/2024 6:06 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 164124174 Manual Peak Response = 143781195 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-33.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:46
Operator : pest2:mhg
Sample : L2433035-04,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:47 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.230	358.7E6	234.3E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	104.90%	
	Standard Area 1 : #2 = 250283431				Recovery =	93.63%	
14) i	2154_1br2nb	1.160	1.230	358.7E6	234.3E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.230	358.7E6	234.3E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.230	358.7E6	234.3E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.230	358.7E6	234.3E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	308.0E6	193.8E6	16.372	16.785
	Spiked Amount 20.000	Range 30 - 150			Recovery =	81.86%	83.93%
3) s	Decachlorobi	4.012	4.523	259.7E6	144.6E6	21.370	26.594M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	106.85%	132.97%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-33.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:46
Operator : pest2:mhg
Sample : L2433035-04,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:47 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-33.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:46
Operator : pest2:mhg
Sample : L2433035-04,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:47 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

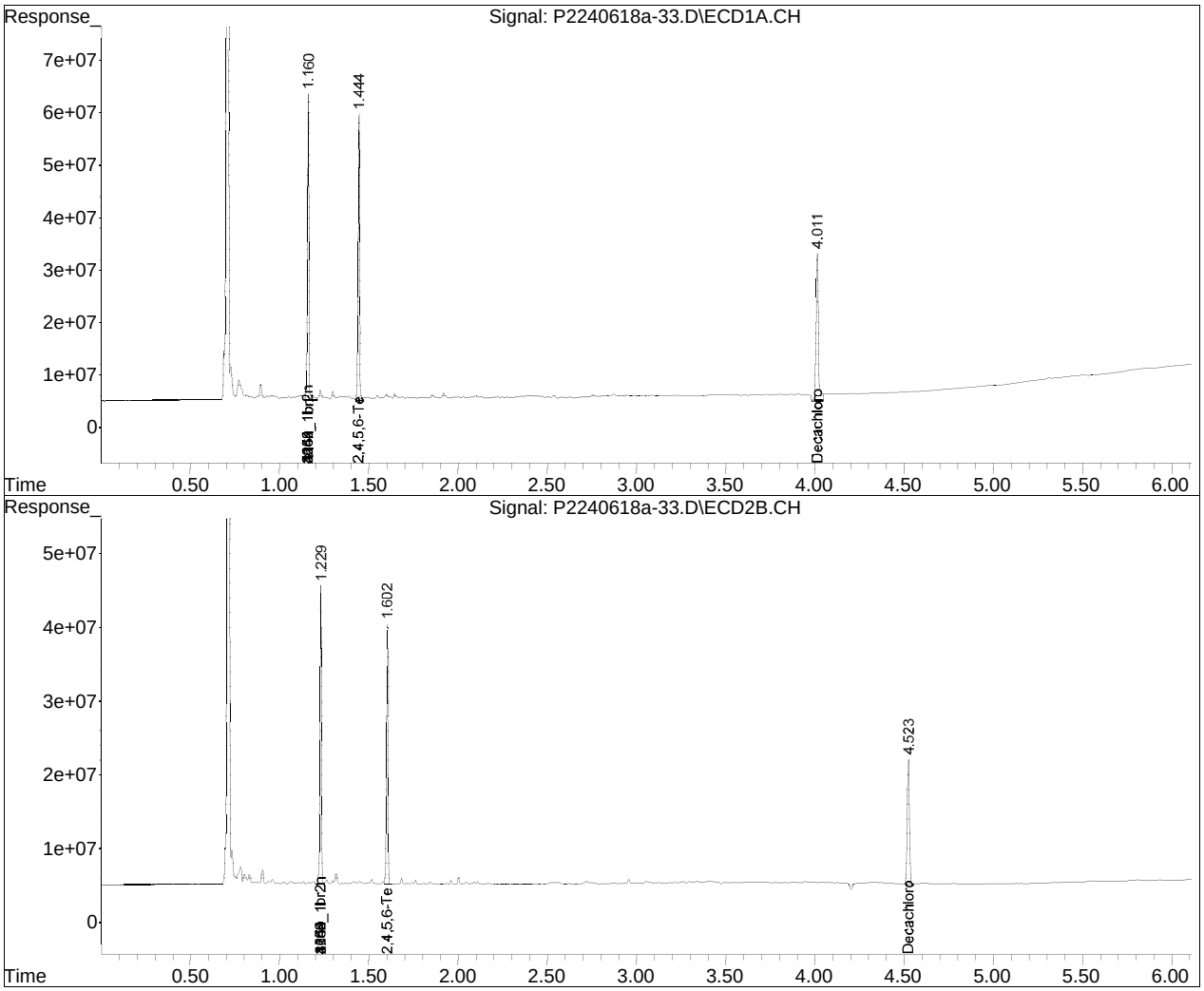
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-33.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:46
Operator : pest2:mhg
Sample : L2433035-04,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:47 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

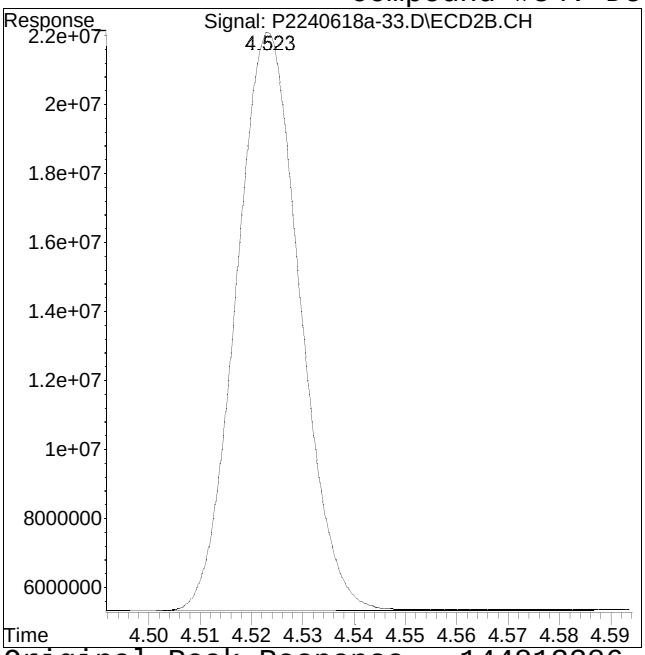
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

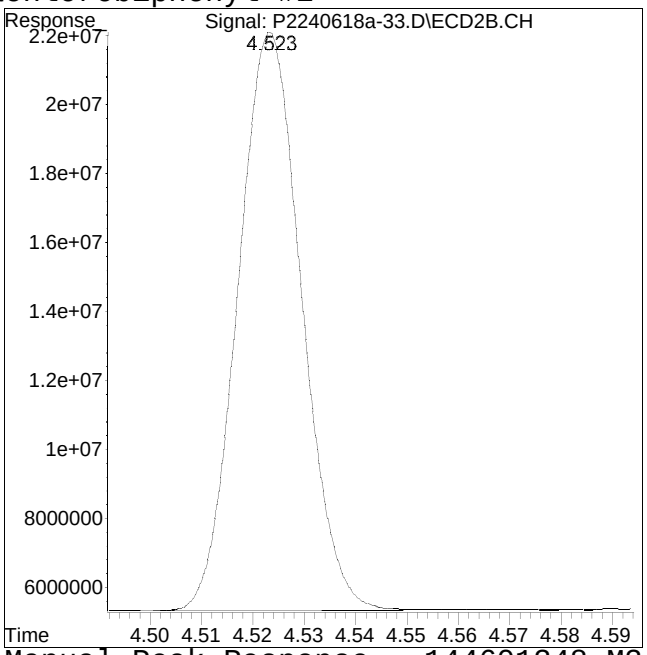


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-33.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 2:46 Instrument : Pest 2
Sample : L2433035-04,42,, Quant Date : 6/19/2024 6:06 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 144813386 Manual Peak Response = 144601348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:55
Operator : pest2:mhg
Sample : L2433035-05,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.230	364.9E6	247.9E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	106.69%	
	Standard Area 1 : #2 = 250283431				Recovery =	99.07%	
14) i	2154_1br2nb	1.161	1.230	364.9E6	247.9E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	364.9E6	247.9E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	364.9E6	247.9E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	364.9E6	247.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.603	289.3E6	188.0E6	15.124	15.387
	Spiked Amount 20.000	Range 30 - 150			Recovery =	75.62%	76.94%
3) s	Decachlorobi	4.012	4.523	257.4E6	148.3E6	20.822	25.780M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	104.11%	128.90%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:55
Operator : pest2:mhg
Sample : L2433035-05,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:55
Operator : pest2:mhg
Sample : L2433035-05,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

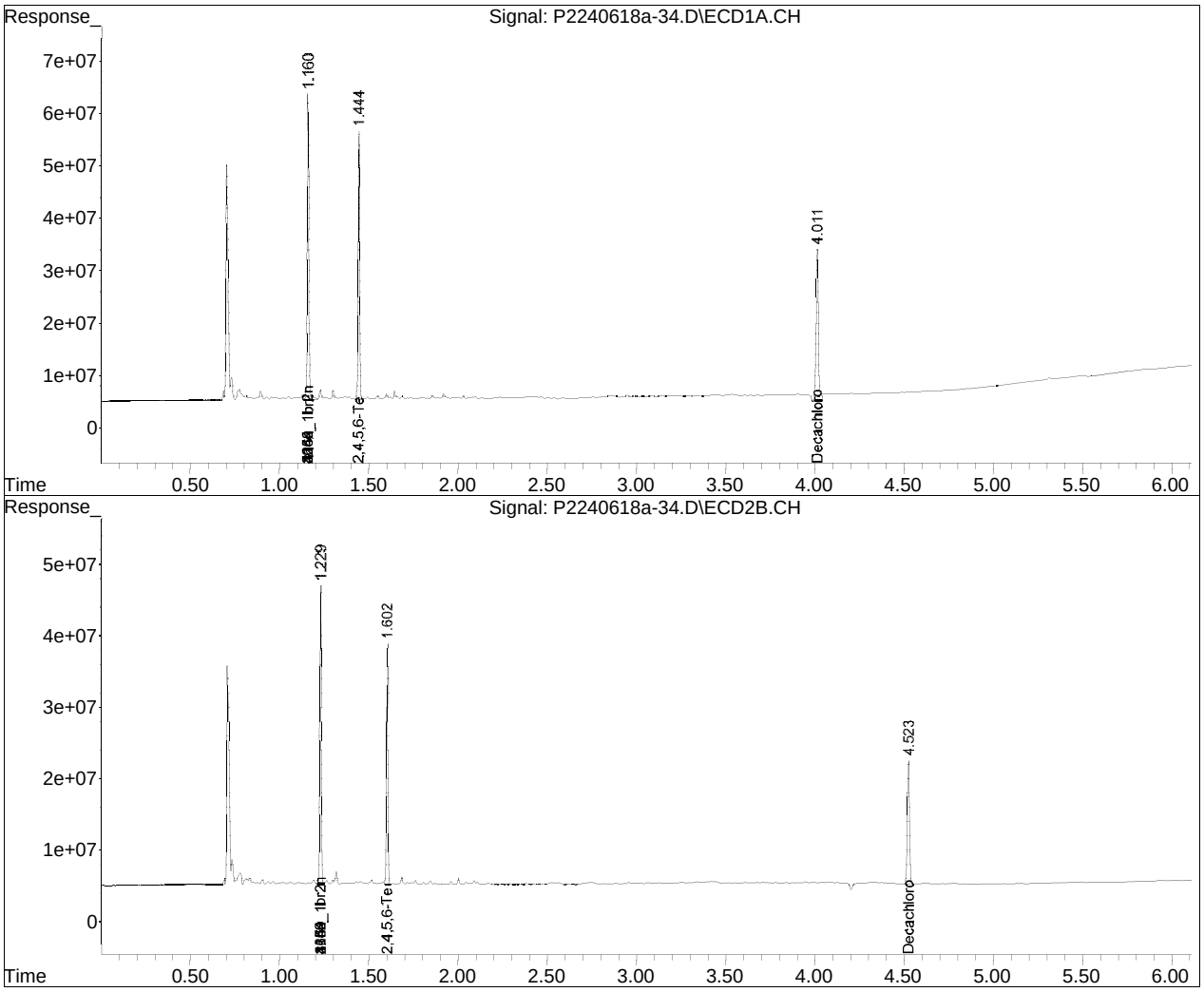
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 2:55
Operator : pest2:mhg
Sample : L2433035-05,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

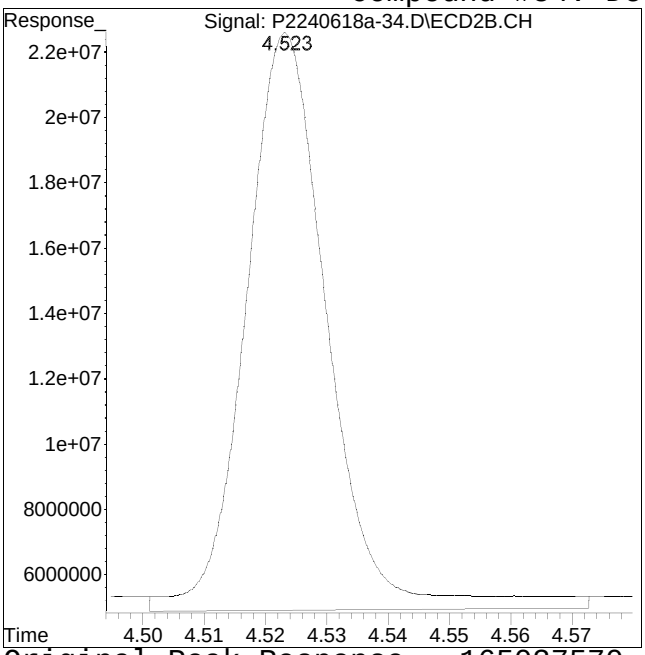
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

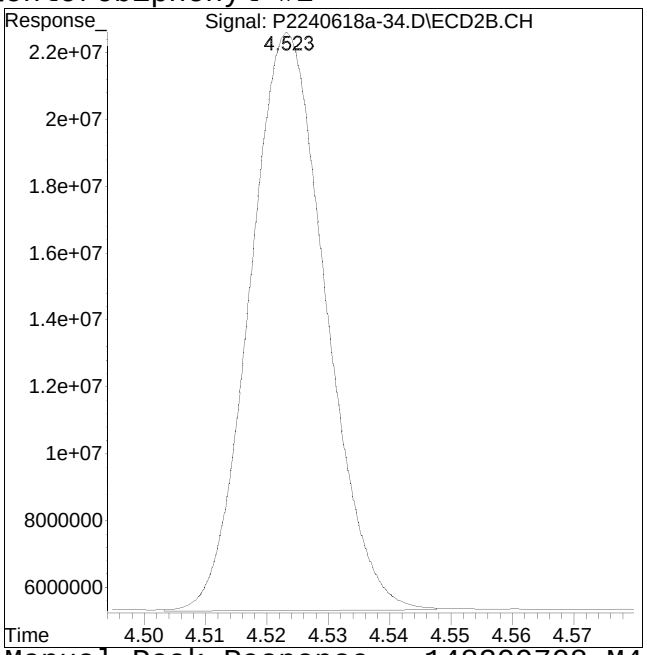


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-34.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 2:55 Instrument : Pest 2
Sample : L2433035-05,42,, Quant Date : 6/19/2024 6:06 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 165037570 Manual Peak Response = 148309708 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:04
Operator : pest2:mhg
Sample : L2433035-06,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:55 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	345.5E6	234.5E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	101.02%	
	Standard Area 1 : #2 = 250283431				Recovery =	93.70%	
14) i	2154_1br2nb	1.160	1.229	345.5E6	234.5E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.229	345.5E6	234.5E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.229	345.5E6	234.5E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.229	345.5E6	234.5E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	318.8E6	203.0E6	17.600	17.568
	Spiked Amount 20.000	Range 30 - 150		Recovery =	88.00%	87.84%	
3) s	Decachlorobi	4.012	4.524	254.3E6	149.2E6	21.726	27.416
	Spiked Amount 20.000	Range 30 - 150		Recovery =	108.63%	137.08%	
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:04
Operator : pest2:mhg
Sample : L2433035-06,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:55 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:04
Operator : pest2:mhg
Sample : L2433035-06,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:55 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

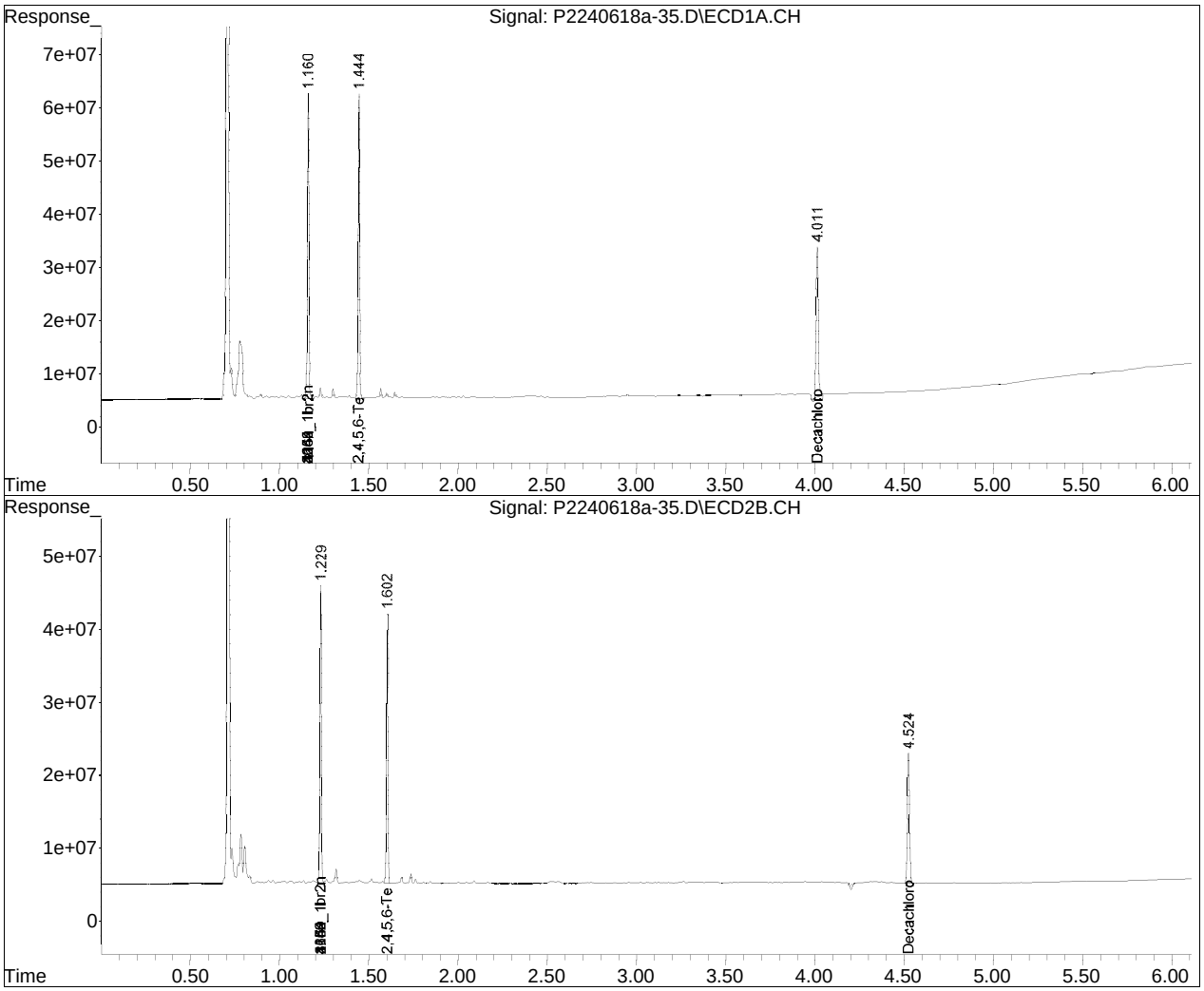
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:04
Operator : pest2:mhg
Sample : L2433035-06,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:55 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-35.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 3:04	Instrument	: Pest 2
Sample	: L2433035-06,42,,	Quant Date	: 6/19/2024 6:06 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:13
Operator : pest2:mhg
Sample : L2433035-07,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:58 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	344.0E6	246.4E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	100.59%	
	Standard Area 1 : #2 = 250283431				Recovery =	98.46%	
14) i	2154_1br2nb	1.160	1.229	344.0E6	246.4E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.229	344.0E6	246.4E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.229	344.0E6	246.4E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.229	344.0E6	246.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	301.8E6	198.8E6	16.733	16.376
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.67%	81.88%
3) s	Decachlorobi	4.011	4.524	244.6E6	144.1E6	20.985	25.199
	Spiked Amount 20.000	Range 30 - 150			Recovery =	104.93%	126.00%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:13
Operator : pest2:mhg
Sample : L2433035-07,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:58 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:13
Operator : pest2:mhg
Sample : L2433035-07,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:58 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

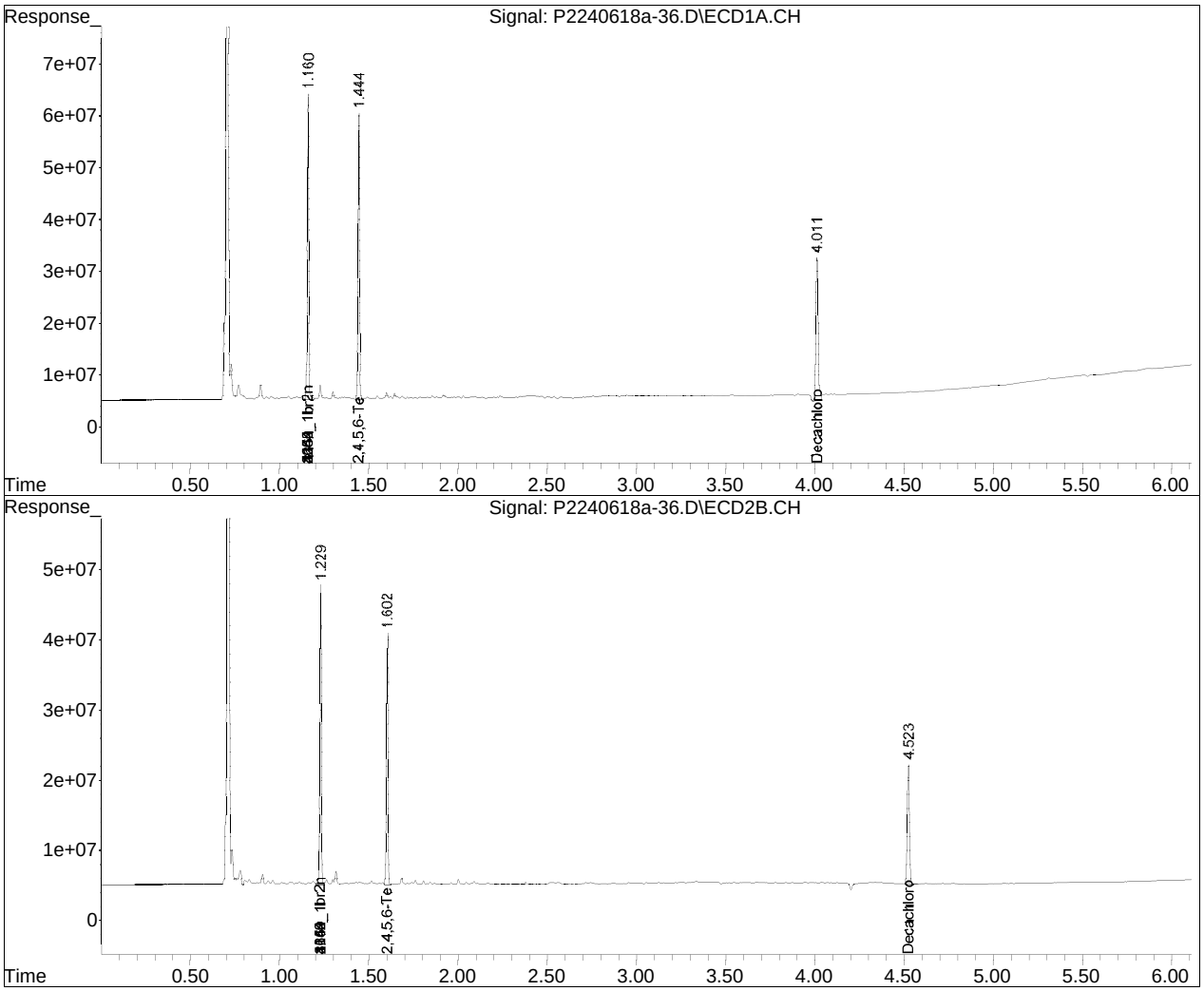
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:13
Operator : pest2:mhg
Sample : L2433035-07,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:06:58 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-36.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 3:13	Instrument	: Pest 2
Sample	: L2433035-07,42,,	Quant Date	: 6/19/2024 6:06 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:21
Operator : pest2:mhg
Sample : L2433035-08,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:01 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.229	343.7E6	230.8E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	100.50%	
Standard Area 1 : #2 = 250283431				Recovery =	92.20%	
14) i 2154_1br2nb	1.161	1.229	343.7E6	230.8E6	25.000	25.000
23) i 4268_1br2nb	1.161	1.229	343.7E6	230.8E6	25.000	25.000
34) i 1248_1br2nb	1.161	1.229	343.7E6	230.8E6	25.000	25.000
40) i 3262_1br2nb	1.161	1.229	343.7E6	230.8E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.445	1.602	288.6E6	182.9E6	16.016	16.089
Spiked Amount 20.000	Range 30 - 150		Recovery =	80.08%	80.44%	
3) s Decachlorobi	4.012	4.524	249.1E6	151.9E6	21.392	28.373
Spiked Amount 20.000	Range 30 - 150		Recovery =	106.96%	141.87%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:21
Operator : pest2:mhg
Sample : L2433035-08,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:01 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:21
Operator : pest2:mhg
Sample : L2433035-08,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:01 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

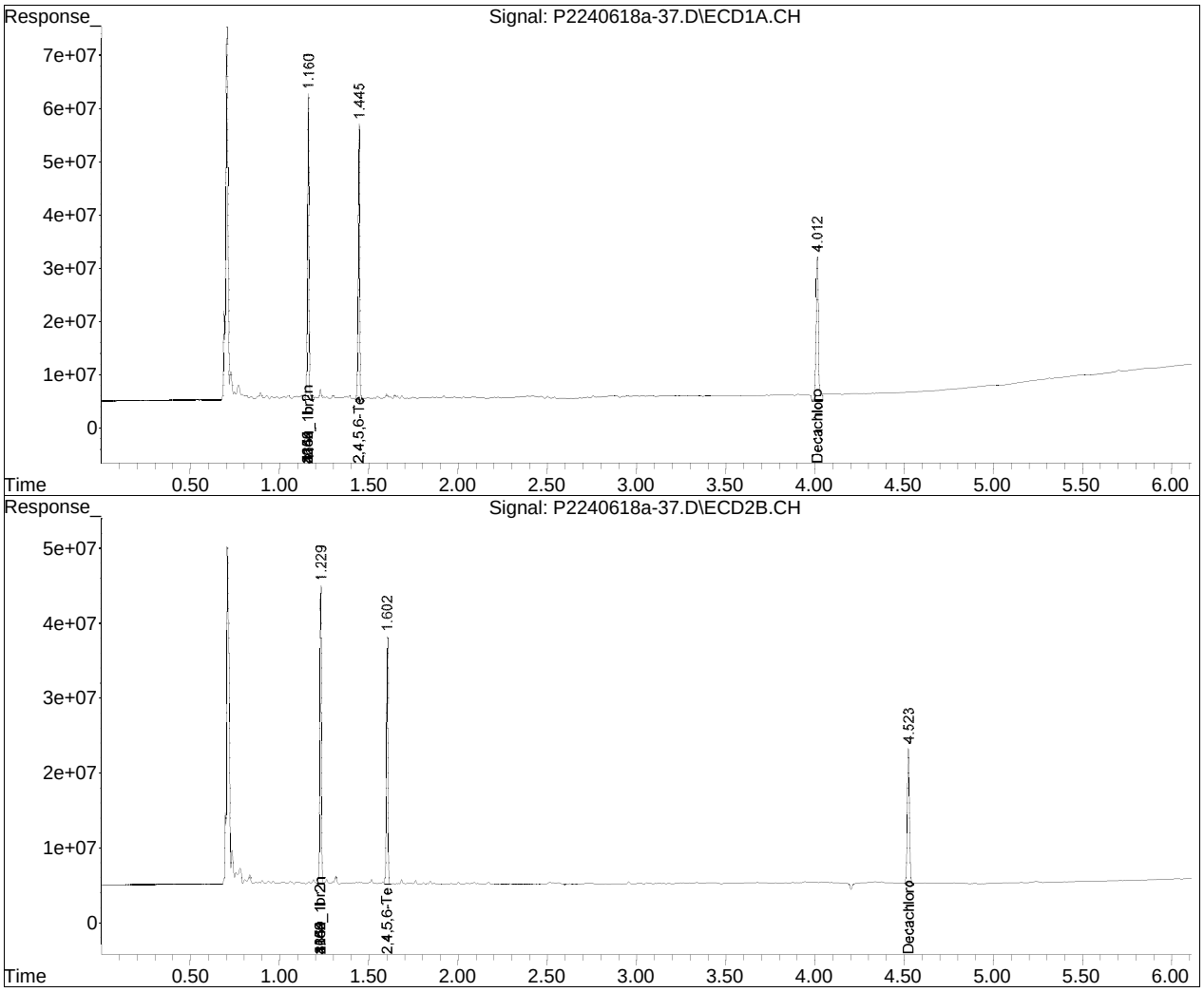
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:21
Operator : pest2:mhg
Sample : L2433035-08,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:01 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-37.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 3:21	Instrument	: Pest 2
Sample	: L2433035-08,42,,	Quant Date	: 6/19/2024 6:07 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:30
Operator : pest2:mhg
Sample : L2433035-09,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:04 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.230	346.5E6	232.4E6	25.000	25.000
	Standard Area 1 : #1 = 341997961				Recovery =	101.33%	
	Standard Area 1 : #2 = 250283431				Recovery =	92.86%	
14) i	2154_1br2nb	1.160	1.230	346.5E6	232.4E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.230	346.5E6	232.4E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.230	346.5E6	232.4E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.230	346.5E6	232.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.603	302.7E6	188.7E6	16.660	16.481
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.30%	82.41%
3) s	Decachlorobi	4.011	4.523	241.6E6	140.9E6	20.579	26.121
	Spiked Amount 20.000	Range 30 - 150			Recovery =	102.90%	130.60%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:30
Operator : pest2:mhg
Sample : L2433035-09,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:04 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:30
Operator : pest2:mhg
Sample : L2433035-09,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:04 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

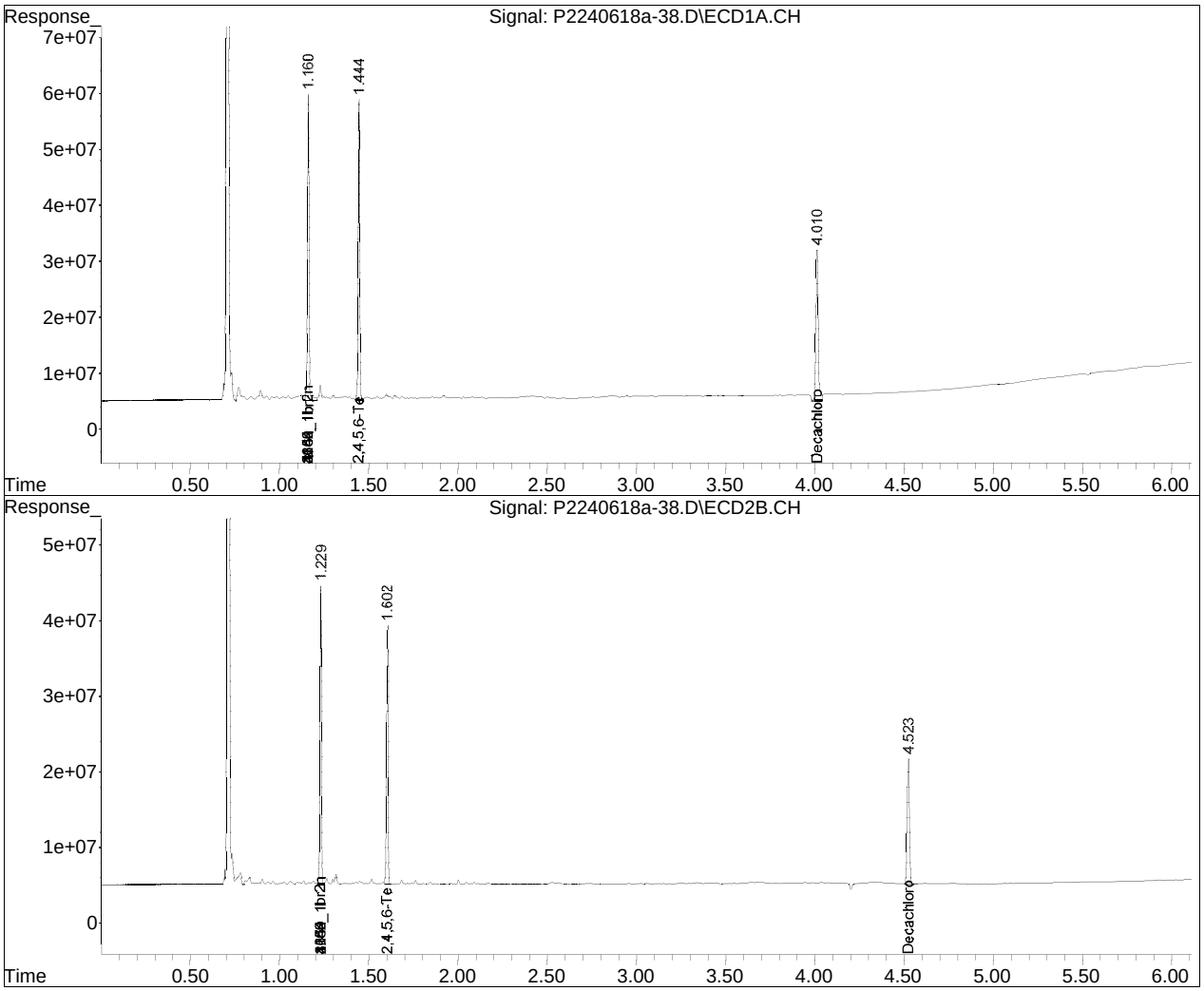
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:30
Operator : pest2:mhg
Sample : L2433035-09,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:04 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-38.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 3:30	Instrument	: Pest 2
Sample	: L2433035-09,42,,	Quant Date	: 6/19/2024 6:07 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:39
Operator : pest2:mhg
Sample : L2433035-10,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.229	348.3E6	229.7E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	101.84%	
Standard Area 1 : #2 = 250283431				Recovery =	91.77%	
14) i 2154_1br2nb	1.160	1.229	348.3E6	229.7E6	25.000	25.000
23) i 4268_1br2nb	1.160	1.229	348.3E6	229.7E6	25.000	25.000
34) i 1248_1br2nb	1.160	1.229	348.3E6	229.7E6	25.000	25.000
40) i 3262_1br2nb	1.160	1.229	348.3E6	229.7E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	301.4E6	190.9E6	16.504	16.867
Spiked Amount 20.000	Range 30 - 150		Recovery =	82.52%	84.34%	
3) s Decachlorobi	4.011	4.523	256.1E6	154.6E6	21.700	29.020
Spiked Amount 20.000	Range 30 - 150		Recovery =	108.50%	145.10%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:39
Operator : pest2:mhg
Sample : L2433035-10,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:39
Operator : pest2:mhg
Sample : L2433035-10,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

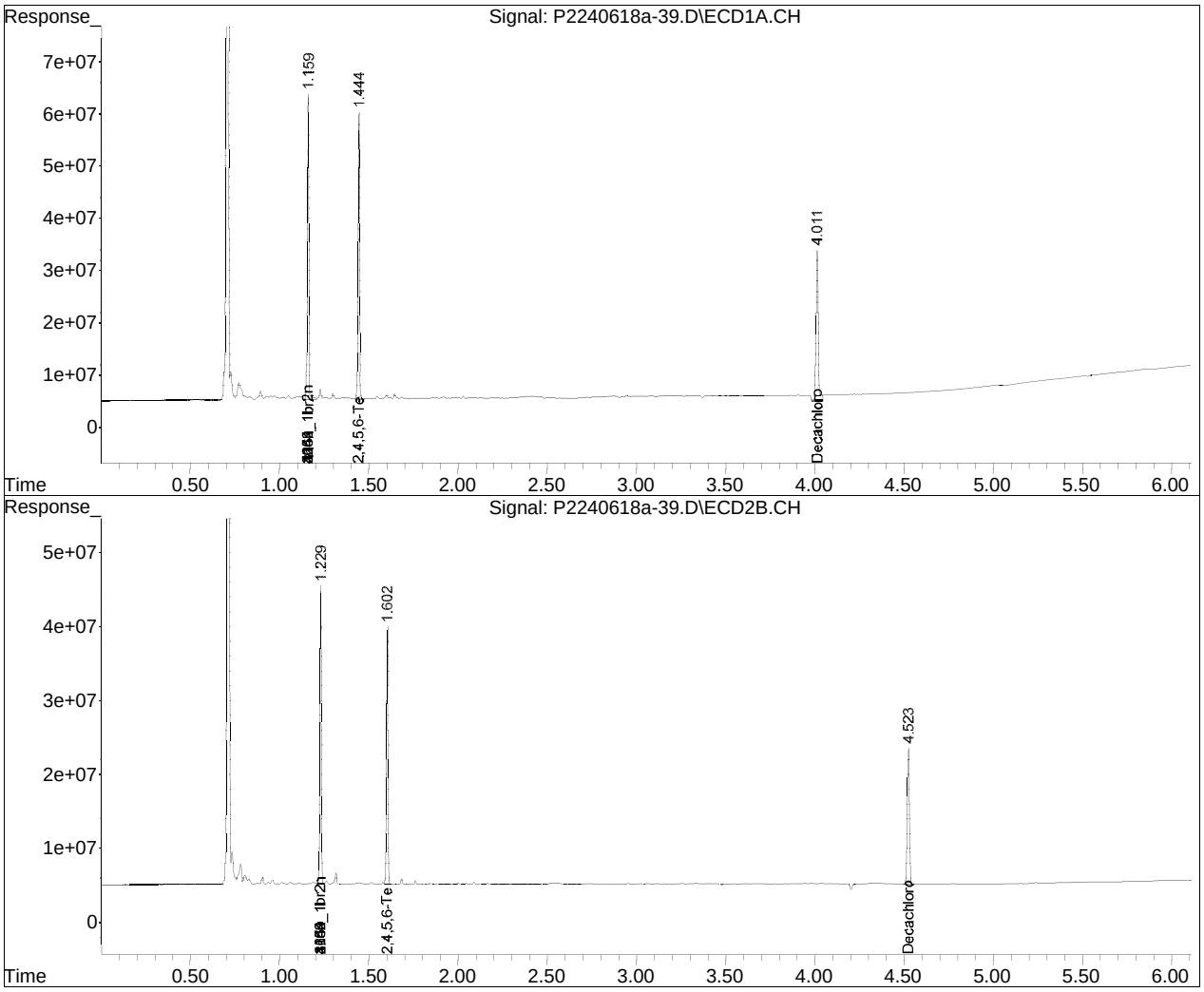
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 3:39
Operator : pest2:mhg
Sample : L2433035-10,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:07:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-39.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 3:39	Instrument	: Pest 2
Sample	: L2433035-10,42,,	Quant Date	: 6/19/2024 6:07 am

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

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40
3)	s	Decachlorobip	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.043			0.043	0.00
38) l7	1248-4				0.048			0.048	0.00
39) l7	1248-5				0.054			0.054	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.025			0.025	0.00
42) l5	1232-2				0.025			0.025	0.00
43) l5	1232-3				0.045			0.045	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.049			0.049	0.00
47) l8	1262-2				0.065			0.065	0.00
48) l8	1262-3				0.059			0.059	0.00
49) l8	1262-4				0.110			0.110	0.00
50) l8	1262-5				0.039			0.039	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip...	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00
37)	l7	1248-3				0.065			0.065	0.00
38)	l7	1248-4				0.058			0.058	0.00
39)	l7	1248-5				0.050			0.050	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.026			0.026	0.00
42)	l5	1232-2				0.024			0.024	0.00
43)	l5	1232-3				0.050			0.050	0.00
44)	l5	1232-4				0.020			0.020	0.00
45)	l5	1232-5				0.015			0.015	0.00
46)	l8	1262-1				0.070			0.070	0.00
47)	l8	1262-2				0.091			0.091	0.00
48)	l8	1262-3				0.079			0.079	0.00
49)	l8	1262-4				0.160			0.160	0.00
50)	l8	1262-5				0.050			0.050	0.00

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00
37)	l7	1248-3				0.043			0.043	0.00
38)	l7	1248-4				0.048			0.048	0.00
39)	l7	1248-5				0.054			0.054	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.025			0.025	0.00
42)	l5	1232-2				0.025			0.025	0.00
43)	l5	1232-3				0.045			0.045	0.00
44)	l5	1232-4				0.018			0.018	0.00
45)	l5	1232-5				0.013			0.013	0.00
46)	l8	1262-1				0.049			0.049	0.00
47)	l8	1262-2				0.065			0.065	0.00
48)	l8	1262-3				0.059			0.059	0.00
49)	l8	1262-4				0.110			0.110	0.00
50)	l8	1262-5				0.039			0.039	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.158	1.226	376.1E6	277.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.584	1.803	70147651	48400578	248.875	249.806
25) l6	1242-2	1.726	1.975	151.2E6	105.3E6	248.875	249.806
26) l6	1242-3	1.915	2.176	325.9E6	201.7E6	248.875	249.806
27) l6	1242-4	1.970	2.236	130.4E6	81145843	248.875	249.806
28) l6	1242-5	2.324	2.622	101.4E6	60532235	248.875	249.806
Sum	1242-1			779.0E6	497.1E6	1244.373	1249.031
Average	1242-1					248.875	249.806
29) l9	1268-1	3.452	3.878	679.3E6	329.4E6	248.875	249.806
30) l9	1268-2	3.473	3.904	626.5E6	304.6E6	248.875	249.806
31) l9	1268-3	3.575	4.046	499.6E6	249.5E6	248.875	249.806
32) l9	1268-4	3.763	4.198	219.2E6	108.5E6	248.875	249.806
33) l9	1268-5	3.917	4.384	1476.1E6	679.6E6	248.875	249.806
Sum	1268-1			3500.7E6	1671.5E6	N.D.	N.D. D
Average	1268-1					248.875	249.806
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

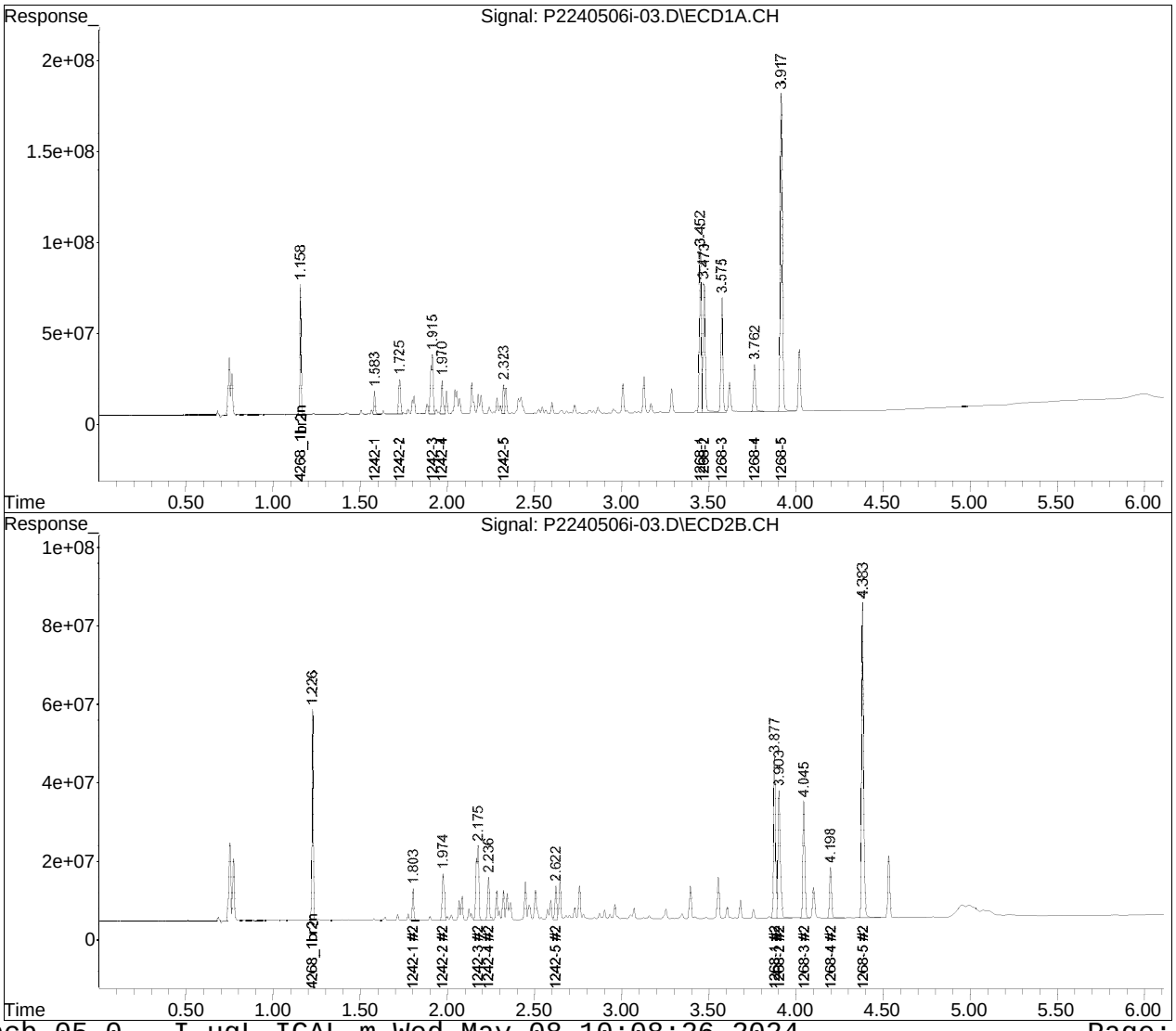
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

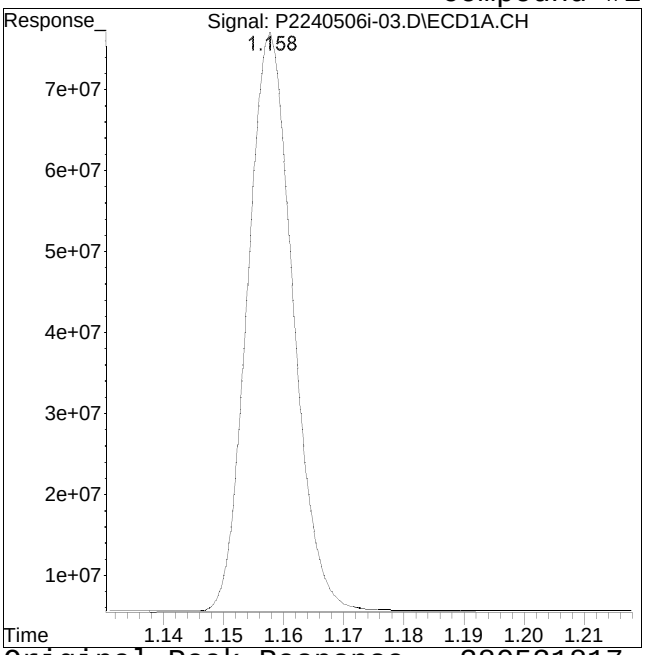
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

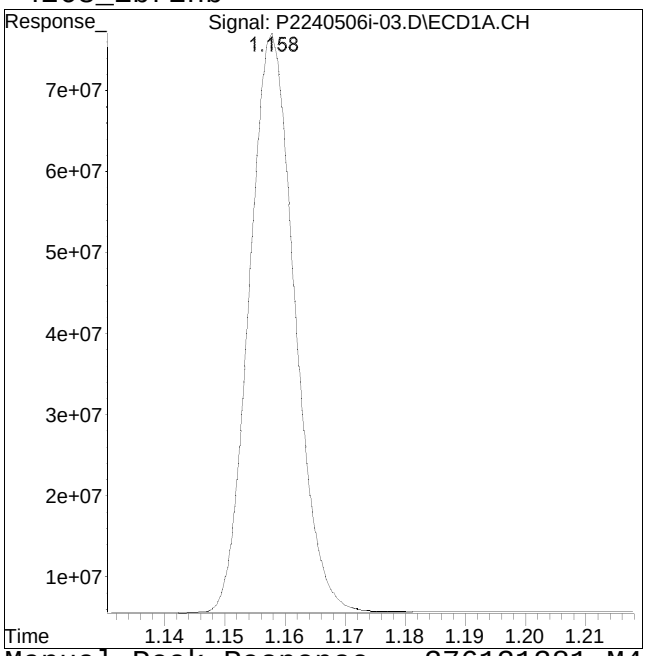


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #23: 4268_1br2nb



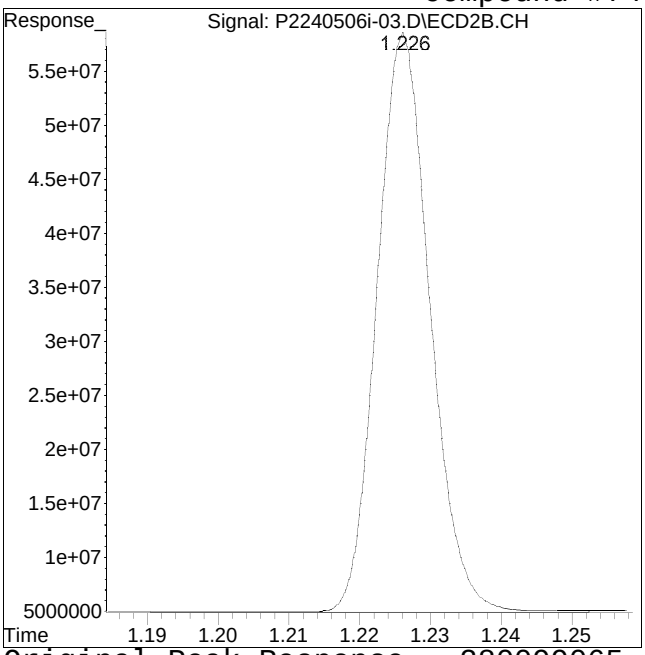


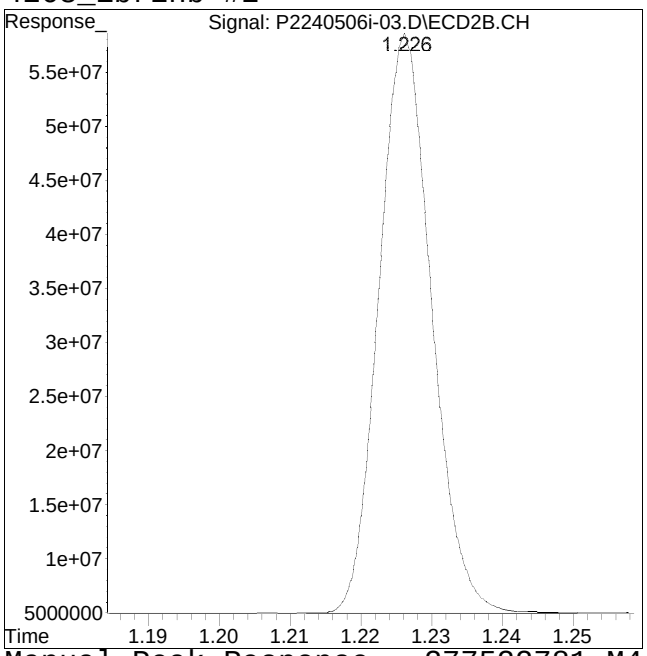
Original Peak Response = 380531817 Manual Peak Response = 376131381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #74: 4268_1br2nb #2





Original Peak Response = 280099065 Manual Peak Response = 277522781 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.159	1.227	378.8E6	271.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.584	1.804	98916572	67532754	250.000	250.000
42) l5	1232-2	1.726	1.975	90910466	67081964	250.000	250.000
43) l5	1232-3	1.915	2.177	190.1E6	121.6E6	250.000	250.000
44) l5	1232-4	1.971	2.237	77287496	49144931	250.000	250.000
45) l5	1232-5	2.324	2.624	56698612	35277580	250.000	250.000
Sum	1232-1			514.0E6	340.6E6	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.816	3.160	266.8E6	132.0E6	250.000	250.000
47) l8	1262-2	3.008	3.394	343.3E6	176.7E6	250.000	250.000
48) l8	1262-3	3.131	3.553	300.5E6	160.2E6	250.000	250.000
49) l8	1262-4	3.287	3.682	606.5E6	298.5E6	249.567M3	250.000
50) l8	1262-5	3.762	4.200	188.6E6	105.4E6	250.000	250.000
Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

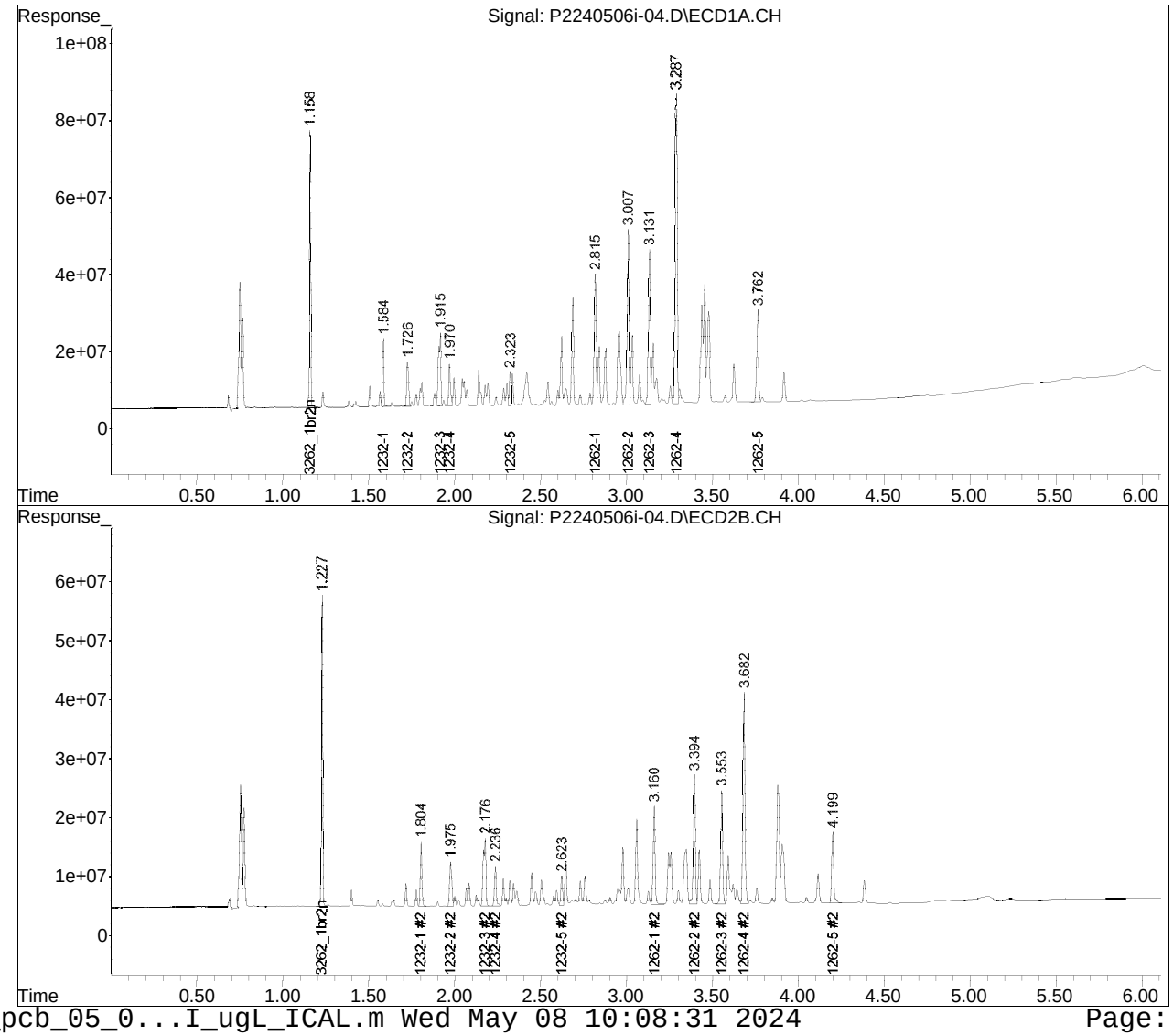
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

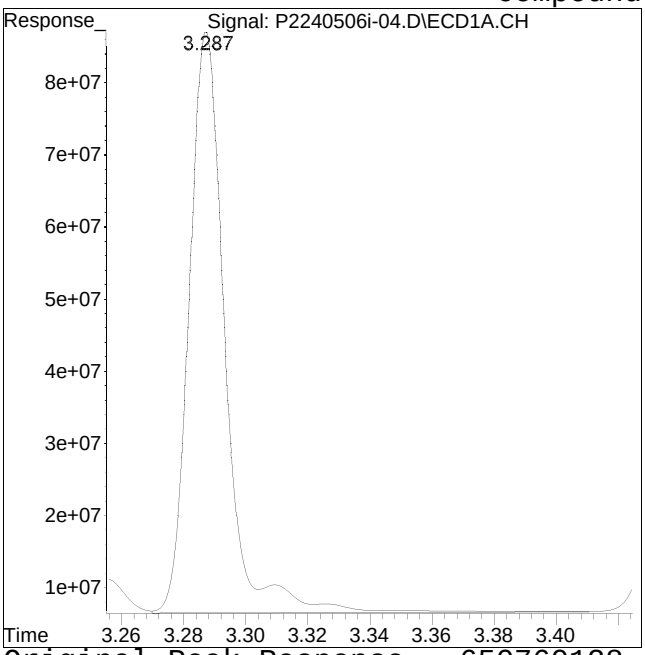
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

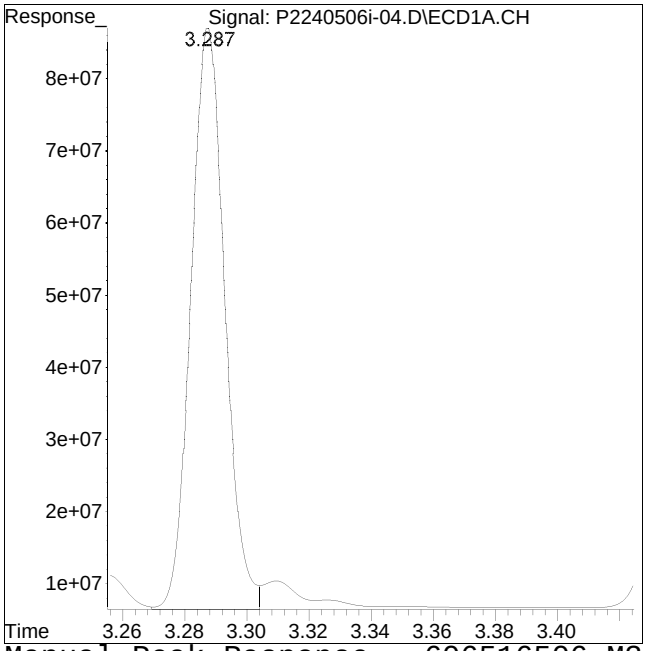


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-04.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:59 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 5/7/2024 3:43 pm

Compound #49: 1262-4





Original Peak Response = 650760128 Manual Peak Response = 606516506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.159	1.228	395.7E6	290.0E6	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.907	2.167	225.8E6	150.7E6	250.000	245.071M1
36) l7	1248-2	2.045	2.322	291.3E6	99774187	248.952M1	250.000
37) l7	1248-3	2.141	2.448	257.5E6	125.4E6	250.000	250.000
38) l7	1248-4	2.324	2.624	229.7E6	138.0E6	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.336	2.647	199.1E6	157.4E6	260.778	250.000
Sum	1248-1			1203.4E6	671.4E6	N.D.	N.D. D
Average	1248-1					251.946	249.014
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

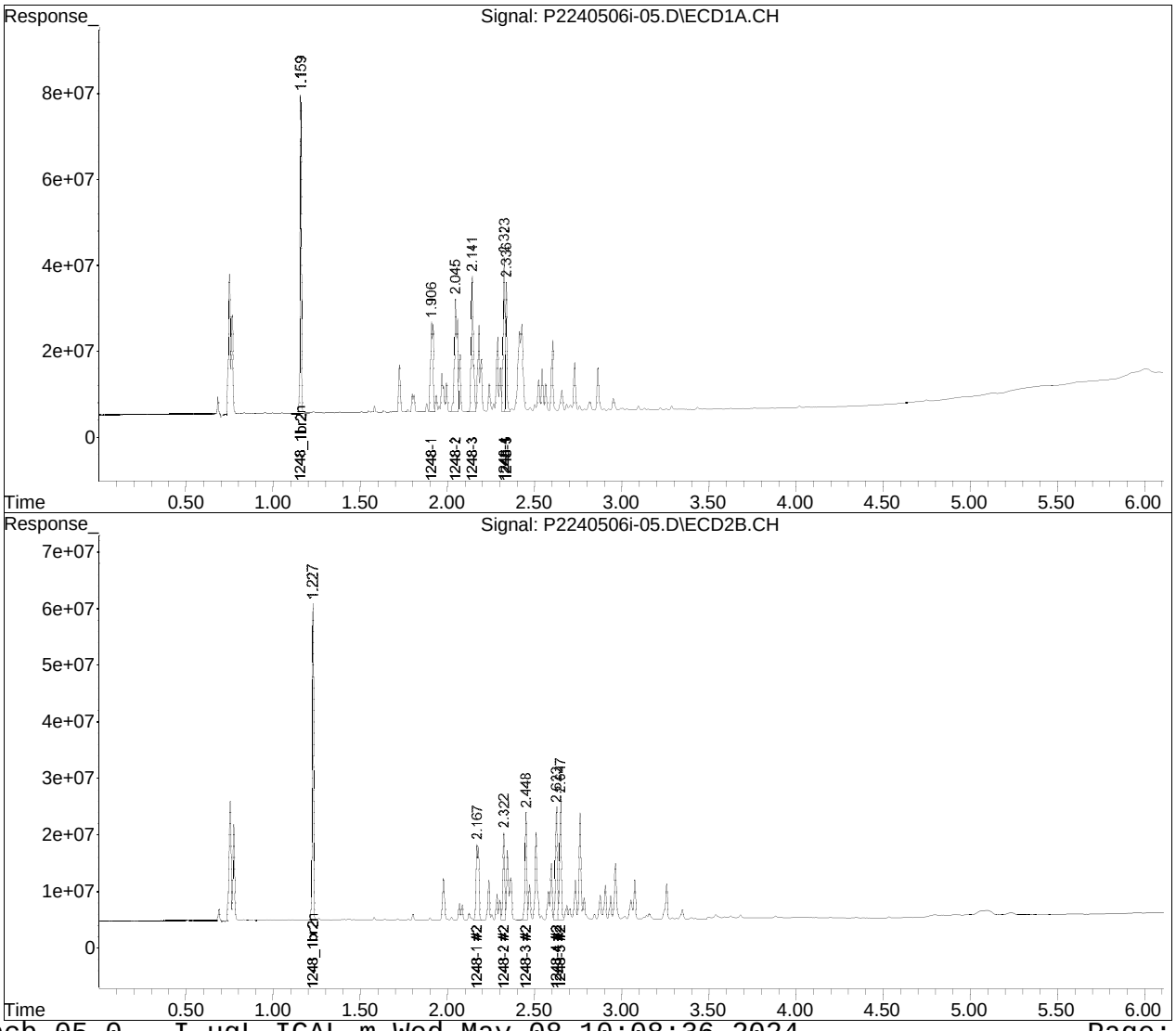
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

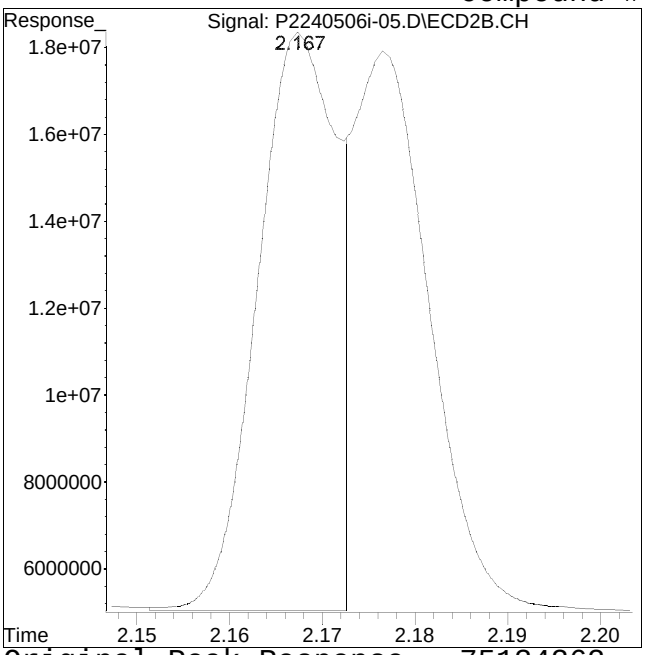
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

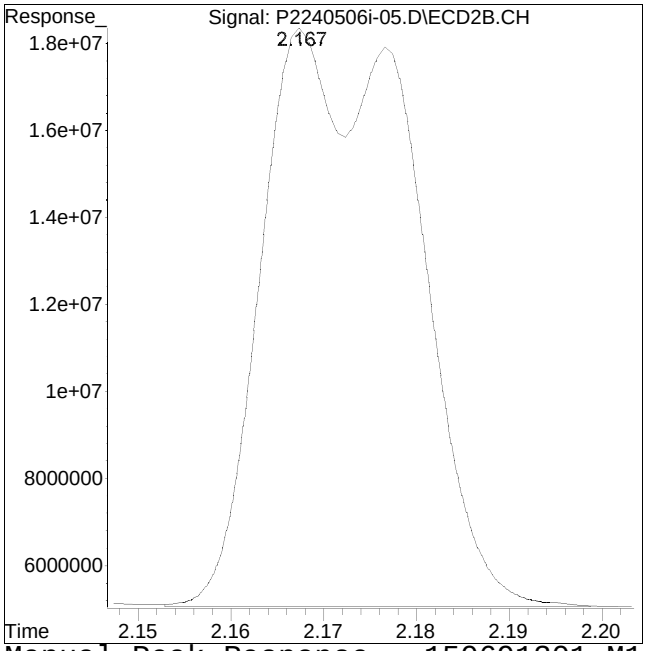


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #86: 1248-1 #2



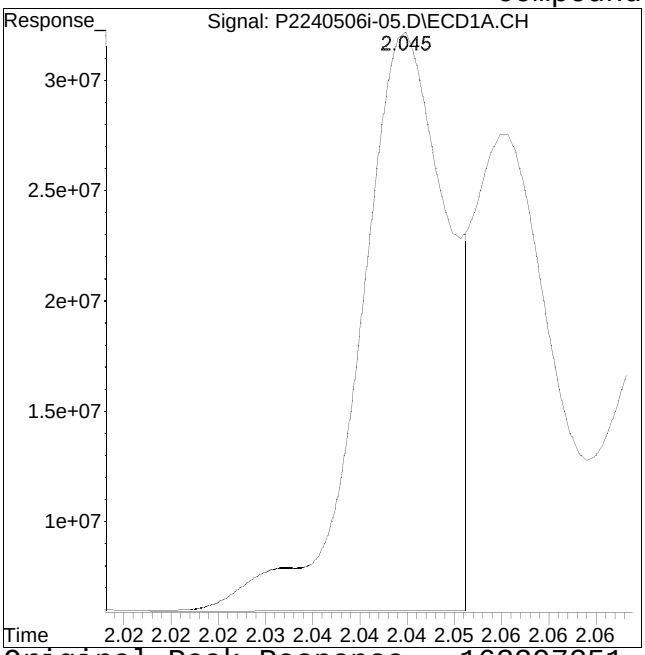


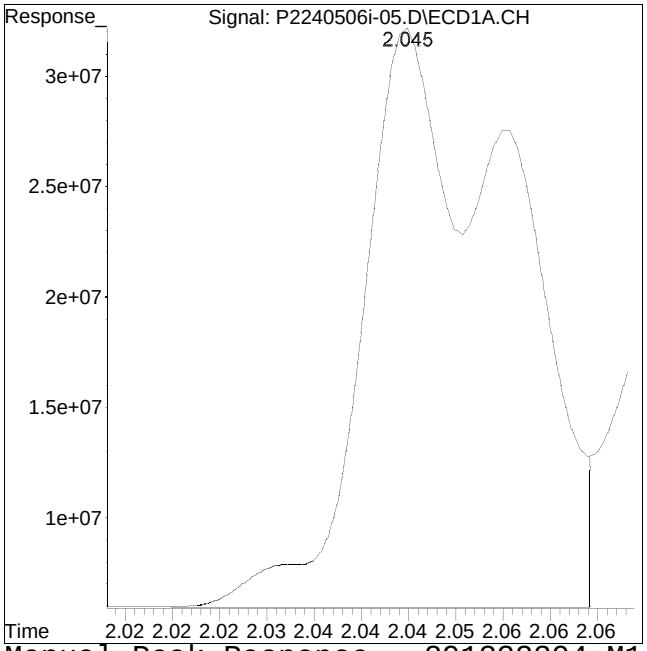
Original Peak Response = 75134262 Manual Peak Response = 150691301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #36: 1248-2





Original Peak Response = 163397251 Manual Peak Response = 291332394 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.159	1.228	368.2E6	270.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.508	1.719	55425335	41450915	258.591	253.137
16) l3	1221-3	1.567	1.779	34088987	25570999	258.782M3	253.137

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.584	1.805	133.6E6	92463612	259.046M3	253.137
Sum	1221-2			223.1E6	159.5E6	776.419	759.412
Average	1221-2					258.806	253.137
18) l4	1254-1	2.305	2.646	189.9E6	126.2E6	256.824M3	253.137
19) l4	1254-2	2.418	2.733	334.3E6	143.9E6	253.515M3	253.137
20) l4	1254-3	2.602	2.963	362.1E6	212.5E6	258.591	253.137
21) l4	1254-4	2.732	3.074	253.4E6	140.0E6	258.591	269.685
22) l4	1254-5	2.954	3.350	347.6E6	193.6E6	258.591	253.137
Sum	1254-1			1487.3E6	816.2E6	N.D.	N.D. D
Average	1254-1					257.222	256.447
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

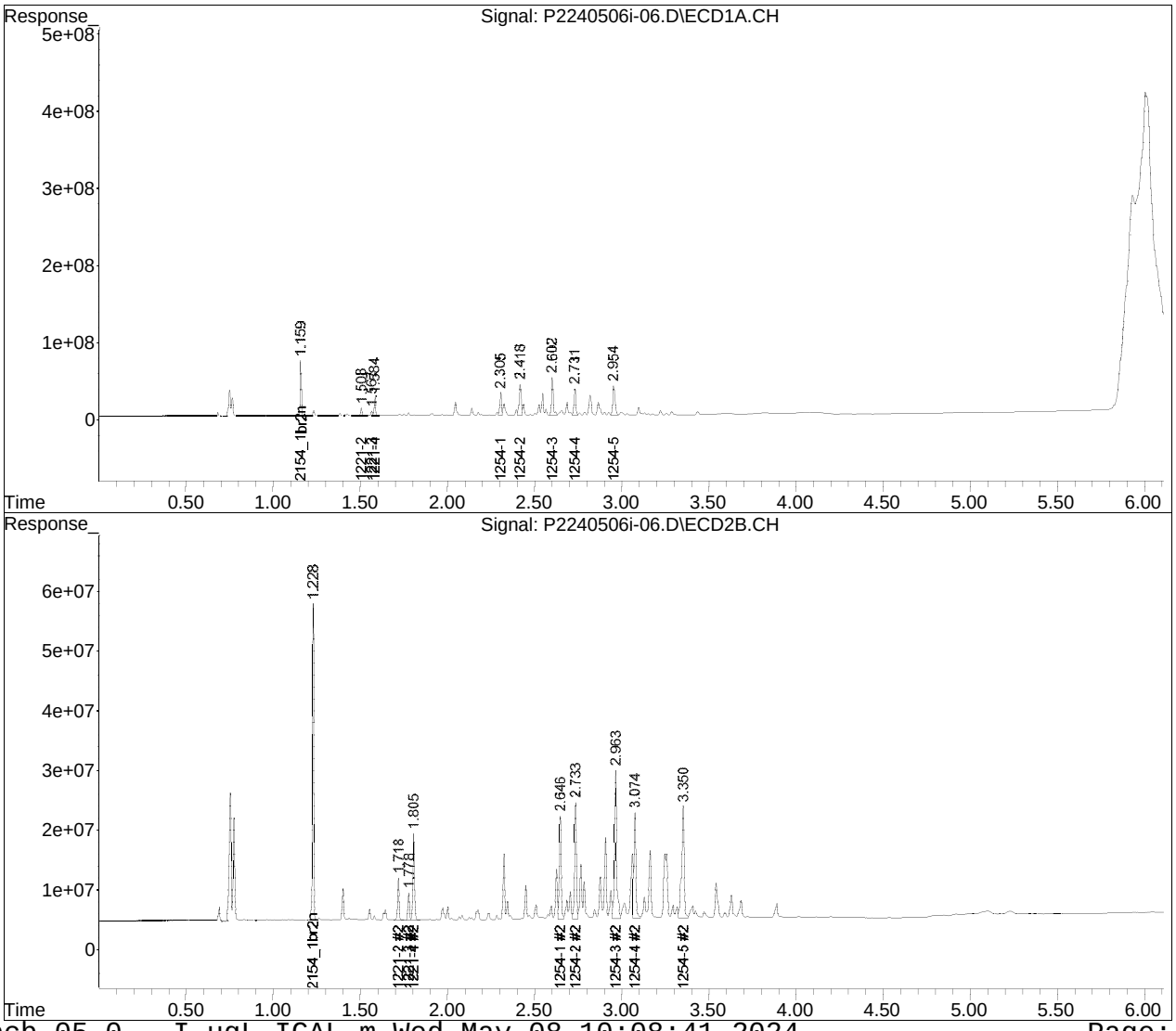
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

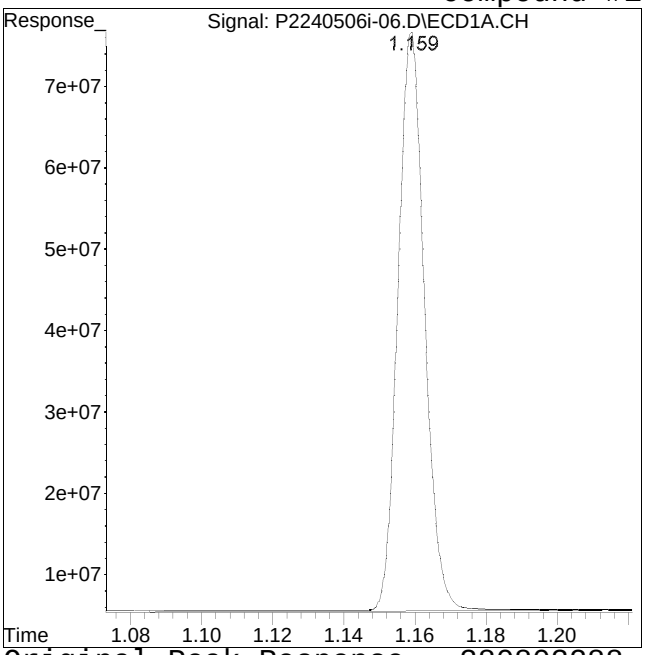
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

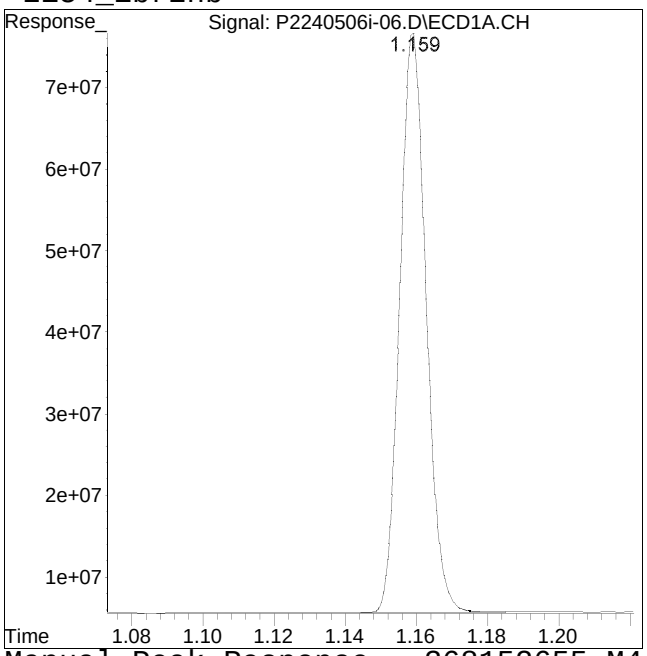


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #14: 2154_1br2nb



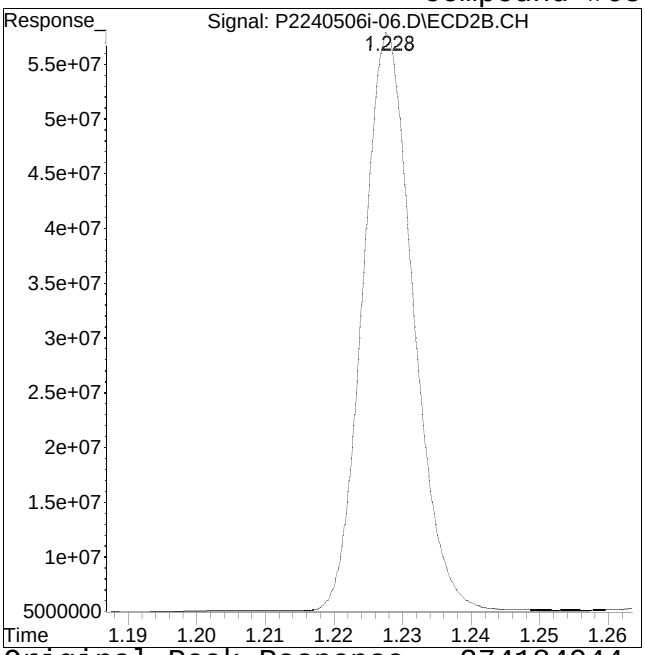


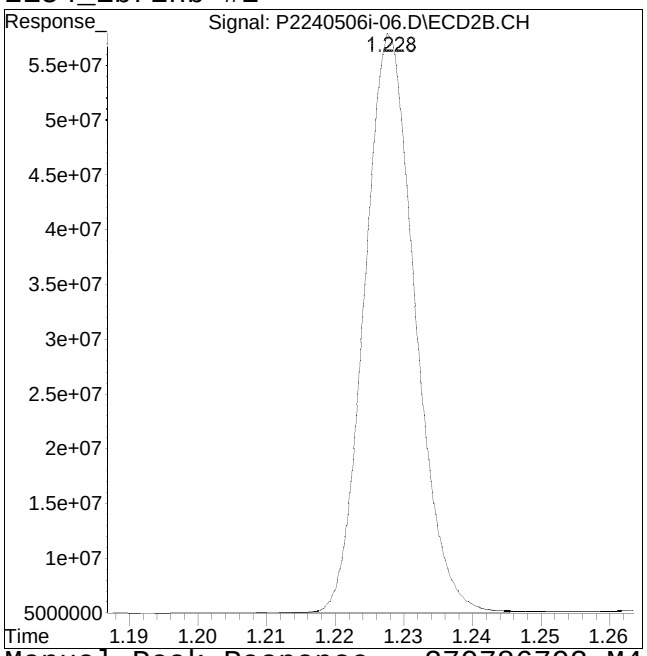
Original Peak Response = 380803288 Manual Peak Response = 368152655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #65: 2154_1br2nb #2



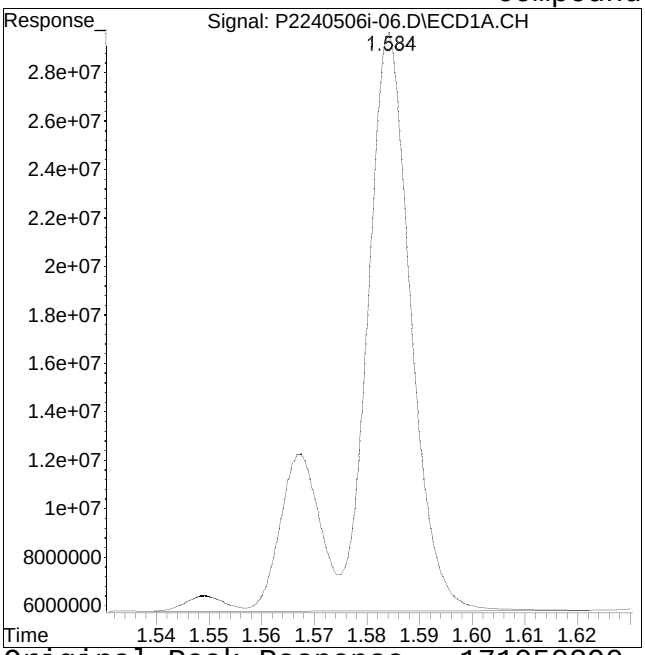


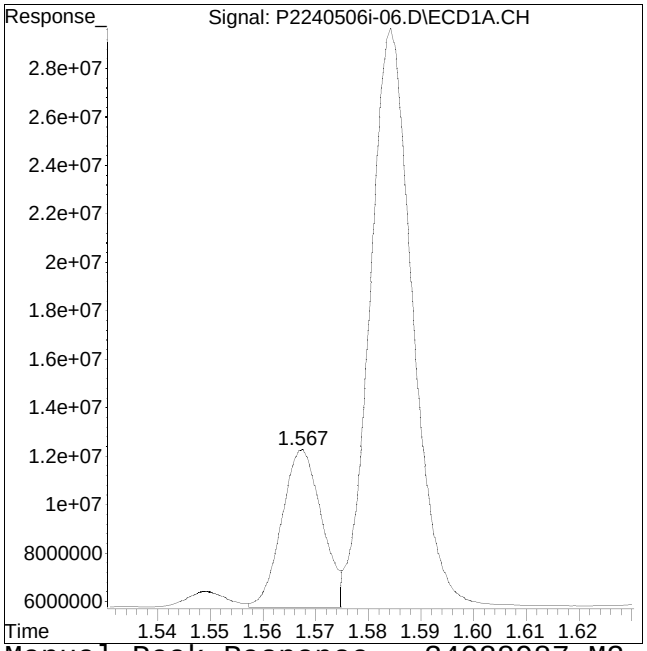
Original Peak Response = 274184944 Manual Peak Response = 270786792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #16: 1221-3



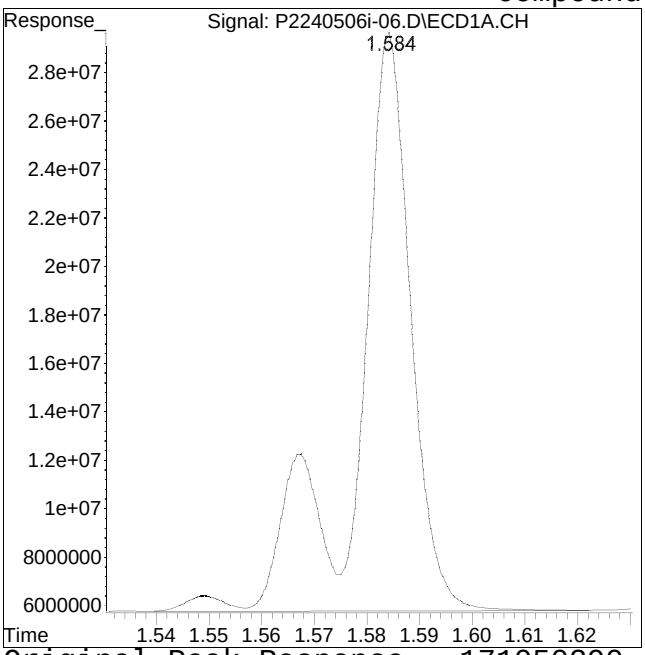


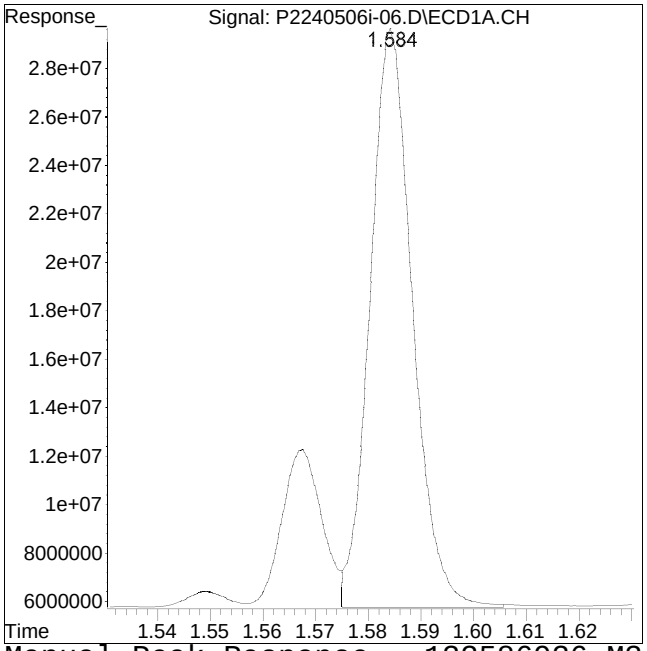
Original Peak Response = 171050290 Manual Peak Response = 34088987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #17: 1221-4



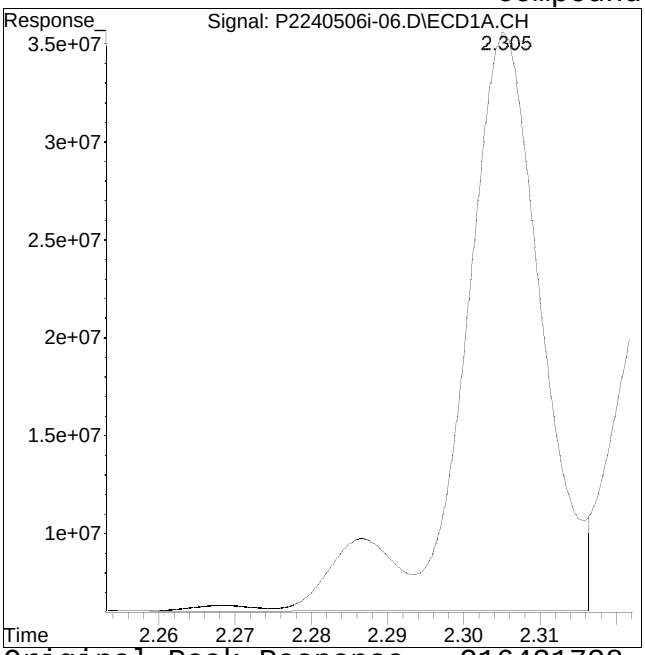


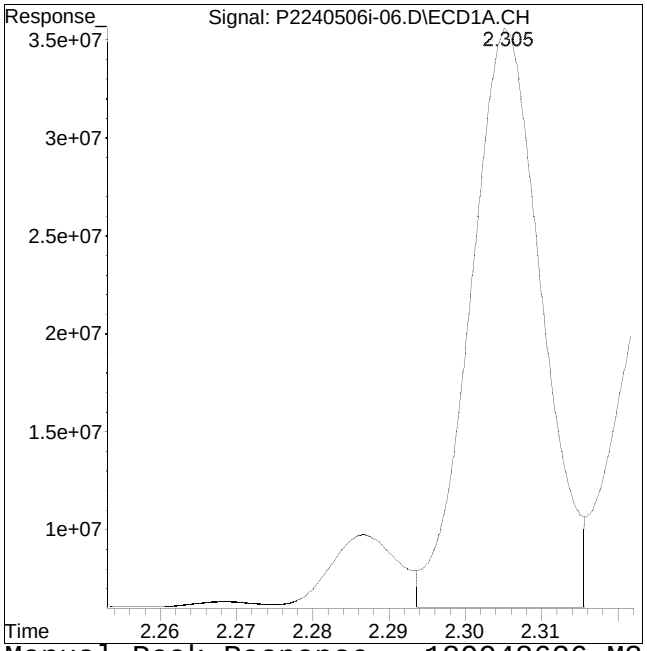
Original Peak Response = 171050290 Manual Peak Response = 133586936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #18: 1254-1



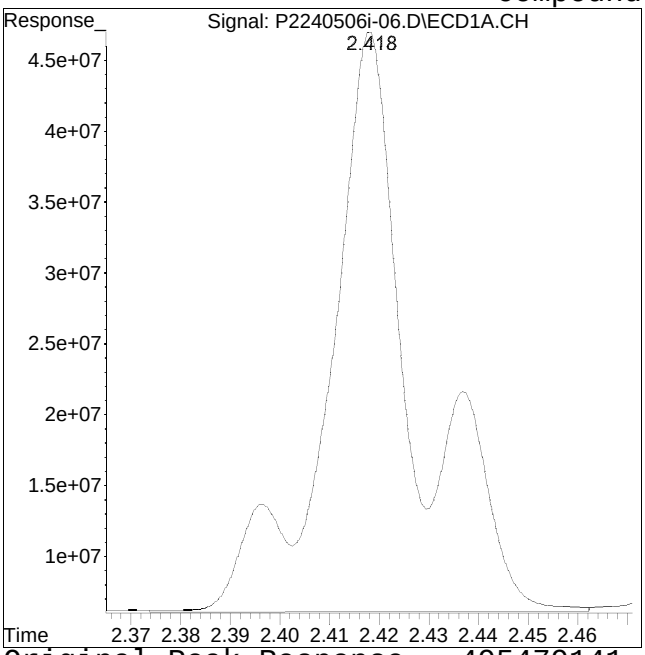


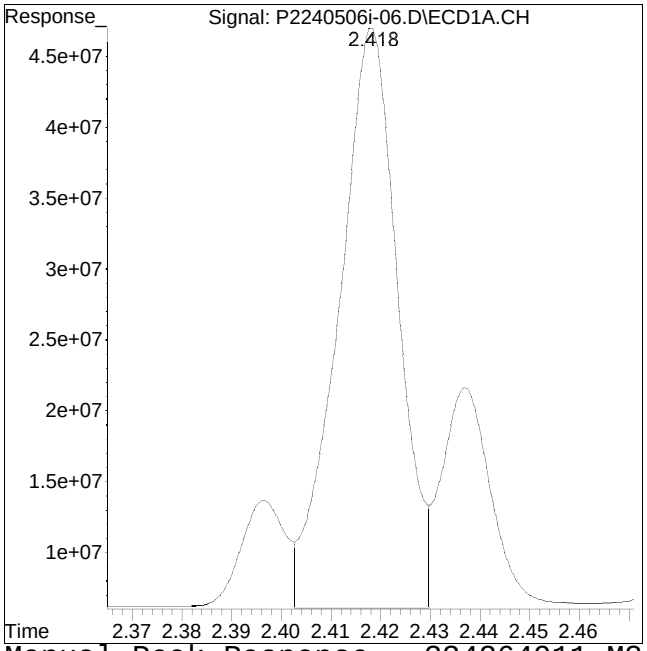
Original Peak Response = 216421738 Manual Peak Response = 189948626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #19: 1254-2





Original Peak Response = 495479141 Manual Peak Response = 334264911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	427.9E6	307.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	67030846	48767818	2.923	3.001
	Spiked Amount 20.000	Range 30 - 150		Recovery =		14.62%#	15.00%#
3) s	Decachlorobi	4.021	4.535	89819738	49489705	1.018M4	6.253M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		5.09%#	31.26%
	Target Compounds						
4) l1	1016-1	1.586	1.806	19864562	14014682	44.922	49.629
5) l1	1016-2	1.727	1.978	44044956	31223629	51.763M1	49.840
6) l1	1016-3	1.917	2.179	83622291	59884413	46.126	47.891
7) l1	1016-4	1.972	2.239	34314487	23349042	46.249M3	46.682
8) l1	1016-5	2.143	2.450	37922778	18676230	46.023	41.140M4
	Sum 1016-1			219.8E6	147.1E6	235.083	235.181
	Average 1016-1					47.017	47.036
9) l2	1260-1	2.686	3.060	55225089	31043678	40.986M4	35.272M4
10) l2	1260-2	2.817	3.162	82457614	38768910	1.109M4	36.451M4
11) l2	1260-3	3.133	3.555	49330916	32395410	38.777M4	37.384
12) l2	1260-4	3.288	3.684	106.8E6	63773305	2.871M4	49.188

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.437	3.886	73865657	44351592	4.149M1	48.488
Sum	1260-1			367.6E6	210.3E6	N.D.	N.D. D
Average	1260-1					17.578	41.356 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

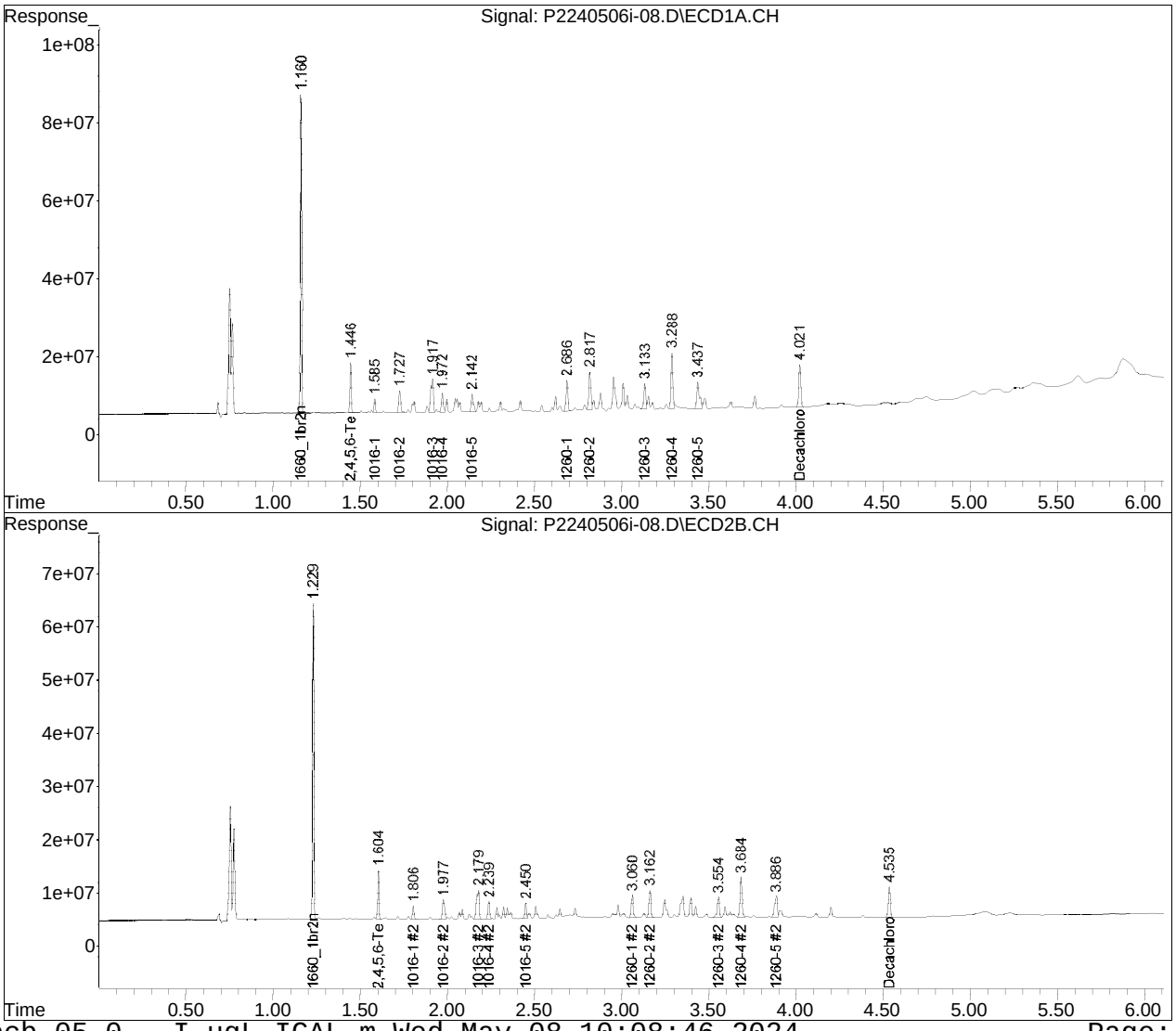
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

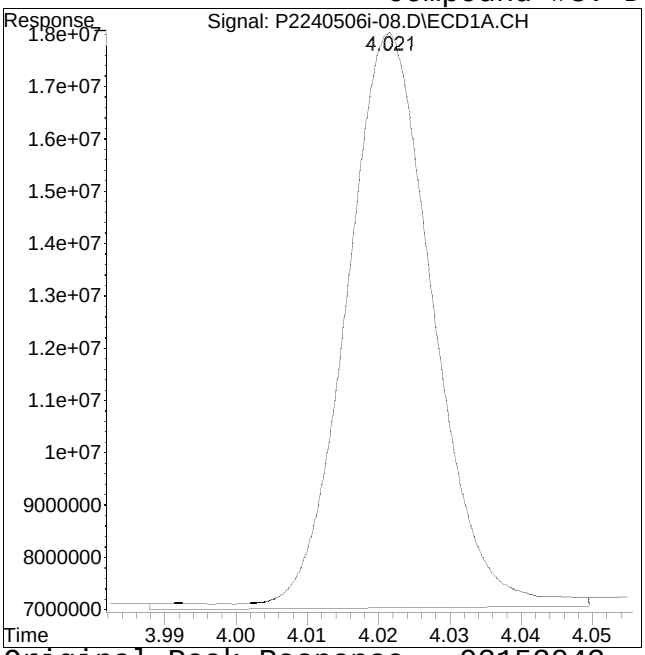
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



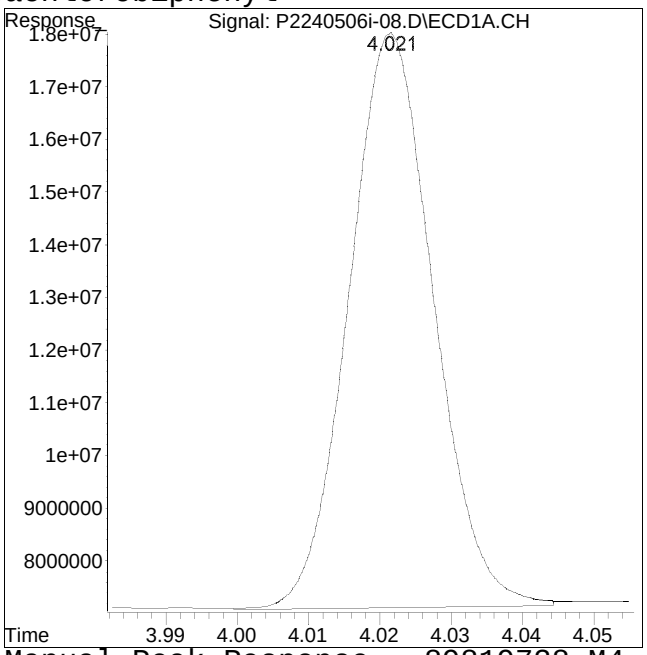
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 93152043



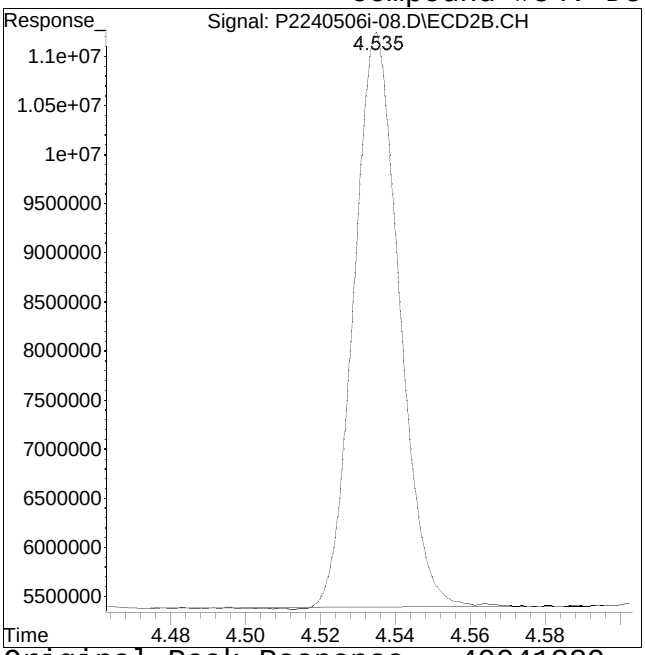
Manual Peak Response = 89819738 M4

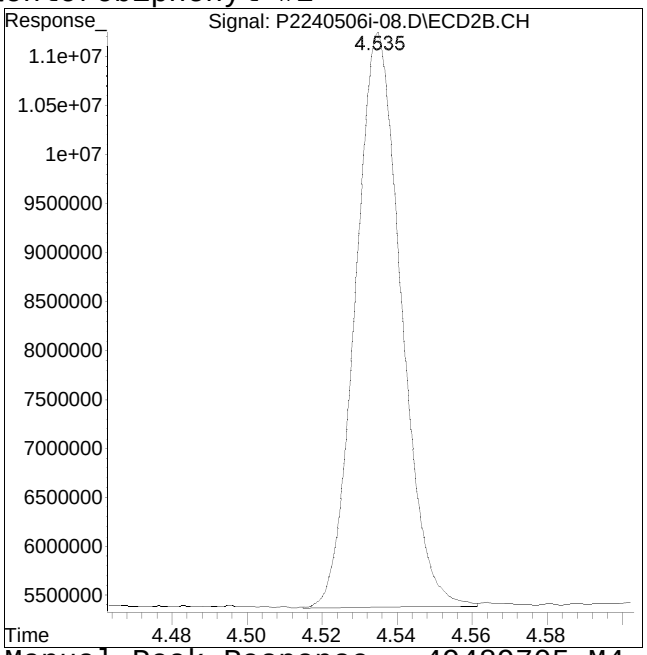
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



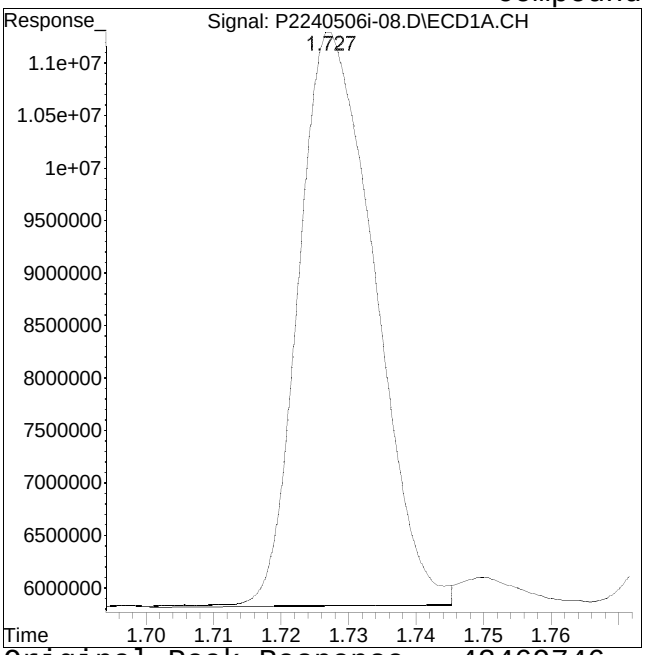


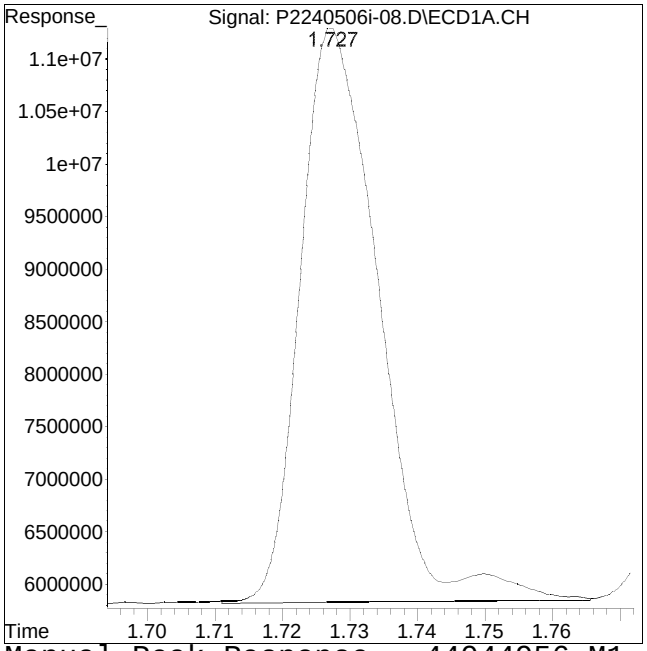
Original Peak Response = 49041339 Manual Peak Response = 49489705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #5: 1016-2



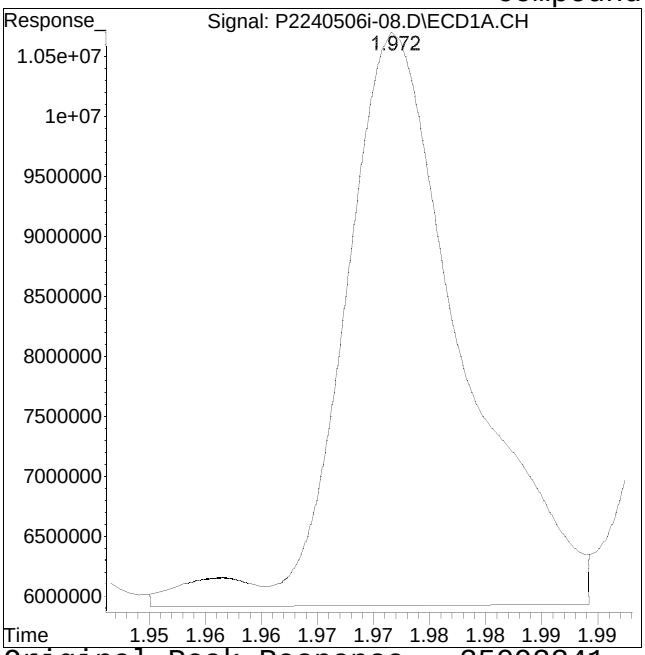


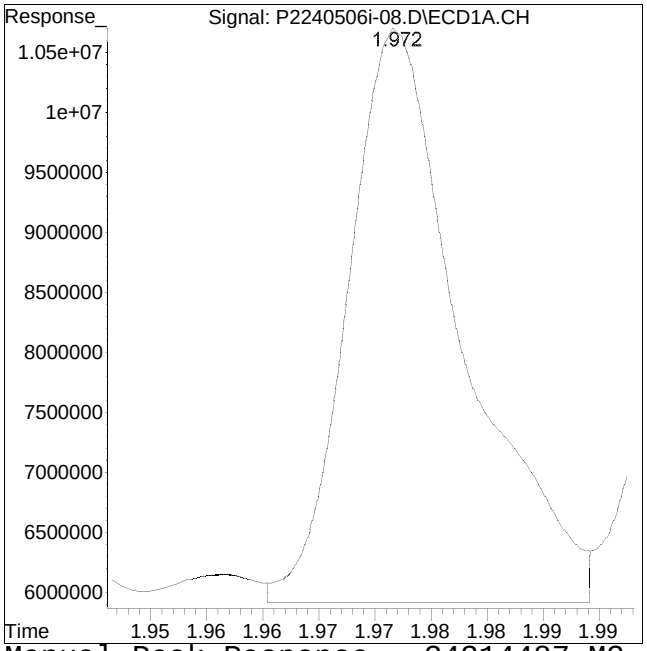
Original Peak Response = 42469746 Manual Peak Response = 44044956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #7: 1016-4



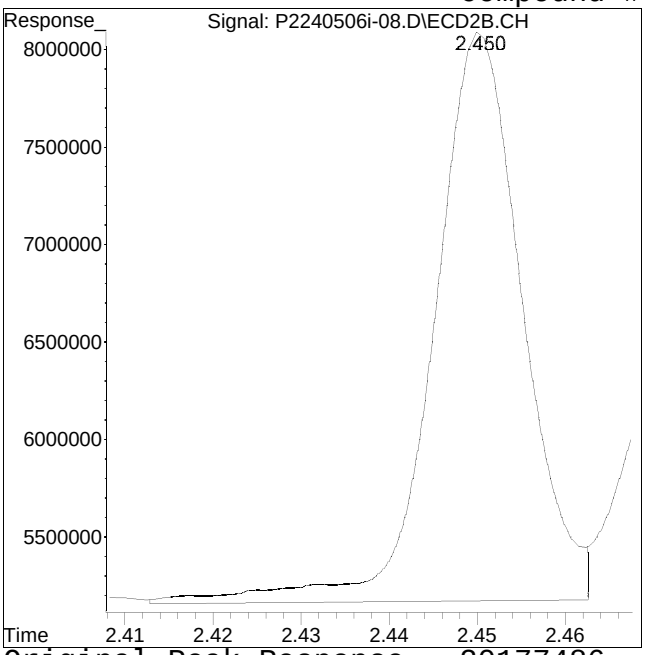


Original Peak Response = 35093341 Manual Peak Response = 34314487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

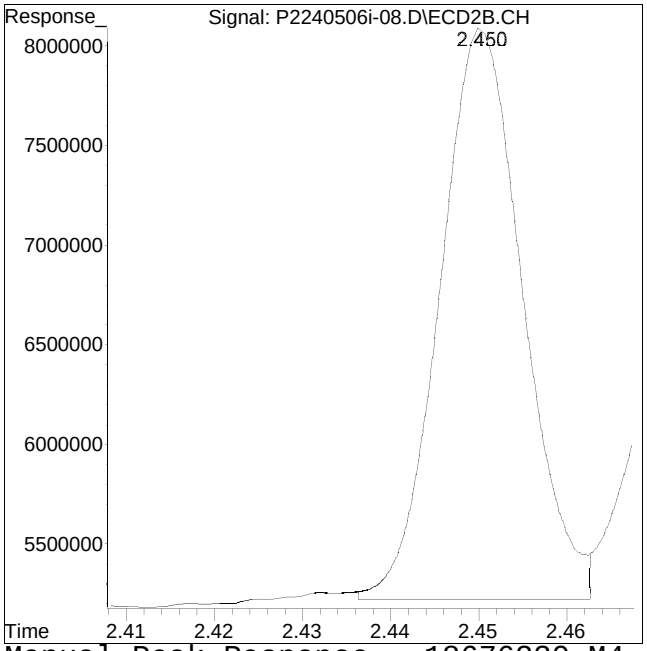
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #59: 1016-5 #2



Original Peak Response = 20177486



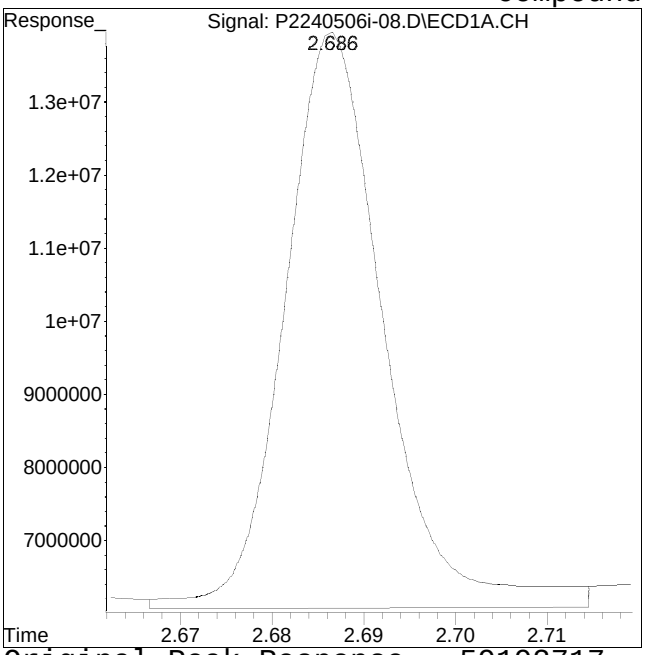
Manual Peak Response = 18676230 M4

M4 = Poor automated baseline construction.

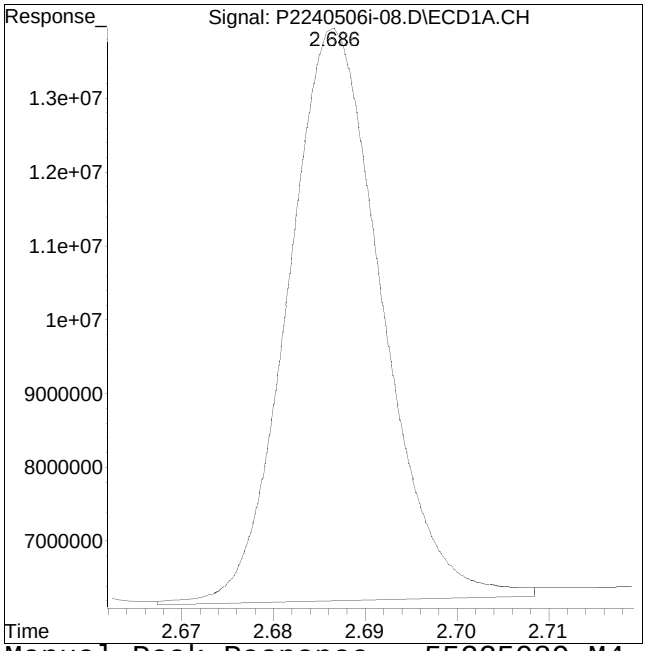
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



Original Peak Response = 59192717



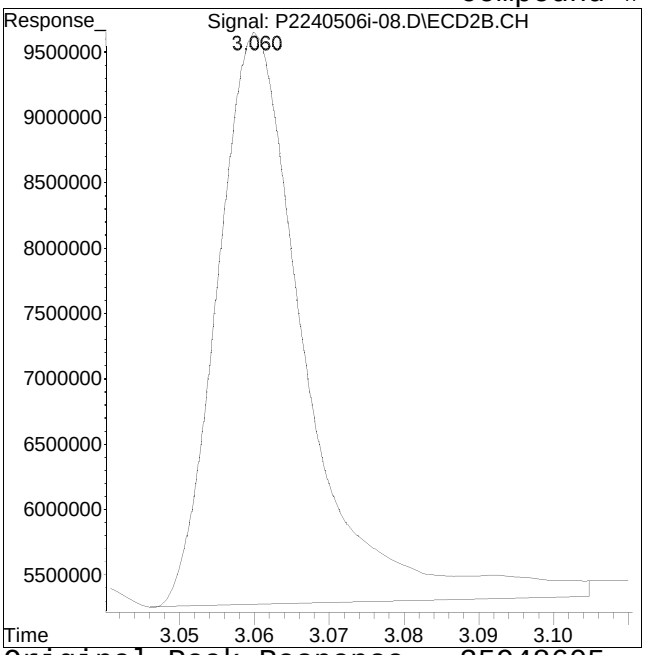
Manual Peak Response = 55225089 M4

M4 = Poor automated baseline construction.

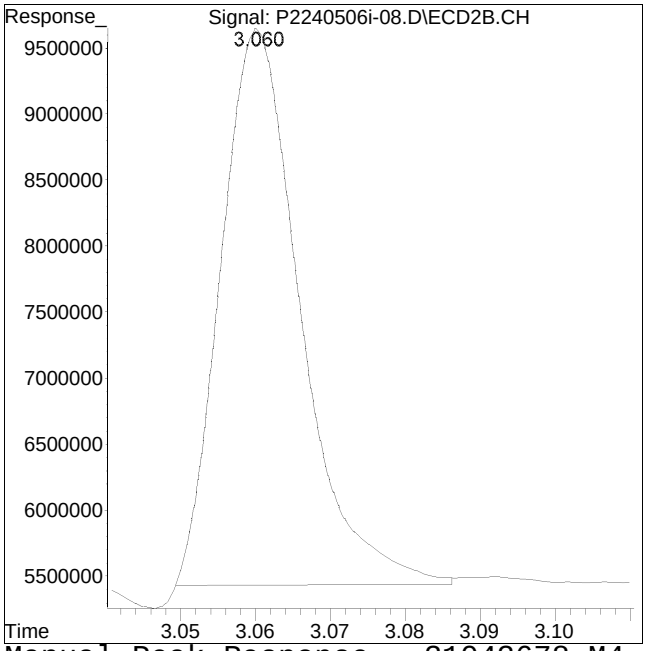
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #60: 1260-1 #2



Original Peak Response = 35948605



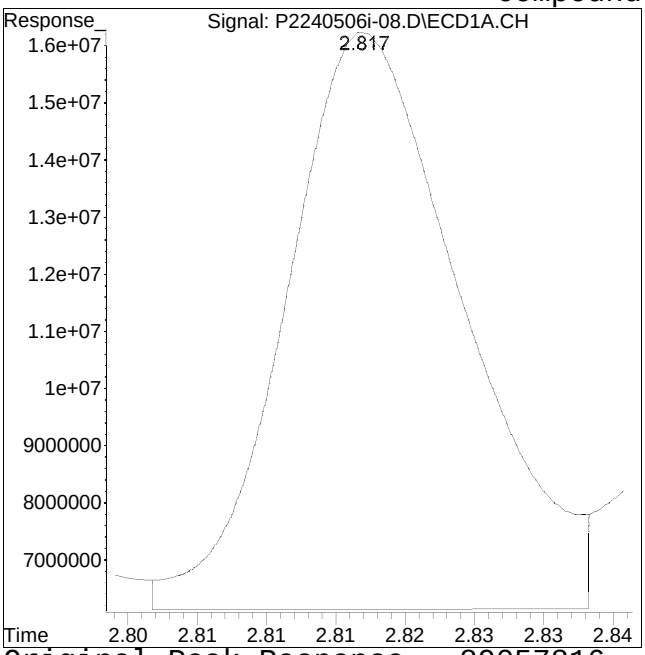
Manual Peak Response = 31043678 M4

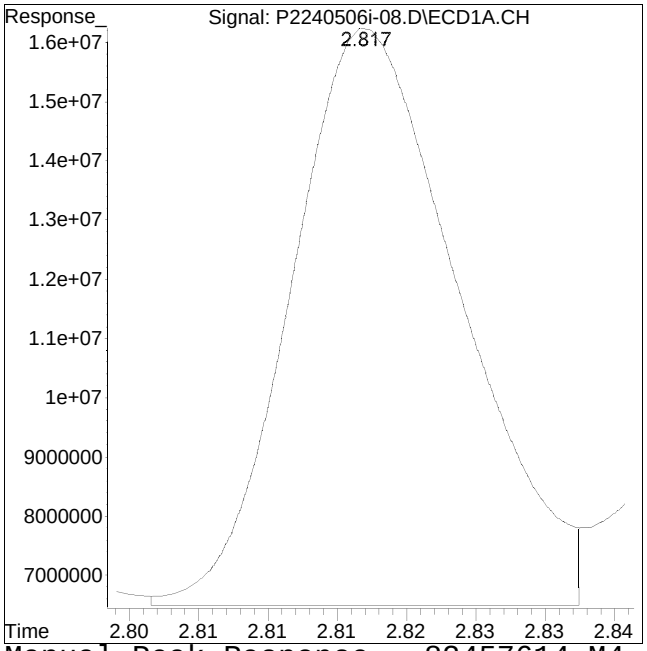
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #10: 1260-2



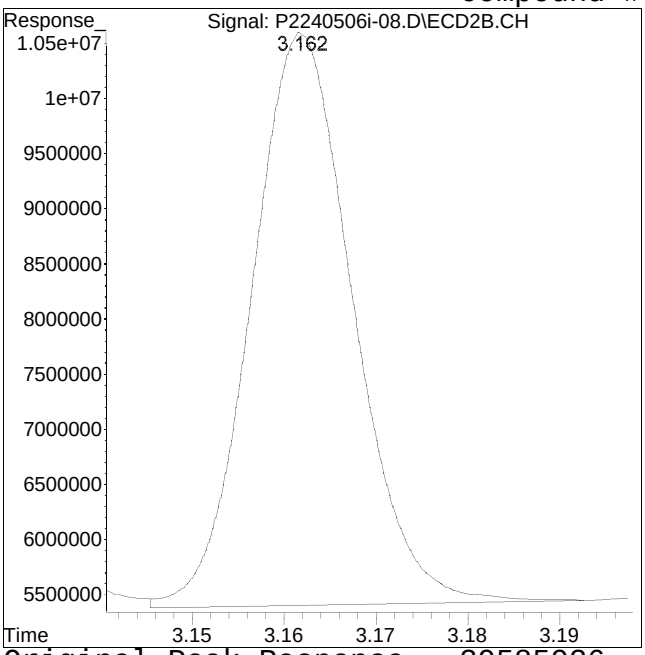


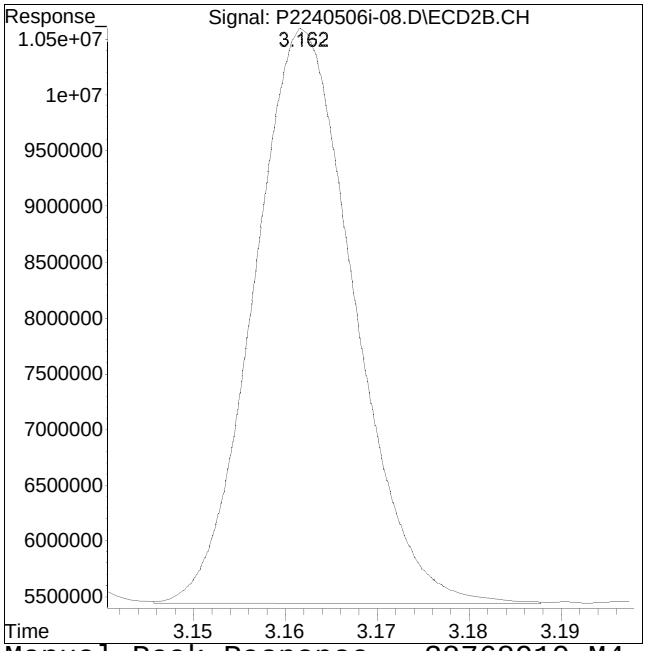
Original Peak Response = 89057816 Manual Peak Response = 82457614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #61: 1260-2 #2



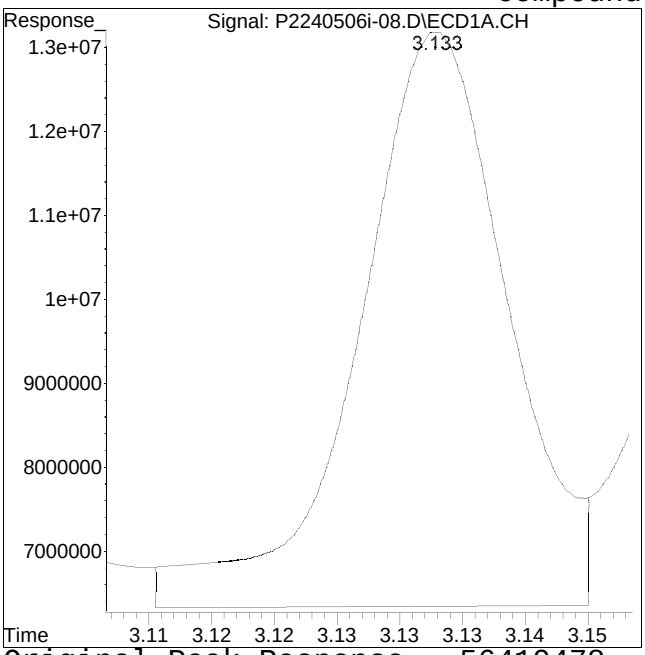


Original Peak Response = 39585936 Manual Peak Response = 38768910 M4
M4 = Poor automated baseline construction.

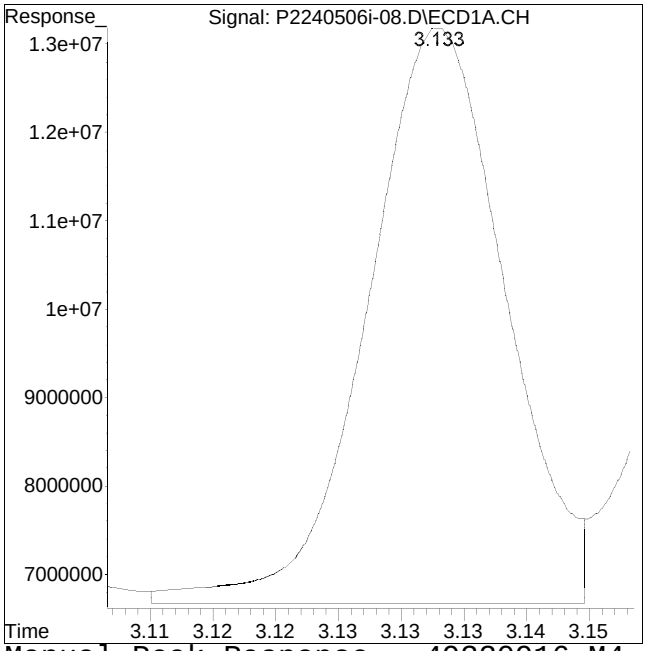
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #11: 1260-3



Original Peak Response = 56410478



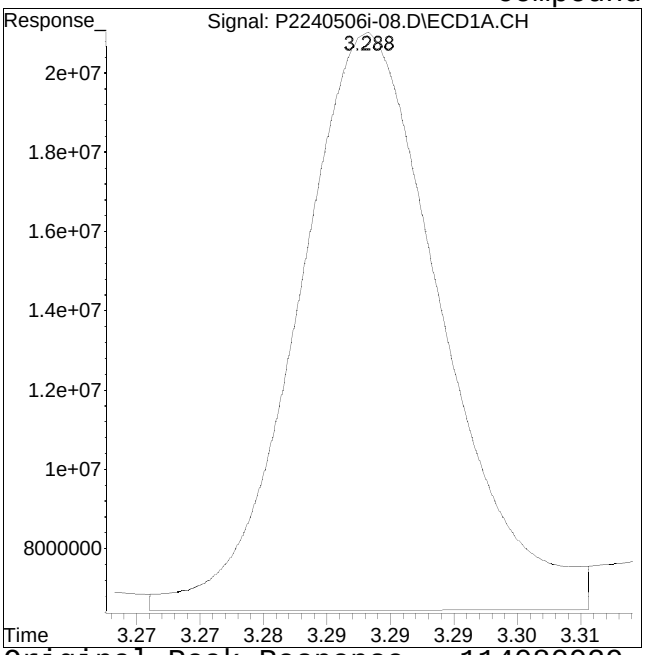
Manual Peak Response = 49330916 M4

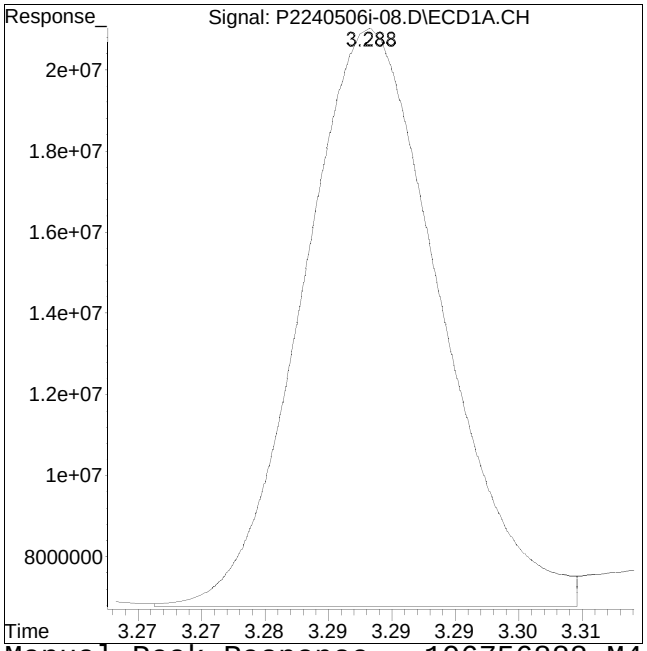
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #12: 1260-4



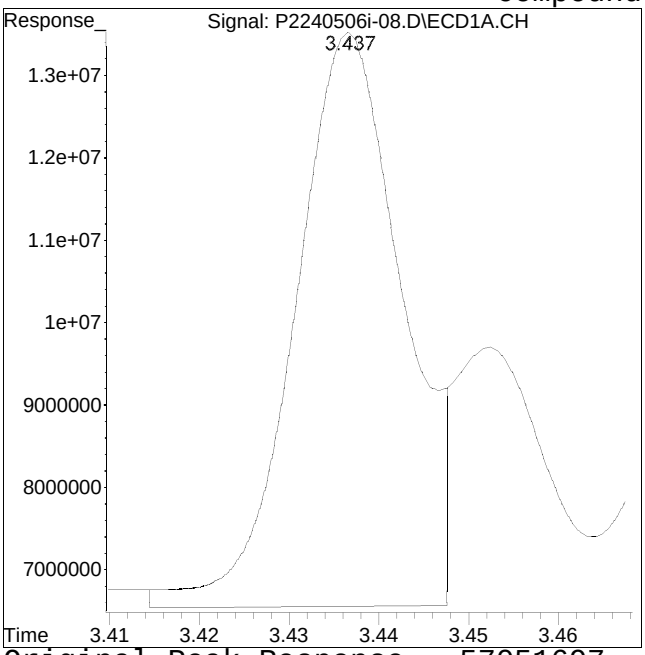


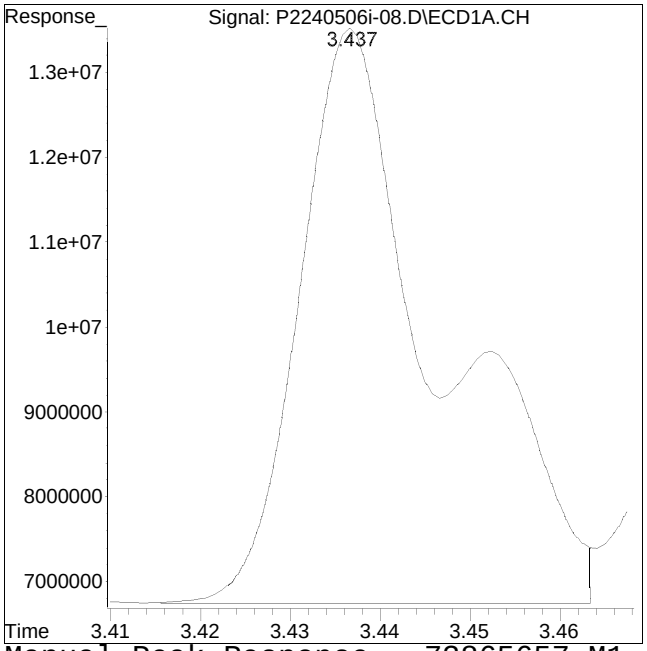
Original Peak Response = 114080929 Manual Peak Response = 106756888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 57051697 Manual Peak Response = 73865657 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	407.8E6	304.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	125.8E6	90520079	5.928	5.735
	Spiked Amount 20.000	Range 30 - 150		Recovery =		29.64%#	28.68%#
3) s	Decachlorobi	4.021	4.535	162.9E6	89288357	2.685M4	11.498M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		13.43%#	57.49%
	Target Compounds						
4) l1	1016-1	1.586	1.806	36249062	25493685	89.016	91.259
5) l1	1016-2	1.728	1.978	80757307	56271795	99.632	90.670
6) l1	1016-3	1.917	2.179	156.8E6	107.7E6	93.131	88.087
7) l1	1016-4	1.972	2.239	64161863	41654032	92.391	85.875
8) l1	1016-5	2.142	2.450	69303987	36552504	90.644M4	84.313
	Sum 1016-1			407.2E6	267.7E6	464.814	440.205
	Average 1016-1					92.963	88.041
9) l2	1260-1	2.686	3.061	99905923	59864552	82.817M4	73.045
10) l2	1260-2	2.817	3.162	155.3E6	75121033	3.250	77.855
11) l2	1260-3	3.133	3.555	97615758	59258669	85.330	75.289
12) l2	1260-4	3.289	3.684	200.6E6	115.2E6	8.236	90.108
13) l2	1260-5	3.437	3.886	139.3E6	80354238	11.929M1	89.485
	Sum 1260-1			692.7E6	389.8E6	N.D.	N.D. D
	Average 1260-1					38.312	81.156 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

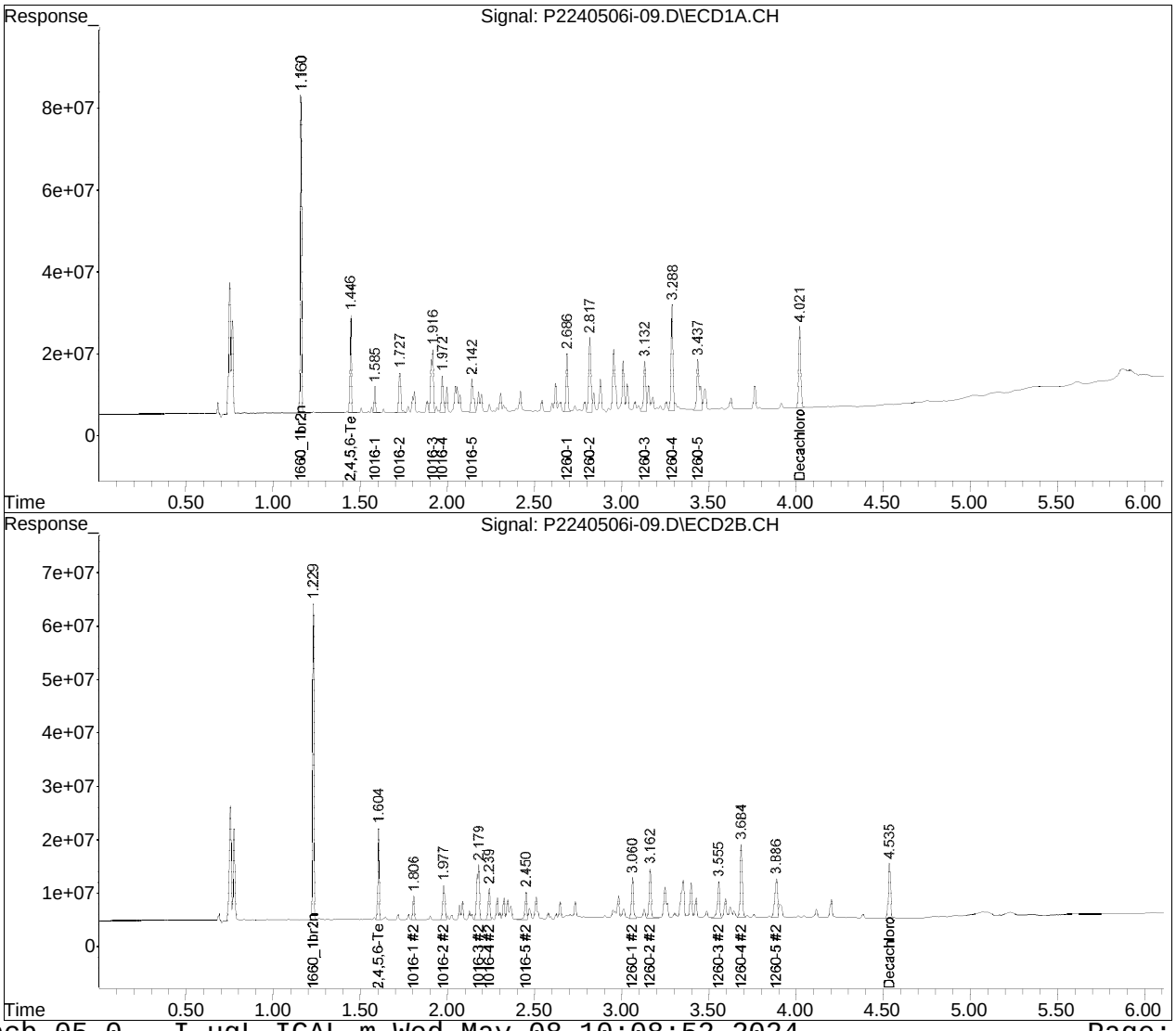
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

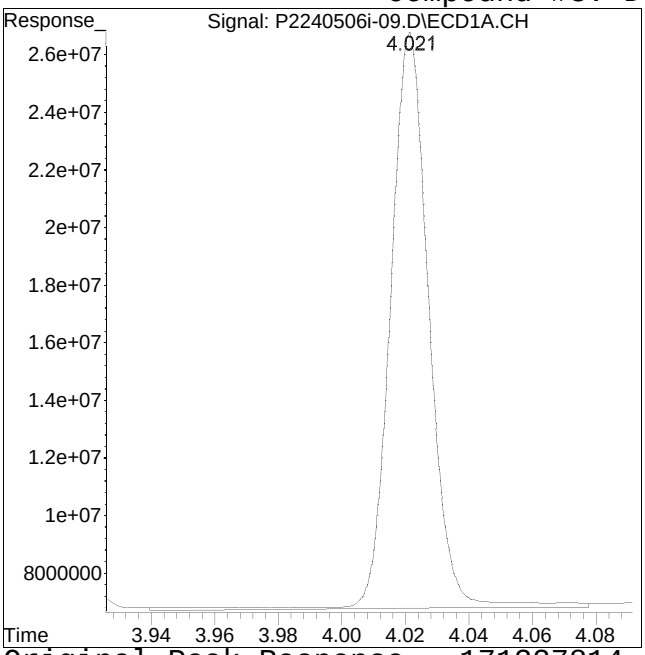
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

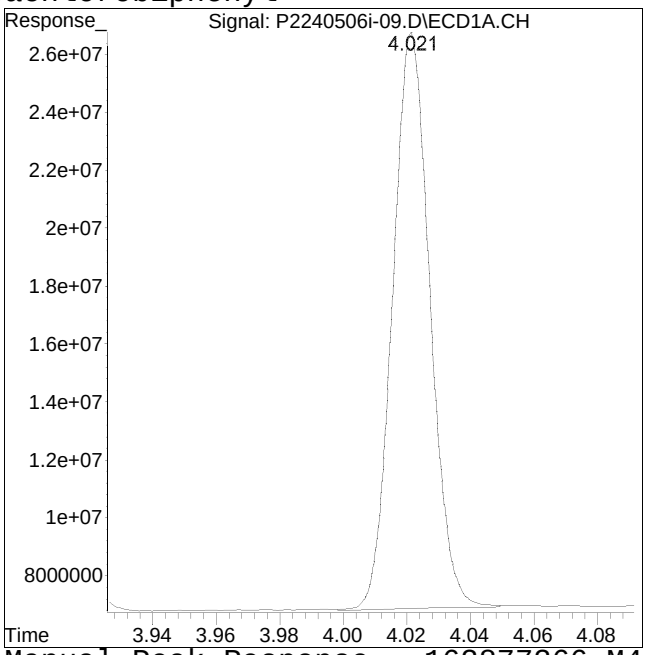


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



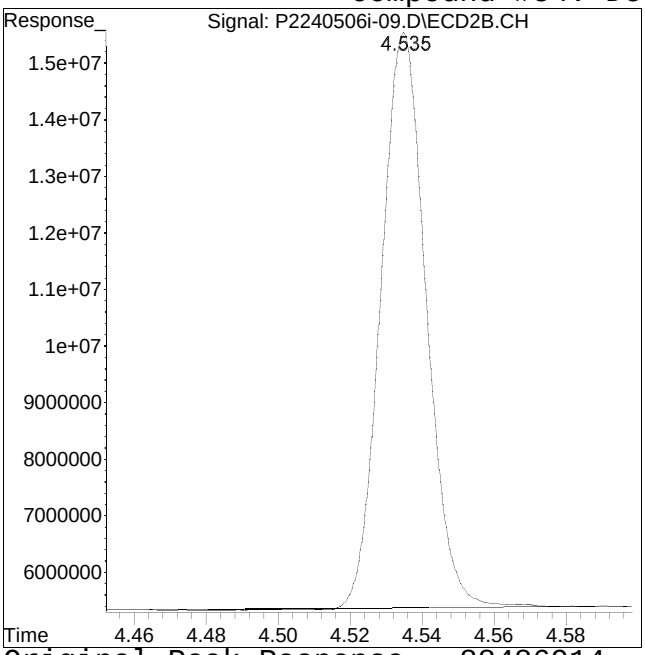


Original Peak Response = 171327814 Manual Peak Response = 162877366 M4
M4 = Poor automated baseline construction.

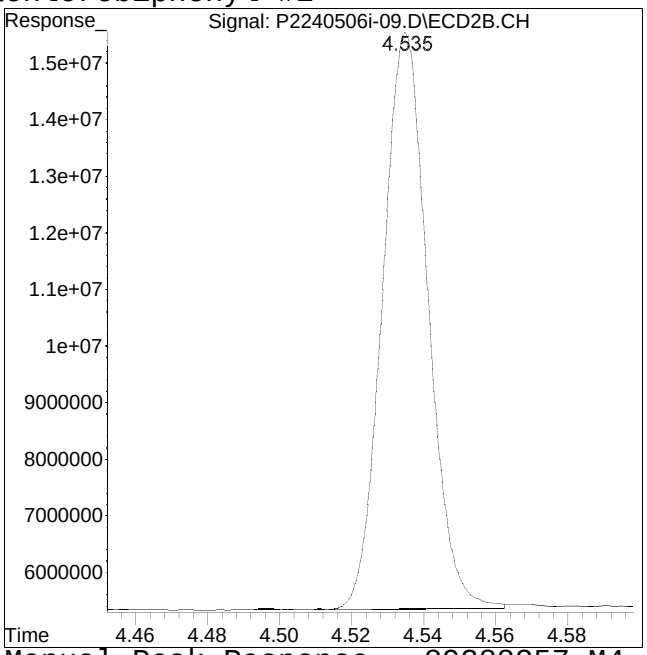
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 88486914



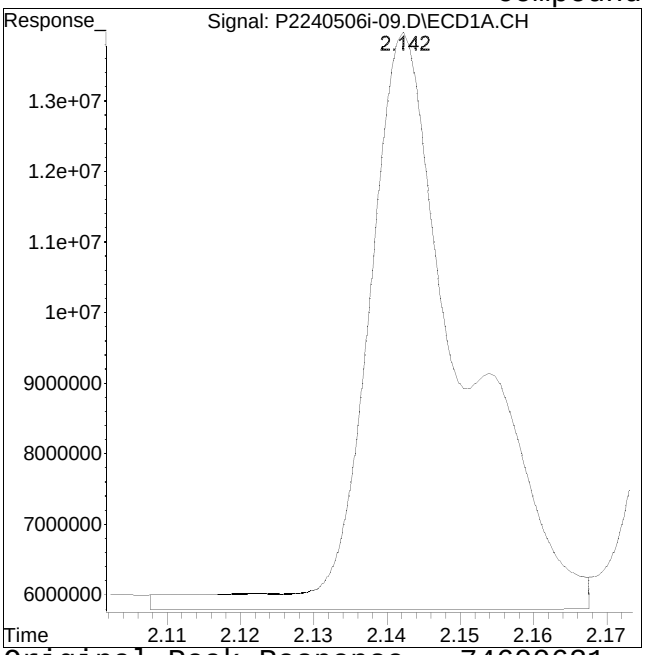
Manual Peak Response = 89288357 M4

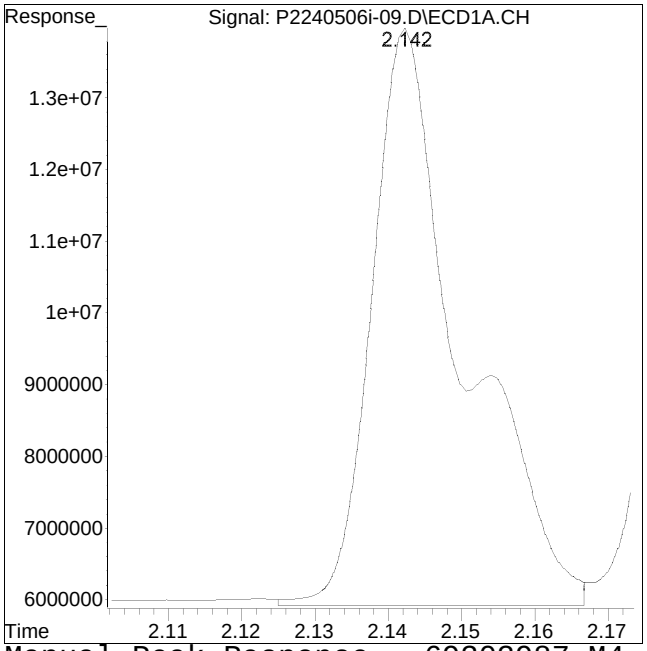
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #8: 1016-5



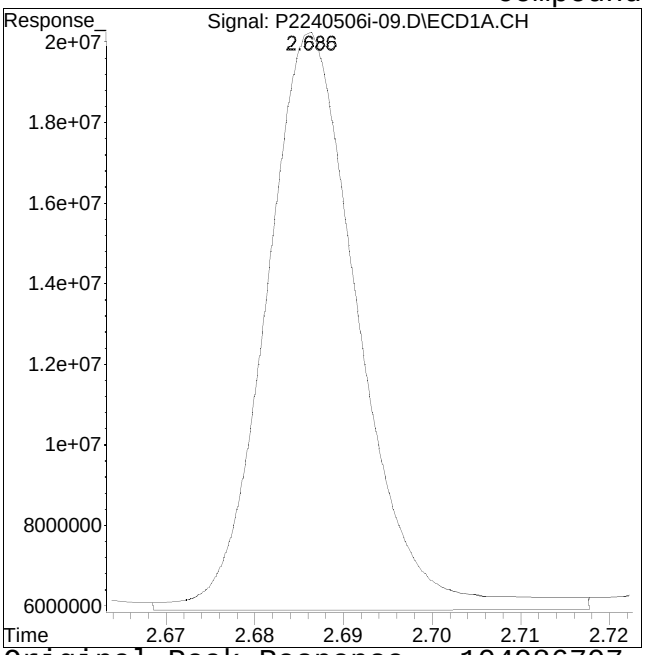


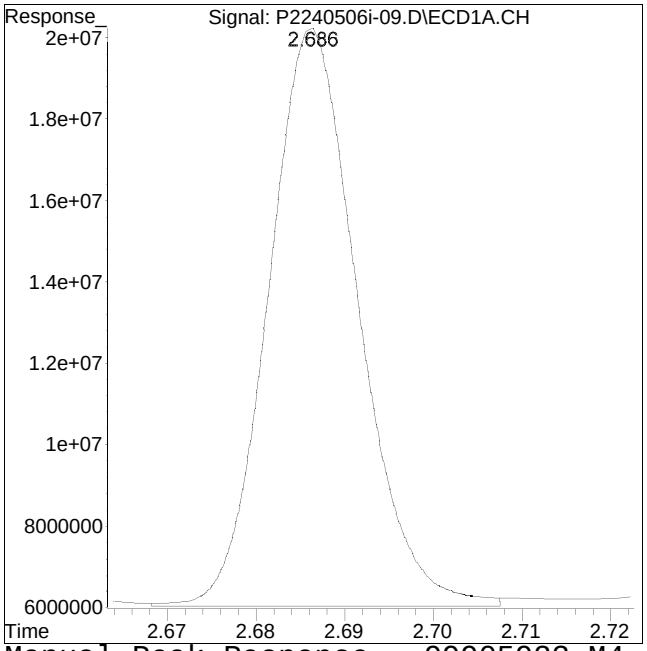
Original Peak Response = 74600631 Manual Peak Response = 69303987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



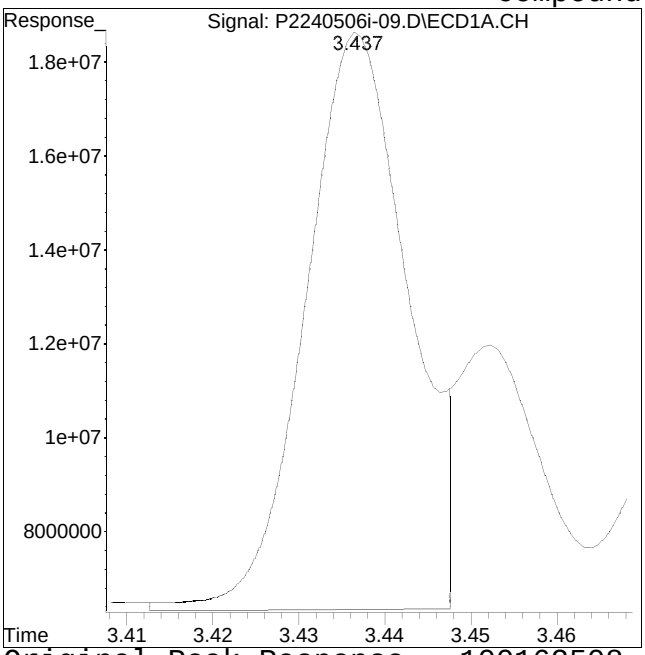


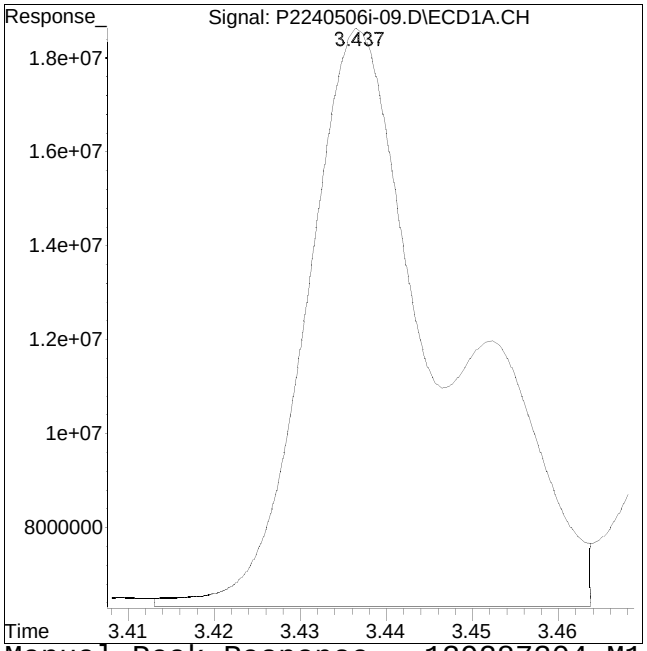
Original Peak Response = 104986707 Manual Peak Response = 99905923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 100162508 Manual Peak Response = 139287304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	411.7E6	309.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	440.1E6	304.5E6	20.928	19.488
	Spiked Amount 20.000	Range 30 - 150		Recovery =		104.64%	97.44%
3) s	Decachlorobi	4.022	4.536	551.8E6	271.9E6	11.192	35.423
	Spiked Amount 20.000	Range 30 - 150		Recovery =		55.96%	177.12%#
	Target Compounds						
4) l1	1016-1	1.586	1.806	112.2E6	79371159	280.686	285.782
5) l1	1016-2	1.728	1.978	251.1E6	174.4E6	307.207	283.030
6) l1	1016-3	1.917	2.179	526.9E6	348.1E6	315.467	288.731
7) l1	1016-4	1.972	2.239	206.5E6	132.5E6	300.281	278.595
8) l1	1016-5	2.143	2.450	225.4E6	110.5E6	293.818	260.901
	Sum 1016-1			1322.1E6	844.8E6	1497.458	1397.039
	Average 1016-1					299.492	279.408
9) l2	1260-1	2.686	3.060	324.1E6	185.1E6	278.182	238.257
10) l2	1260-2	2.817	3.162	492.4E6	220.8E6	13.461	238.363
11) l2	1260-3	3.133	3.555	306.0E6	178.1E6	278.618	237.246
12) l2	1260-4	3.289	3.684	666.9E6	358.9E6	35.206	283.117
13) l2	1260-5	3.437	3.886	465.8E6	250.2E6	51.221M1	281.492
	Sum 1260-1			2255.2E6	1193.0E6	N.D.	N.D. D
	Average 1260-1					131.338	255.695 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

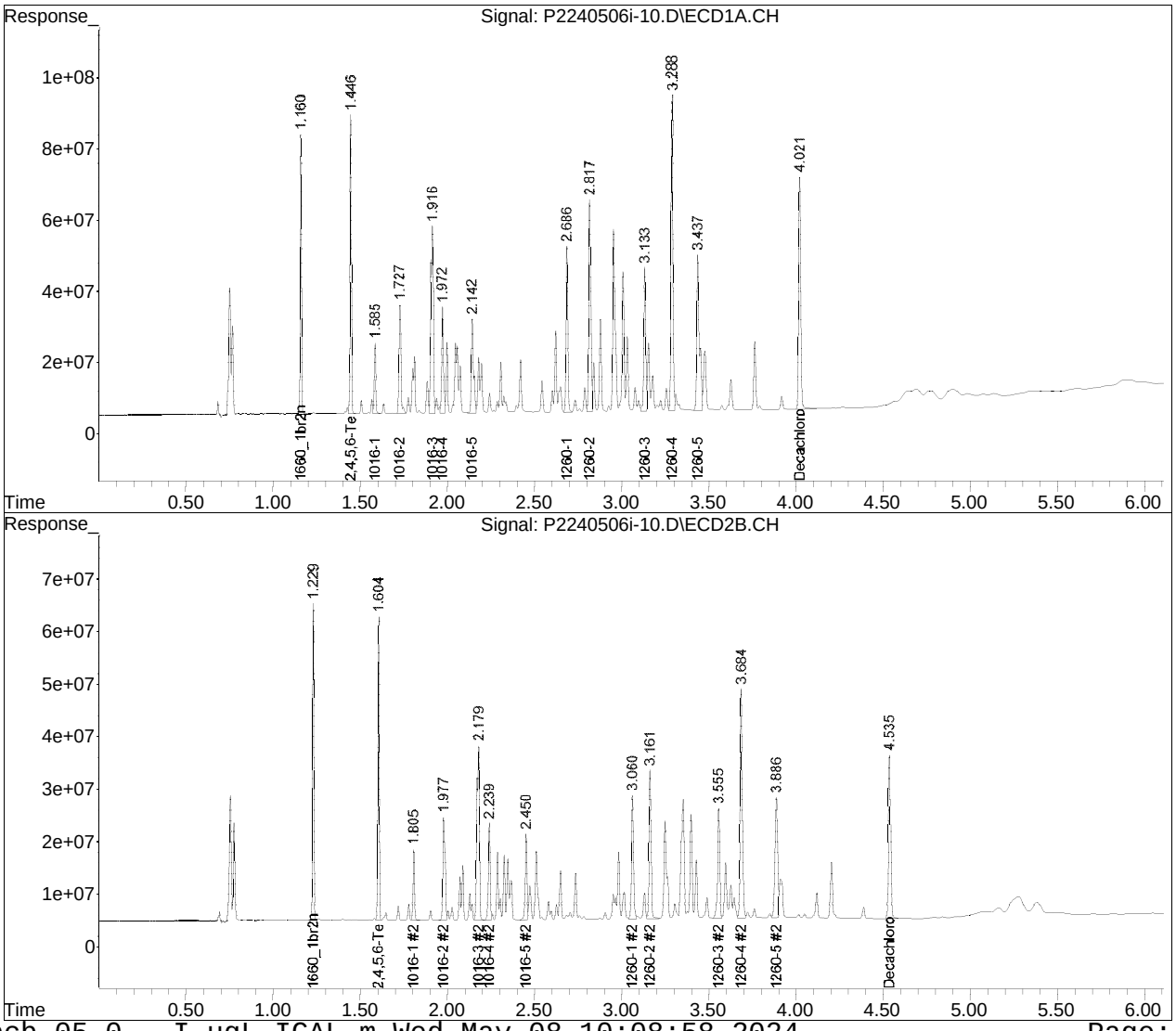
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

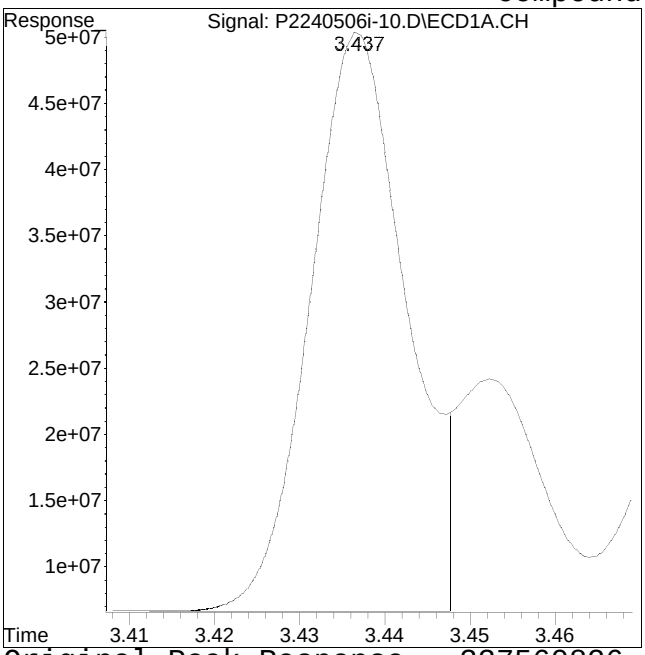
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

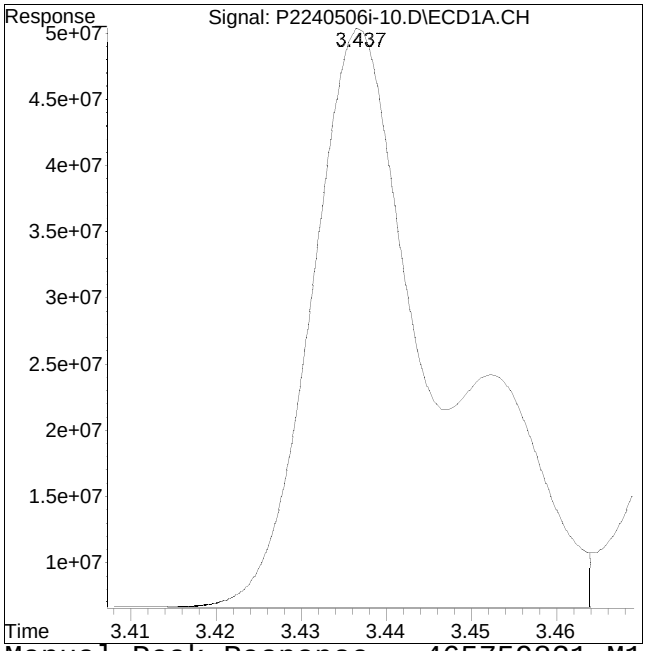


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-10.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:55 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 337560826 Manual Peak Response = 465759821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	415.5E6	312.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	709.8E6	477.1E6	33.443	30.273
	Spiked Amount 20.000	Range 30 - 150		Recovery =		167.21%#	151.36%#
3) s	Decachlorobi	4.022	4.536	878.0E6	426.7E6	17.644	55.122
	Spiked Amount 20.000	Range 30 - 150		Recovery =		88.22%	275.61%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	175.4E6	121.0E6	434.757	431.996
5) l1	1016-2	1.727	1.978	392.1E6	263.3E6	475.280M1	423.742
6) l1	1016-3	1.917	2.179	836.6E6	534.7E6	496.332	439.704
7) l1	1016-4	1.972	2.239	325.4E6	201.9E6	468.913M3	421.018M3
8) l1	1016-5	2.143	2.450	354.7E6	165.1E6	458.196	386.567
Sum	1016-1			2084.3E6	1285.9E6	2333.478	2103.027
Average	1016-1					466.696	420.605
9) l2	1260-1	2.687	3.061	510.9E6	302.2E6	434.496	385.766
10) l2	1260-2	2.817	3.163	779.2E6	358.7E6	21.109	383.873
11) l2	1260-3	3.133	3.555	486.1E6	279.5E6	438.536	369.268
12) l2	1260-4	3.289	3.685	1064.5E6	561.4E6	55.681	439.112
13) l2	1260-5	3.437	3.887	741.6E6	390.9E6	81.944M1	436.141
Sum	1260-1			3582.3E6	1892.7E6	N.D.	N.D. D
Average	1260-1					206.353	402.832 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

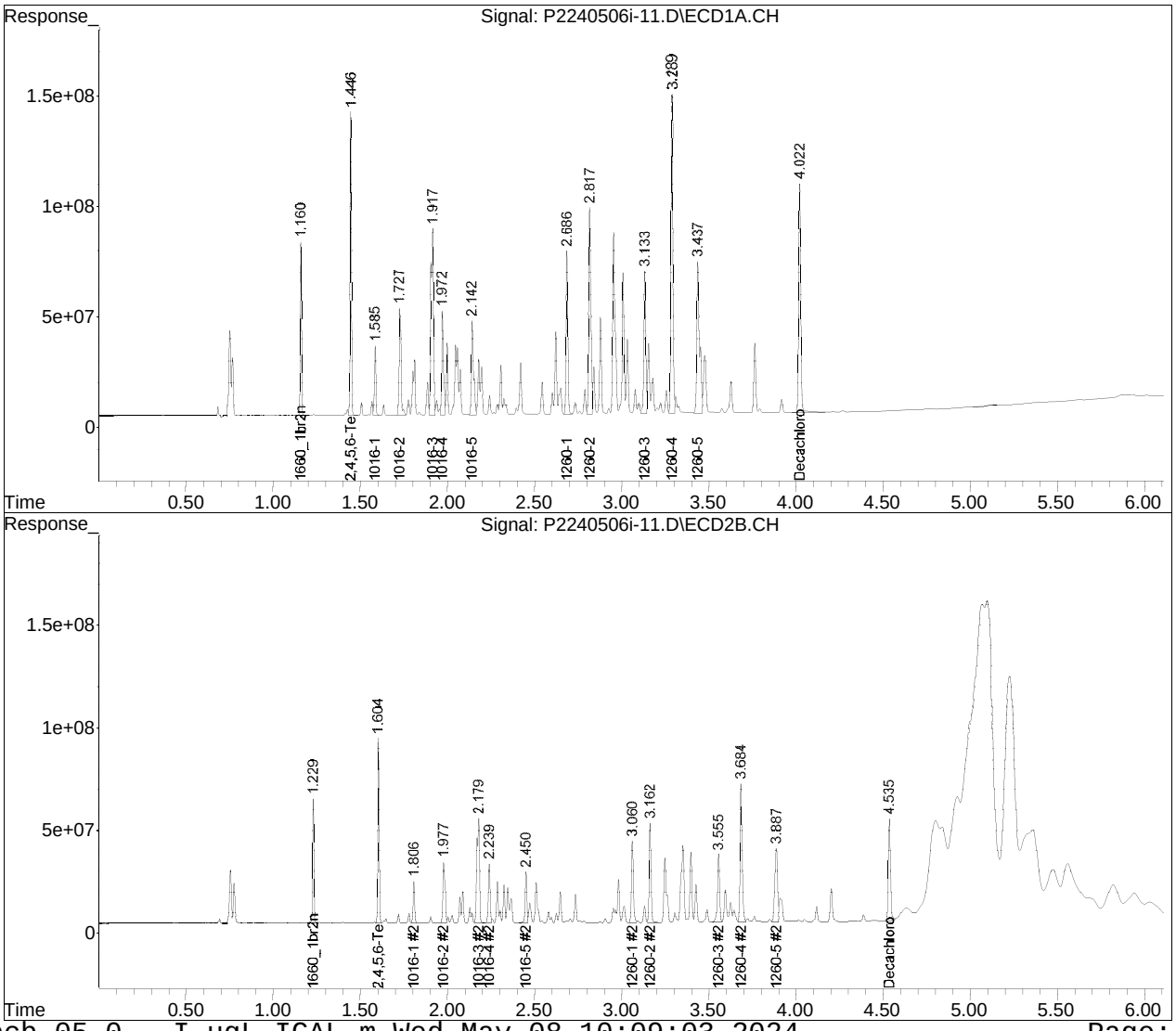
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

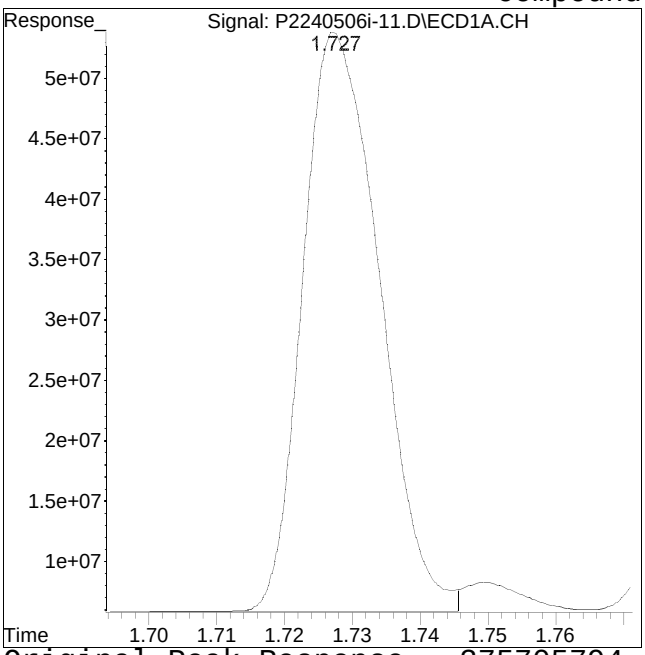
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

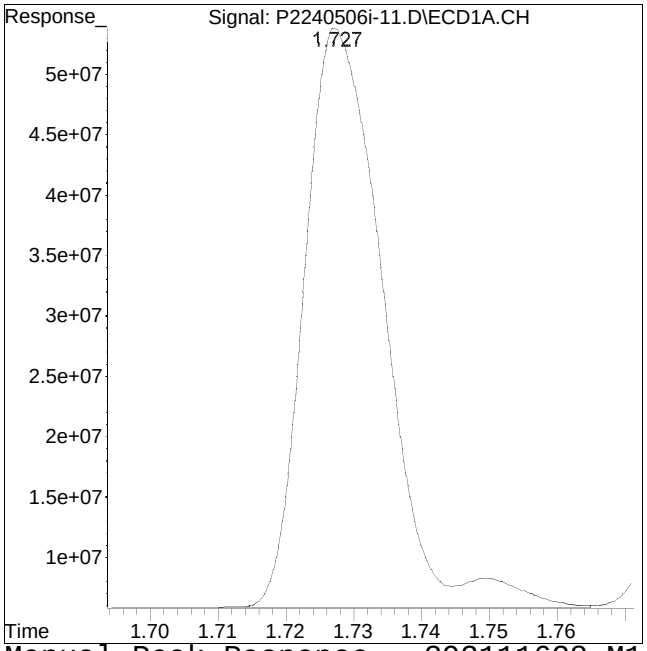


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



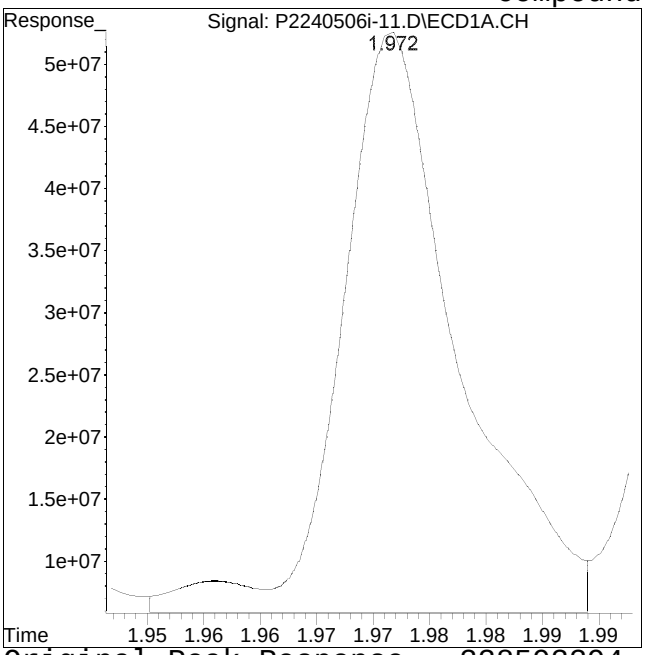


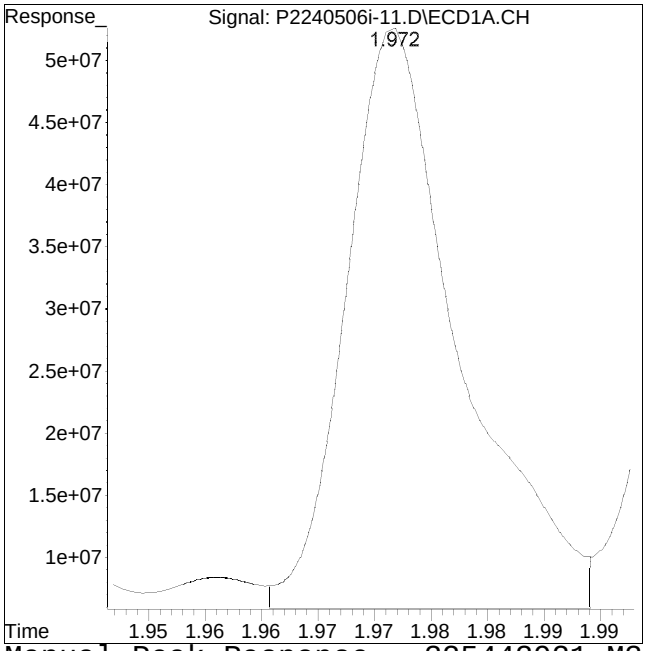
Original Peak Response = 375705794 Manual Peak Response = 392111628 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



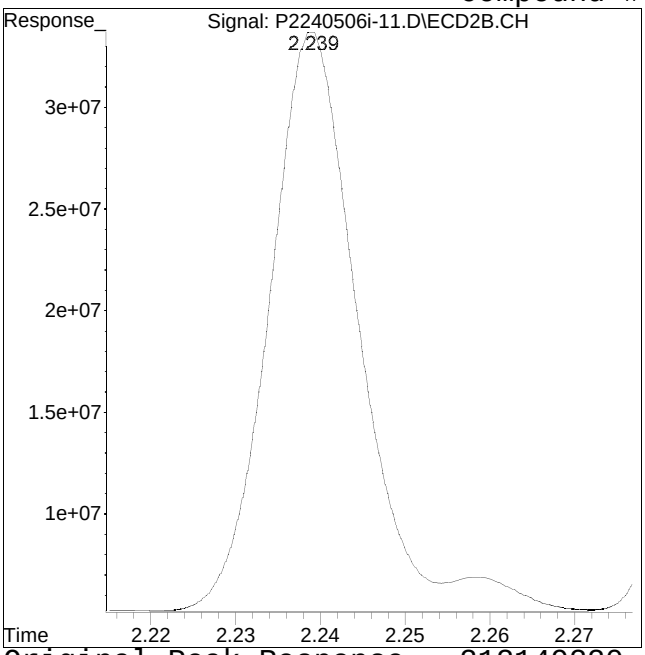


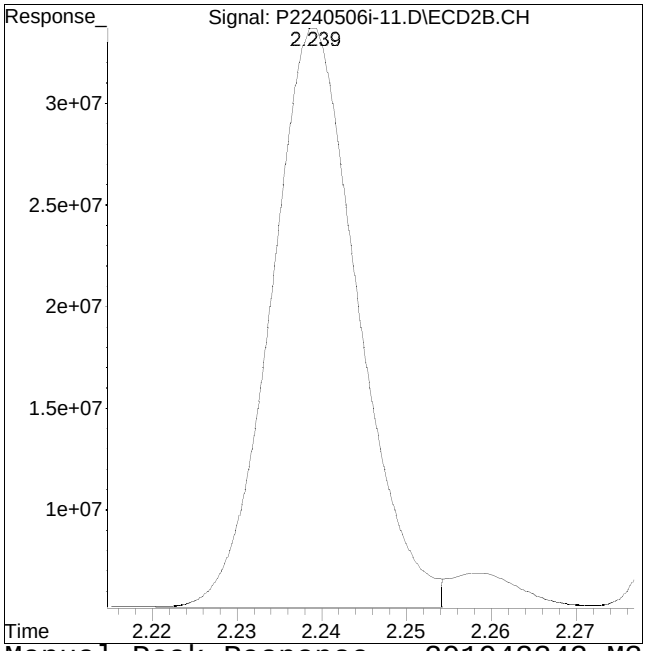
Original Peak Response = 338593394 Manual Peak Response = 325443921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



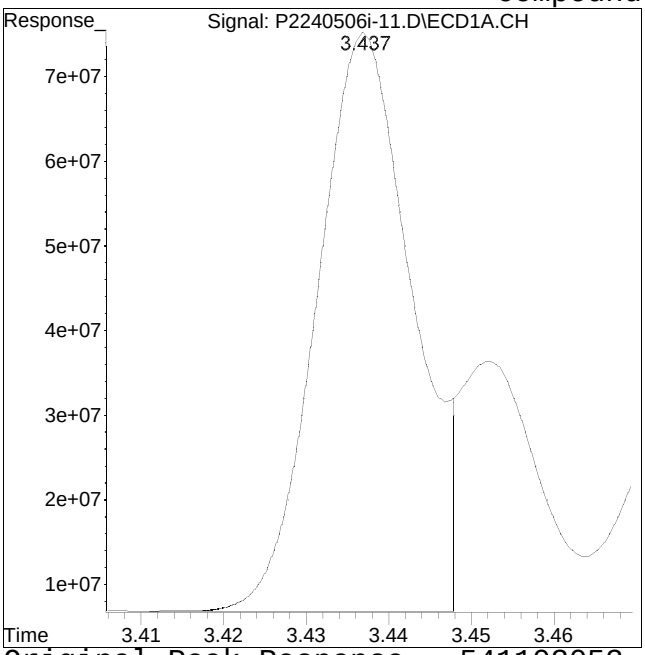


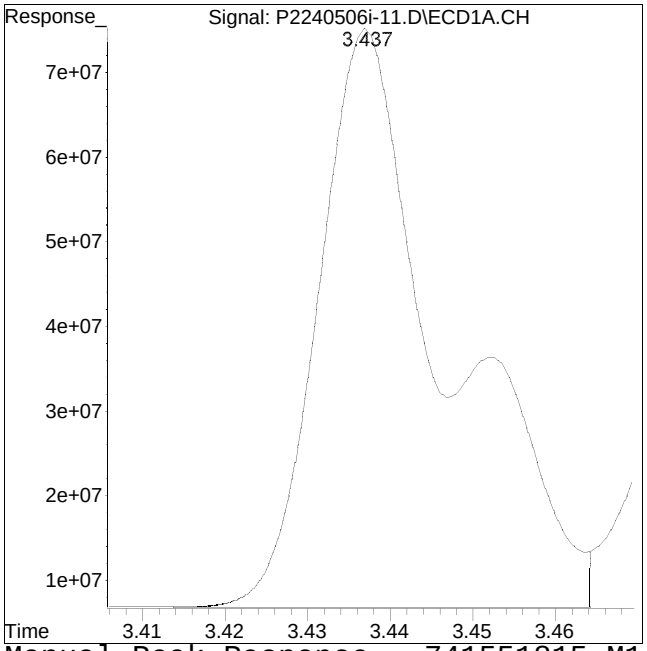
Original Peak Response = 212149220 Manual Peak Response = 201942343 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 541103053 Manual Peak Response = 741551815 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	401.7E6	305.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	1463.5E6	957.9E6	70.673M3	62.850
	Spiked Amount	20.000	Range 30 - 150		Recovery =	353.37%#	314.25%#
3) s	Decachlorobi	4.023	4.535	1761.5E6	817.7E6	42.812	111.103M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	214.06%#	555.51%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	342.3E6	232.3E6	900.980M3	871.969
5) l1	1016-2	1.728	1.978	765.1E6	503.6E6	976.532M1	855.096
6) l1	1016-3	1.917	2.180	1690.8E6	1044.7E6	1038.946M3	900.390
7) l1	1016-4	1.972	2.239	662.4E6	383.2E6	991.931M3	836.439M3
8) l1	1016-5	2.143	2.451	720.0E6	317.8E6	978.184	797.334
Sum	1016-1			4180.7E6	2481.6E6	4886.574	4261.228
Average	1016-1					977.315	852.246
9) l2	1260-1	2.688	3.061	1033.5E6	527.7E6	939.787	721.882
10) l2	1260-2	2.817	3.162	1568.2E6	627.9E6	54.345M3	720.794M4
11) l2	1260-3	3.134	3.555	996.8E6	522.5E6	959.541	744.967M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.290	3.685	2155.4E6	1058.3E6	141.797M3	867.797M4
13) l2	1260-5	3.438	3.887	1531.1E6	741.7E6	212.374	868.512M4
Sum	1260-1			7285.0E6	3478.2E6	N.D.	N.D. D
Average	1260-1					461.569	784.790 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

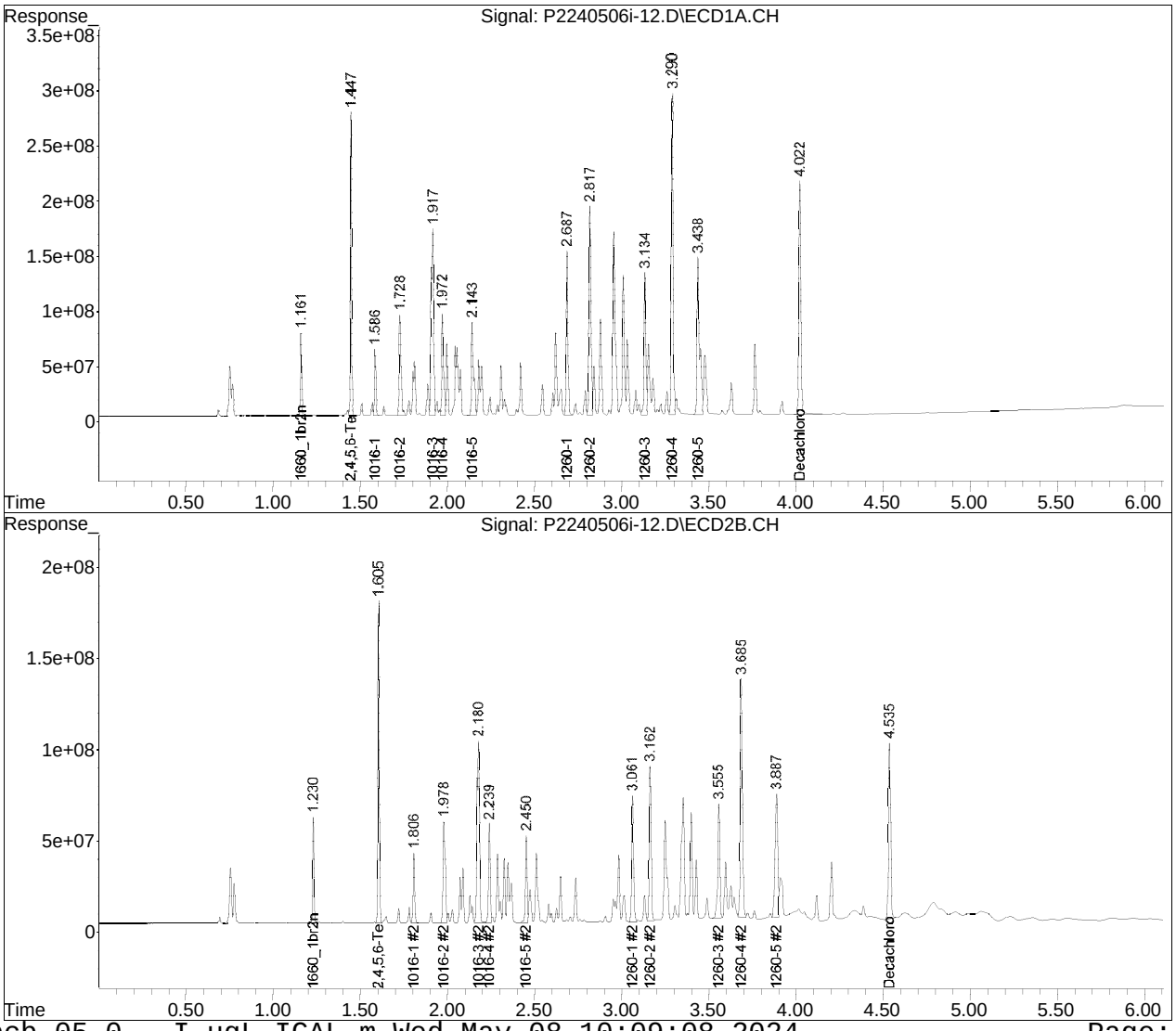
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

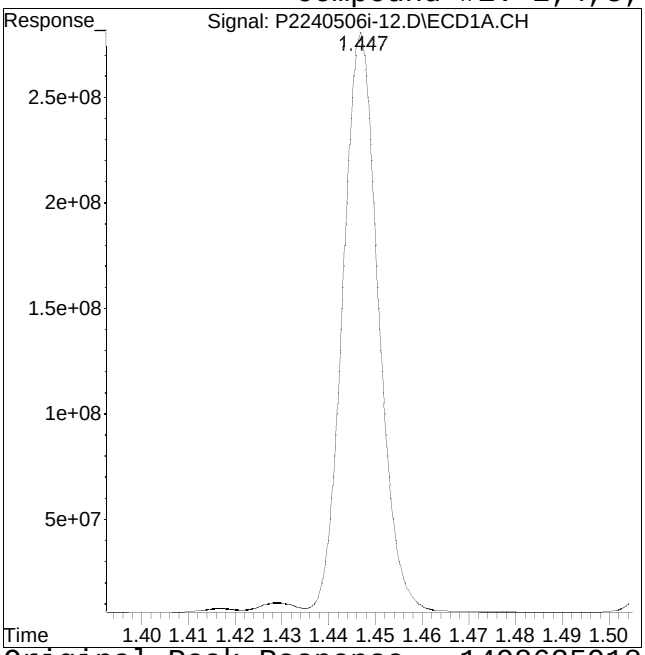
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

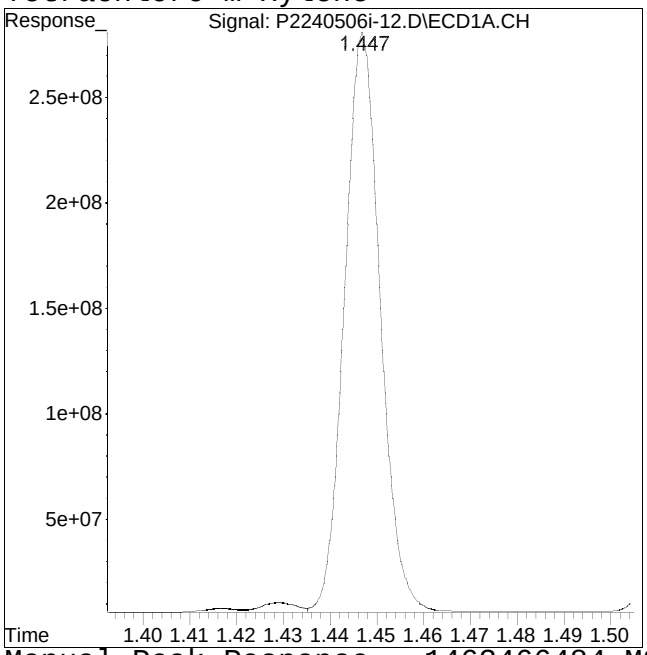


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



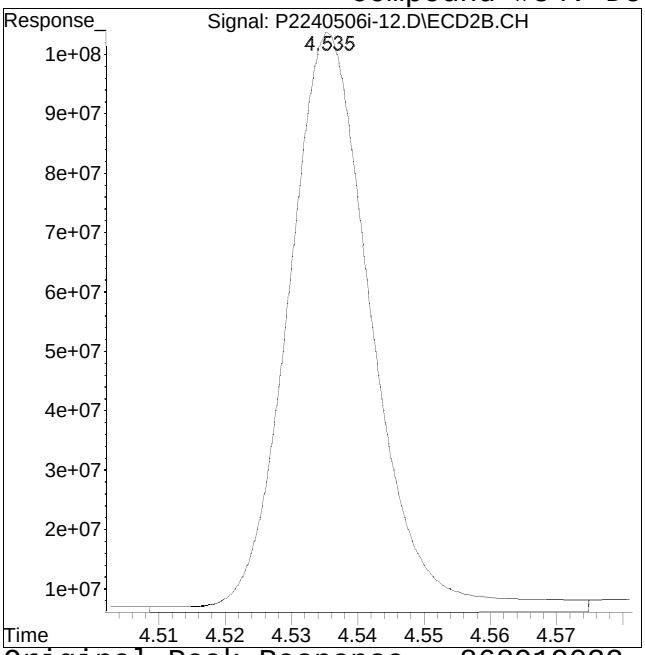


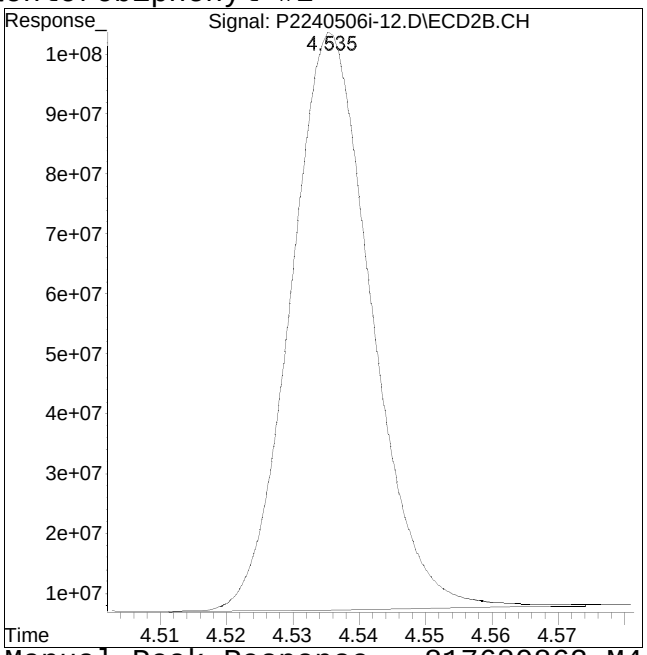
Original Peak Response = 1498625918 Manual Peak Response = 1463466484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #54: Decachlorobiphenyl #2



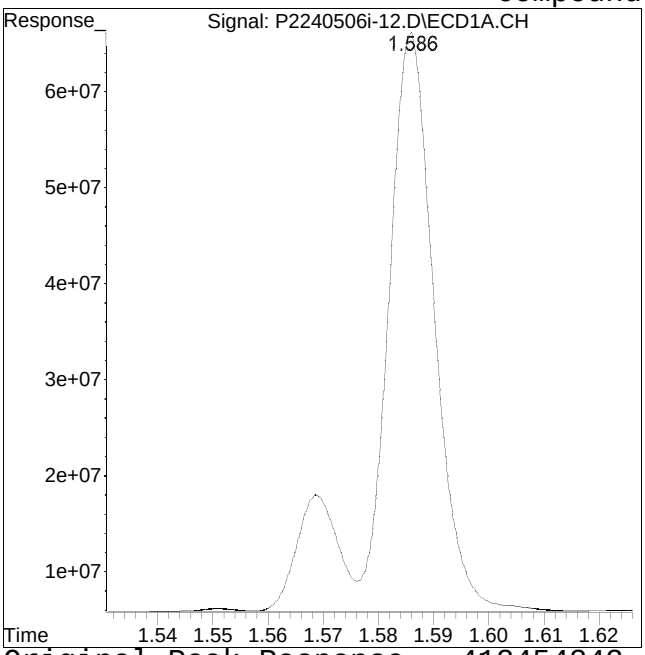


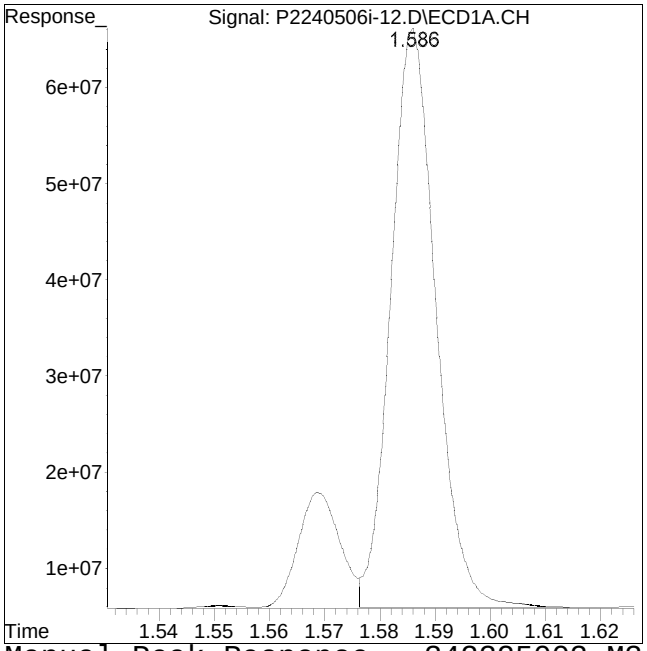
Original Peak Response = 868919032 Manual Peak Response = 817680862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #4: 1016-1



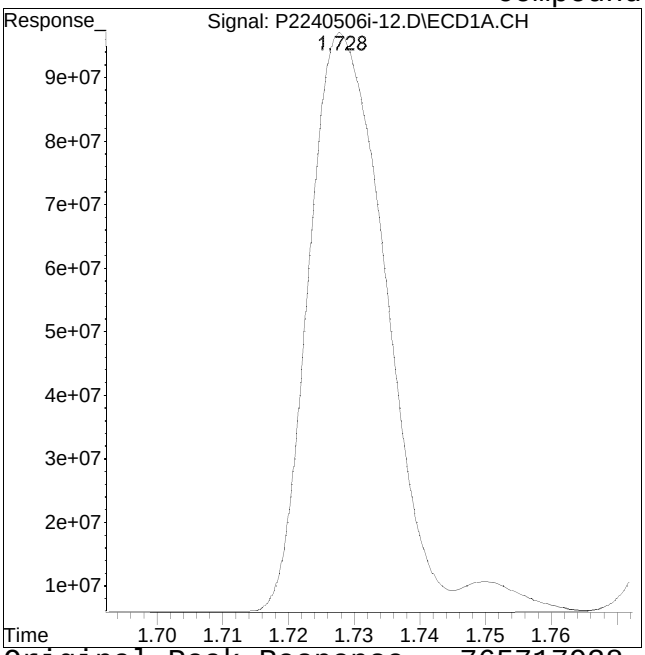


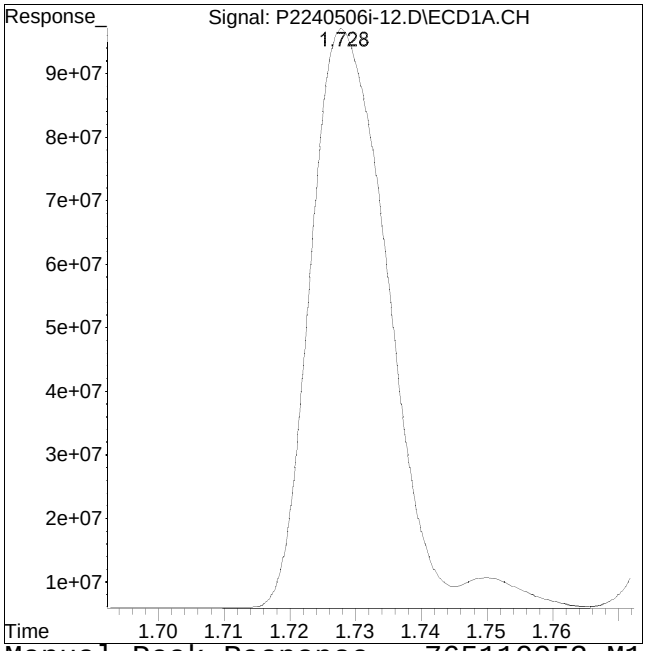
Original Peak Response = 412454242 Manual Peak Response = 342325003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



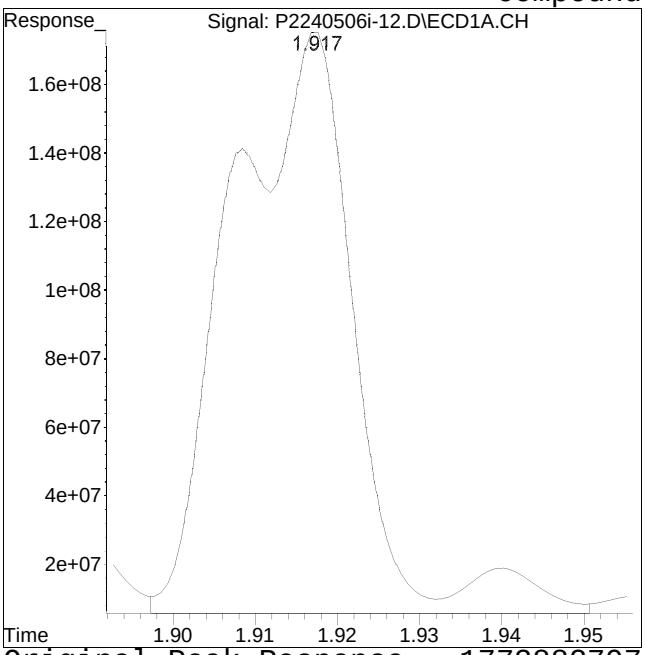


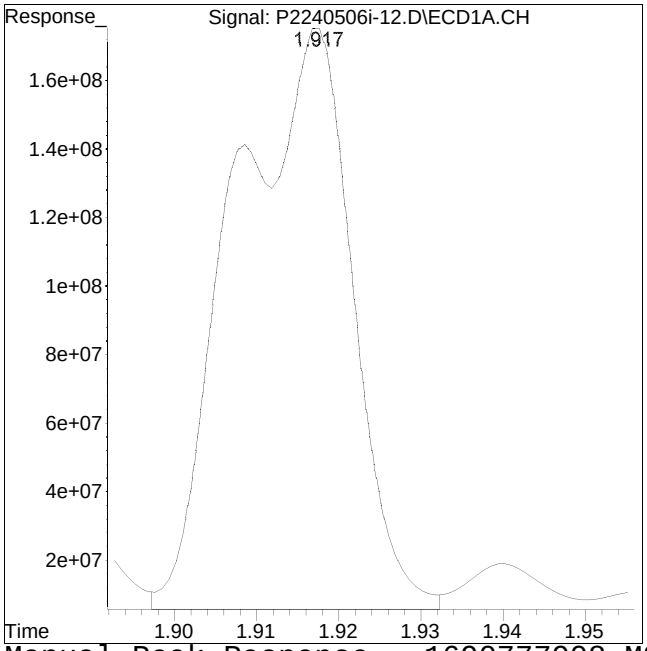
Original Peak Response = 765717938 Manual Peak Response = 765110953 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #6: 1016-3



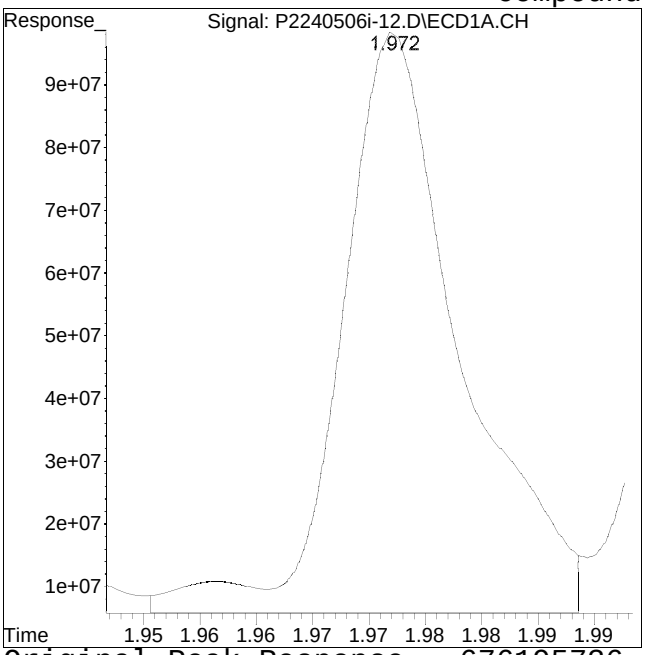


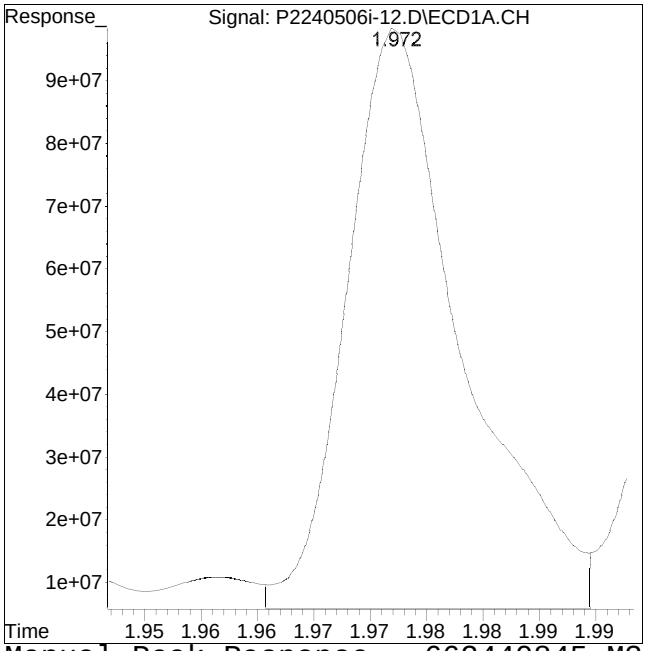
Original Peak Response = 1773882797 Manual Peak Response = 1690777908 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



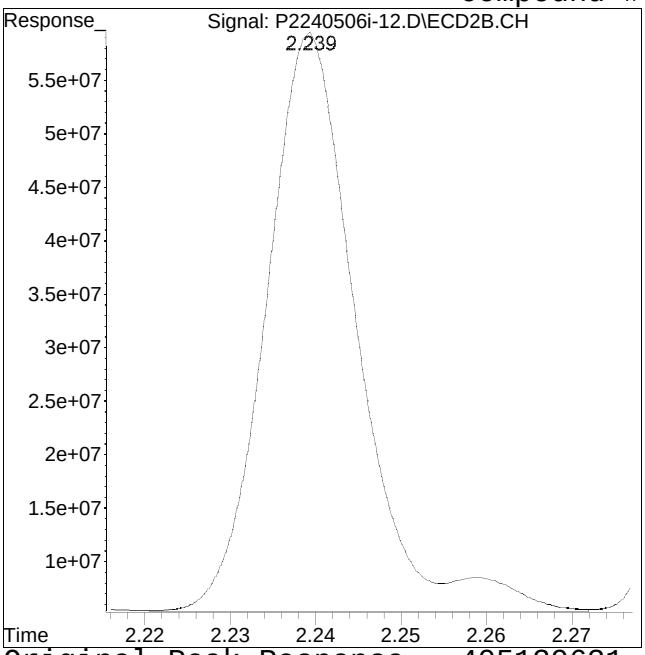


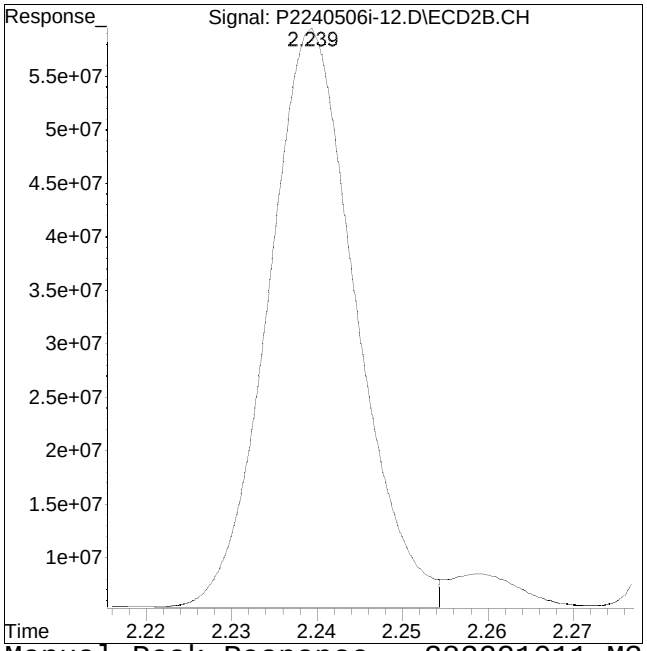
Original Peak Response = 676195736 Manual Peak Response = 662440845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



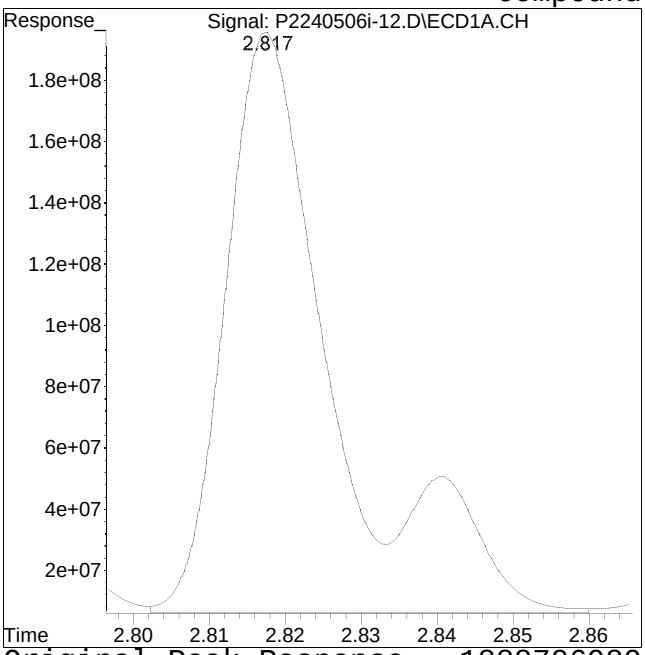


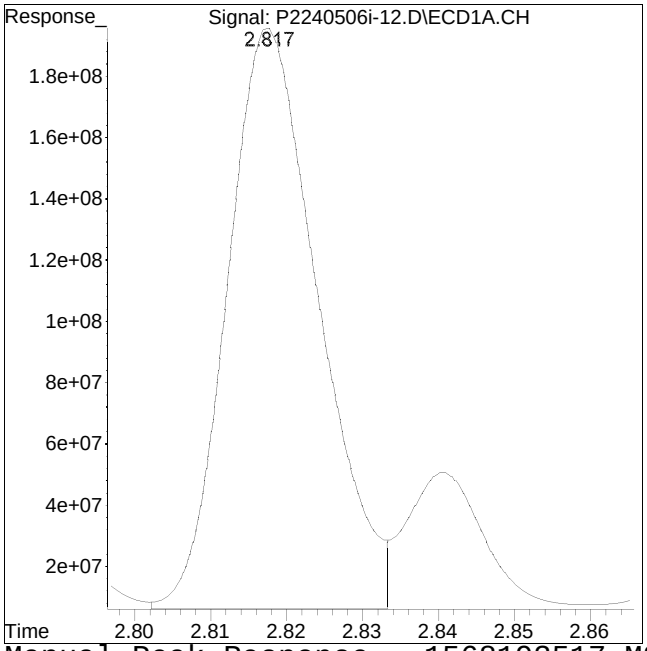
Original Peak Response = 405139631 Manual Peak Response = 383221011 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #10: 1260-2



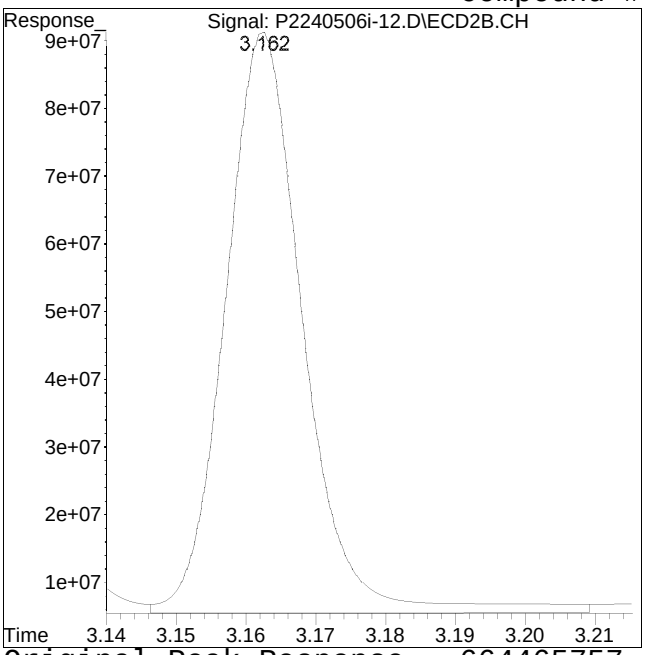


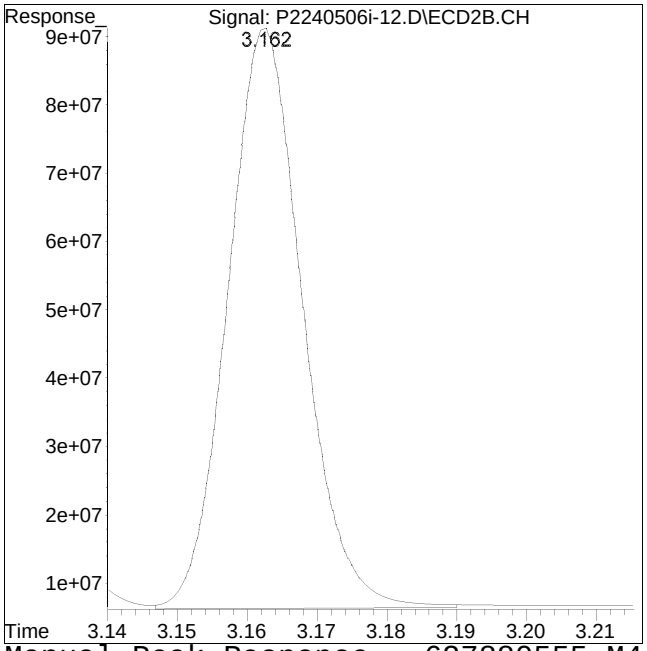
Original Peak Response = 1888706989 Manual Peak Response = 1568193517 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #61: 1260-2 #2



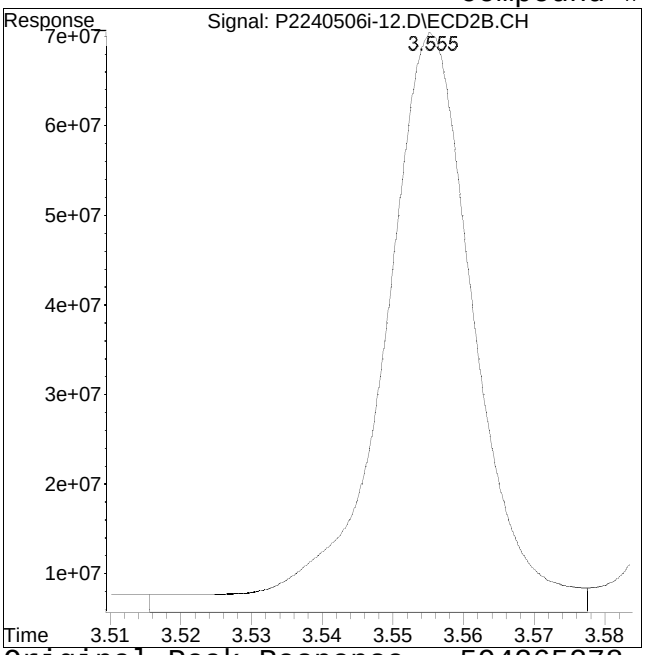


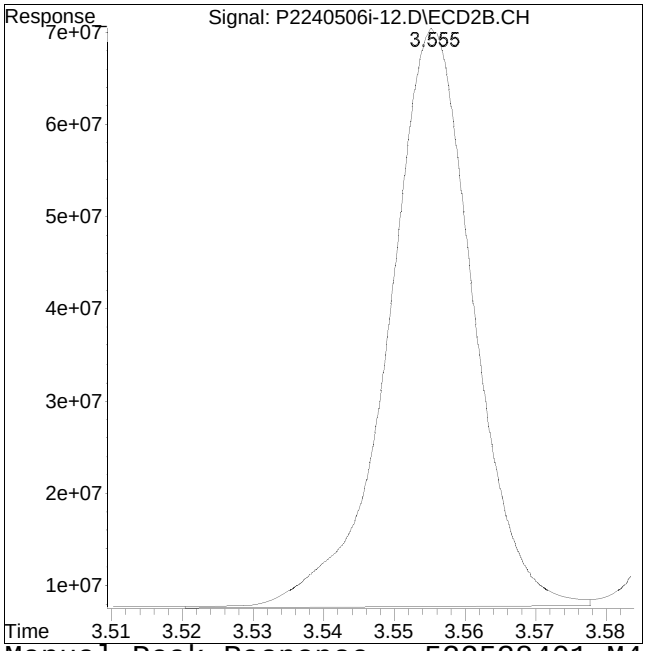
Original Peak Response = 664465757 Manual Peak Response = 627880555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #62: 1260-3 #2



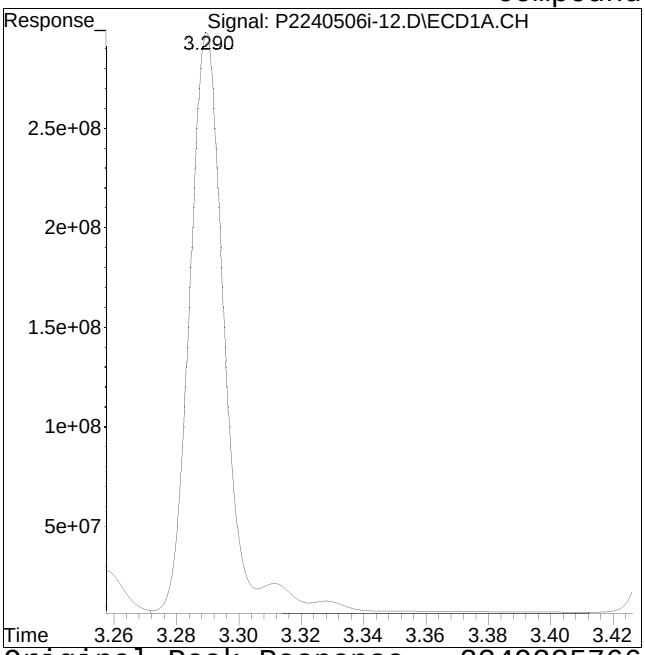


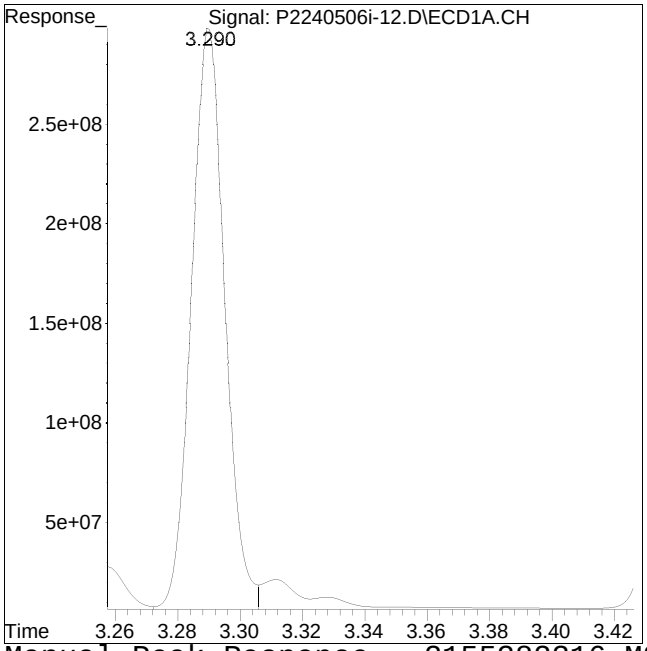
Original Peak Response = 594265278 Manual Peak Response = 522538401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #12: 1260-4



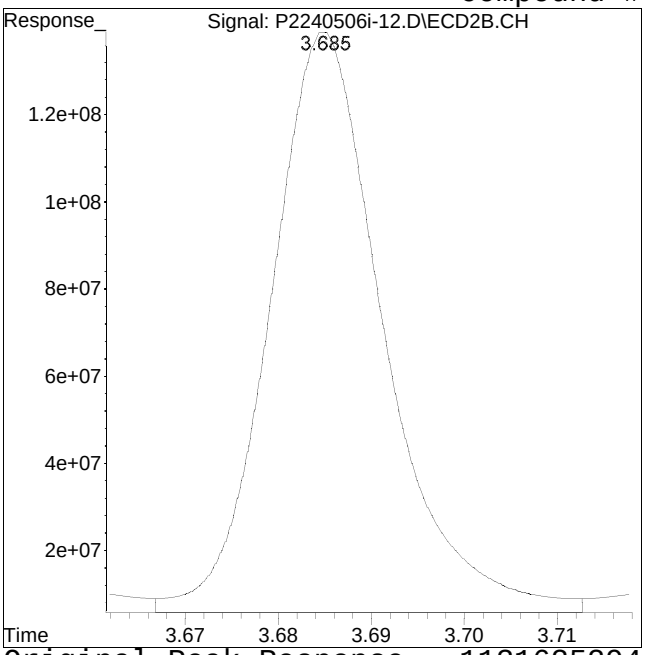


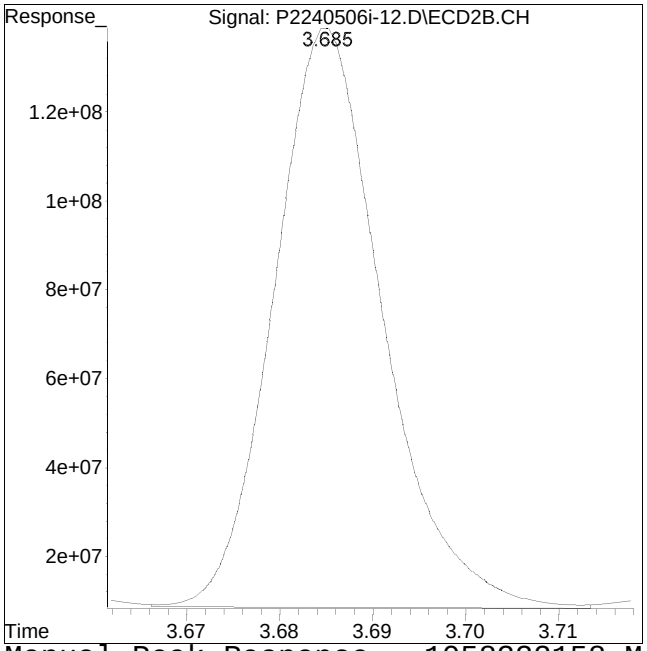
Original Peak Response = 2349235766 Manual Peak Response = 2155382316 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #63: 1260-4 #2



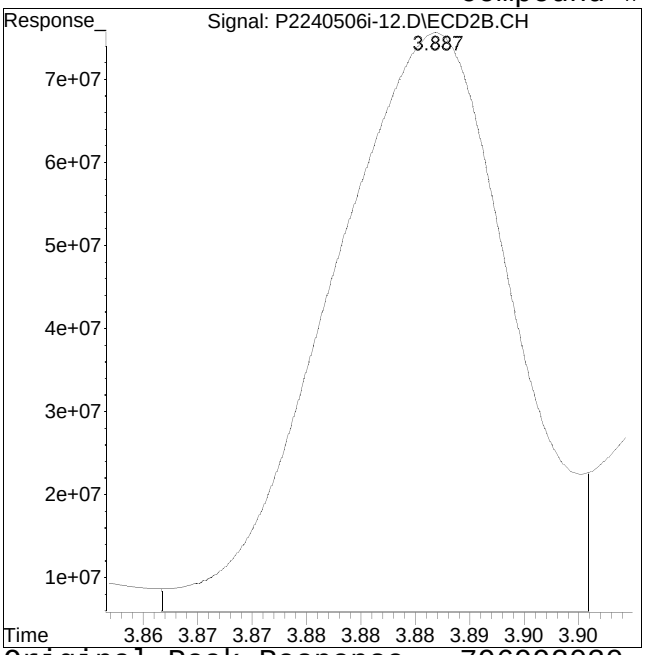


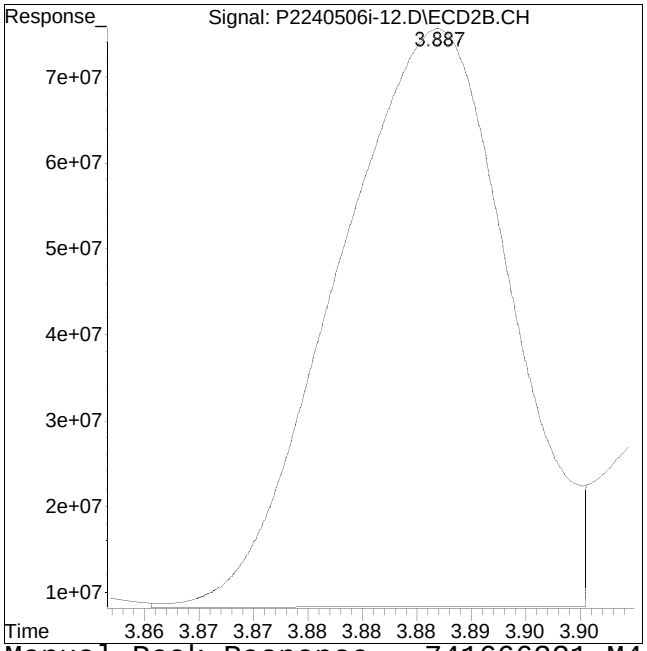
Original Peak Response = 1131625294 Manual Peak Response = 1058332158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 796992030 Manual Peak Response = 741666321 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	90	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.427	-8.8	78	0.00
3	s	Decachlorobiphenyl		0.847	1.620	-91.3#	142	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	99	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
24	l6	1242-1		0.019	0.020	-5.3	108	0.00
25	l6	1242-2		0.040	0.044	-10.0	109	0.00
26	l6	1242-3		0.087	0.093	-6.9	108	0.00
27	l6	1242-4		0.035	0.037	-5.7	108	0.00
28	l6	1242-5		0.027	0.030	-11.1	113	0.00
29	l9	1268-1		0.181	0.210	-16.0	117	0.00
30	l9	1268-2		0.167	0.189	-13.2	114	0.00
31	l9	1268-3		0.133	0.140	-5.3	106	0.00
32	l9	1268-4		0.058	0.060	-3.4	103	0.00
33	l9	1268-5		0.392	0.394	-0.5	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.312	-6.5	79	0.00
3	s	Decachlorobiphenyl		0.580	1.038	-79.0#	141	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
24	l6	1242-1		0.017	0.018	-5.9	110	0.00
25	l6	1242-2		0.038	0.042	-10.5	114	0.00
26	l6	1242-3		0.073	0.081	-11.0	116	0.00
27	l6	1242-4		0.029	0.033	-13.8	116	0.00
28	l6	1242-5		0.022	0.024	-9.1	114	0.00
29	l9	1268-1		0.119	0.148	-24.4#	130	0.00
30	l9	1268-2		0.110	0.132	-20.0#	124	0.00
31	l9	1268-3		0.090	0.100	-11.1	115	0.00
32	l9	1268-4		0.039	0.044	-12.8	117	0.00
33	l9	1268-5		0.245	0.259	-5.7	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
14) i	2154_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	344.8E6	241.7E6	17.413M3	17.048
	Spiked Amount	20.000	Range 30 - 150		Recovery =	87.06%	85.24%
3) s	Decachlorobi	4.022	4.535	783.1E6	382.4E6	61.211	57.275
	Spiked Amount	20.000	Range 30 - 150		Recovery =	306.06%#	286.38%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.586	1.807	75468361	53100596	267.907	264.555
25) l6	1242-2	1.728	1.978	164.8E6	119.6E6	271.401	273.942
26) l6	1242-3	1.917	2.179	351.7E6	233.7E6	268.799	279.373
27) l6	1242-4	1.972	2.239	140.3E6	93849056	267.894M3	278.888
28) l6	1242-5	2.325	2.626	114.8E6	68908851	281.749	274.508
Sum	1242-1			847.0E6	569.2E6	1357.749	1371.266
Average	1242-1					271.550	274.253
29) l9	1268-1	3.453	3.880	794.0E6	427.1E6	291.052	312.719M4
30) l9	1268-2	3.474	3.906	715.4E6	378.4E6	284.372	299.523M4
31) l9	1268-3	3.576	4.048	529.1E6	286.9E6	263.733	277.288M4
32) l9	1268-4	3.764	4.201	225.4E6	126.4E6	255.990	281.014M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	3.918	4.386	1486.1E6	746.4E6	250.706	264.852M4
Sum	1268-1			3750.0E6	1965.2E6	1345.852	1435.397
Average	1268-1					269.170	287.079
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

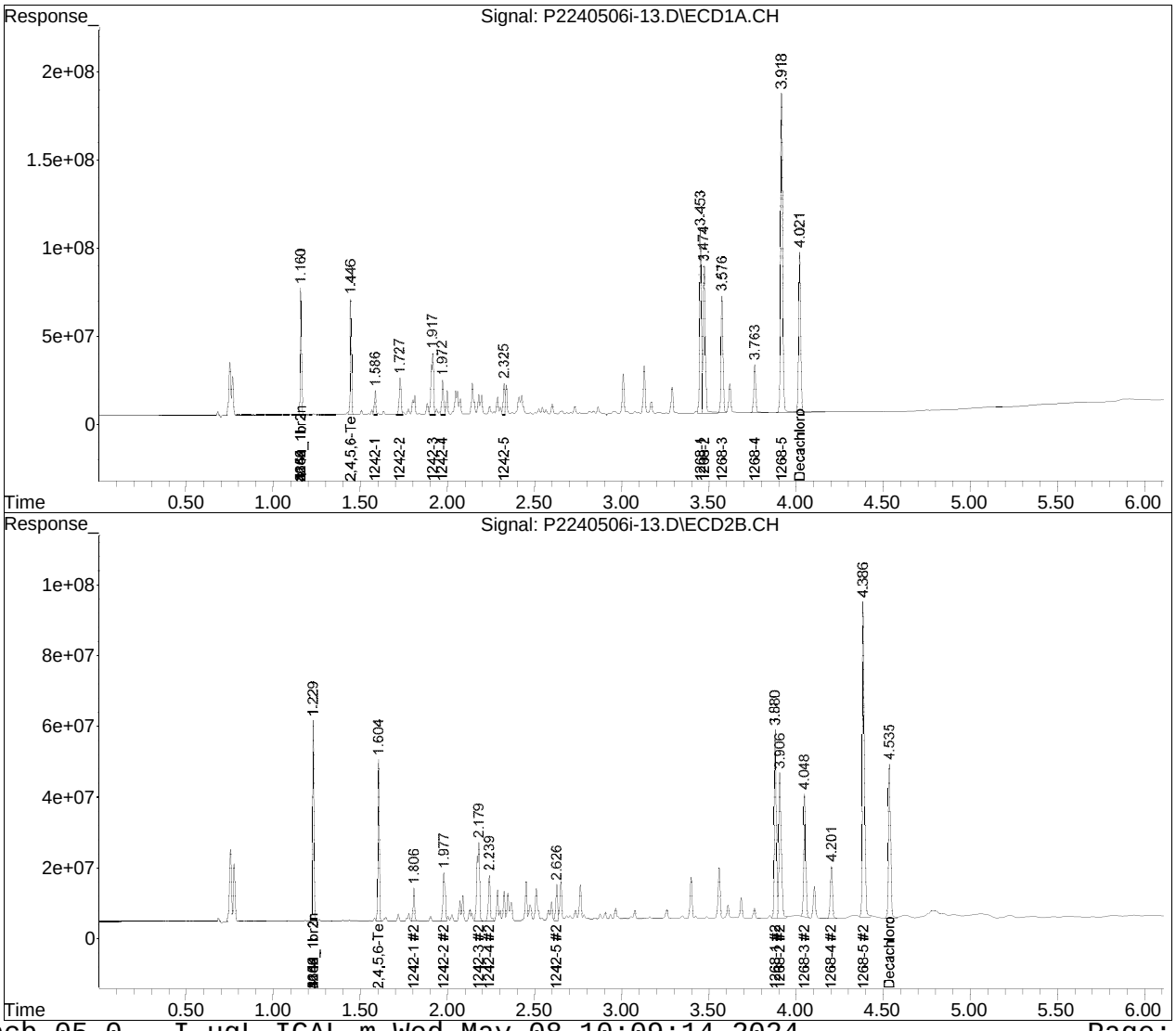
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

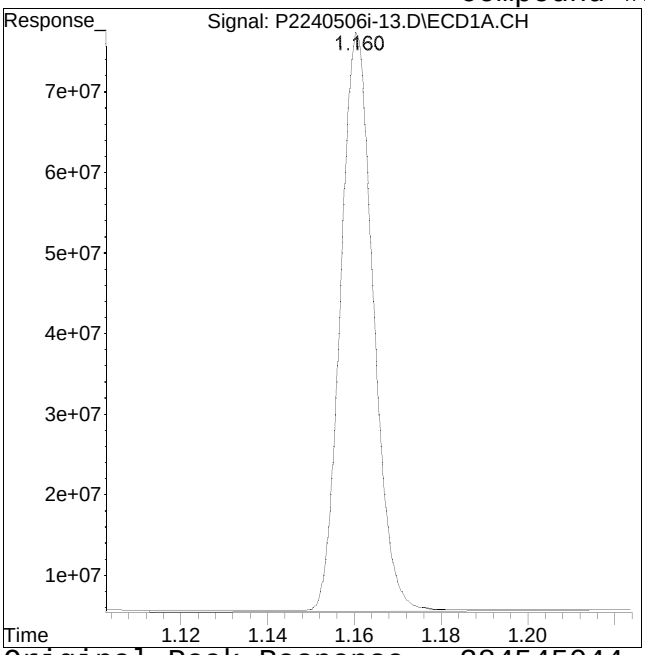
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

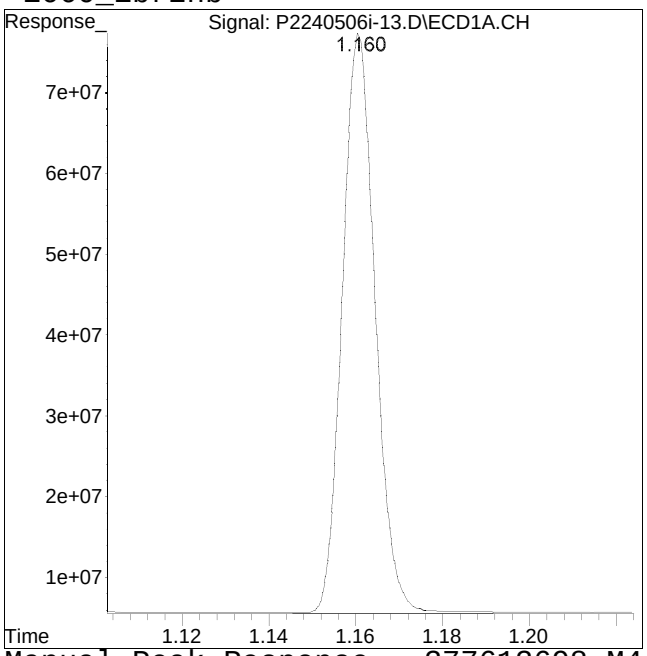


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #1: 1660_1br2nb



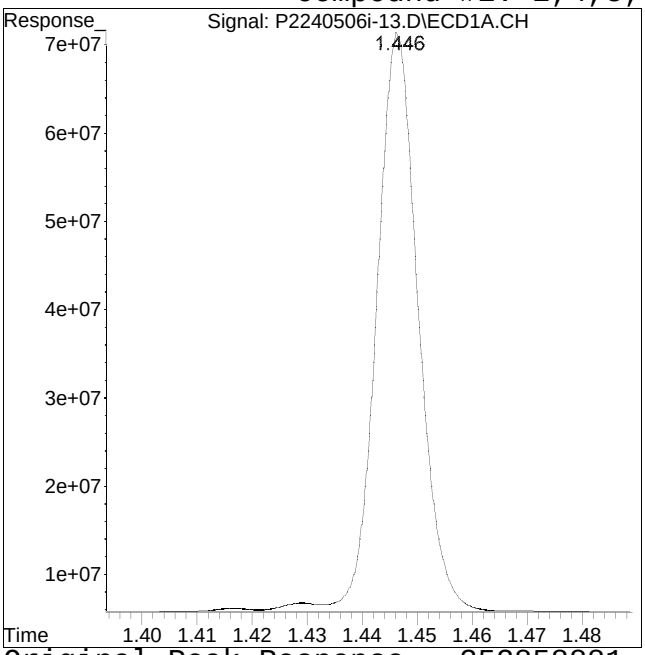


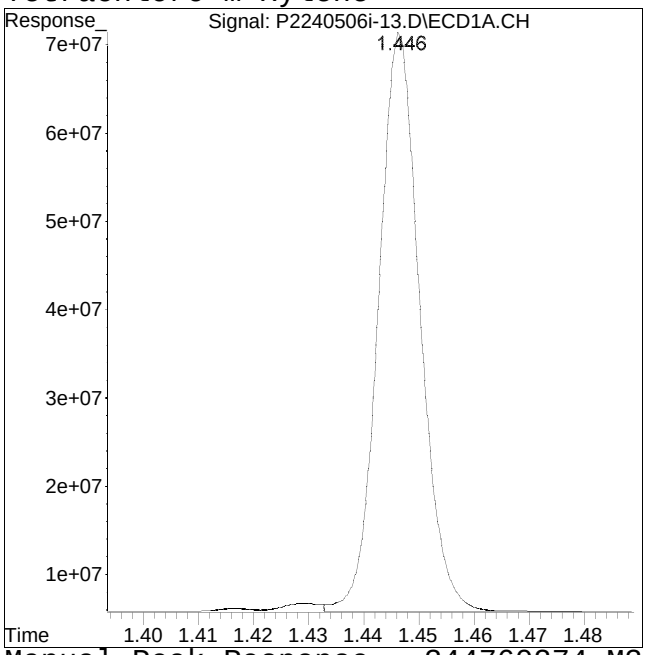
Original Peak Response = 384545044 Manual Peak Response = 377613698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



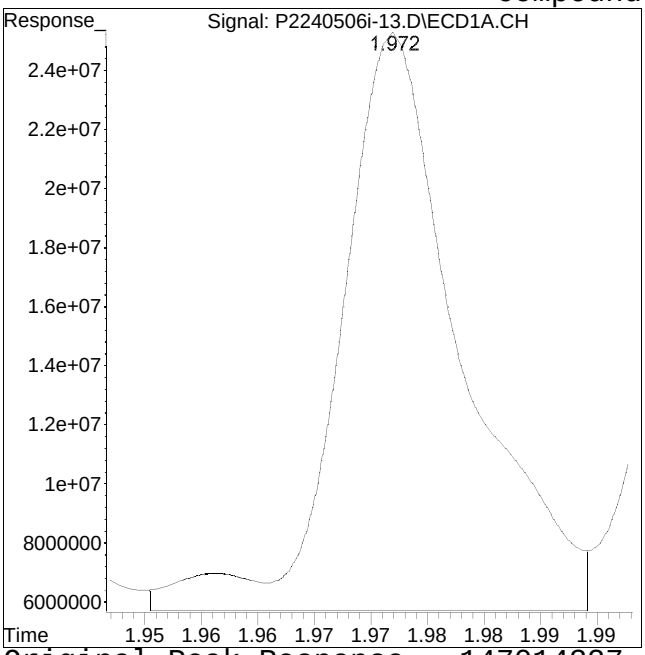


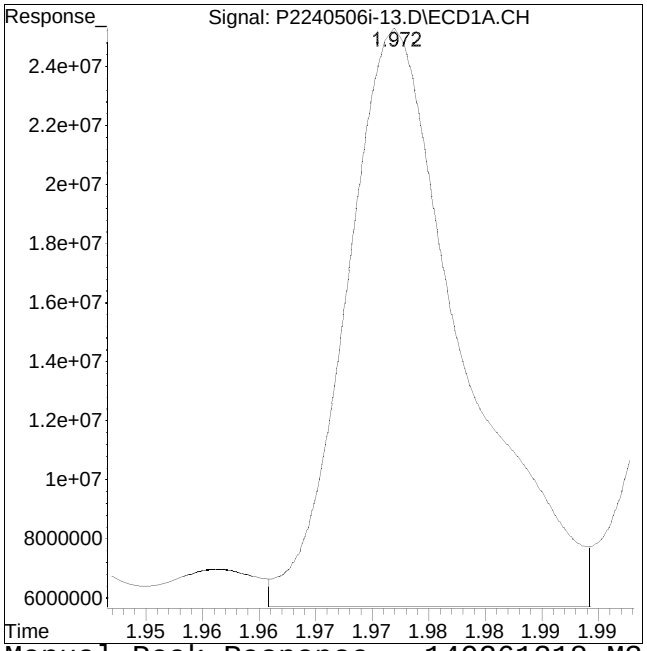
Original Peak Response = 352858881 Manual Peak Response = 344760274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #27: 1242-4



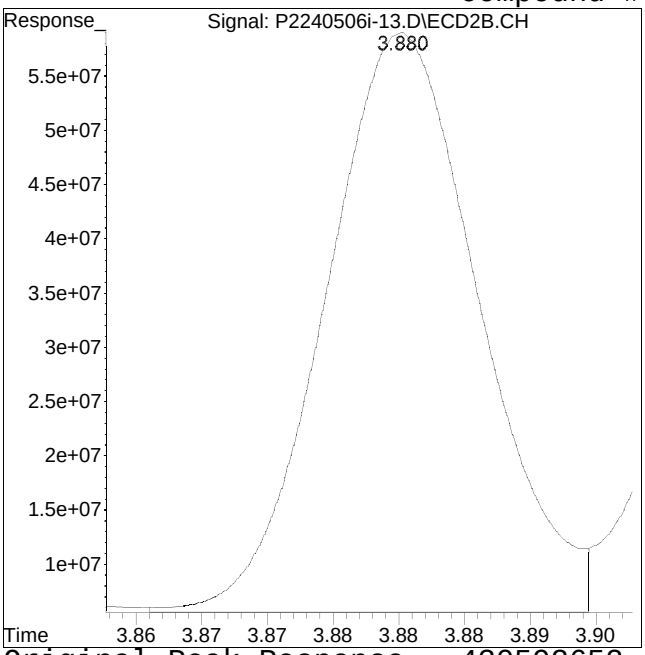


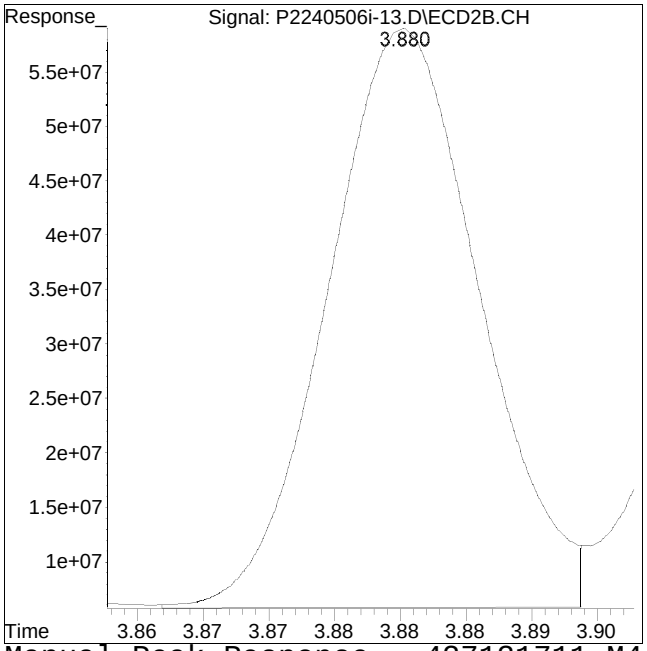
Original Peak Response = 147014327 Manual Peak Response = 140261218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #80: 1268-1 #2



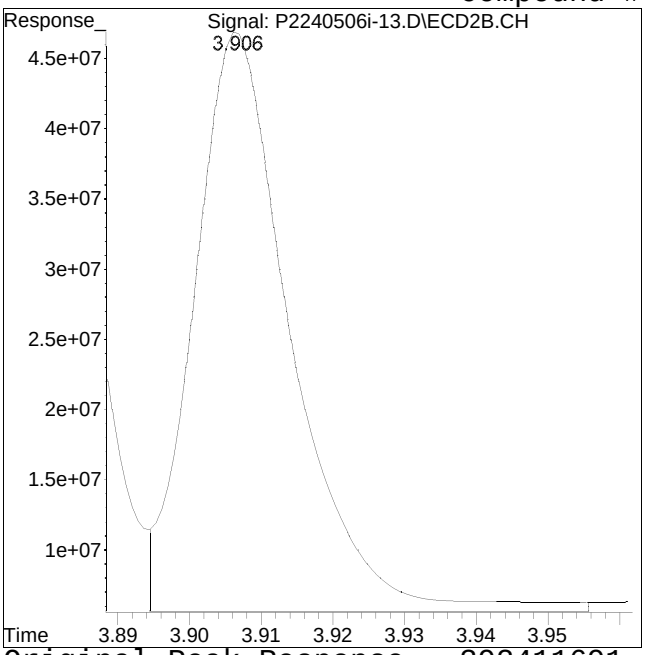


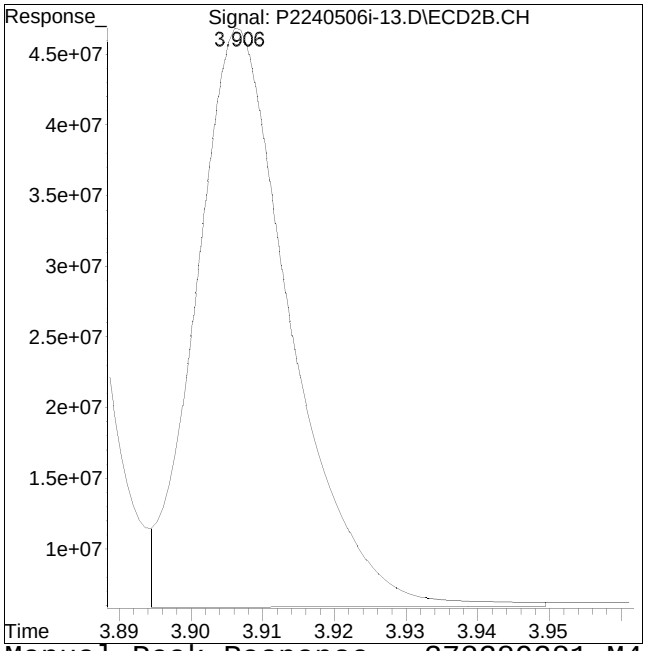
Original Peak Response = 430592652 Manual Peak Response = 427131711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #81: 1268-2 #2



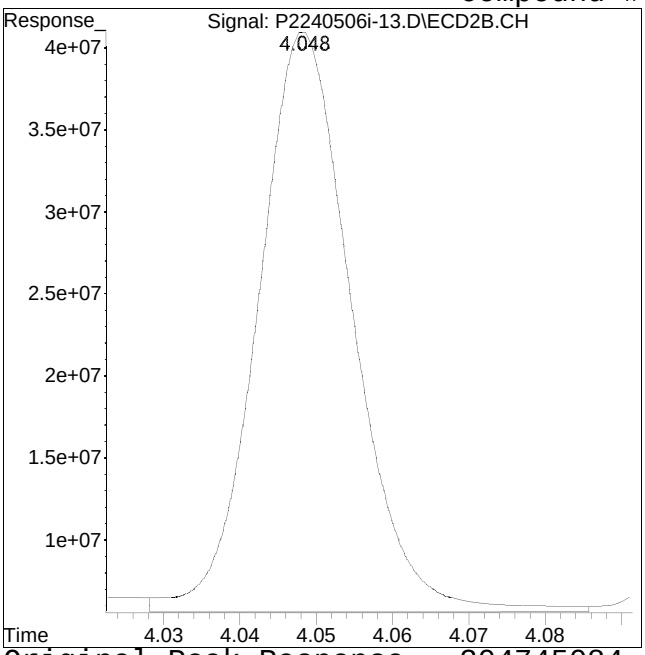


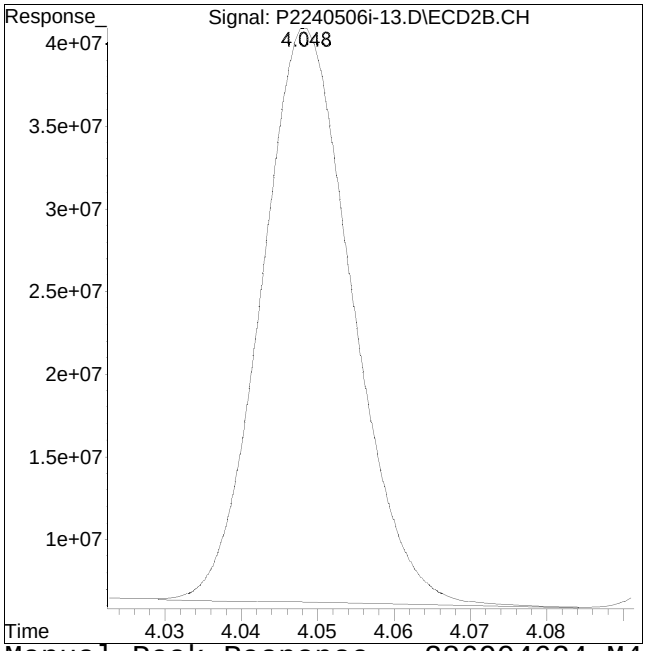
Original Peak Response = 392411691 Manual Peak Response = 378389281 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #82: 1268-3 #2



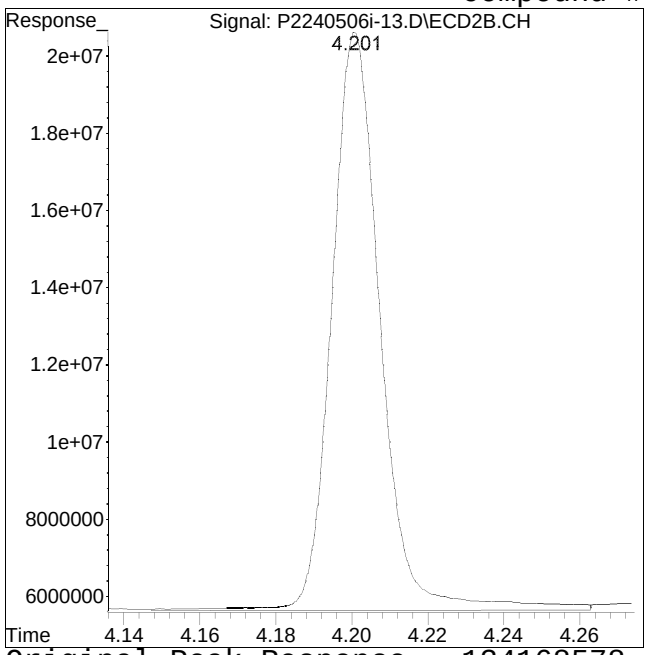


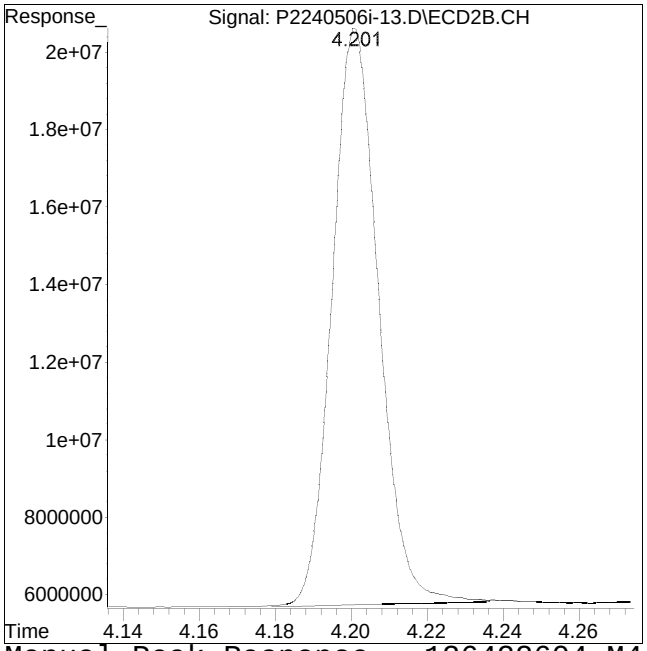
Original Peak Response = 304745084 Manual Peak Response = 286904624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #83: 1268-4 #2



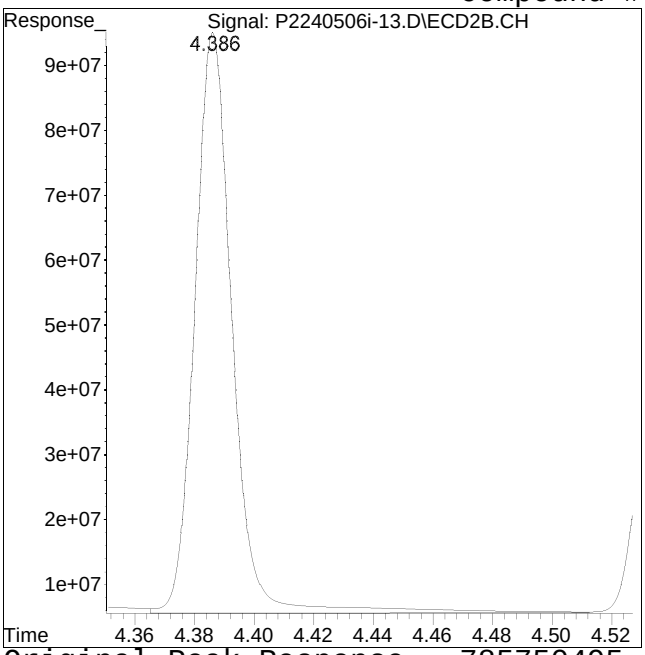


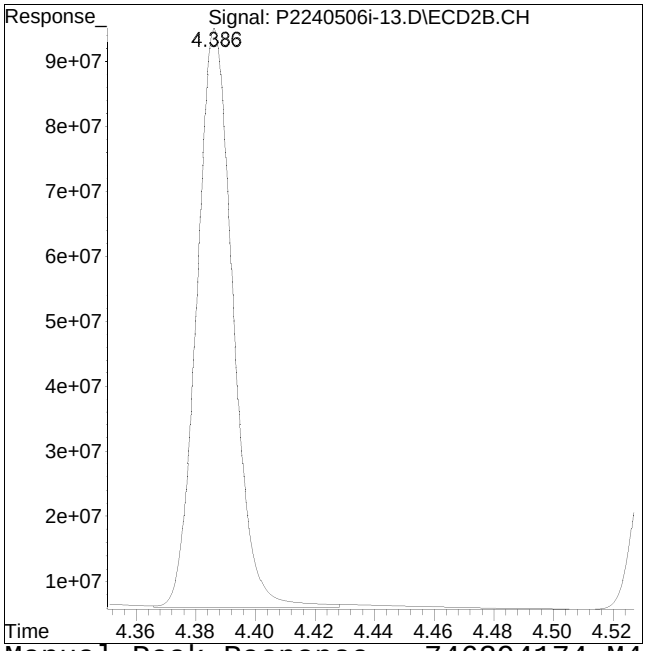
Original Peak Response = 134168578 Manual Peak Response = 126422604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #84: 1268-5 #2





Original Peak Response = 785750495 Manual Peak Response = 746394174 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	86	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.359	-3.7	71	0.00
3	s	Decachlorobiphenyl		0.847	0.985	-16.3	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	95	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	91	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.026	0.028	-7.7	101	0.00
42	l5	1232-2		0.024	0.023	4.2	91	0.00
43	l5	1232-3		0.050	0.048	4.0	91	0.00
44	l5	1232-4		0.020	0.020	0.0	93	0.00
45	l5	1232-5		0.015	0.014	6.7	92	0.00
46	l8	1262-1		0.070	0.072	-2.9	97	0.00
47	l8	1262-2		0.091	0.091	0.0	95	0.00
48	l8	1262-3		0.079	0.078	1.3	94	0.00
49	l8	1262-4		0.160	0.154	3.8	91	0.00
50	l8	1262-5		0.050	0.049	2.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.231	0.1	73	0.00
3	s	Decachlorobiphenyl		0.580	0.649	-11.9	86	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.025	0.026	-4.0	108	0.00
42	l5	1232-2		0.025	0.024	4.0	100	0.00
43	l5	1232-3		0.045	0.043	4.4	99	0.00
44	l5	1232-4		0.018	0.017	5.6	100	0.00
45	l5	1232-5		0.013	0.011	15.4	91	0.00
46	l8	1262-1		0.049	0.047	4.1	99	0.00
47	l8	1262-2		0.065	0.062	4.6	99	0.00
48	l8	1262-3		0.059	0.057	3.4	100	0.00
49	l8	1262-4		0.110	0.105	4.5	99	0.00
50	l8	1262-5		0.039	0.039	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1	0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2	0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3	0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4	0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5	0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
14) i	2154_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	313.7E6	221.8E6	16.592M3	15.985
	Spiked Amount	20.000	Range 30 - 150		Recovery =	82.96%	79.92%
3) s	Decachlorobi	4.023	4.536	454.7E6	233.8E6	37.216	35.778
	Spiked Amount	20.000	Range 30 - 150		Recovery =	186.08%#	178.89%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.587	1.806	100.3E6	72884282	266.130	260.213M4
42) l5	1232-2	1.729	1.978	82707706	67314394	238.896	241.942
43) l5	1232-3	1.918	2.180	173.9E6	120.8E6	240.092	239.618
44) l5	1232-4	1.973	2.240	71566461	48899768	243.151	239.904
45) l5	1232-5	2.327	2.627	51913229	32015172	240.426	218.810
Sum	1232-1			480.3E6	341.9E6	1228.696	1200.487
Average	1232-1					245.739	240.097
46) l8	1262-1	2.818	3.163	258.8E6	131.1E6	254.785	239.557
47) l8	1262-2	3.010	3.397	327.2E6	174.2E6	250.297	237.637
48) l8	1262-3	3.134	3.556	281.9E6	159.6E6	246.303	240.220
49) l8	1262-4	3.290	3.685	554.6E6	296.5E6	240.099	239.507
50) l8	1262-5	3.765	4.202	176.8E6	109.5E6	246.126M4	250.504
Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

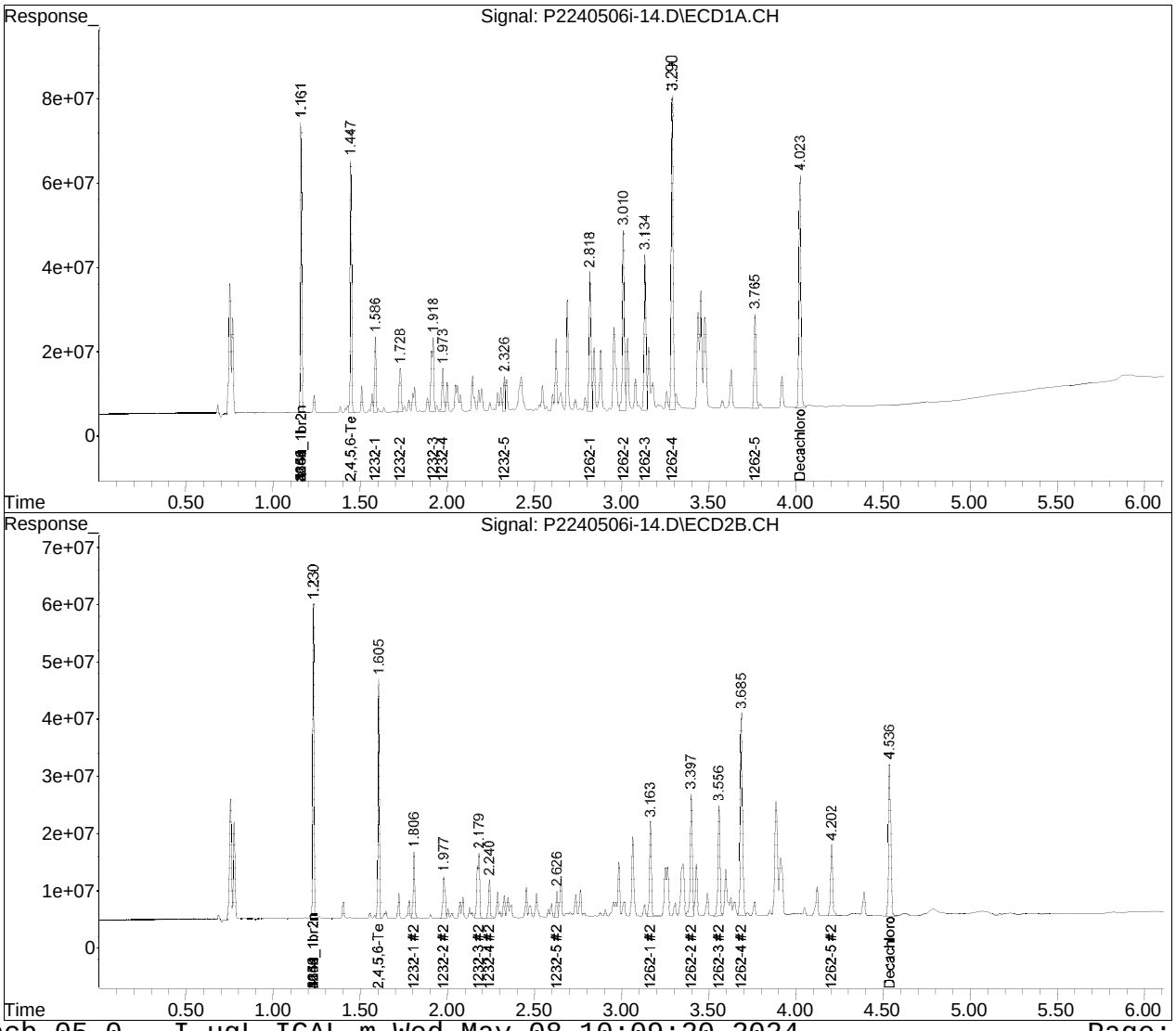
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

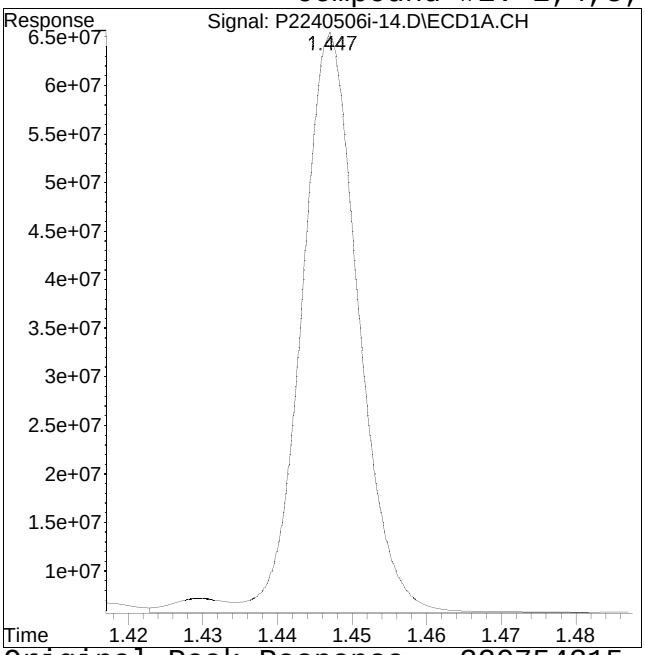
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

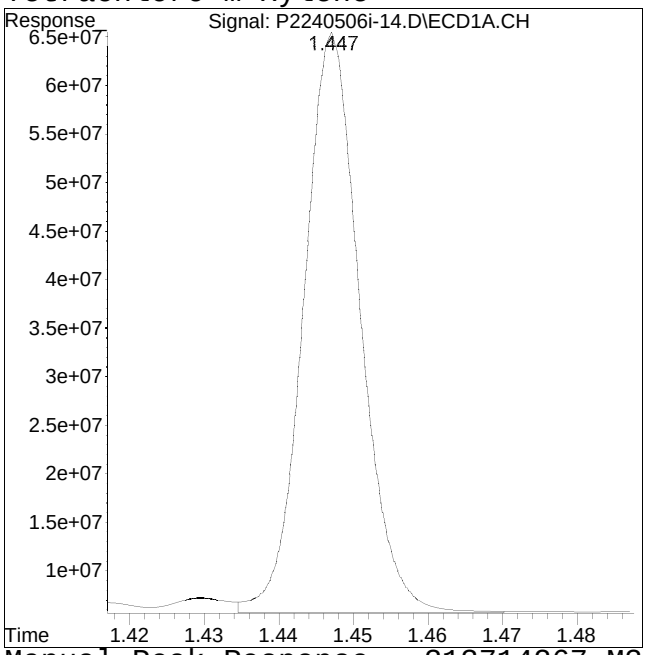


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



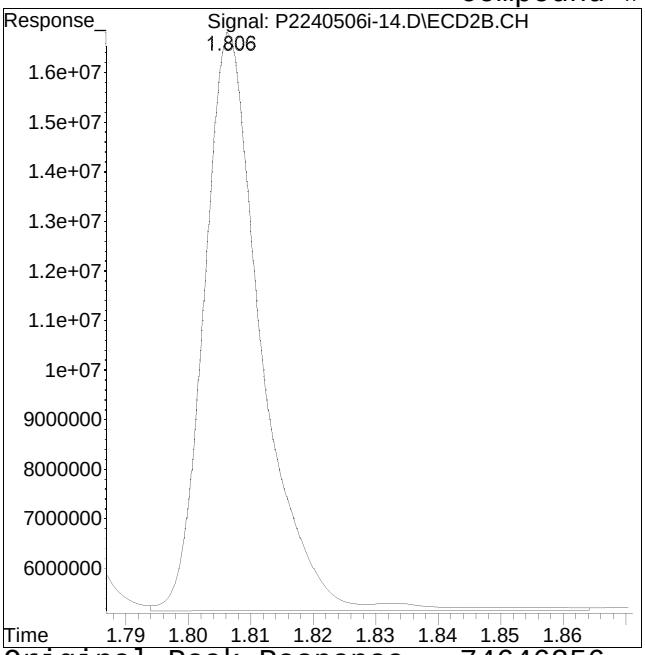


Original Peak Response = 320754315 Manual Peak Response = 313714267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

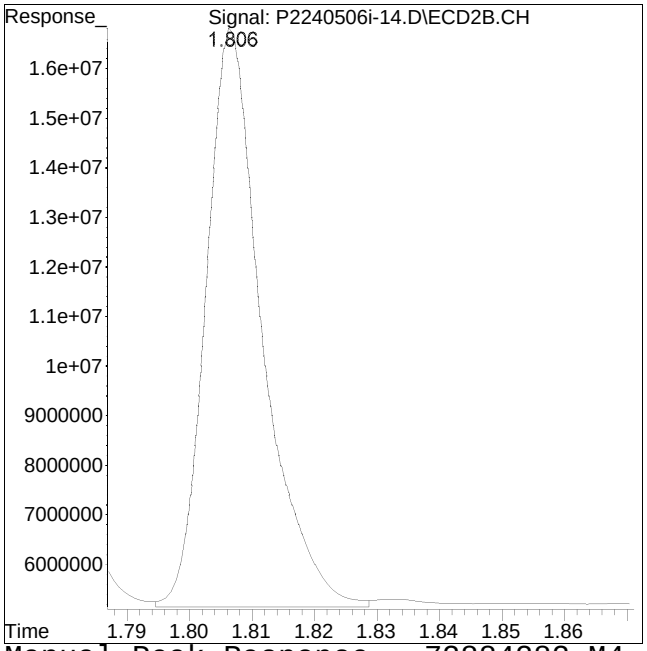
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #92: 1232-1 #2



Original Peak Response = 74646256



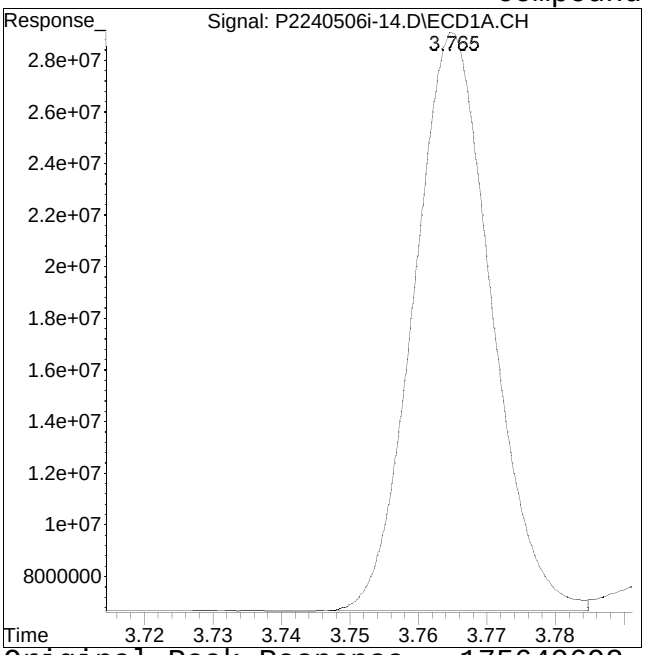
Manual Peak Response = 72884282 M4

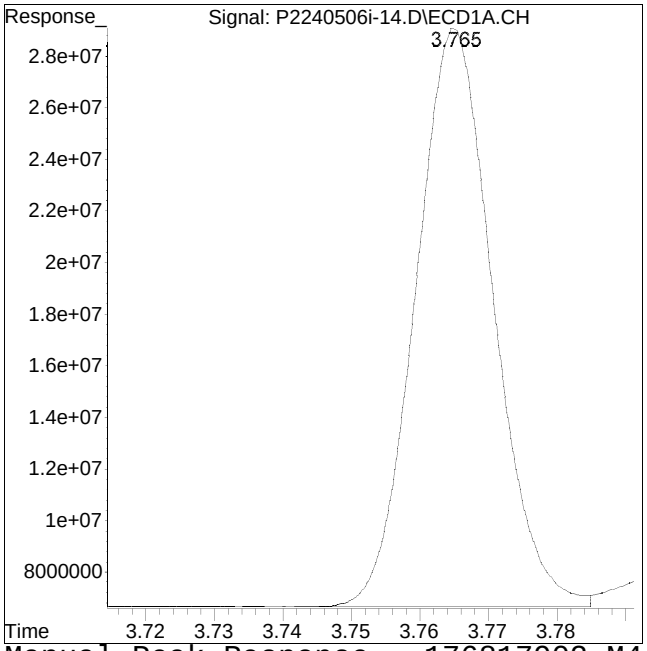
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #50: 1262-5





Original Peak Response = 175649692 Manual Peak Response = 176817902 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.298	1.0	74	0.00
3	s	Decachlorobiphenyl		0.847	0.986	-16.4	90	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.057	0.060	-5.3	105	0.01
36	l7	1248-2		0.074	0.065	12.2	89	0.00
37	l7	1248-3		0.065	0.059	9.2	90	0.00
38	l7	1248-4		0.058	0.052	10.3	90	0.00
39	l7	1248-5		0.050	0.051	-2.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.222	0.8	75	0.00
3	s	Decachlorobiphenyl		0.580	0.675	-16.4	93	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.056	-7.7	109	0.01
36	l7	1248-2		0.034	0.032	5.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.043	0.040	7.0	92	0.00
38	l7	1248-4		0.048	0.044	8.3	92	0.00
39	l7	1248-5		0.054	0.052	3.7	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
14) i	2154_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
23) i	4268_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
34) i	1248_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
40) i	3262_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	327.8E6	228.4E6	15.843	15.872
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.22%	79.36%
3) s	Decachlorobi	4.022	4.537	498.3E6	252.5E6	37.269	37.259
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.34%#	186.30%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.918	2.179	237.0E6	165.0E6	263.140	271.725
36) l7	1248-2	2.047	2.325	258.1E6	92555766	222.123M1	230.259
37) l7	1248-3	2.144	2.451	232.7E6	115.4E6	226.522	228.395
38) l7	1248-4	2.326	2.626	206.5E6	127.5E6	225.373	229.278
39) l7	1248-5	2.339	2.650	201.3E6	150.8E6	253.464	237.742

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			1135.7E6	651.2E6	1190.621	1197.399
Average	1248-1					238.124	239.480
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

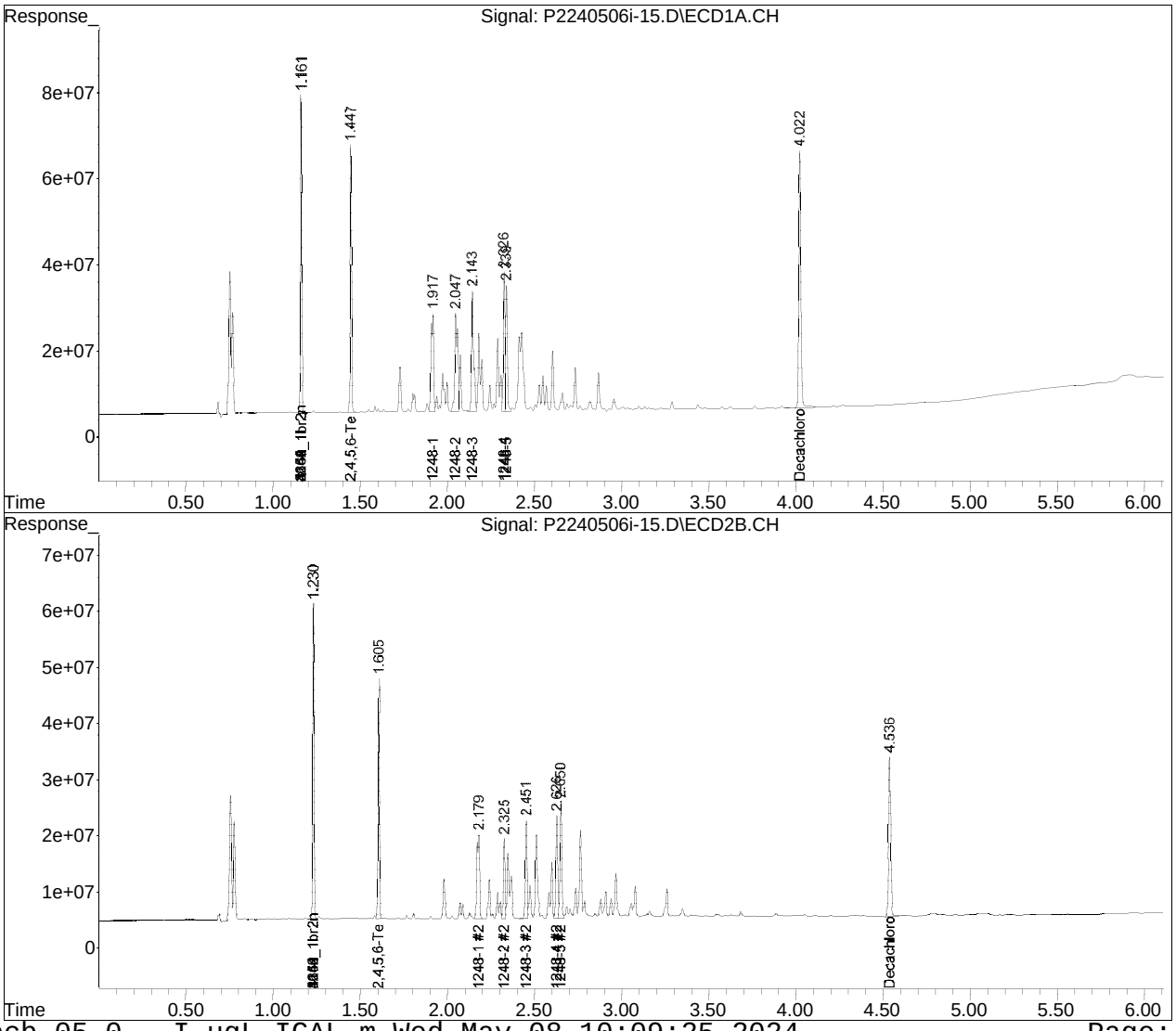
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

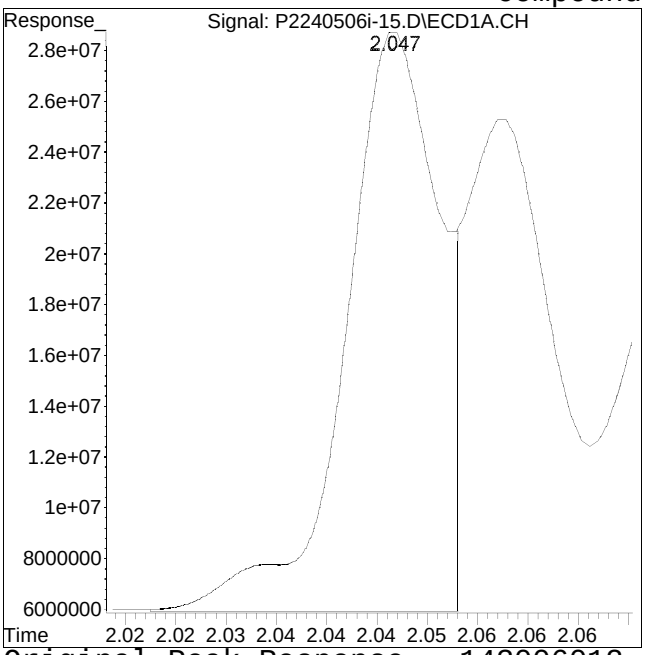
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

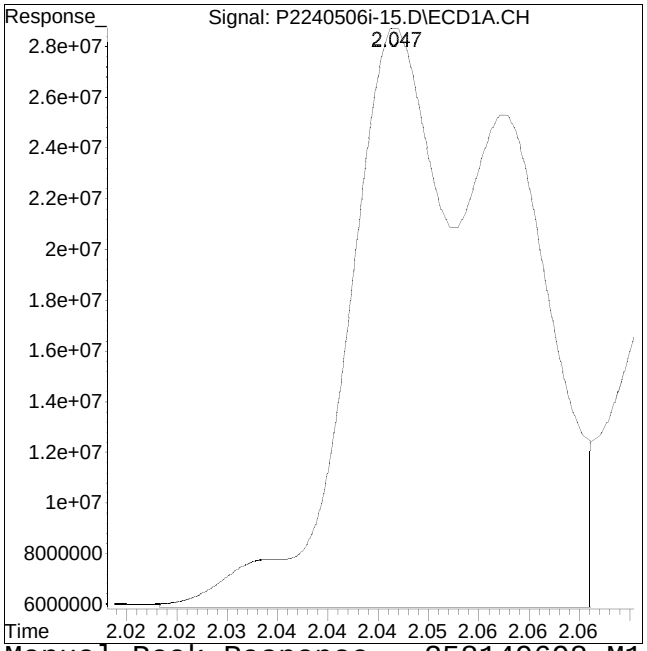


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-15.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:42 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 5/7/2024 4:44 pm

Compound #36: 1248-2





Original Peak Response = 143006012 Manual Peak Response = 258149698 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.178	10.1	70	0.00
3	s	Decachlorobiphenyl		0.847	0.861	-1.7	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.015	0.012	20.0	87	0.00
16	l3	1221-3		0.00895	0.00709	20.8#	85	0.00
17	l3	1221-4		0.035	0.028	20.0#	87	0.00
18	l4	1254-1		0.050	0.044	12.0	93	0.00
19	l4	1254-2		0.090	0.080	11.1	96	0.00
20	l4	1254-3		0.095	0.085	10.5	96	0.00
21	l4	1254-4		0.067	0.059	11.9	95	0.00
22	l4	1254-5		0.091	0.077	15.4	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.119	9.2	71	0.00
3	s	Decachlorobiphenyl		0.580	0.612	-5.5	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-2		0.015	0.012	20.0	88	0.00
16	l3	1221-3		0.00933	0.00756	19.0	90	0.00
17	l3	1221-4		0.034	0.028	17.6	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.046	0.042	8.7	101	0.00
19	l4	1254-2		0.052	0.047	9.6	100	0.00
20	l4	1254-3		0.078	0.070	10.3	100	0.00
21	l4	1254-4		0.048	0.047	2.1	108	0.00
22	l4	1254-5		0.071	0.060	15.5	94	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1		0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2		0.167	0.000	100.0#	0#	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	308.2E6	217.5E6	14.382	14.534
	Spiked Amount	20.000	Range 30 - 150		Recovery =	71.91%	72.67%
3) s	Decachlorobi	4.022	4.536	450.5E6	237.9E6	32.528M4	33.753
	Spiked Amount	20.000	Range 30 - 150		Recovery =	162.64%#	168.77%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.510	1.721	48108664	36664748	202.154	199.604
16) l3	1221-3	1.569	1.780	28986702	22977877	198.186	202.776M3
17) l3	1221-4	1.586	1.806	116.3E6	84020572	203.181M3	205.054M3
	Sum 1221-2			193.4E6	143.7E6	603.521	607.434
Average	1221-2					201.174	202.478
18) l4	1254-1	2.307	2.648	178.5E6	127.6E6	217.391	228.228
19) l4	1254-2	2.420	2.735	328.7E6	143.4E6	224.511	224.888
20) l4	1254-3	2.603	2.965	348.0E6	212.7E6	223.820M1	225.847
21) l4	1254-4	2.733	3.076	240.7E6	141.4E6	221.185	242.784
22) l4	1254-5	2.956	3.352	313.0E6	182.3E6	209.753	212.443
	Sum 1254-1			1408.9E6	807.4E6	1096.660	1134.191
Average	1254-1					219.332	226.838
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

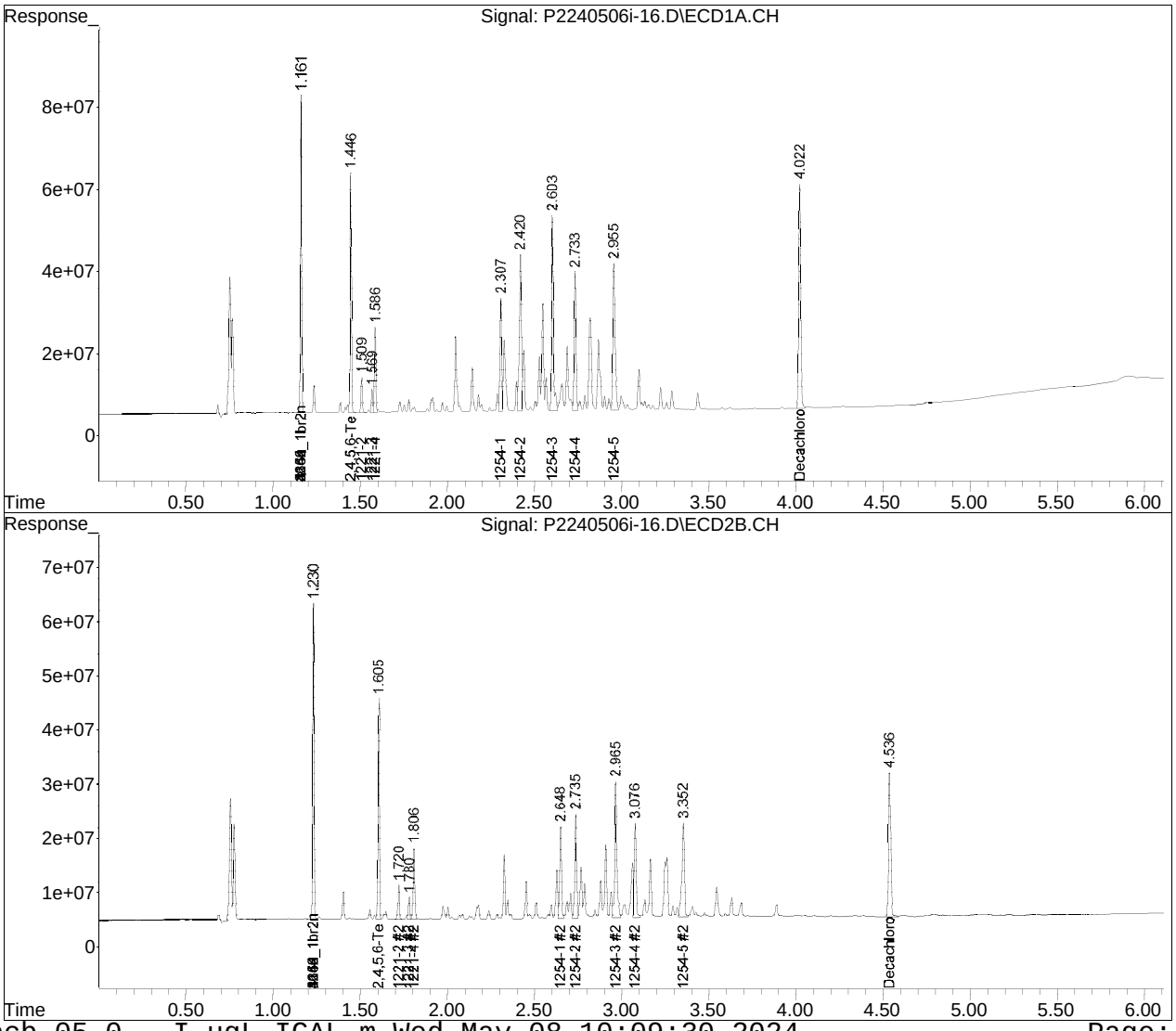
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

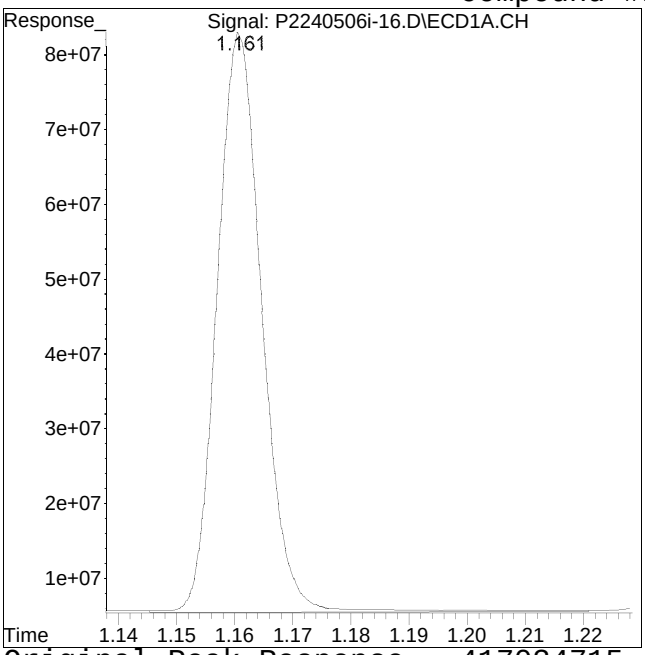
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

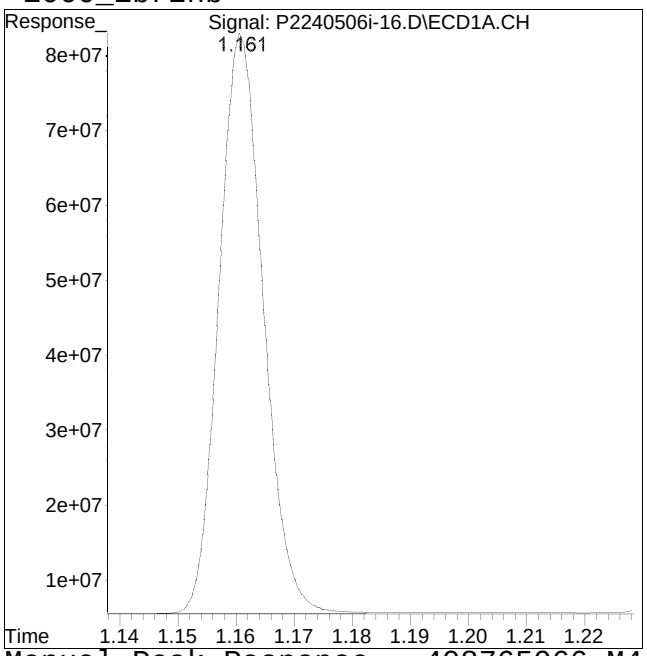


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #1: 1660_1br2nb



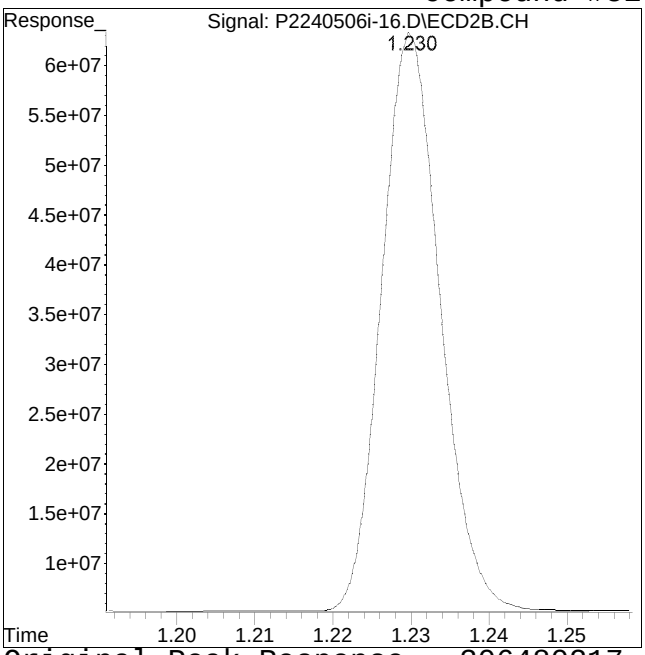


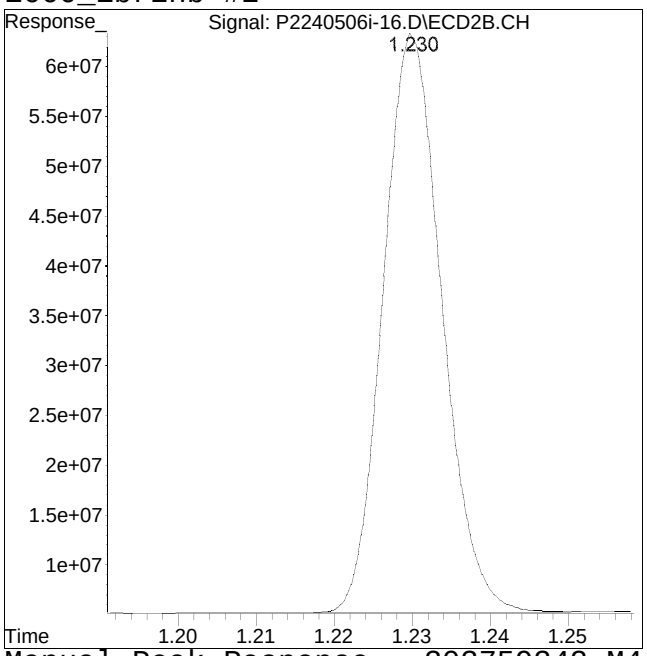
Original Peak Response = 417034715 Manual Peak Response = 408765066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #52: 1660_1br2nb #2



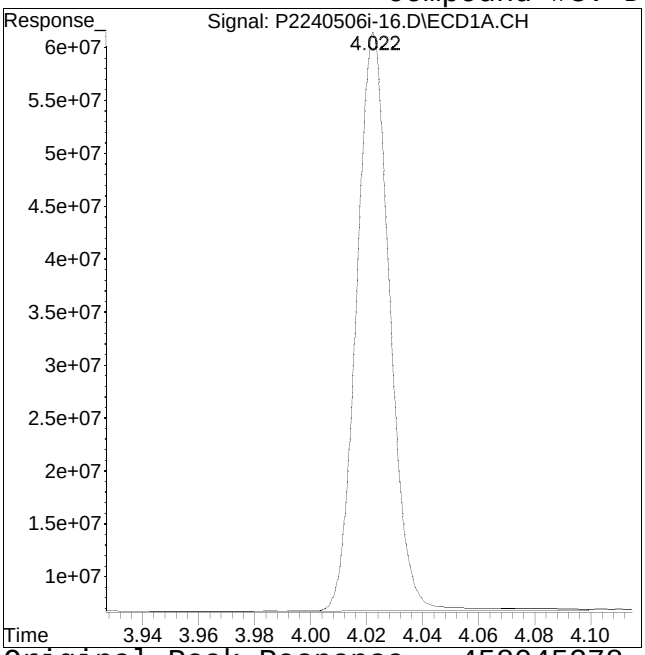


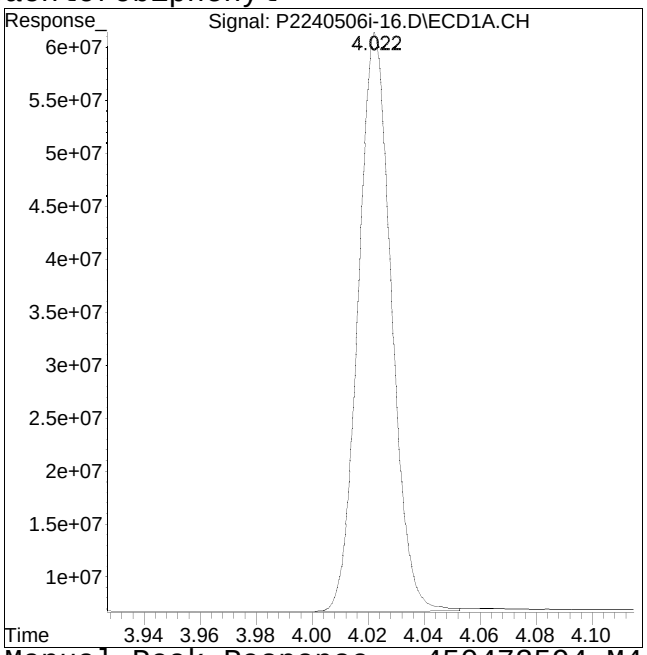
Original Peak Response = 306480217 Manual Peak Response = 303759342 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #3: Decachlorobiphenyl



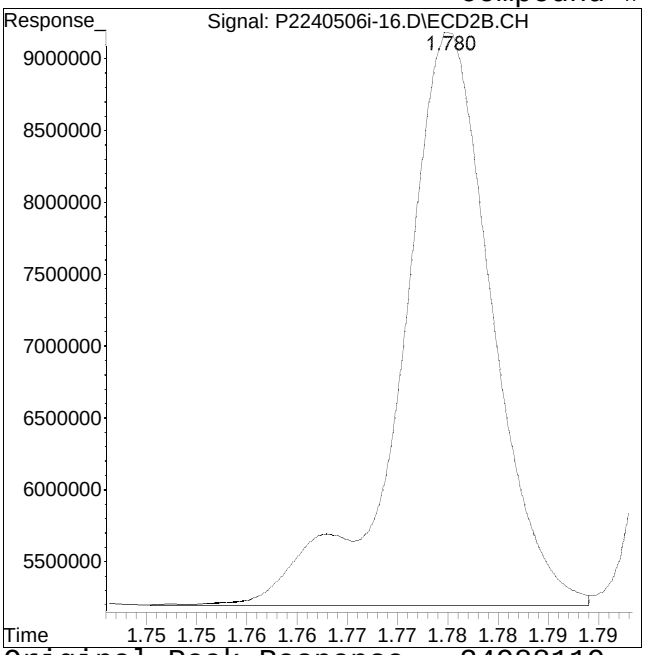


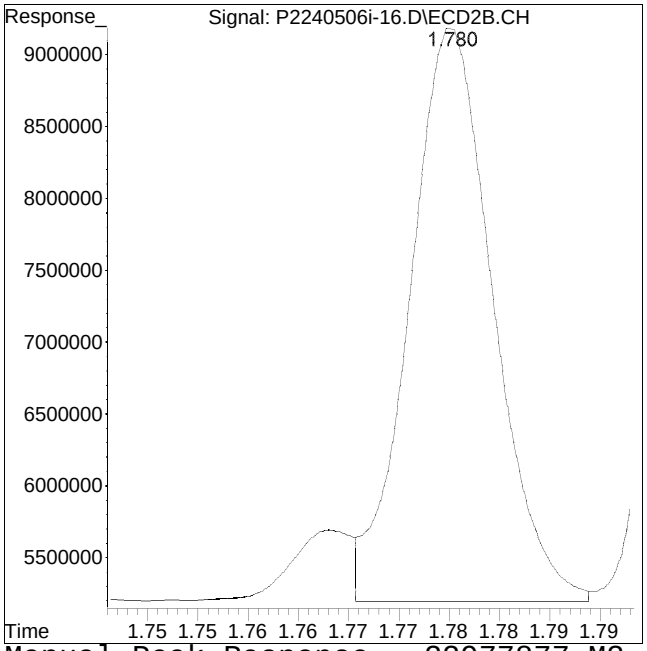
Original Peak Response = 458045378 Manual Peak Response = 450473594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #67: 1221-3 #2



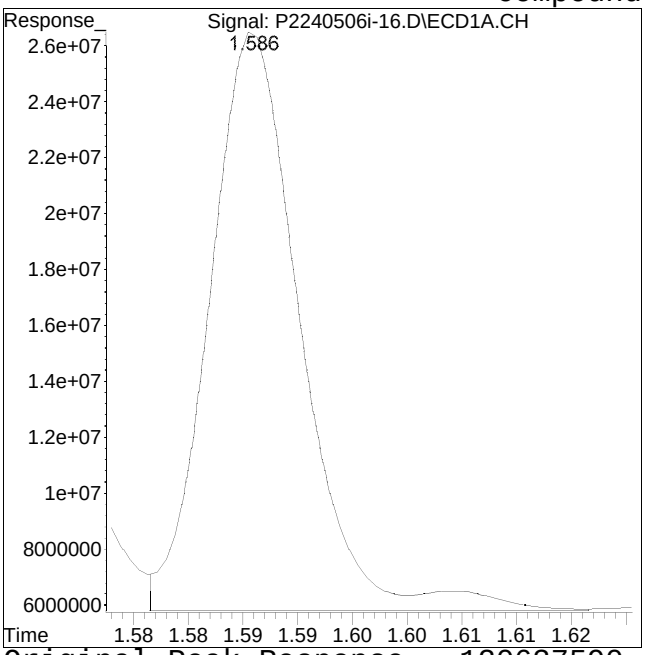


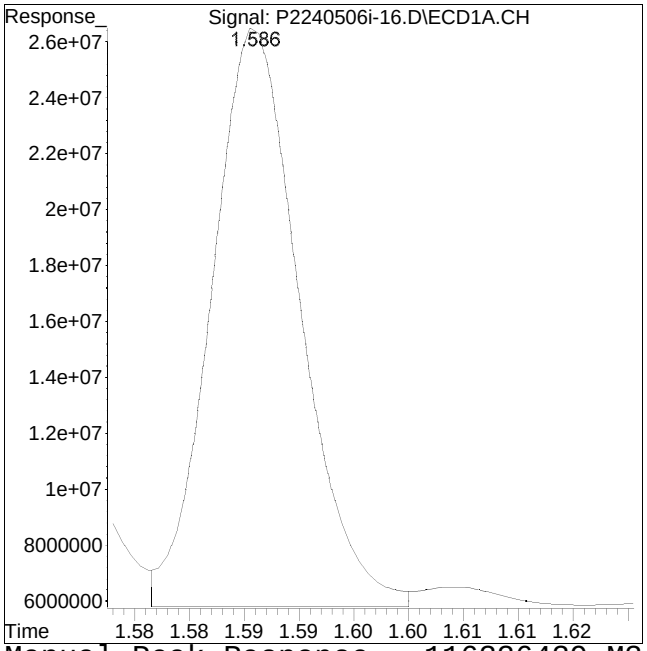
Original Peak Response = 24988119 Manual Peak Response = 22977877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #17: 1221-4



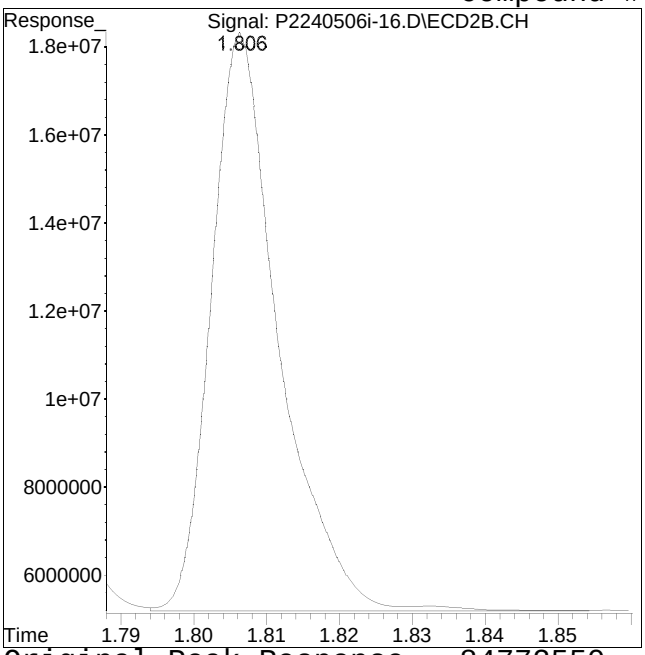


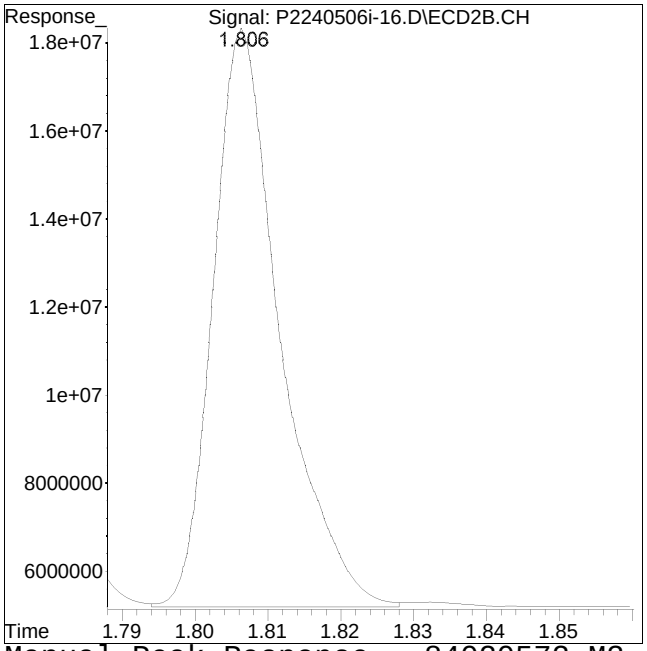
Original Peak Response = 120637590 Manual Peak Response = 116336439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #68: 1221-4 #2



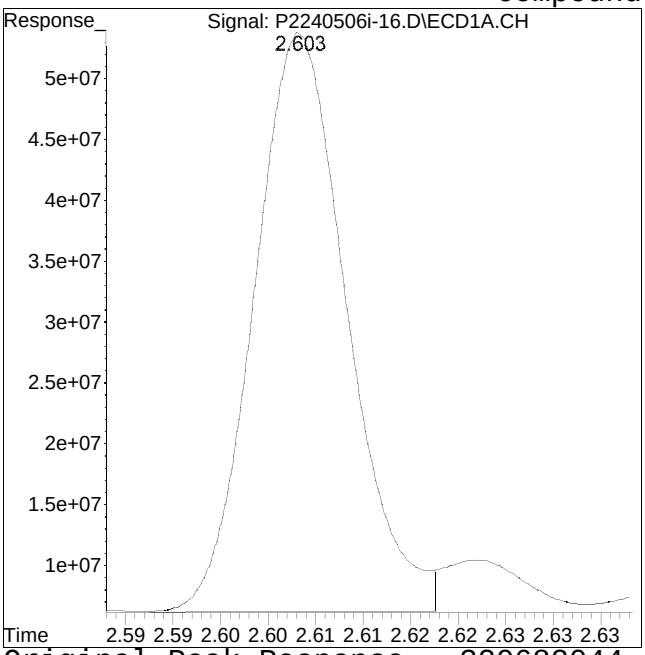


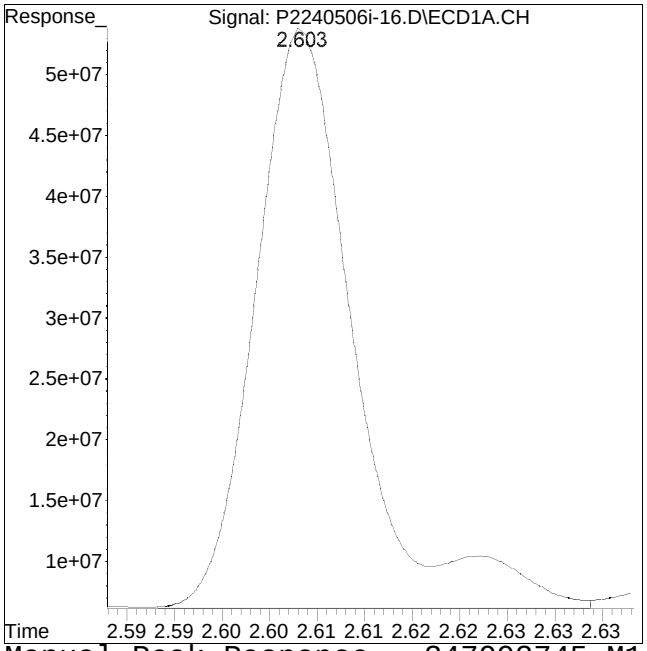
Original Peak Response = 84772550 Manual Peak Response = 84020572 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #20: 1254-3





Original Peak Response = 320682044 Manual Peak Response = 347993745 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	441.4E6	313.8E6	25.000	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.601	11388483	8343622	0.492	0.535
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.46%#	2.68%#
3) s	Decachlorobi	4.023	4.533	16750063	8510498	0.419M4	1.148M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.10%#	5.74%#
	Target Compounds						
4) l1	1016-1	1.584	1.803	3450981	2331136	8.405M4	8.707M5
5) l1	1016-2	1.726	1.975	6769076	5116199	7.846M4	8.669M4
6) l1	1016-3	1.916	2.176	13963884	10750016	7.759M4	9.175M4
7) l1	1016-4	1.971	2.236	5637064	3338891	7.770M3	7.351M4
8) l1	1016-5	2.142	2.447	6947810	3199324	8.725M4	8.197M4
	Sum 1016-1			36768814	24735565	40.505	42.098
	Average 1016-1					8.101	8.420
9) l2	1260-1	2.687	3.058	10067369	9159323	8.631M4	13.100M4
10) l2	1260-2	2.817	3.159	14349523	8268142	0.538M4	9.726M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.134	3.553	8892637	5160934	8.062M4	7.483M4
12) l2	1260-4	3.290	3.682	18580326	10937126	1.300M3	8.930M4
13) l2	1260-5	3.438	3.884	13302799	6780440	1.855M4	7.906M3
Sum	1260-1			65192654	40305965	N.D.	N.D. D
Average	1260-1					4.077	9.429 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

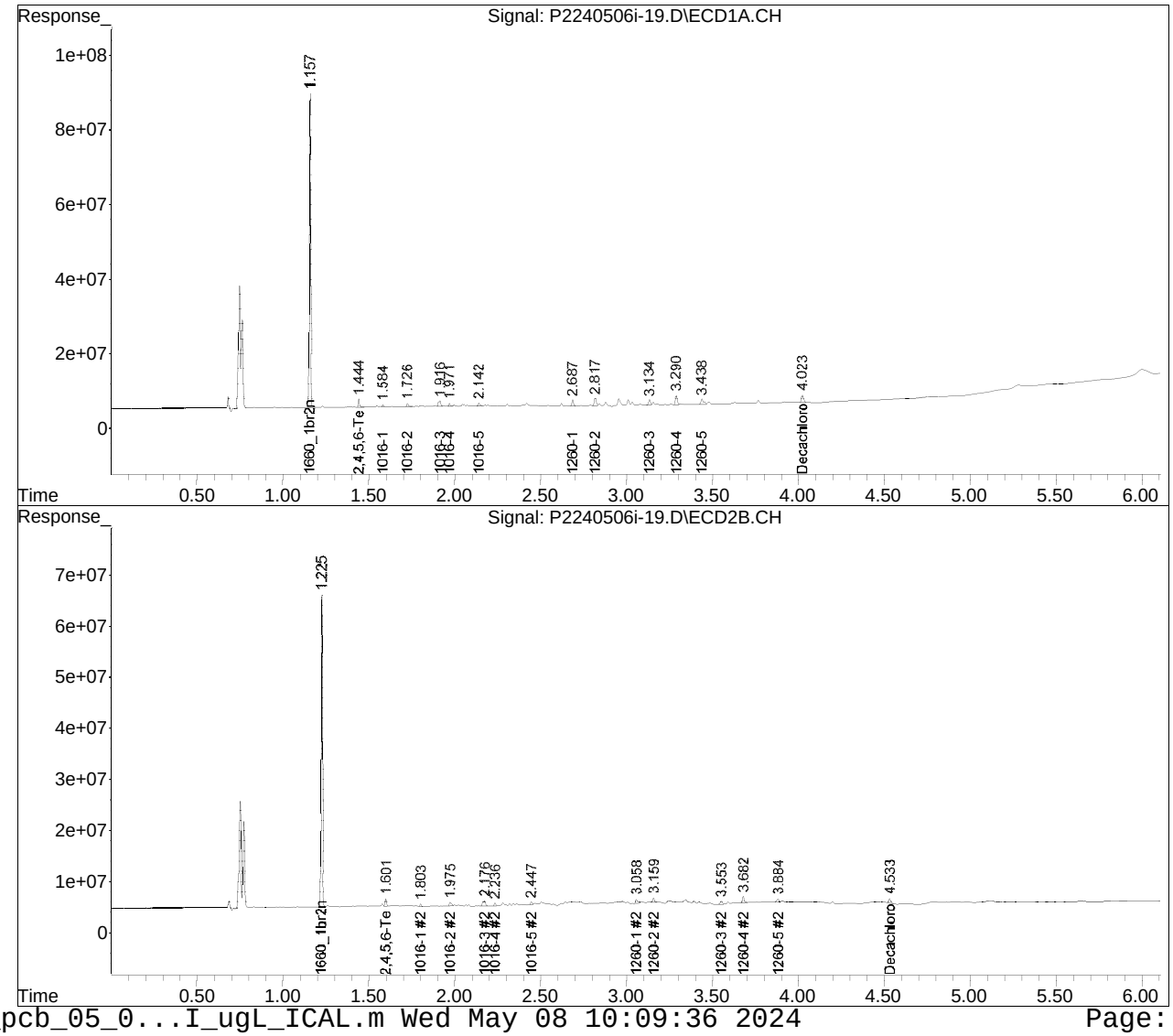
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

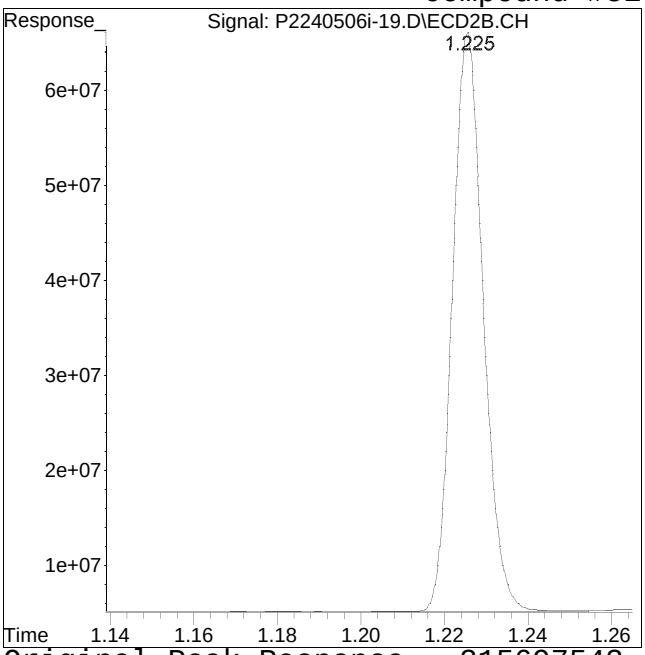
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

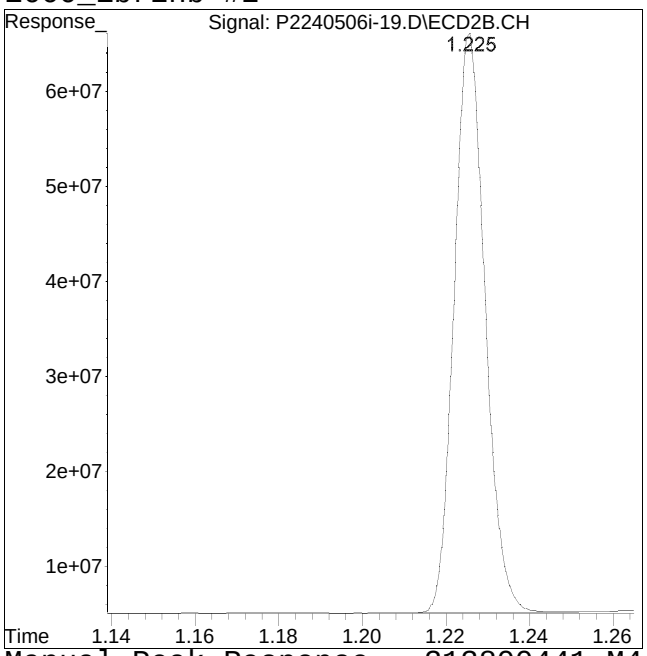


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #52: 1660_1br2nb #2



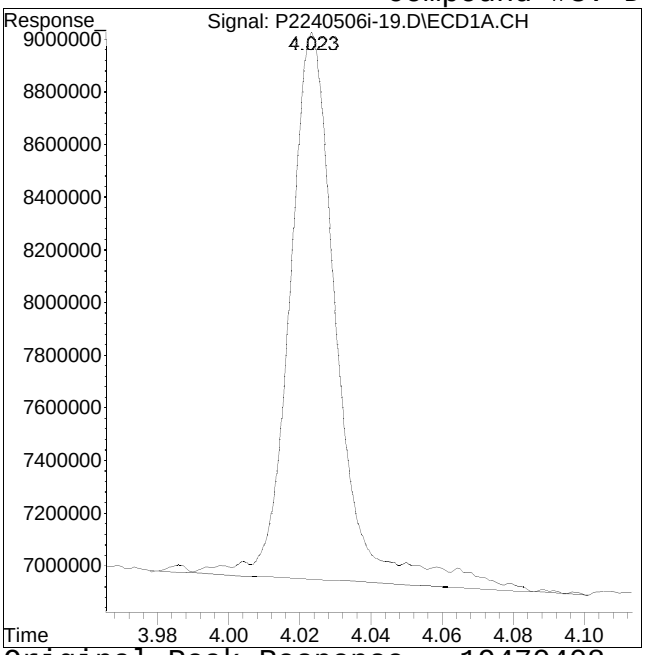


Original Peak Response = 315697543 Manual Peak Response = 313800441 M4
M4 = Poor automated baseline construction.

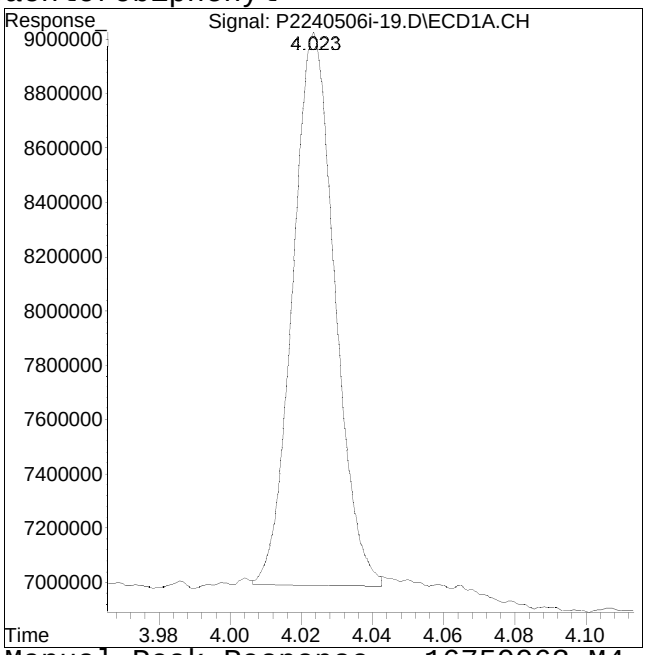
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 19470408



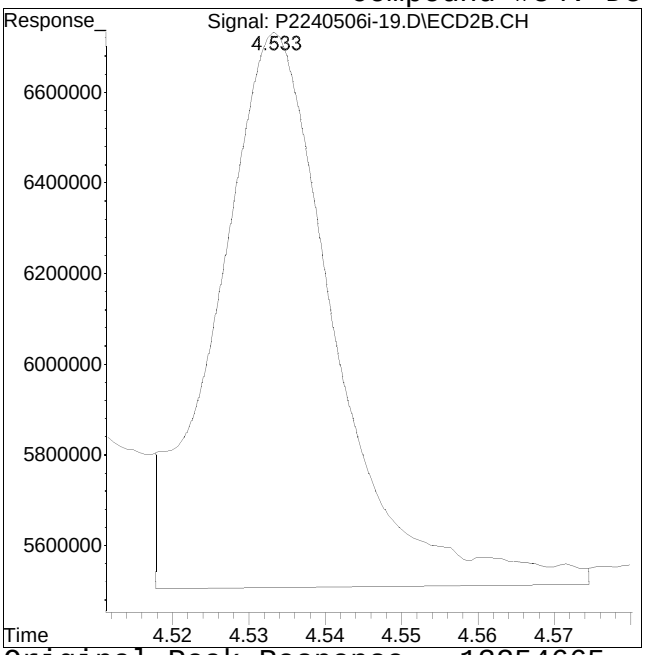
Manual Peak Response = 16750063 M4

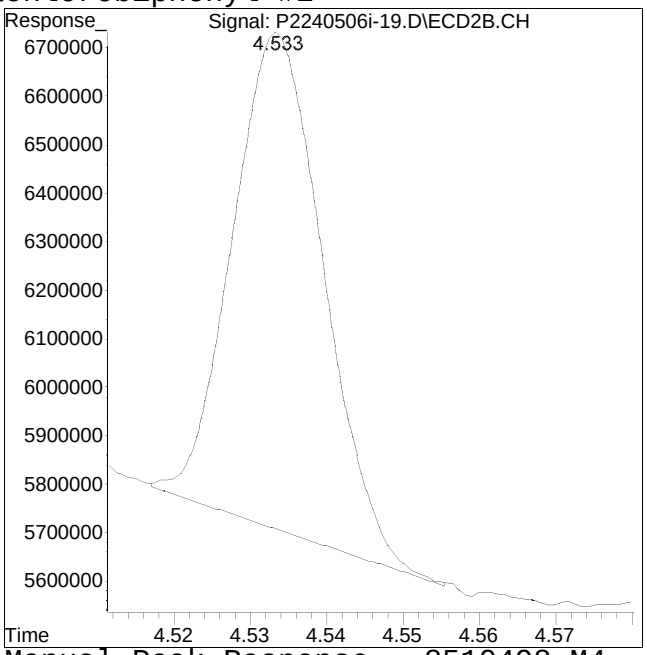
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #54: Decachlorobiphenyl #2



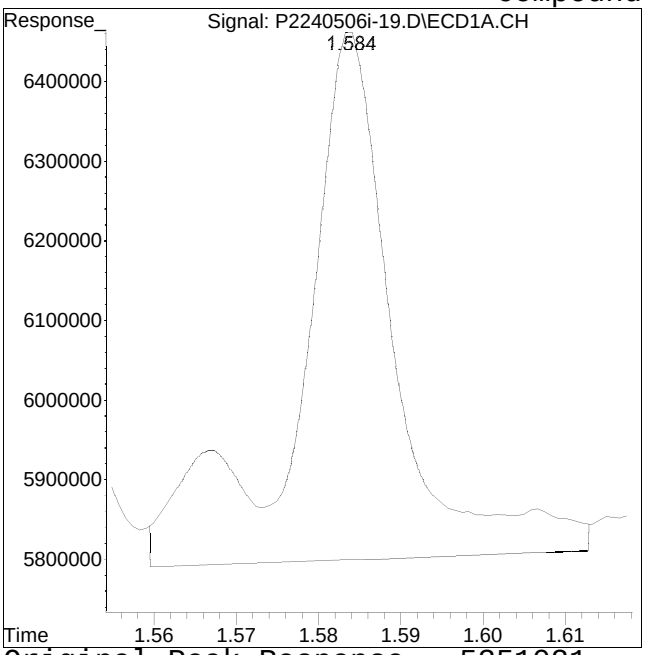


Original Peak Response = 13254665 Manual Peak Response = 8510498 M4
M4 = Poor automated baseline construction.

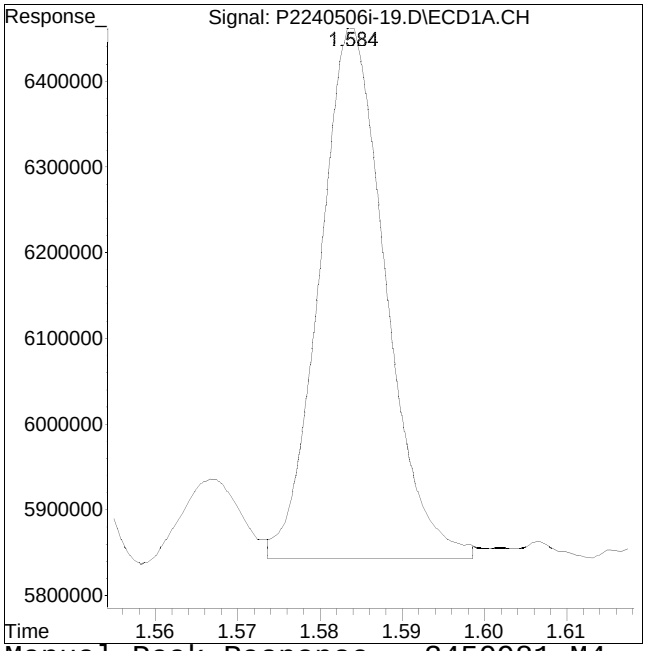
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #4: 1016-1



Original Peak Response = 5351021



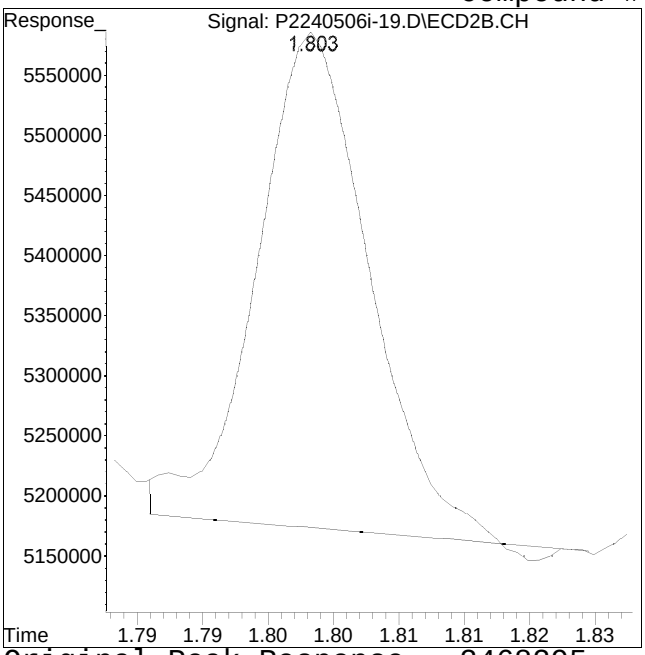
Manual Peak Response = 3450981 M4

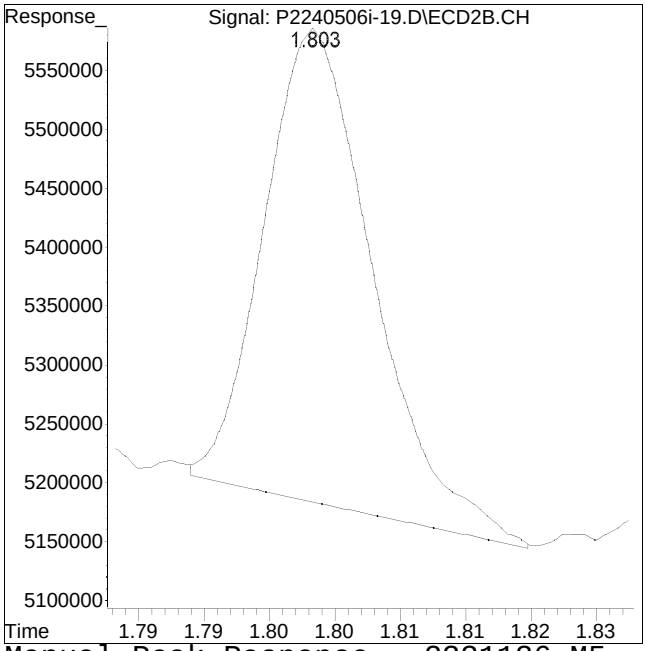
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #55: 1016-1 #2



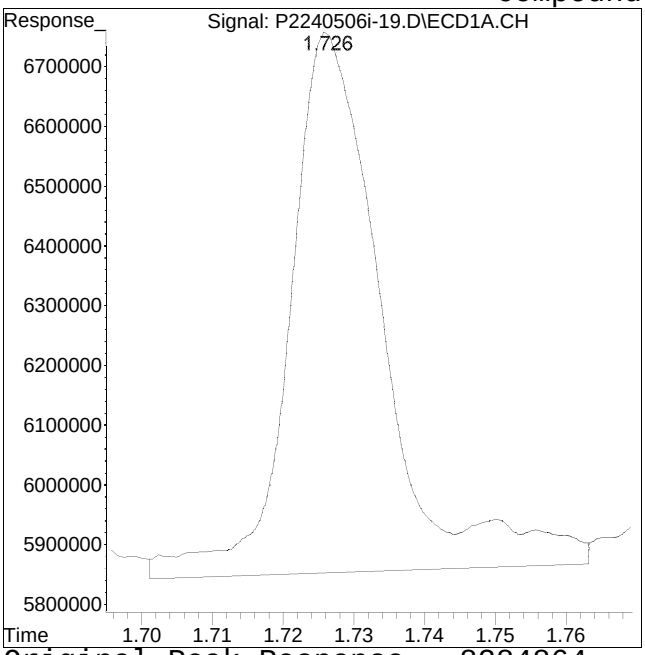


Original Peak Response = 2468295 Manual Peak Response = 2331136 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

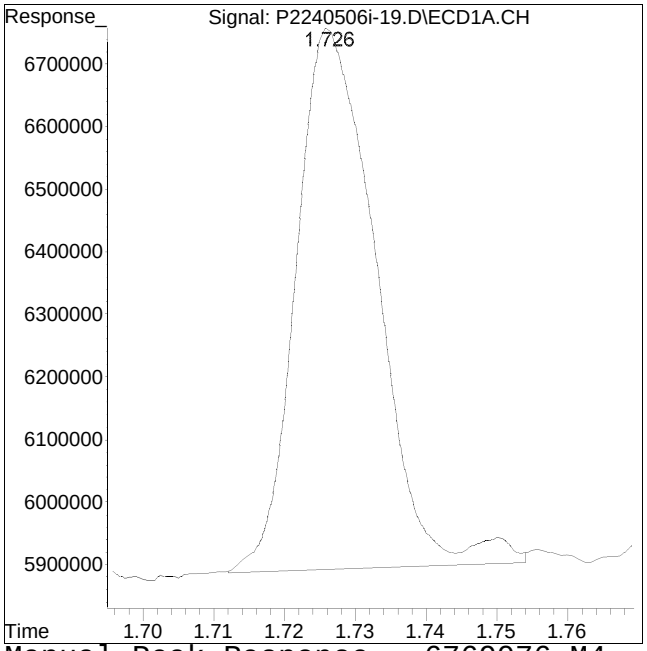
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #5: 1016-2



Original Peak Response = 8284864



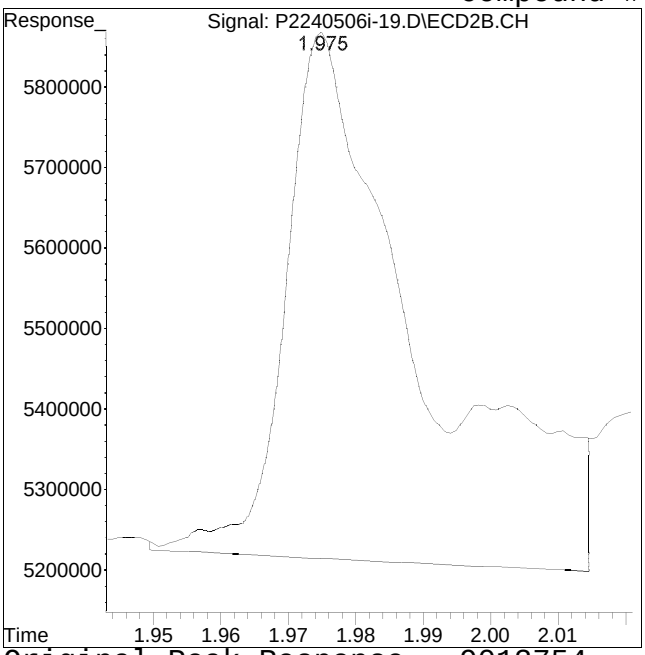
Manual Peak Response = 6769076 M4

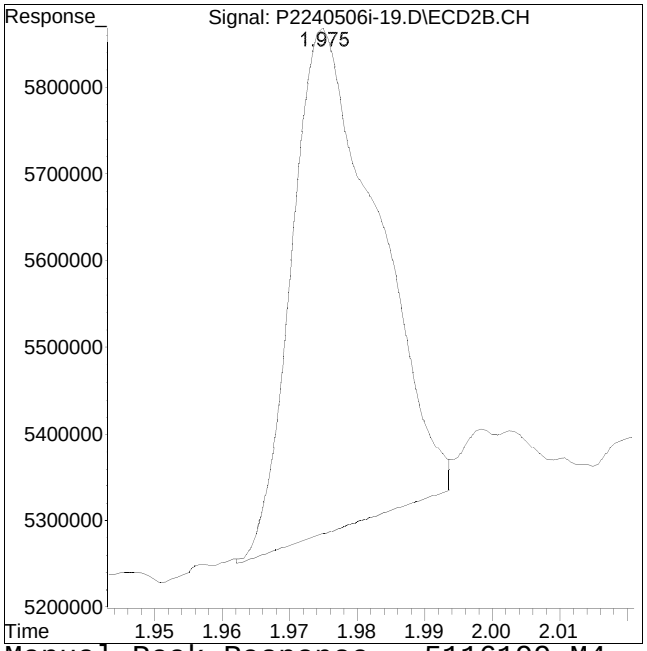
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #56: 1016-2 #2



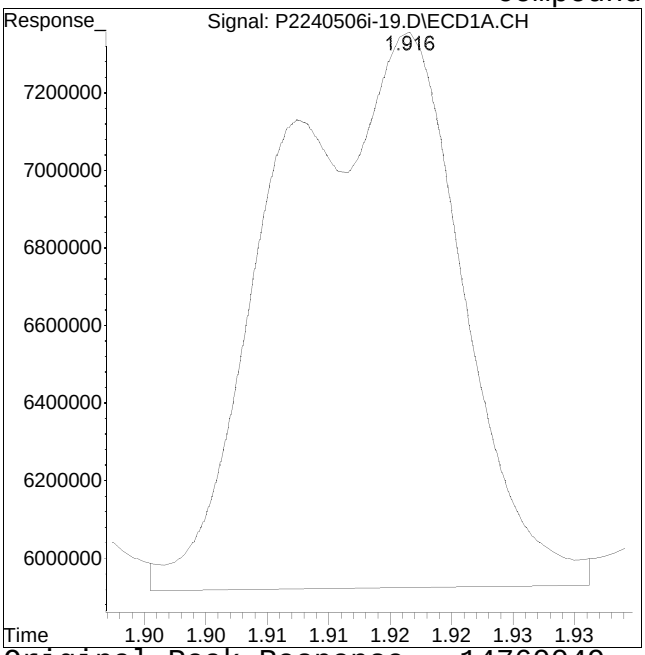


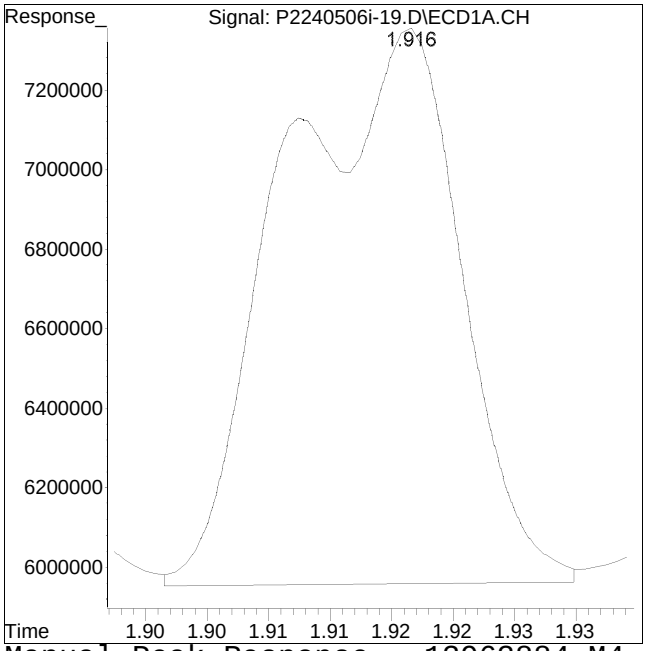
Original Peak Response = 9013754 Manual Peak Response = 5116199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #6: 1016-3



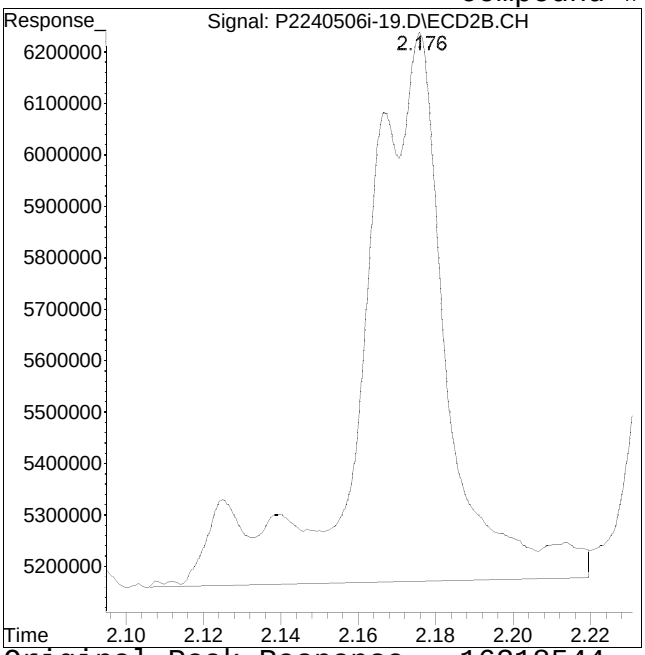


Original Peak Response = 14760049 Manual Peak Response = 13963884 M4
M4 = Poor automated baseline construction.

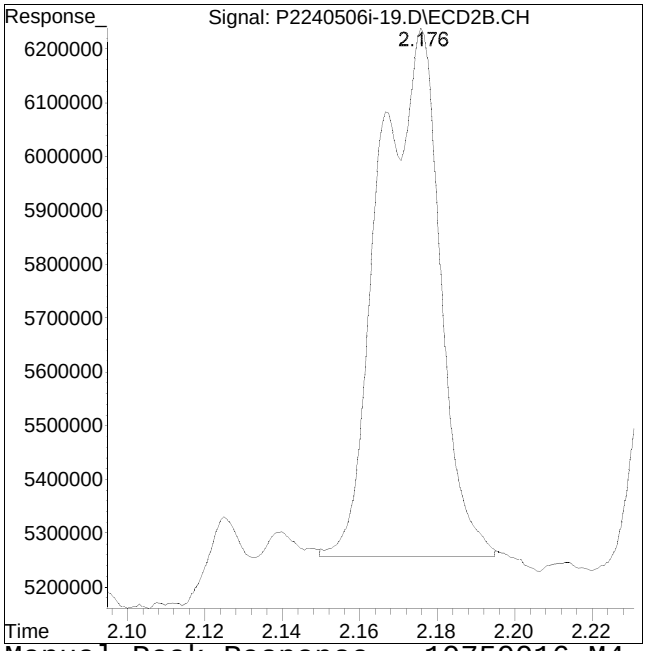
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #57: 1016-3 #2



Original Peak Response = 16318544



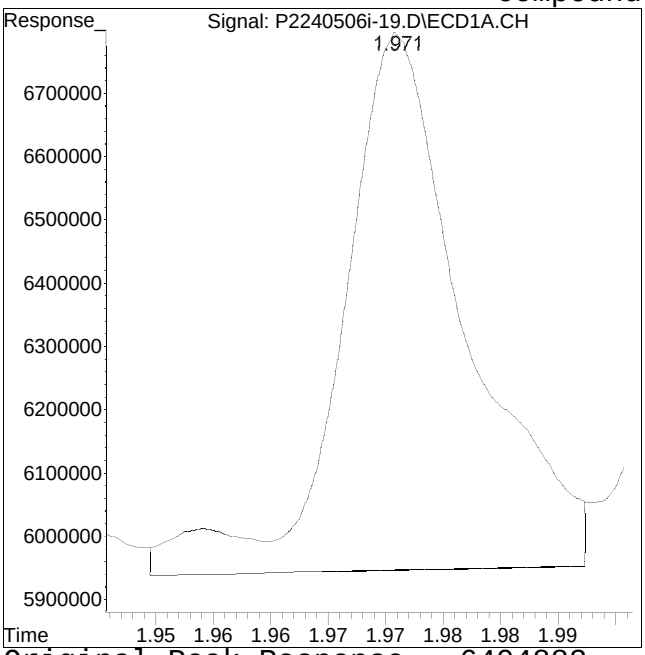
Manual Peak Response = 10750016 M4

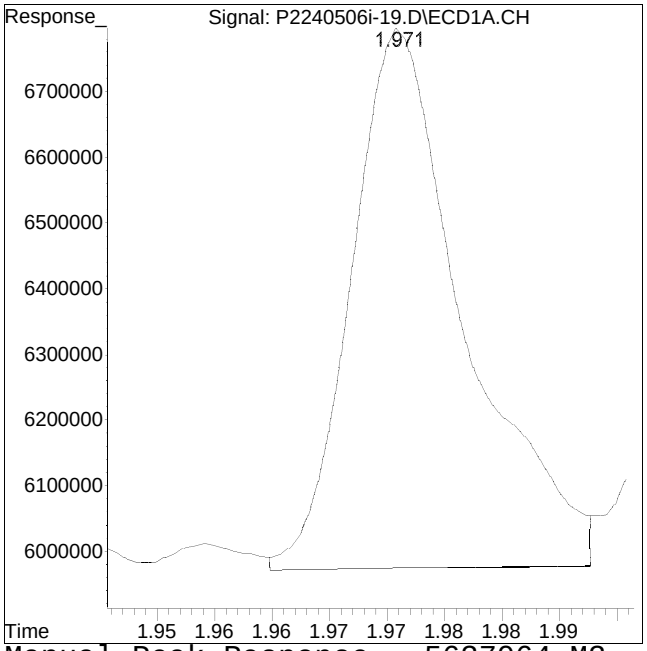
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #7: 1016-4



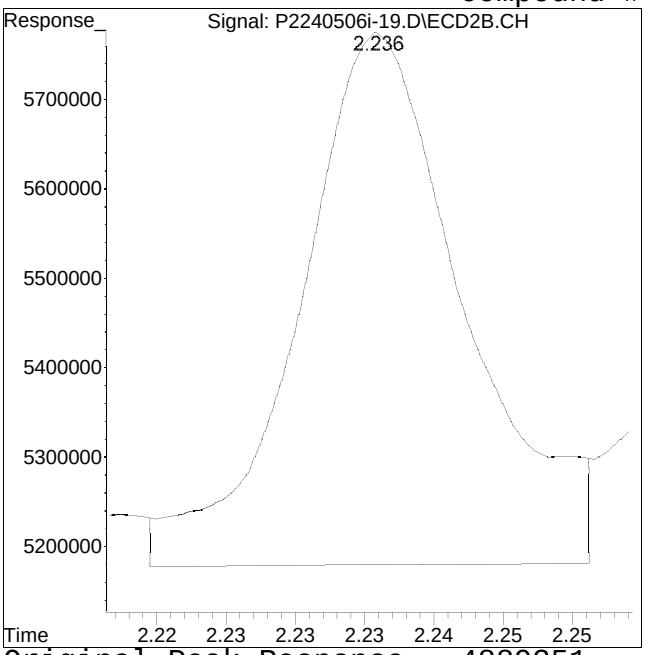


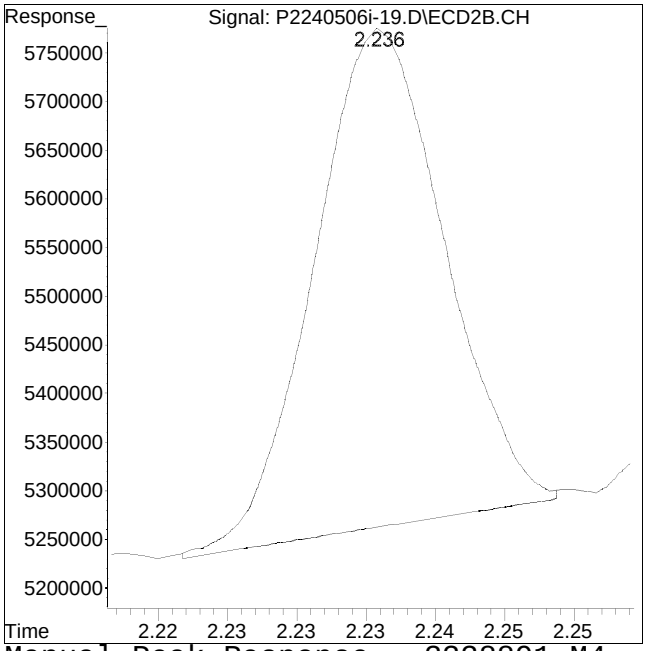
Original Peak Response = 6404883 Manual Peak Response = 5637064 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #58: 1016-4 #2



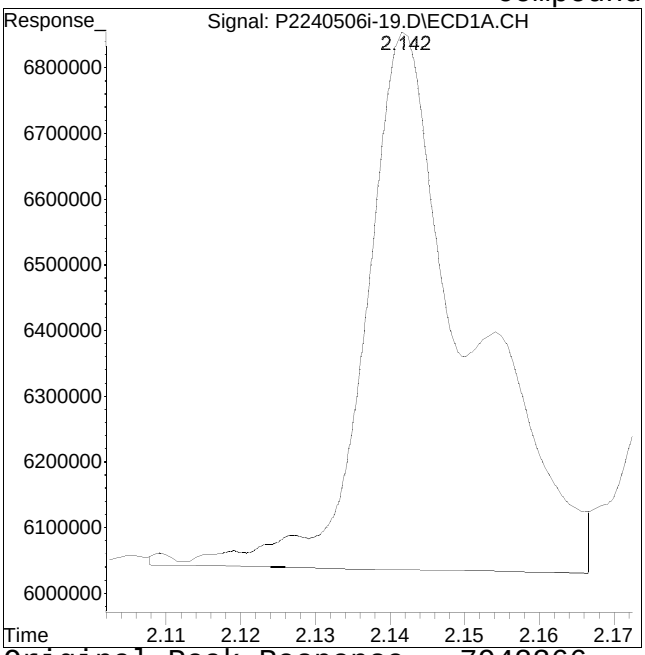


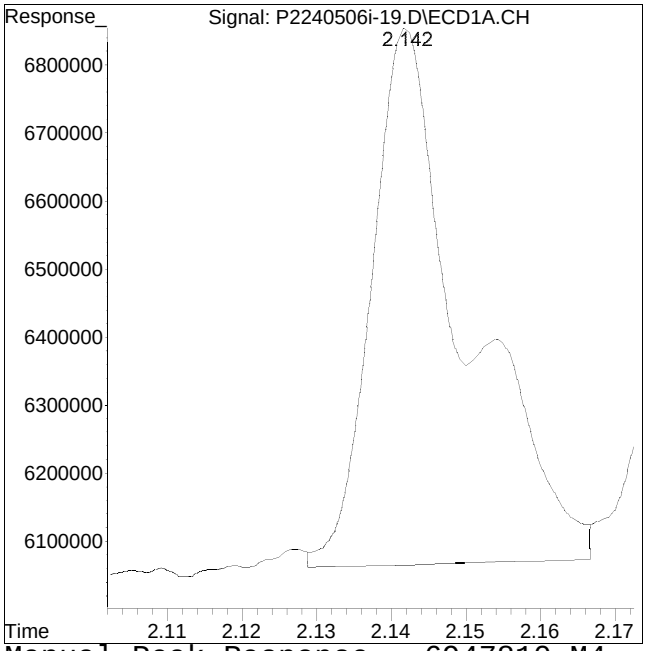
Original Peak Response = 4889351 Manual Peak Response = 3338891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #8: 1016-5



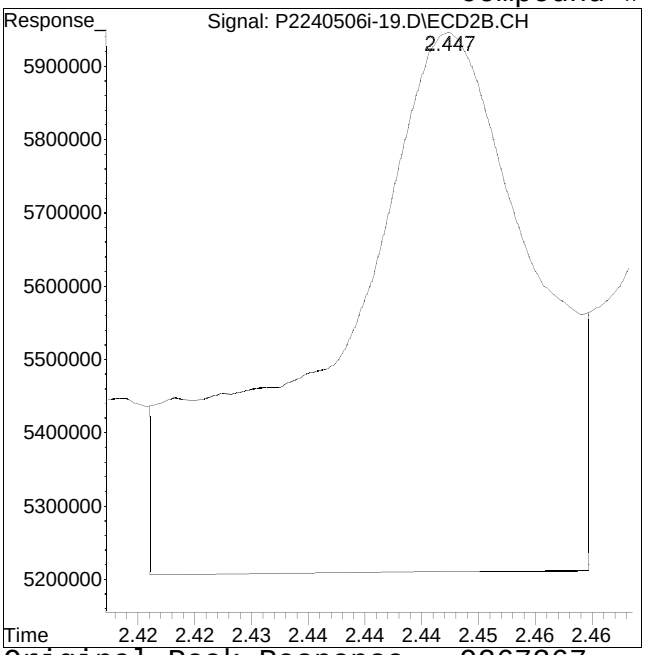


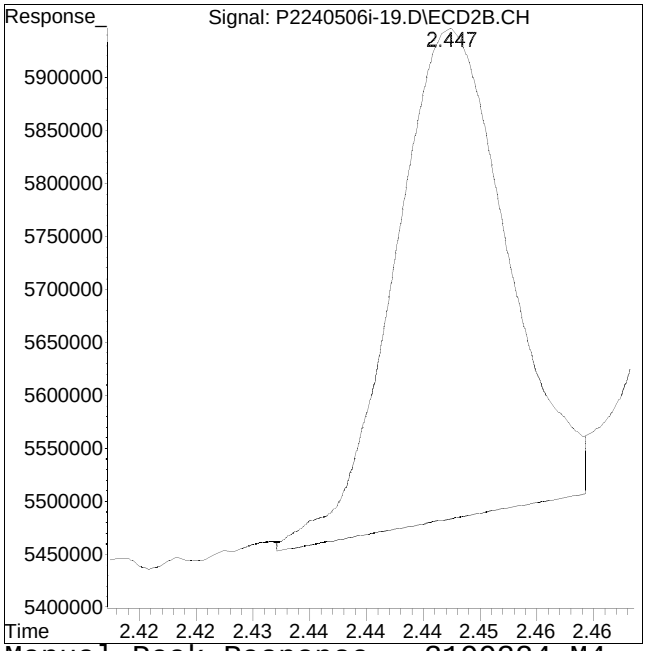
Original Peak Response = 7942366 Manual Peak Response = 6947810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #59: 1016-5 #2



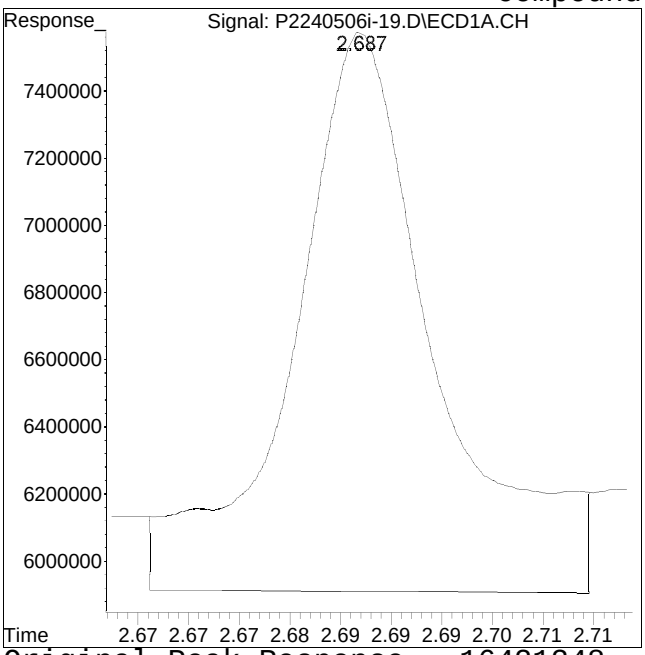


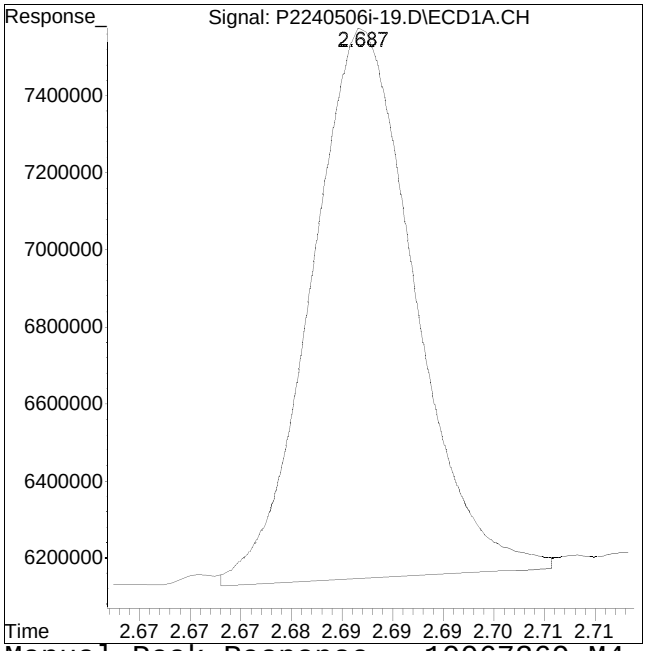
Original Peak Response = 9267367 Manual Peak Response = 3199324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #9: 1260-1



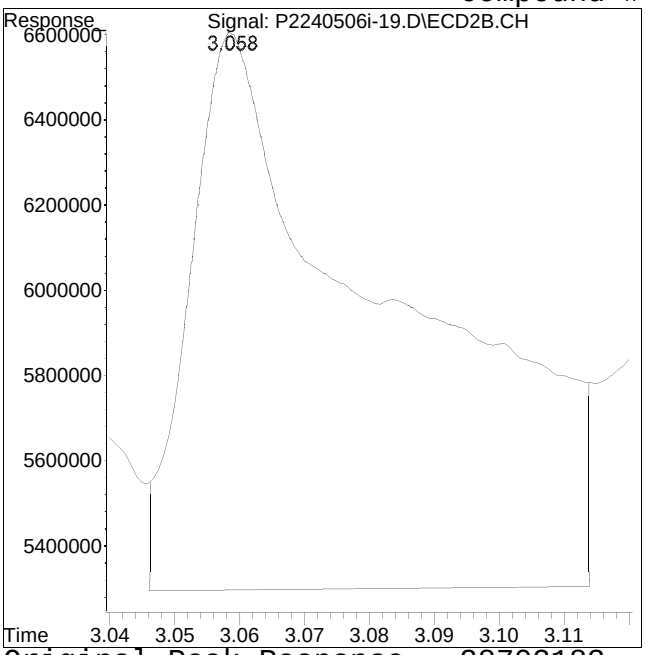


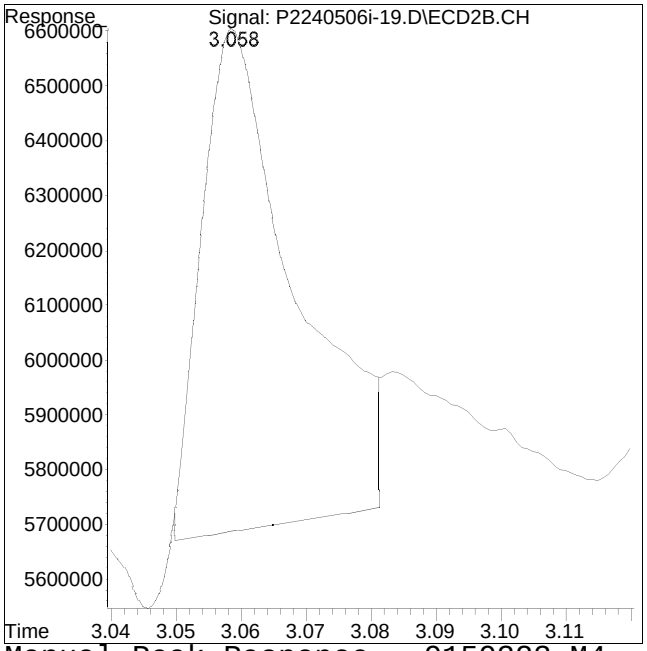
Original Peak Response = 16421248 Manual Peak Response = 10067369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #60: 1260-1 #2



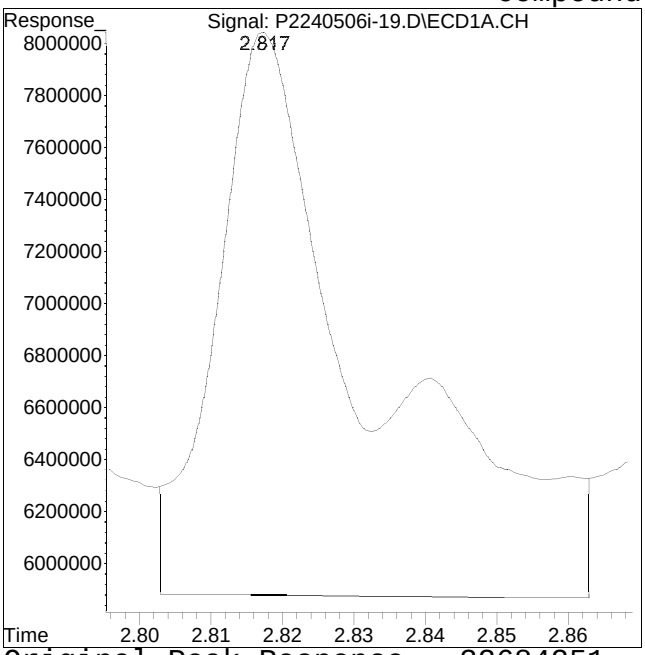


Original Peak Response = 28702183 Manual Peak Response = 9159323 M4
M4 = Poor automated baseline construction.

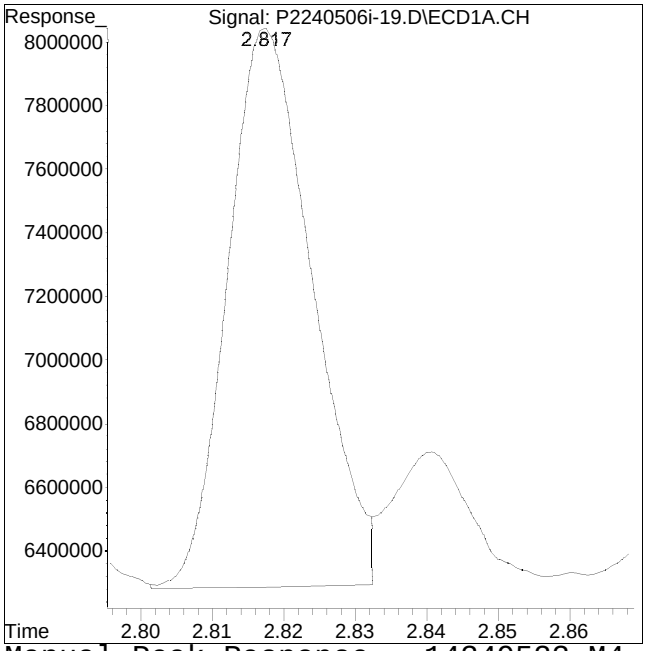
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #10: 1260-2



Original Peak Response = 32684251



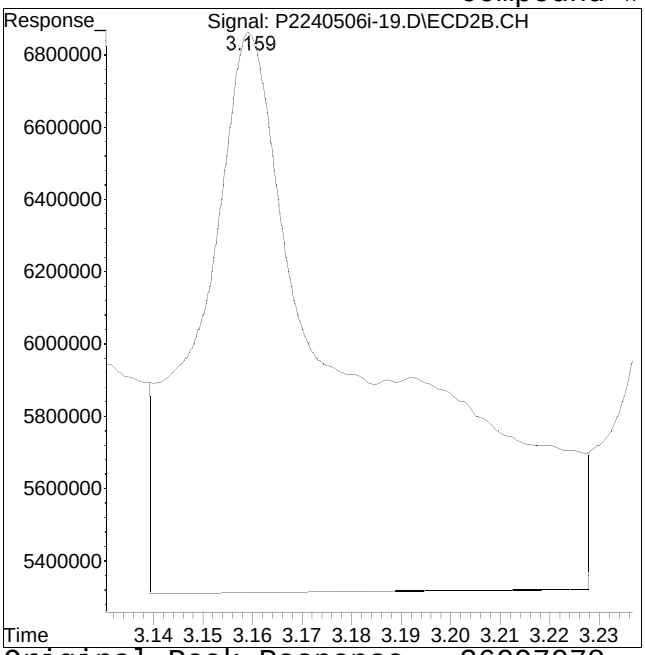
Manual Peak Response = 14349523 M4

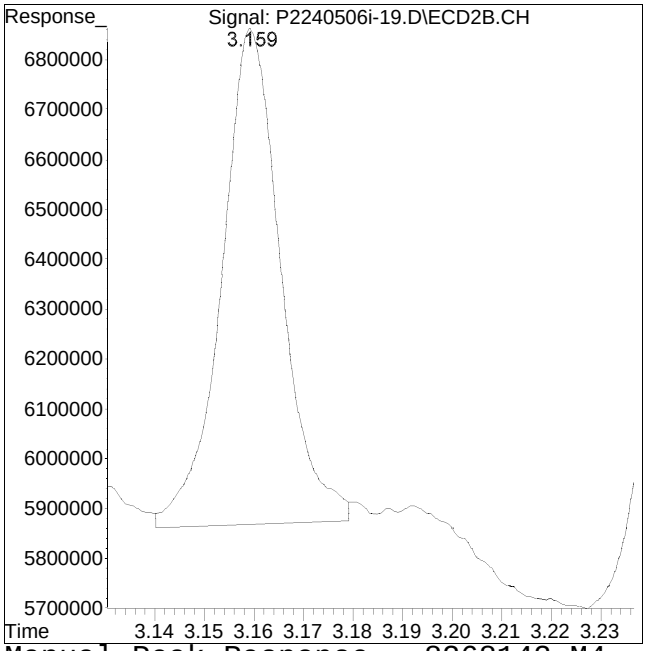
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #61: 1260-2 #2



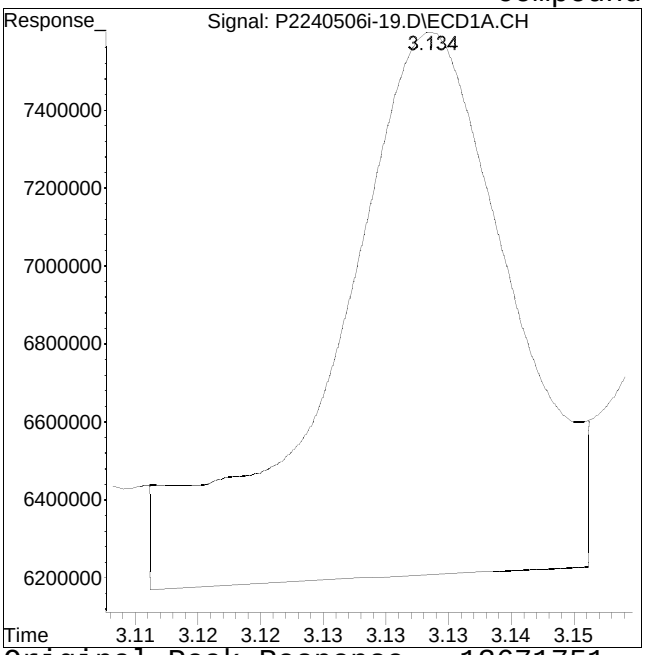


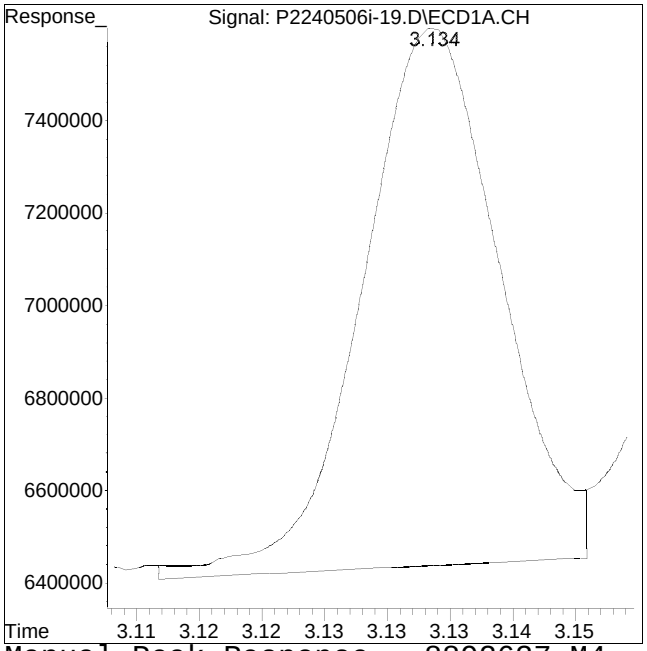
Original Peak Response = 36097078 Manual Peak Response = 8268142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #11: 1260-3



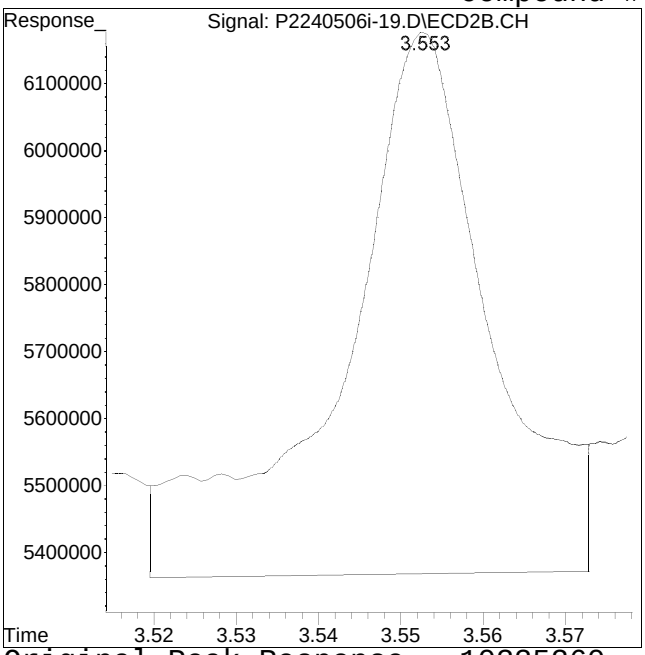


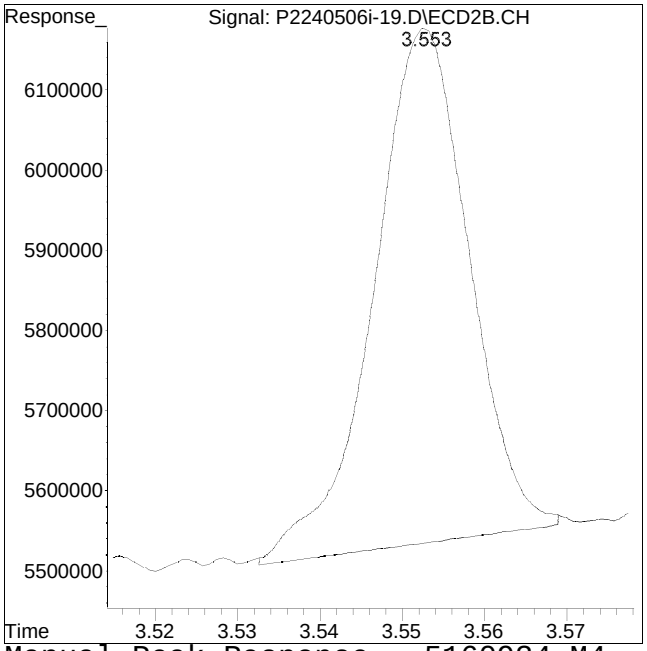
Original Peak Response = 13671751 Manual Peak Response = 8892637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #62: 1260-3 #2



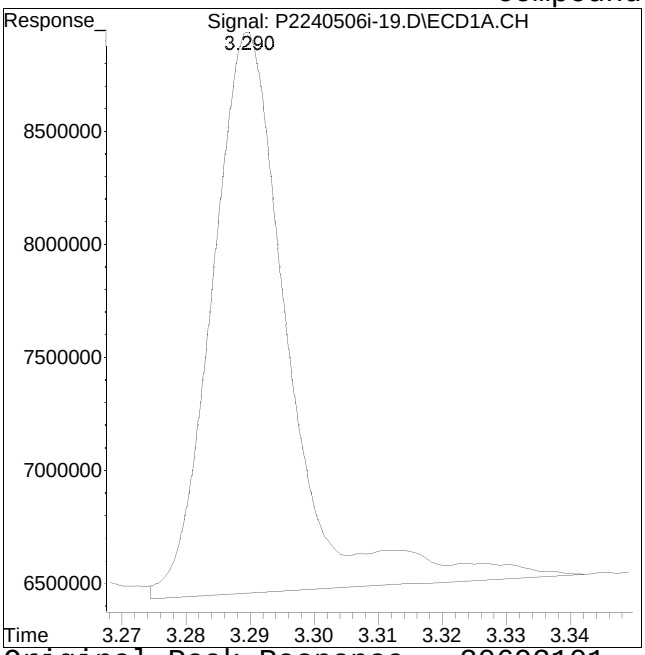


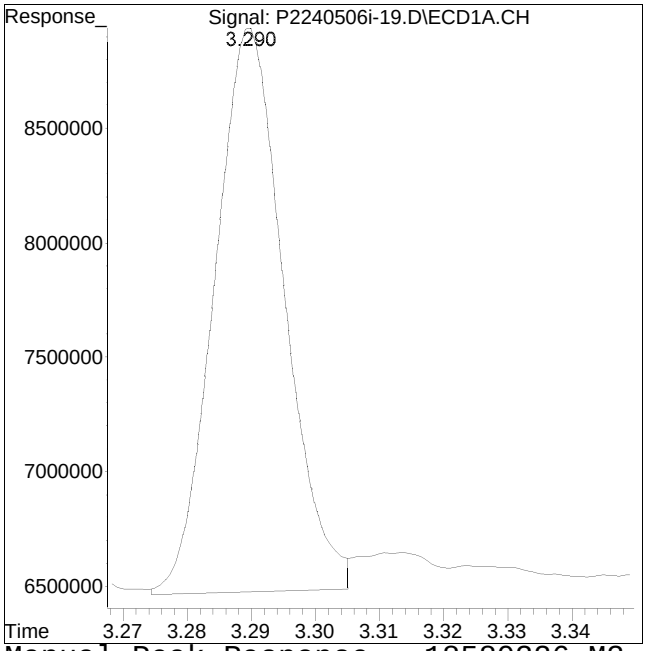
Original Peak Response = 10335260 Manual Peak Response = 5160934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #12: 1260-4



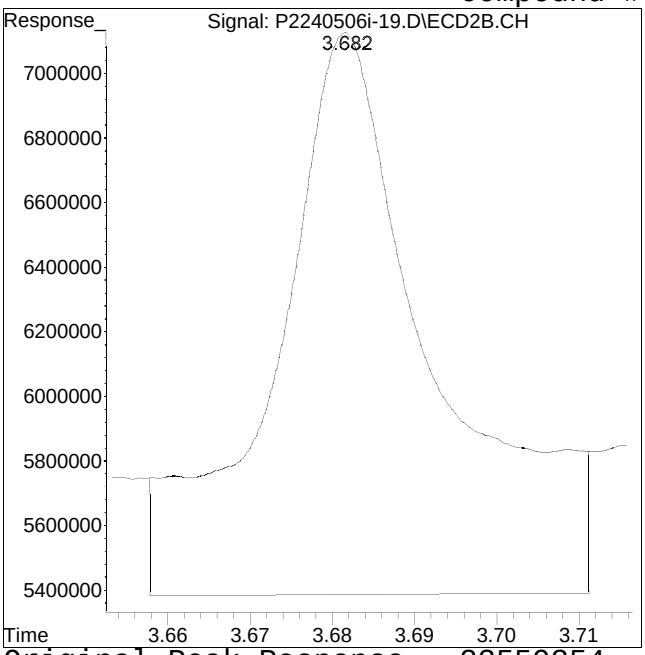


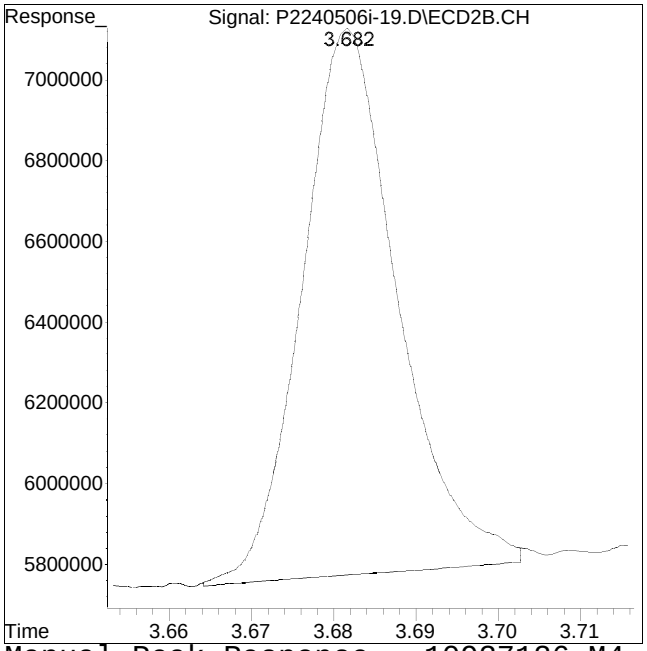
Original Peak Response = 20692101 Manual Peak Response = 18580326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #63: 1260-4 #2



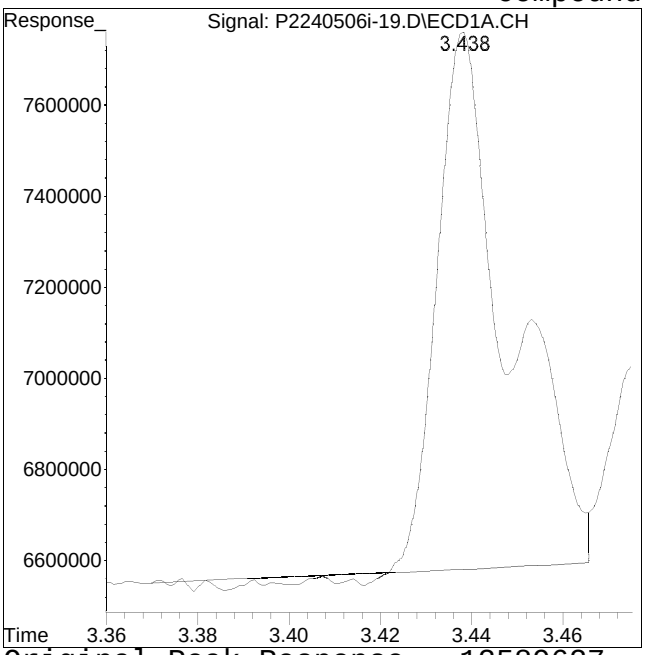


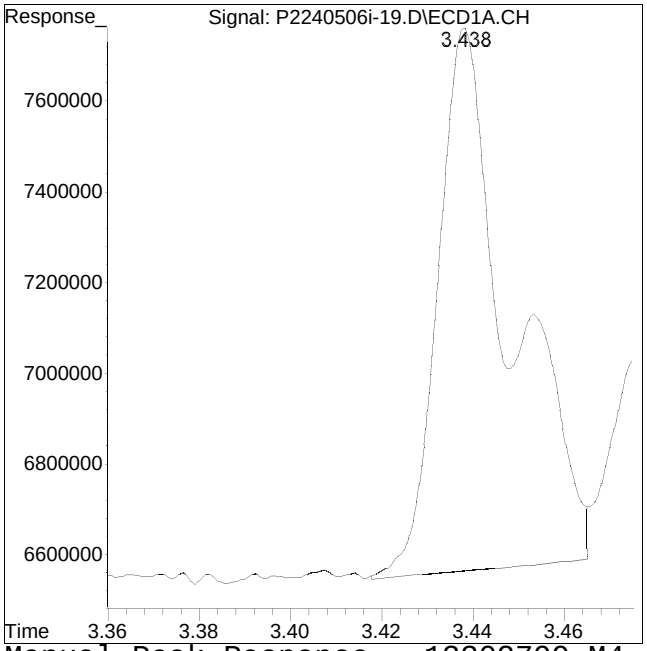
Original Peak Response = 23559354 Manual Peak Response = 10937126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #13: 1260-5



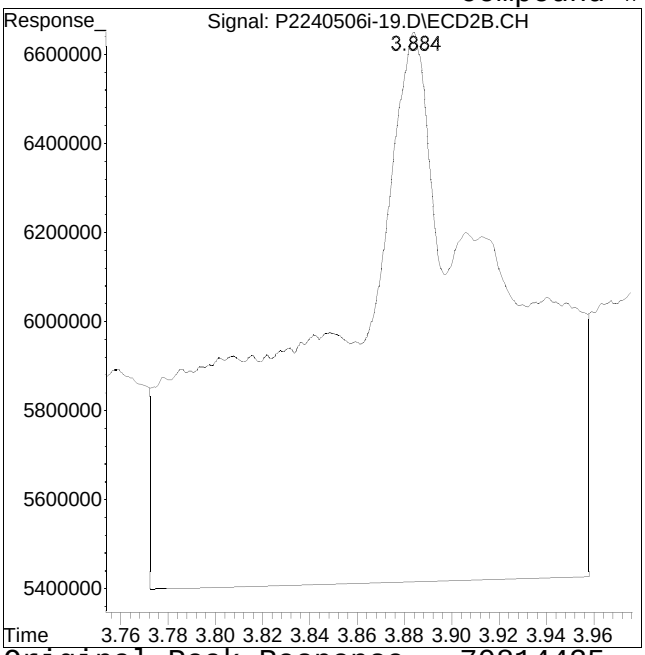


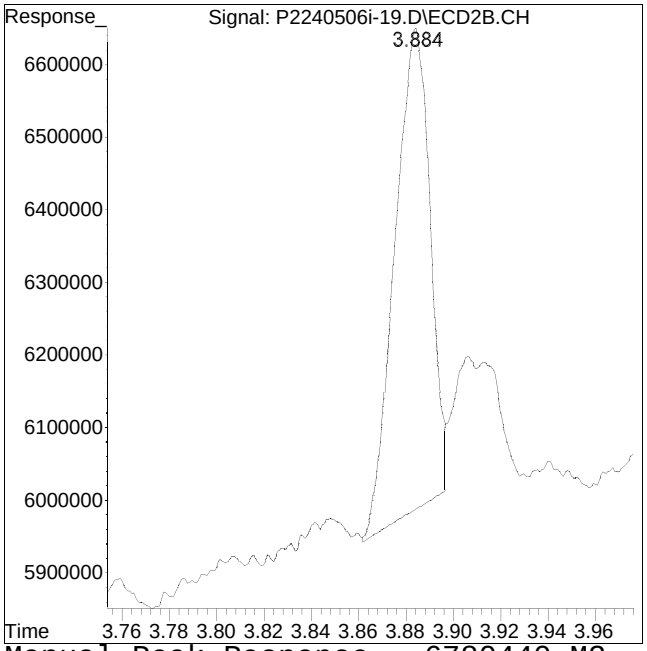
Original Peak Response = 12589627 Manual Peak Response = 13302799 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 70814435 Manual Peak Response = 6780440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.275	2.7	77	0.00
3	s	Decachlorobiphenyl		0.847	0.950	-12.2	91	0.00
4	l1	1016-1		0.022	0.021	4.5	78	0.00
5	l1	1016-2		0.049	0.048	2.0	79	0.00
6	l1	1016-3		0.101	0.107	-5.9	84	0.00
7	l1	1016-4		0.040	0.042	-5.0	85	0.00
8	l1	1016-5		0.045	0.044	2.2	80	0.00
9	l2	1260-1		0.065	0.067	-3.1	85	0.00
10	l2	1260-2		0.097	0.101	-4.1	84	0.00
11	l2	1260-3		0.060	0.052	13.3	70	0.00
12	l2	1260-4		0.130	0.113	13.1	70	0.00
13	l2	1260-5		0.091	0.082	9.9	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	109	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	109	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.161	5.8	74	0.00
3	s	Decachlorobiphenyl		0.580	0.641	-10.5	91	0.00
4	l1	1016-1		0.021	0.020	4.8	75	0.00
5	l1	1016-2		0.046	0.046	0.0	79	0.00
6	l1	1016-3		0.092	0.088	4.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.034	0.034	0.0	77	0.00
8	l1	1016-5		0.029	0.026	10.3	71	0.00
9	l2	1260-1		0.054	0.048	11.1	78	0.00
10	l2	1260-2		0.062	0.056	9.7	77	0.00
11	l2	1260-3		0.048	0.044	8.3	74	0.00
12	l2	1260-4		0.096	0.083	13.5	70	0.00
13	l2	1260-5		0.066	0.060	9.1	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	110	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	104	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18	l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19	l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20	l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21	l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22	l4	1254-5	0.071	0.000	100.0#	0#	-3.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
14) i	2154_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.602	337.4E6	224.1E6	15.558M3	15.077
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.79%	75.39%
3) s	Decachlorobi	4.021	4.534	502.9E6	247.4E6	35.890	35.352
	Spiked Amount 20.000	Range 30 - 150		Recovery =		179.45%#	176.76%#
	Target Compounds						
4) l1	1016-1	1.583	1.804	87072990	59177890	234.537M3	233.086
5) l1	1016-2	1.725	1.975	199.6E6	137.4E6	245.326M3	246.318
6) l1	1016-3	1.915	2.176	442.9E6	266.4E6	264.722M4	238.852
7) l1	1016-4	1.970	2.236	175.5E6	101.6E6	263.118M3	246.165M3
8) l1	1016-5	2.141	2.447	180.9E6	78078033	244.472M4	223.279M4
Sum	1016-1			1086.0E6	642.6E6	1252.176	1187.700
Average	1016-1					250.435	237.540
9) l2	1260-1	2.686	3.058	275.6E6	143.8E6	258.098	220.798M4
10) l2	1260-2	2.816	3.159	415.7E6	168.9E6	258.251M3	226.712M4
11) l2	1260-3	3.132	3.553	213.9E6	132.2E6	213.888M4	228.710

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.288	3.682	465.4E6	249.7E6	217.191M3	214.943
13) l2	1260-5	3.436	3.885	339.8E6	181.9E6	226.233M4	228.376
Sum	1260-1			1710.4E6	876.4E6	1173.661	1119.539
Average	1260-1					234.732	223.908
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

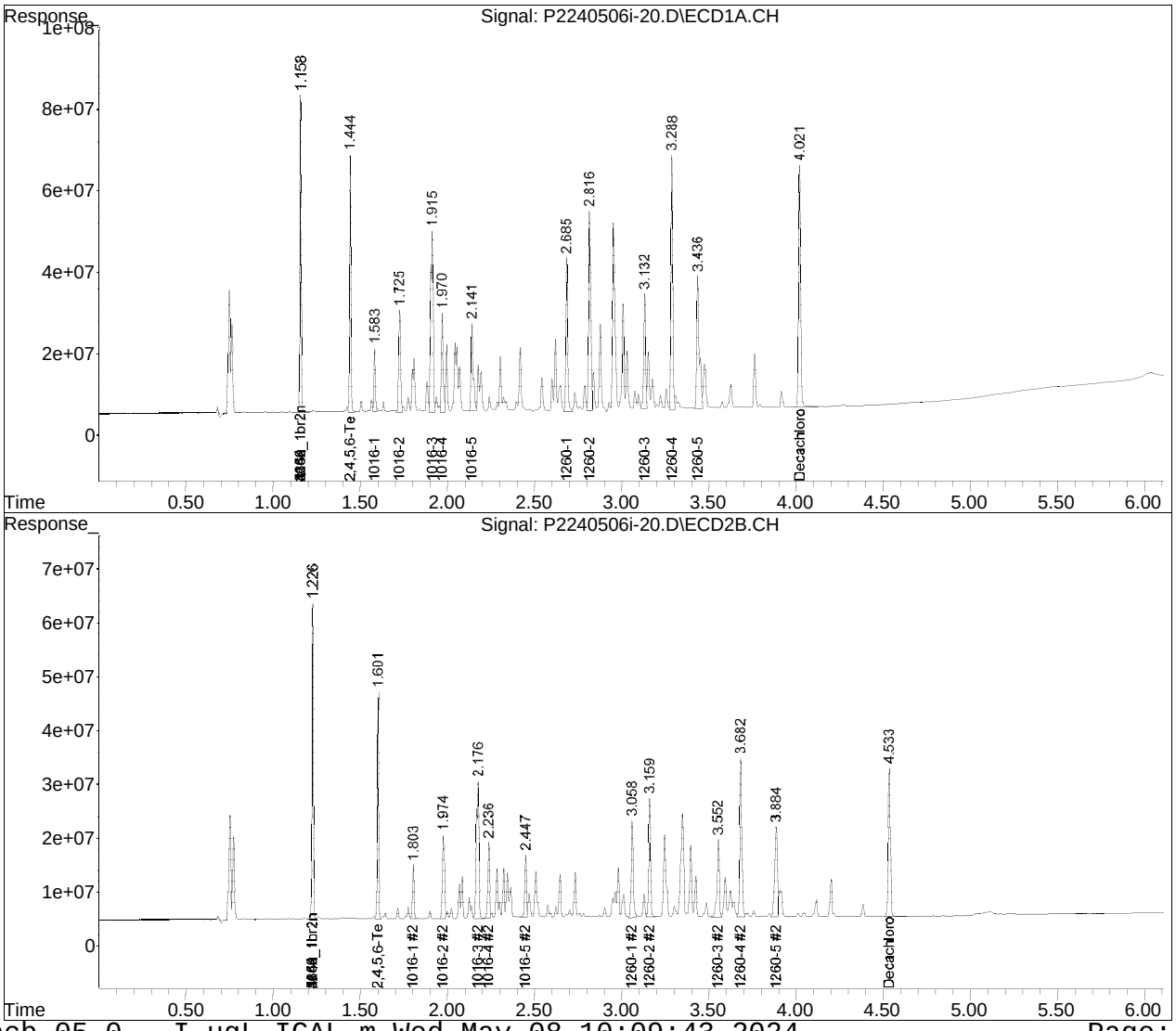
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

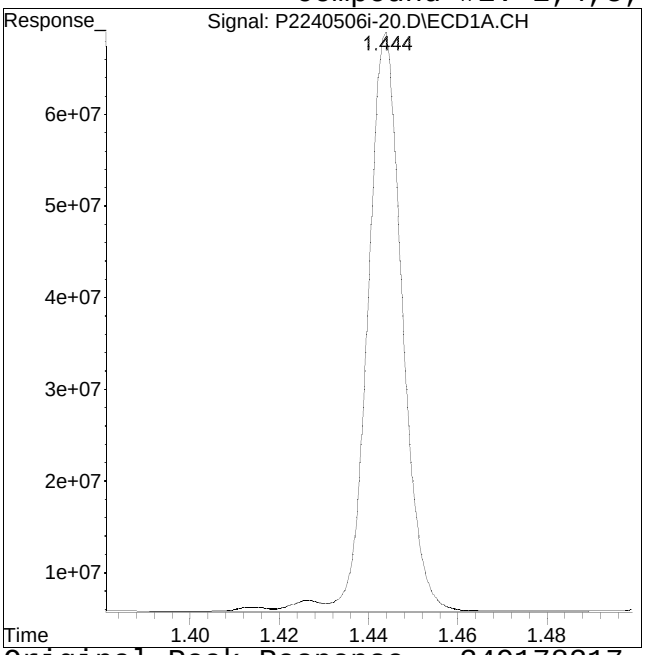
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

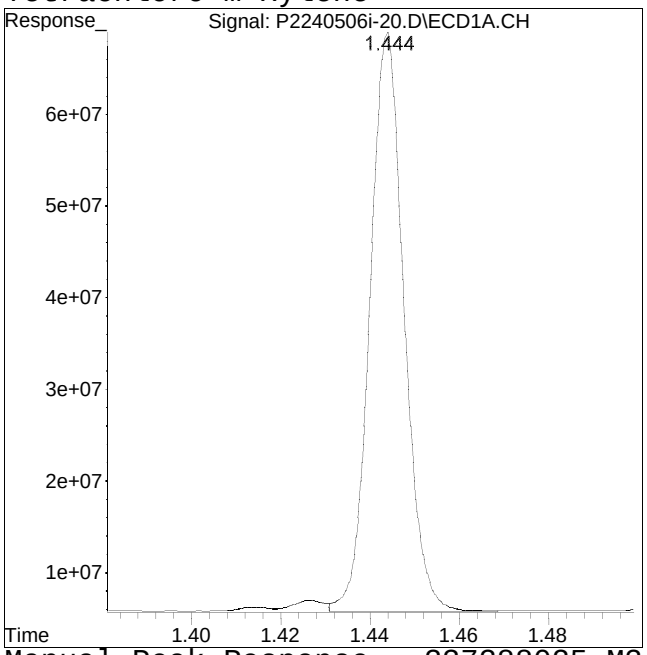


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



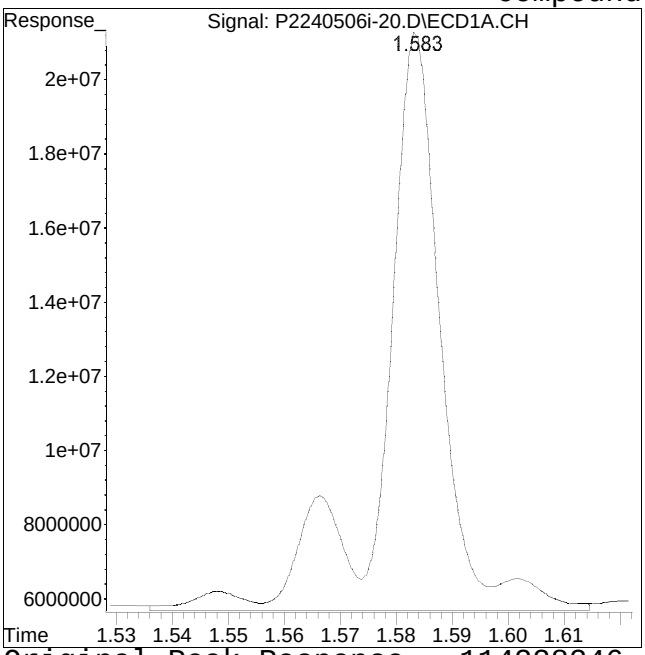


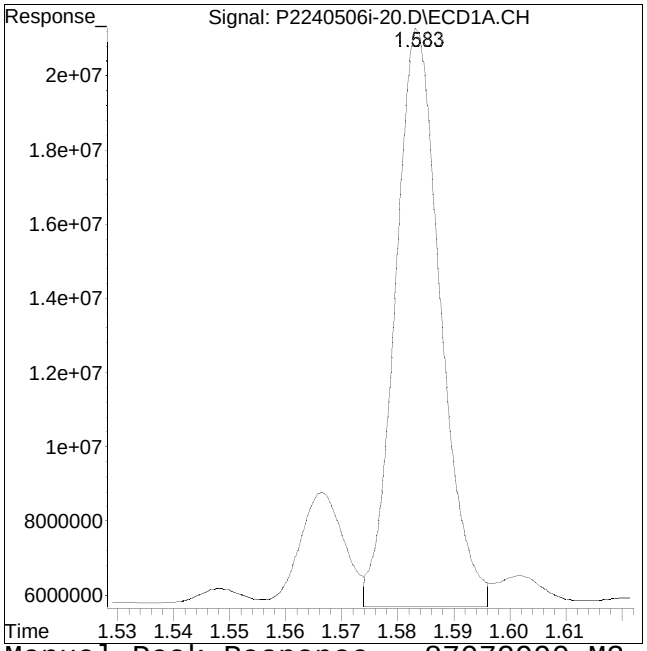
Original Peak Response = 349178317 Manual Peak Response = 337388025 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #4: 1016-1



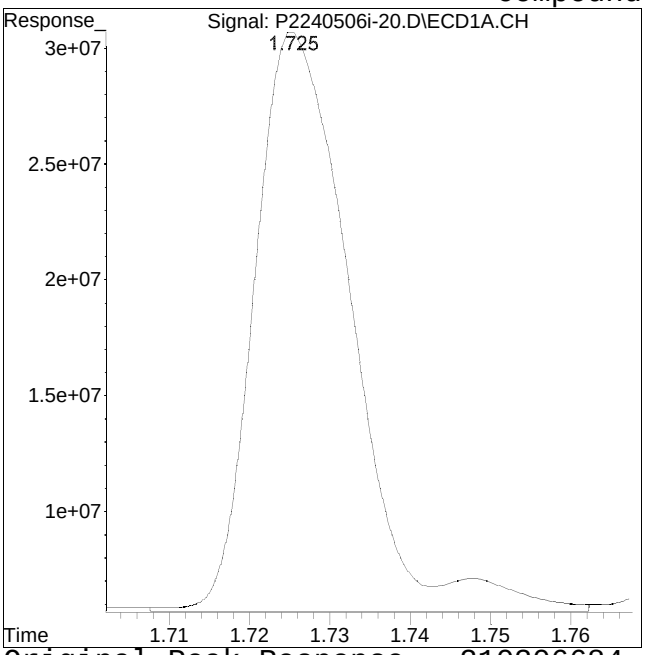


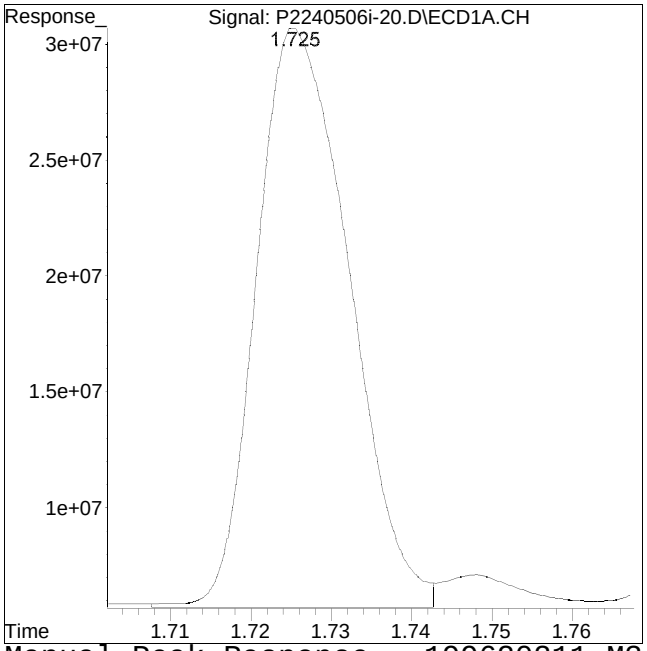
Original Peak Response = 114228246 Manual Peak Response = 87072990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #5: 1016-2



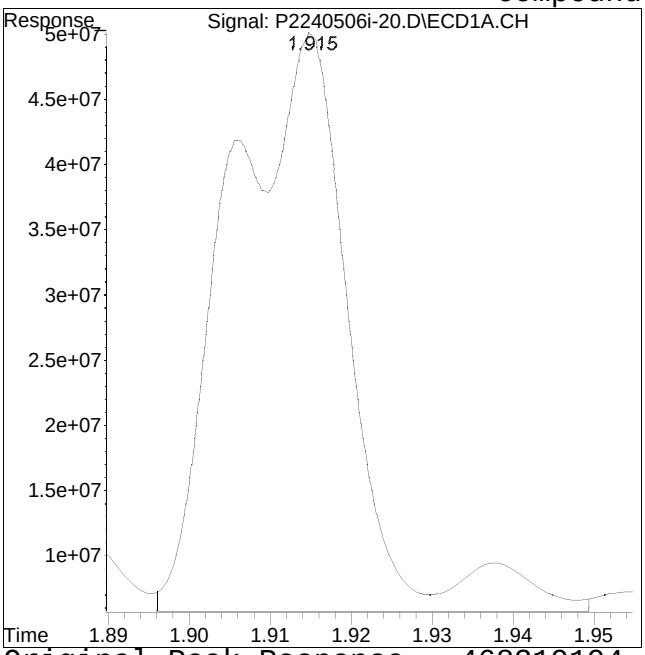


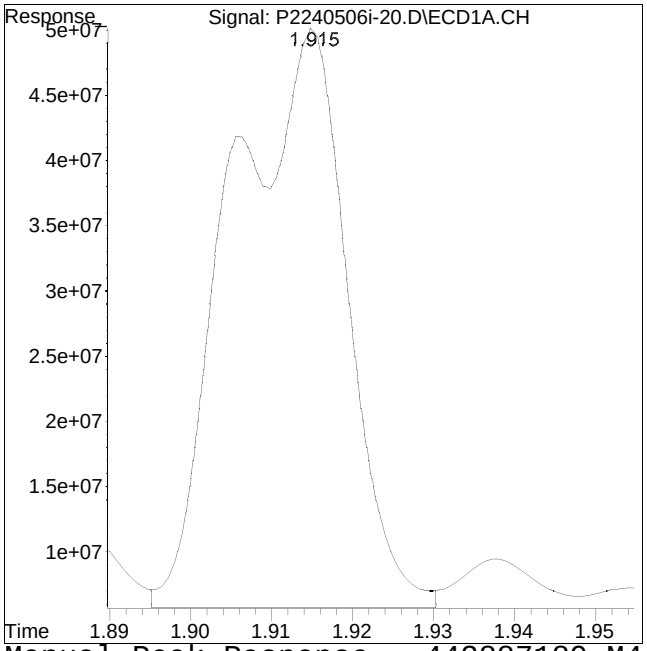
Original Peak Response = 210306684 Manual Peak Response = 199620211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #6: 1016-3



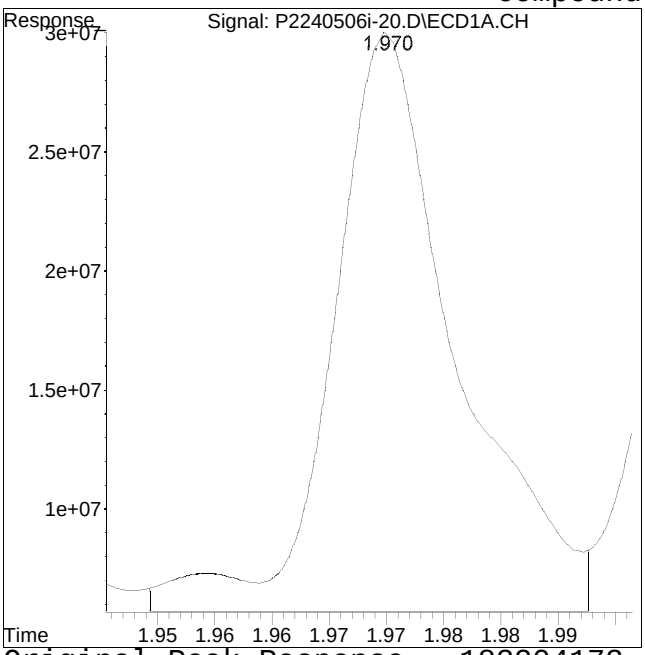


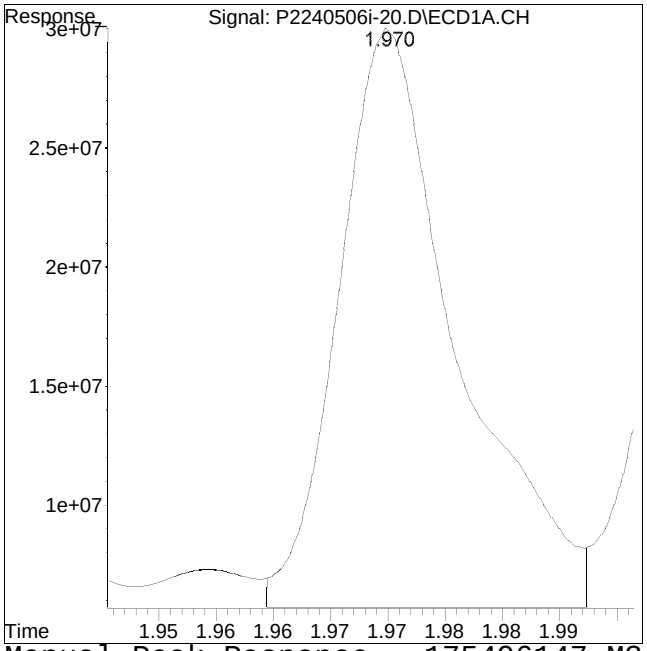
Original Peak Response = 468319194 Manual Peak Response = 442887189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #7: 1016-4



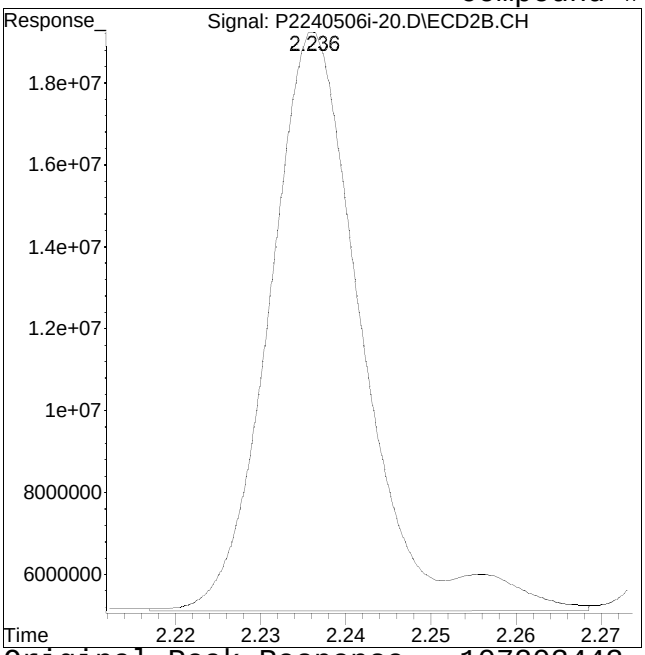


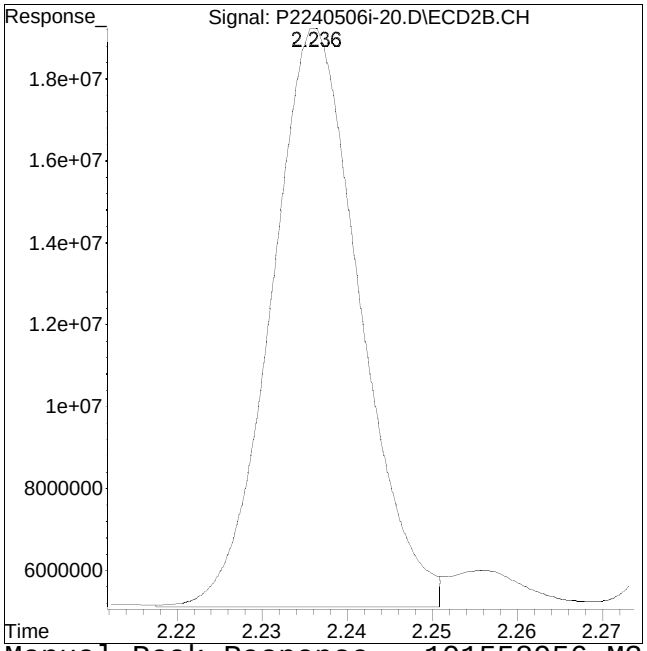
Original Peak Response = 183204173 Manual Peak Response = 175496147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #58: 1016-4 #2



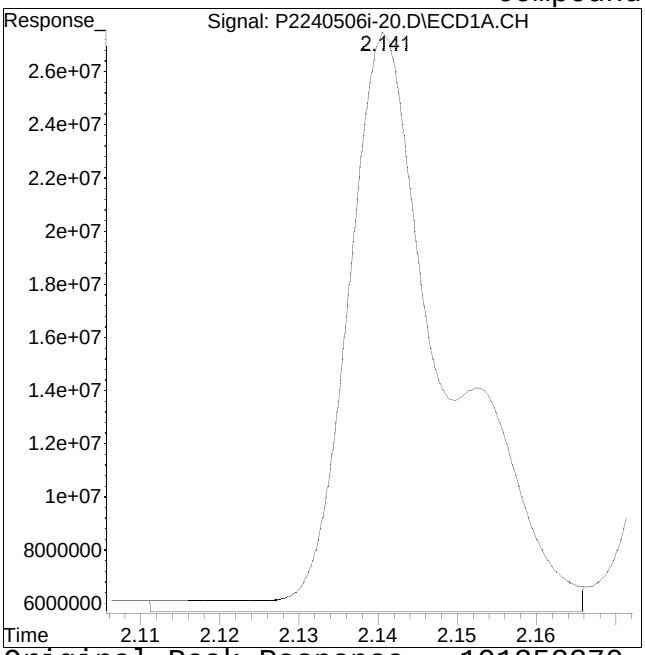


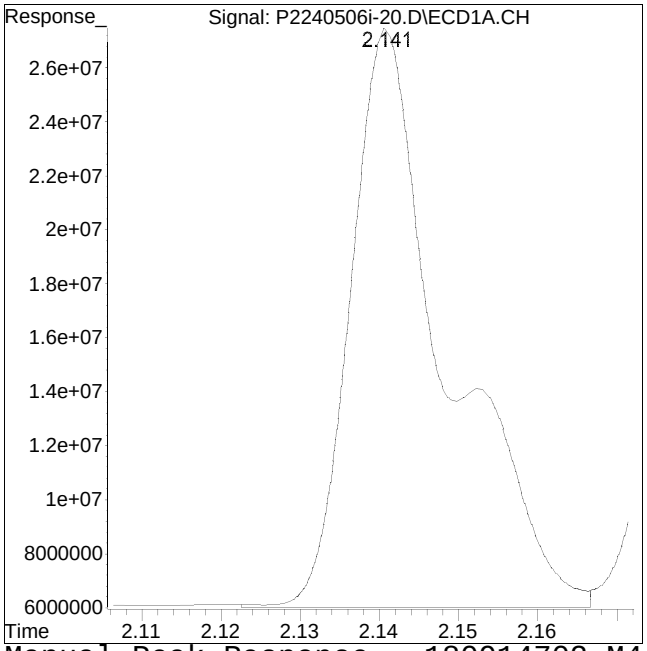
Original Peak Response = 107203443 Manual Peak Response = 101558956 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #8: 1016-5



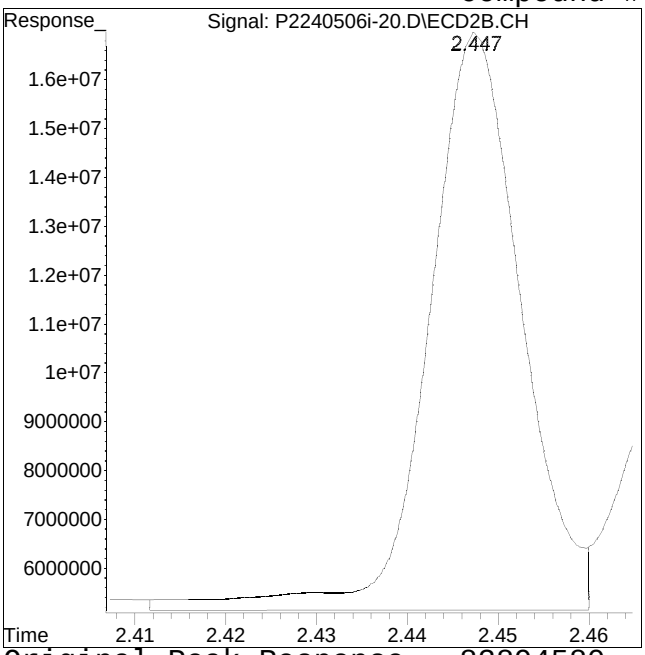


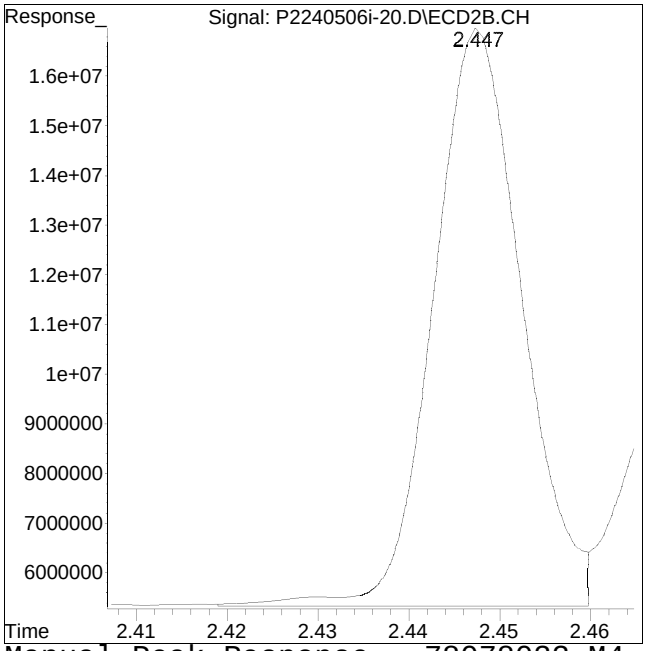
Original Peak Response = 191352370 Manual Peak Response = 180914702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #59: 1016-5 #2



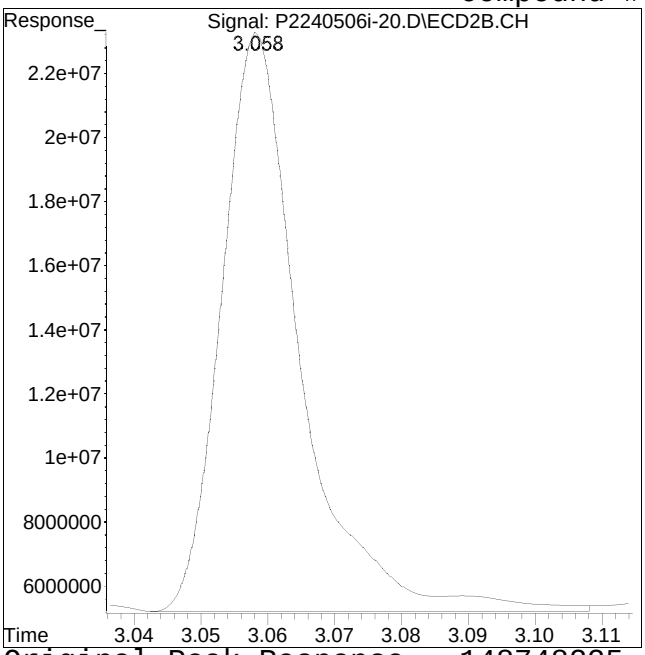


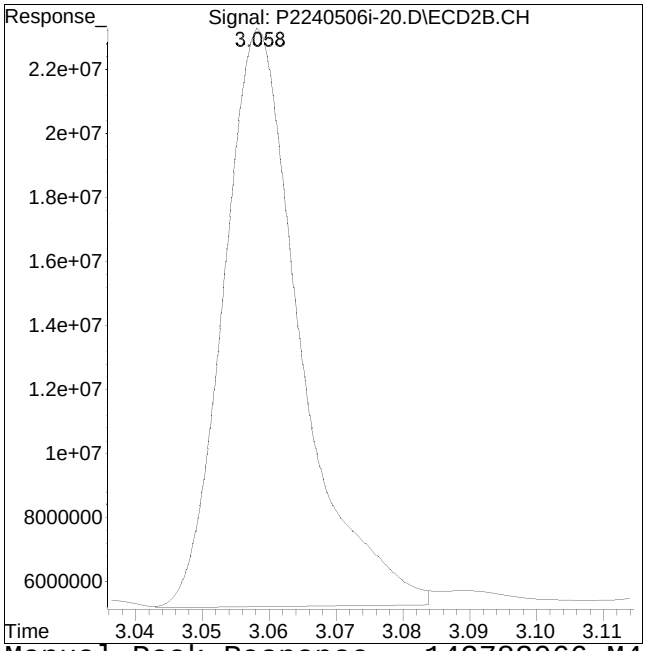
Original Peak Response = 83894580 Manual Peak Response = 78078033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #60: 1260-1 #2



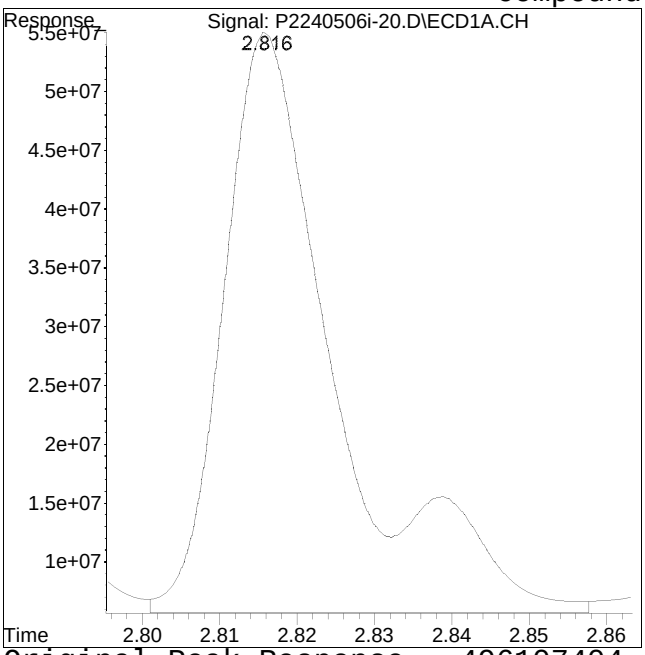


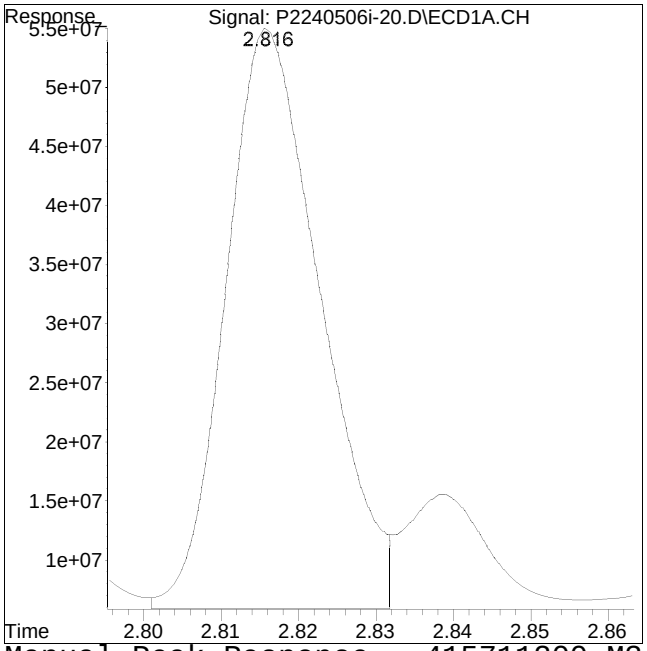
Original Peak Response = 148748225 Manual Peak Response = 143783066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #10: 1260-2



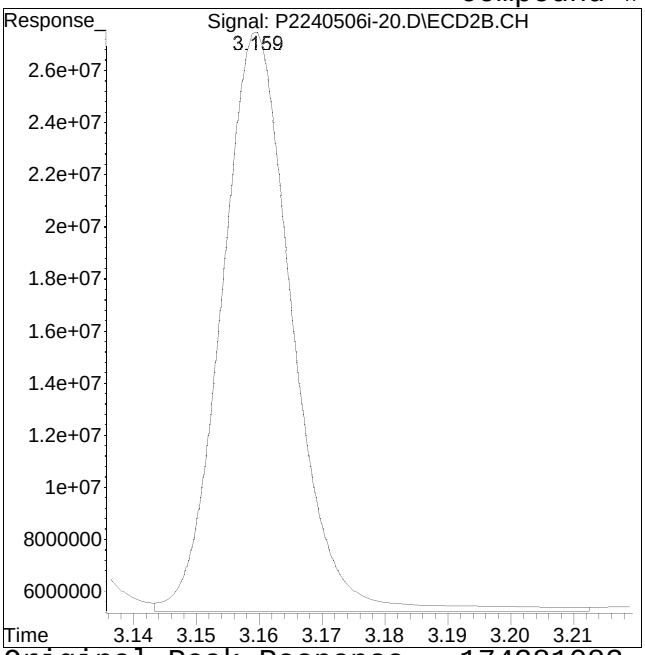


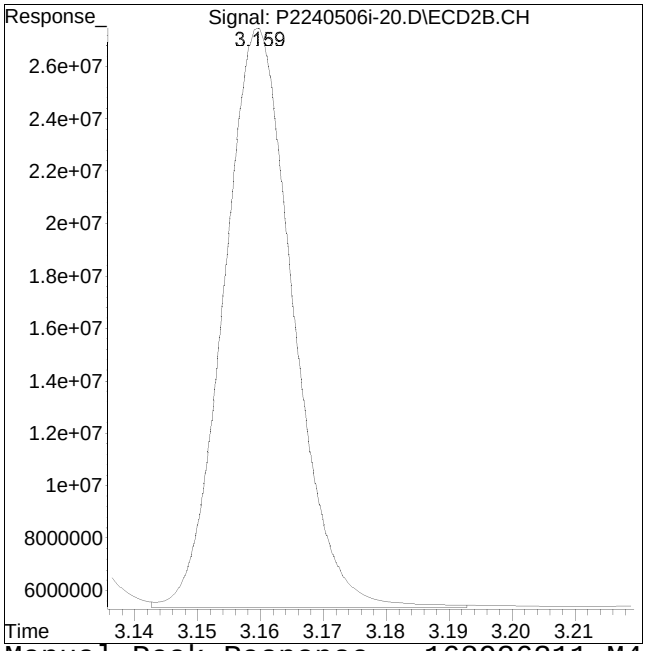
Original Peak Response = 496107404 Manual Peak Response = 415711200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #61: 1260-2 #2



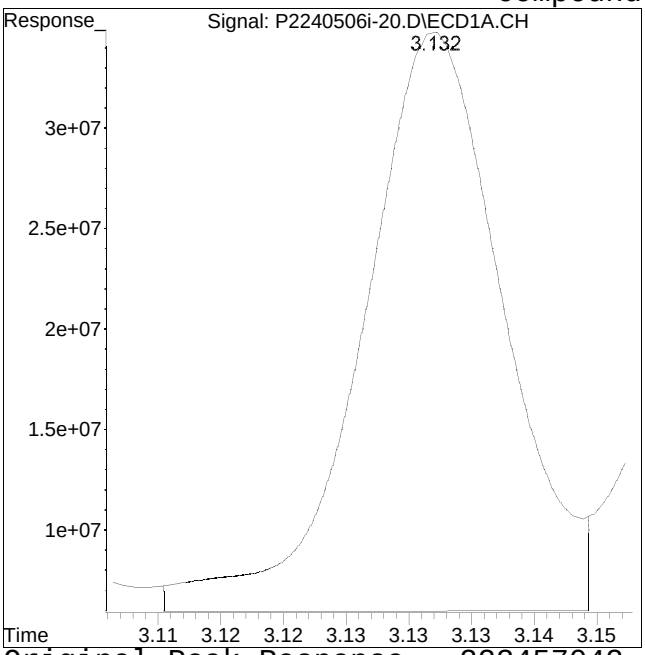


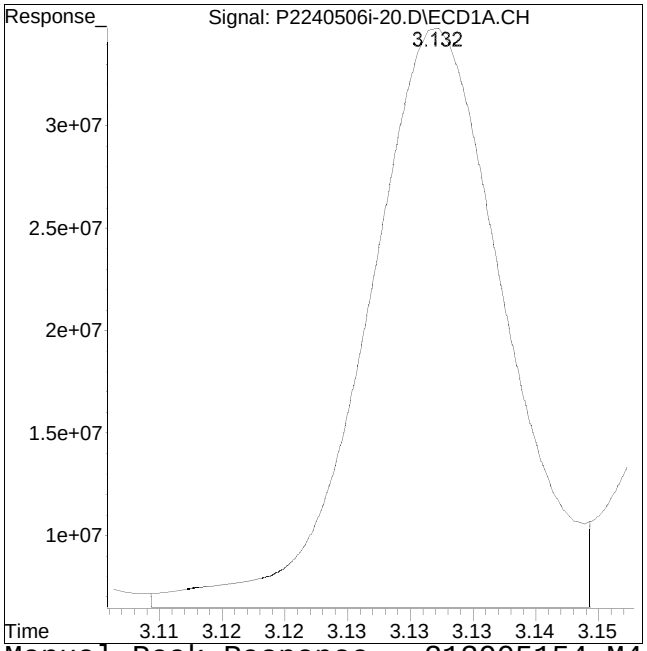
Original Peak Response = 174381083 Manual Peak Response = 168936311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #11: 1260-3



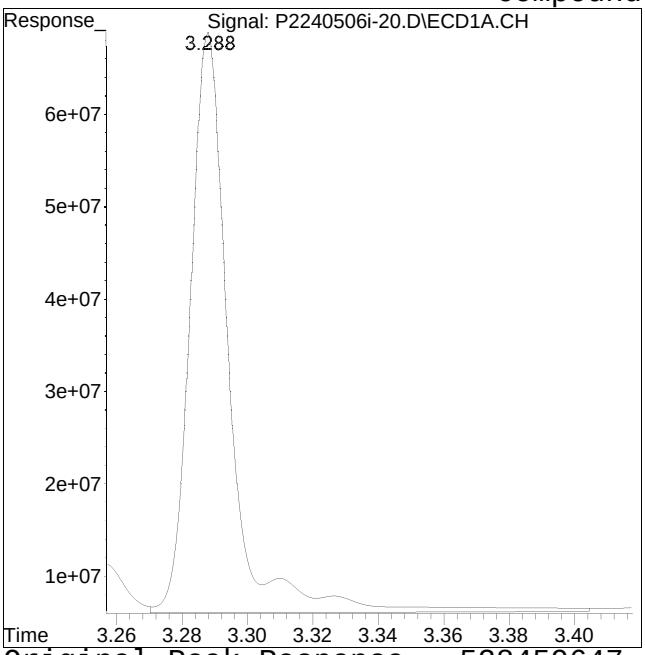


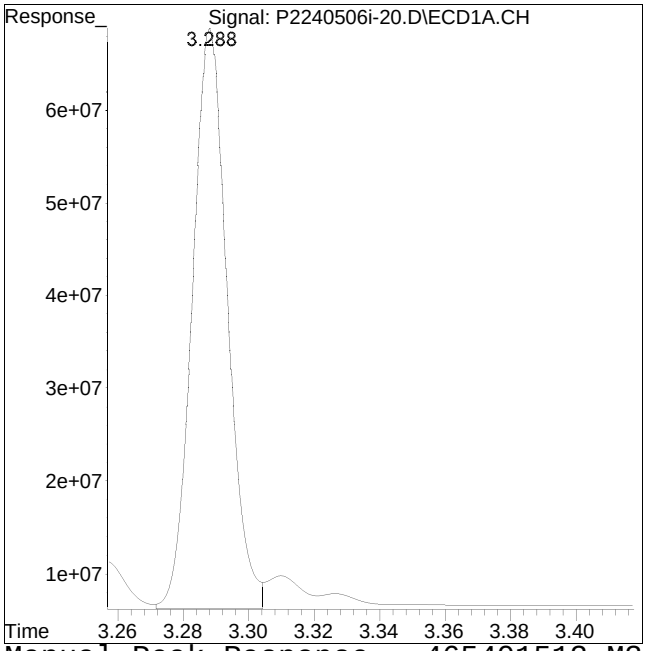
Original Peak Response = 223457042 Manual Peak Response = 213905154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #12: 1260-4



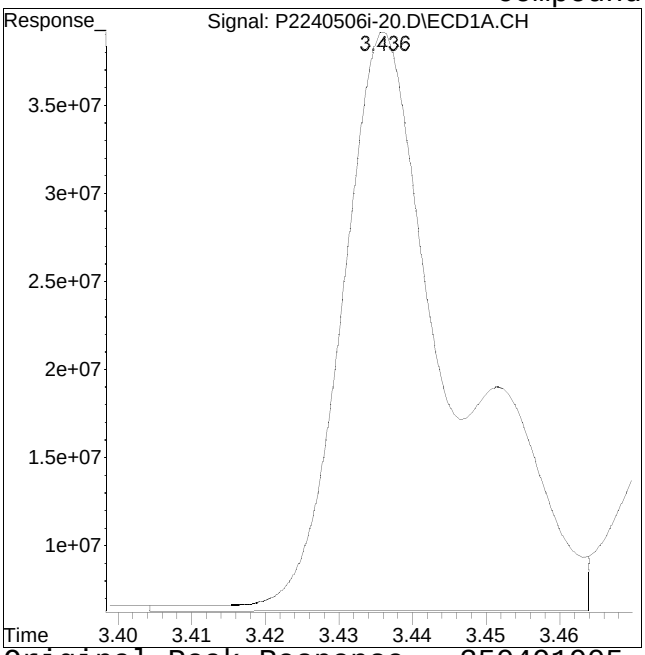


Original Peak Response = 528459647 Manual Peak Response = 465401513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

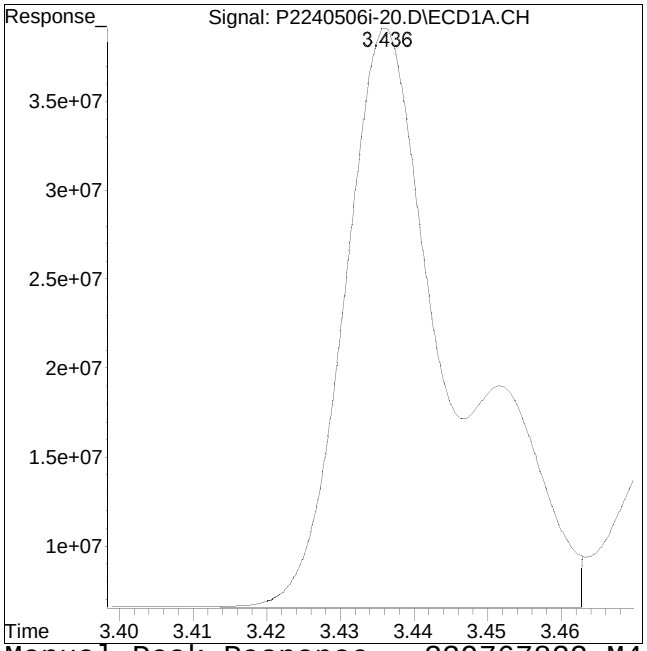
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #13: 1260-5



Original Peak Response = 350491905



Manual Peak Response = 339767822 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/18/24 23:56		
Lab File ID	: P2240618a-17	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1935684-5	**Init. Calib. Times**	: 20:49	15:31	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	82	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.732	-	-32.1*	20	86	0
Decachlorobiphenyl	0.847	1.022	-	-20.7*	20	81	0
1016-1	0.022	0.026	-	-18.2	20	79	0
1016-2	0.049	0.052	-	-6.1	20	71	0
1016-3	0.101	0.124	-	-22.8*	20	80	0
1016-4	0.04	0.048	-	-20	20	79	0
1016-5	0.045	0.051	-	-13.3	20	78	0
1260-1	0.065	0.072	-	-10.8	20	76	0
1260-2	0.097	0.108	-	-11.3	20	75	0
1260-3	0.06	0.067	-	-11.7	20	75	0
1260-4	0.13	0.139	-	-6.9	20	71	0
1260-5	0.091	0.097	-	-6.6	20	71	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 06/18/24 23:56		
Lab File ID	: P2240618a-17	**Init. Calib. Date(s)**	: 05/06/24	05/07/24	
Sample No	: WG1935684-5	**Init. Calib. Times**	: 20:49	15:31	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	81	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.424	-	-15.6	20	75	0
Decachlorobiphenyl #2	0.58	0.821	-	-41.6*	20	97	-.02
1016-1 #2	0.021	0.024	-	-14.3	20	75	0
1016-2 #2	0.046	0.053	-	-15.2	20	76	0
1016-3 #2	0.092	0.104	-	-13	20	75	0
1016-4 #2	0.034	0.042	-	-23.5*	20	80	-.01
1016-5 #2	0.029	0.035	-	-20.7*	20	78	-.01
1260-1 #2	0.054	0.056	-	-3.7	20	75	-.01
1260-2 #2	0.062	0.073	-	-17.7	20	83	-.01
1260-3 #2	0.048	0.061	-	-27.1*	20	85	-.01
1260-4 #2	0.096	0.119	-	-24*	20	83	-.01
1260-5 #2	0.066	0.085	-	-28.8*	20	85	-.01

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi ccv (Sig #2)
Misc : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	82	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.732	-32.1#	86	0.00
3	s	Decachlorobiphenyl		0.847	1.022	-20.7#	81	0.00
4	l1	1016-1		0.022	0.026	-18.2	79	0.00
5	l1	1016-2		0.049	0.052	-6.1	71	0.00
6	l1	1016-3		0.101	0.124	-22.8#	80	0.00
7	l1	1016-4		0.040	0.048	-20.0	79	0.00
8	l1	1016-5		0.045	0.051	-13.3	78	0.00
9	l2	1260-1		0.065	0.072	-10.8	76	0.00
10	l2	1260-2		0.097	0.108	-11.3	75	0.00
11	l2	1260-3		0.060	0.067	-11.7	75	0.00
12	l2	1260-4		0.130	0.139	-6.9	71	0.00
13	l2	1260-5		0.091	0.097	-6.6	71	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	81	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.424	-15.6	75	0.00
54	s	Decachlorobiphenyl #2		0.580	0.821	-41.6#	97	-0.02
55	l1	1016-1 #2		0.021	0.024	-14.3	75	0.00
56	l1	1016-2 #2		0.046	0.053	-15.2	76	0.00
57	l1	1016-3 #2		0.092	0.104	-13.0	75	0.00
58	l1	1016-4 #2		0.034	0.042	-23.5#	80	-0.01
59	l1	1016-5 #2		0.029	0.035	-20.7#	78	-0.01
60	l2	1260-1 #2		0.054	0.056	-3.7	75	-0.01
61	l2	1260-2 #2		0.062	0.073	-17.7	83	-0.01
62	l2	1260-3 #2		0.048	0.061	-27.1#	85	-0.01
63	l2	1260-4 #2		0.096	0.119	-24.0#	83	-0.01
64	l2	1260-5 #2		0.066	0.085	-28.8#	85	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample   : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi ccv (Sig #2)
Misc   : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi ccv (Sig #2)
Misc : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.157	1.224	342.0E6	250.3E6	25.000	25.000M3
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.441	1.598	379.1E6	228.1E6	21.142	18.500
	Spiked Amount	20.000	Range 30 - 150		Recovery =	105.71%	92.50%
3) s	Decachlorobi	4.012	4.520	447.5E6	263.1E6	38.618	45.310
	Spiked Amount	20.000	Range 30 - 150		Recovery =	193.09%#	226.55%#
	Target Compounds						
4) l1	1016-1	1.580	1.799	88823246	59160785	289.332M2	280.862
5) l1	1016-2	1.721	1.969	177.9E6	131.9E6	264.398M2	285.022
6) l1	1016-3	1.910	2.169	423.9E6	261.4E6	306.413M3	282.414M3
7) l1	1016-4	1.964	2.229	163.1E6	105.6E6	295.795M3	308.465M4
8) l1	1016-5	2.134	2.439	176.1E6	86690801	287.825M4	298.809M3
Sum	1016-1			1029.9E6	644.7E6	1443.763	1455.571
Average	1016-1					288.753	291.114
9) l2	1260-1	2.677	3.048	247.1E6	139.3E6	279.801M3	257.775M2
10) l2	1260-2	2.807	3.149	370.4E6	183.8E6	278.232M4	297.327M3
11) l2	1260-3	3.123	3.541	228.8E6	151.7E6	276.668M2	316.343M3
12) l2	1260-4	3.279	3.671	475.6E6	297.6E6	268.432M2	308.874M4

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi ccv (Sig #2)
Misc : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2 1260-5	3.427	3.873	332.2E6	211.8E6	267.503M4	320.547
Sum 1260-1			1654.1E6	984.2E6	1370.636	1500.866
Average 1260-1					274.127	300.173
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi ccv (Sig #2)
Misc : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

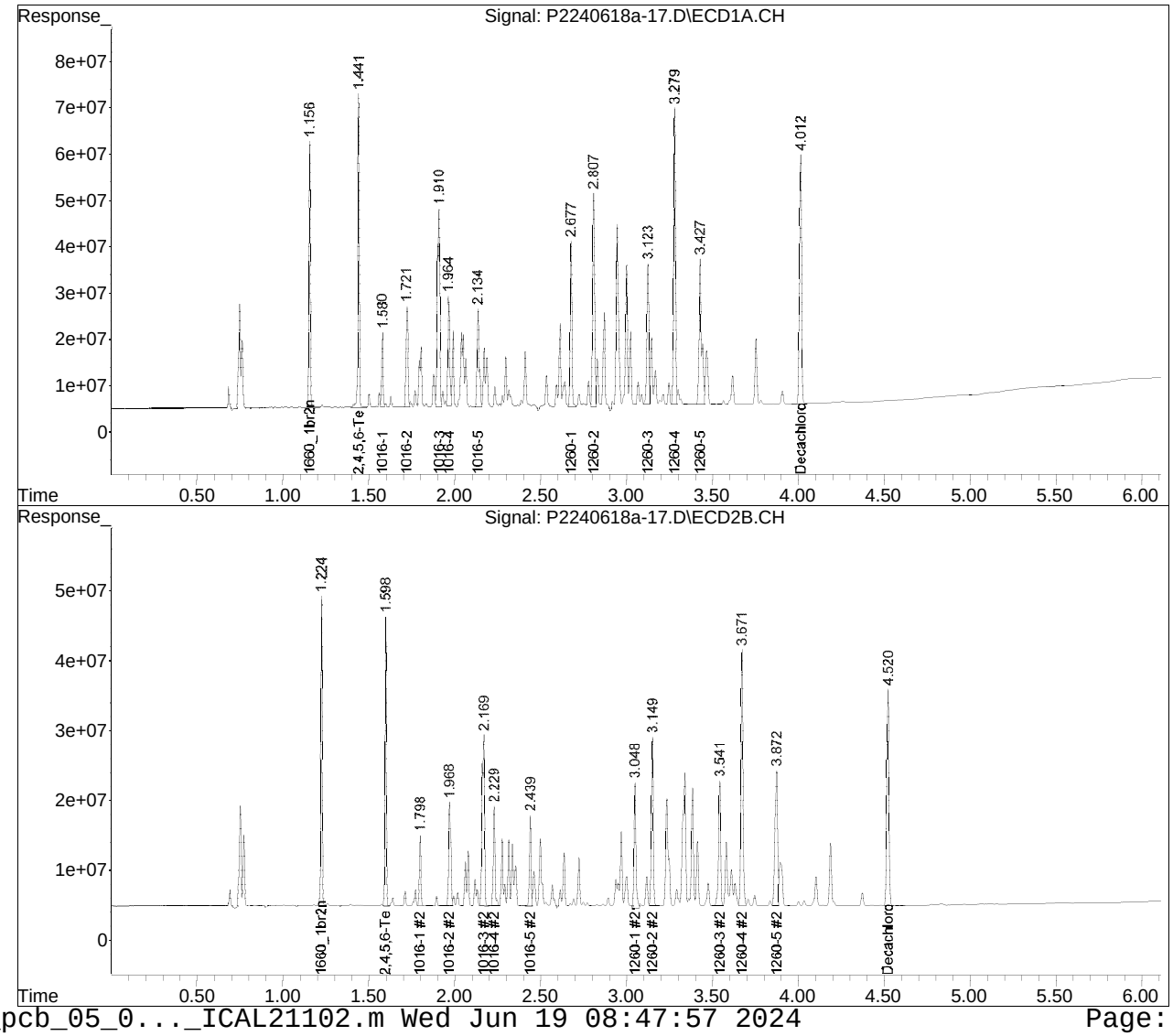
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618a\
Data File : P2240618a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Jun 2024 23:56
Operator : pest2:mhg
Sample : WG1935684-5,42,,+1660 pp11556 lvi ccv (Sig #1); +1660 pp11556 lvi
Misc : WG1935684,,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 00:10:51 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

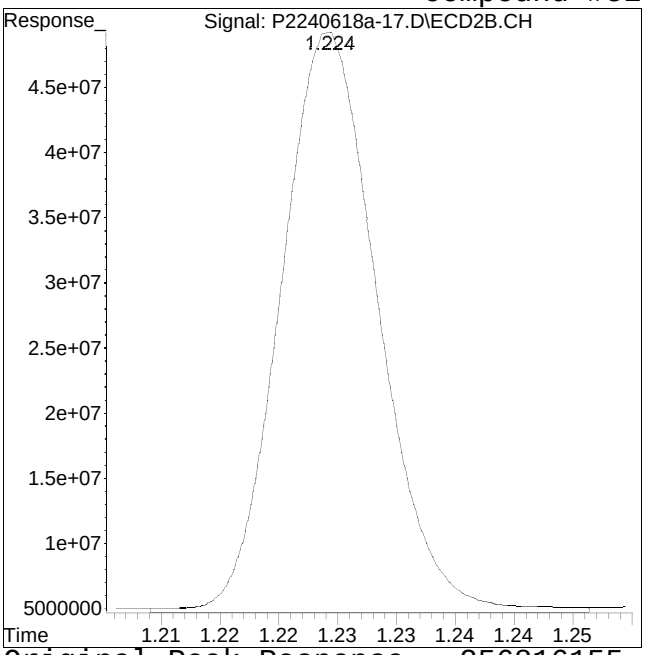
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

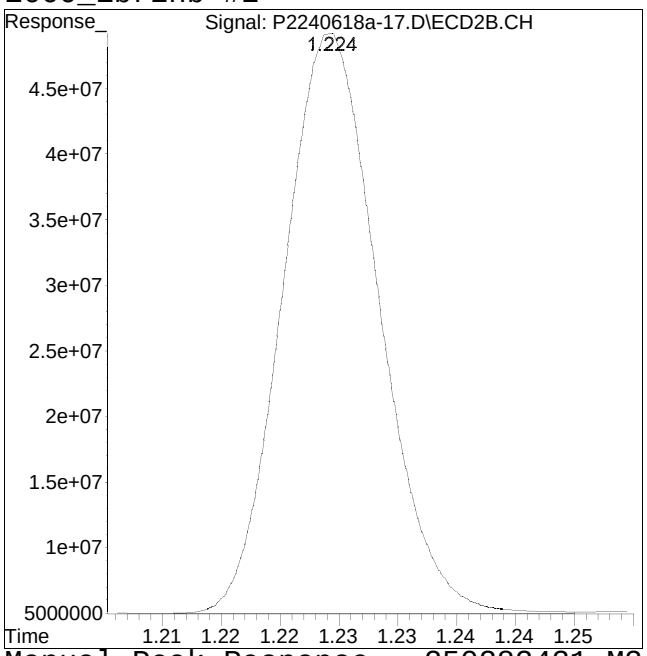


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #52: 1660_1br2nb #2



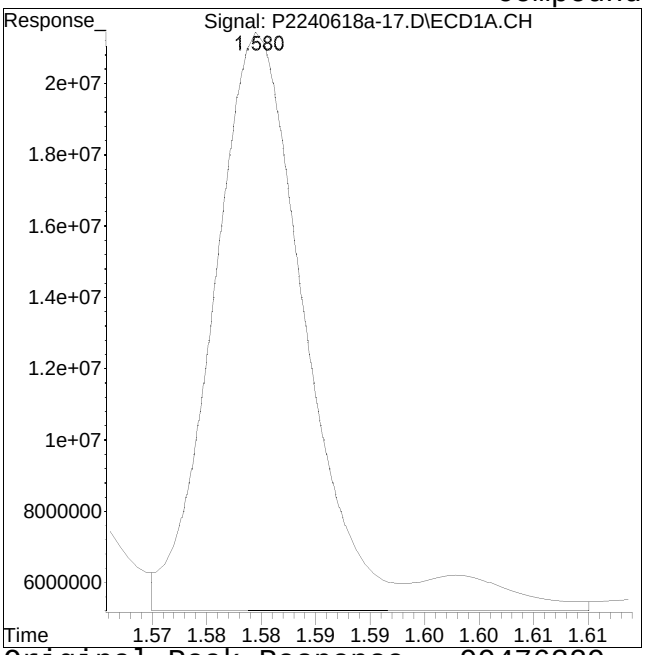


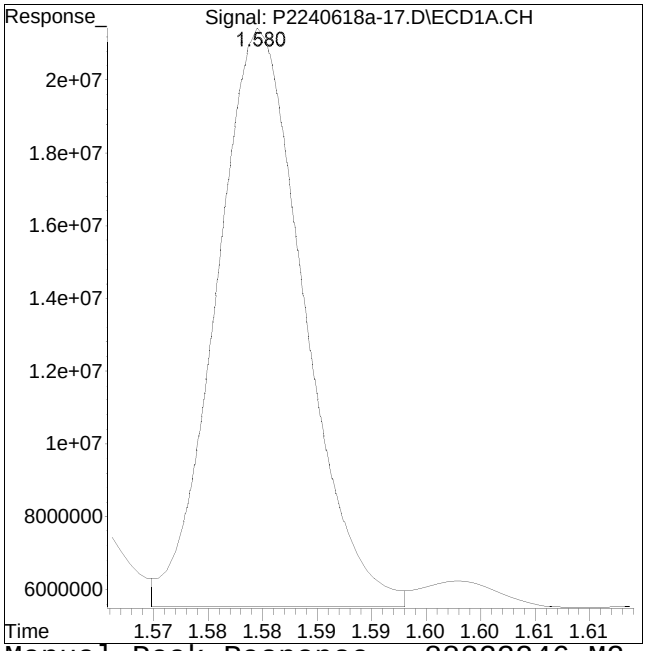
Original Peak Response = 256816155 Manual Peak Response = 250283431 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #4: 1016-1



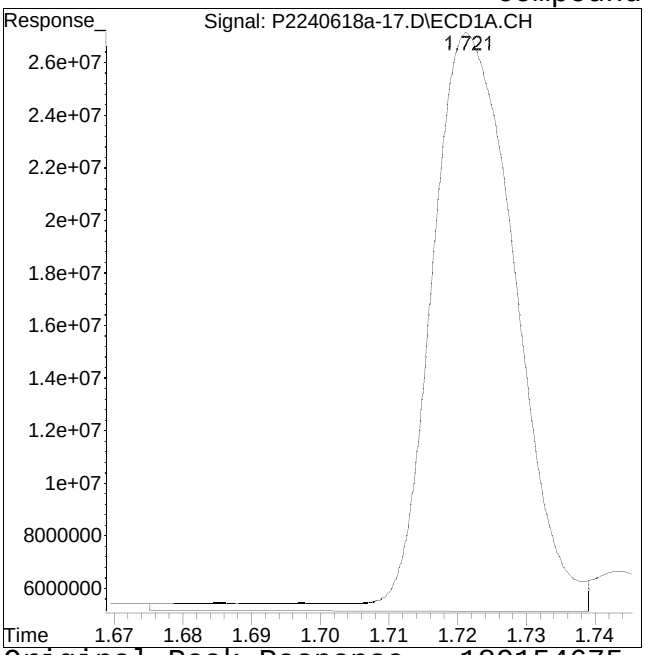


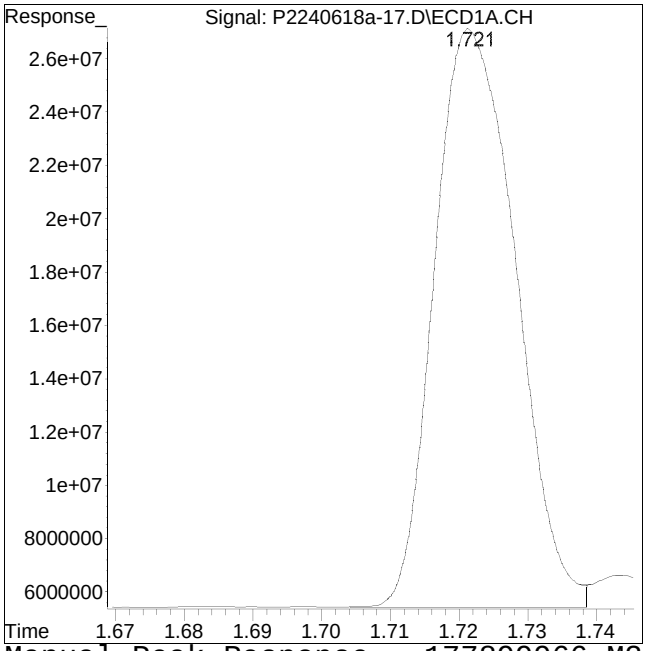
Original Peak Response = 99476329 Manual Peak Response = 88823246 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #5: 1016-2



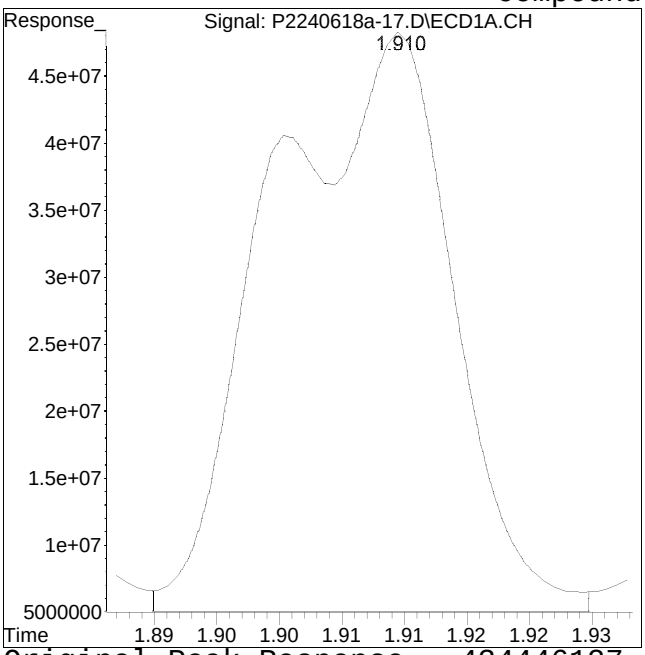


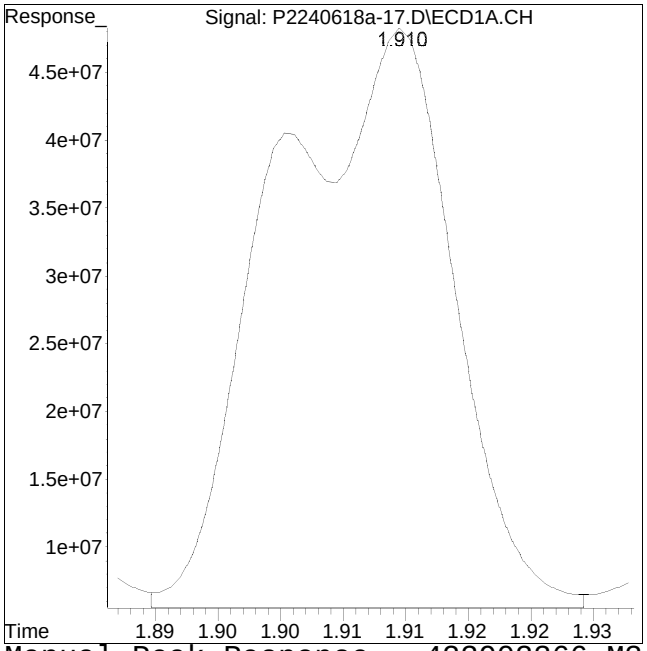
Original Peak Response = 189154675 Manual Peak Response = 177899966 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #6: 1016-3



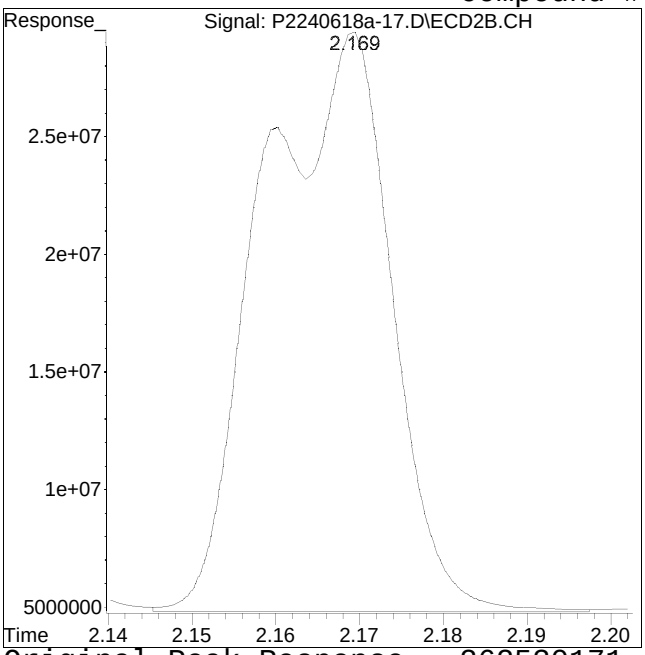


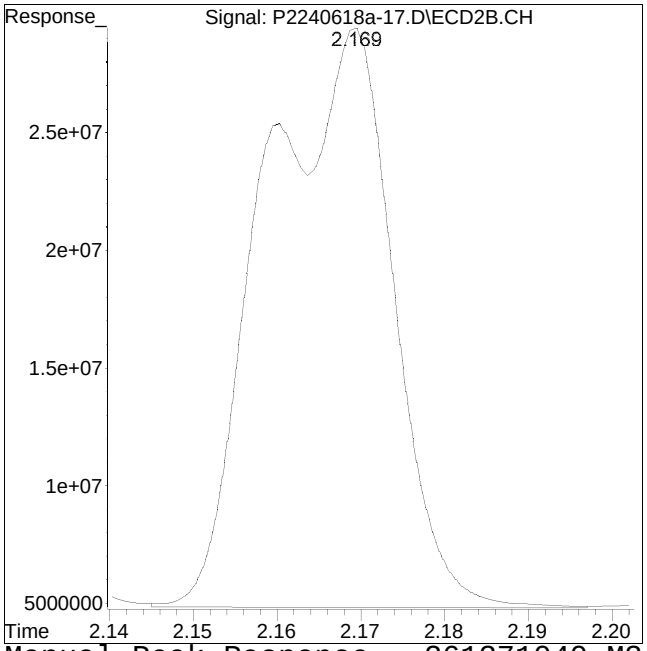
Original Peak Response = 434446127 Manual Peak Response = 423903366 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #57: 1016-3 #2



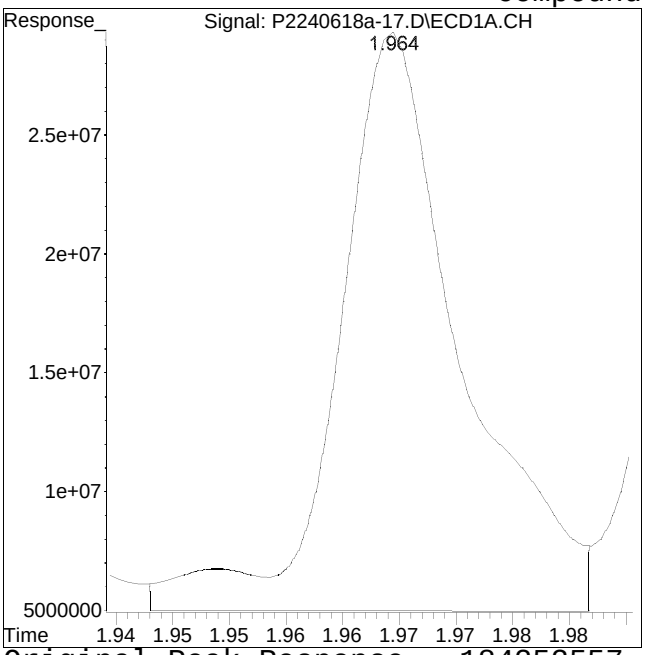


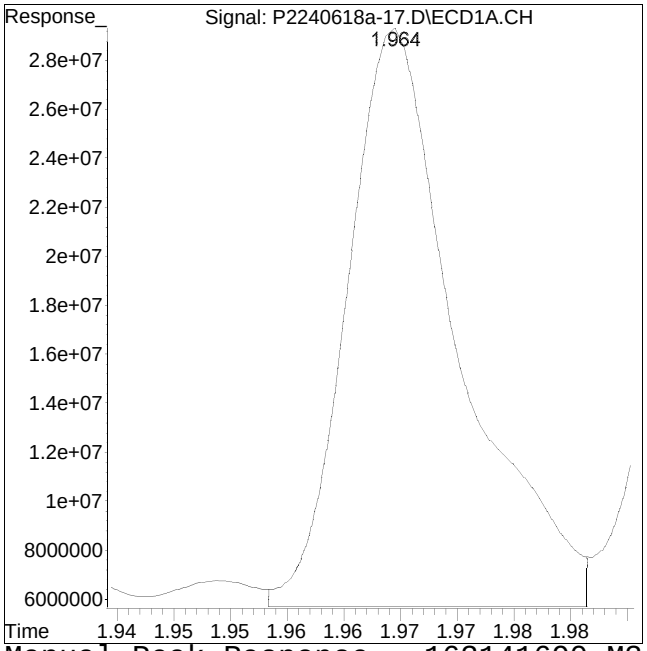
Original Peak Response = 262530171 Manual Peak Response = 261371040 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #7: 1016-4



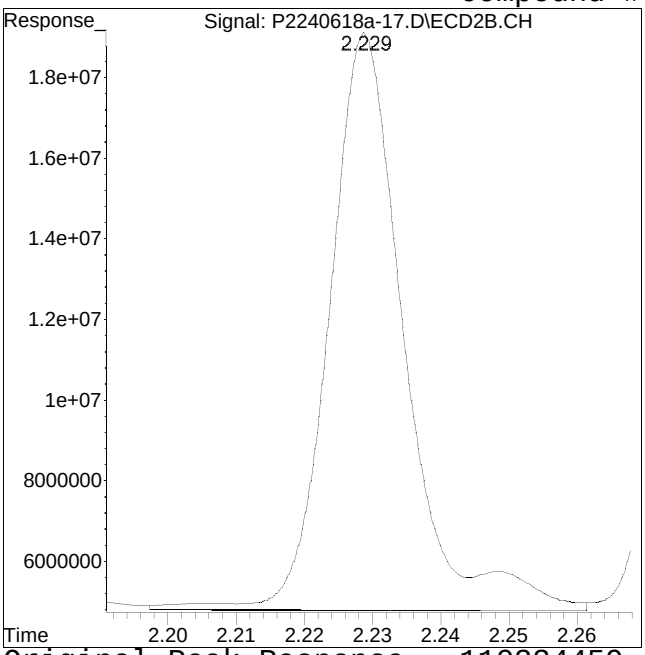


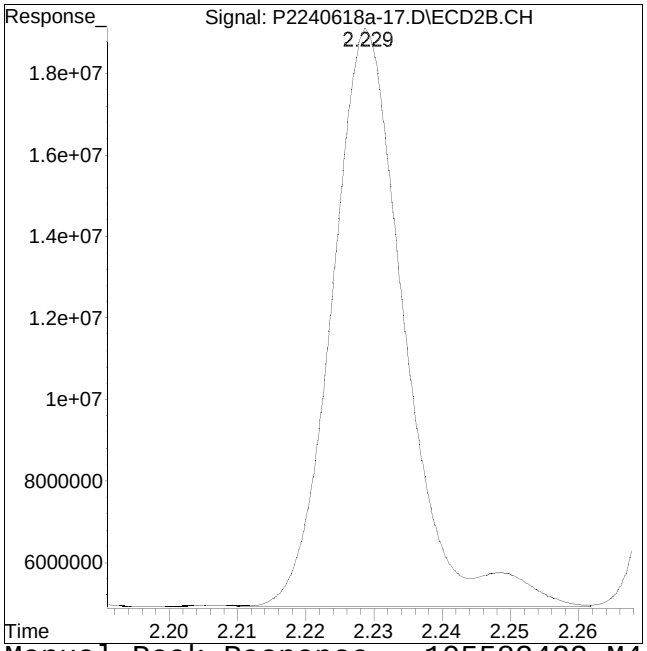
Original Peak Response = 184252557 Manual Peak Response = 163141690 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #58: 1016-4 #2



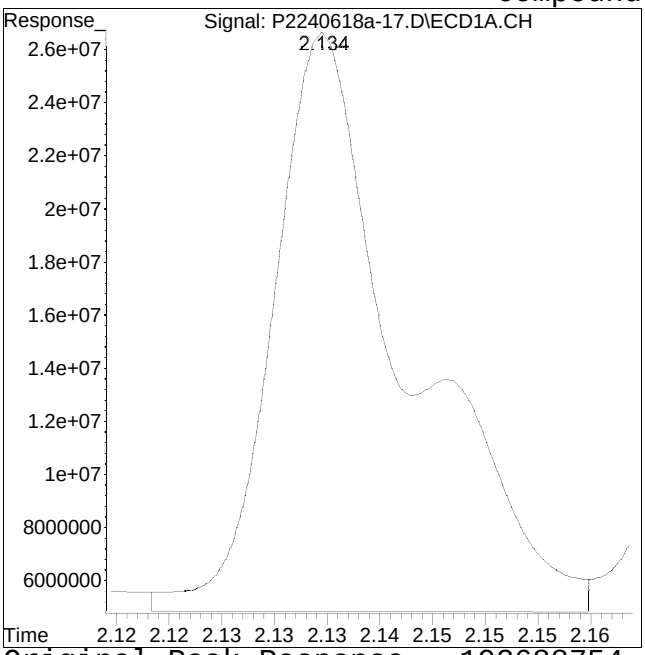


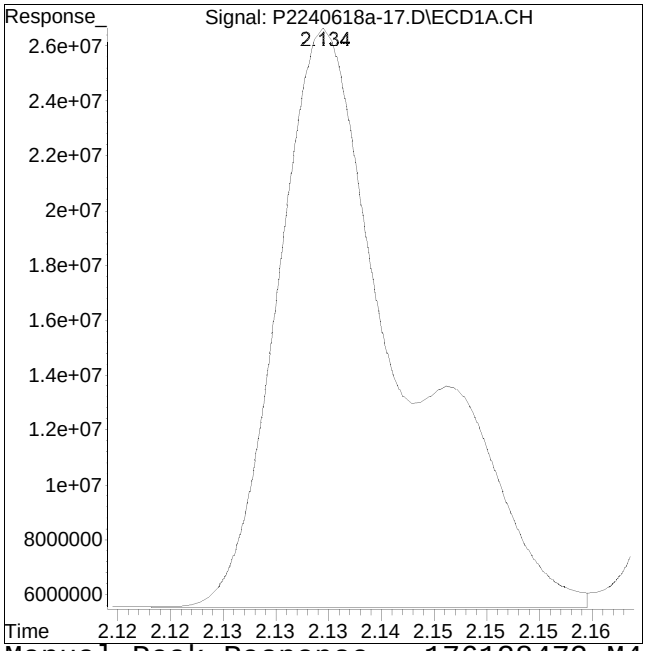
Original Peak Response = 110334459 Manual Peak Response = 105583422 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #8: 1016-5



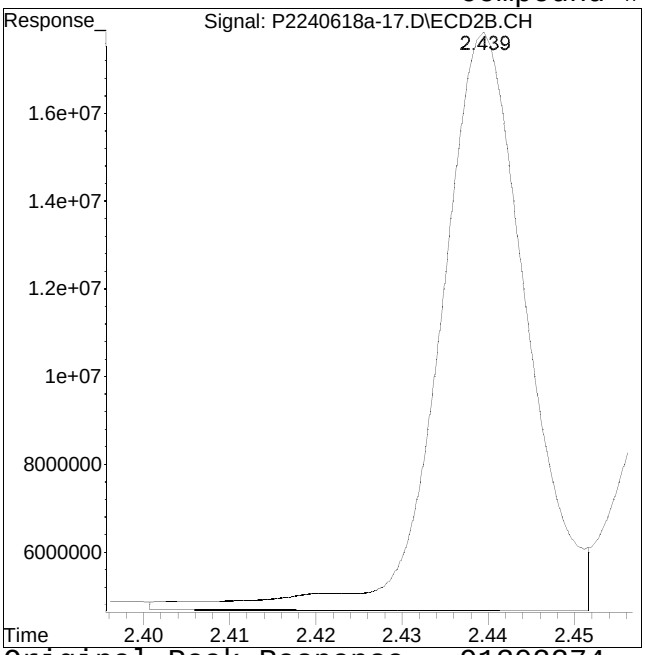


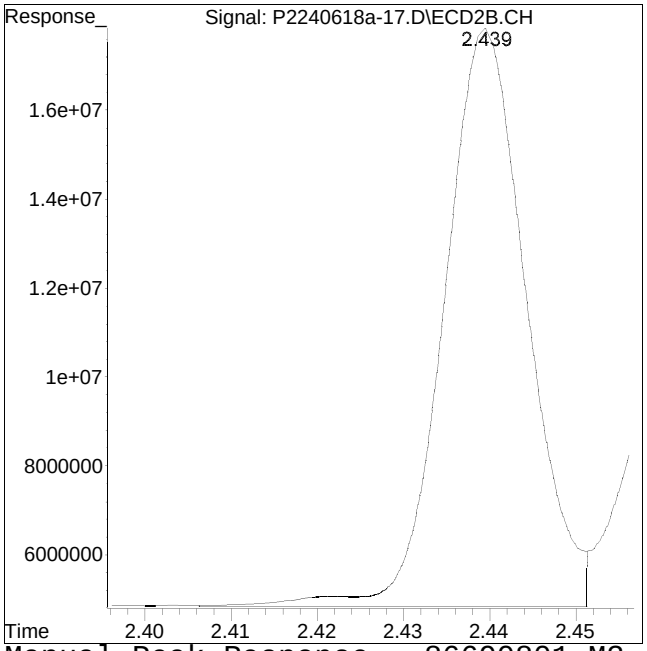
Original Peak Response = 192688754 Manual Peak Response = 176128472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #59: 1016-5 #2



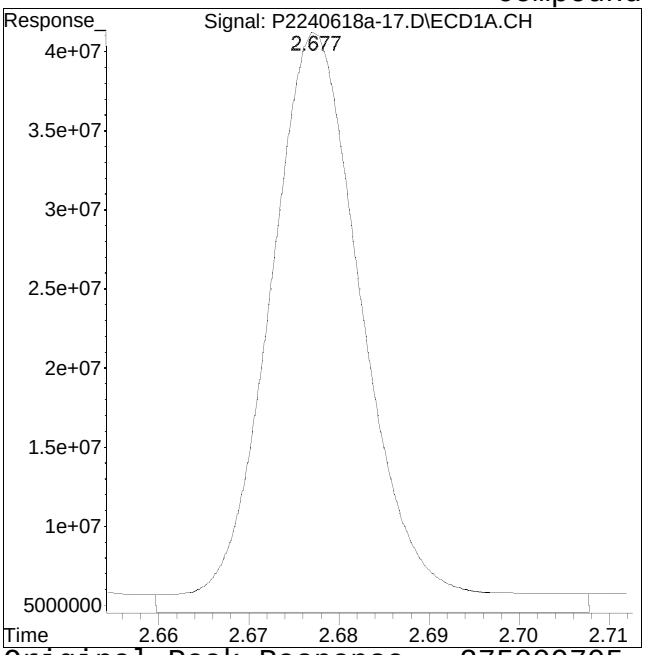


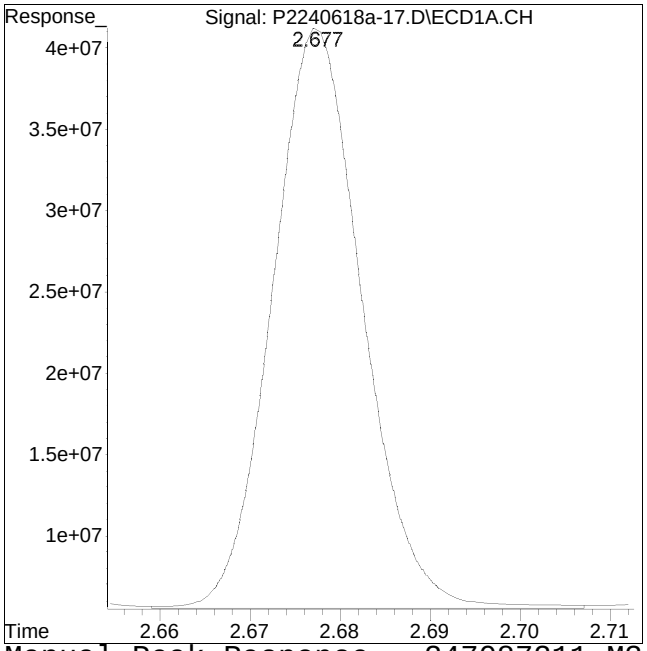
Original Peak Response = 91302274 Manual Peak Response = 86690801 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #9: 1260-1



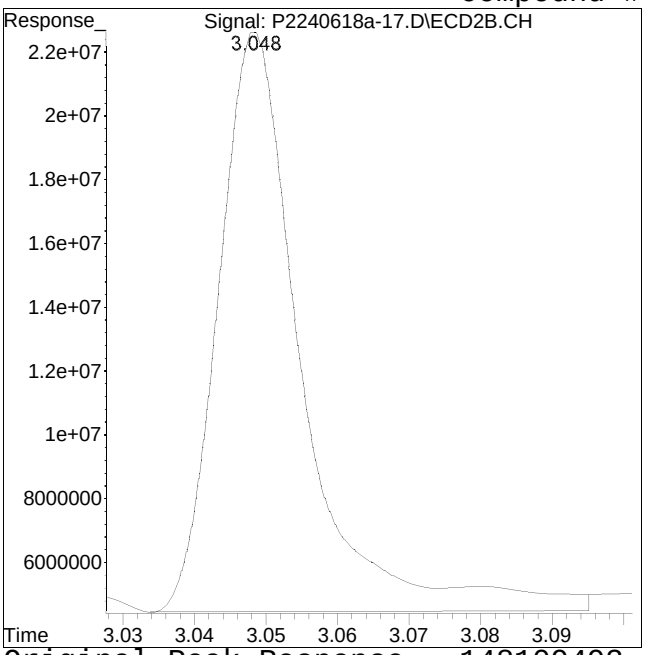


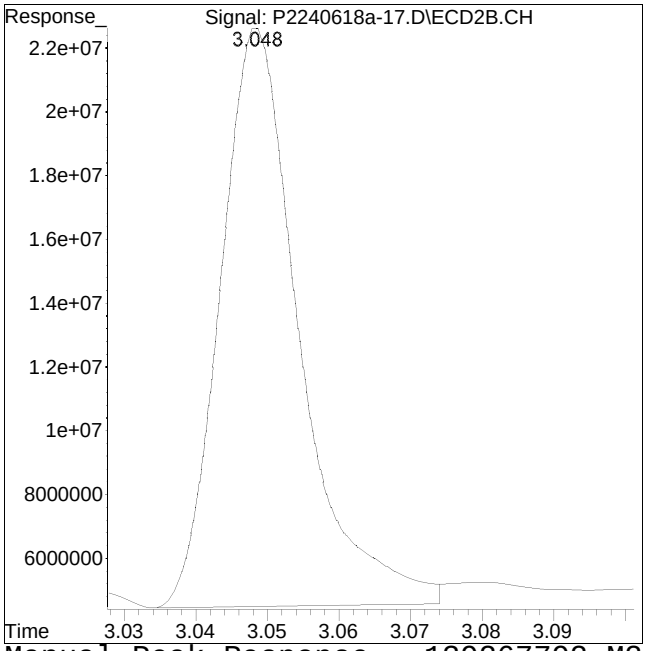
Original Peak Response = 275009705 Manual Peak Response = 247087211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #60: 1260-1 #2



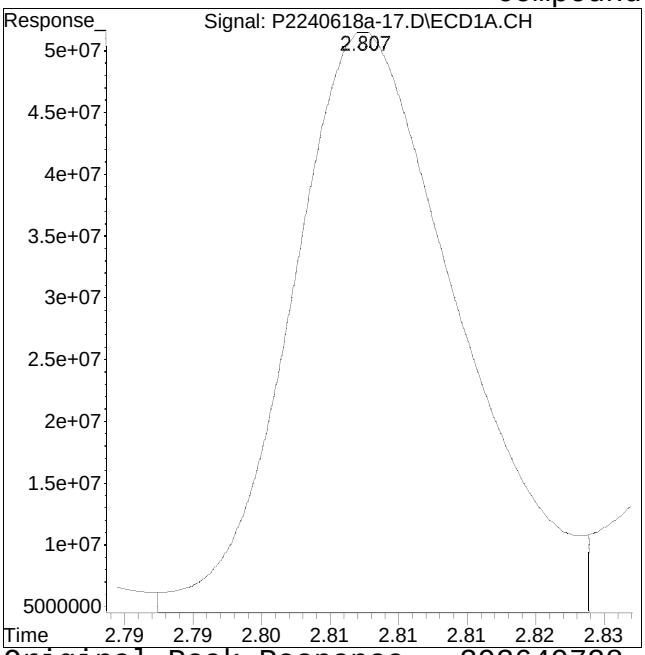


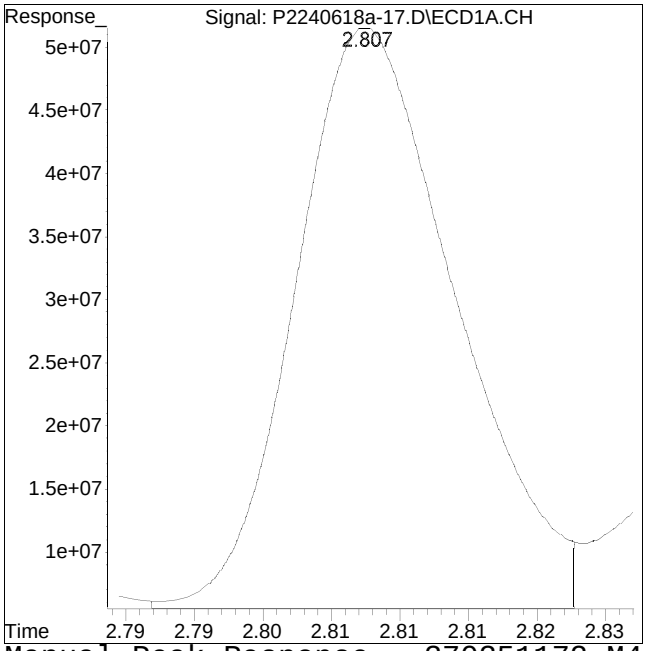
Original Peak Response = 148109493 Manual Peak Response = 139267792 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #10: 1260-2



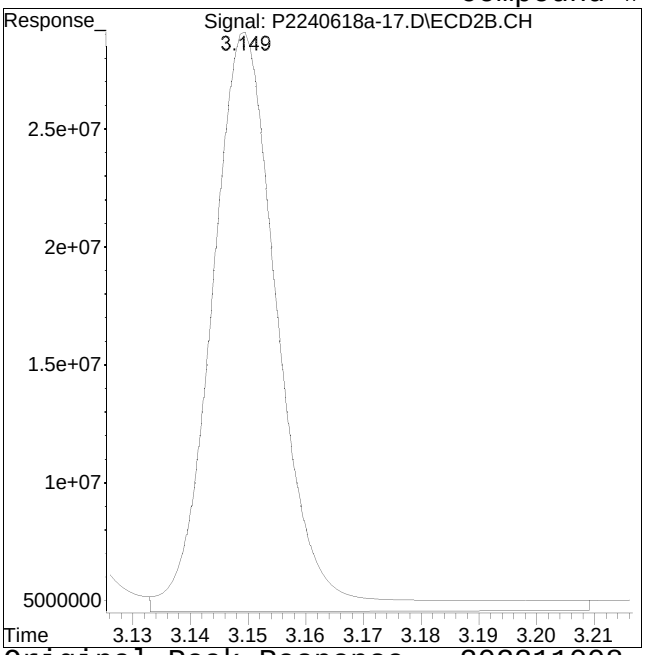


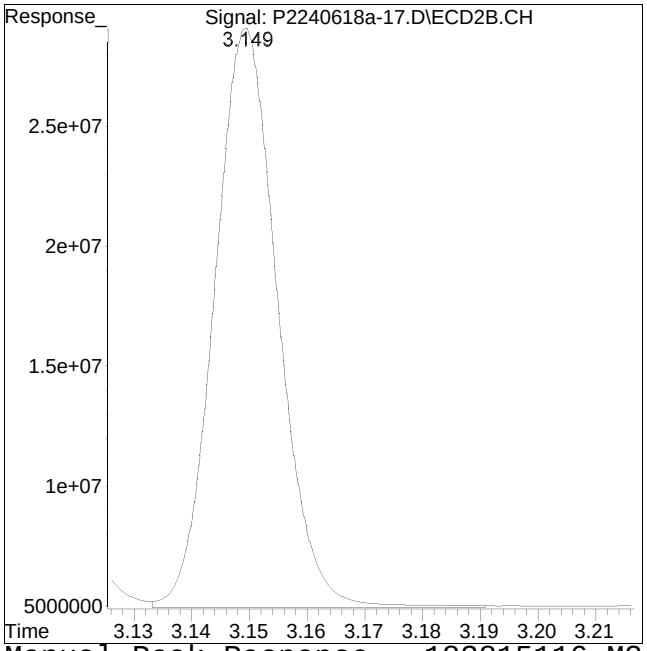
Original Peak Response = 393649728 Manual Peak Response = 370351172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #61: 1260-2 #2



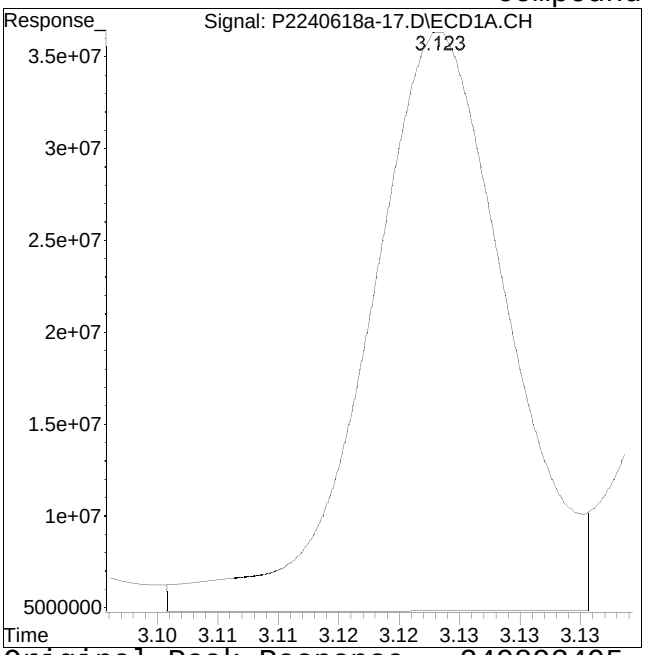


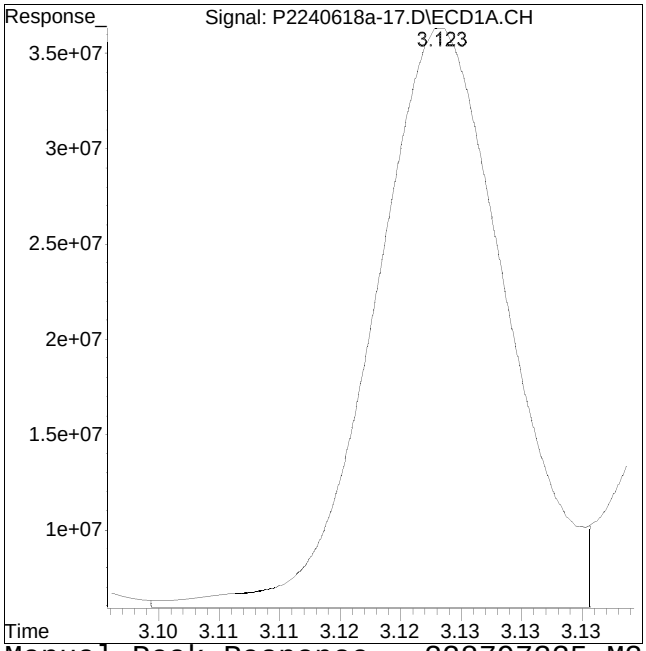
Original Peak Response = 202311008 Manual Peak Response = 183815116 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #11: 1260-3



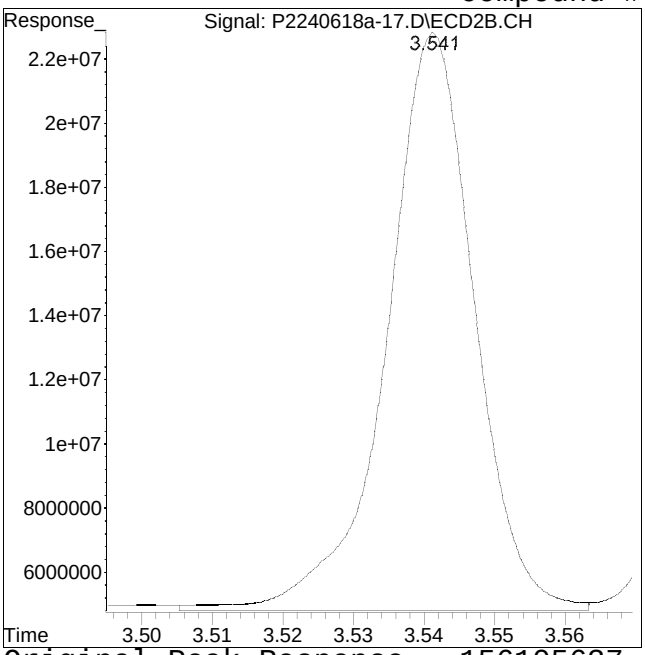


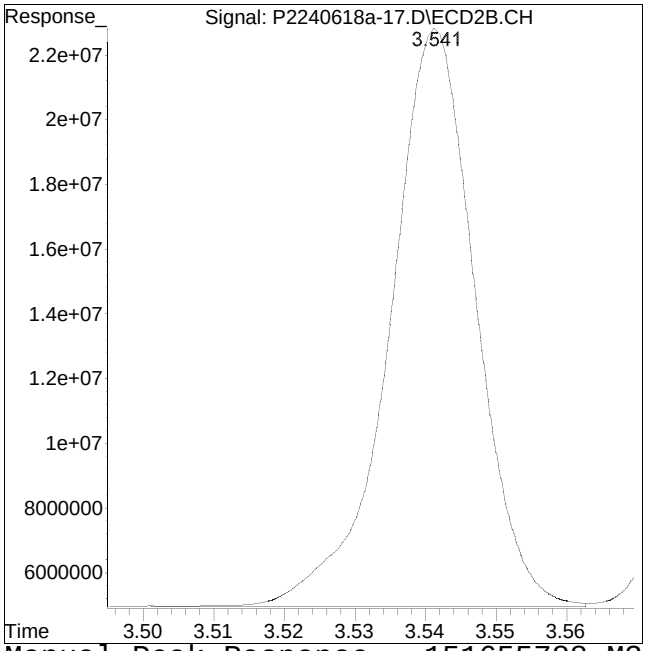
Original Peak Response = 249892495 Manual Peak Response = 228797335 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #62: 1260-3 #2



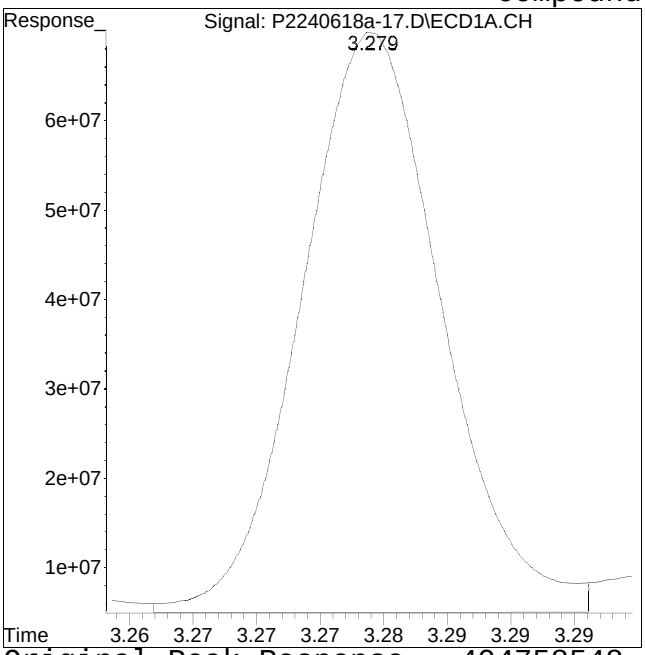


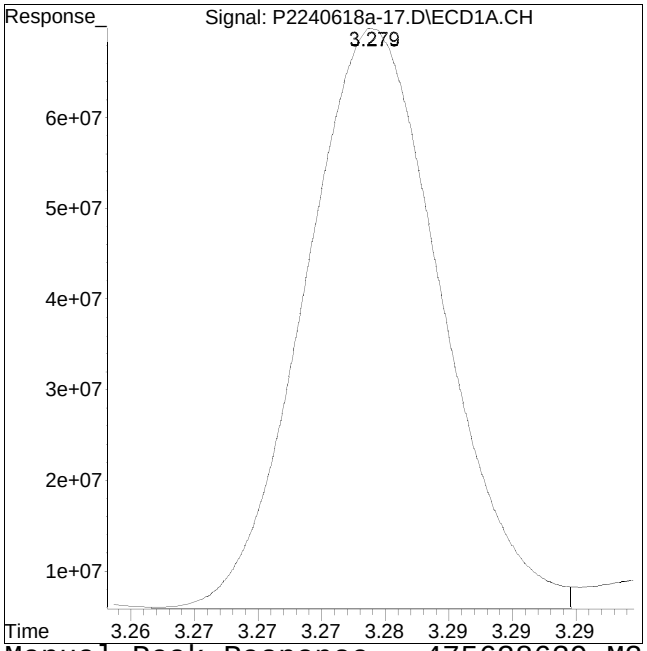
Original Peak Response = 156105637 Manual Peak Response = 151655788 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #12: 1260-4



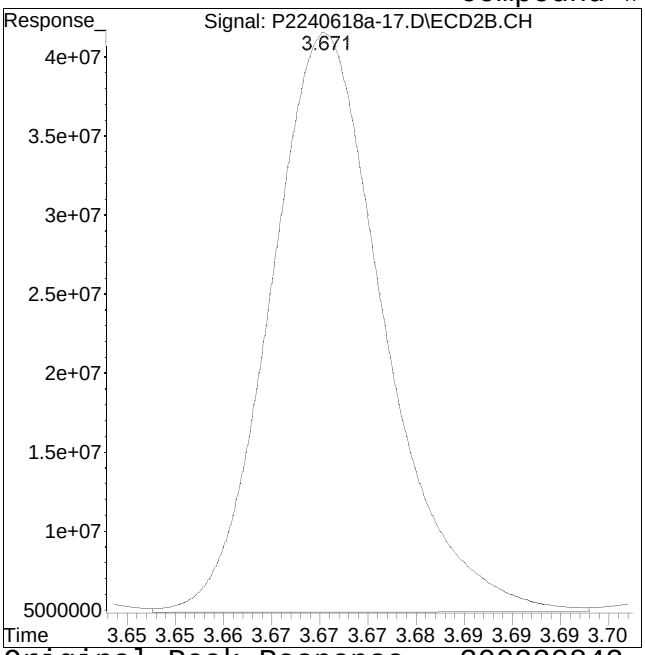


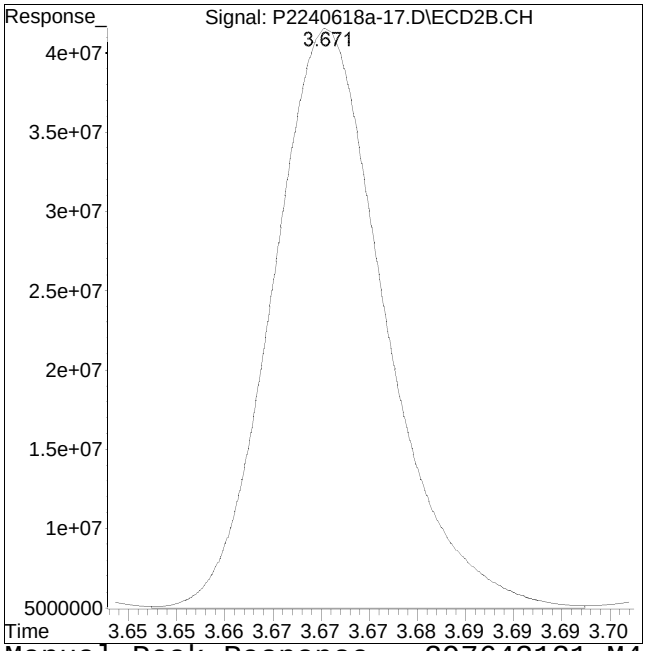
Original Peak Response = 494758548 Manual Peak Response = 475638639 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #63: 1260-4 #2



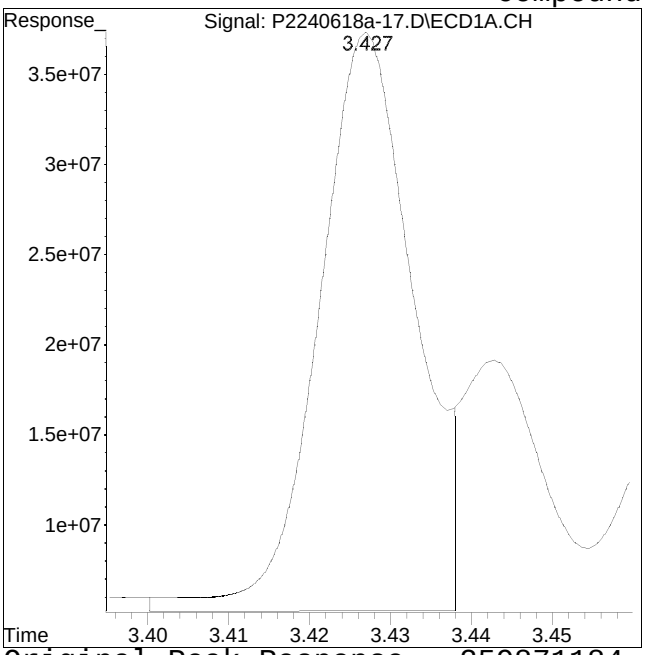


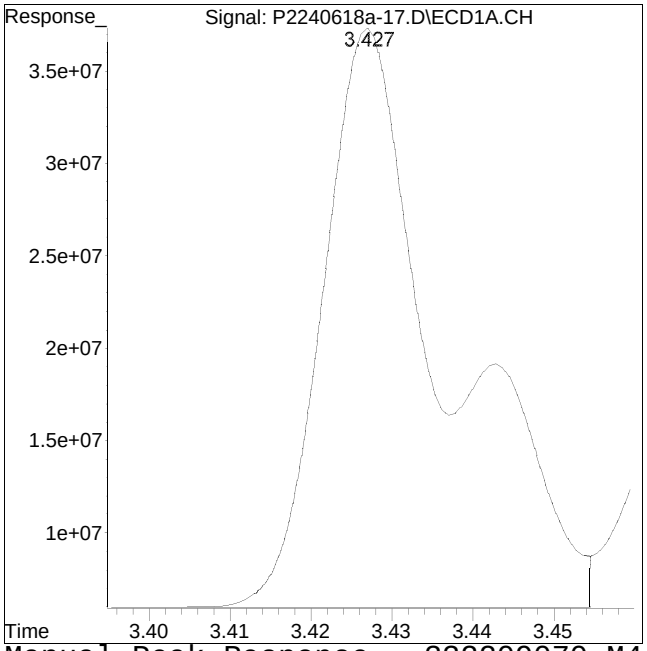
Original Peak Response = 300220842 Manual Peak Response = 297643121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618a\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-17.D Operator : pest2:mhg
Date Inj'd : 6/18/2024 23:56 Instrument : Pest 2
Sample : WG1935684-5,42,,+1660 pp11Quant Date : 6/19/2024 0:10 am

Compound #13: 1260-5





Original Peak Response = 259871184 Manual Peak Response = 332209070 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:11
Operator : pest2:mhg
Sample : WG1935917-1,42,,
Misc : WG1935684,WG1935917,ical21102 (Sig #1); WG1935684,WG1935508,ical21102 (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:05 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.159	1.227	320.1E6	219.4E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	93.61%	
Standard Area 1 : #2 = 250283431				Recovery =	87.67%	
14) i 2154_1br2nb	1.159	1.227	320.1E6	219.4E6	25.000	25.000
23) i 4268_1br2nb	1.159	1.227	320.1E6	219.4E6	25.000	25.000
34) i 1248_1br2nb	1.159	1.227	320.1E6	219.4E6	25.000	25.000
40) i 3262_1br2nb	1.159	1.227	320.1E6	219.4E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.443	1.600	296.5E6	179.8E6	17.661	16.631
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.31%	83.16%	
3) s Decachlorobi	4.012	4.522	250.0E6	137.8E6	23.051	27.072
Spiked Amount 20.000	Range 30 - 150		Recovery =	115.26%	135.36%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:11
Operator : pest2:mhg
Sample : WG1935917-1,42,,
Misc : WG1935684,WG1935917,ical21102 (Sig #1); WG1935684,WG1935508,ical21102 (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:05 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:11
Operator : pest2:mhg
Sample : WG1935917-1,42,,
Misc : WG1935684,WG1935917,ical21102 (Sig #1); WG1935684,WG1935508,ical21102 (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:05 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

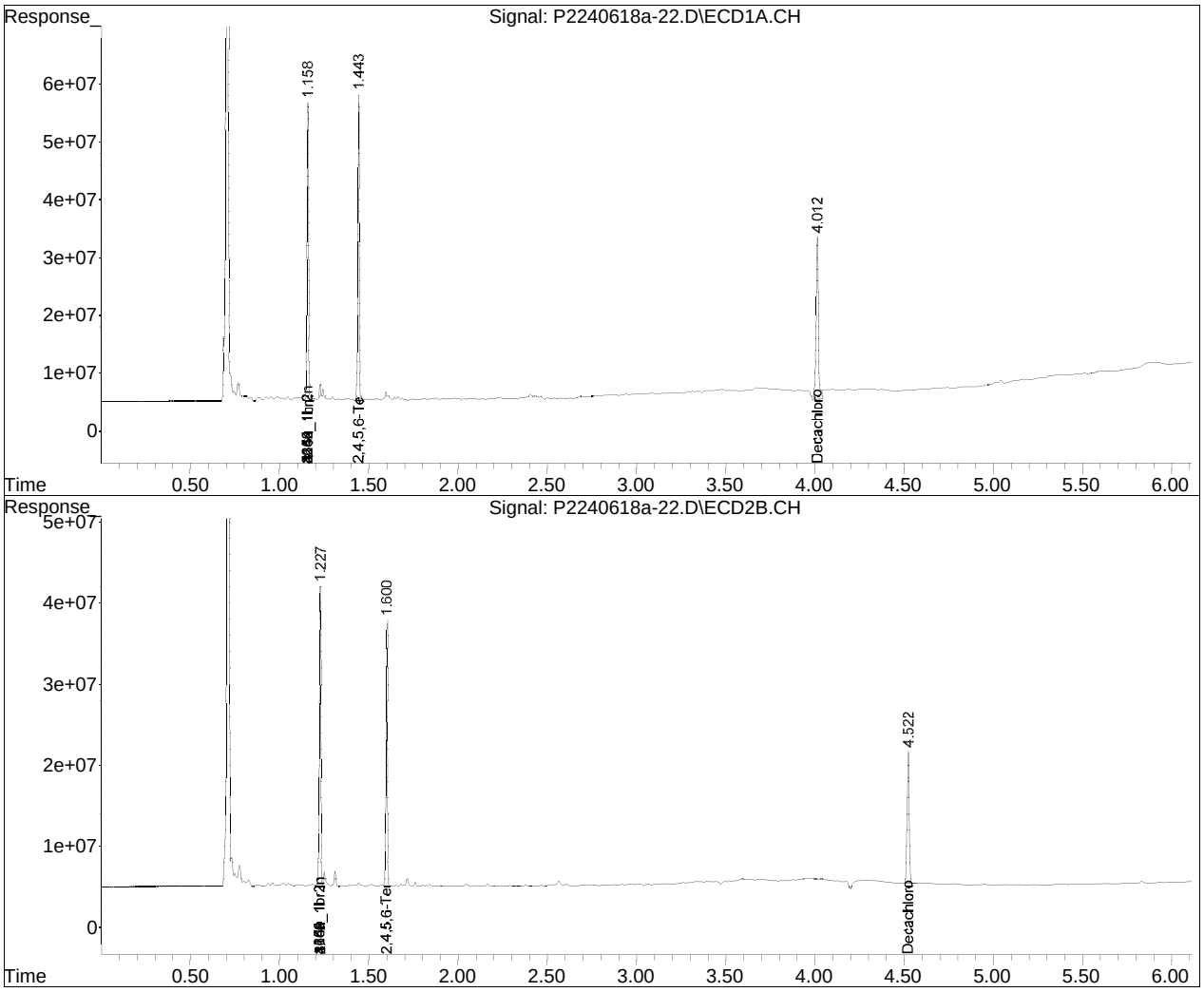
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:11
Operator : pest2:mhg
Sample : WG1935917-1,42,,
Misc : WG1935684,WG1935917,ical21102 (Sig #1); WG1935684,WG1935508,ical21
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:05 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240618A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240618a-22.D	Operator	: pest2:mhg
Date Inj'd	: 6/19/2024 1:11	Instrument	: Pest 2
Sample	: WG1935917-1,42,,	Quant Date	: 6/19/2024 6:05 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:19
Operator : pest2:mhg
Sample : WG1935917-2,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.159	1.228	356.8E6	238.4E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	104.33%	
Standard Area 1 : #2 = 250283431				Recovery =	95.26%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.443	1.601	331.3E6	199.8E6	17.707	17.008
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.54%	85.04%	
3) s Decachlorobi	4.010	4.522	213.7E6	147.1E6	17.677	26.596
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.39%	132.98%	
Target Compounds						
4) l1 1016-1	1.581	1.801	72574928	49974207	226.596M4	249.067
5) l1 1016-2	1.722	1.972	161.0E6	111.2E6	229.380M4	252.331
6) l1 1016-3	1.910	2.172	339.0E6	217.7E6	234.884M4	246.987
7) l1 1016-4	1.965	2.232	136.9E6	85996112	237.917M4	263.755M3
8) l1 1016-5	2.135	2.442	147.3E6	73404802	230.741M4	265.617
Sum 1016-1			856.8E6	538.3E6	1159.519	1277.758
Average 1016-1					231.904	255.552
9) l2 1260-1	2.678	3.050	206.7E6	142.5E6	224.363	276.866
10) l2 1260-2	2.808	3.152	318.9E6	158.0E6	229.627	268.328
11) l2 1260-3	3.123	3.544	193.0E6	133.5E6	223.727	292.314
12) l2 1260-4	3.279	3.673	423.2E6	261.7E6	228.906	285.091
13) l2 1260-5	3.426	3.874	306.1E6	191.4E6	236.215M1	304.083
Sum 1260-1			1447.8E6	887.0E6	1142.838	1426.682
Average 1260-1					228.568	285.336
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:19
Operator : pest2:mhg
Sample : WG1935917-2,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

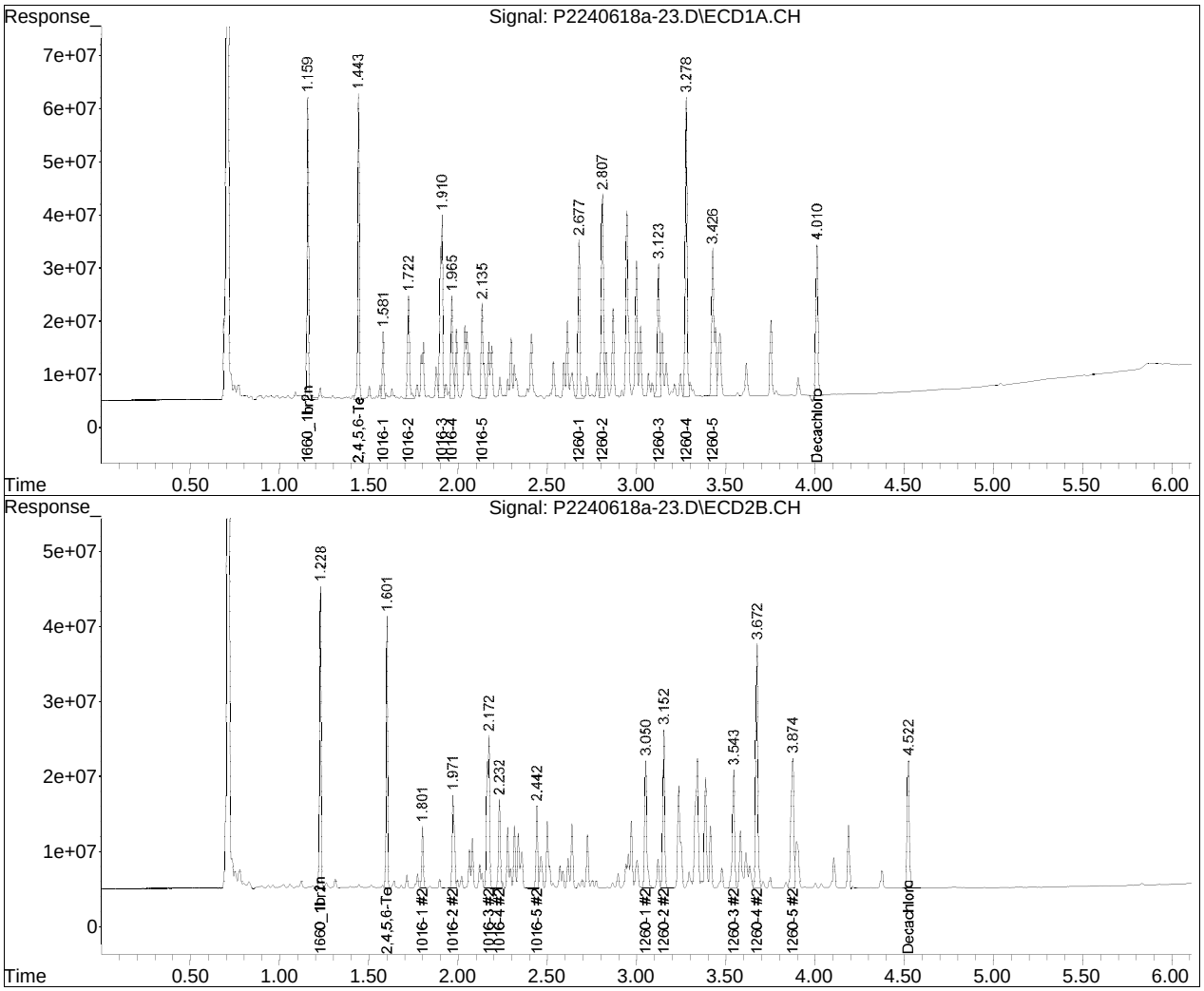
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : 1660 - 1660Pest2\2024\240618A\P2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:19
Operator : pest2:mhg
Sample : WG1935917-2,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:08 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

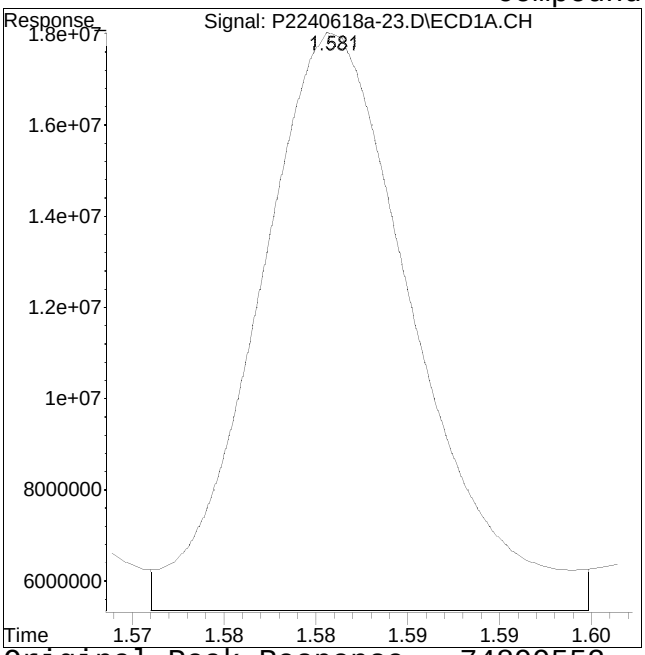
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

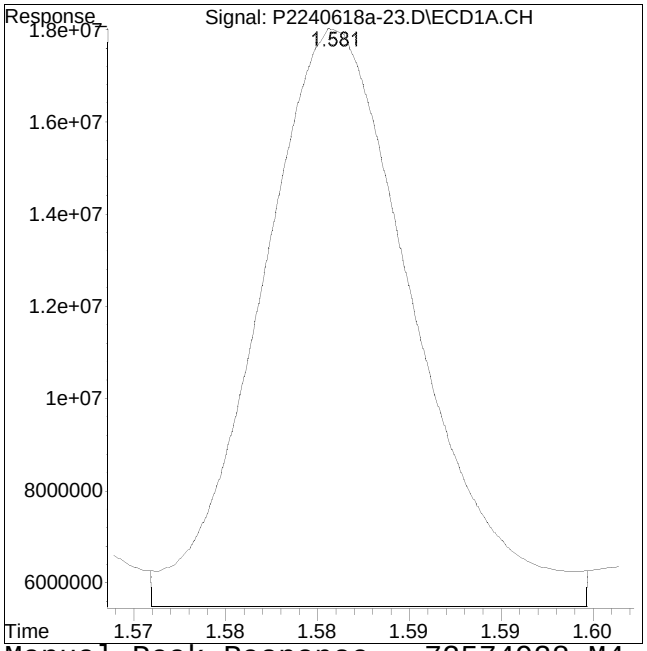


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #4: 1016-1



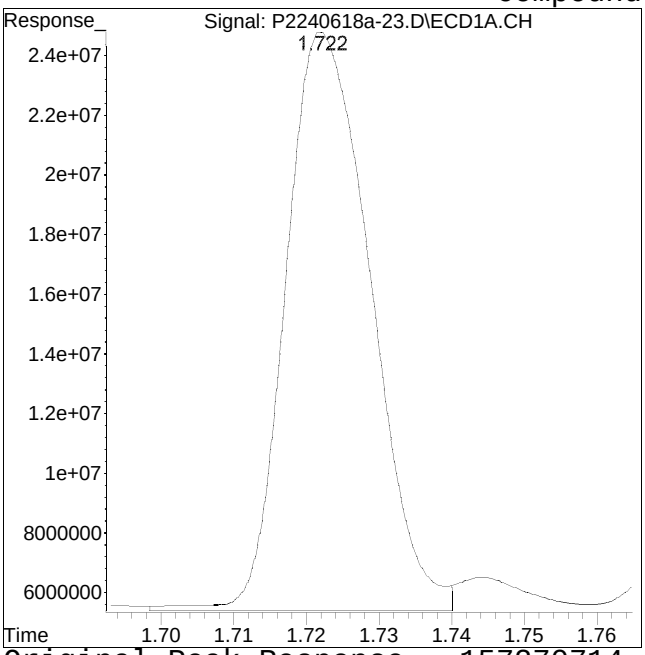


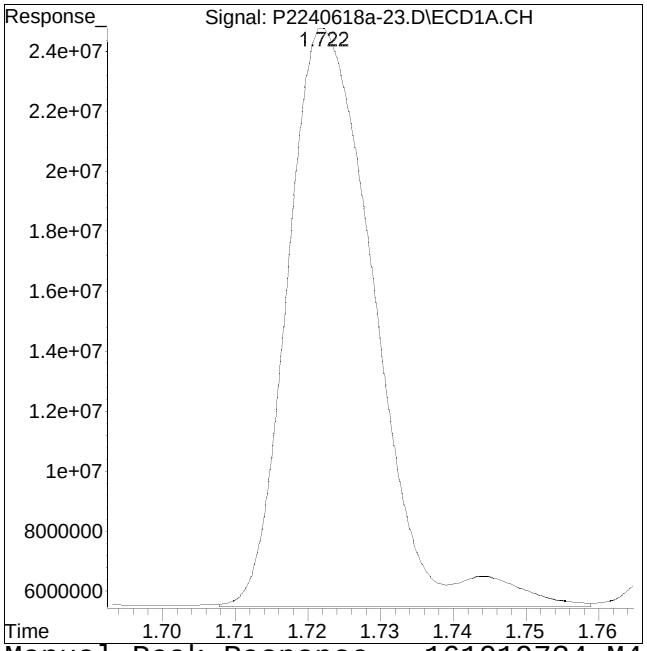
Original Peak Response = 74899552 Manual Peak Response = 72574928 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #5: 1016-2



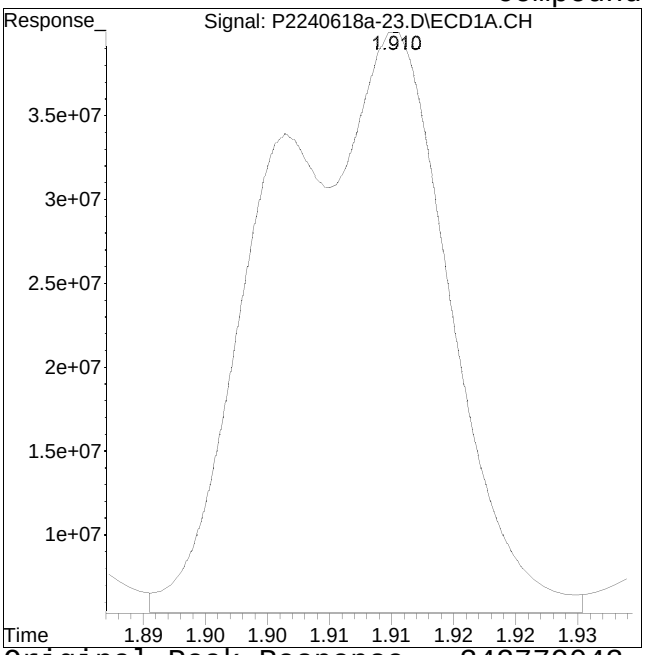


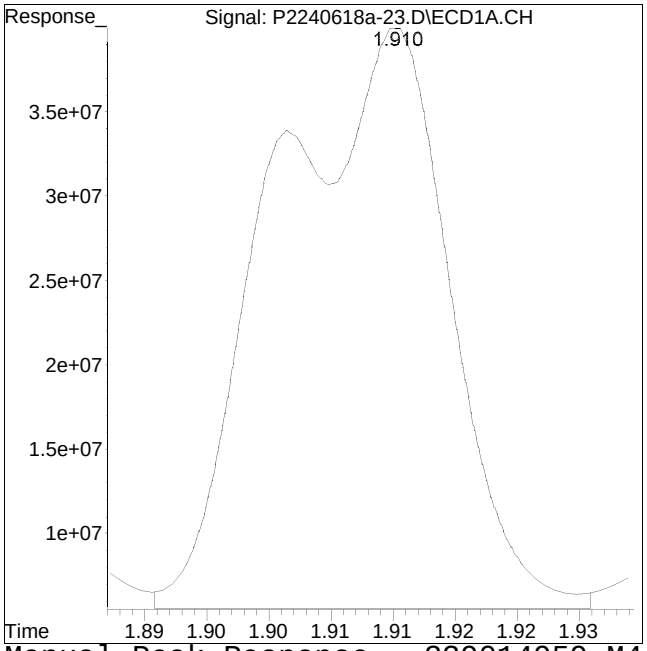
Original Peak Response = 157270714 Manual Peak Response = 161019734 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #6: 1016-3



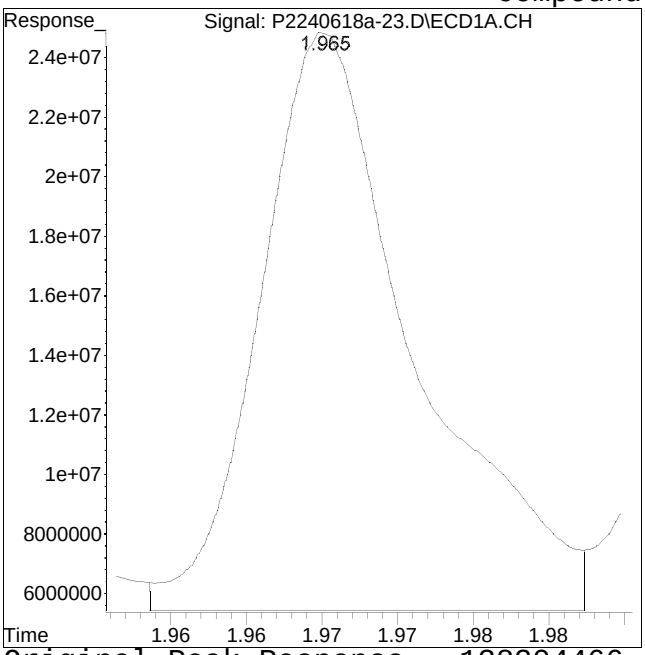


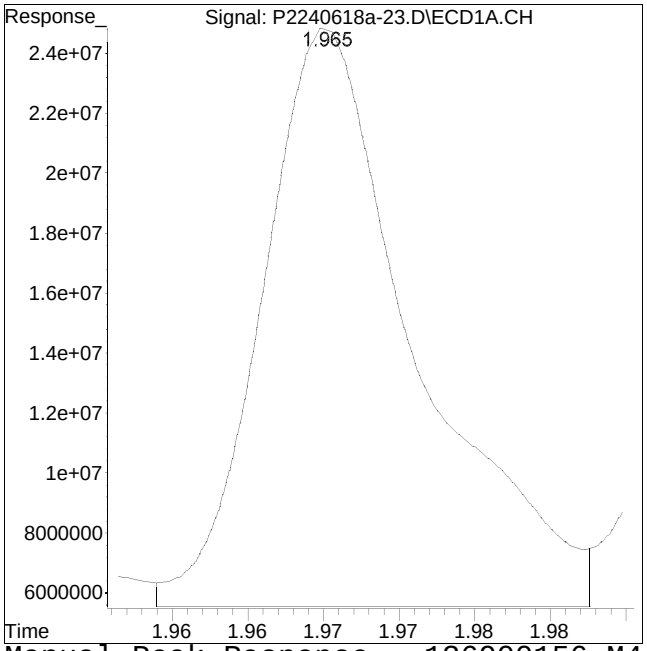
Original Peak Response = 342779043 Manual Peak Response = 339014959 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #7: 1016-4



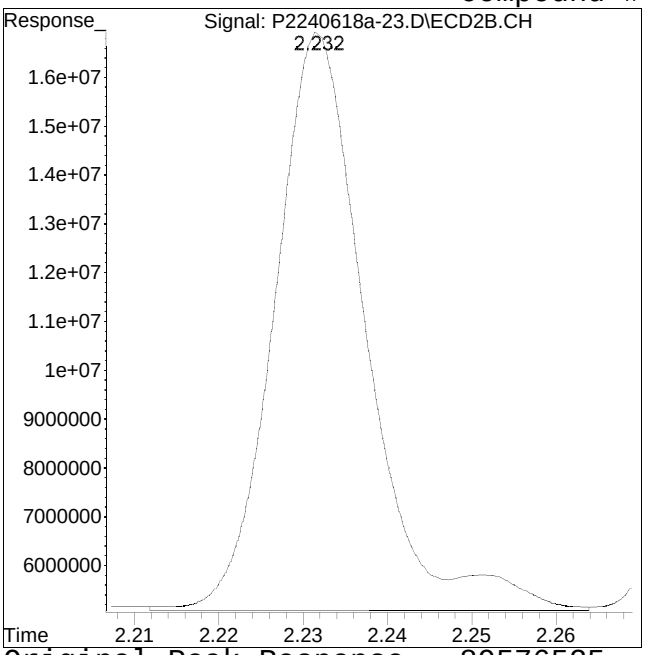


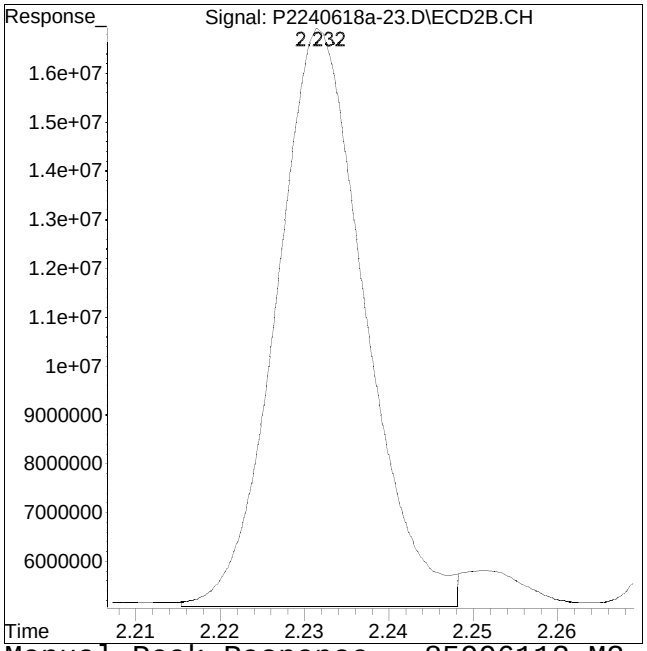
Original Peak Response = 138304466 Manual Peak Response = 136900156 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #58: 1016-4 #2



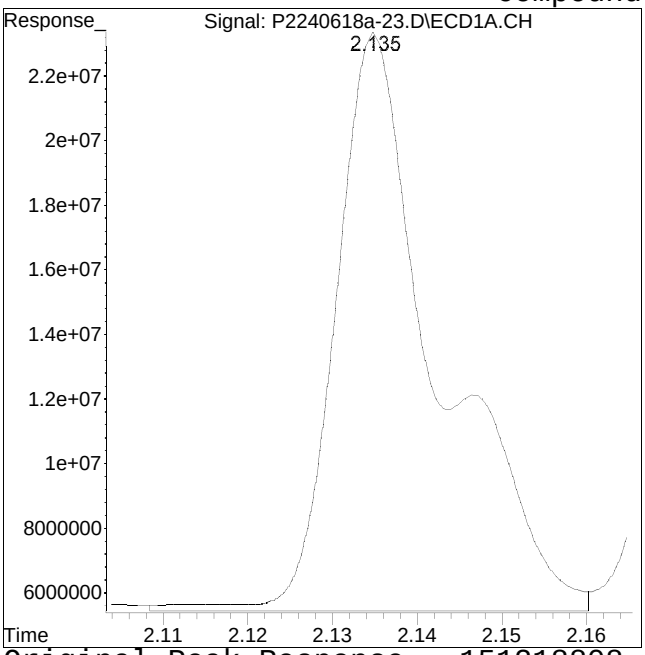


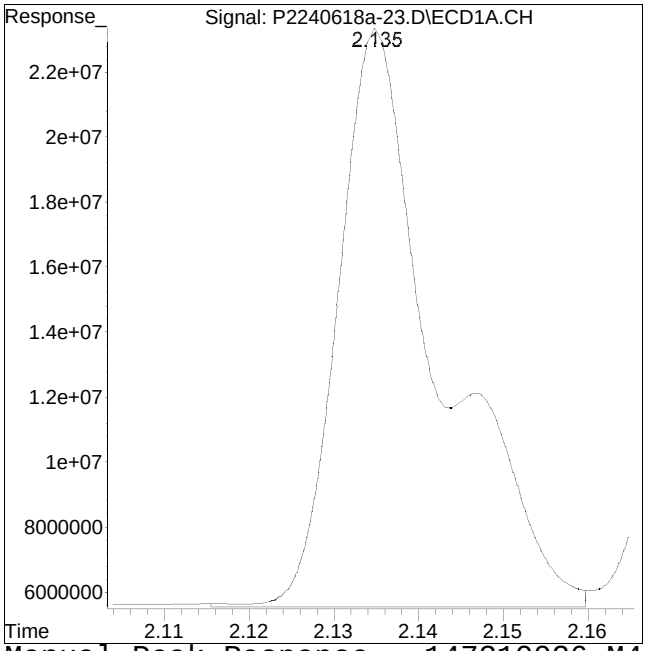
Original Peak Response = 89576525 Manual Peak Response = 85996112 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #8: 1016-5



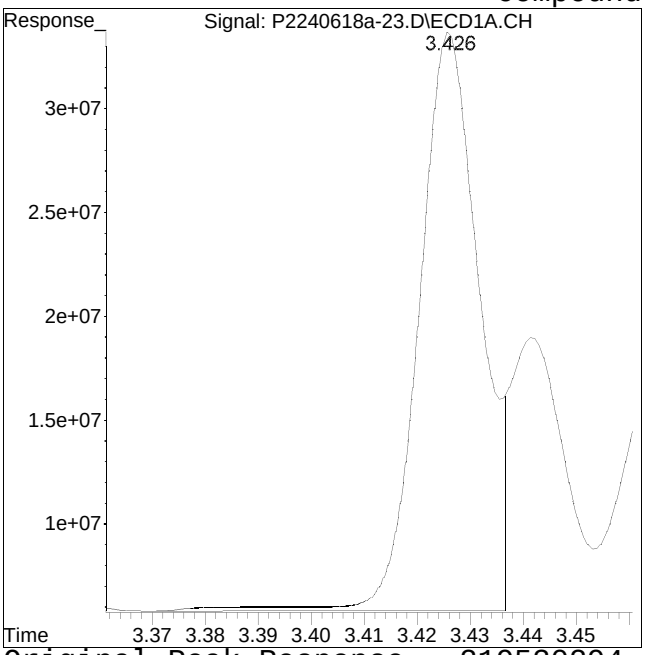


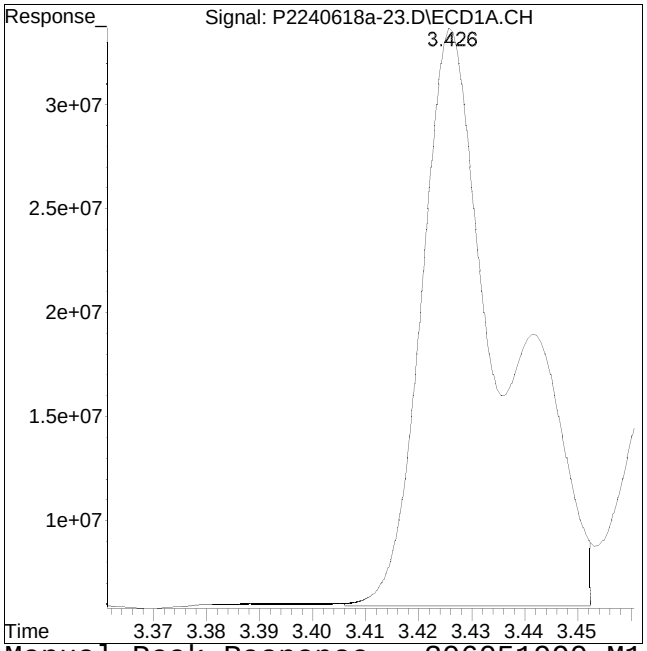
Original Peak Response = 151218808 Manual Peak Response = 147310026 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-23.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:19 Instrument : Pest 2
Sample : WG1935917-2,42,, Quant Date : 6/19/2024 6:05 am

Compound #13: 1260-5





Original Peak Response = 219530294 Manual Peak Response = 306051990 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:28
Operator : pest2:mhg
Sample : WG1935917-3,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:12 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.228	374.4E6	230.3E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	109.48%	
Standard Area 1 : #2 = 250283431				Recovery =	92.01%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.601	337.3E6	194.6E6	17.184	17.148
Spiked Amount 20.000	Range 30 - 150		Recovery =	85.92%	85.74%	
3) s Decachlorobi	4.012	4.524	257.7E6	153.1E6	20.312	28.650
Spiked Amount 20.000	Range 30 - 150		Recovery =	101.56%	143.25%	
Target Compounds						
4) l1 1016-1	1.582	1.802	70746057	48090341	210.495M3	248.128
5) l1 1016-2	1.723	1.973	167.7E6	108.5E6	227.673M1	254.796
6) l1 1016-3	1.912	2.173	333.5E6	214.5E6	220.223M4	251.860
7) l1 1016-4	1.967	2.233	128.9E6	82591515	213.490M3	262.244
8) l1 1016-5	2.137	2.443	143.5E6	72272220	214.240M4	270.739
Sum 1016-1			844.4E6	525.9E6	1086.122	1287.766
Average 1016-1					217.224	257.553
9) l2 1260-1	2.679	3.052	201.8E6	148.1E6	208.768M4	297.888
10) l2 1260-2	2.809	3.153	314.3E6	161.6E6	215.688M4	284.050
11) l2 1260-3	3.125	3.545	194.1E6	138.8E6	214.439M4	314.576
12) l2 1260-4	3.280	3.675	423.4E6	273.9E6	218.275M3	308.952
13) l2 1260-5	3.428	3.876	302.4E6	194.4E6	222.451M1	319.817
Sum 1260-1			1436.2E6	916.8E6	1079.621	1525.283
Average 1260-1					215.924	305.057
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:28
Operator : pest2:mhg
Sample : WG1935917-3,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:12 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

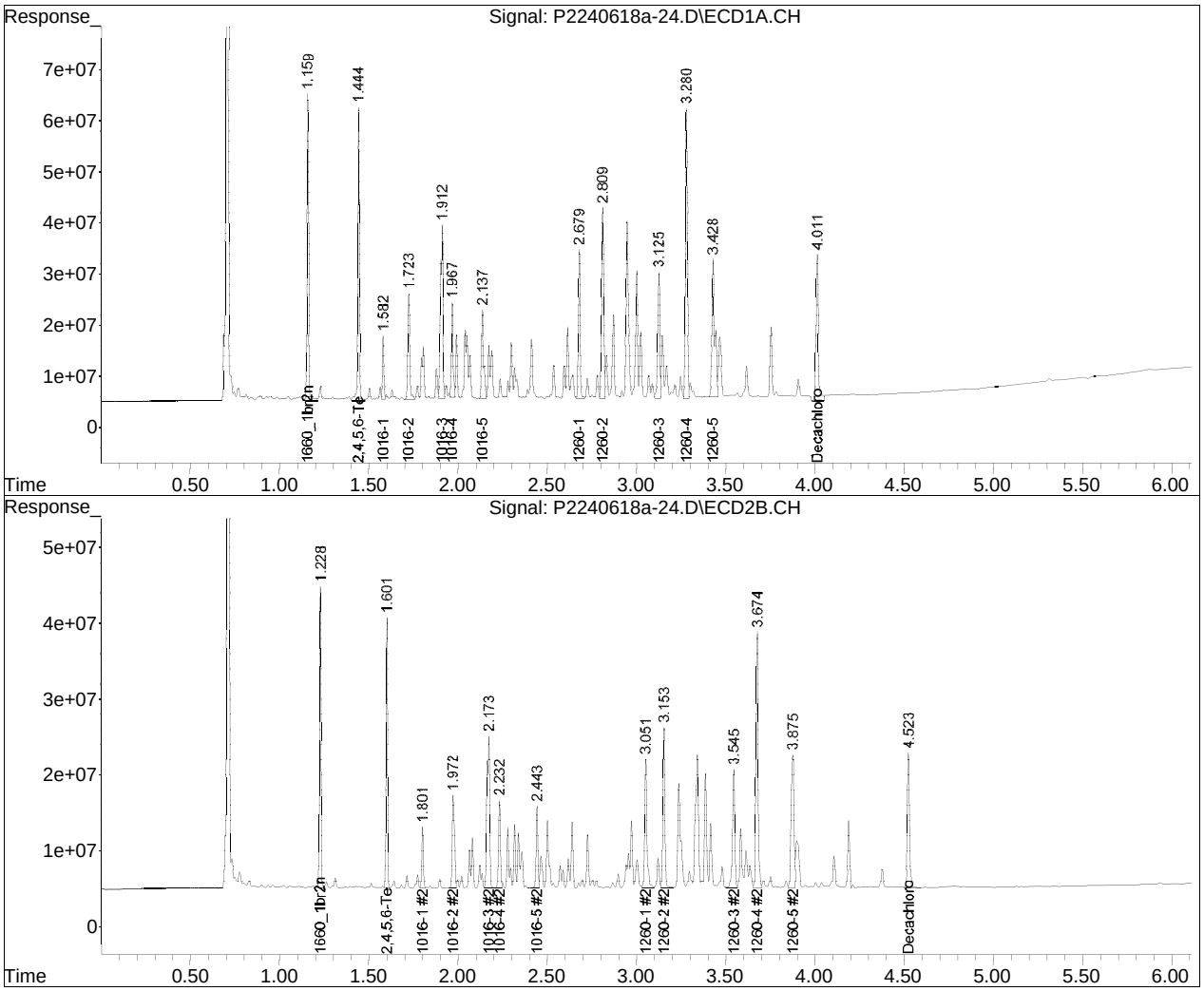
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240618A\P2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:28
Operator : pest2:mhg
Sample : WG1935917-3,42,,
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:12 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

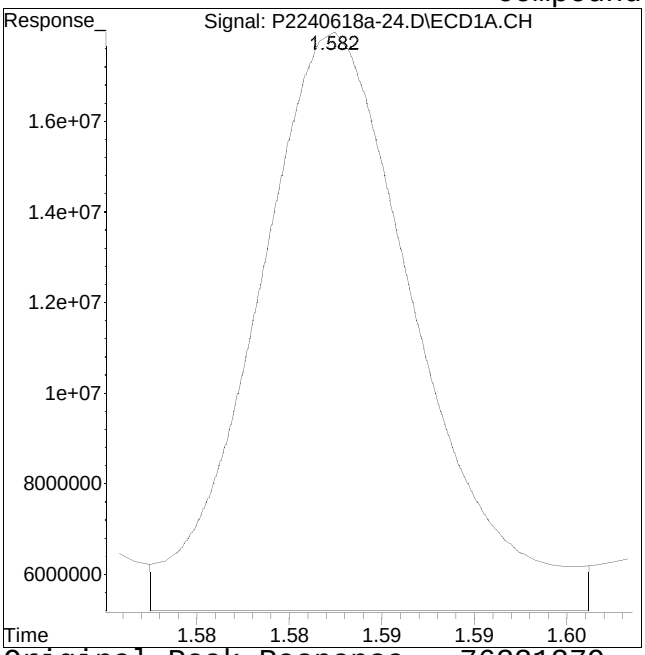
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

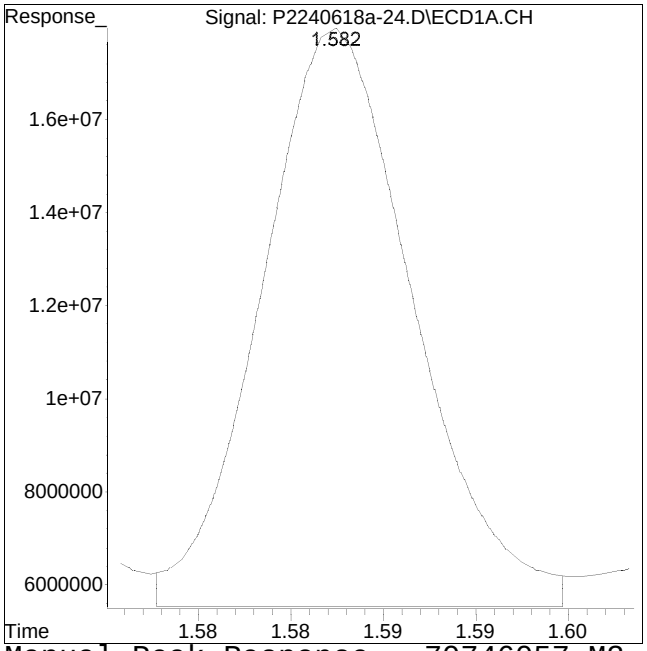


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #4: 1016-1



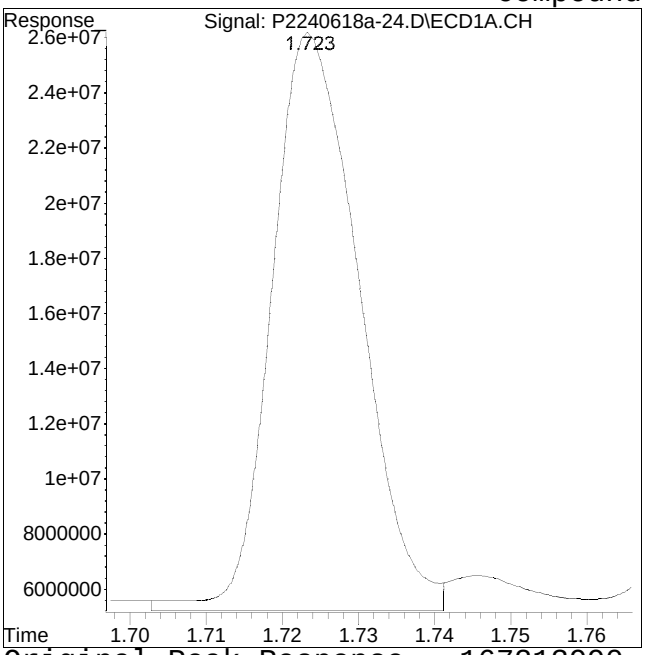


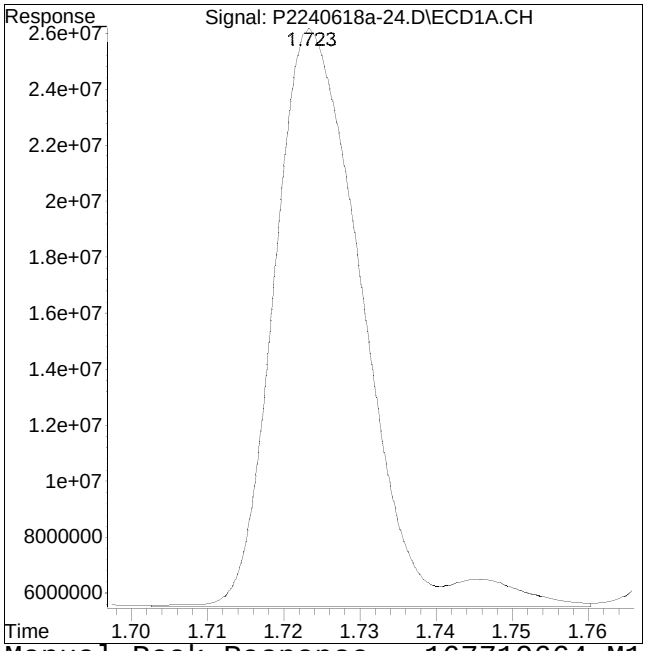
Original Peak Response = 76331279 Manual Peak Response = 70746057 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #5: 1016-2



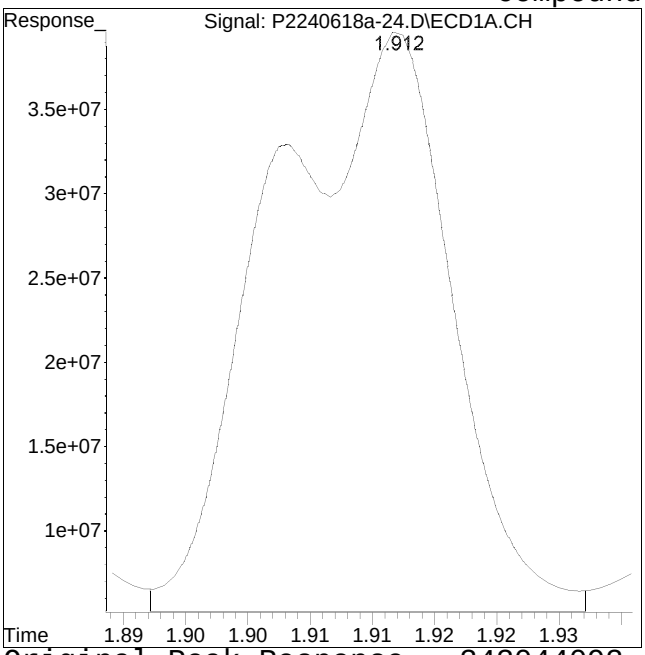


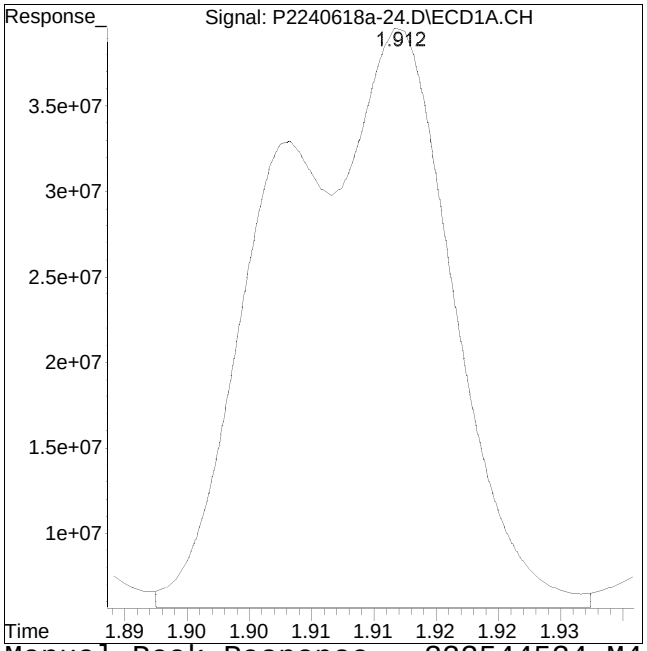
Original Peak Response = 167213990 Manual Peak Response = 167710664 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #6: 1016-3



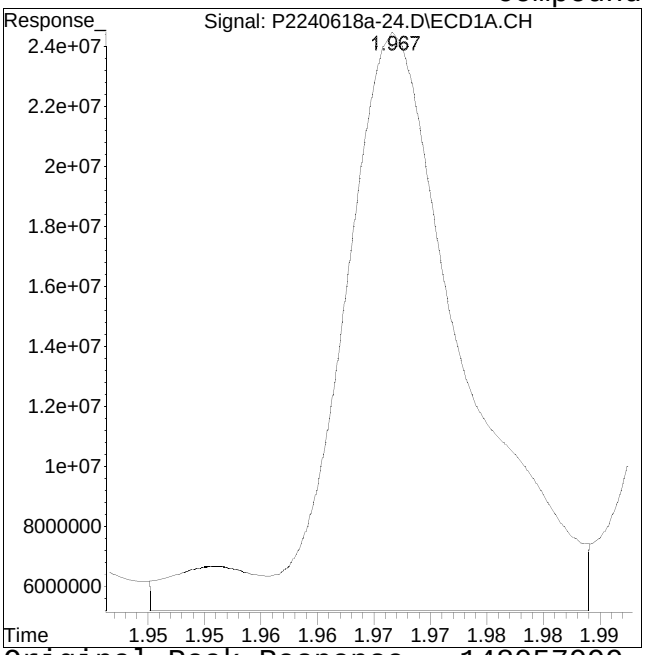


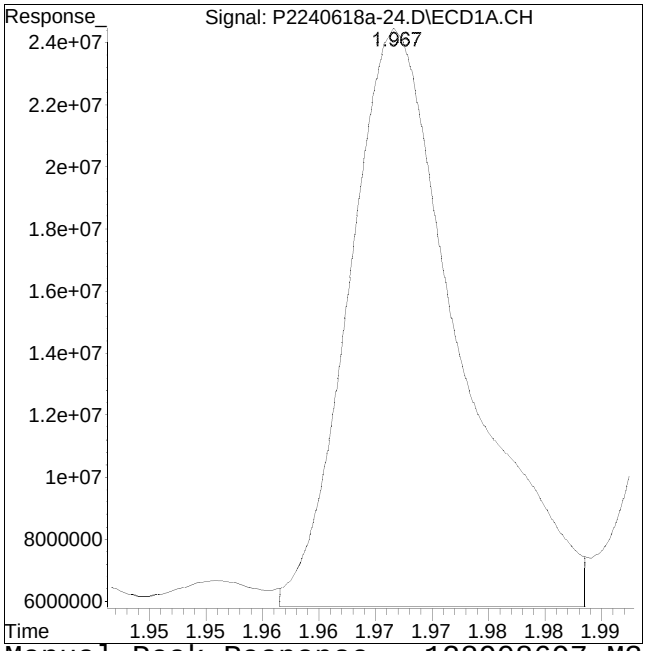
Original Peak Response = 343044093 Manual Peak Response = 333544534 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #7: 1016-4



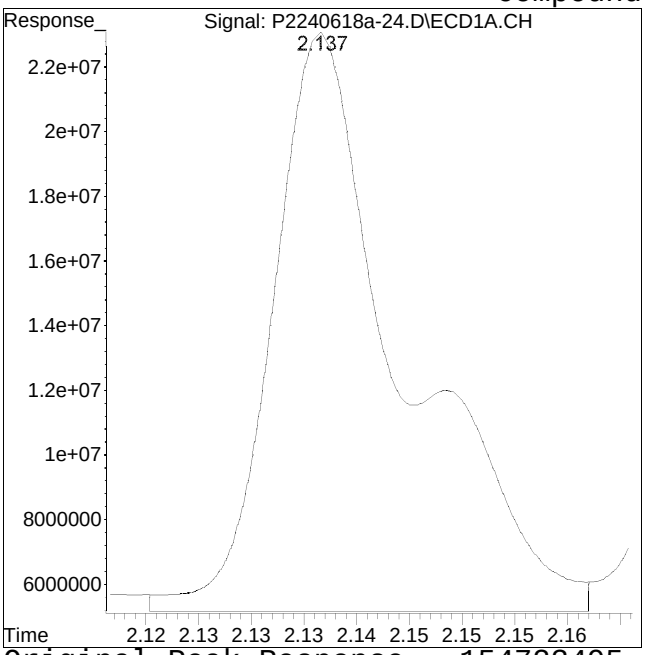


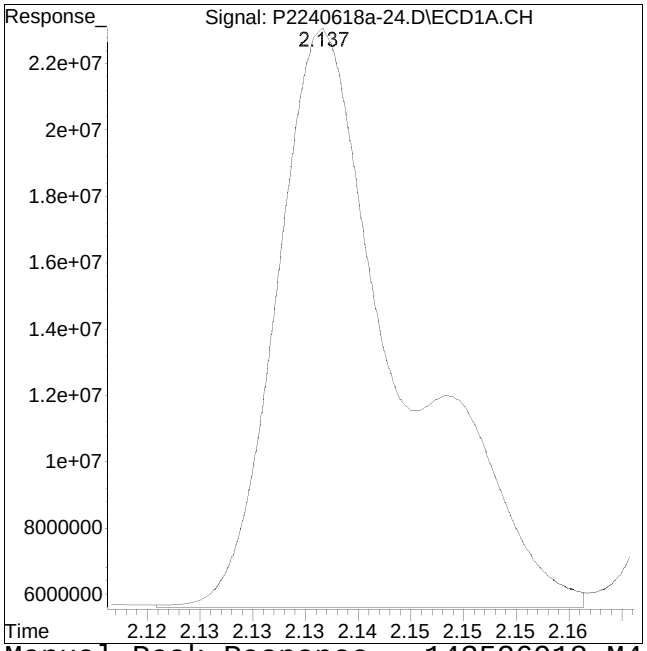
Original Peak Response = 148057999 Manual Peak Response = 128908697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #8: 1016-5



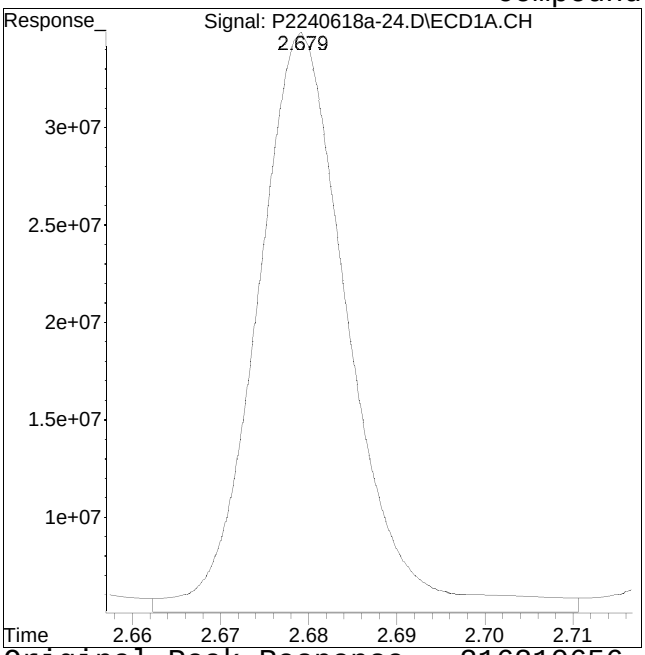


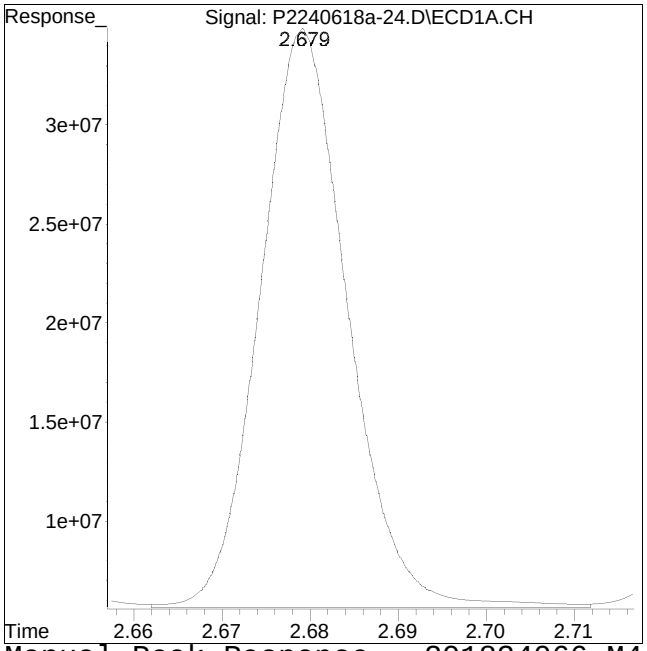
Original Peak Response = 154723495 Manual Peak Response = 143526918 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #9: 1260-1



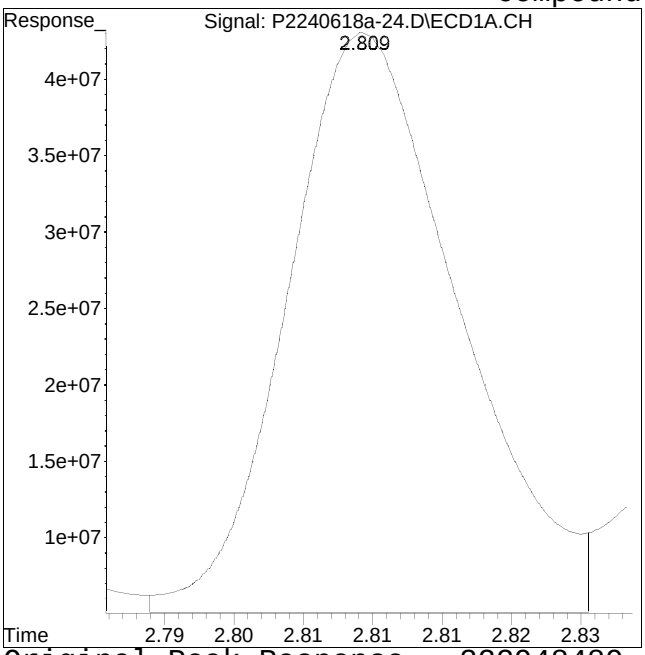


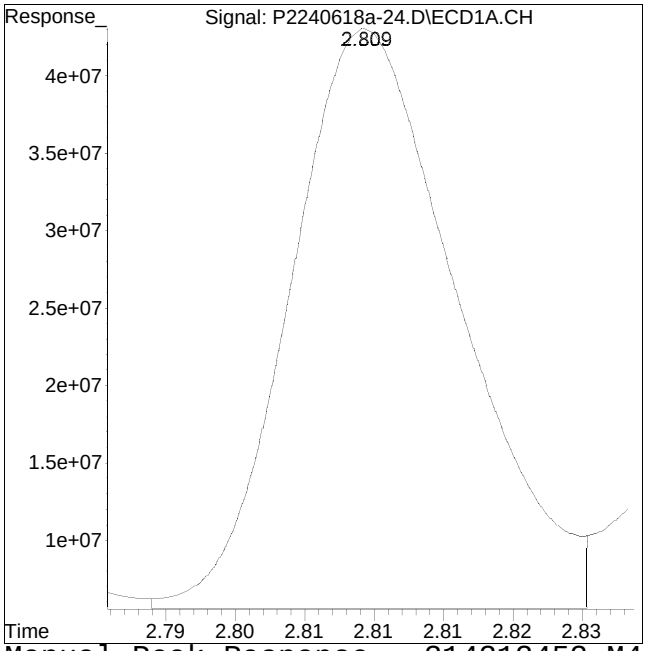
Original Peak Response = 216210656 Manual Peak Response = 201834066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #10: 1260-2



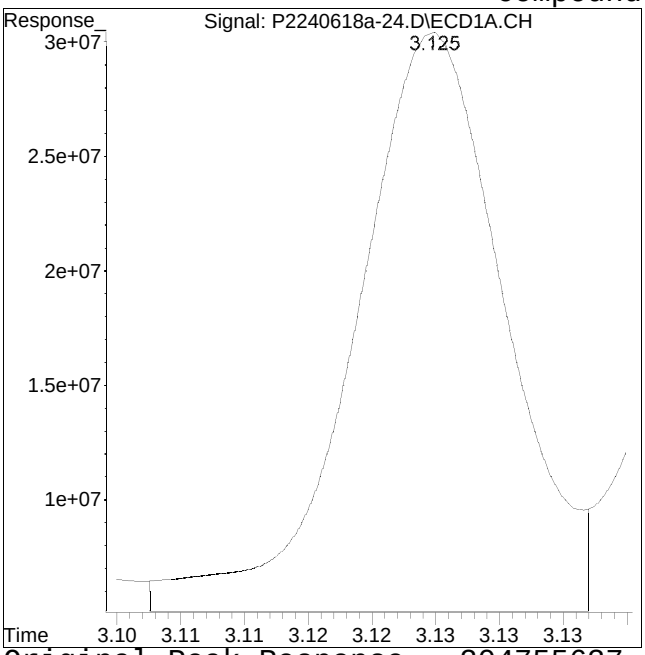


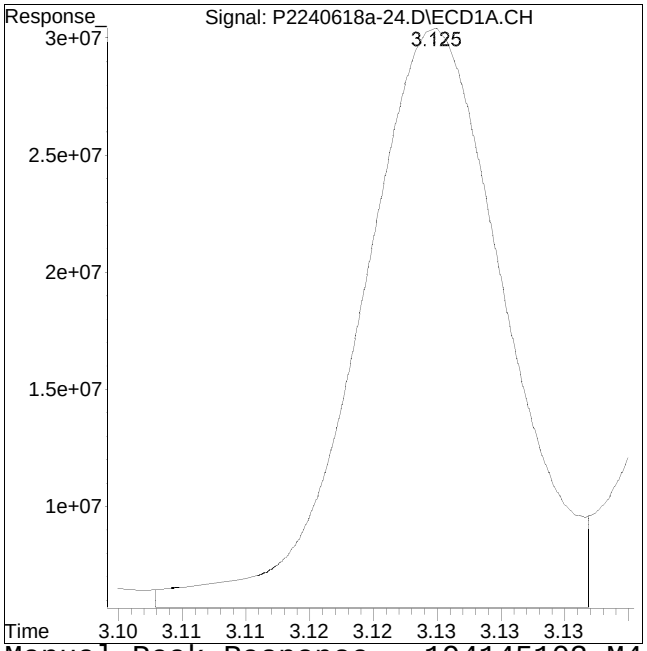
Original Peak Response = 322948489 Manual Peak Response = 314313453 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #11: 1260-3



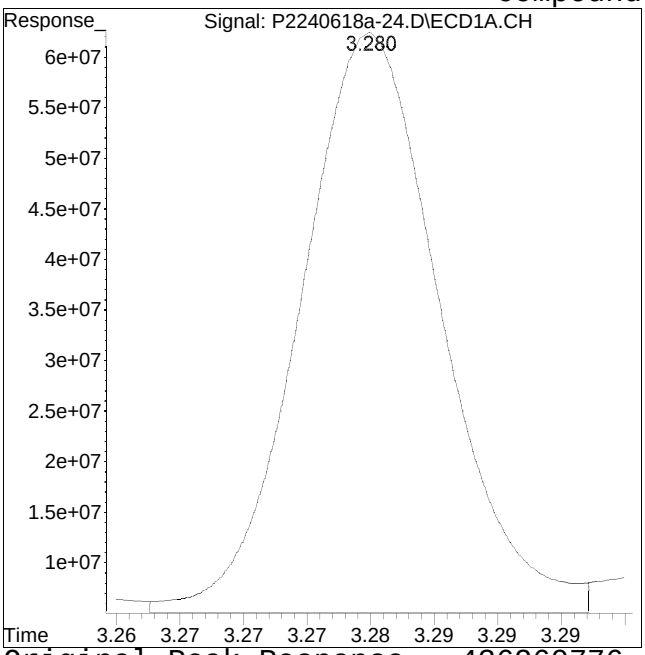


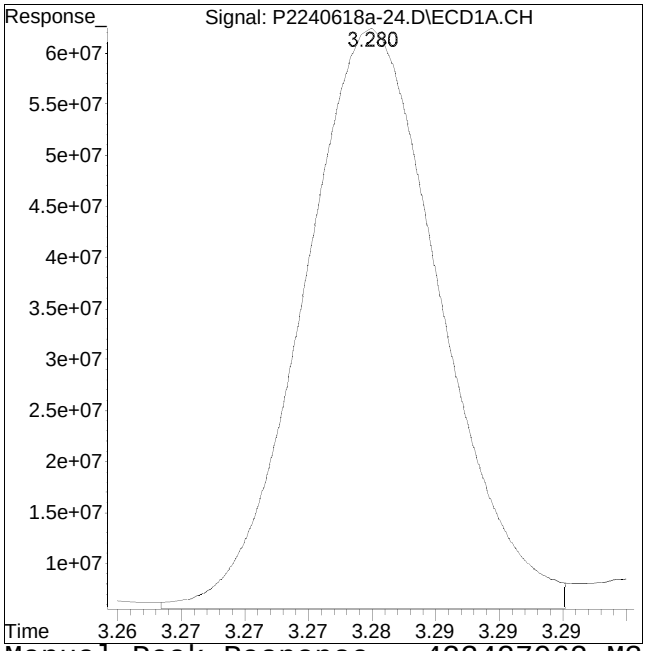
Original Peak Response = 204755637 Manual Peak Response = 194145103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #12: 1260-4



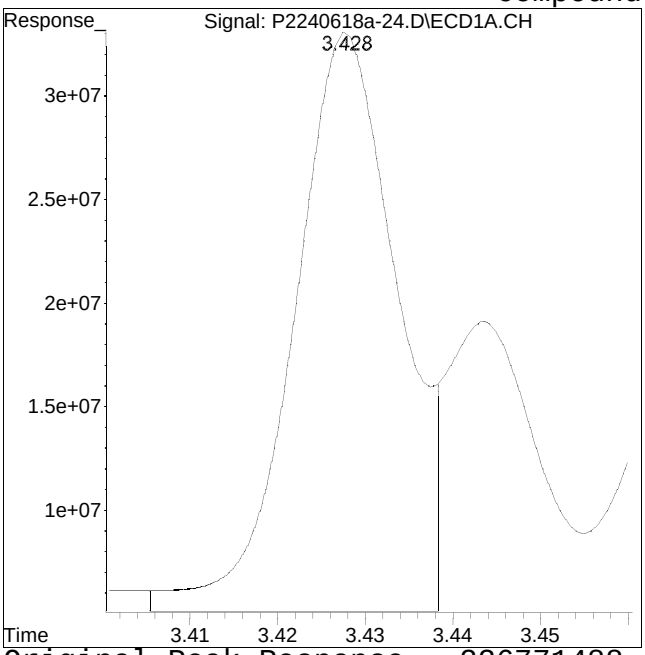


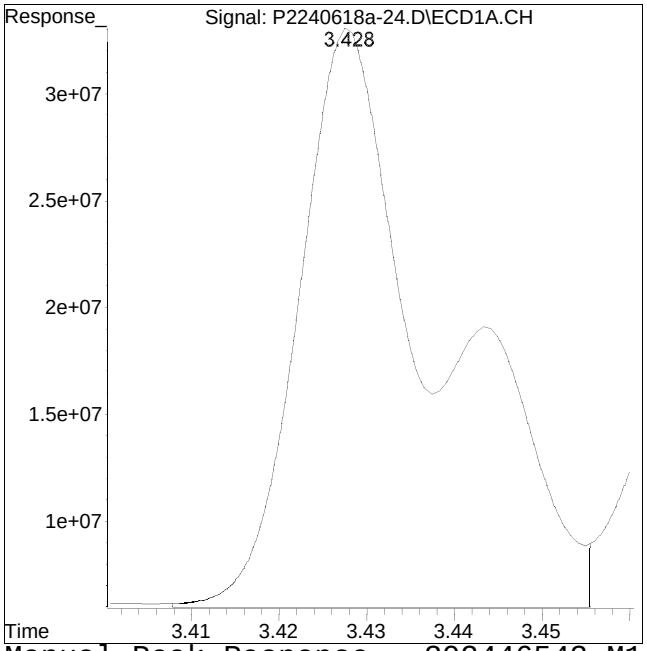
Original Peak Response = 436260776 Manual Peak Response = 423427062 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-24.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:28 Instrument : Pest 2
Sample : WG1935917-3,42,, Quant Date : 6/19/2024 6:05 am

Compound #13: 1260-5





Original Peak Response = 226771488 Manual Peak Response = 302446543 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:46
Operator : pest2:mhg
Sample : WG1935917-4,42,,ms
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:20 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.229	358.0E6	240.1E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	104.67%	
Standard Area 1 : #2 = 250283431				Recovery =	95.93%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.602	333.2E6	201.4E6	17.753	17.030
Spiked Amount	20.000	Range 30 - 150		Recovery =	88.77%	85.15%
3) s Decachlorobi	4.012	4.523	277.4E6	148.0E6	22.872	26.561M4
Spiked Amount	20.000	Range 30 - 150		Recovery =	114.36%	132.81%
Target Compounds						
4) l1 1016-1	1.582	1.802	71602453	49701458	222.841M4	245.954M4
5) l1 1016-2	1.724	1.973	157.1E6	112.7E6	223.055M1	253.818
6) l1 1016-3	1.912	2.173	338.0E6	217.1E6	233.461M4	244.537
7) l1 1016-4	1.967	2.233	135.7E6	82710841	235.091M4	251.883M3
8) l1 1016-5	2.137	2.444	145.2E6	73391528	226.705M4	263.689
Sum 1016-1			847.6E6	535.6E6	1141.154	1259.882
Average 1016-1					228.231	251.976
9) l2 1260-1	2.679	3.052	211.8E6	149.0E6	229.122M4	287.452
10) l2 1260-2	2.809	3.153	313.9E6	166.4E6	225.289M4	280.573
11) l2 1260-3	3.124	3.545	197.5E6	137.0E6	228.164M4	297.814M4
12) l2 1260-4	3.280	3.674	416.5E6	270.0E6	224.589M4	292.052M4
13) l2 1260-5	3.428	3.875	303.1E6	198.3E6	233.170M1	312.832M4
Sum 1260-1			1442.7E6	920.6E6	1140.334	1470.723
Average 1260-1					228.067	294.145
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:46
Operator : pest2:mhg
Sample : WG1935917-4,42,,ms
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:20 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

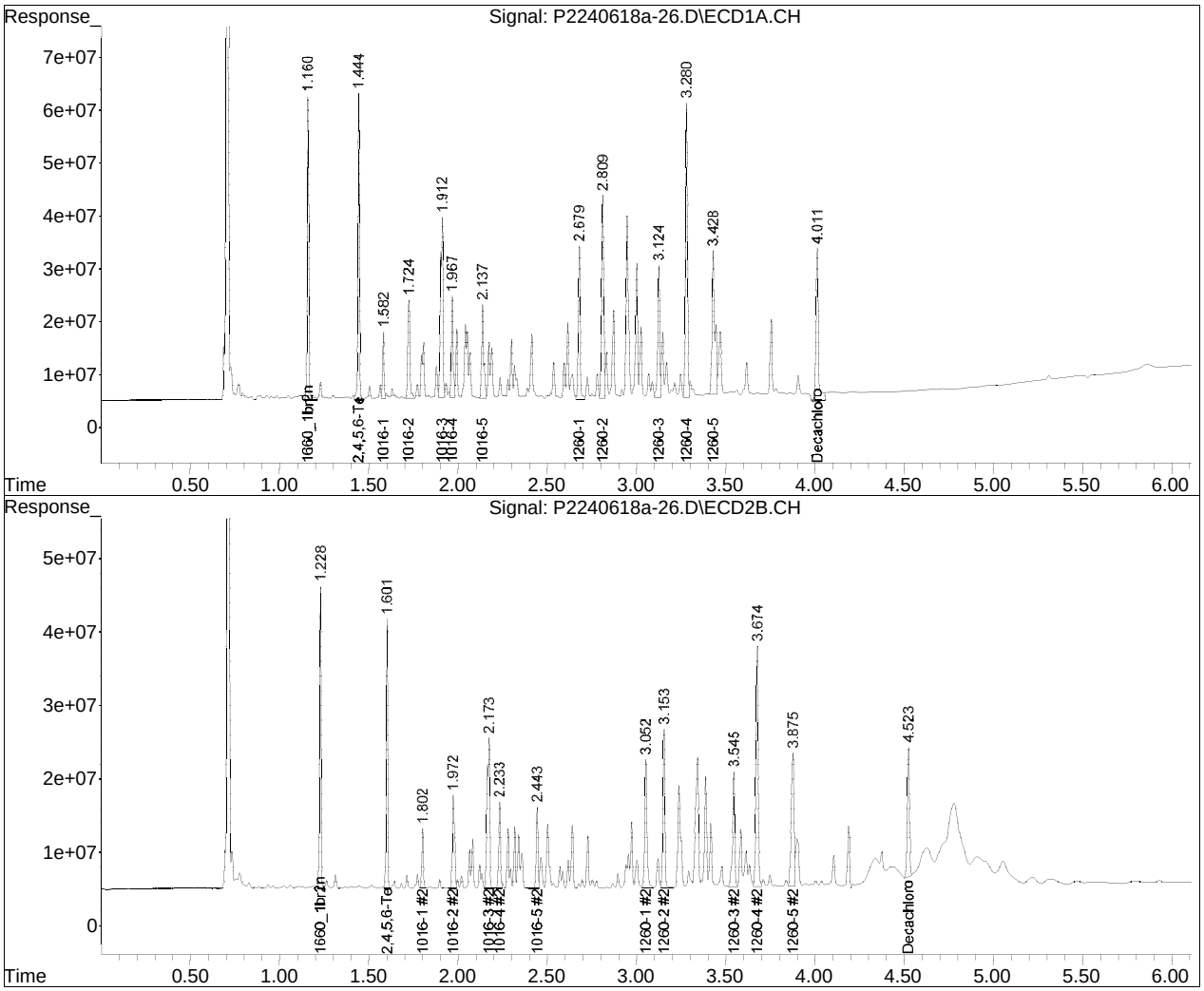
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240618A\P2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:46
Operator : pest2:mhg
Sample : WG1935917-4,42,,ms
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:20 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

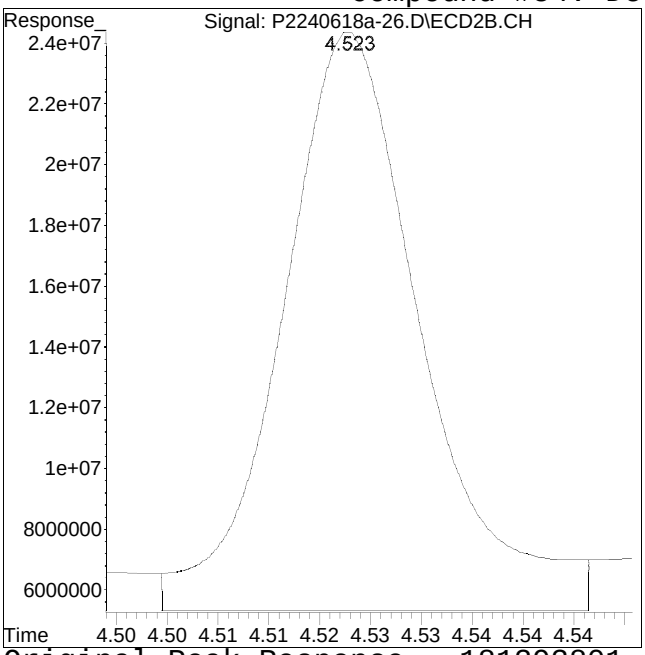
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

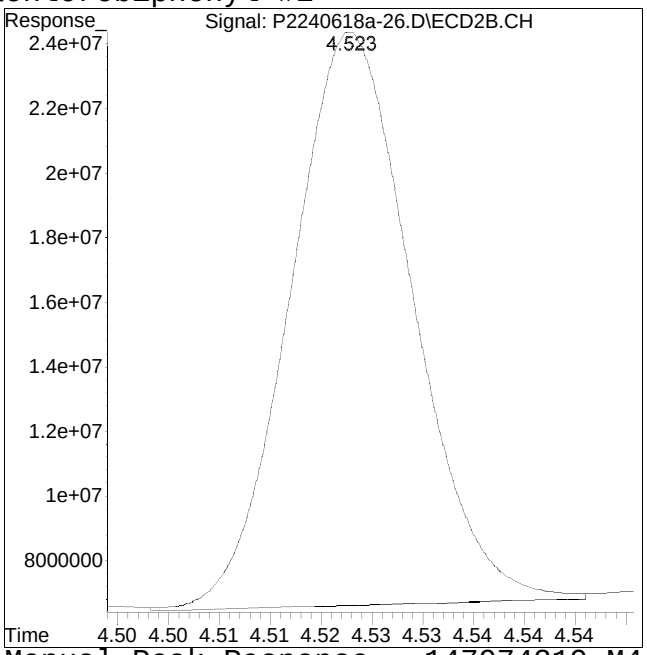


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #54: Decachlorobiphenyl #2



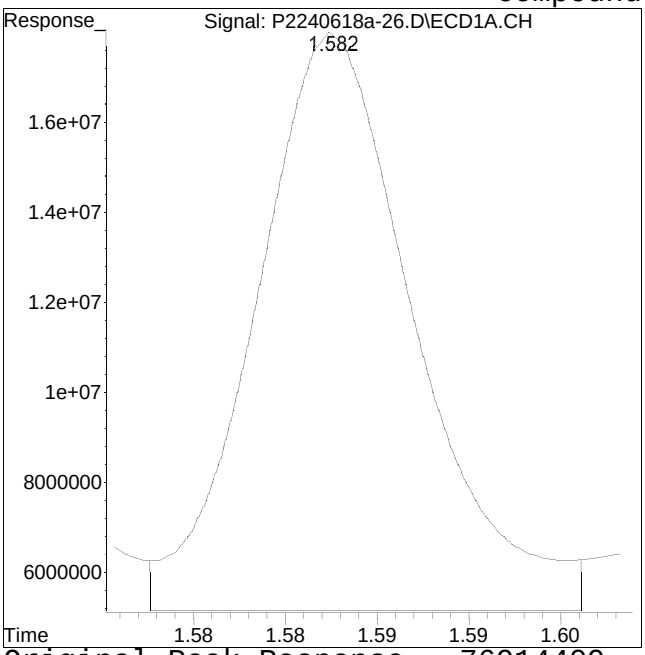


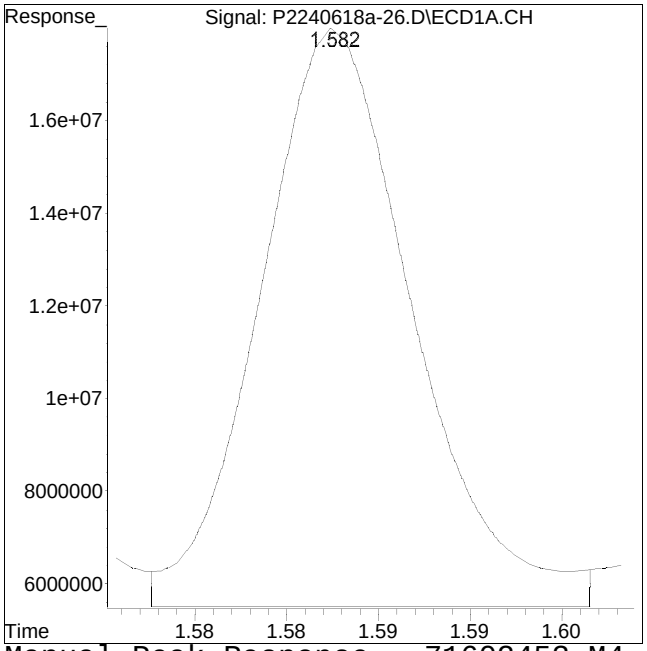
Original Peak Response = 181393801 Manual Peak Response = 147974219 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #4: 1016-1



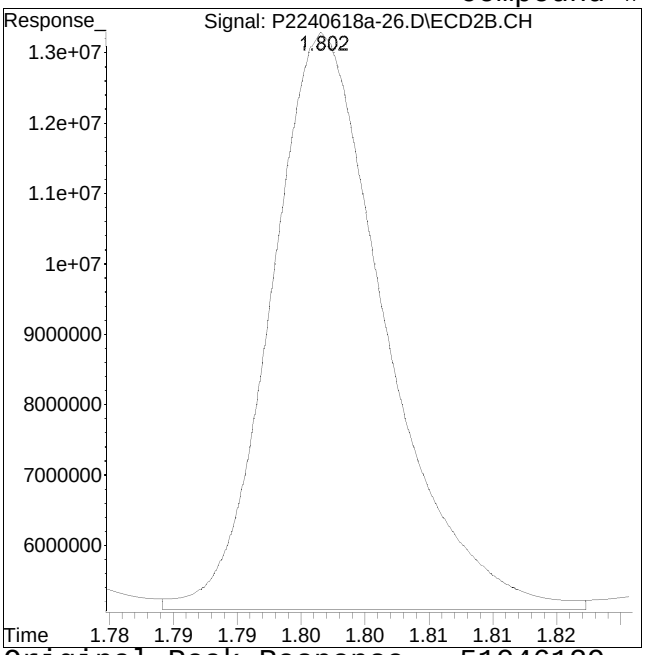


Original Peak Response = 76914409 Manual Peak Response = 71602453 M4
M4 = Poor automated baseline construction.

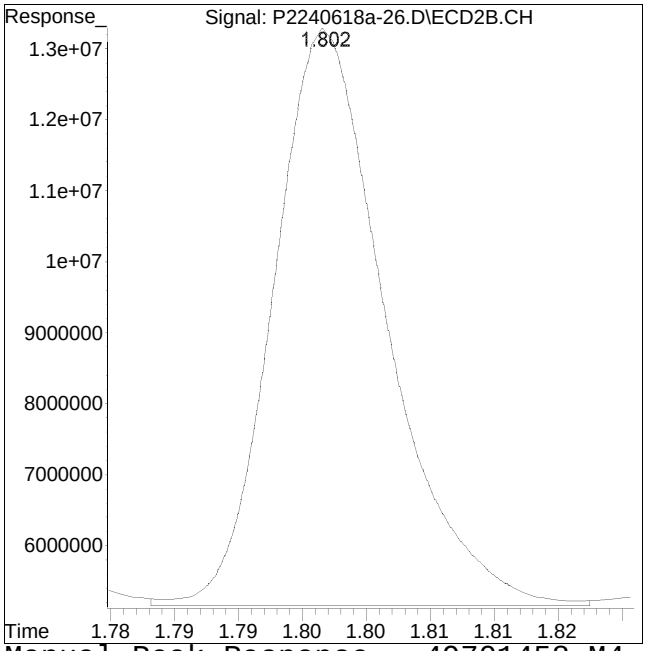
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #55: 1016-1 #2



Original Peak Response = 51046129



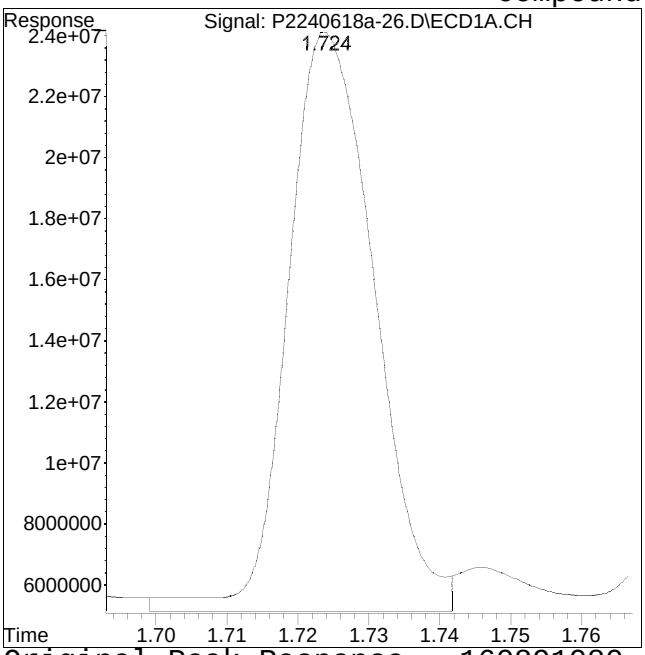
Manual Peak Response = 49701458 M4

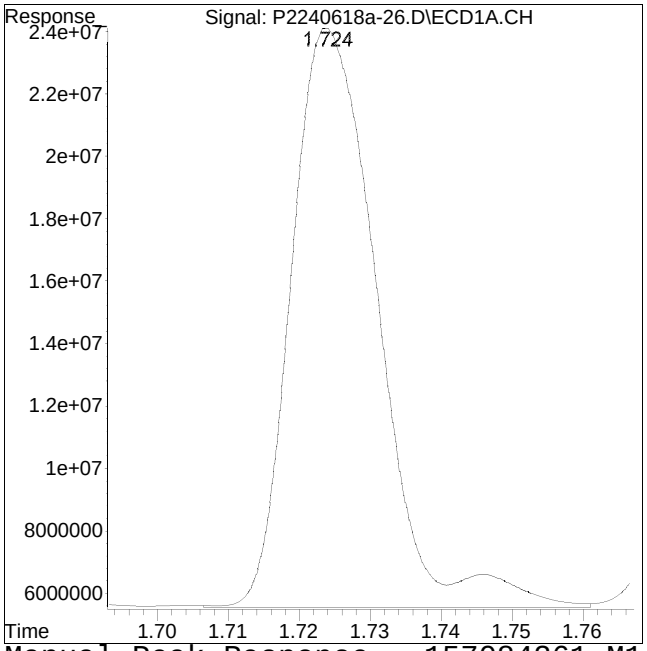
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #5: 1016-2



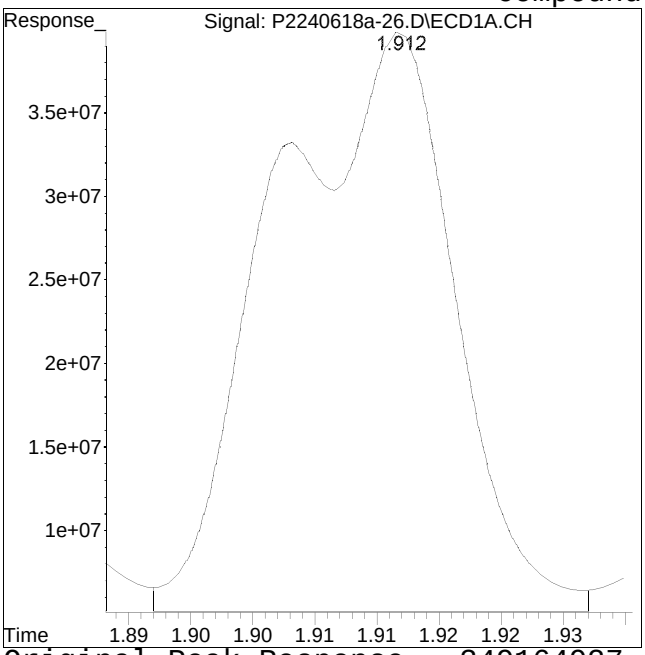


Original Peak Response = 160891980 Manual Peak Response = 157084261 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

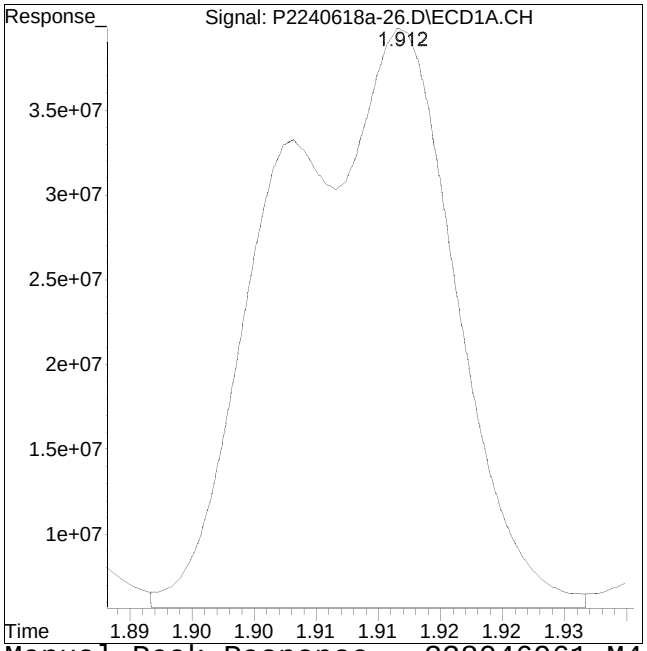
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #6: 1016-3



Original Peak Response = 349164927



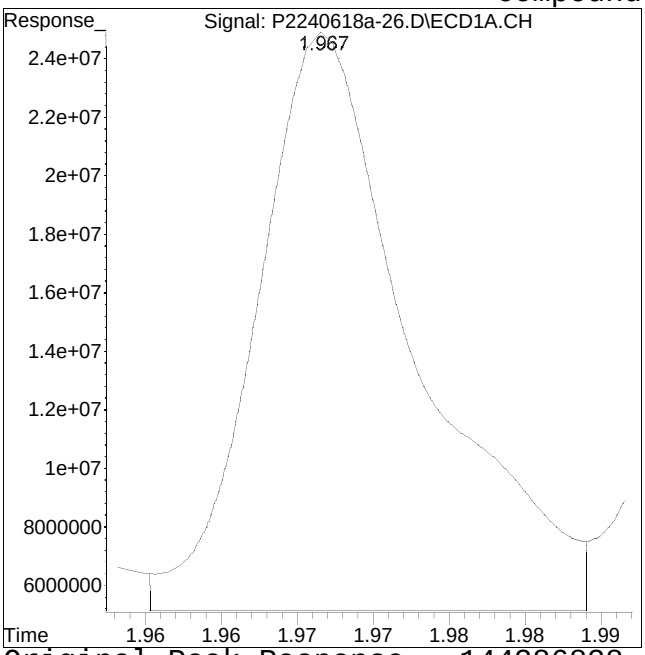
Manual Peak Response = 338046961 M4

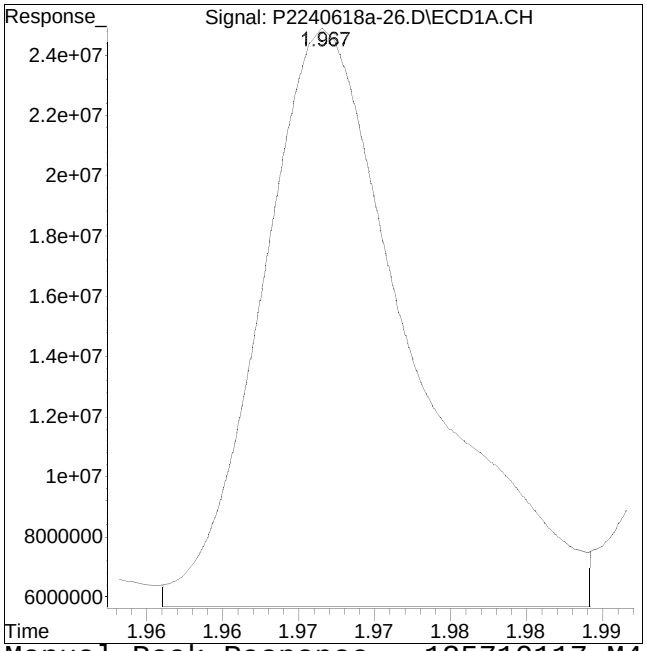
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #7: 1016-4



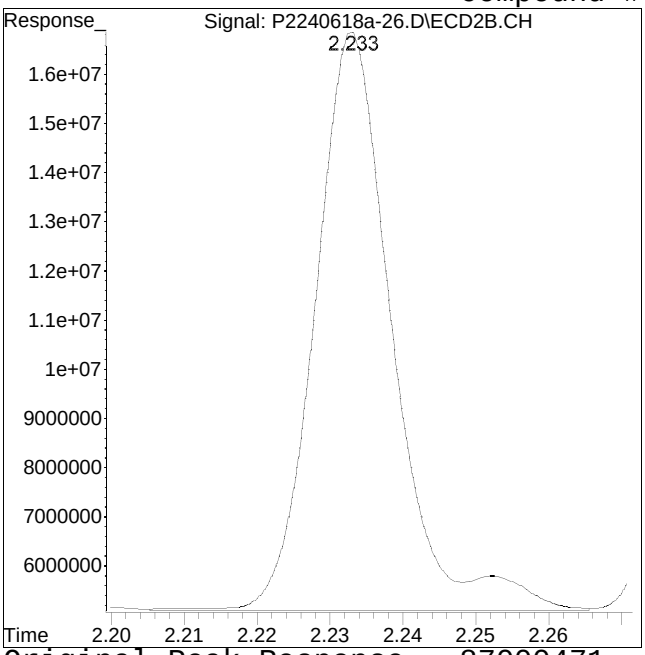


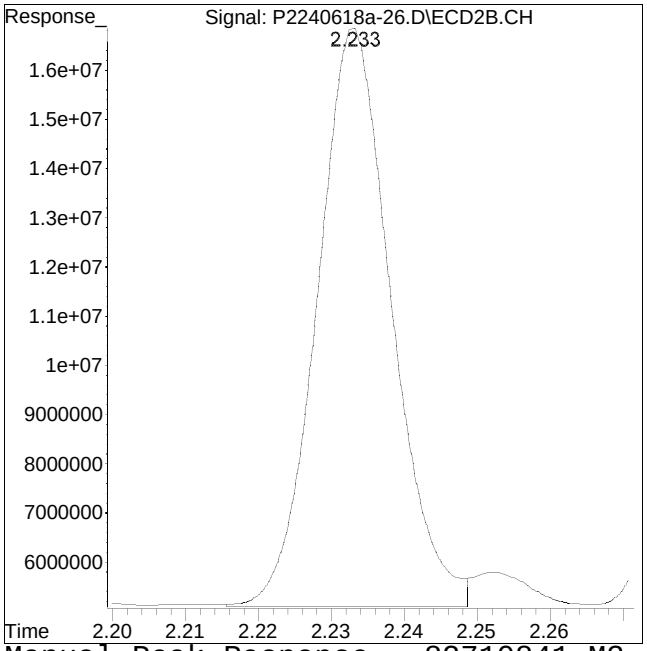
Original Peak Response = 144386828 Manual Peak Response = 135710117 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #58: 1016-4 #2



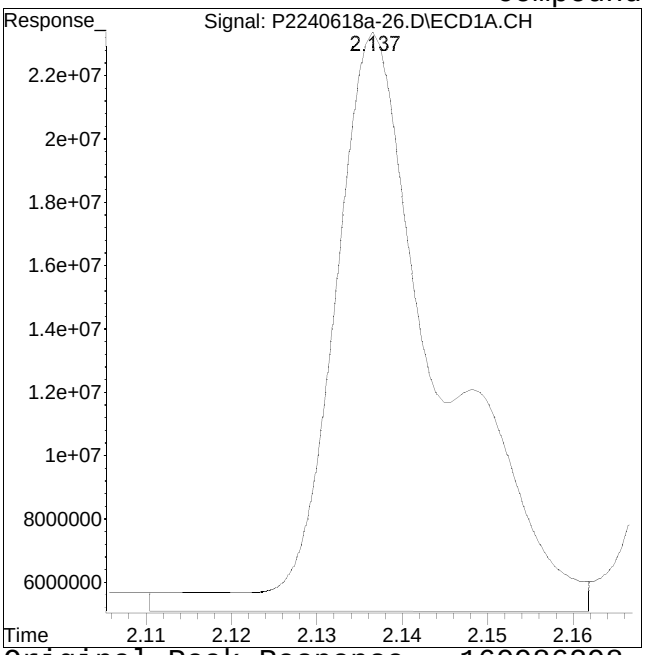


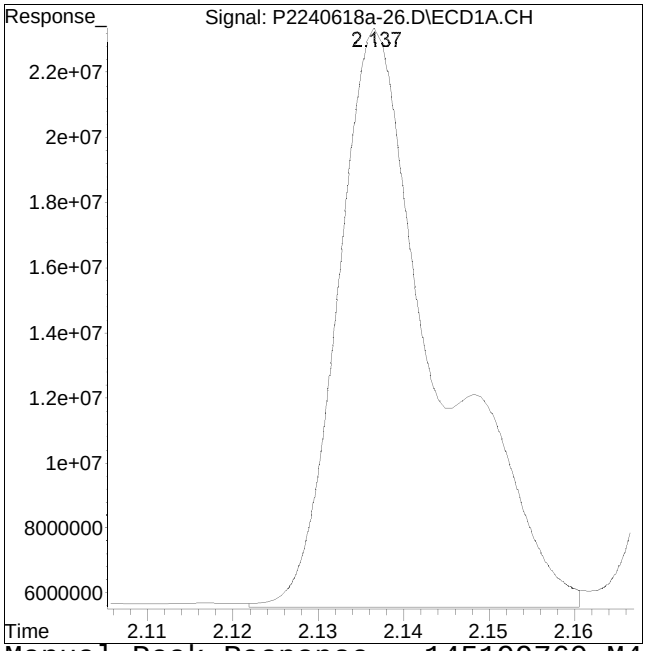
Original Peak Response = 87000471 Manual Peak Response = 82710841 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #8: 1016-5



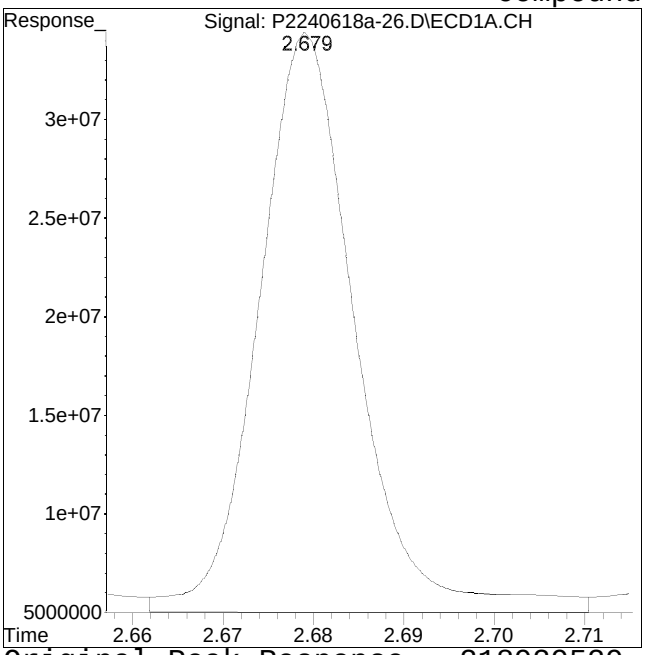


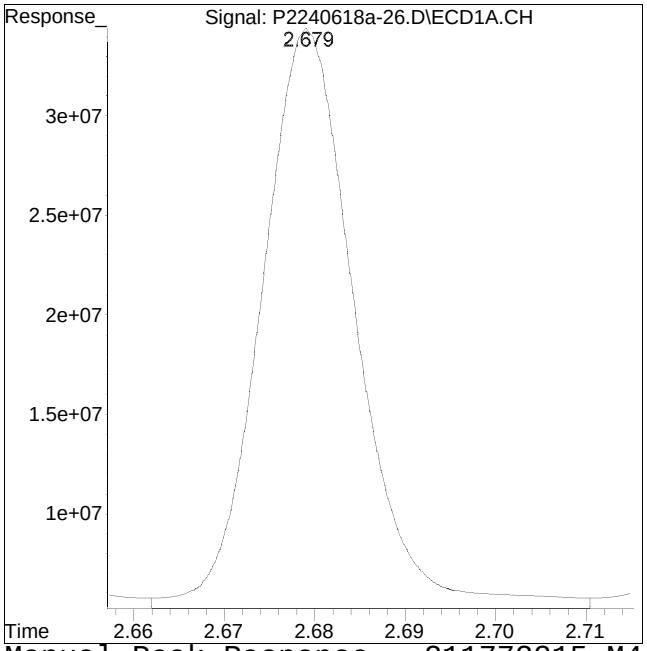
Original Peak Response = 160986298 Manual Peak Response = 145199760 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #9: 1260-1



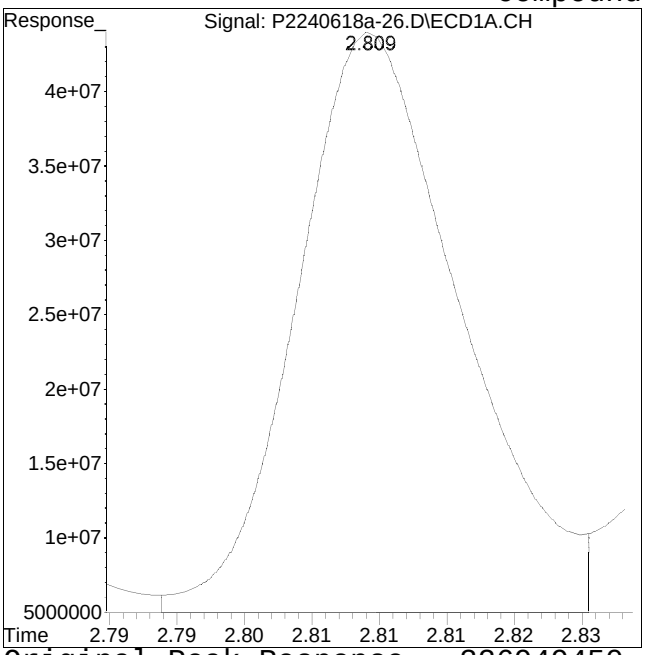


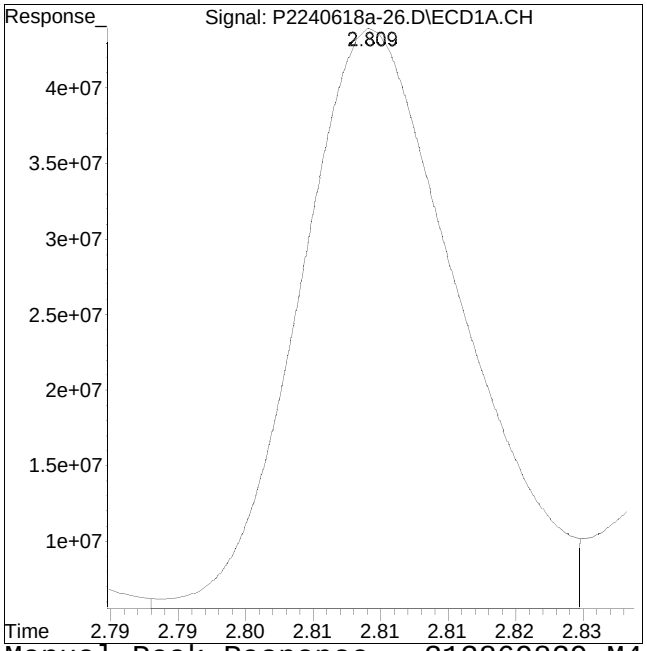
Original Peak Response = 218929529 Manual Peak Response = 211772215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #10: 1260-2



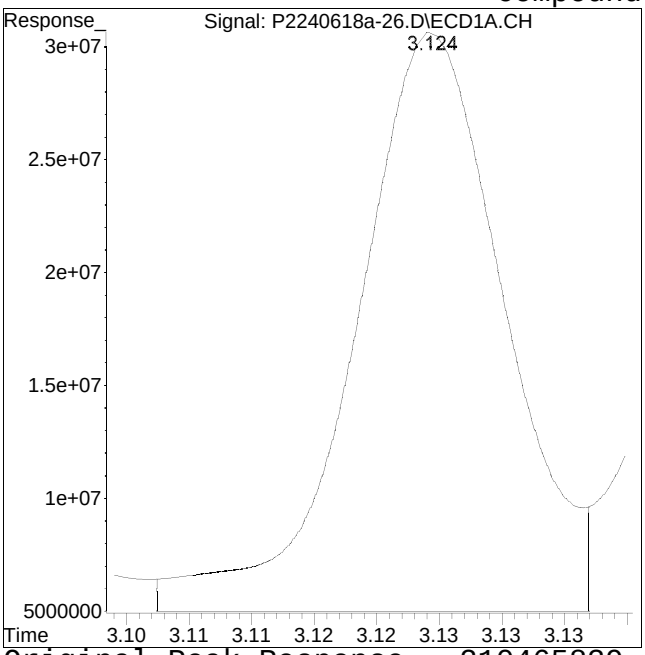


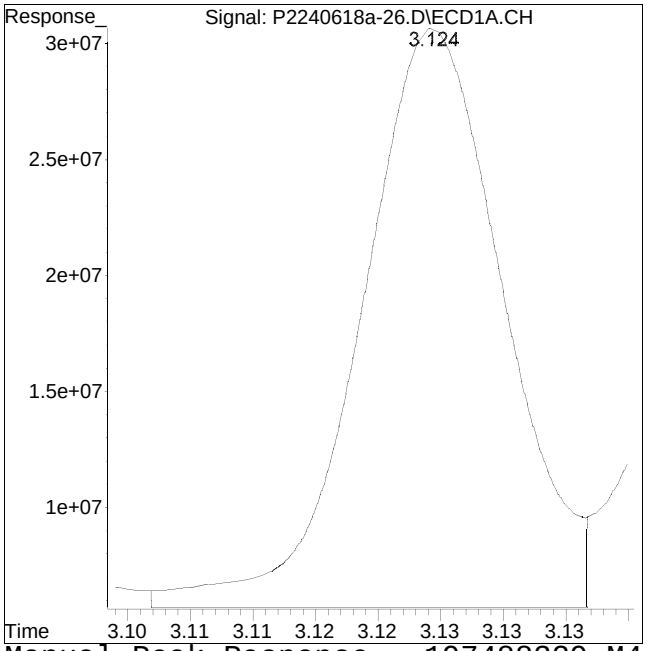
Original Peak Response = 326949450 Manual Peak Response = 313869829 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #11: 1260-3



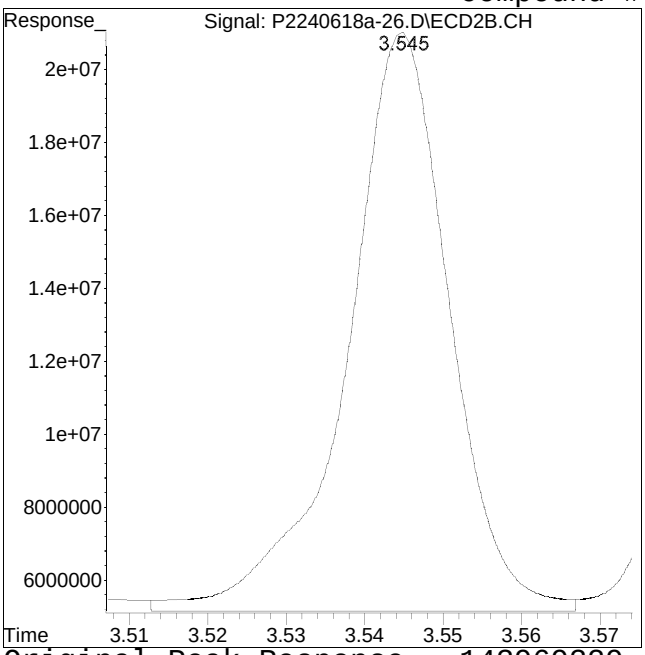


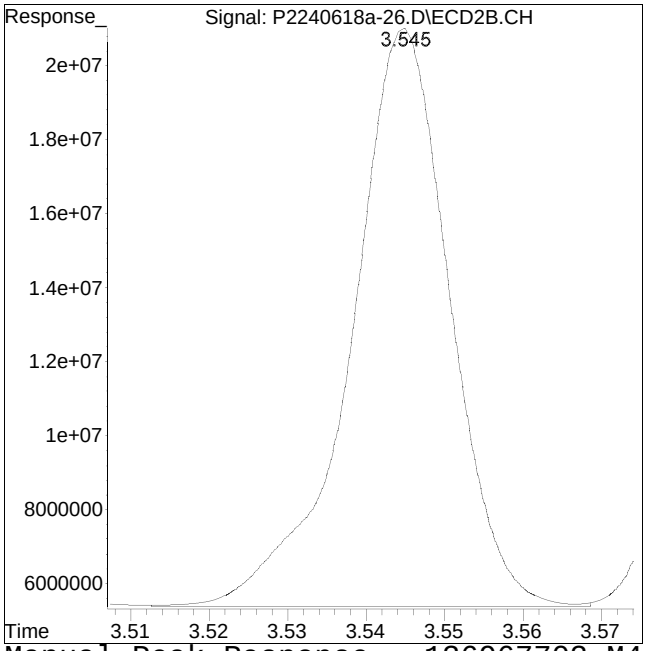
Original Peak Response = 210465839 Manual Peak Response = 197488329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #62: 1260-3 #2



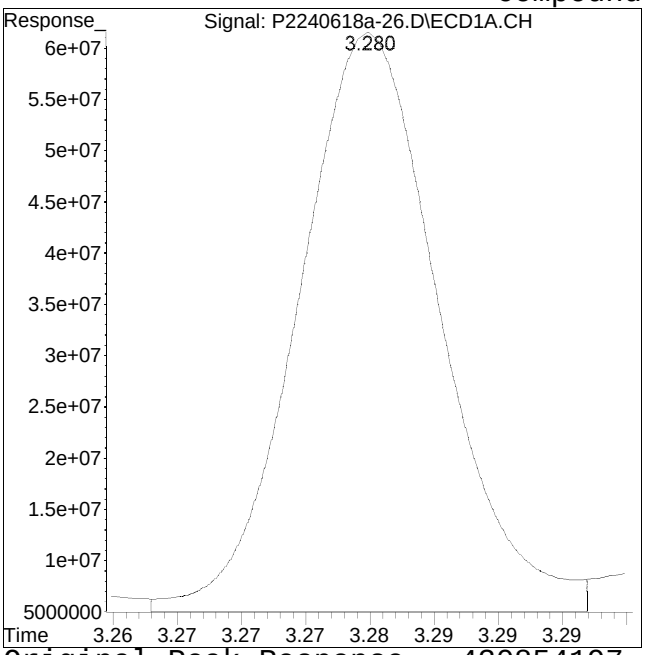


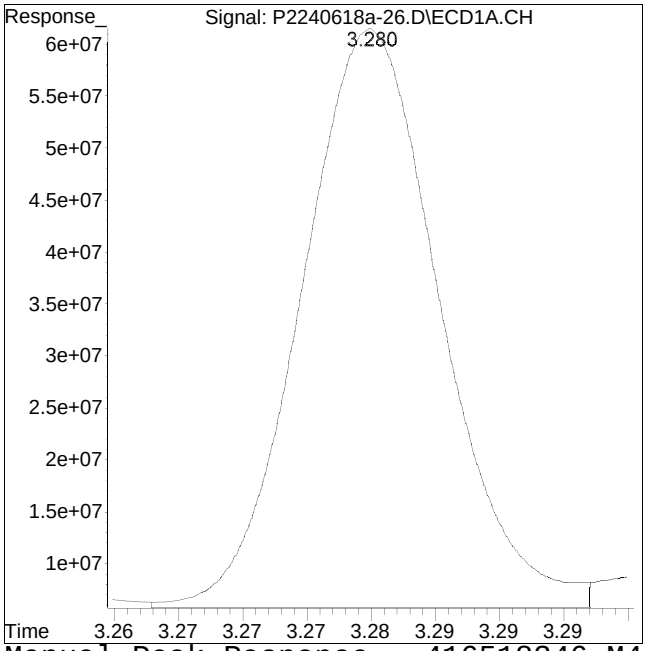
Original Peak Response = 143969329 Manual Peak Response = 136967703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #12: 1260-4



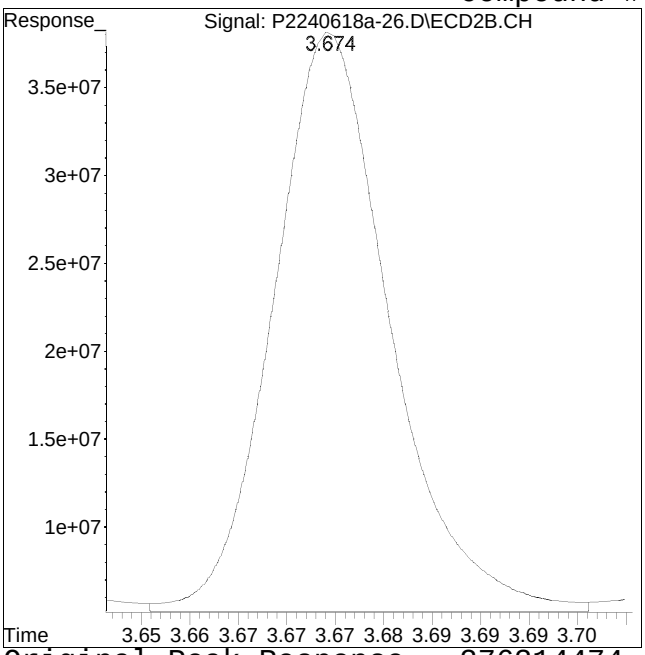


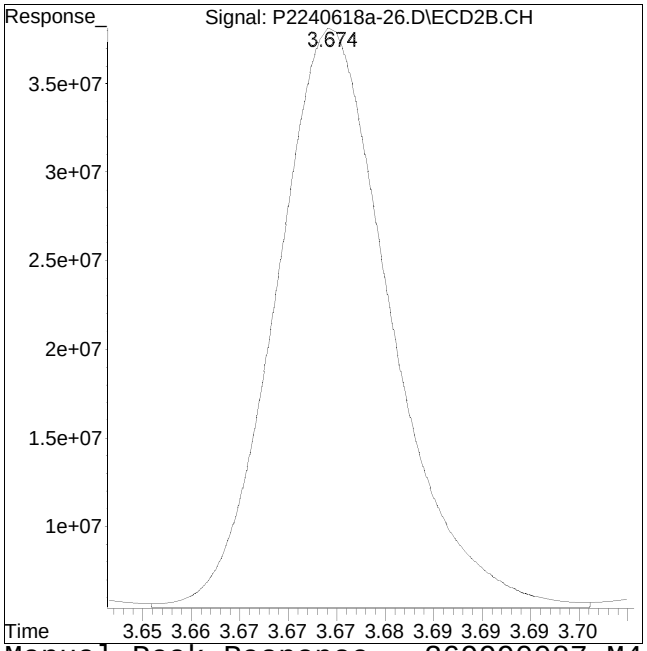
Original Peak Response = 430854197 Manual Peak Response = 416518346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #63: 1260-4 #2



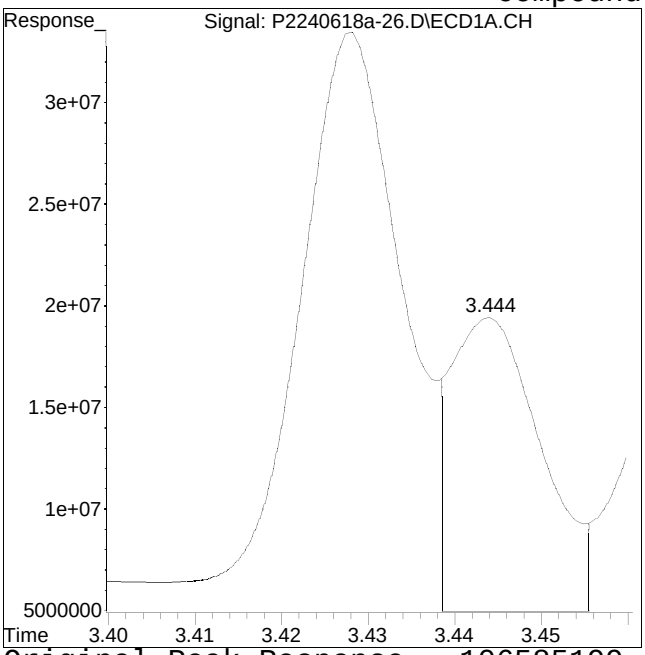


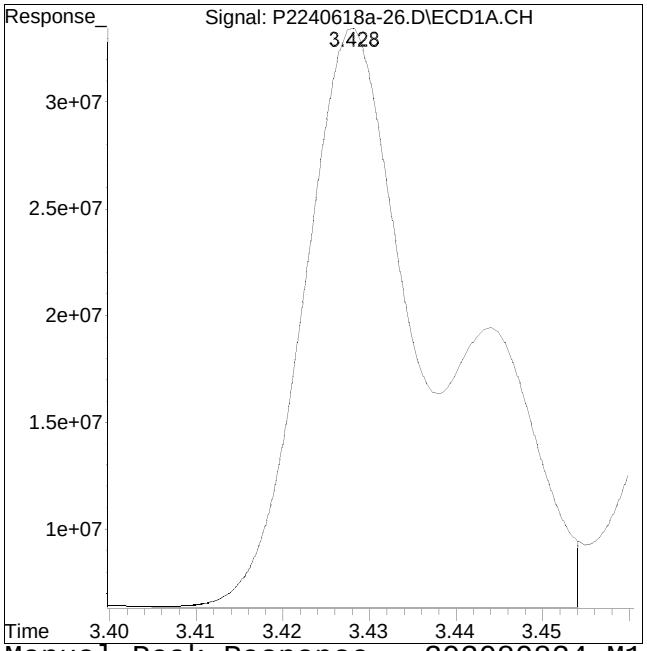
Original Peak Response = 276314474 Manual Peak Response = 269990087 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #13: 1260-5



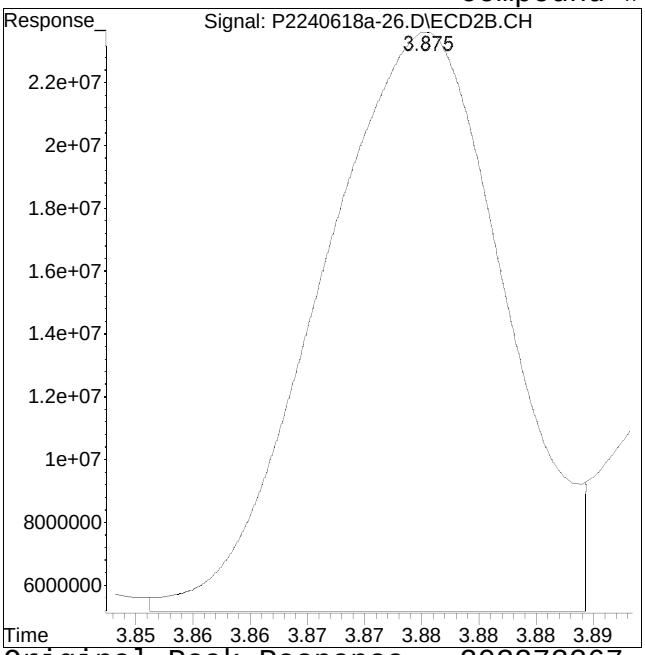


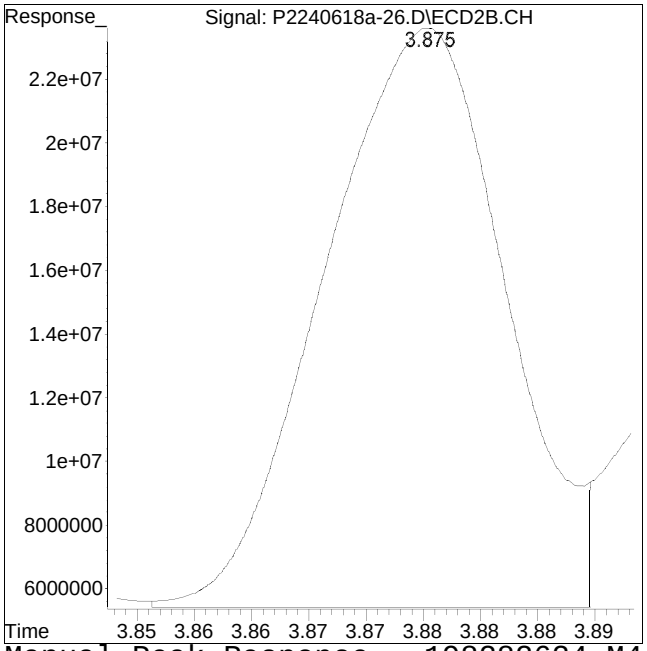
Original Peak Response = 106585199 Manual Peak Response = 303080824 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-26.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:46 Instrument : Pest 2
Sample : WG1935917-4,42,,ms Quant Date : 6/19/2024 6:05 am

Compound #64: 1260-5 #2





Original Peak Response = 203273367 Manual Peak Response = 198282624 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:54
Operator : pest2:mhg
Sample : WG1935917-5,42,,msd (Sig #1); WG1935917-5,42,,dup (Sig #2)
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:24 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.159	1.228	338.8E6	227.5E6	25.000	25.000
Standard Area 1 : #1 = 341997961				Recovery =	99.07%	
Standard Area 1 : #2 = 250283431				Recovery =	90.88%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.443	1.602	305.1E6	188.7E6	17.176	16.836
Spiked Amount 20.000	Range 30 - 150			Recovery =	85.88%	84.18%
3) s Decachlorobi	4.011	4.524	244.6E6	137.2E6	21.308	25.994
Spiked Amount 20.000	Range 30 - 150			Recovery =	106.54%	129.97%
Target Compounds						
4) l1 1016-1	1.581	1.802	65958362	48264922	216.866M4	252.134
5) l1 1016-2	1.722	1.973	152.4E6	105.9E6	228.625M1	251.826
6) l1 1016-3	1.911	2.173	311.9E6	204.4E6	227.562M4	242.985
7) l1 1016-4	1.966	2.233	124.2E6	77923404	227.230M3	250.507M3
8) l1 1016-5	2.136	2.444	136.1E6	68948742	224.548M4	261.510
Sum 1016-1			790.5E6	505.4E6	1124.830	1258.962
Average 1016-1					224.966	251.792
9) l2 1260-1	2.679	3.052	189.7E6	135.5E6	216.866	276.023
10) l2 1260-2	2.809	3.153	294.0E6	153.8E6	222.933	273.830
11) l2 1260-3	3.124	3.545	179.6E6	124.2E6	219.218	285.096M4
12) l2 1260-4	3.279	3.674	388.7E6	241.4E6	221.425M4	275.708M4
13) l2 1260-5	3.427	3.875	279.3E6	177.4E6	227.006M1	295.469M4
Sum 1260-1			1331.3E6	832.4E6	1107.448	1406.127
Average 1260-1					221.490	281.225
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:54
Operator : pest2:mhg
Sample : WG1935917-5,42,,msd (Sig #1); WG1935917-5,42,,dup (Sig #2)
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:24 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240618A\P2240618a-17.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

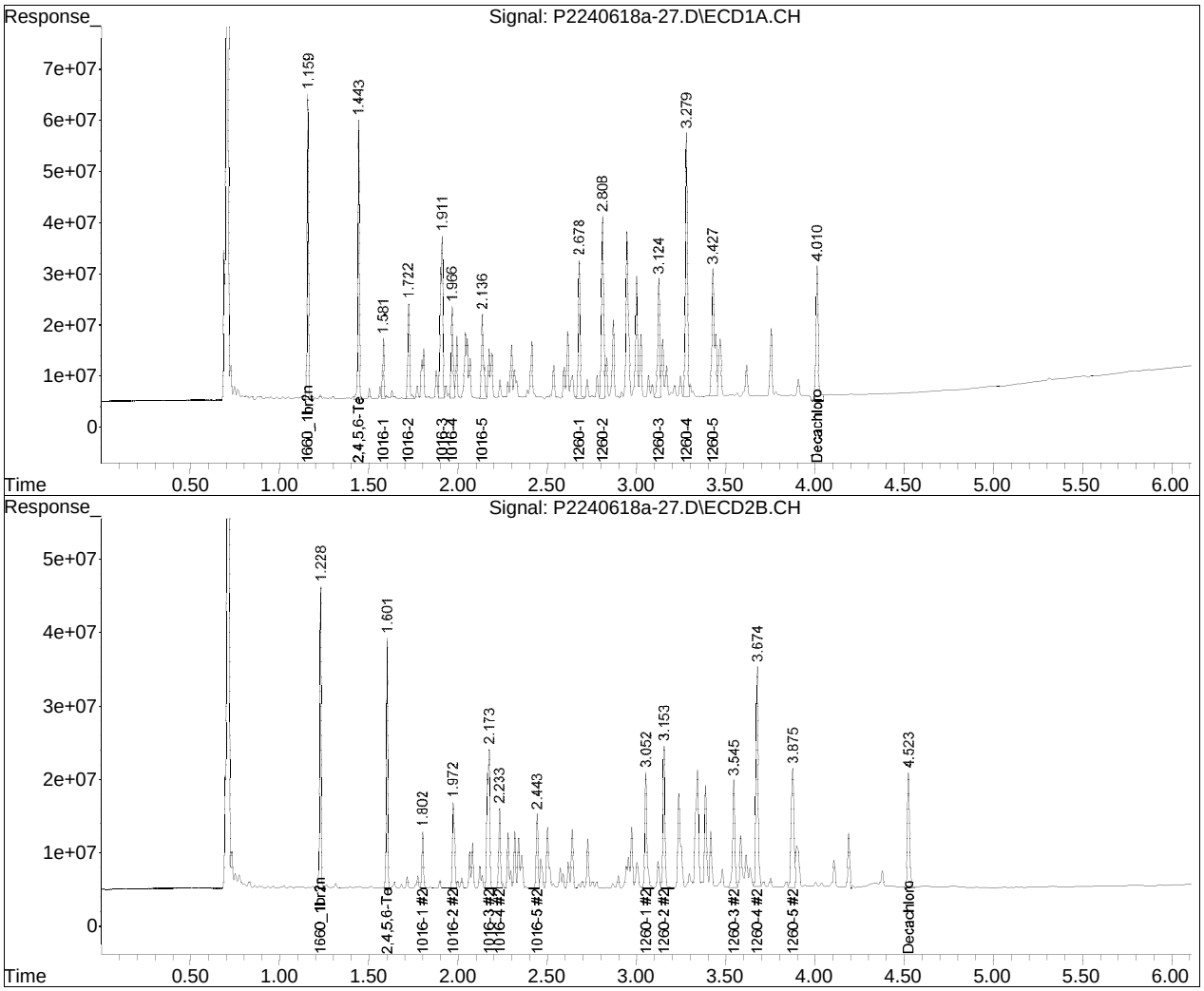
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240618A\P2240618a-17.D•

Data Path : I:\PCB\Pest2\2024\240618A\
Data File : P2240618a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jun 2024 1:54
Operator : pest2:mhg
Sample : WG1935917-5,42,,msd (Sig #1); WG1935917-5,42,,dup (Sig #2)
Misc : WG1935684,WG1935917,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 19 06:05:24 2024
Quant Method : I:\PCB\Pest2\2024\240618A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

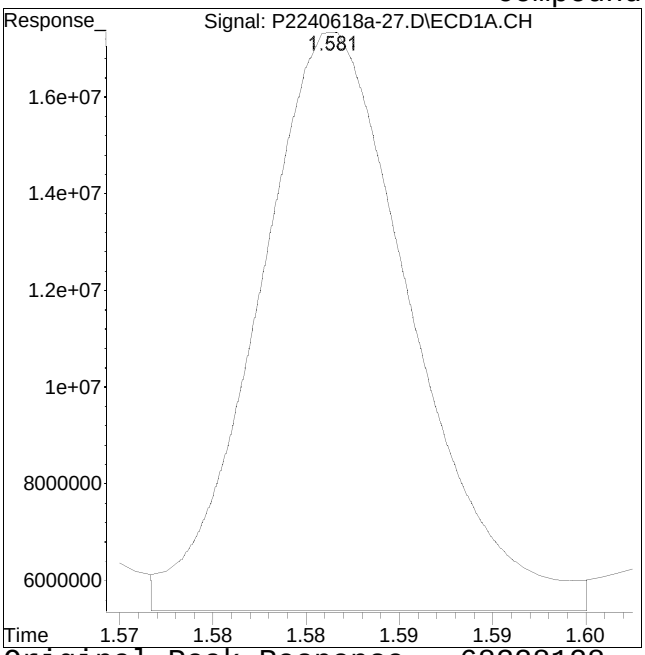
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

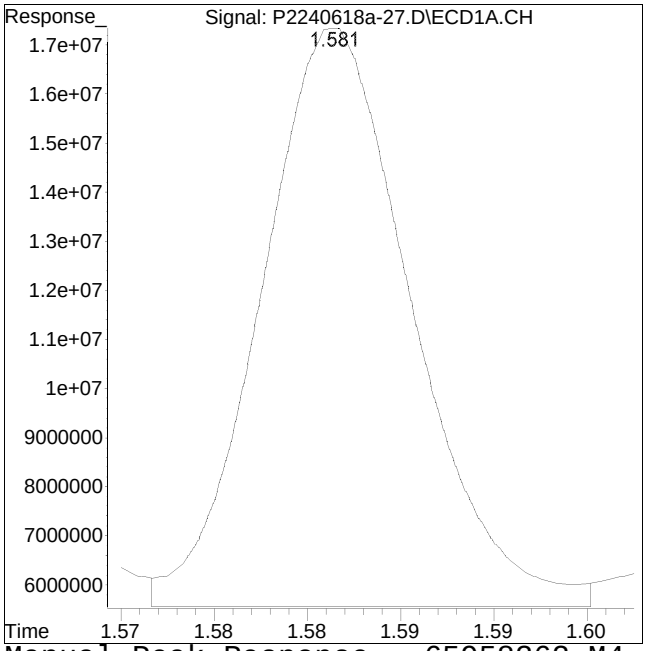


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #4: 1016-1



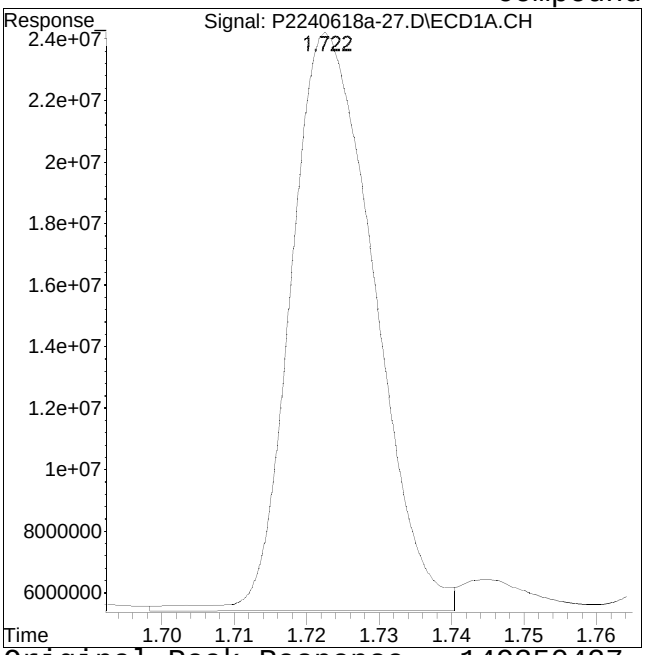


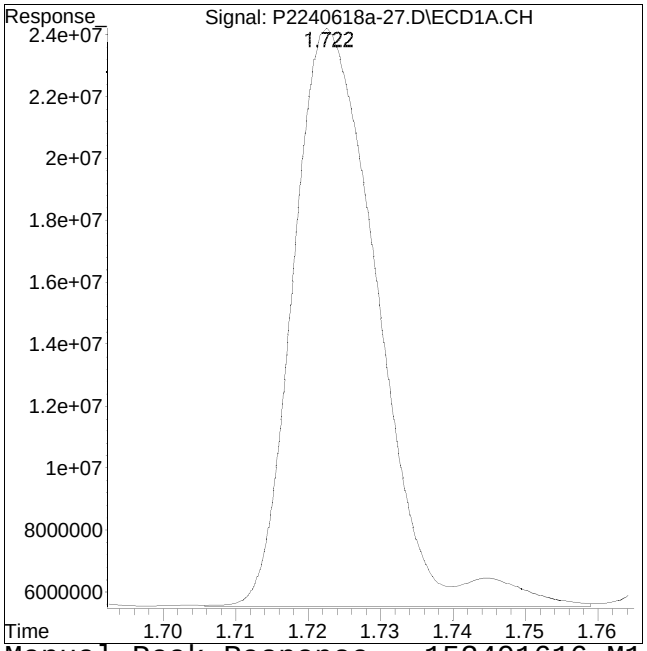
Original Peak Response = 68328128 Manual Peak Response = 65958362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #5: 1016-2



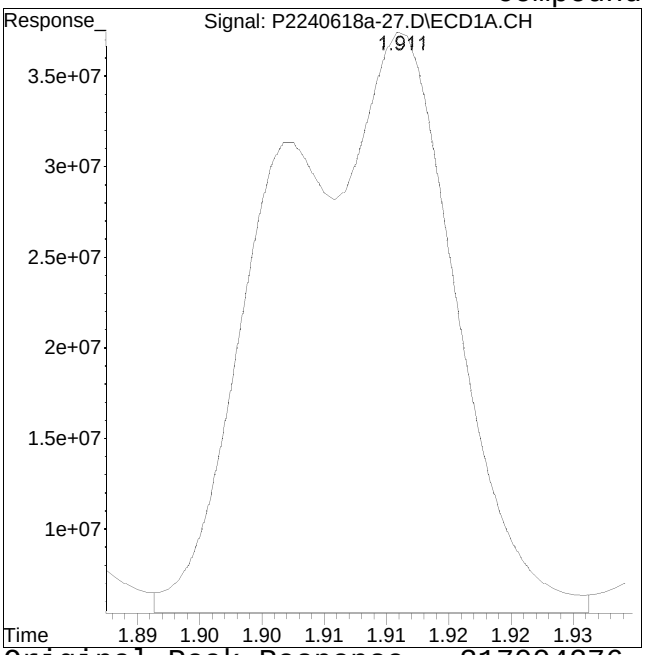


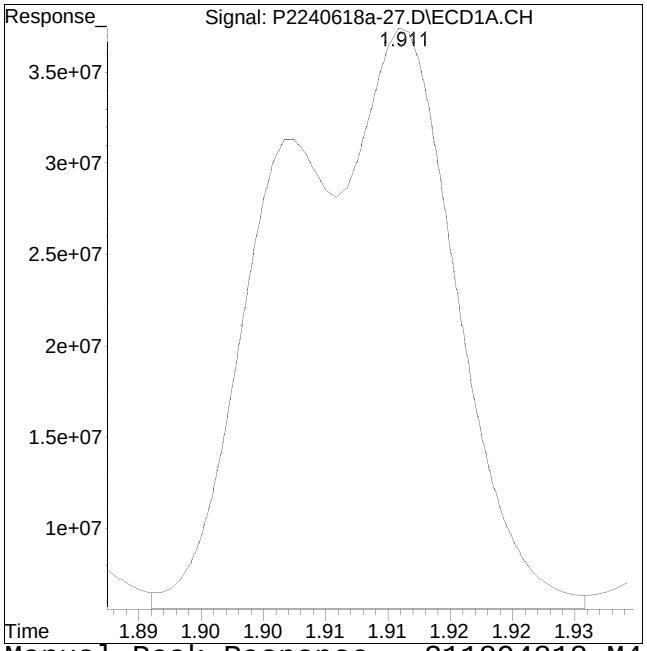
Original Peak Response = 149350427 Manual Peak Response = 152401616 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #6: 1016-3



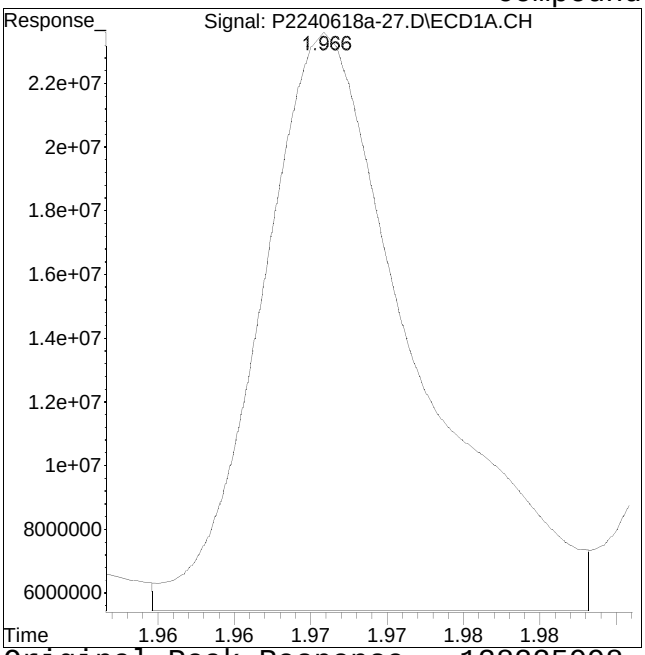


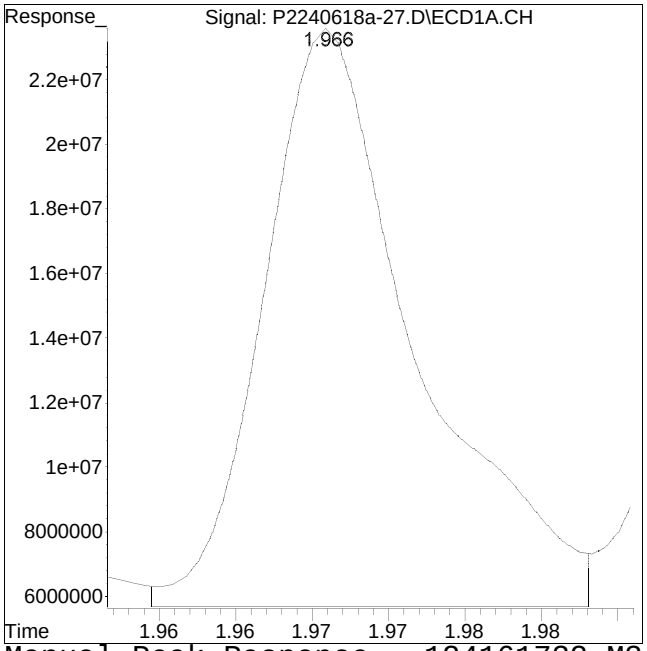
Original Peak Response = 317004276 Manual Peak Response = 311894818 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #7: 1016-4



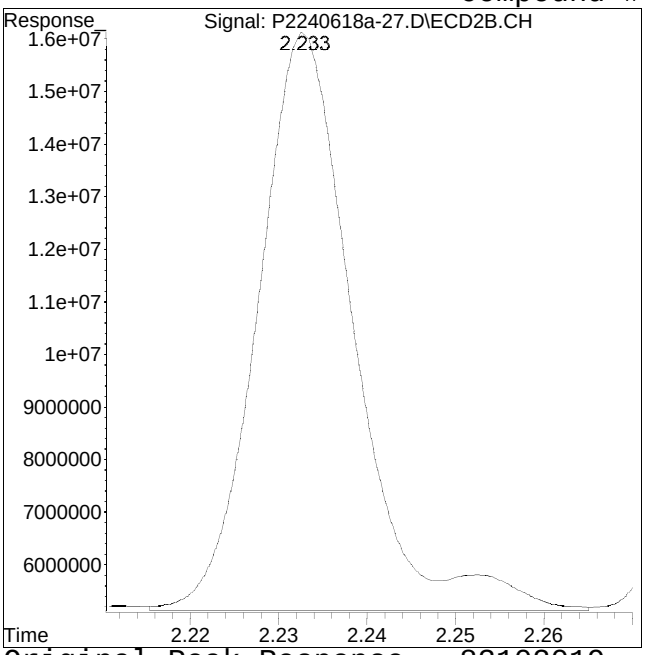


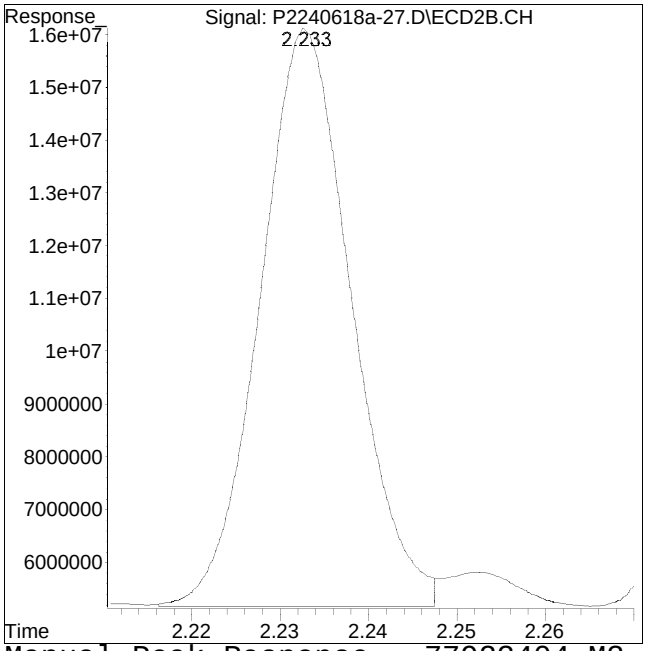
Original Peak Response = 128225998 Manual Peak Response = 124161732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #58: 1016-4 #2



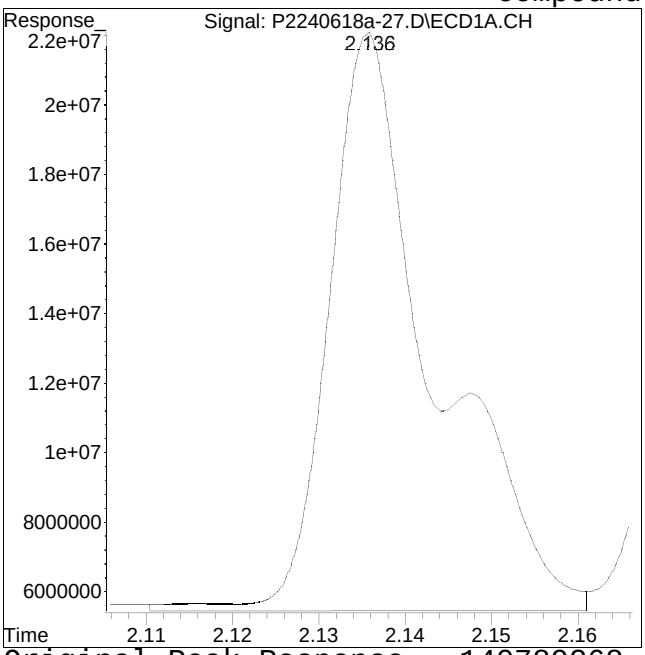


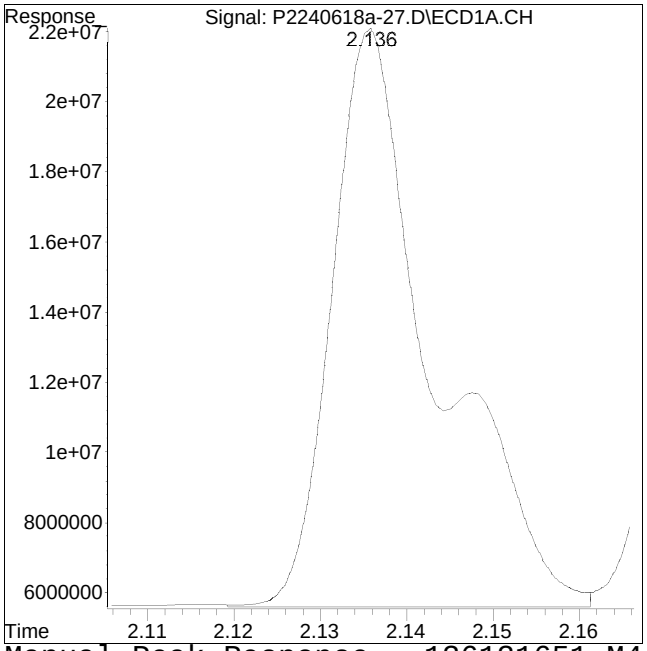
Original Peak Response = 83102019 Manual Peak Response = 77923404 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #8: 1016-5



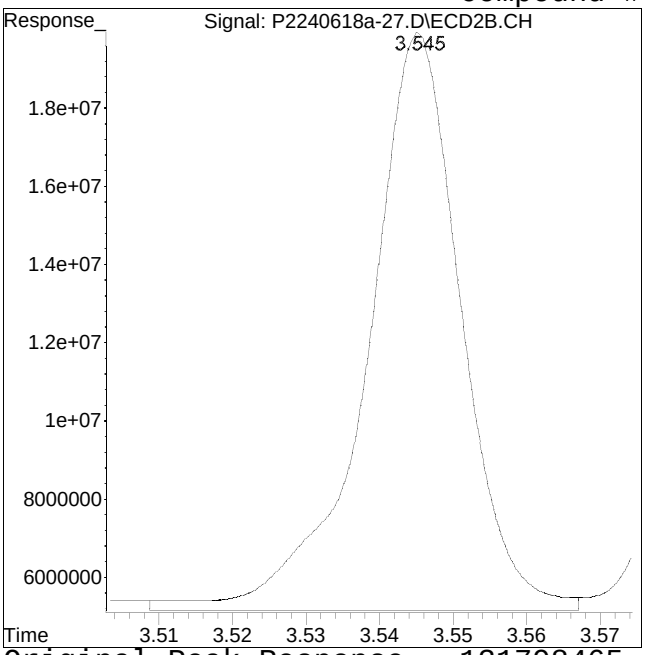


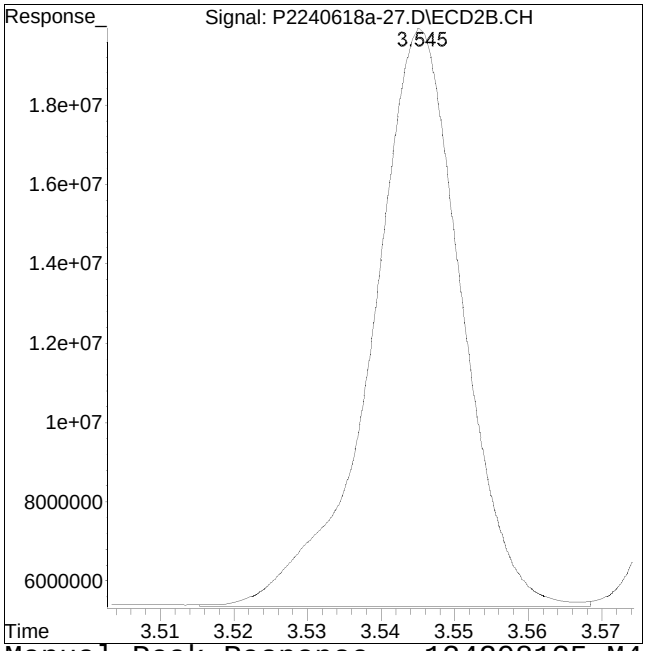
Original Peak Response = 140789268 Manual Peak Response = 136131651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #62: 1260-3 #2



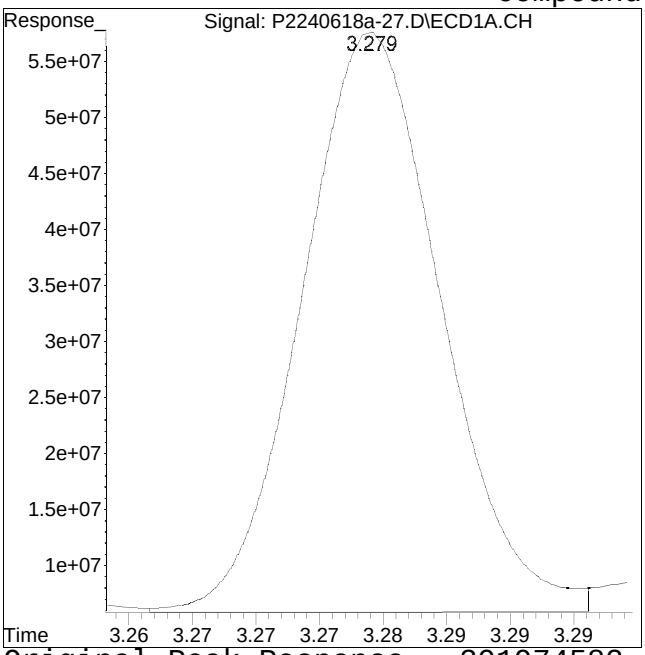


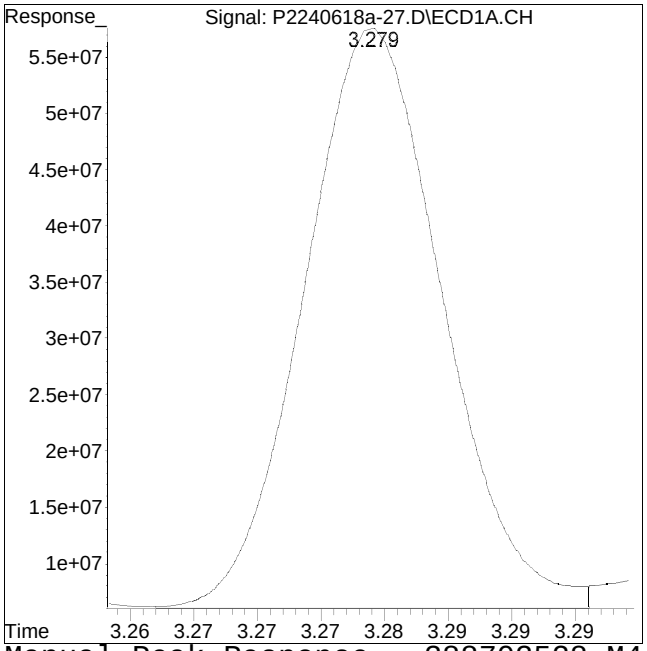
Original Peak Response = 131798465 Manual Peak Response = 124208135 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #12: 1260-4



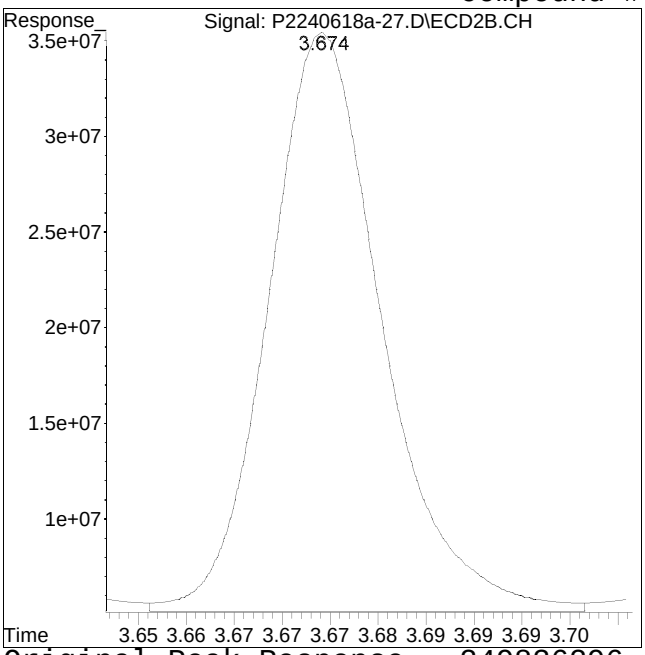


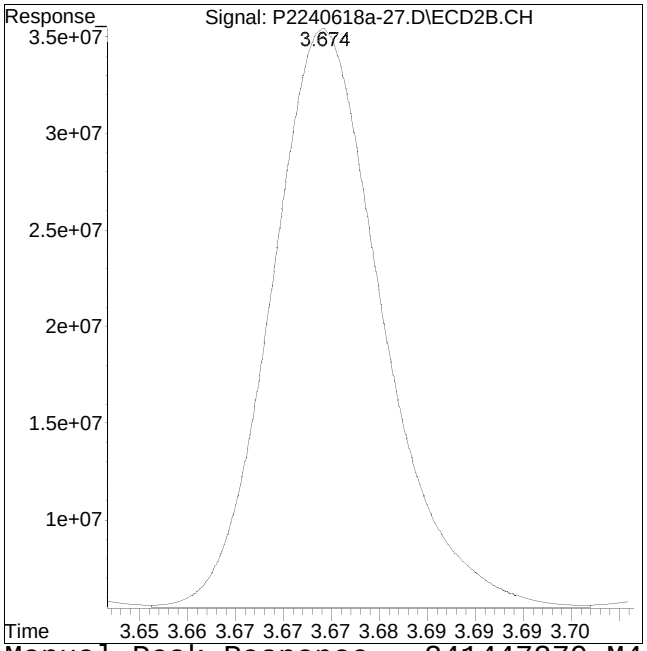
Original Peak Response = 391974582 Manual Peak Response = 388703528 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #63: 1260-4 #2



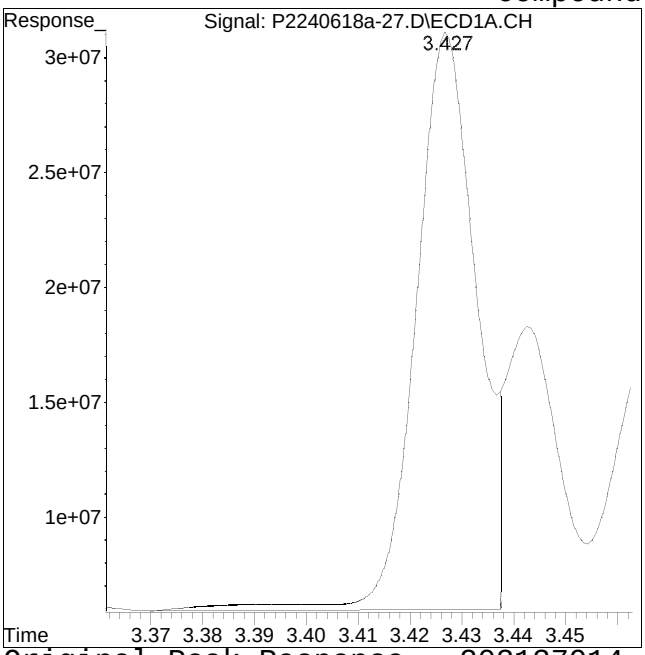


Original Peak Response = 249836296 Manual Peak Response = 241447270 M4
M4 = Poor automated baseline construction.

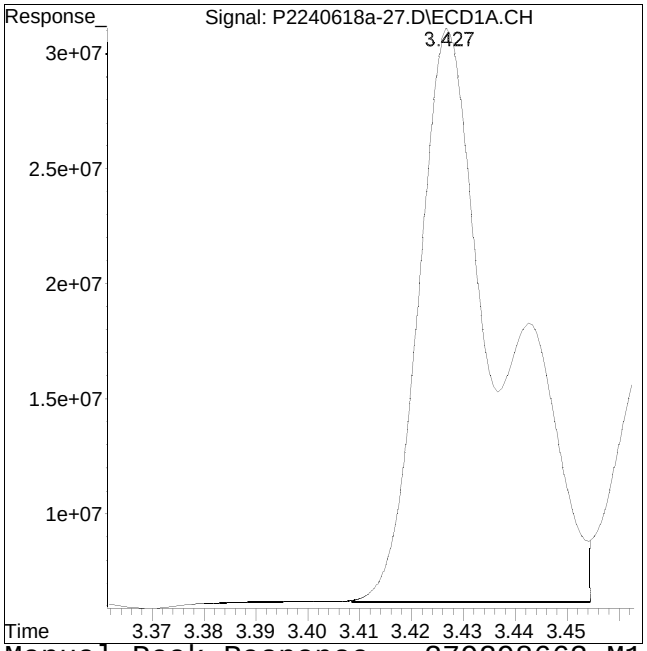
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #13: 1260-5



Original Peak Response = 203137914



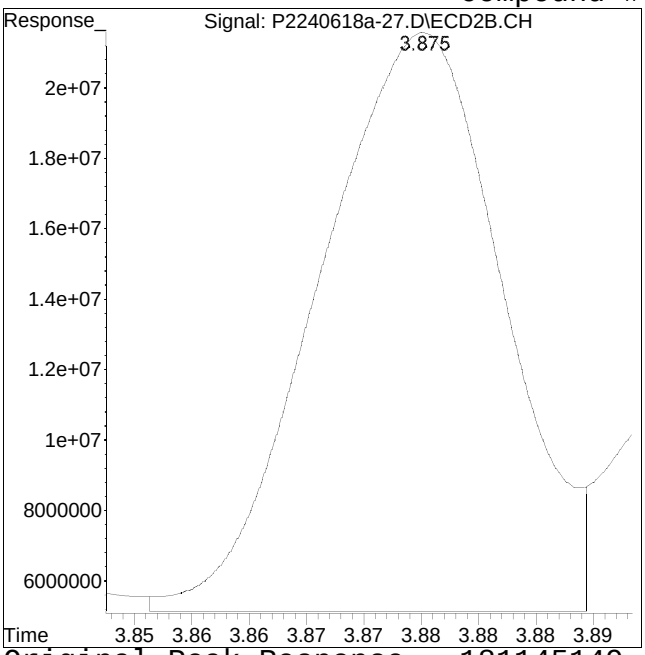
Manual Peak Response = 279298663 M1

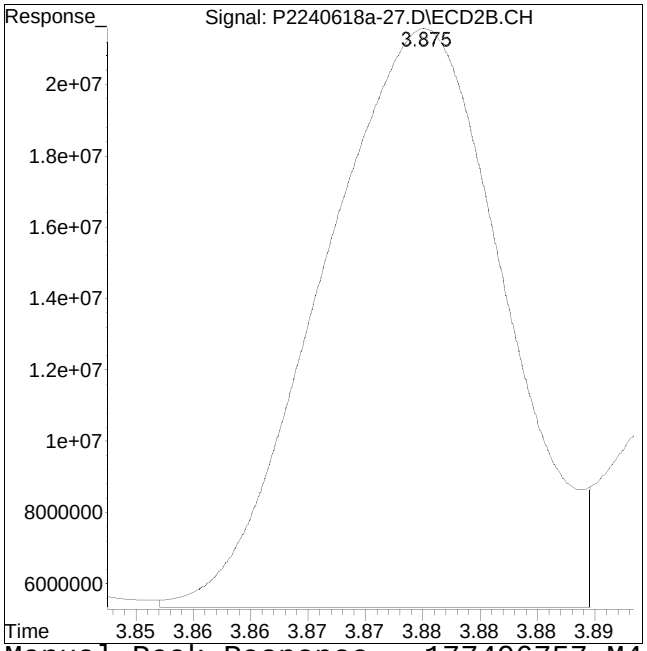
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240618A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240618a-27.D Operator : pest2:mhg
Date Inj'd : 6/19/2024 1:54 Instrument : Pest 2
Sample : WG1935917-5,42,,msd Quant Date : 6/19/2024 6:05 am

Compound #64: 1260-5 #2





Original Peak Response = 181145149 Manual Peak Response = 177406757 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **05/06/24**
Run: **I**

Method
GC: lvi

Seq: WG1918477
IS: pp11528
ICAL21102

Vial	Data File	Sample	CCAL	notes	initials
1	P2240506i-01	blank			
2	P2240506i-02	+1660 ccal pp11545 lvi icv			
3	P2240506i-03	il44268,42e,,pp 11454			RMP 5/7
4	P2240506i-04	il43262,42e,,pp 11457			RMP 5/7
5	P2240506i-05	il41248,42e,,pp 11452			RMP 5/7
6	P2240506i-06	il42154,42e,,pp 11449			RMP 5/7
7	P2240506i-07	il11660,42e,,pp 11447	Interference		
8	P2240506i-08	il21660,42e,,pp 11447			RMP 5/7
9	P2240506i-09	il31660,42e,,pp 11447			RMP 5/7
10	P2240506i-10	il41660,42e,,pp 11447			RMP 5/7
11	P2240506i-11	il51660,42e,,pp 11447			RMP 5/7
12	P2240506i-12	il61660,42e,,pp 11447			RMP 5/7
13	P2240506i-13	cicv4268,42,,pp 11468			RMP 5/7
14	P2240506i-14	cicv3262,42,,pp 11467			RMP 5/7
15	P2240506i-15	cicv1248,42,,pp 11461			RMP 5/7
16	P2240506i-16	cicv2154,42,,pp 11460			RMP 5/7
17	P2240506i-17	cicv1660,42,,pp 11459	RR L1	V to F17 rmp	
18	P2240506i-18	blank			
19	P2240506i-19	il11660,42e,,pp 11447			RMP 5/7
20	P2240506i-20	cicv1660,42,,pp 11459		V to F20 rmp	RMP 5/7

Dep.: PCB
Inst: Pest_2
Date: **06/18/24**
Run: a

Method
GC: PCB

Seq: WG1935684
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240618a-01	blank				
2	P2240618a-02	+1660 pp11556 lvi ccv				
3	P2240618a-03	prime				
4	P2240618a-04	+1660 pp11556 lvi ccv	15% 5:47 mhg			mhg 6/18
5	P2240618a-05	+2154 pp11460 lvi icv	fail			
6	P2240618a-06	+1248 pp11461 lvi icv	pass			mhg 6/18
7	P2240618a-07	+4268 pp11468 lvi icv	fail			
8	P2240618a-08	+2154 pp11619 lvi icv n	pass			mhg 6/18
9	P2240618a-09	WG1935508-1,42,,			mhg	mhg 6/18
10	P2240618a-10	WG1935508-2,42,,				mhg 6/18
11	P2240618a-11	WG1935508-3,42,,				mhg 6/18
12	P2240618a-12	L2432799-01,42,, re				mhg 6/18
13	P2240618a-13	L2422662-24,42,, re p				mhg 6/18
14	P2240618a-14	WG1935508-4,42,, ms				mhg 6/18
15	P2240618a-15	WG1935508-5,42,, dup		V to F15 mhg		mhg 6/18

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 19 2024, 01:14 pm

Work Group: WG1935917 for Department: 2 Organic Preparation

Created: 18-JUN-24 Due: Operator: ZCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432970-09	FIELD BLANK EAST YOUNG	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2432996-05	FH-GW-1	C	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2432996-06	FH-GW-4	C	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-01	MW-8S	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-02	MW-8D	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-03	MW-1SR	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-04	MW-1DR2	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-05	MP-1	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-06	MP-1D	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-07	PZ-6	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-08	MW-6D	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-09	EB_06122024	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433035-10	DUP_06122024	S	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433160-01	TWP-1	C	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
L2433160-02	TWP-2	C	NYTCL-8082-LVI	WATER	DONE	U	0612	0619	S0	Amber-A.120
WG1935917-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1935917-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1935917-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1935917-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1935917-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1935917-3	WG1935917-2
WG1935917-4	L2433035-03
WG1935917-5	L2433035-03

ORGANIC ELN REPORT

Workgroup: WG1935917

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH560
Surrogate Type: Pesticide/PCB **Lot #:** PP11616ae,11/22/2024,2c,5,1
Spike Type: PCB **Lot #:** pp11443-D, [07/02/24]
Spike Verify by: ZCH
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI5045

Additional Reagents/Stds

H2SO4	2024030587

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI504

Additional Reagents/Stds

Copper	2401cpg001

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2432970-09 WATER	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2432996-05 SAMP	06/18/24 17:19	Richard Nyarko	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2432996-06 SAMP	06/18/24 17:19	Richard Nyarko	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-01 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-02 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3

Reported: 19-JUN-24 01:14 PM

ORGANIC ELN REPORT

Workgroup: WG1935917

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2433035-03 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-04 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-05 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-06 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-07 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-08 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-09 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433035-10 SAMP	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433160-01 SAMP	06/18/24 17:19	Richard Nyarko	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
L2433160-02 SAMP	06/18/24 17:19	Richard Nyarko	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3

ORGANIC ELN REPORT

Workgroup: WG1935917

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1935917-1 BLANK	06/18/24 13:11	Zachary Helin	140	>5, <9	.1		06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
WG1935917-2 LCS	06/18/24 13:11	Zachary Helin	140	>5, <9	.1	.1	06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
WG1935917-3 LCSD	06/18/24 13:11	Zachary Helin	140	>5, <9	.1	.1	06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
WG1935917-4 MS	06/18/24 13:11	Zachary Helin	140	>5, <9	.1	.1	06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3
WG1935917-5 MSD	06/18/24 13:11	Zachary Helin	140	>5, <9	.1	.1	06/18/24 21:16	Kwasi Siriboe	5	H&K,N #3

ORGANIC ELN REPORT

Workgroup: WG1935917

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2432970-09 WATER	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2432996-05 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2432996-06 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-01 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-02 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-03 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-04 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-05 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-06 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-07 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-08 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai

ORGANIC ELN REPORT

Workgroup: WG1935917

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup 2 Cleanup Date	Analyst
L2433035-09 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433035-10 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433160-01 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
L2433160-02 SAMP	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
WG1935917-1 BLANK	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
WG1935917-2 LCS	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
WG1935917-3 LCSD	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
WG1935917-4 MS	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai
WG1935917-5 MSD	06/18/24 22:22	Daniel Erhagbai	5	1	06/19/24 00:30	Daniel Erhagbai

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2433035
Project Number: 2232.0006Y005
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2433035-01)	77	76	72	81			0
MW-8D (L2433035-02)	70	69	77	85			0
MW-1SR (L2433035-03)	71	70	85	95			0
MW-1DR2 (L2433035-04)	71	71	65	72			0
MP-1 (L2433035-05)	68	67	77	87			0
MP-1D (L2433035-06)	61	61	73	82			0
PZ-6 (L2433035-07)	75	75	94	104			0
MW-6D (L2433035-08)	73	72	87	98			0
EB_06122024 (L2433035-09)	71	72	74	80			0
DUP_06122024 (L2433035-10)	71	72	85	92			0
WG1934990-1BLANK	68	65	74	66			0
WG1934990-2LCS	73	69	75	71			0
WG1934990-3LCSD	64	61	70	66			0
MW-1SRMS	66	64	77	84			0
MW-1SRMSD	71	69	83	91			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1934990-2 Analysis Date : 06/17/24 09:20	**File ID**	: 15240617a-15
LCSD Sample ID	: WG1934990-3 Analysis Date : 06/17/24 09:31	**File ID**	: 15240617a-16

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.280	78	0.357	0.253	71	10	30-150	20
Lindane	0.357	0.303	85	0.357	0.268	75	12	30-150	20
Alpha-BHC	0.357	0.311	87	0.357	0.274	77	13	30-150	20
Beta-BHC	0.357	0.288	81	0.357	0.255	71	12	30-150	20
Heptachlor	0.357	0.292	82	0.357	0.259	73	12	30-150	20
Aldrin	0.357	0.286	80	0.357	0.252	71	13	30-150	20
Heptachlor epoxide	0.357	0.289	81	0.357	0.254	71	13	30-150	20
Endrin	0.357	0.292	82	0.357	0.258	72	12	30-150	20
Endrin aldehyde	0.357	0.232	65	0.357	0.221	62	5	30-150	20
Endrin ketone	0.357	0.284	80	0.357	0.257	72	10	30-150	20
Dieldrin	0.357	0.309	87	0.357	0.274	77	12	30-150	20
4,4'-DDE	0.357	0.269	75	0.357	0.240	67	11	30-150	20
4,4'-DDD	0.357	0.296	83	0.357	0.260	73	13	30-150	20
4,4'-DDT	0.357	0.298	83	0.357	0.266	75	11	30-150	20
Endosulfan I	0.357	0.280	78	0.357	0.250	70	11	30-150	20
Endosulfan II	0.357	0.284	80	0.357	0.257	72	10	30-150	20
Endosulfan sulfate	0.357	0.258	72	0.357	0.235	66	9	30-150	20
Methoxychlor	0.357	0.336	94	0.357	0.299	84	12	30-150	20
cis-Chlordane	0.357	0.271	76	0.357	0.240	67	12	30-150	20
trans-Chlordane	0.357	0.312	87	0.357	0.276	77	12	30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 14:25
Matrix Spike	: WG1934990-4	**MS Analysis Date**	: 06/18/24 14:36
Matrix Spike Dup	: WG1934990-5	**MSD Analysis Date**	: 06/18/24 14:48

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.258	72	0.357	0.277	78	7	30-150	30
Lindane	ND	0.357	0.259	72	0.357	0.276	77	6	30-150	30
Alpha-BHC	ND	0.357	0.271	76	0.357	0.288	81	6	30-150	30
Beta-BHC	ND	0.357	0.298	83	0.357	0.318	89	6	30-150	30
Heptachlor	ND	0.357	0.263	74	0.357	0.278	78	6	30-150	30
Aldrin	ND	0.357	0.270	76	0.357	0.285	80	5	30-150	30
Heptachlor epoxide	ND	0.357	0.269	75	0.357	0.286	80	6	30-150	30
Endrin	ND	0.357	0.270	76	0.357	0.289	81	7	30-150	30
Endrin aldehyde	ND	0.357	0.264	74	0.357	0.284	80	7	30-150	30
Endrin ketone	ND	0.357	0.288	81	0.357	0.307	86	6	30-150	30
Dieldrin	ND	0.357	0.296	83	0.357	0.315	88	6	30-150	30
4,4'-DDE	ND	0.357	0.275	77	0.357	0.291	82	6	30-150	30
4,4'-DDD	ND	0.357	0.289	81	0.357	0.303	85	5	30-150	30
4,4'-DDT	ND	0.357	0.283	79	0.357	0.301	84	6	30-150	30
Endosulfan I	ND	0.357	0.267	75	0.357	0.277	78	4	30-150	30
Endosulfan II	ND	0.357	0.284	80	0.357	0.305	85	7	30-150	30
Endosulfan sulfate	ND	0.357	0.284	80	0.357	0.304	85	7	30-150	30
Methoxychlor	ND	0.357	0.341	96	0.357	0.366	102	7	30-150	30
cis-Chlordane	ND	0.357	0.254	71	0.357	0.270	76	6	30-150	30
trans-Chlordane	ND	0.357	0.297	83	0.357	0.315	88	6	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1934990-1	**Lab File ID**	: 15240617a-14
Matrix	: WATER	**Extraction Date**	: 06/16/24
Analysis Date (1)	: 06/17/24 09:09	**Analysis Date (2)**	: 06/17/24 09:09
Instrument ID (1)	: PEST15	**Instrument ID (2)**	: PEST15

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1934990-2LCS	WG1934990-2	06/17/24 09:20	06/17/24 09:20
WG1934990-3LCSD	WG1934990-3	06/17/24 09:31	06/17/24 09:31
MW-8S	L2433035-01	06/18/24 14:02	06/18/24 14:02
MW-8D	L2433035-02	06/18/24 14:13	06/18/24 14:13
MW-1SR	L2433035-03	06/18/24 14:25	06/18/24 14:25
MW-1SRMS	WG1934990-4	06/18/24 14:36	06/18/24 14:36
MW-1SRMSD	WG1934990-5	06/18/24 14:48	06/18/24 14:48
MW-1DR2	L2433035-04	06/18/24 14:59	06/18/24 14:59
MP-1	L2433035-05	06/18/24 15:11	06/18/24 15:11
MP-1D	L2433035-06	06/18/24 15:22	06/18/24 15:22
PZ-6	L2433035-07	06/18/24 15:33	06/18/24 15:33
MW-6D	L2433035-08	06/18/24 15:45	06/18/24 15:45
EB_06122024	L2433035-09	06/18/24 15:56	06/18/24 15:56
DUP_06122024	L2433035-10	06/18/24 16:08	06/18/24 16:08

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST15	**Initial Calib. Date(s)**	: 06/12/24 06/13/24

Client ID	Lab ID	Date/Time Analyzed
R1840577-1 PEM	R1840577-1	06/12/24 19:29
Pesticides L1 (0.5ug/L)	R1840577-2	06/12/24 19:40
Pesticides L2 (1.0ug/L)	R1840577-3	06/12/24 19:51
Pesticides L3 (2.0ug/L)	R1840577-4	06/12/24 20:03
Pesticides L4 (3.0ug/L)	R1840577-5	06/12/24 20:19
Pesticides L5 (4.0ug/L)	R1840577-6	06/12/24 20:30
Pesticides L7 (10.0ug/L)	R1840577-8	06/12/24 20:42
Pesticides L8 (50.0ug/L)	R1840577-7	06/12/24 20:53
Pesticides L9 (100ug/L)	R1840577-9	06/12/24 21:04
Pesticides L10 (200ug/L)	R1840577-10	06/12/24 21:15
Pesticides L11 (400ug/L)	R1840577-11	06/12/24 21:26
R1840577-12 ICV	R1840577-12	06/12/24 21:38
Chlordane L3 (10ug/L)	R1840577-13	06/12/24 21:49
Chlordane L4 (20ug/L)	R1840577-14	06/12/24 22:00
Chlordane L5 (100ug/L)	R1840577-15	06/12/24 22:11
Chlordane L7 (500ug/L)	R1840577-16	06/12/24 22:22
Chlordane L8 (1000ug/L)	R1840577-17	06/12/24 22:34
Chlordane L9 (2000ug/L)	R1840577-18	06/12/24 22:45
Chlordane L10 (5000ug/L)	R1840577-19	06/12/24 22:56
R1840577-20 ICV	R1840577-20	06/12/24 23:07
Toxaphene L3 (20.0ug/L)	R1840577-21	06/12/24 23:18
Toxaphene L4 (100ug/L)	R1840577-22	06/12/24 23:30
Toxaphene L7 (1000ug/L)	R1840577-23	06/12/24 23:41
Toxaphene L8 (2000ug/L)	R1840577-25	06/12/24 23:52
Toxaphene L9 (5000ug/L)	R1840577-24	06/13/24 00:03
R1840577-26 ICV	R1840577-26	06/13/24 00:14
R1841990-1 PEM	R1841990-1	06/17/24 06:29
WG1935124-2 CCAL	WG1935124-2	06/17/24 06:51
WG1935124-3 CCAL	WG1935124-3	06/17/24 07:02
WG1935124-1 CCAL	WG1935124-1	06/17/24 07:13
WG1934990-1 BLANK	WG1934990-1	06/17/24 09:09
WG1934990-2 LCS	WG1934990-2	06/17/24 09:20
WG1934990-3 LCSD	WG1934990-3	06/17/24 09:31

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Initial Calib. Date(s)**	: 02/22/24 03/01/24

Client ID	Lab ID	Date/Time Analyzed
R1801933-1 PEM	R1801933-1	02/22/24 12:57
Pesticides L1 (0.5ug/L)	R1801933-2	02/22/24 13:08
Pesticides L2 (1.0ug/L)	R1801933-3	02/22/24 13:20
Pesticides L3 (2.0ug/L)	R1801933-4	02/22/24 13:31
Pesticides L4 (3.0ug/L)	R1801933-5	02/22/24 13:43
Pesticides L5 (4.0ug/L)	R1801933-6	02/22/24 13:54
Pesticides L7 (10.0ug/L)	R1801933-7	02/22/24 14:06
Pesticides L8 (50.0ug/L)	R1801933-8	02/22/24 14:17
Pesticides L9 (100ug/L)	R1801933-9	02/22/24 14:28
Pesticides L10 (200ug/L)	R1801933-10	02/22/24 14:40
Pesticides L11 (400ug/L)	R1801933-11	02/22/24 14:51
R1801933-12 ICV	R1801933-12	02/22/24 15:03
R1801933-13 PEM	R1801933-13	02/29/24 16:17
Chlordane L3 (10ug/L)	R1801933-14	02/29/24 16:28
Chlordane L4 (20ug/L)	R1801933-15	02/29/24 16:40
Chlordane L5 (100ug/L)	R1801933-16	02/29/24 16:51
Chlordane L7 (500ug/L)	R1801933-17	02/29/24 17:03
Chlordane L8 (1000ug/L)	R1801933-18	02/29/24 17:14
Chlordane L9 (2000ug/L)	R1801933-19	02/29/24 17:25
Toxaphene L9 (5000ug/L)	R1801933-20	02/29/24 18:45
R1801933-21 PEM	R1801933-21	03/01/24 11:52
R1801933-22 ICV	R1801933-22	03/01/24 12:15
Toxaphene L3 (20.0ug/L)	R1801933-23	03/01/24 12:27
Toxaphene L4 (100ug/L)	R1801933-24	03/01/24 12:38
Toxaphene L7 (1000ug/L)	R1801933-25	03/01/24 12:50
Toxaphene L8 (2000ug/L)	R1801933-26	03/01/24 13:01
R1801933-27 ICV	R1801933-27	03/01/24 13:12
R1842774-1 PEM	R1842774-1	06/18/24 12:05
WG1935928-1 CCAL	WG1935928-1	06/18/24 12:17
WG1935928-2 CCAL	WG1935928-2	06/18/24 12:28
WG1935928-3 CCAL	WG1935928-3	06/18/24 12:40
MW-8S	L2433035-01	06/18/24 14:02
MW-8D	L2433035-02	06/18/24 14:13
MW-1SR	L2433035-03	06/18/24 14:25
MW-1SR MS	WG1934990-4	06/18/24 14:36
MW-1SR MSD	WG1934990-5	06/18/24 14:48
MW-1DR2	L2433035-04	06/18/24 14:59
MP-1	L2433035-05	06/18/24 15:11
MP-1D	L2433035-06	06/18/24 15:22
PZ-6	L2433035-07	06/18/24 15:33
MW-6D	L2433035-08	06/18/24 15:45
EB_06122024	L2433035-09	06/18/24 15:56

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Initial Calib. Date(s)**	: 02/22/24 03/01/24

Client ID	Lab ID	Date/Time Analyzed
DUP_06122024	L2433035-10	06/18/24 16:08

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container / Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

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Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:02
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-09	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:13
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-10	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:25
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-11	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:59
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-14	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:11
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-15	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:22
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-16	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:33
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-17	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:45
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-18	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:56
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-19	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:08
Sample Matrix	: WATER	**Date Extracted**	: 06/17/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18240618c-20	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934990-1	**Date Collected**	: NA
Client ID	: WG1934990-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 09:09
Sample Matrix	: WATER	**Date Extracted**	: 06/16/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15240617a-14	**Analyst**	: EJL
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:02
Operator : PEST18:mmg
Sample : L2433035-01,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:29 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.777	468.4E6	241.1E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 103.65%		
	Standard Area 1 : #2 = 223085596				Recovery = 108.09%		
28) i	1-br-2-nb_Ch	1.720	1.777	468.4E6	241.1E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.720	1.777	468.4E6	241.1E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.158	2.325	709.5E6	362.4E6	38.379M4	37.906M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 76.76%		75.81%
27) s	Decachlorobi	6.960	7.519	560.8E6	281.7E6	36.133M4	40.685M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 72.27%		81.37%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:02
Operator : PEST18:mmg
Sample : L2433035-01,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:29 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

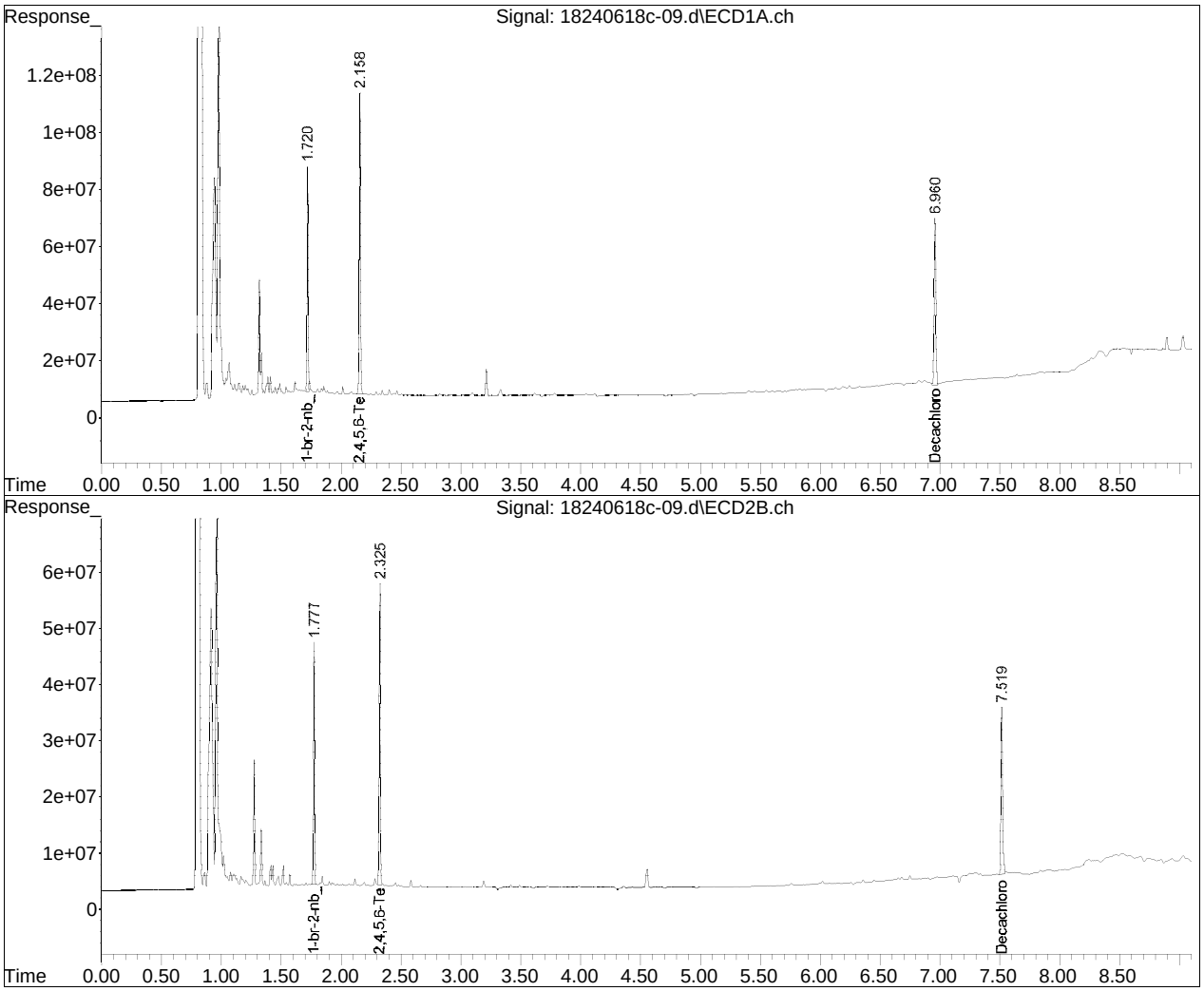
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:02
Operator : PEST18:mmg
Sample : L2433035-01,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:29 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

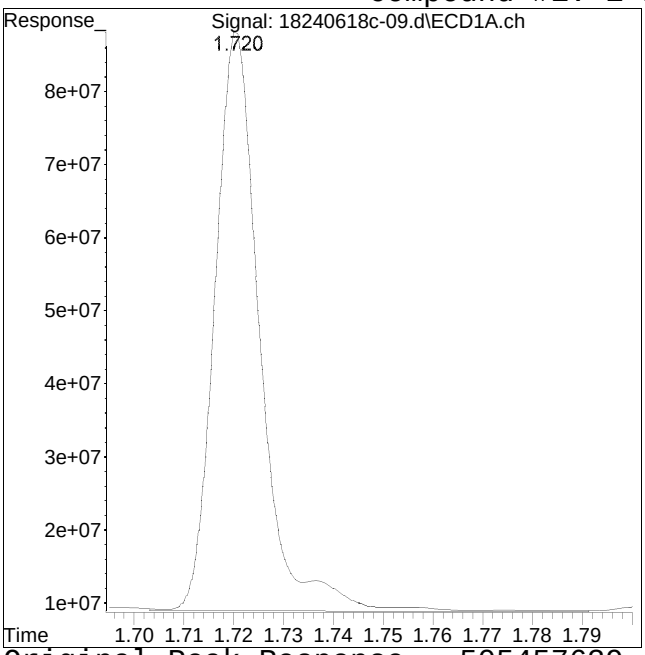
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

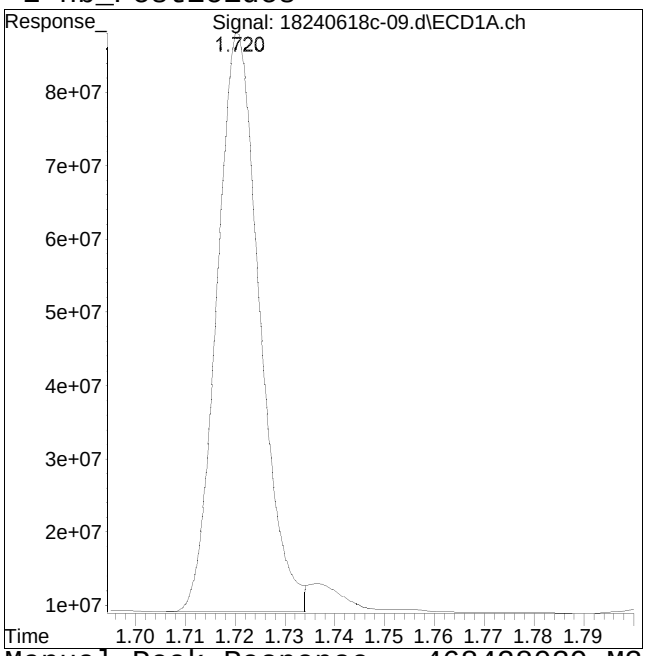


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #1: 1-br-2-nb_Pesticides



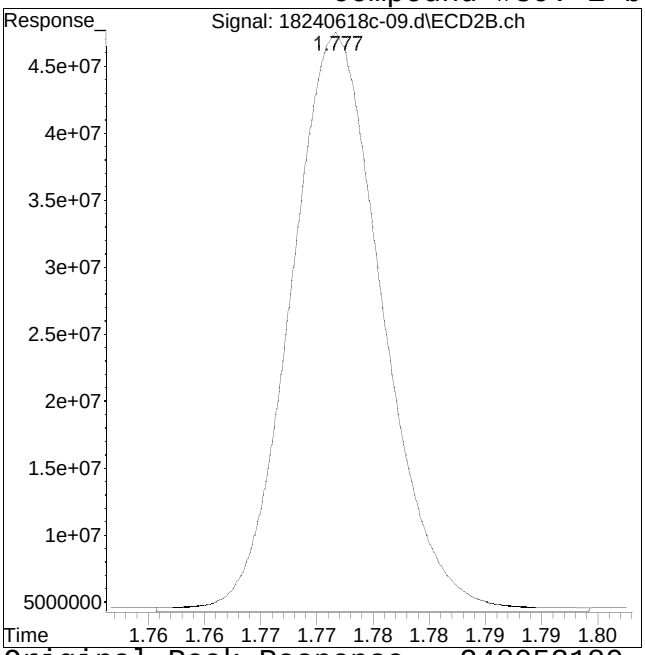


Original Peak Response = 505457639 Manual Peak Response = 468428039 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

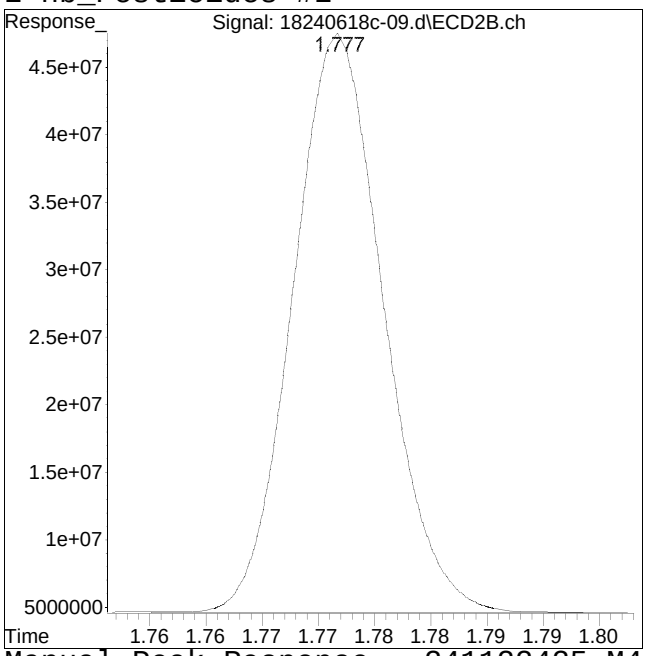
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 248053180



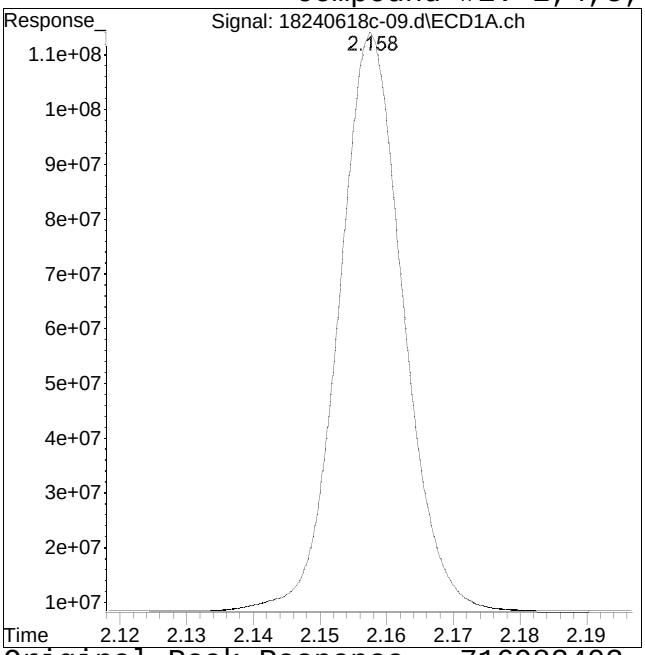
Manual Peak Response = 241122425 M4

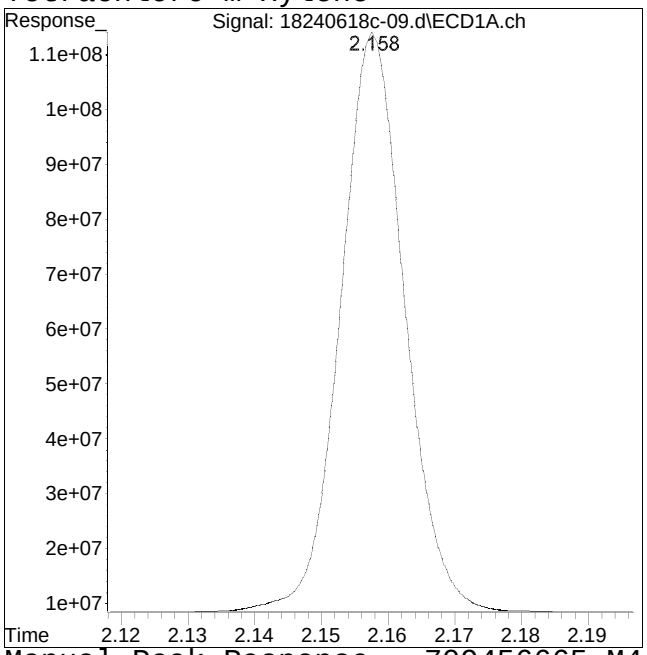
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



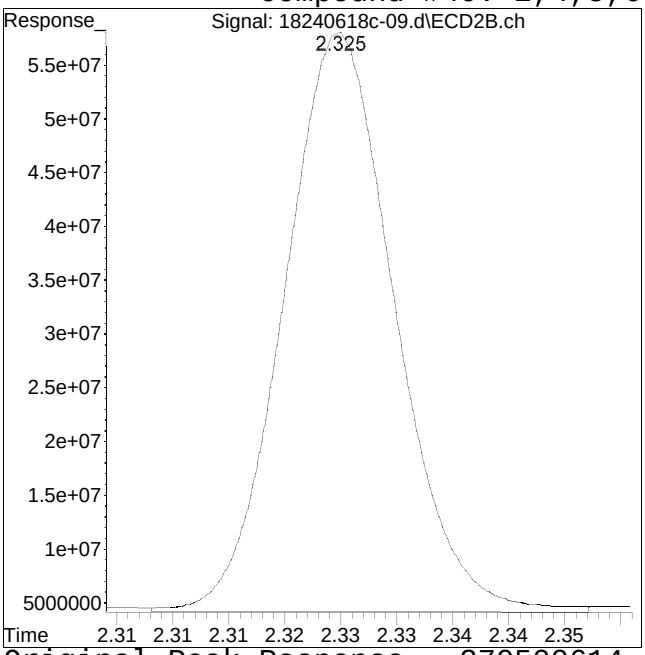


Original Peak Response = 716982403 Manual Peak Response = 709456665 M4
M4 = Poor automated baseline construction.

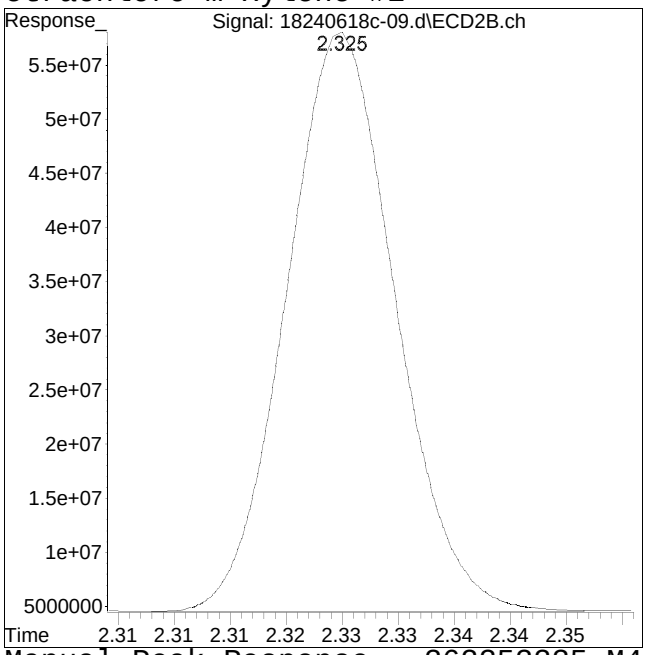
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 370500614



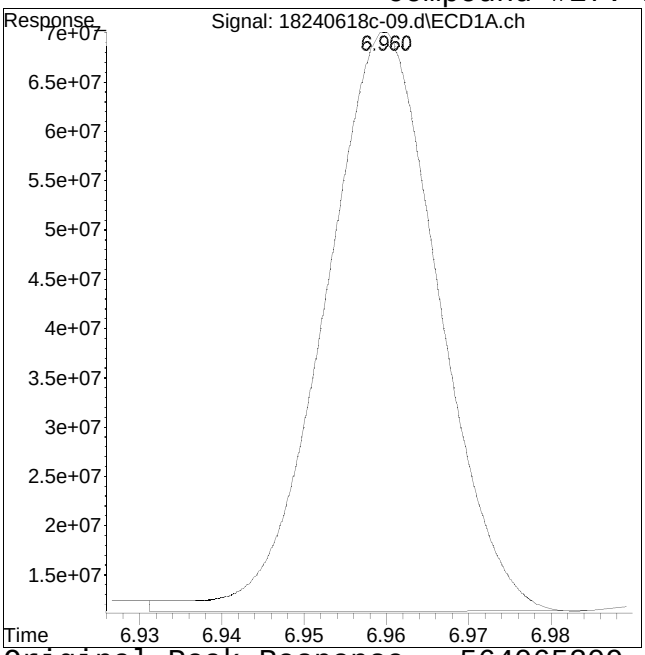
Manual Peak Response = 362353335 M4

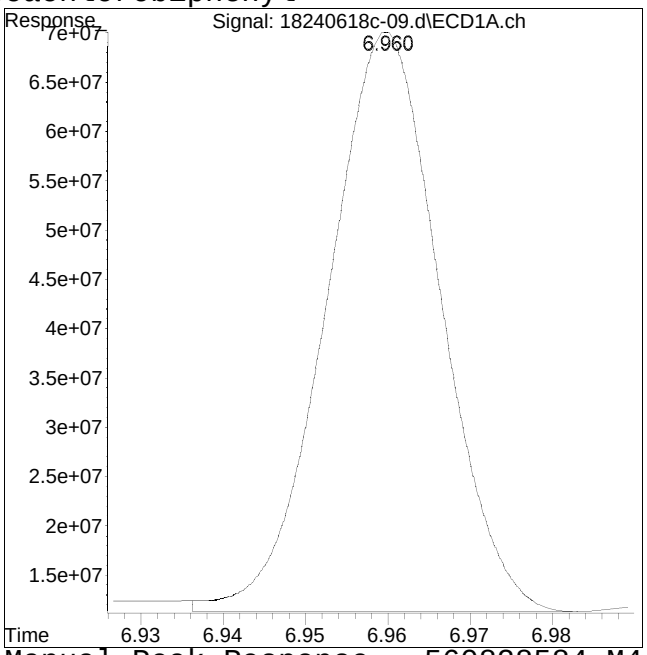
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #27: Decachlorobiphenyl



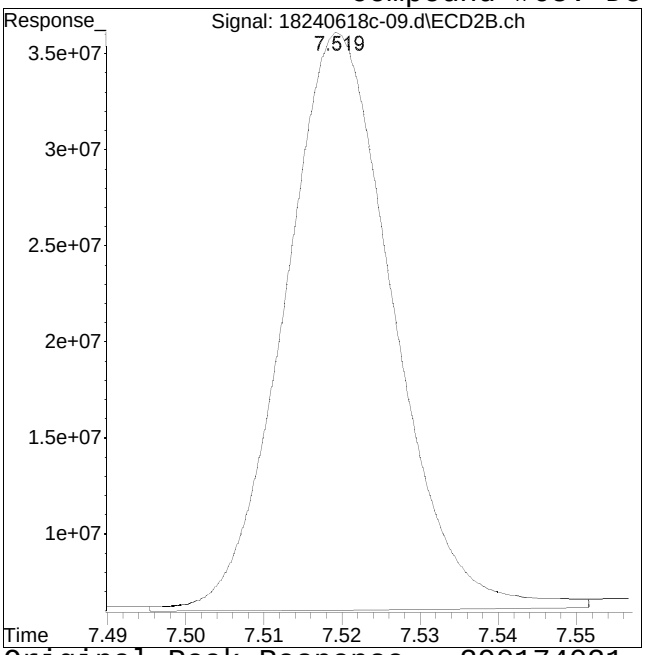


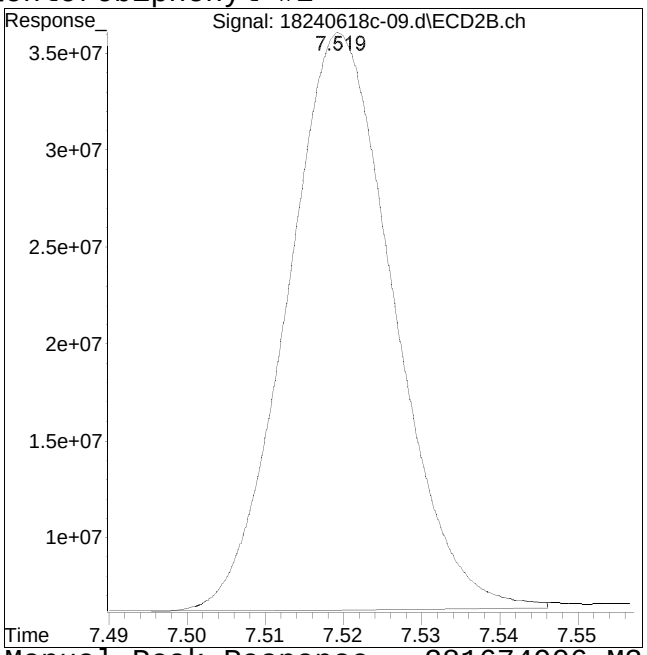
Original Peak Response = 564065309 Manual Peak Response = 560828584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #65: Decachlorobiphenyl #2



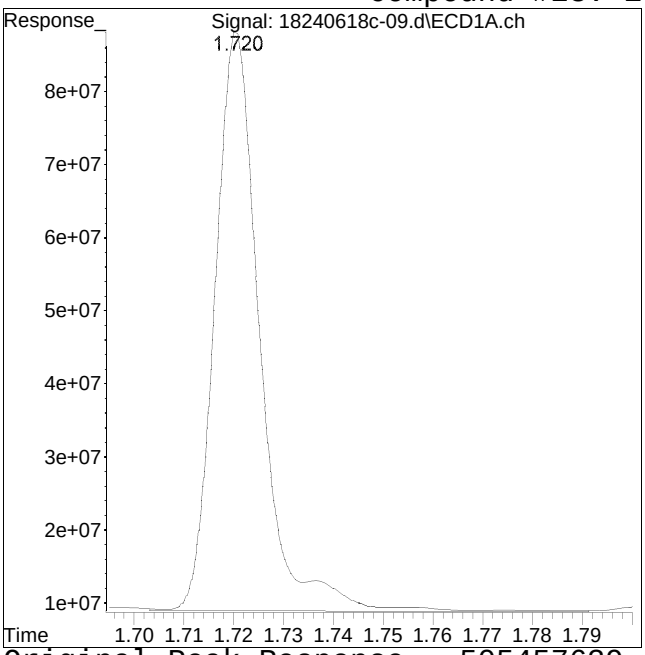


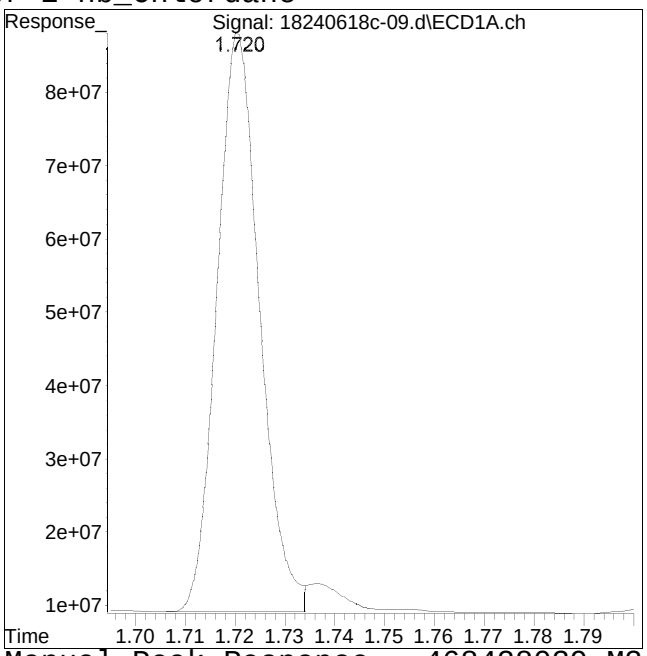
Original Peak Response = 290174021 Manual Peak Response = 281674906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #28: 1-br-2-nb_Chlordane



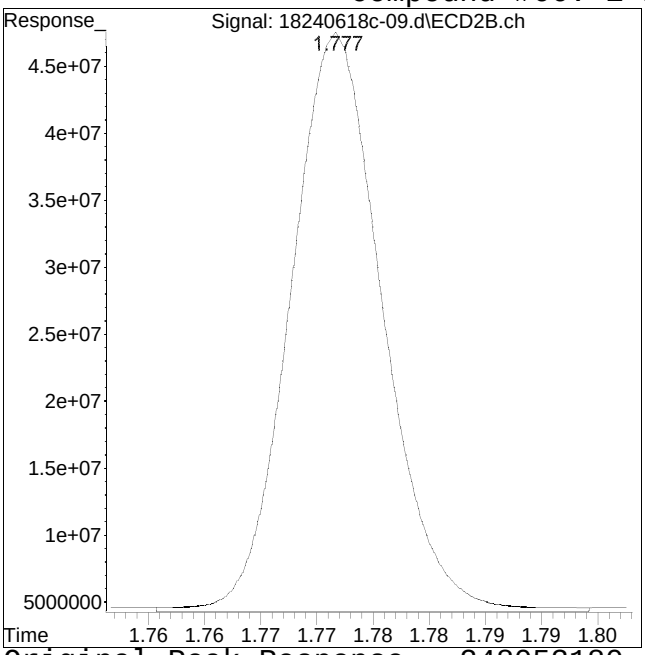


Original Peak Response = 505457639 Manual Peak Response = 468428039 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

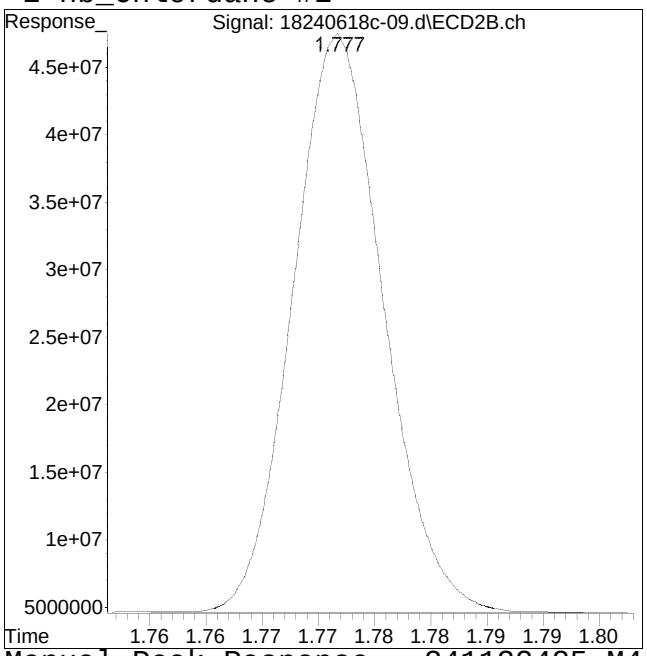
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 248053180



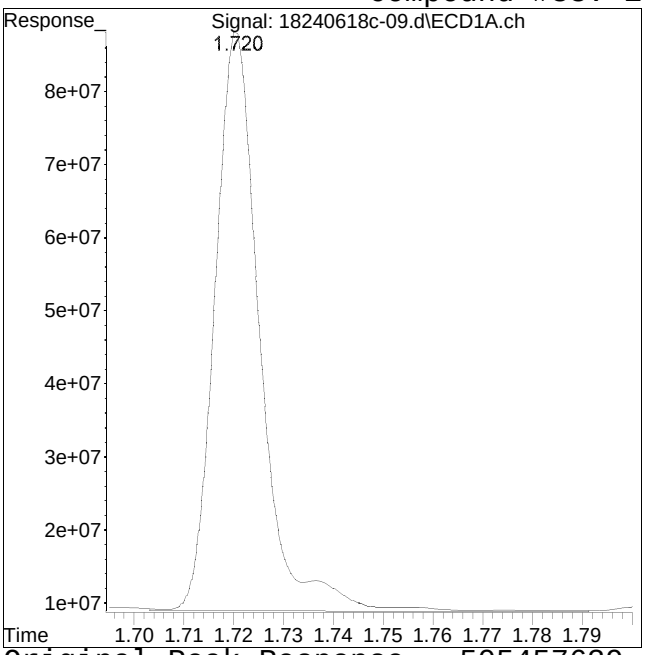
Manual Peak Response = 241122425 M4

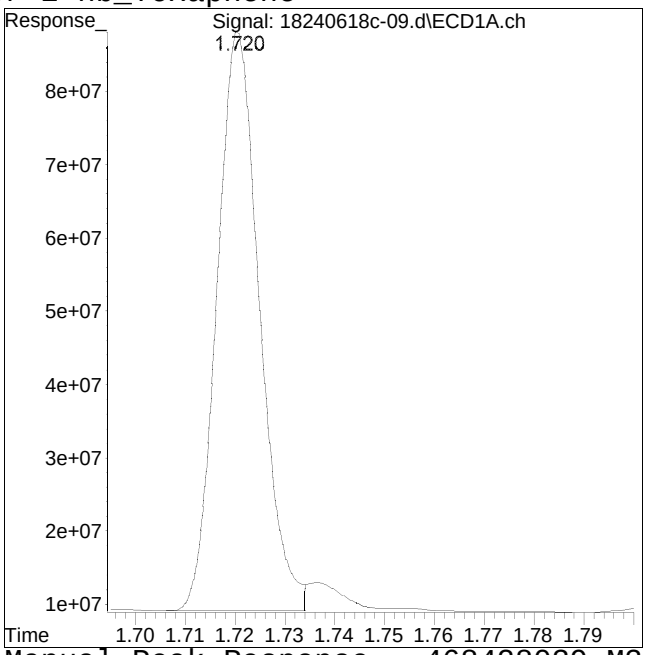
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #33: 1-br-2-nb_Toxaphene



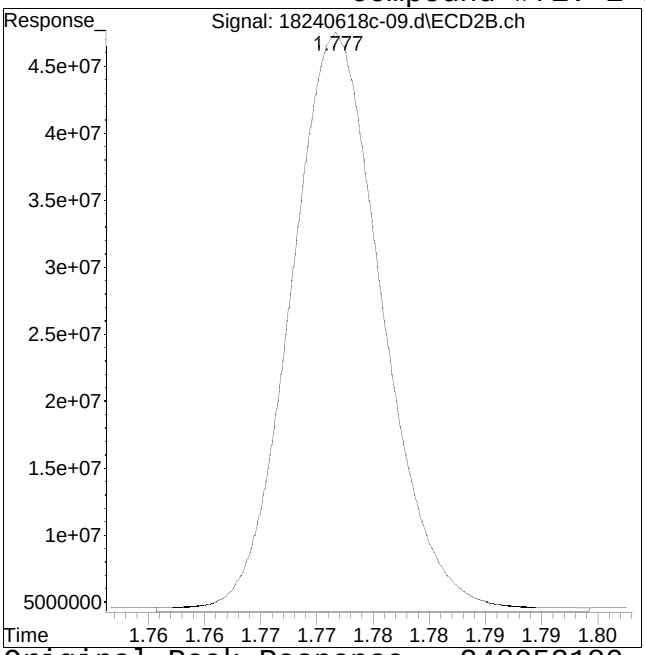


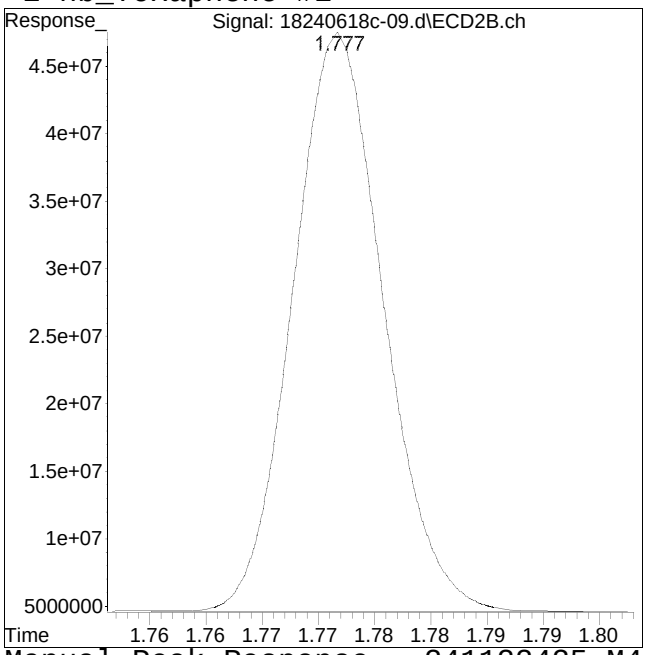
Original Peak Response = 505457639 Manual Peak Response = 468428039 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-09.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:02 Instrument : Pest 18
Sample : L2433035-01,42,, Quant Date : 6/18/2024 3:33 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 248053180 Manual Peak Response = 241122425 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:13
Operator : PEST18:mmg
Sample : L2433035-02,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:32 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	474.7E6	240.9E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 105.03%		
	Standard Area 1 : #2 = 223085596				Recovery = 107.98%		
28) i	1-br-2-nb_Ch	1.720	1.776	474.7E6	240.9E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.720	1.776	474.7E6	240.9E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.325	654.3E6	331.4E6	34.931M3	34.698M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 69.86%		69.40%
27) s	Decachlorobi	6.960	7.519	604.0E6	292.5E6	38.484M4	42.346M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 76.97%		84.69%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:13
Operator : PEST18:mmg
Sample : L2433035-02,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:32 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

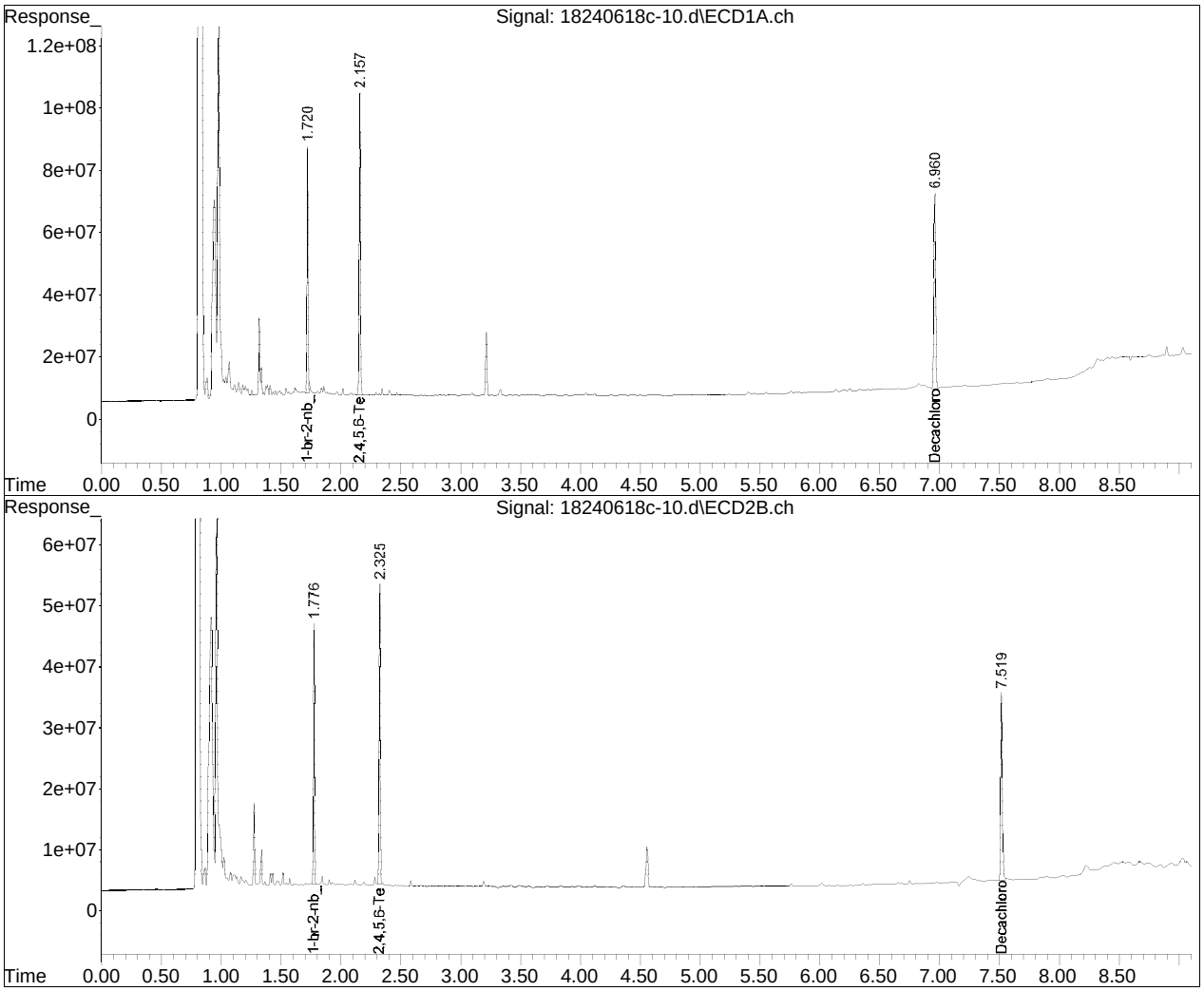
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:13
Operator : PEST18:mmg
Sample : L2433035-02,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:32 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

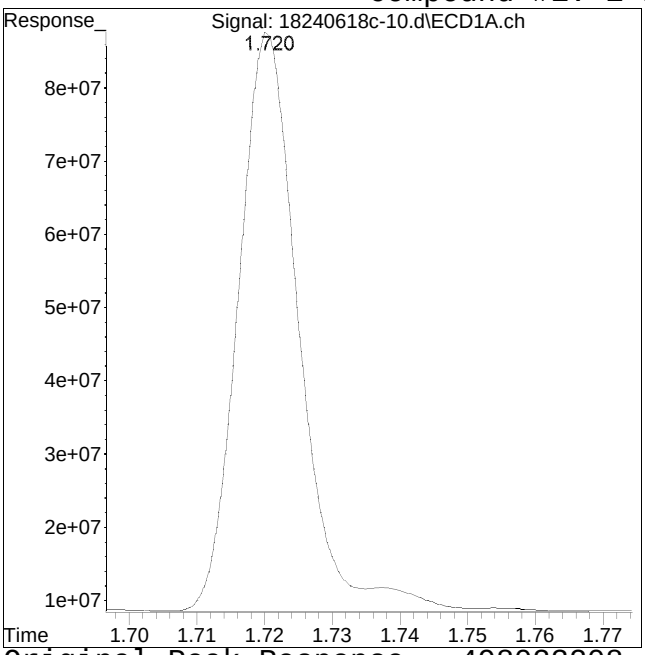
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

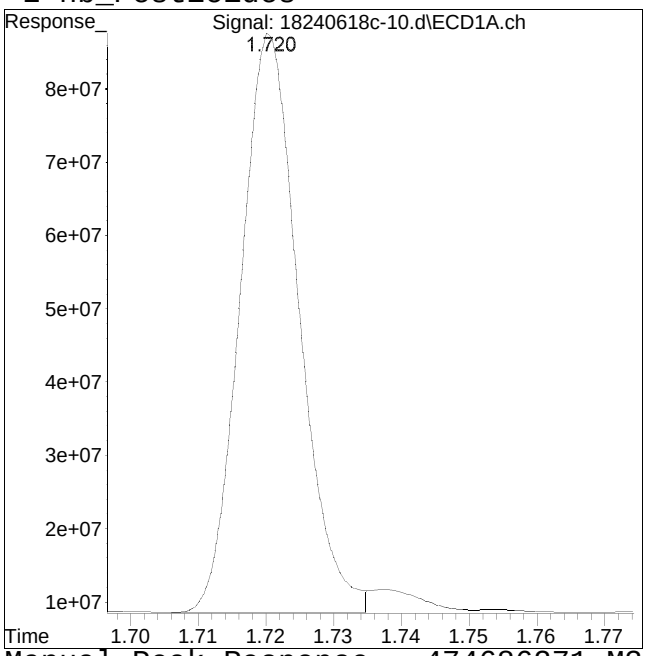


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #1: 1-br-2-nb_Pesticides



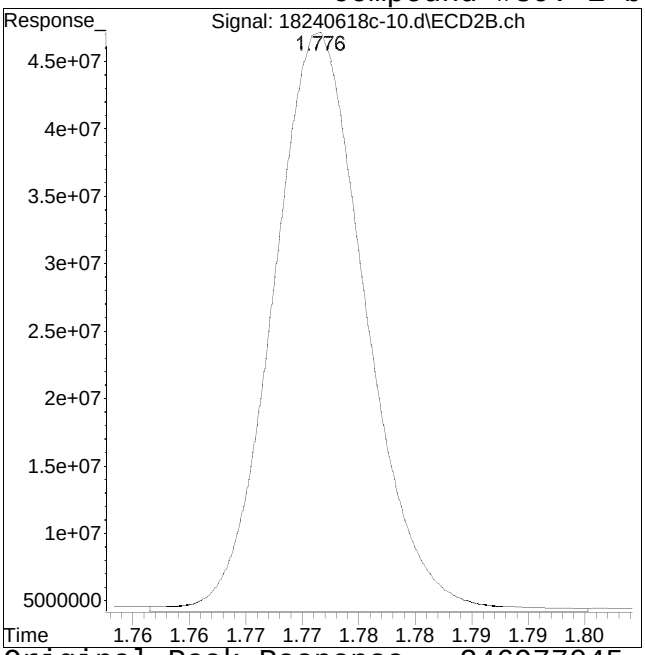


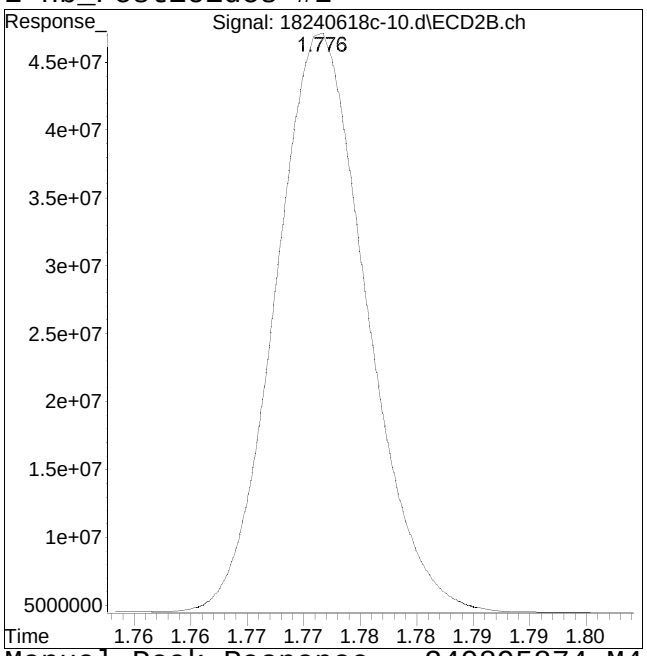
Original Peak Response = 498023208 Manual Peak Response = 474686271 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #39: 1-br-2-nb_Pesticides #2



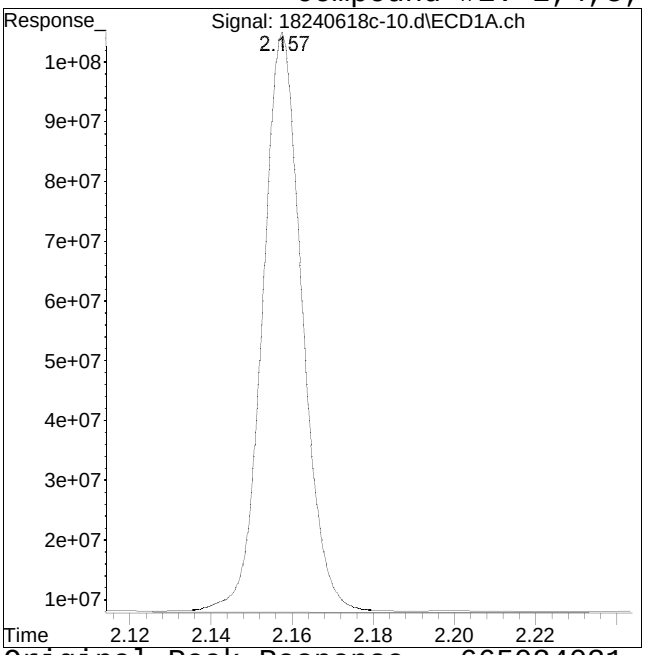


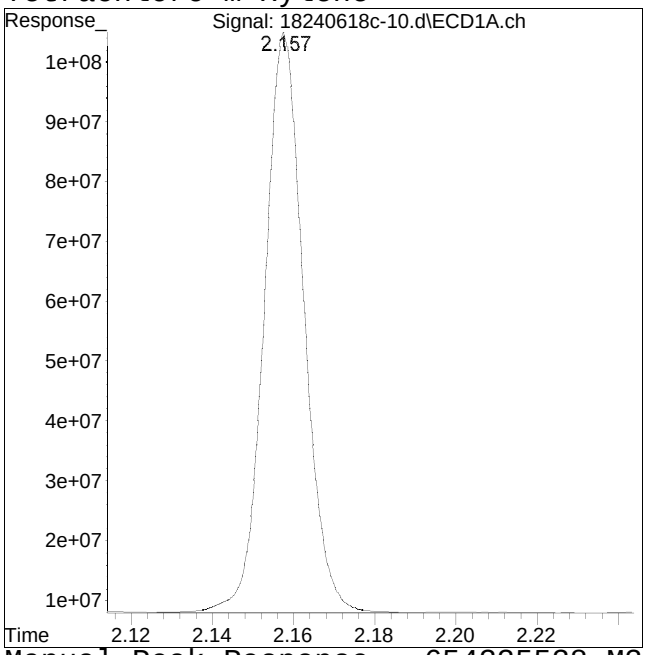
Original Peak Response = 246977045 Manual Peak Response = 240895874 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



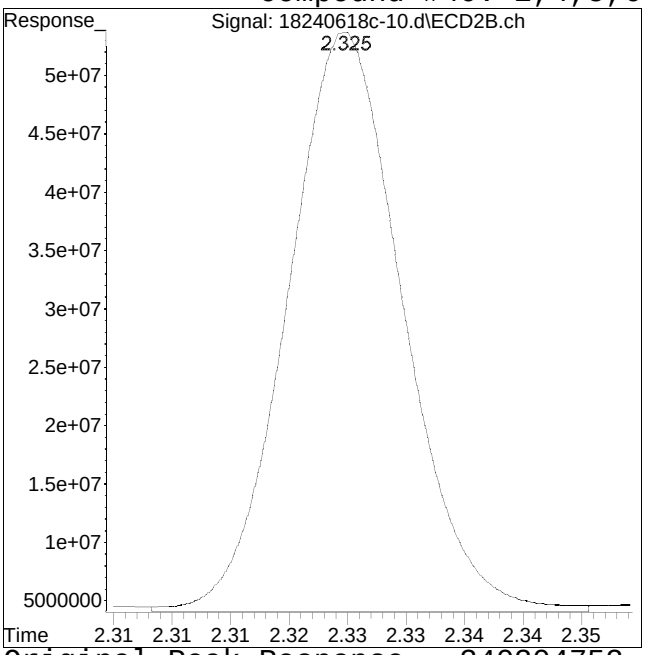


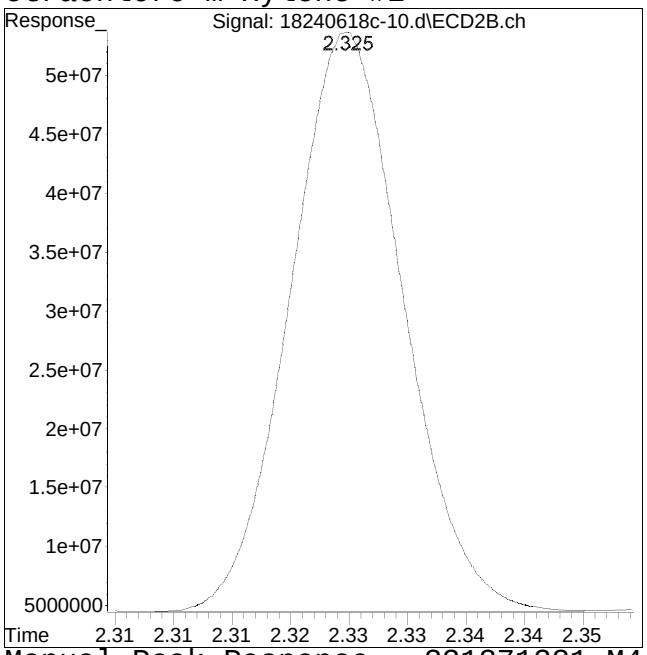
Original Peak Response = 665024031 Manual Peak Response = 654335538 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



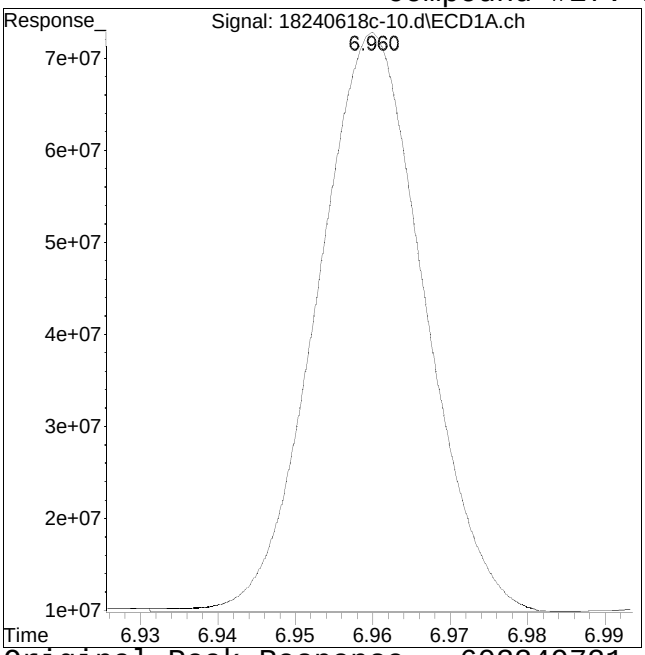


Original Peak Response = 340304752 Manual Peak Response = 331371331 M4
M4 = Poor automated baseline construction.

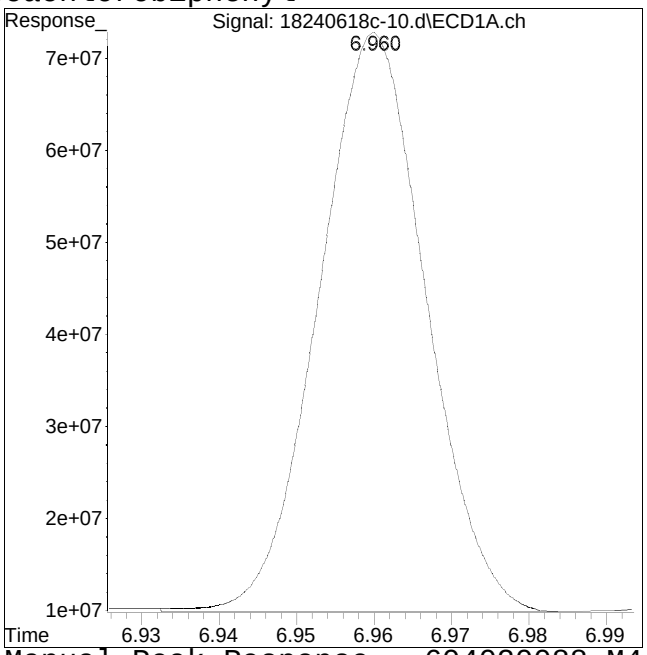
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 603349721



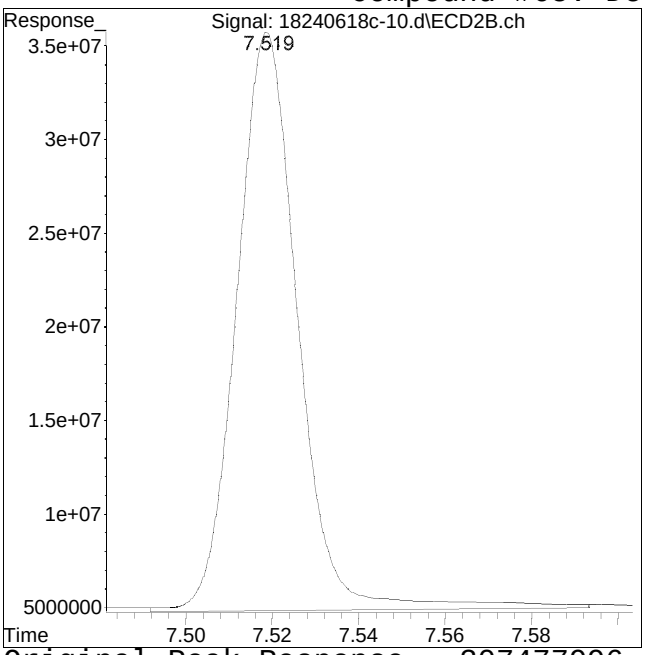
Manual Peak Response = 604020088 M4

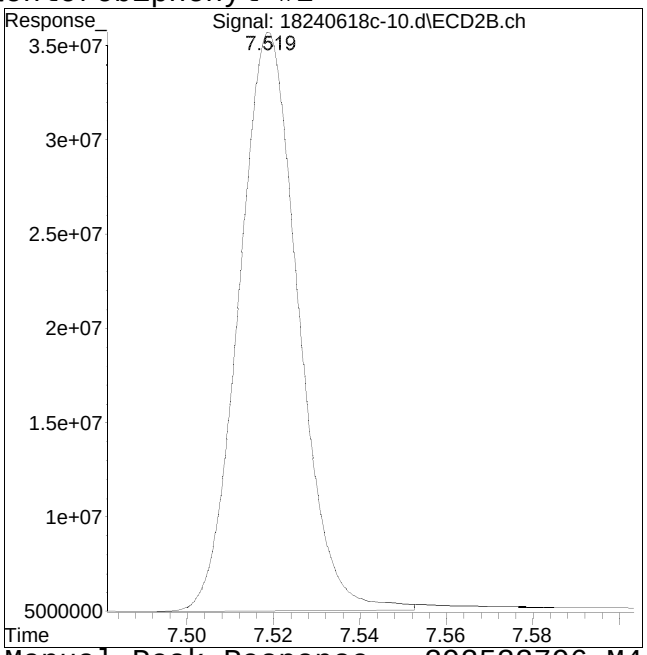
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #65: Decachlorobiphenyl #2



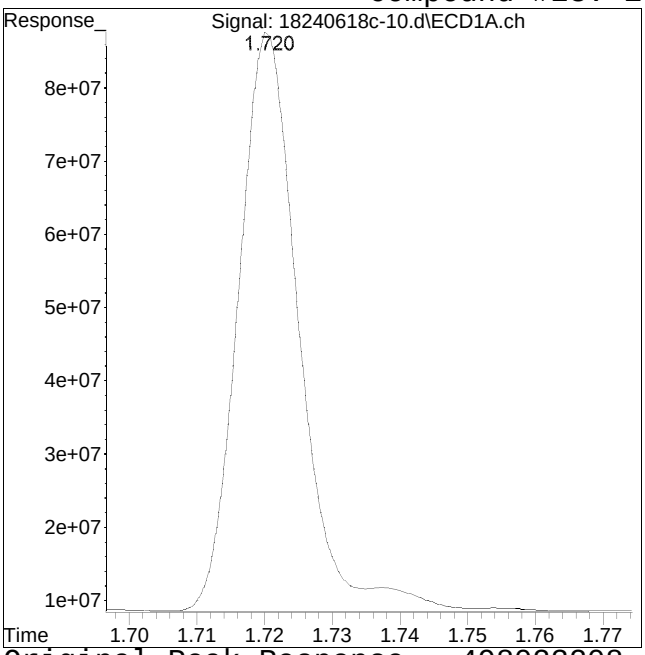


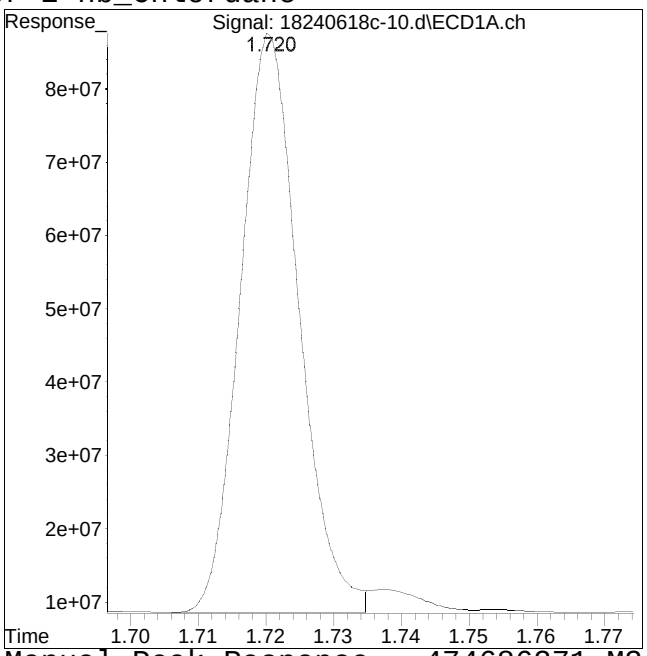
Original Peak Response = 307477996 Manual Peak Response = 292533796 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #28: 1-br-2-nb_Chlordane



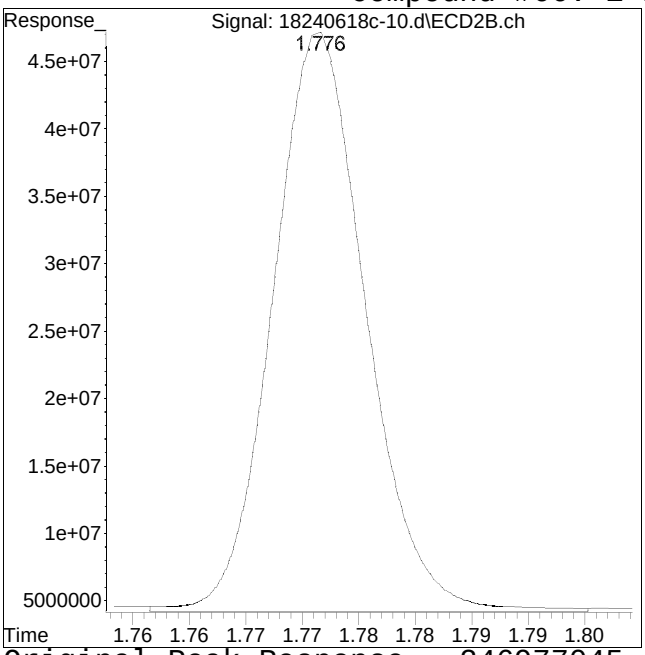


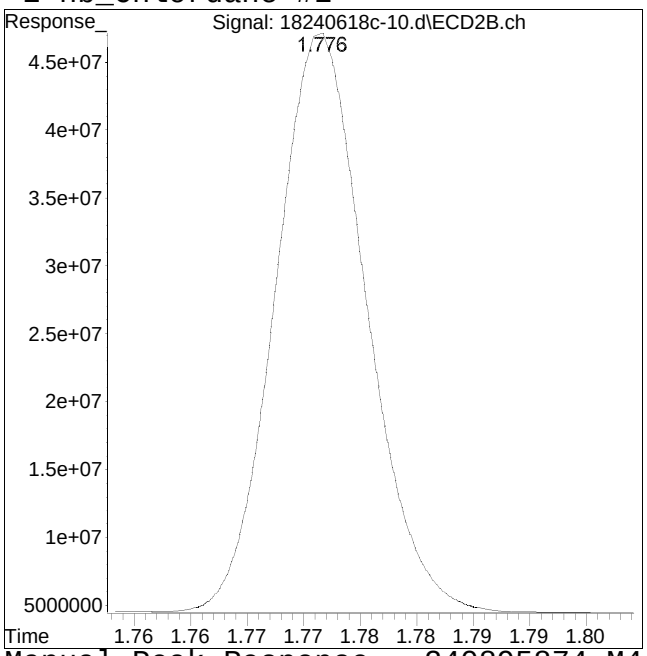
Original Peak Response = 498023208 Manual Peak Response = 474686271 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #66: 1-br-2-nb_Chlordane #2



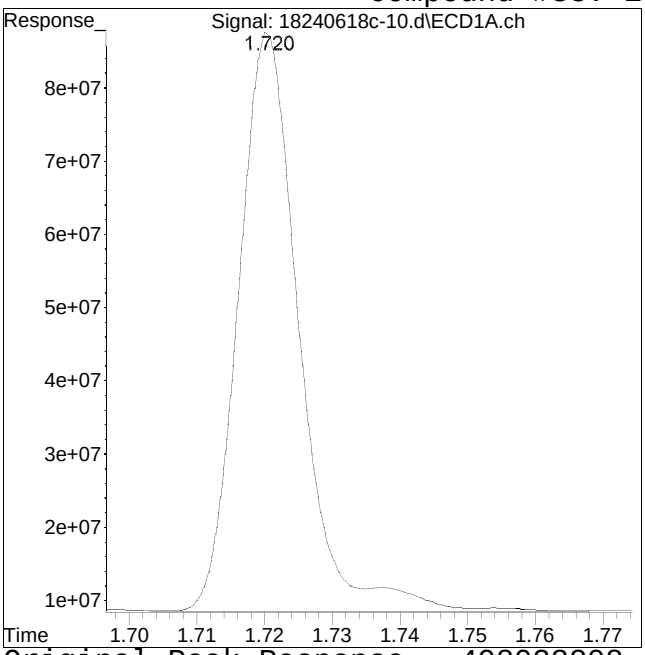


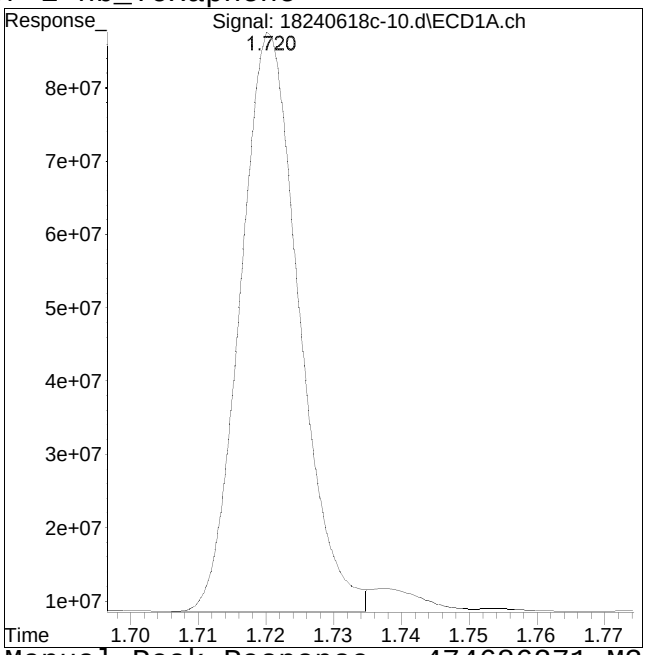
Original Peak Response = 246977045 Manual Peak Response = 240895874 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #33: 1-br-2-nb_Toxaphene



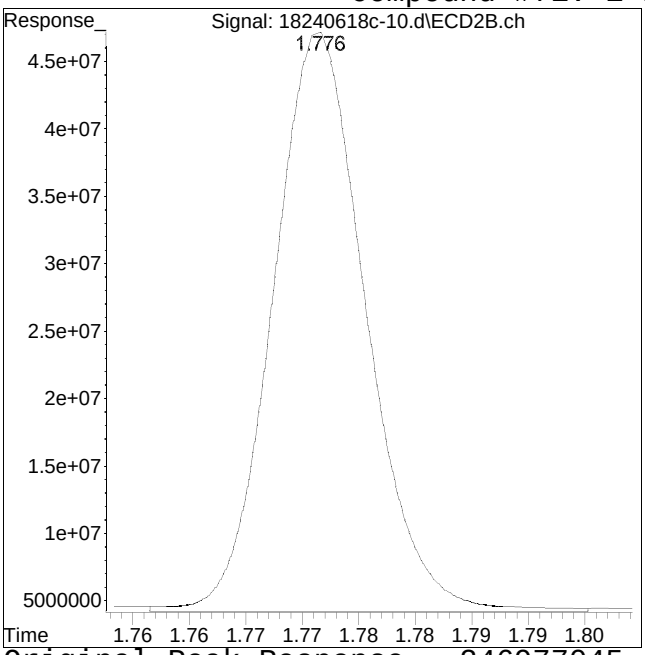


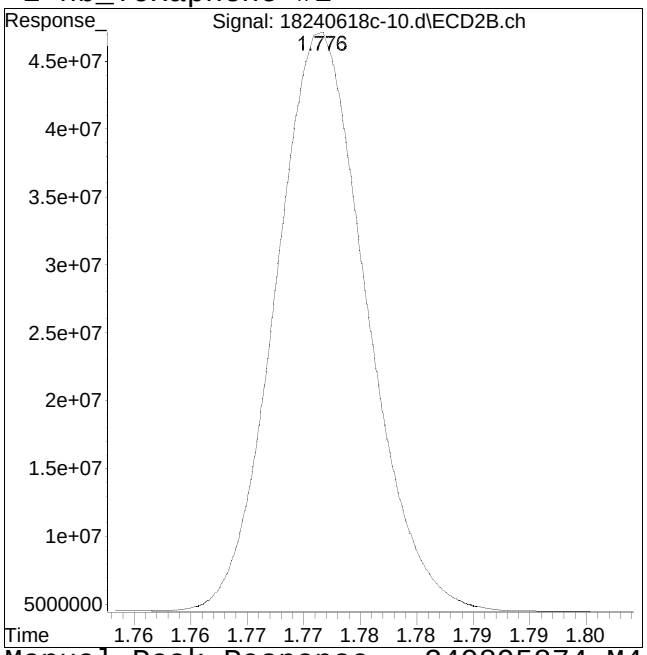
Original Peak Response = 498023208 Manual Peak Response = 474686271 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-10.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:13 Instrument : Pest 18
Sample : L2433035-02,42,, Quant Date : 6/18/2024 3:33 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 246977045 Manual Peak Response = 240895874 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:25
Operator : PEST18:mmg
Sample : L2433035-03,42,, p
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:34 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.721	1.777	489.0E6	248.8E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 108.19%		
	Standard Area 1 : #2 = 223085596				Recovery = 111.52%		
28) i	1-br-2-nb_Ch	1.721	1.777	489.0E6	248.8E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.721	1.777	489.0E6	248.8E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.158	2.325	681.4E6	344.2E6	35.316M4	34.894M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 70.63%		69.79%
27) s	Decachlorobi	6.958	7.516	684.4E6	336.1E6	42.461M4	47.254M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 84.92%		94.51%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:25
Operator : PEST18:mmg
Sample : L2433035-03,42,, p
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:34 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

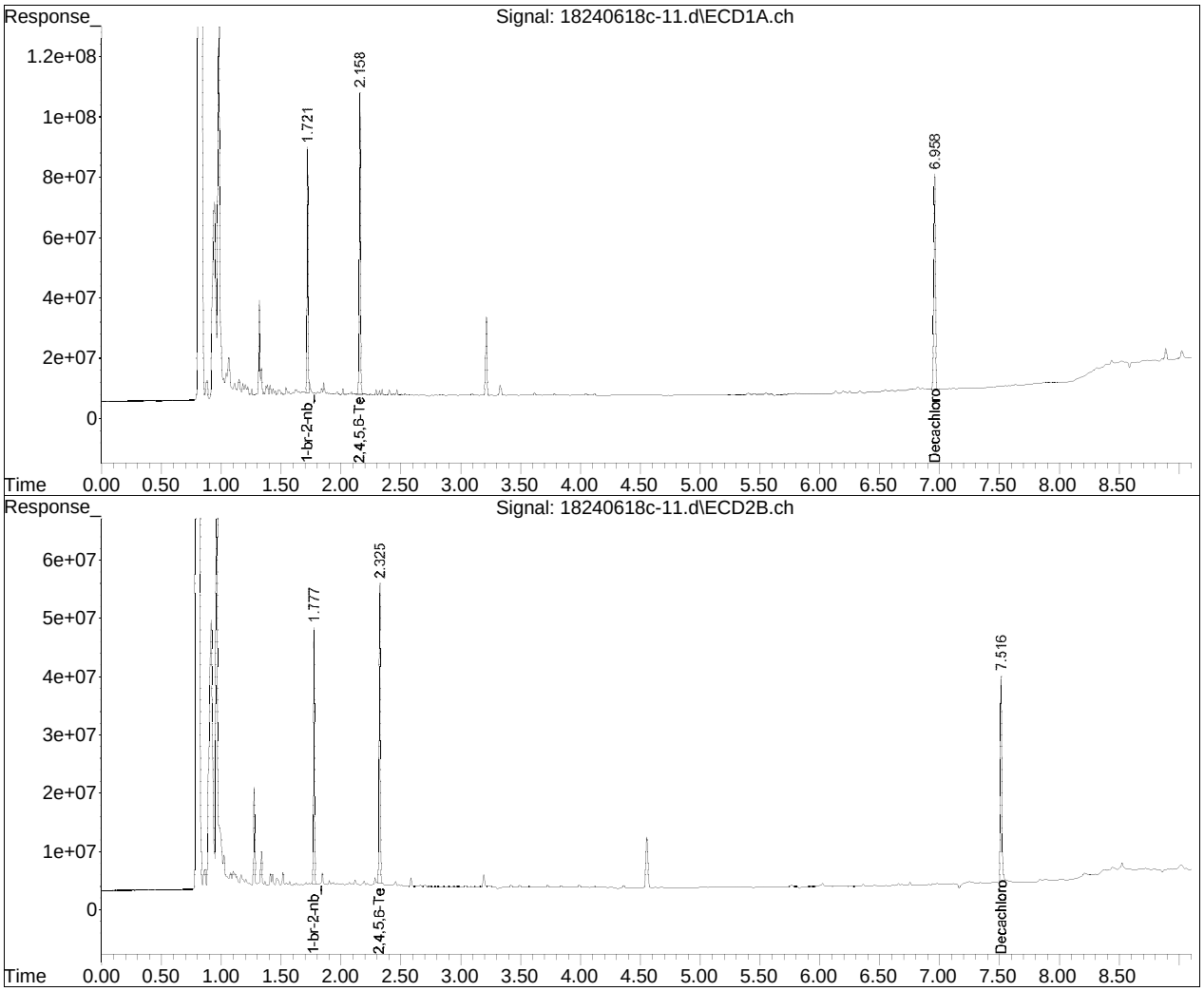
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:25
Operator : PEST18:mmg
Sample : L2433035-03,42,, p
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:34 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

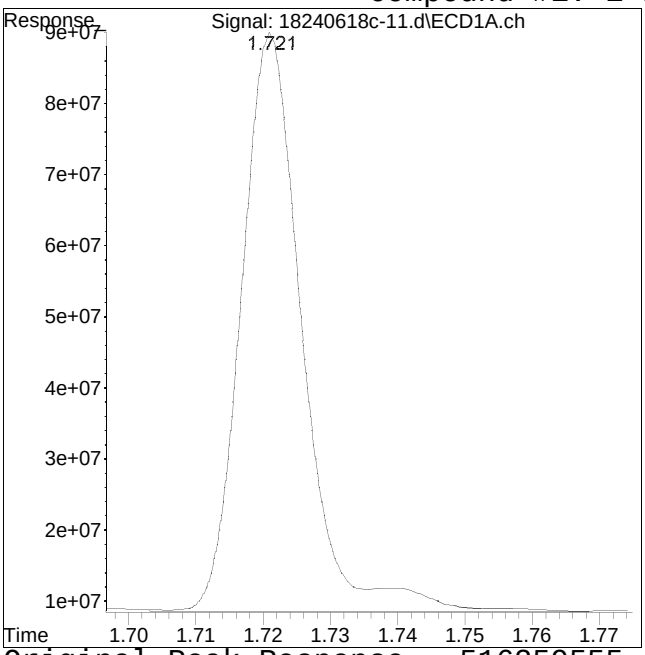
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

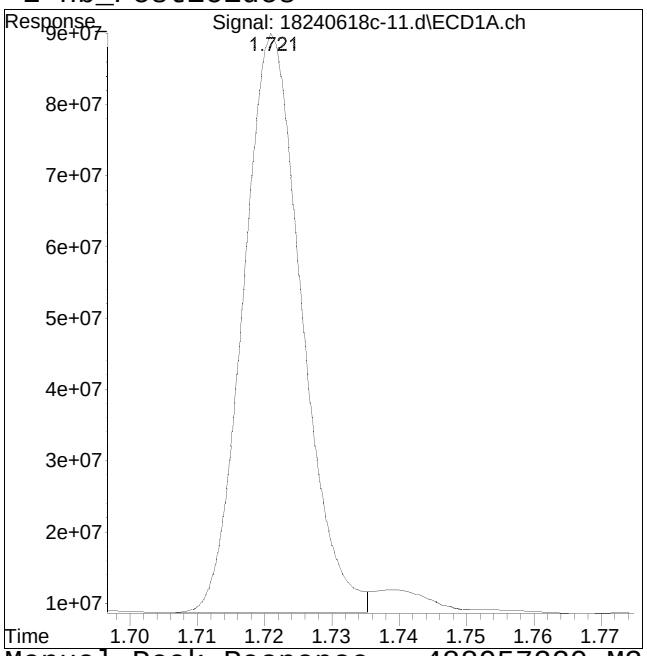


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #1: 1-br-2-nb_Pesticides



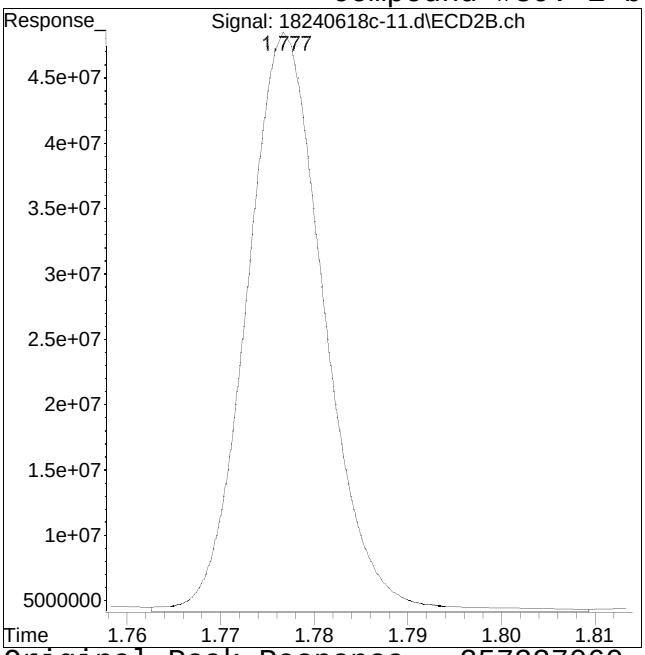


Original Peak Response = 516259555 Manual Peak Response = 488957220 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

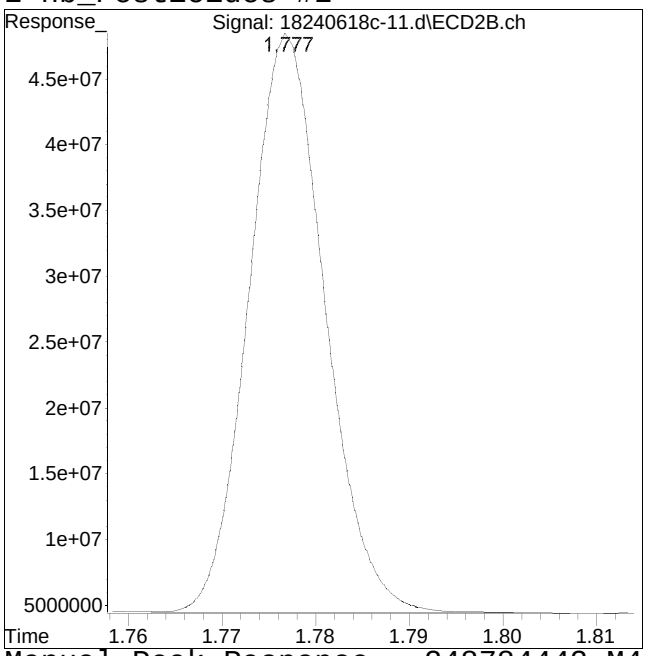
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 257337060



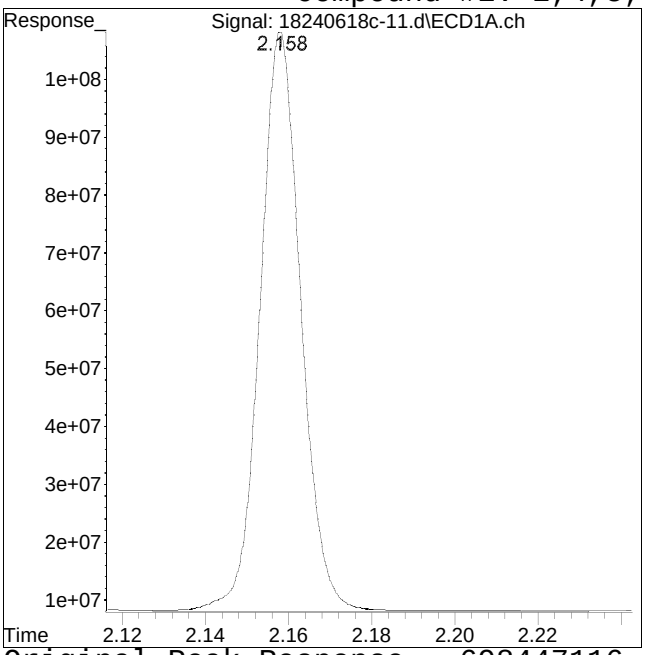
Manual Peak Response = 248784442 M4

M4 = Poor automated baseline construction.

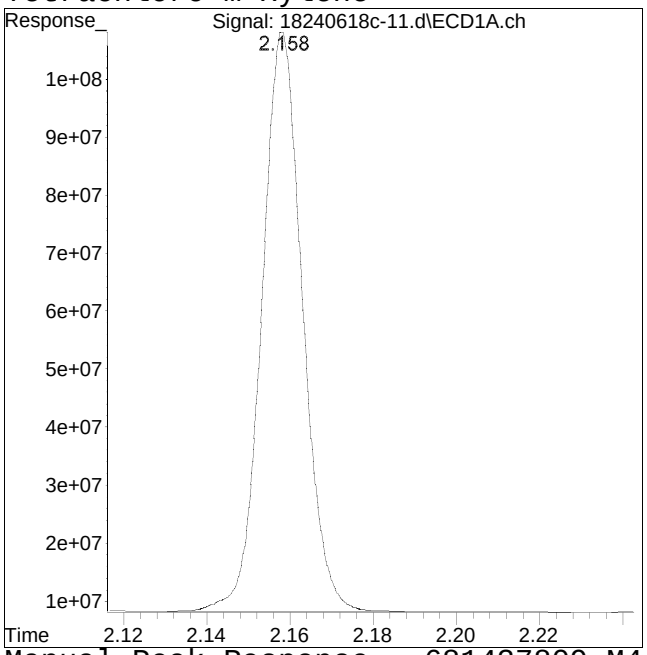
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 698447116



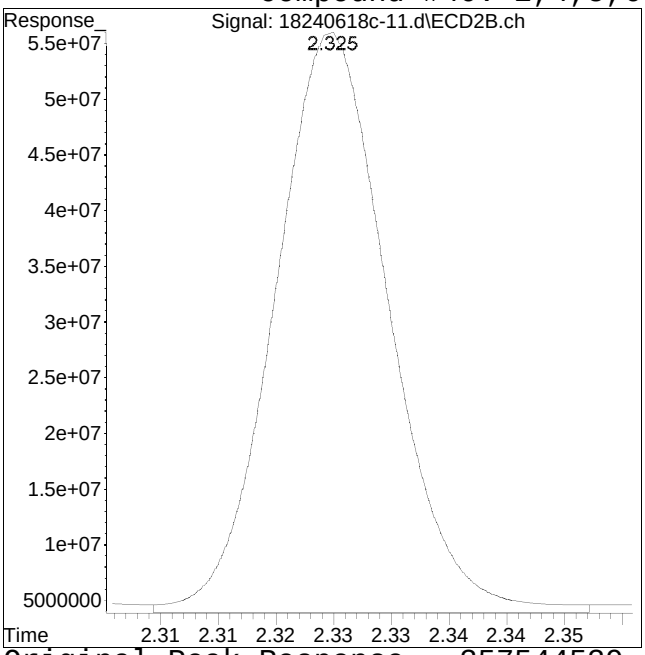
Manual Peak Response = 681437809 M4

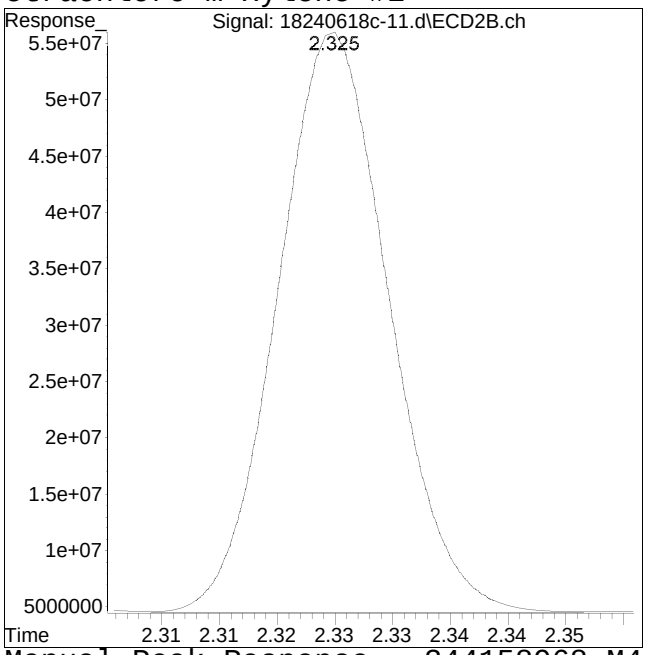
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



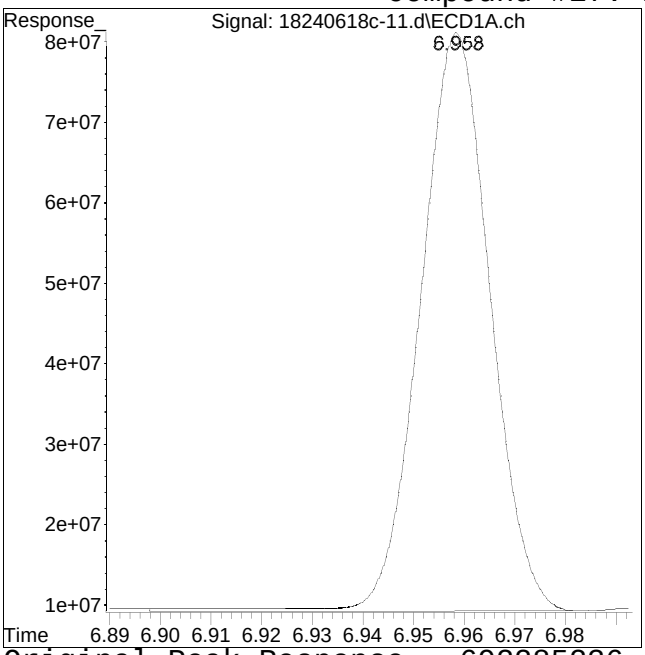


Original Peak Response = 357544539 Manual Peak Response = 344158968 M4
M4 = Poor automated baseline construction.

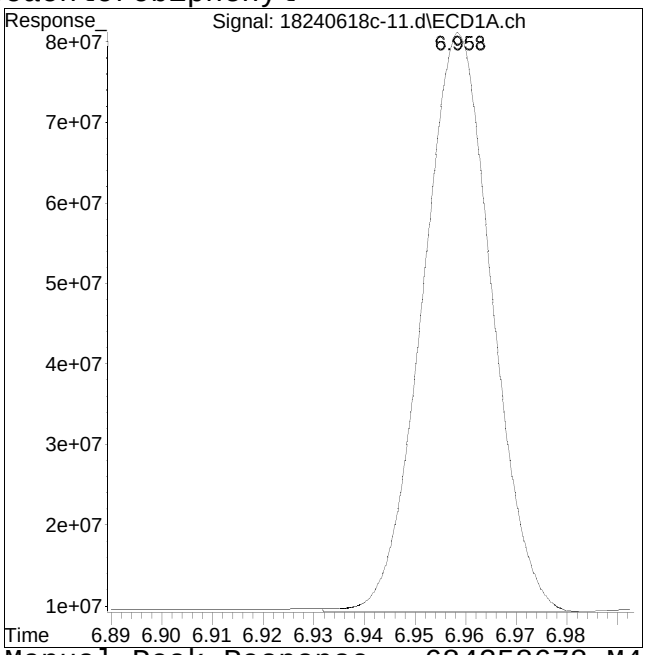
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 692285236



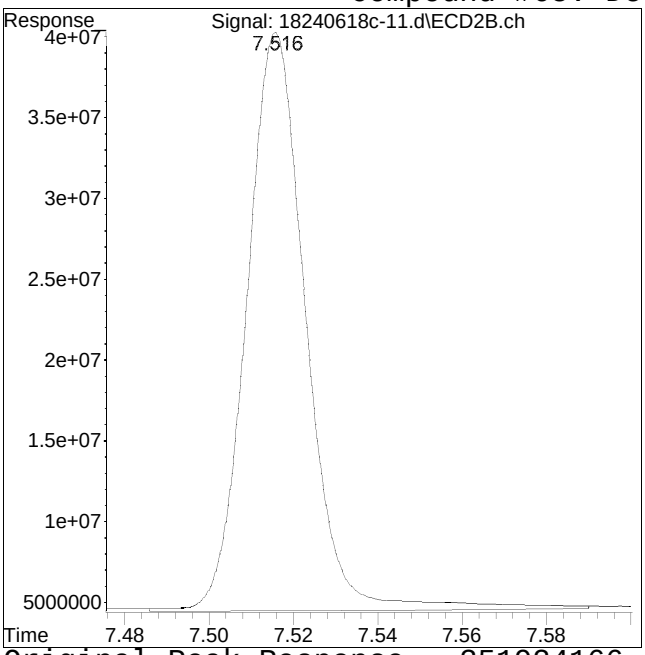
Manual Peak Response = 684358678 M4

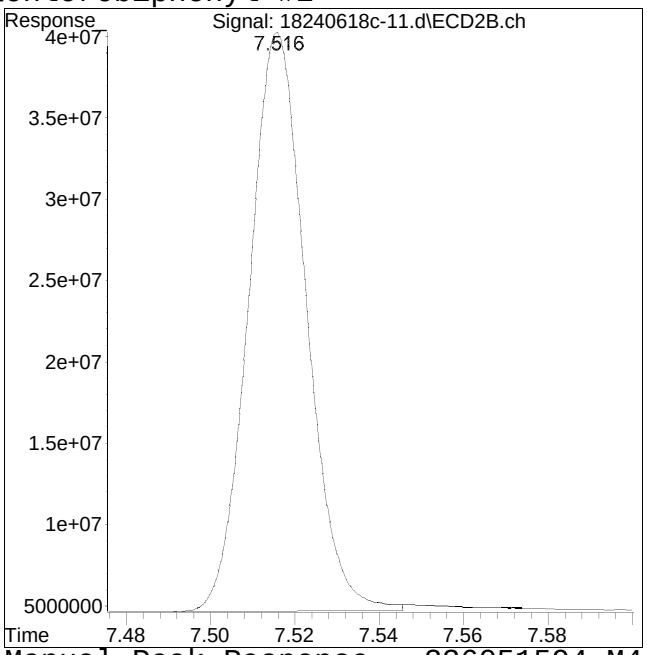
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #65: Decachlorobiphenyl #2



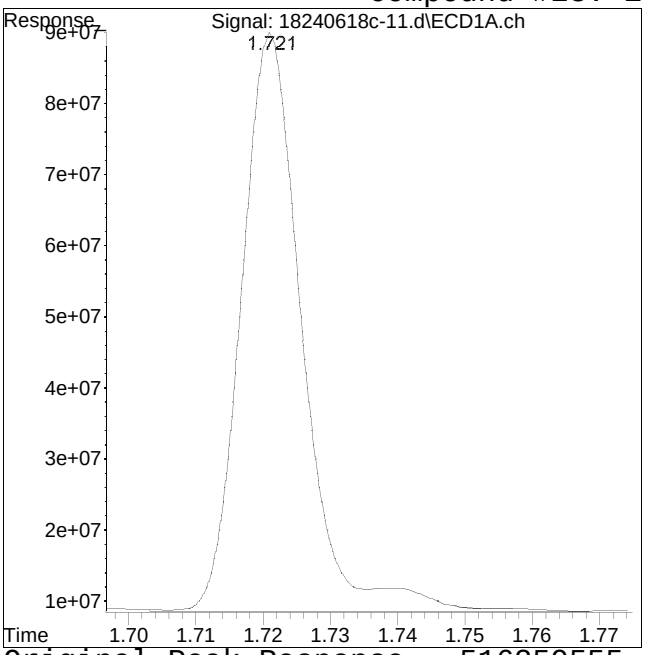


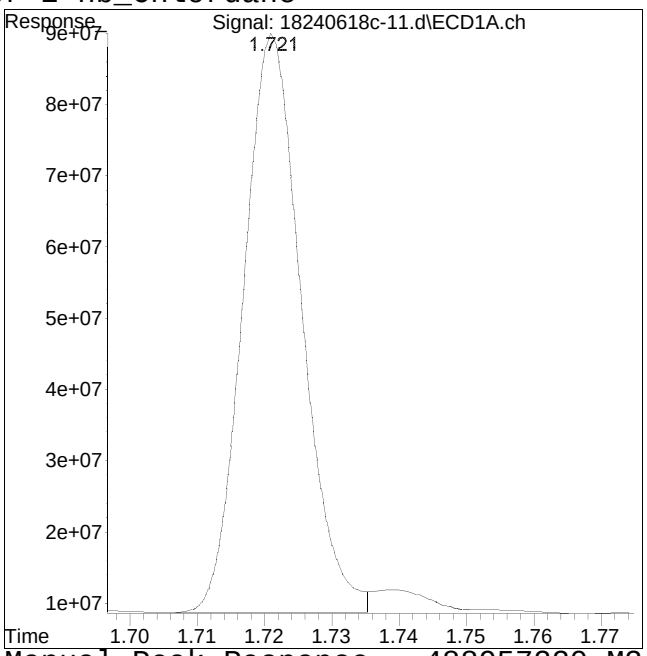
Original Peak Response = 351924166 Manual Peak Response = 336051594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #28: 1-br-2-nb_Chlordane



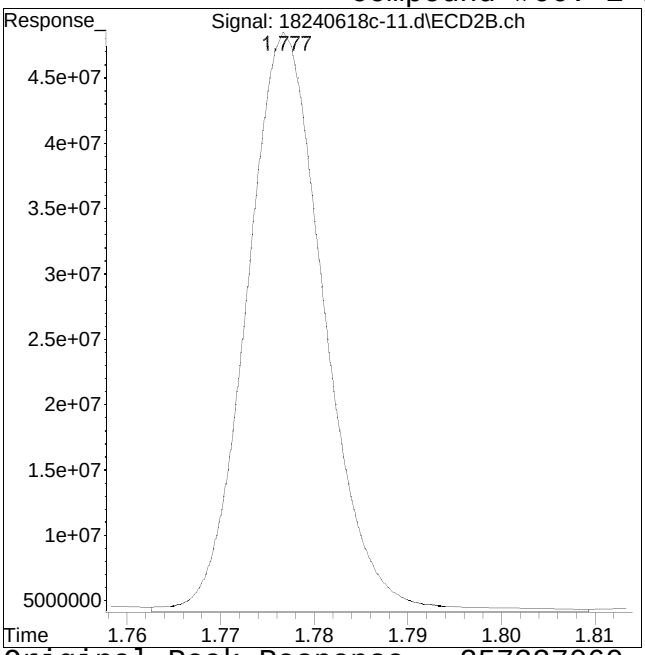


Original Peak Response = 516259555 Manual Peak Response = 488957220 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

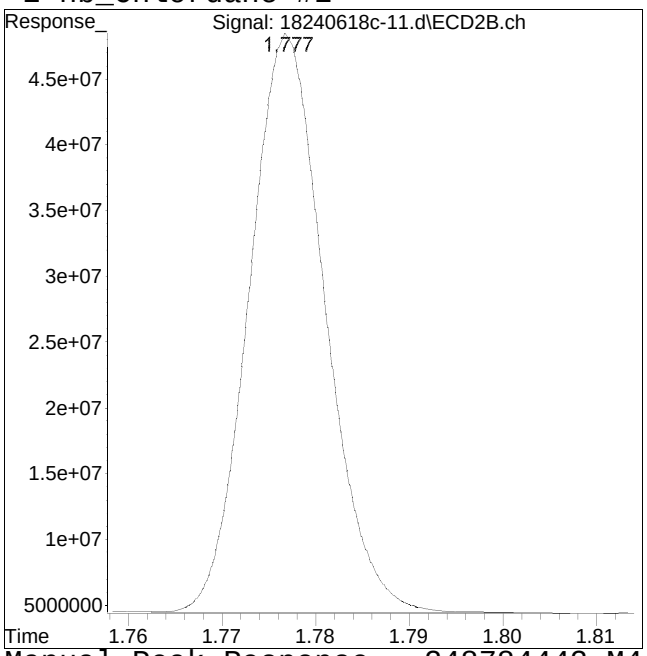
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 257337060



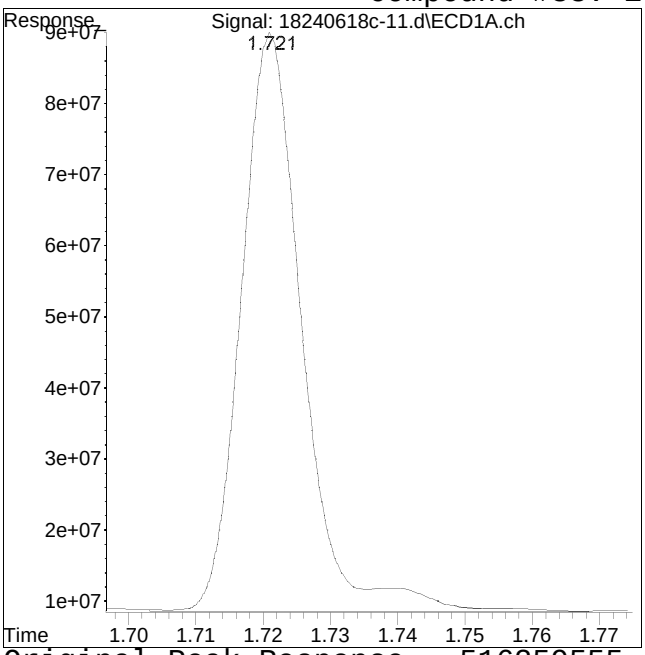
Manual Peak Response = 248784442 M4

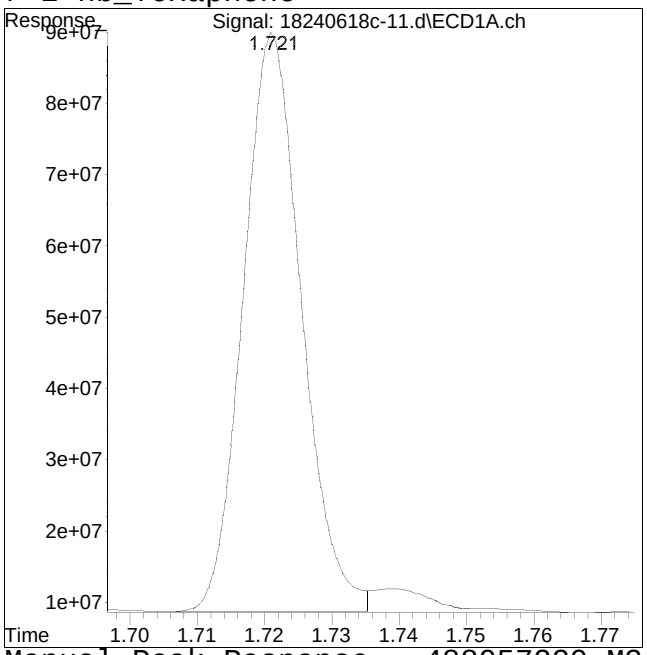
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #33: 1-br-2-nb_Toxaphene



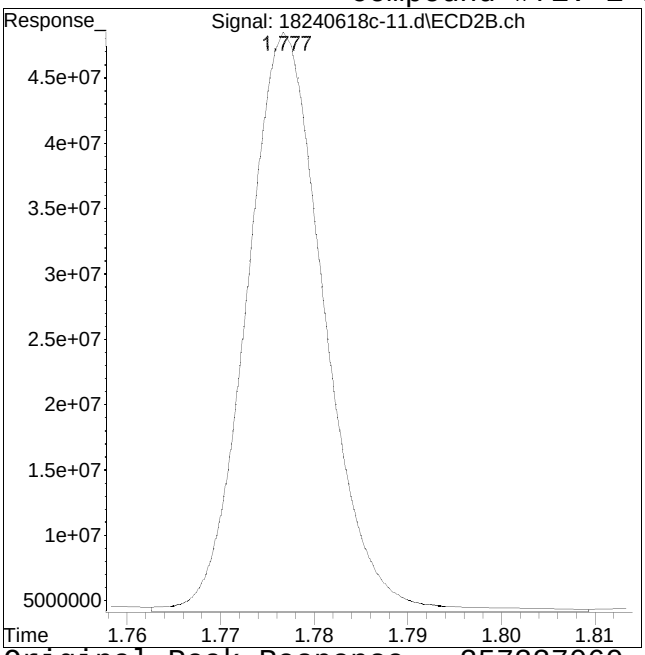


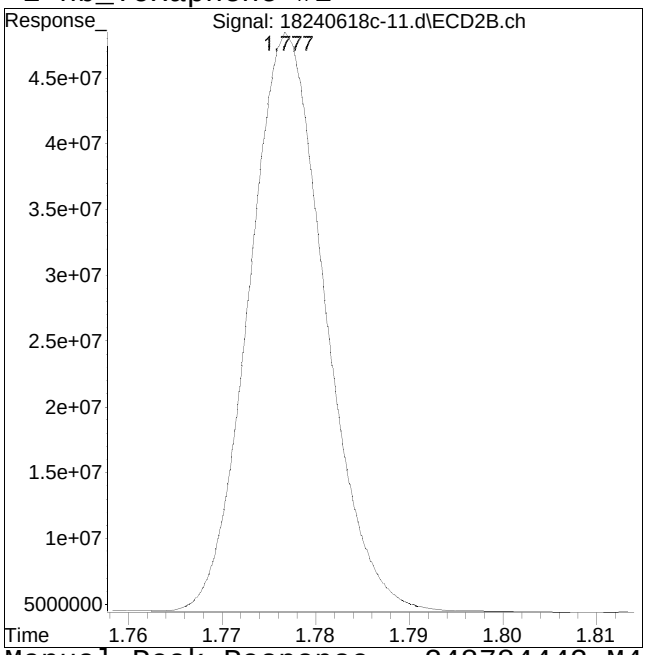
Original Peak Response = 516259555 Manual Peak Response = 488957220 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-11.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:25 Instrument : Pest 18
Sample : L2433035-03,42,, p Quant Date : 6/18/2024 3:33 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 257337060 Manual Peak Response = 248784442 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:59
Operator : PEST18:mmg
Sample : L2433035-04,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	487.2E6	249.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 107.80%		
	Standard Area 1 : #2 = 223085596				Recovery = 111.78%		
28) i	1-br-2-nb_Ch	1.720	1.776	487.2E6	249.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.720	1.776	487.2E6	249.4E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.324	686.9E6	350.9E6	35.729M4	35.495M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 71.46%		70.99%
27) s	Decachlorobi	6.959	7.516	526.8E6	257.2E6	32.506M4	35.764M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 65.01%		71.53%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:59
Operator : PEST18:mmg
Sample : L2433035-04,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

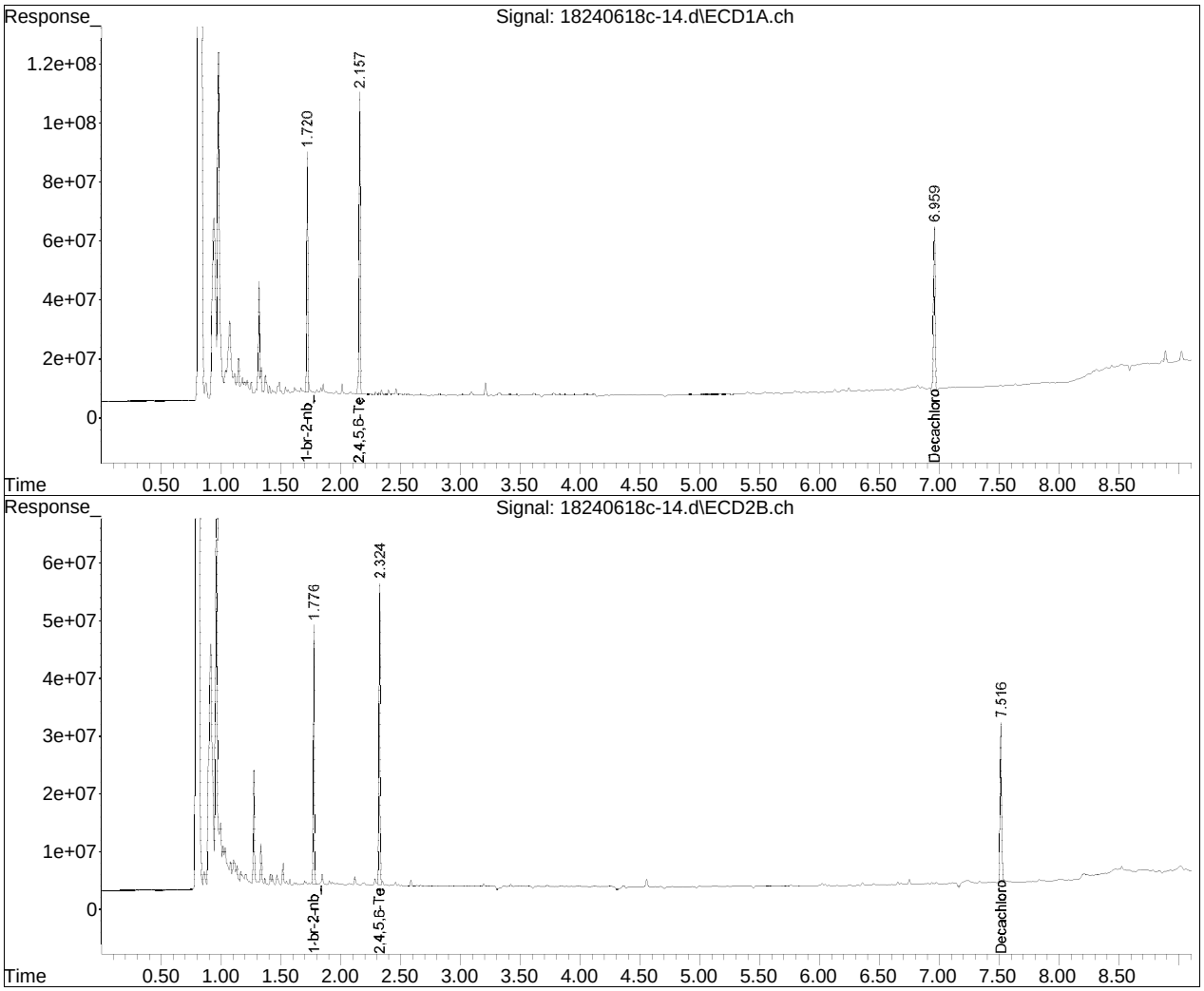
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:59
Operator : PEST18:mmg
Sample : L2433035-04,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

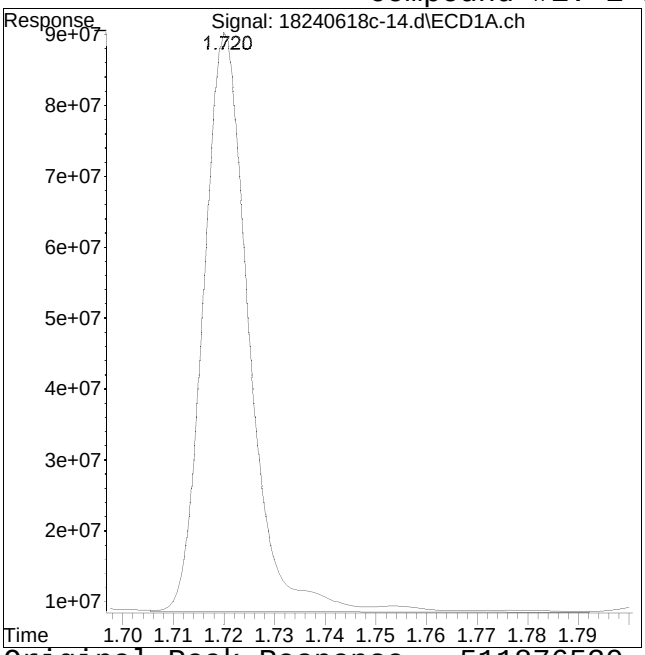
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



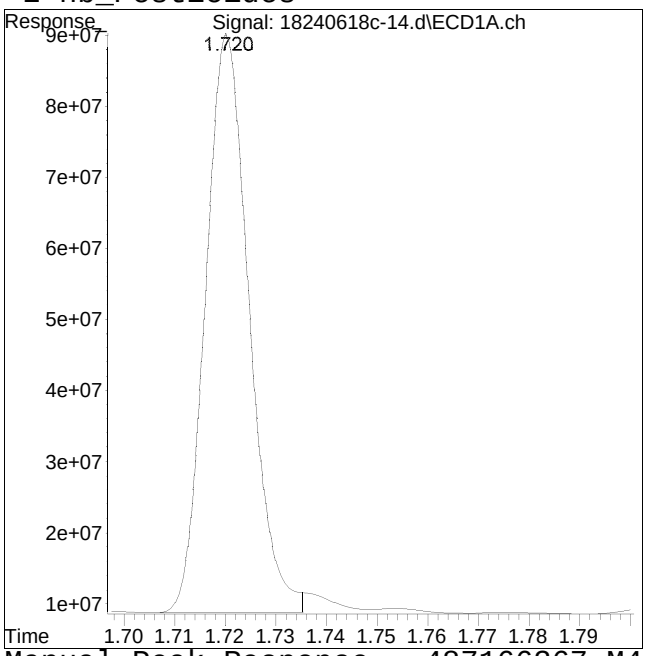
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 511876530



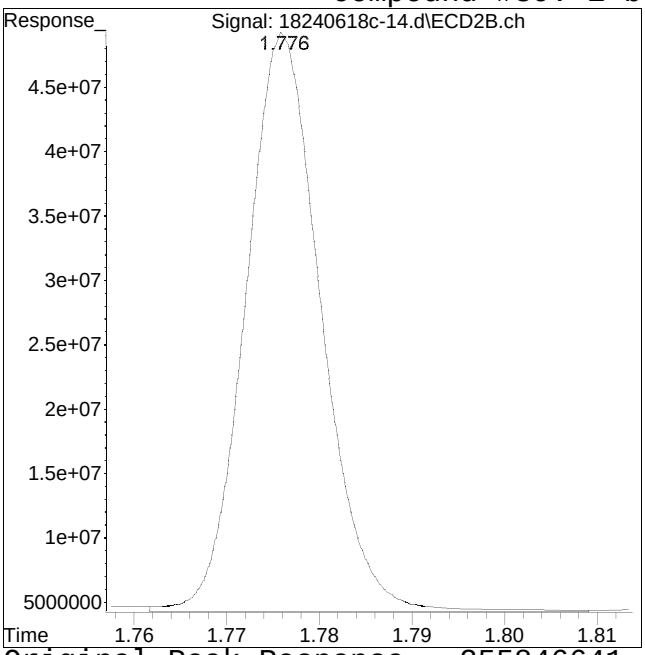
Manual Peak Response = 487166367 M4

M4 = Poor automated baseline construction.

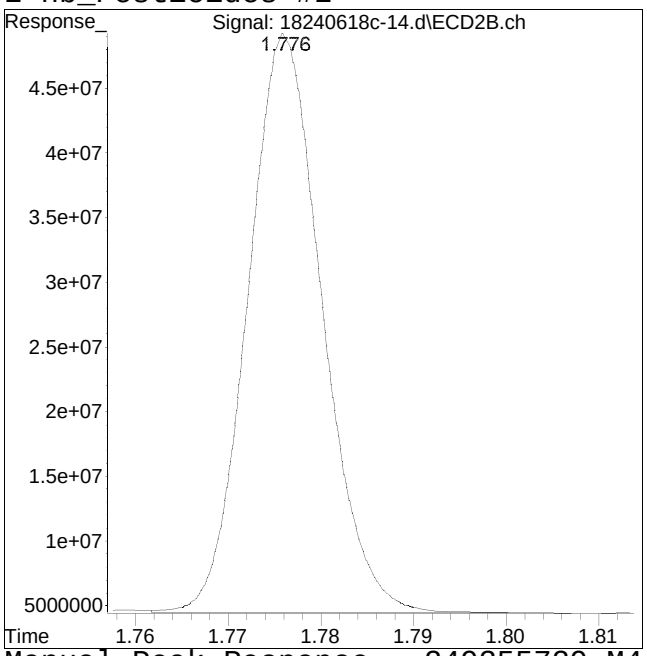
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 255846641



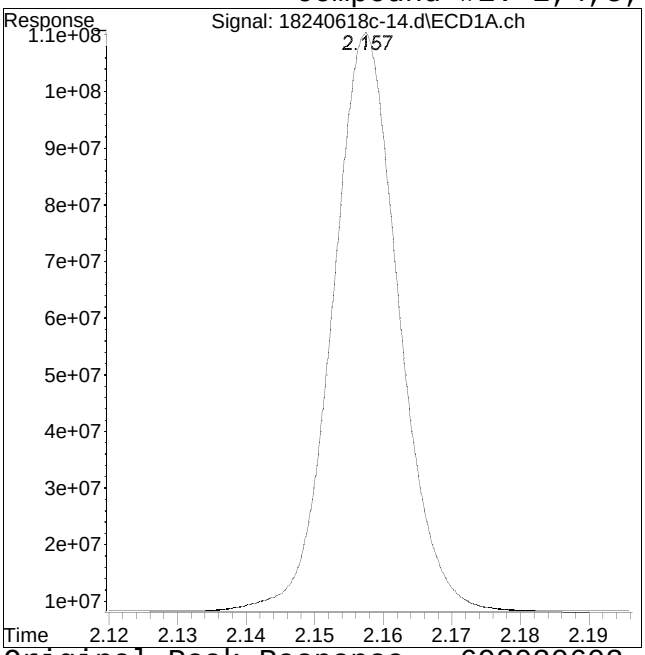
Manual Peak Response = 249355729 M4

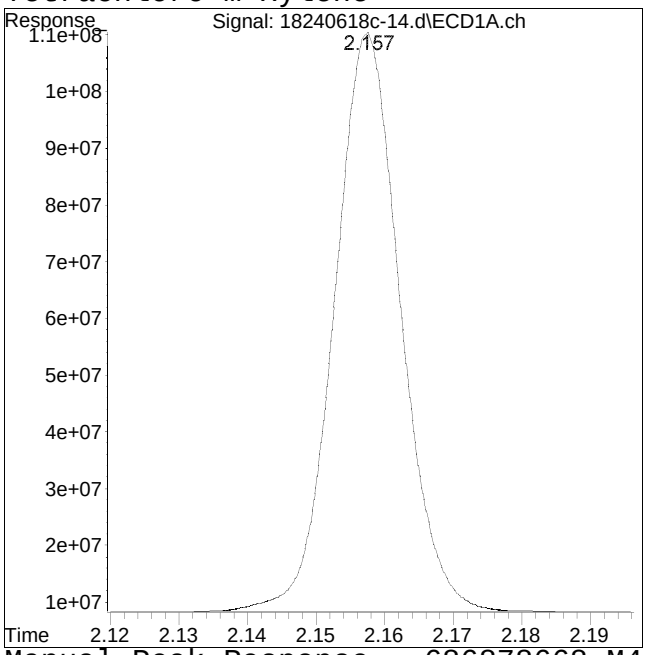
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



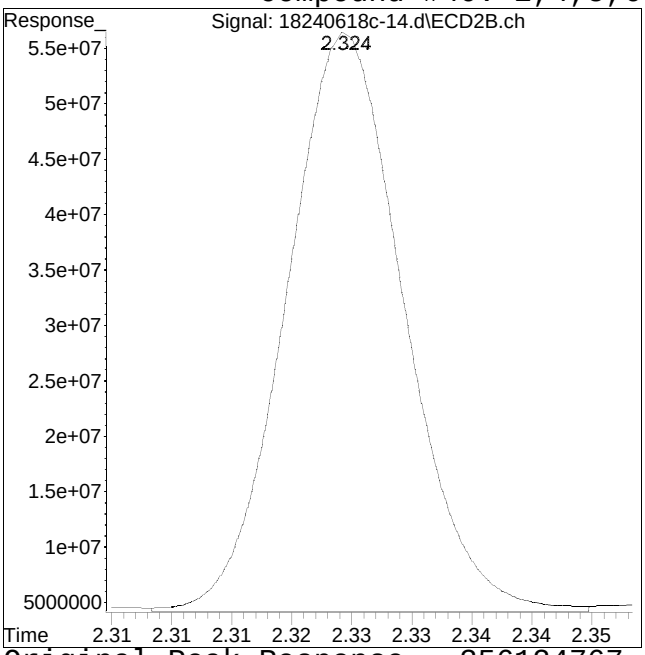


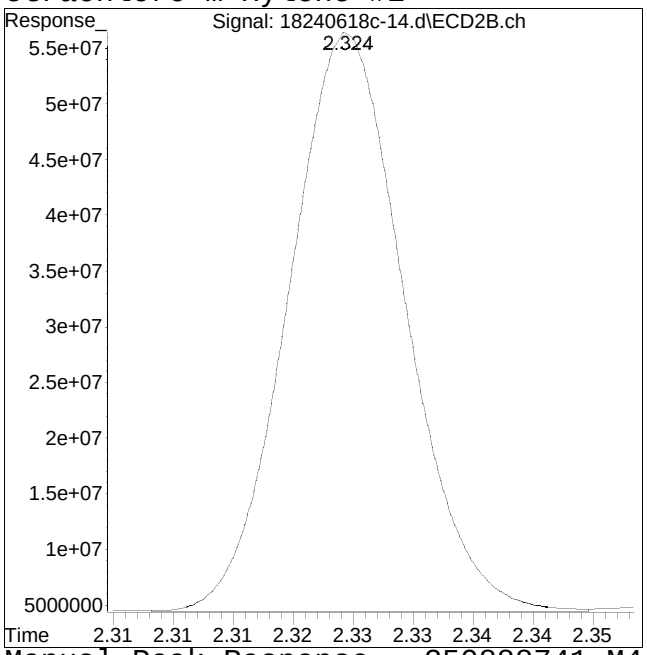
Original Peak Response = 693020603 Manual Peak Response = 686878668 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



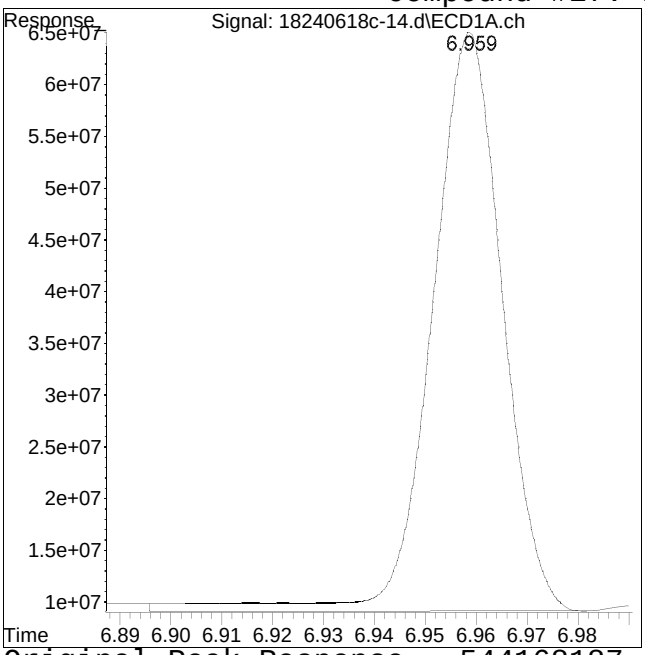


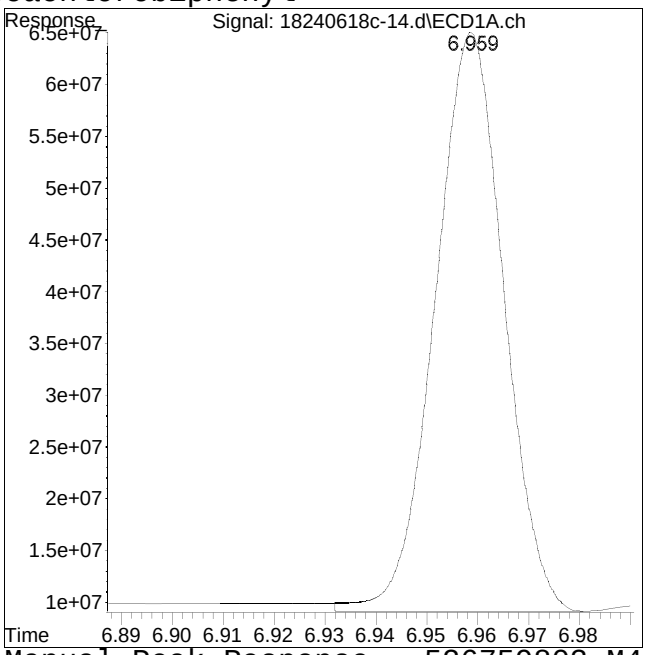
Original Peak Response = 356124767 Manual Peak Response = 350888741 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #27: Decachlorobiphenyl



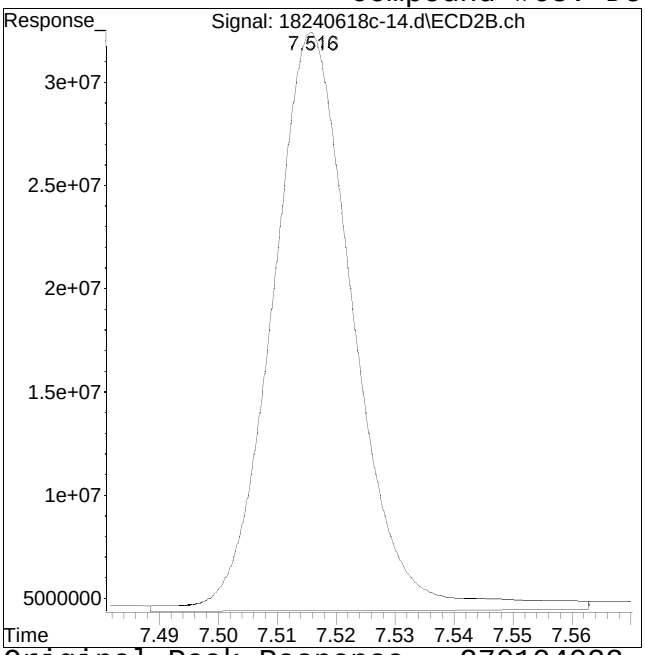


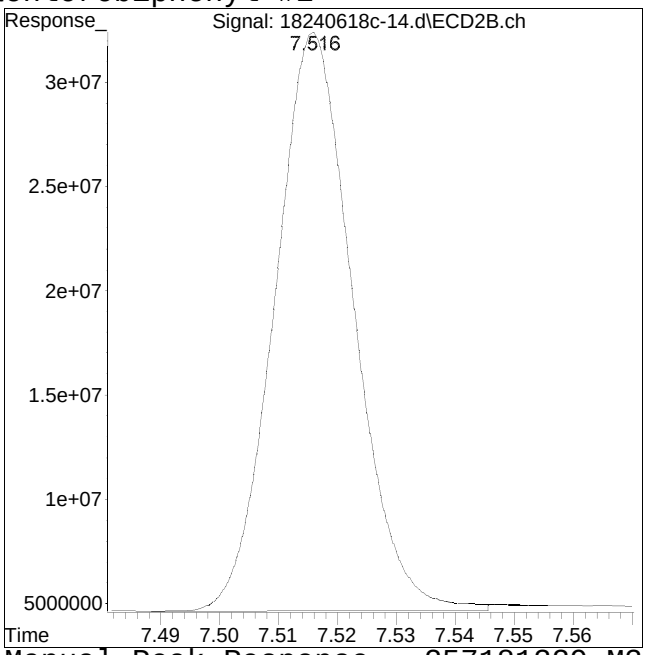
Original Peak Response = 544168187 Manual Peak Response = 526759803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #65: Decachlorobiphenyl #2



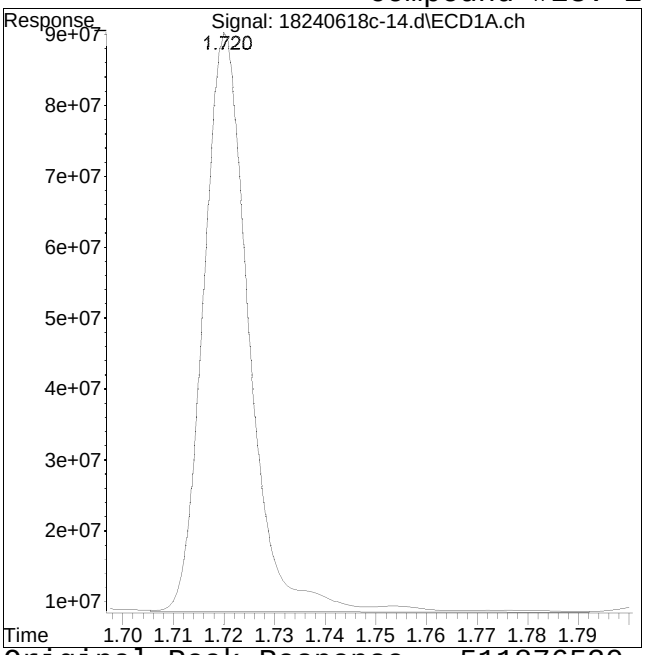


Original Peak Response = 270104922 Manual Peak Response = 257181329 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

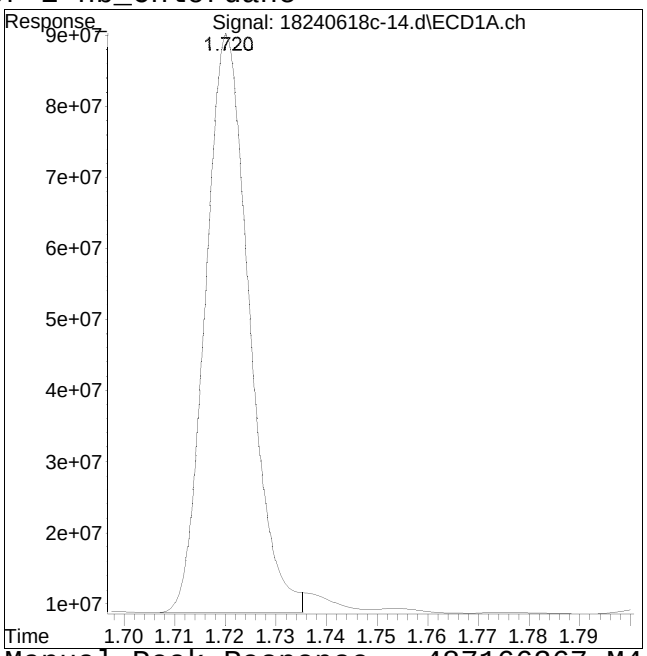
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 511876530



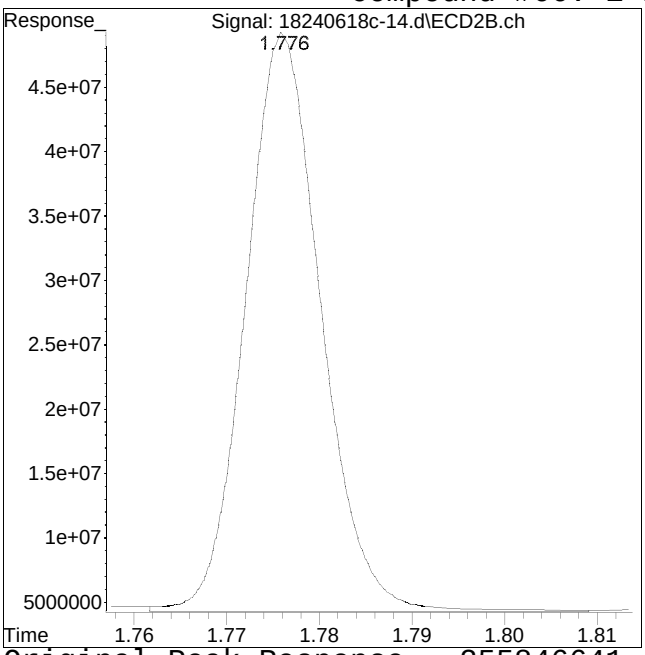
Manual Peak Response = 487166367 M4

M4 = Poor automated baseline construction.

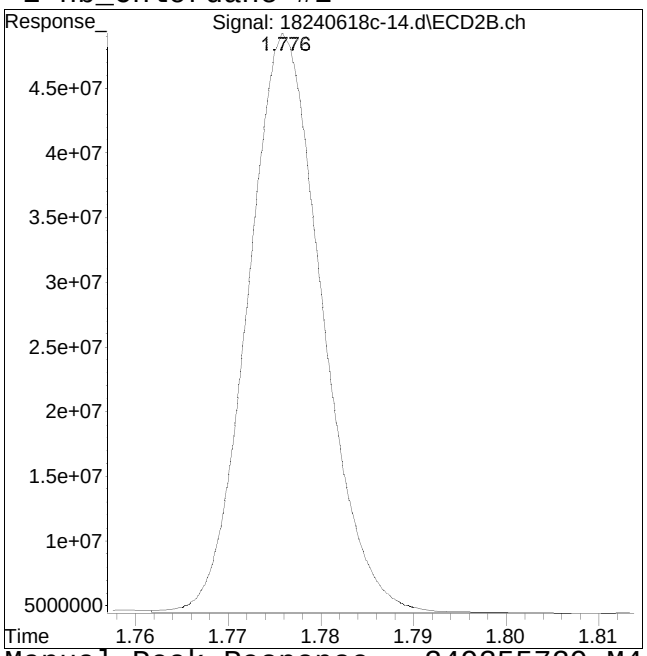
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 255846641



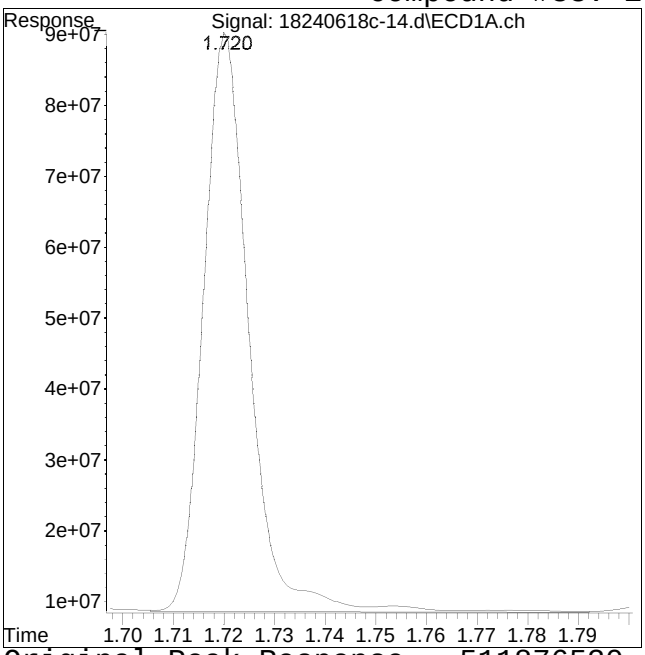
Manual Peak Response = 249355729 M4

M4 = Poor automated baseline construction.

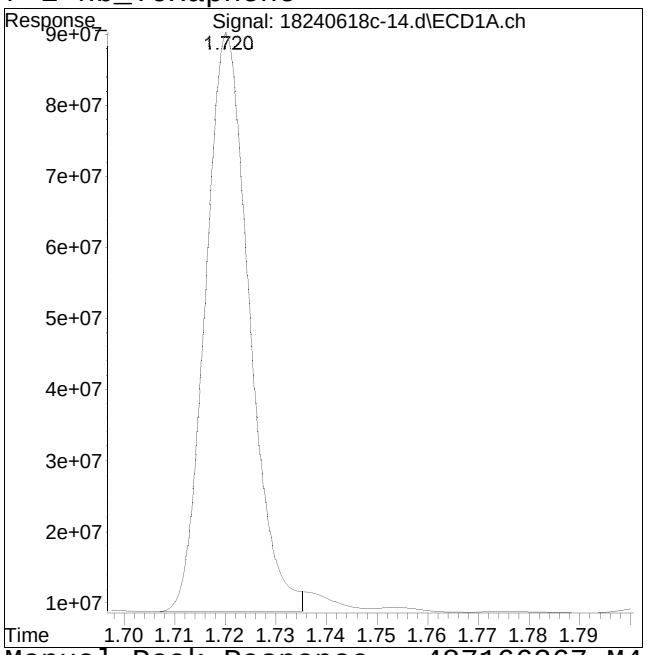
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 511876530



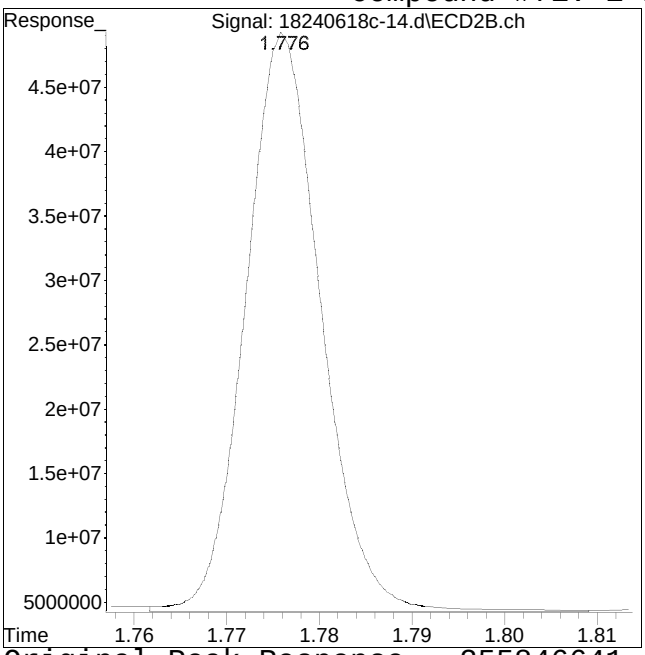
Manual Peak Response = 487166367 M4

M4 = Poor automated baseline construction.

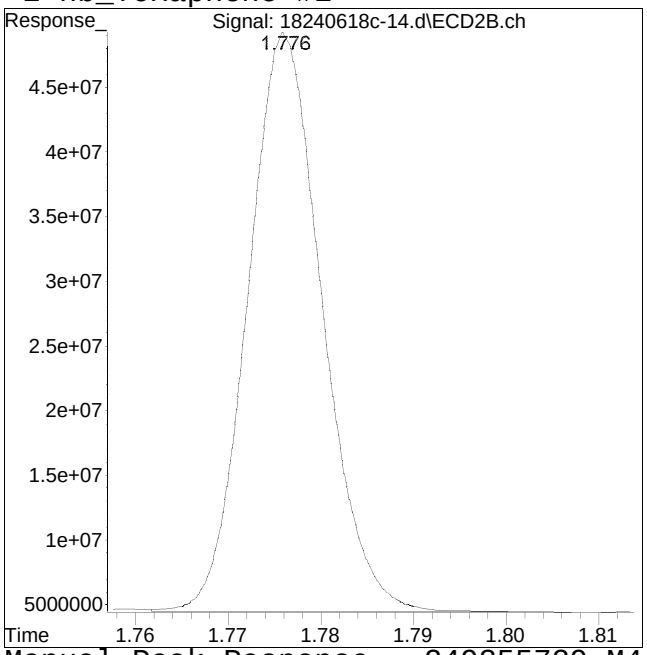
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-14.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:59 Instrument : Pest 18
Sample : L2433035-04,42,, Quant Date : 6/18/2024 3:34 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 255846641



Manual Peak Response = 249355729 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:11
Operator : PEST18:mmg
Sample : L2433035-05,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	481.5E6	246.2E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 106.53%		
	Standard Area 1 : #2 = 223085596				Recovery = 110.35%		
28) i	1-br-2-nb_Ch	1.720	1.776	481.5E6	246.2E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.720	1.776	481.5E6	246.2E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.325	644.5E6	327.8E6	33.920M3	33.590M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 67.84%		67.18%
27) s	Decachlorobi	6.957	7.516	615.8E6	306.6E6	38.689M3	43.463M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 77.38%		86.93%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:11
Operator : PEST18:mmg
Sample : L2433035-05,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

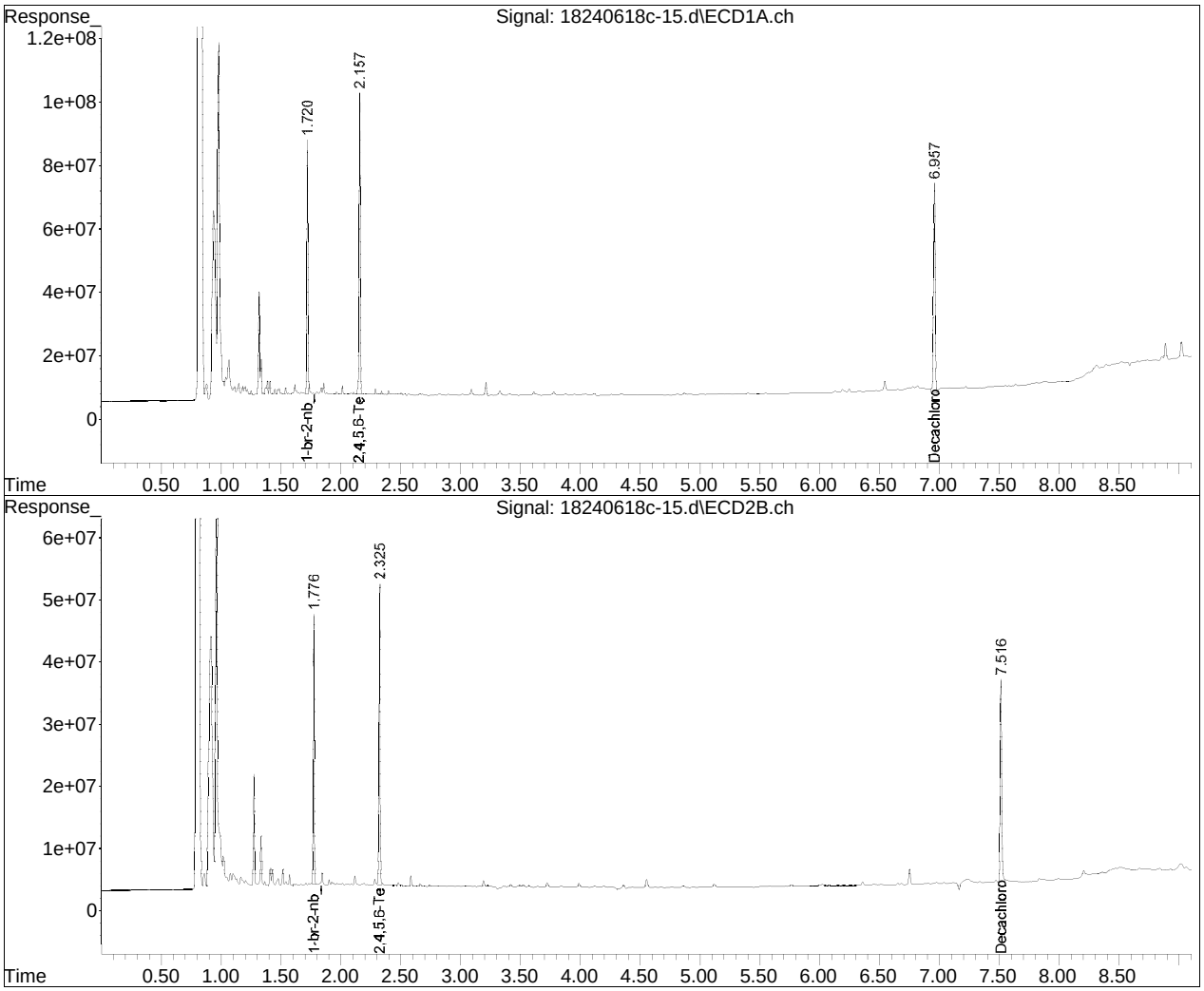
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:11
Operator : PEST18:mmg
Sample : L2433035-05,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

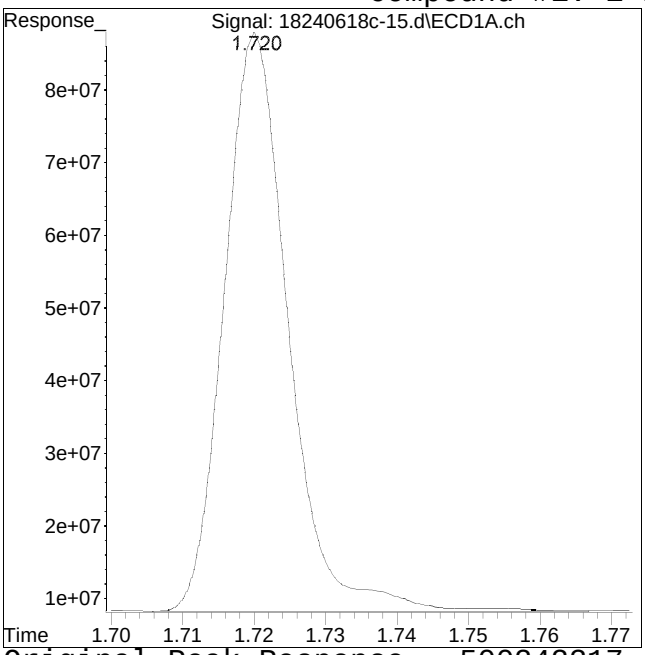
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

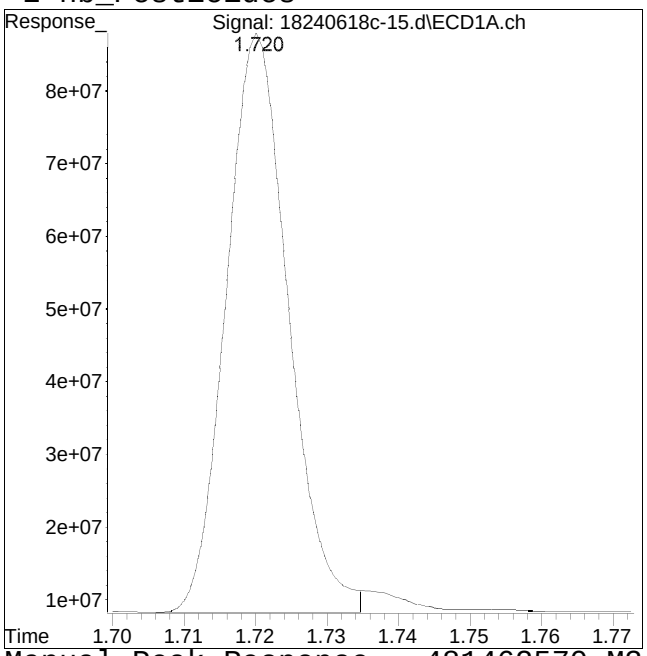


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #1: 1-br-2-nb_Pesticides



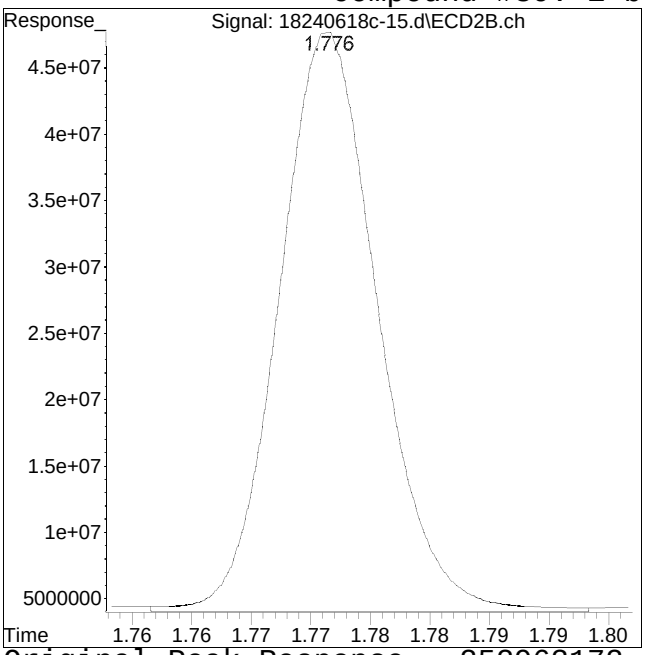


Original Peak Response = 500242317 Manual Peak Response = 481462570 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

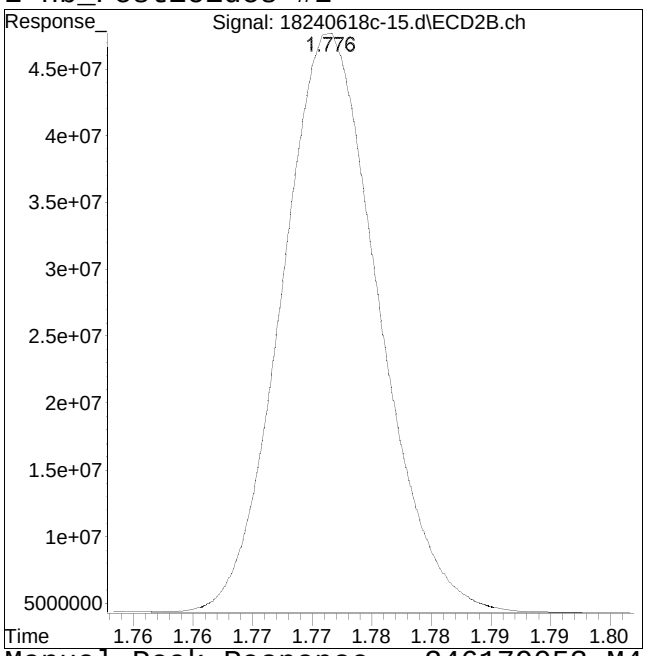
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 252963172



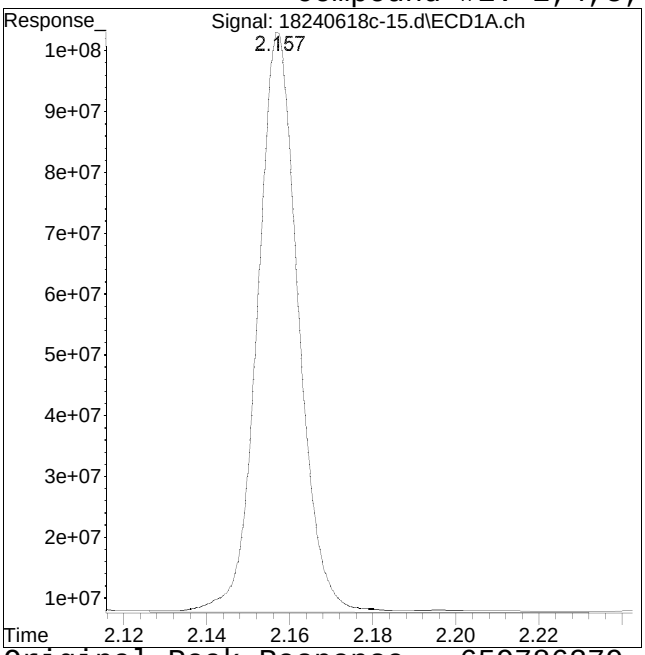
Manual Peak Response = 246179053 M4

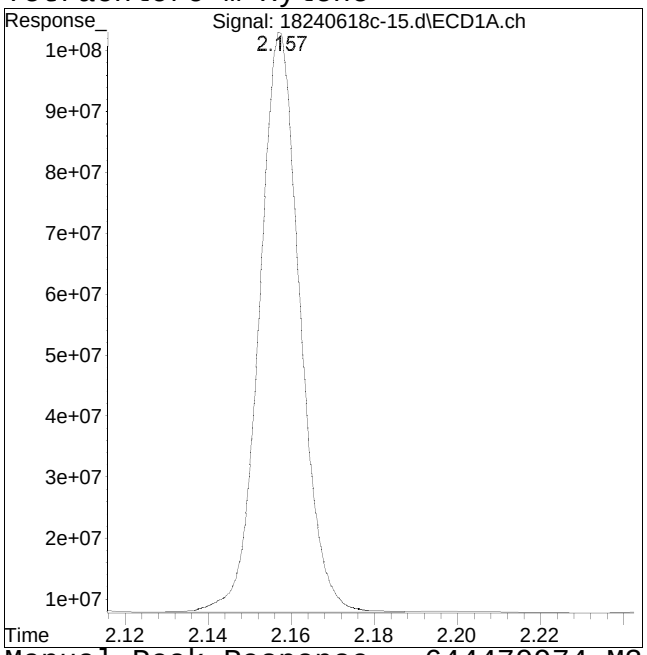
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



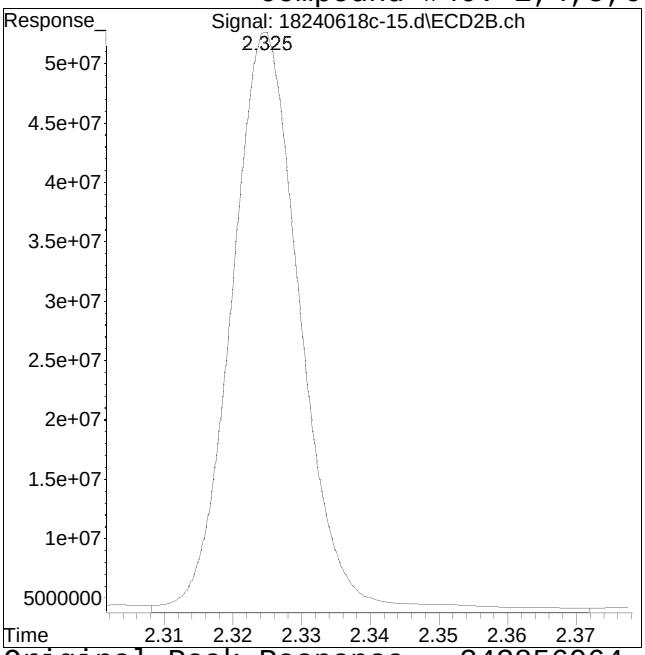


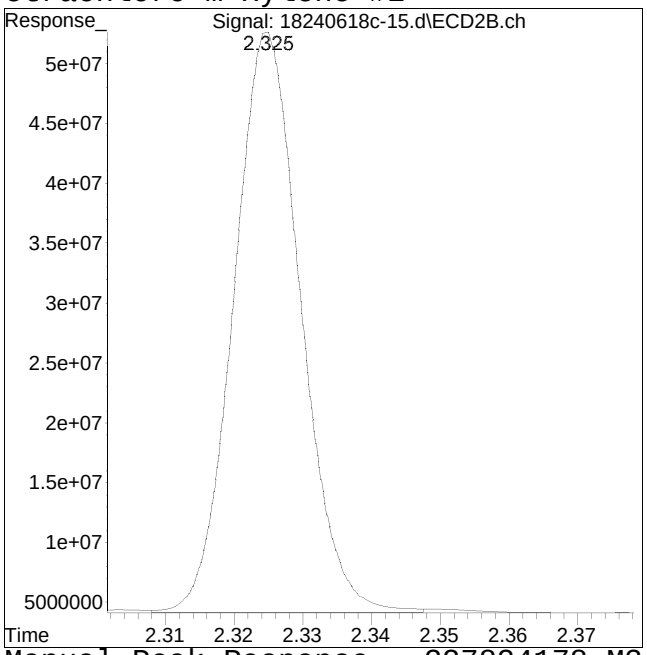
Original Peak Response = 659786379 Manual Peak Response = 644470974 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



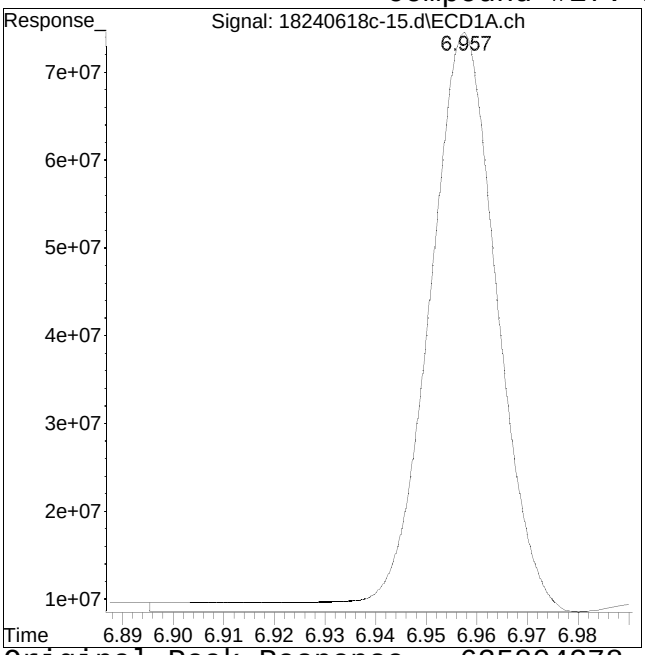


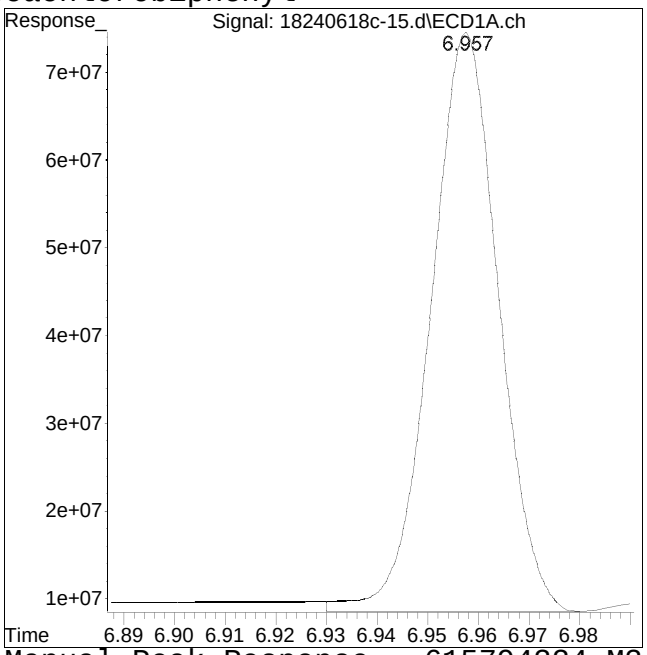
Original Peak Response = 343856964 Manual Peak Response = 327824178 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #27: Decachlorobiphenyl



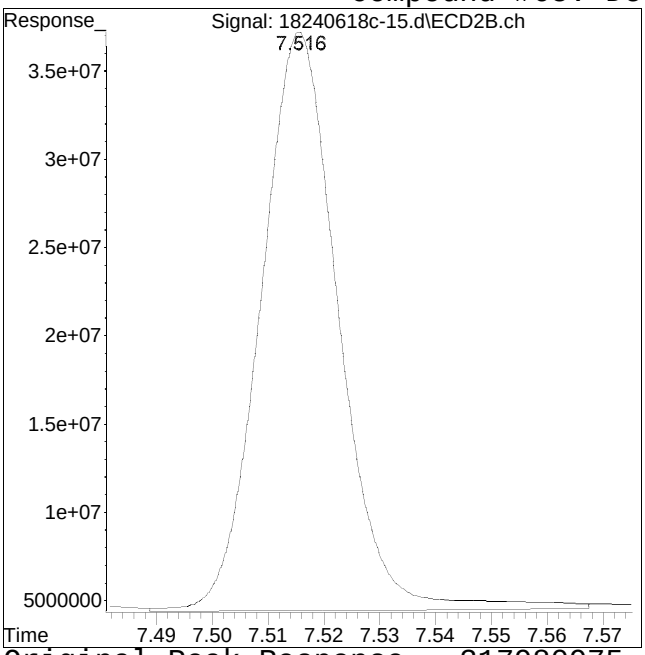


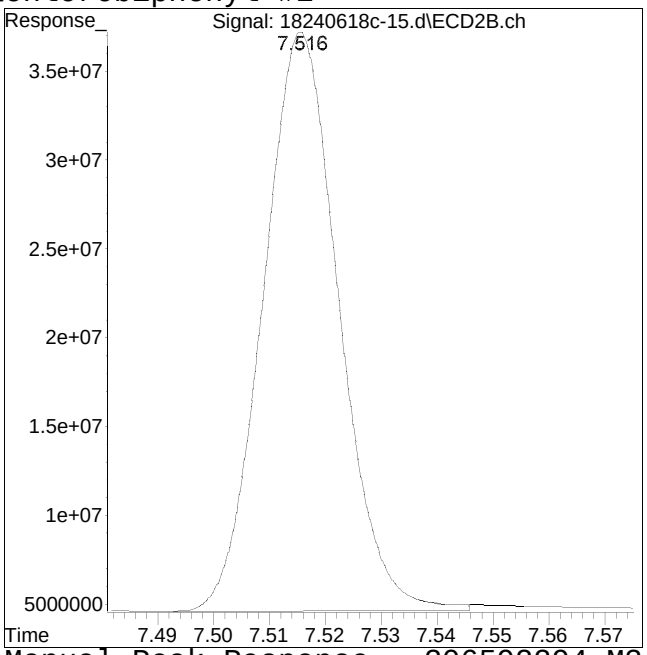
Original Peak Response = 635804378 Manual Peak Response = 615794324 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #65: Decachlorobiphenyl #2



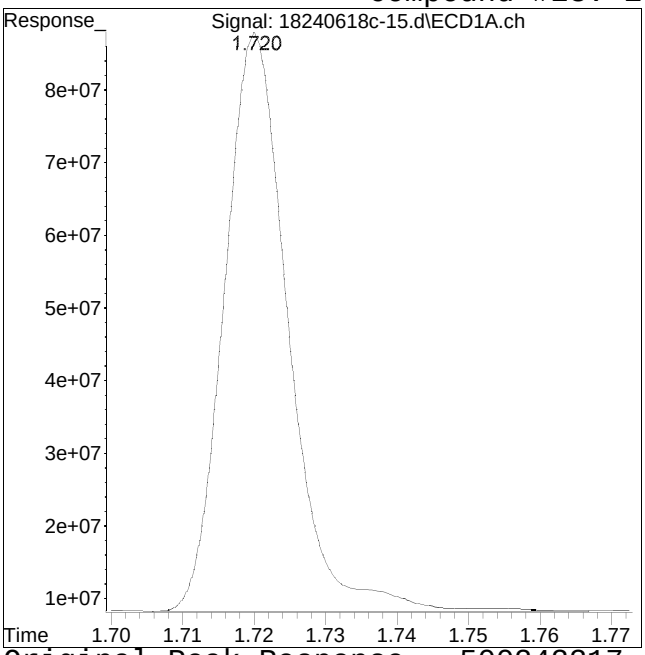


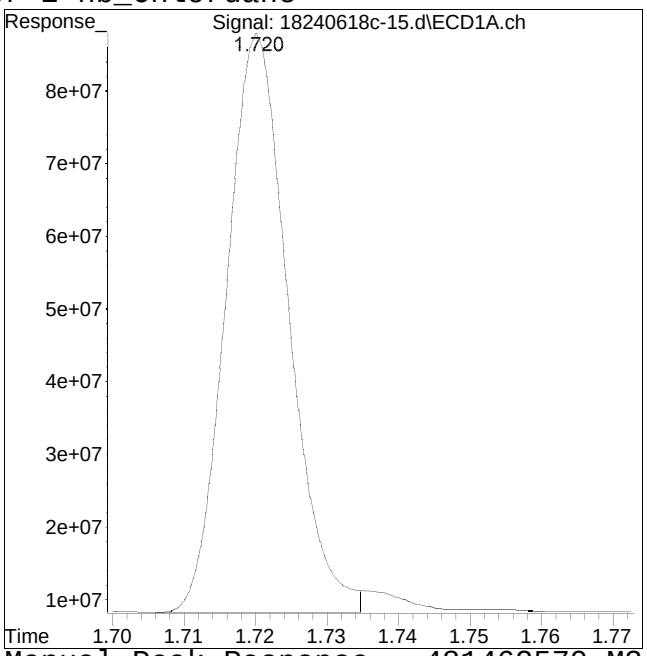
Original Peak Response = 317980975 Manual Peak Response = 306592294 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #28: 1-br-2-nb_Chlordane



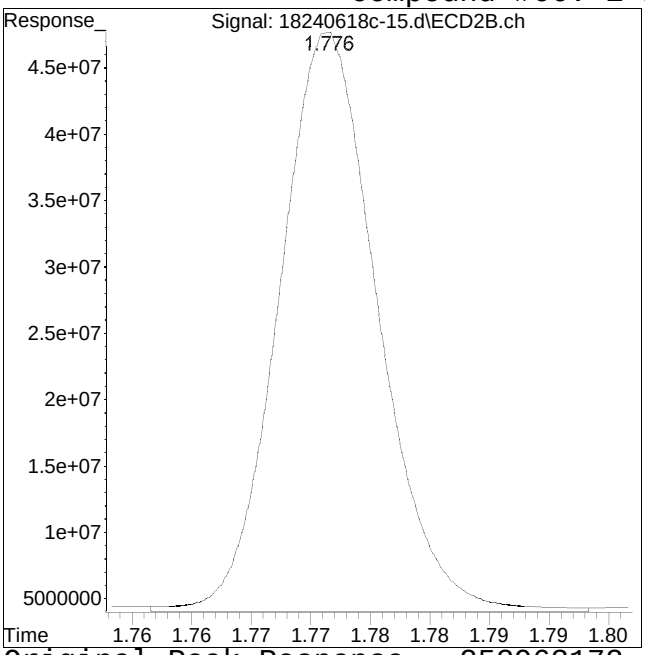


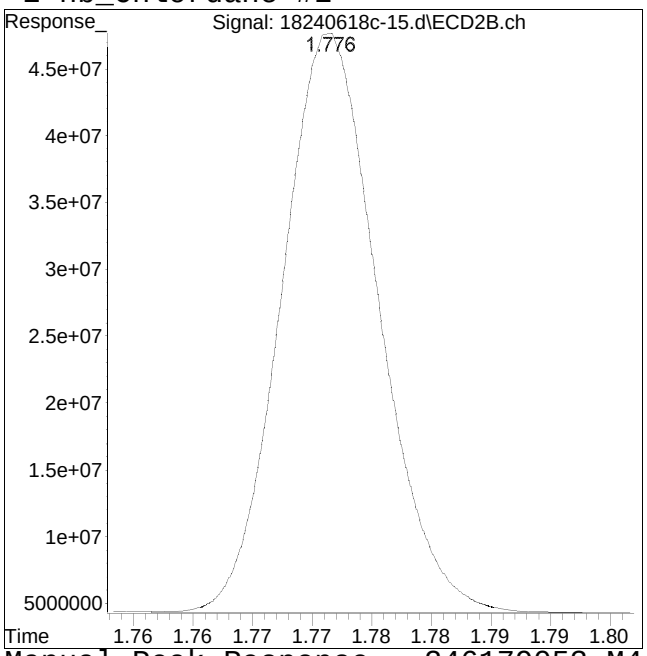
Original Peak Response = 500242317 Manual Peak Response = 481462570 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #66: 1-br-2-nb_Chlordane #2



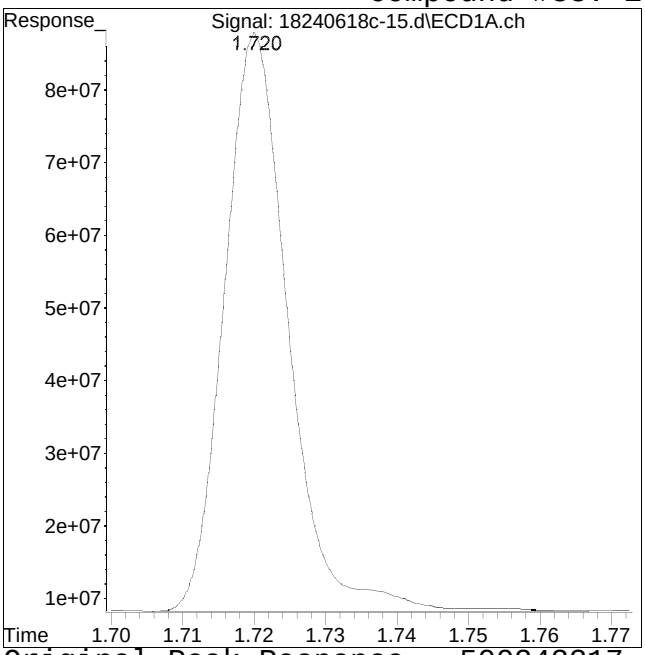


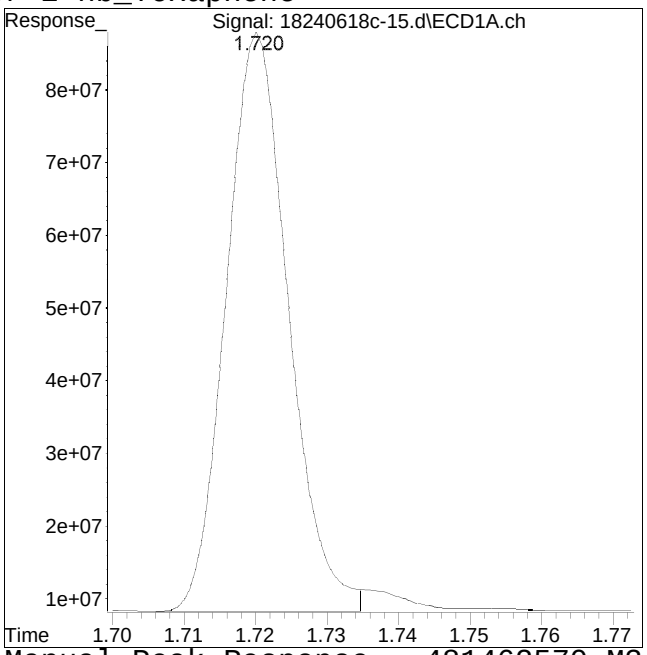
Original Peak Response = 252963172 Manual Peak Response = 246179053 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #33: 1-br-2-nb_Toxaphene



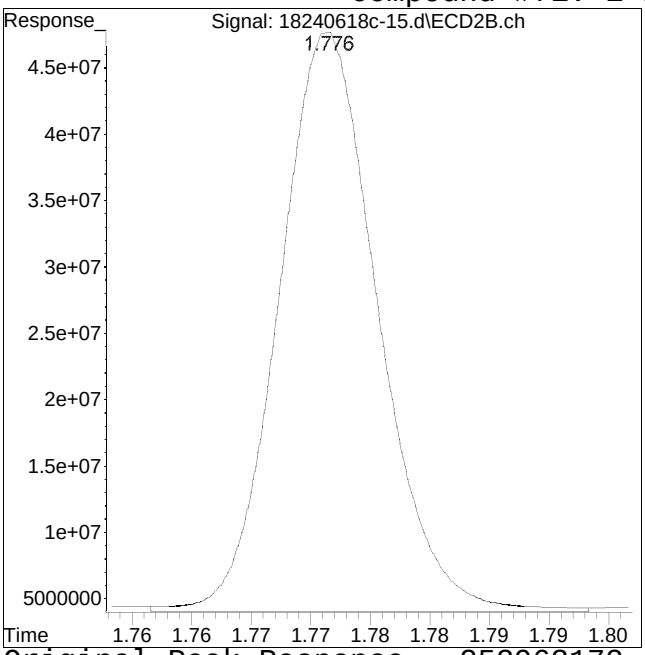


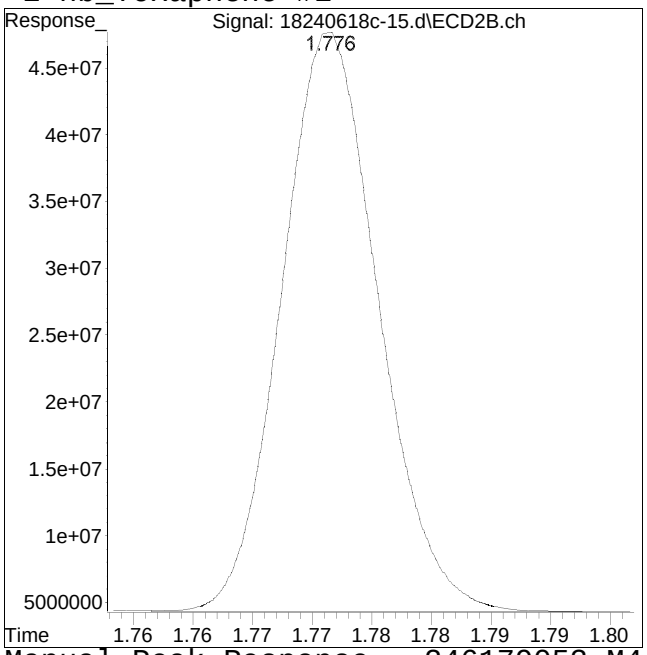
Original Peak Response = 500242317 Manual Peak Response = 481462570 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-15.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:11 Instrument : Pest 18
Sample : L2433035-05,42,, Quant Date : 6/18/2024 3:34 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 252963172 Manual Peak Response = 246179053 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:22
Operator : PEST18:mmg
Sample : L2433035-06,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	548.9E6	275.8E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 451933897				Recovery = 121.46%		
	Standard Area 1 : #2 = 223085596				Recovery = 123.63%		
28) i	1-br-2-nb_Ch	1.720	1.776	548.9E6	275.8E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	1.720	1.776	548.9E6	275.8E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.325	656.4E6	332.7E6	30.303M3	30.423M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 60.61%		60.85%
27) s	Decachlorobi	6.958	7.517	667.5E6	324.8E6	36.719M3	41.029M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 73.44%		82.06%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:22
Operator : PEST18:mmg
Sample : L2433035-06,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

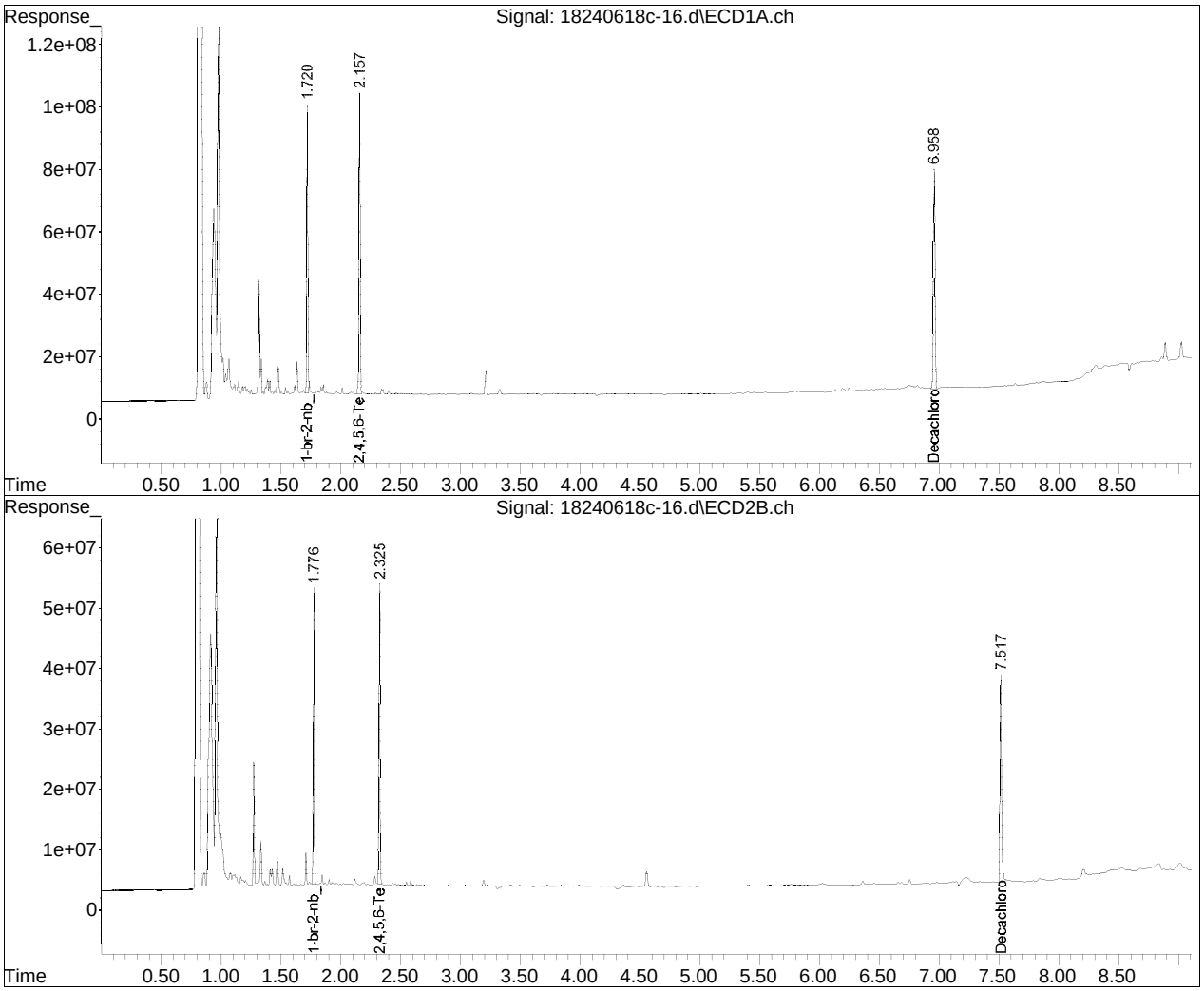
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:22
Operator : PEST18:mmg
Sample : L2433035-06,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:21 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

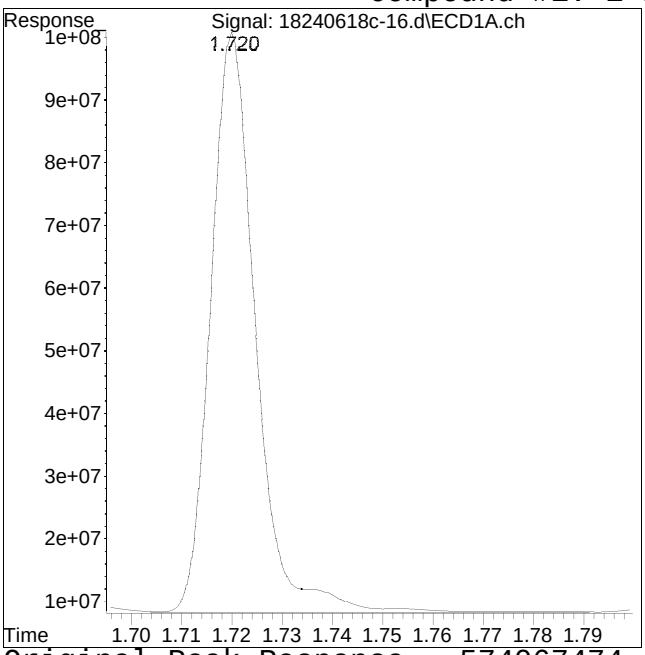
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

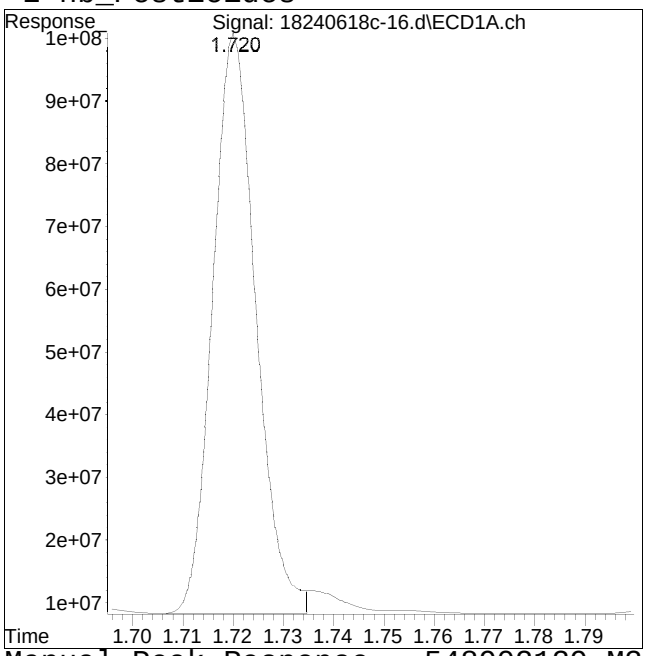


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #1: 1-br-2-nb_Pesticides



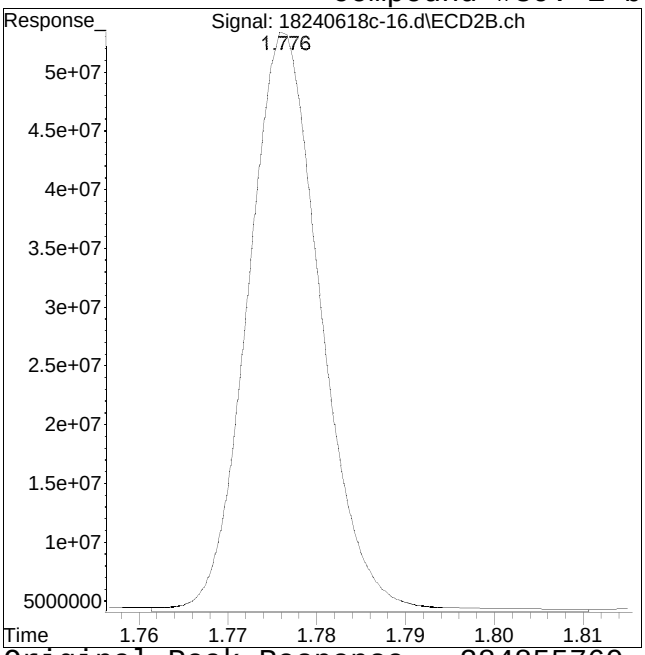


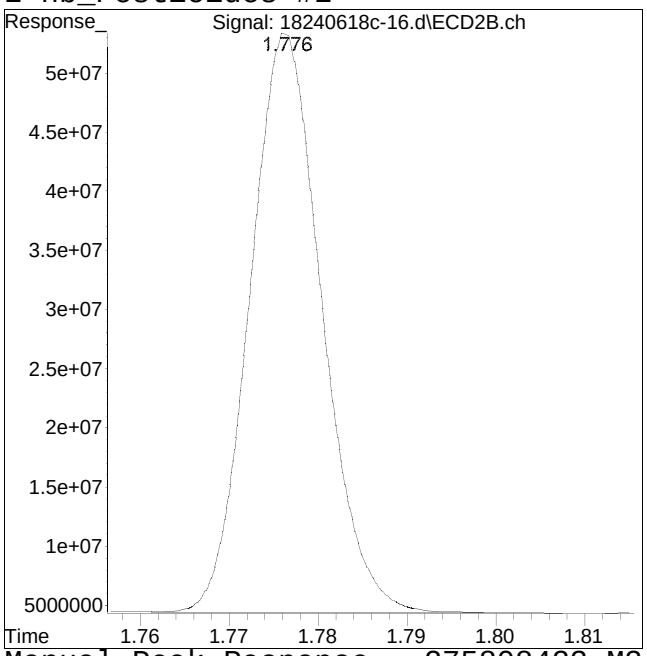
Original Peak Response = 574067474 Manual Peak Response = 548902129 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #39: 1-br-2-nb_Pesticides #2



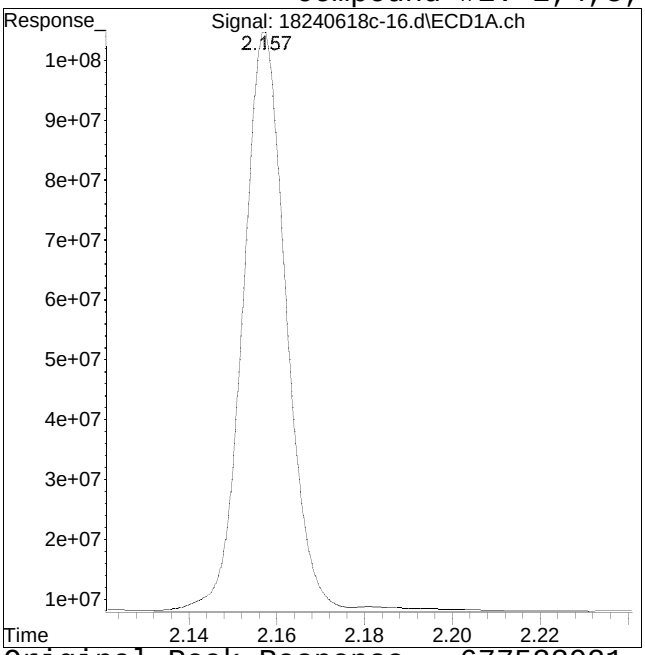


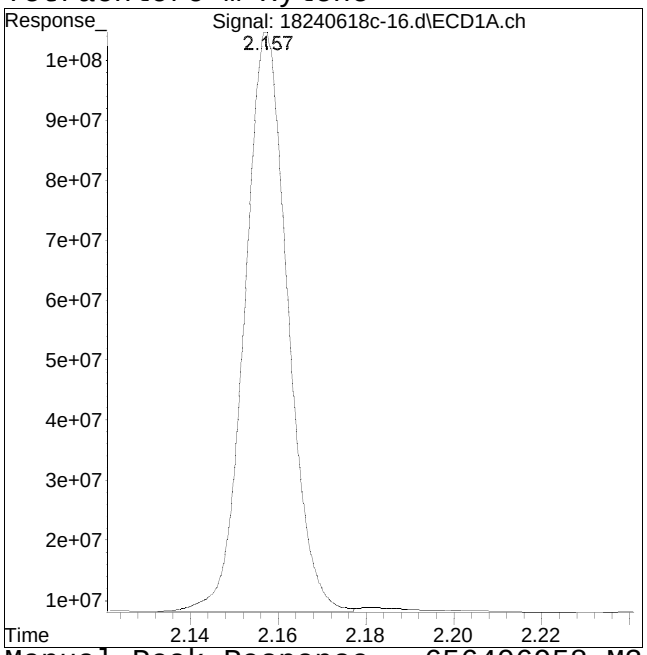
Original Peak Response = 284855760 Manual Peak Response = 275808423 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



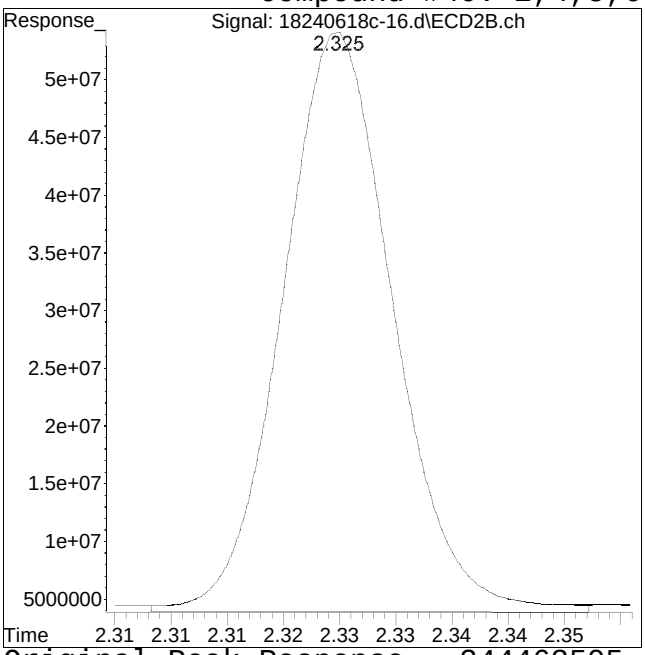


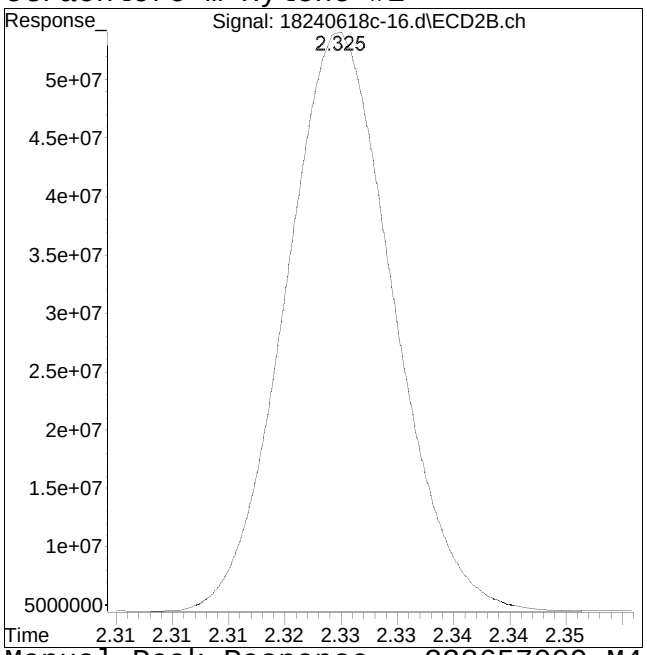
Original Peak Response = 677533921 Manual Peak Response = 656406958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



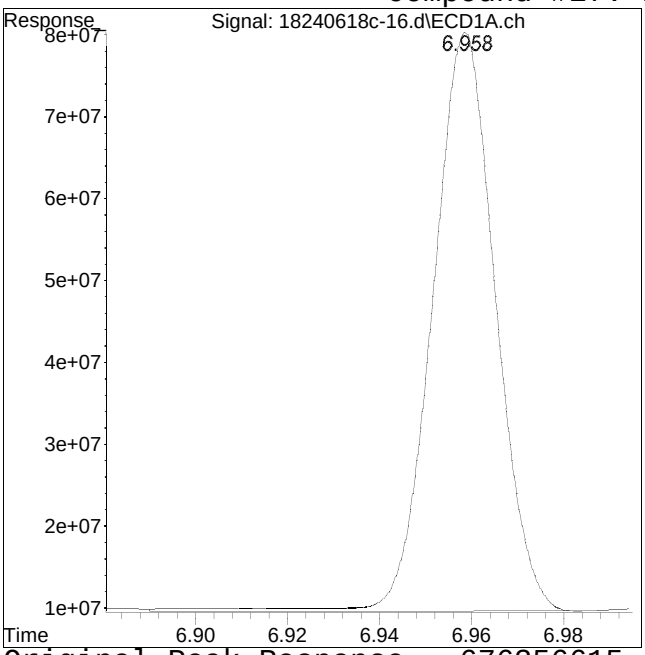


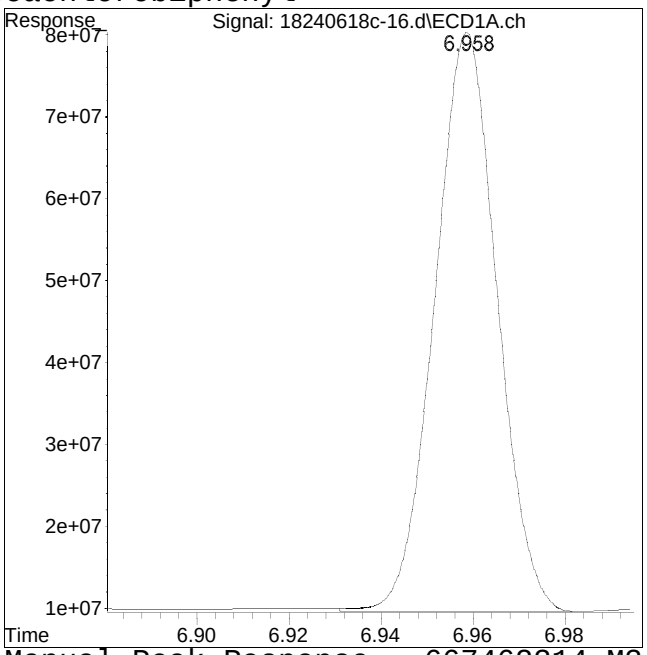
Original Peak Response = 344463505 Manual Peak Response = 332657099 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #27: Decachlorobiphenyl



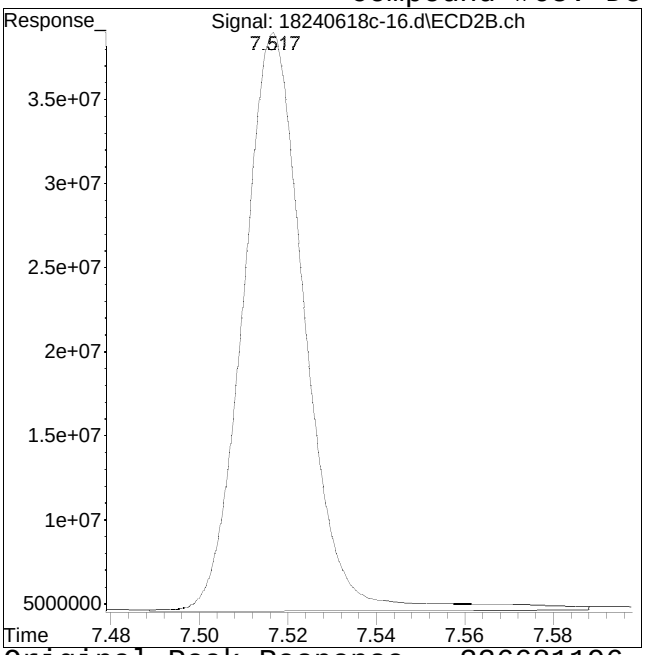


Original Peak Response = 676356615 Manual Peak Response = 667462314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

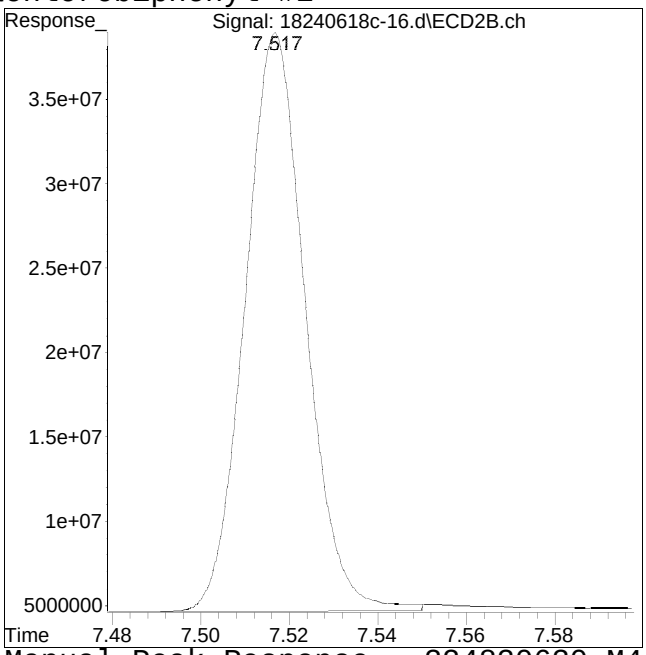
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 336681196



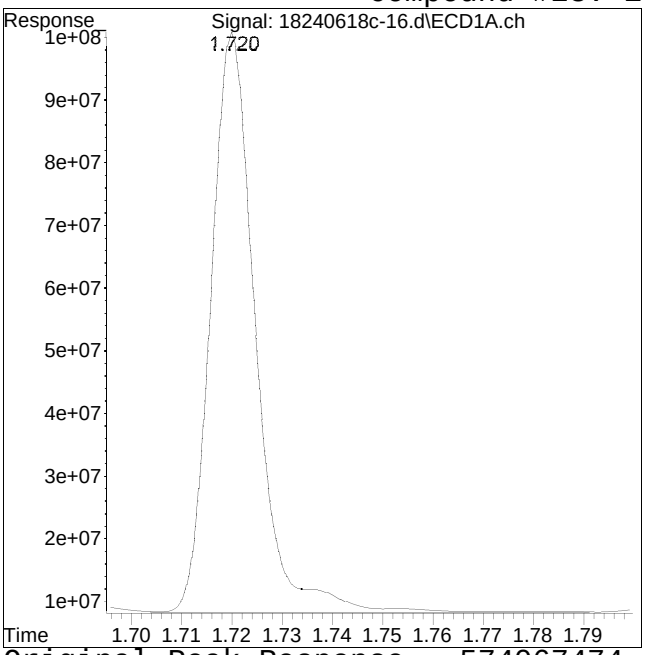
Manual Peak Response = 324830630 M4

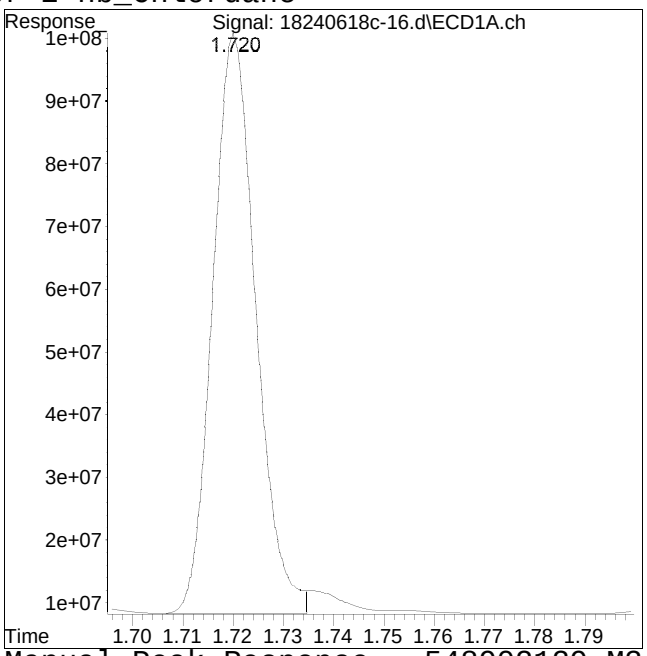
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #28: 1-br-2-nb_Chlordane



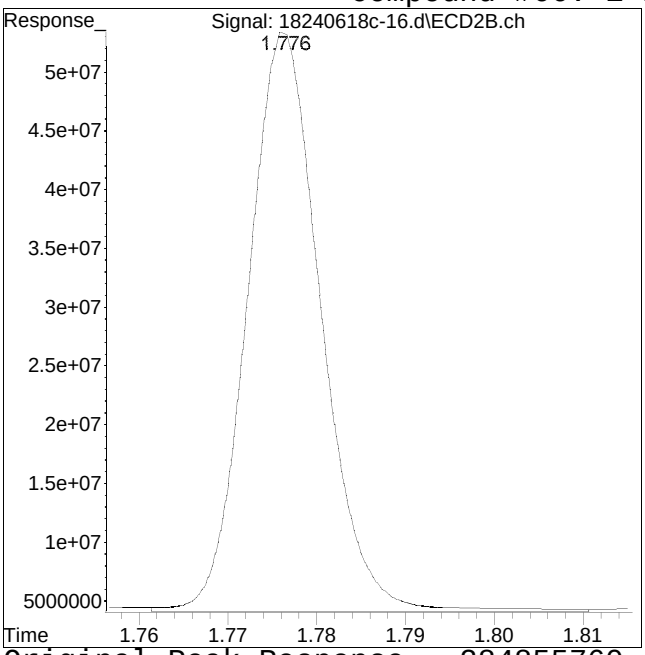


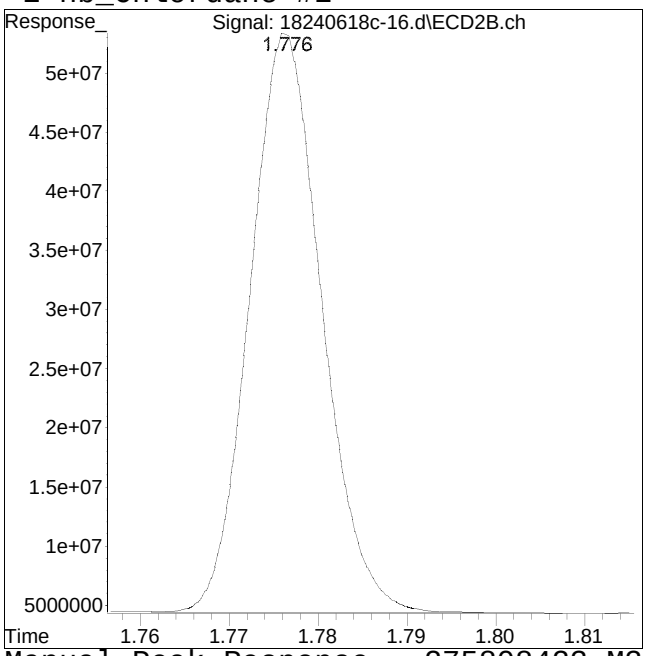
Original Peak Response = 574067474 Manual Peak Response = 548902129 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #66: 1-br-2-nb_Chlordane #2



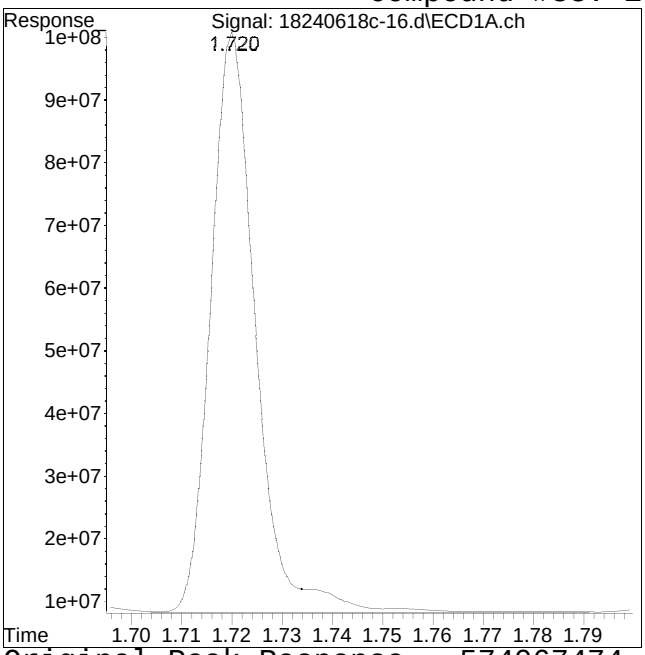


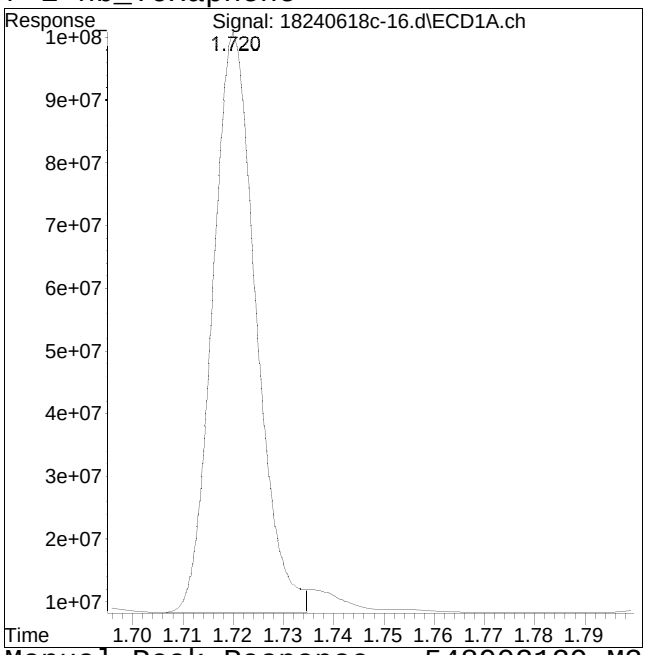
Original Peak Response = 284855760 Manual Peak Response = 275808423 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #33: 1-br-2-nb_Toxaphene



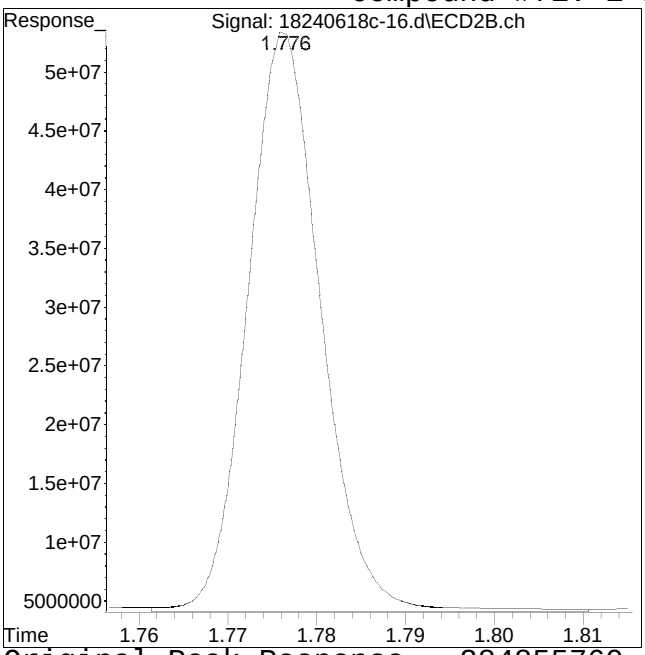


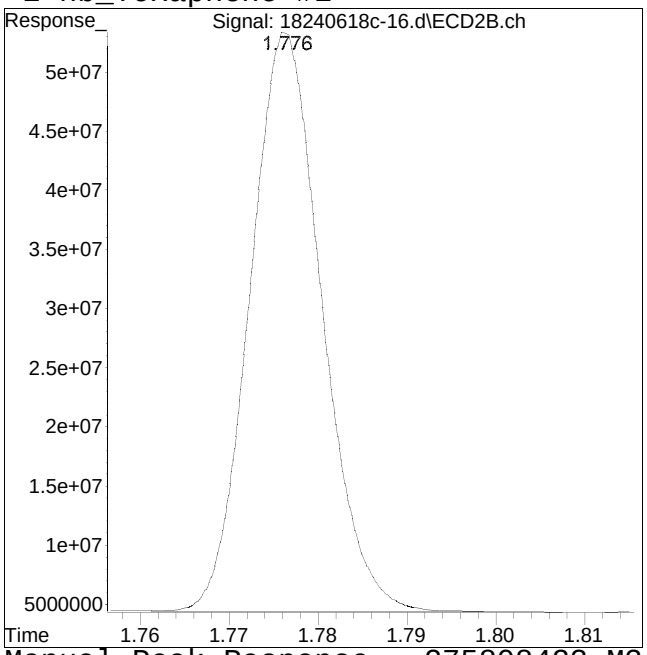
Original Peak Response = 574067474 Manual Peak Response = 548902129 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-16.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:22 Instrument : Pest 18
Sample : L2433035-06,42,, Quant Date : 6/18/2024 3:59 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 284855760 Manual Peak Response = 275808423 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:33
Operator : PEST18:mmg
Sample : L2433035-07,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:24 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.719	1.775	454.7E6	228.9E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 451933897				Recovery = 100.61%		
	Standard Area 1 : #2 = 223085596				Recovery = 102.60%		
28) i	1-br-2-nb_Ch	1.719	1.775	454.7E6	228.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	1.719	1.775	454.7E6	228.9E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.324	673.9E6	341.1E6	37.560M4	37.585M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 75.12%		75.17%
27) s	Decachlorobi	6.959	7.516	701.7E6	339.4E6	46.954M3	52.009M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 93.91%		104.02%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:33
Operator : PEST18:mmg
Sample : L2433035-07,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:24 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

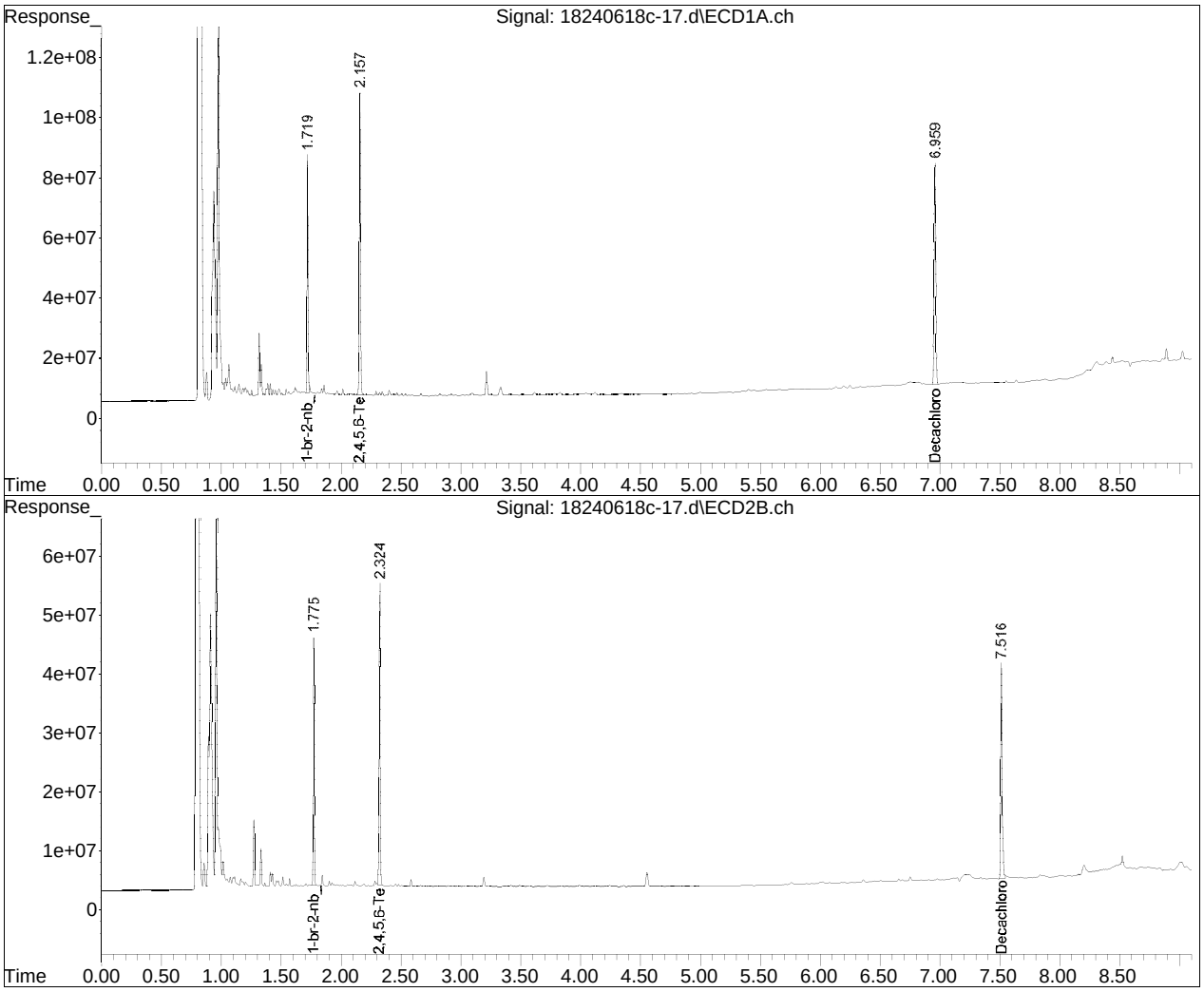
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:33
Operator : PEST18:mmg
Sample : L2433035-07,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:24 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

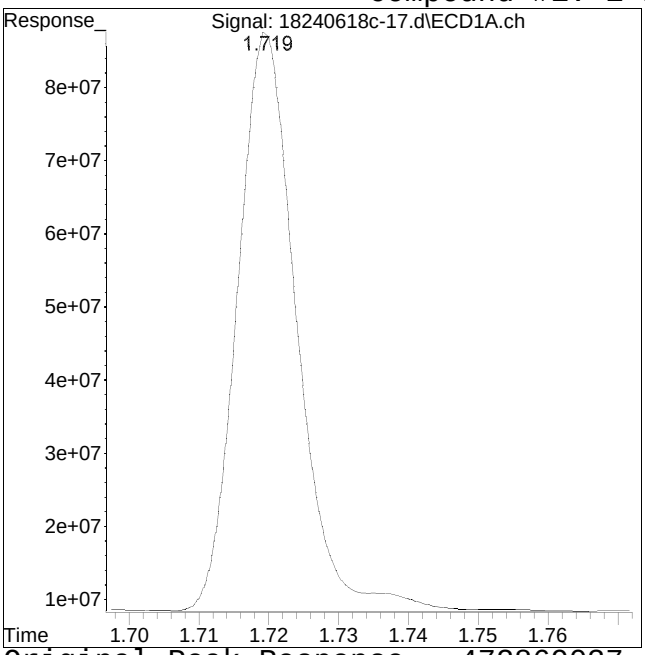
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

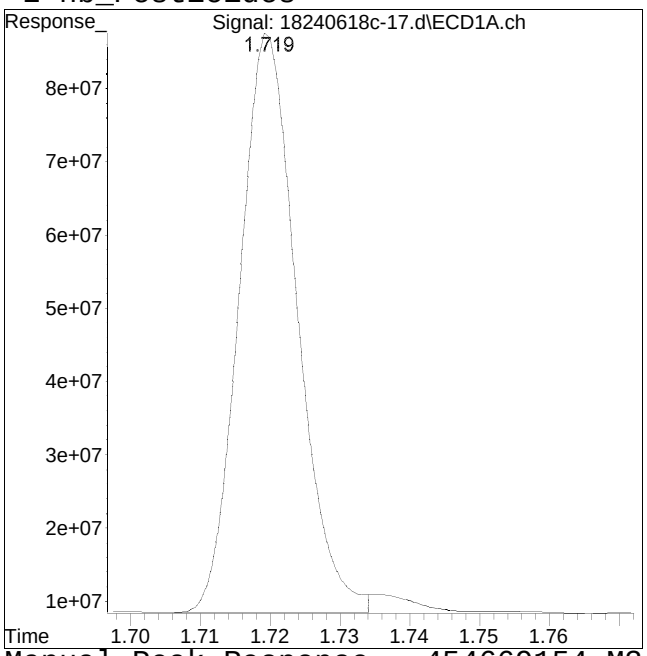


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #1: 1-br-2-nb_Pesticides



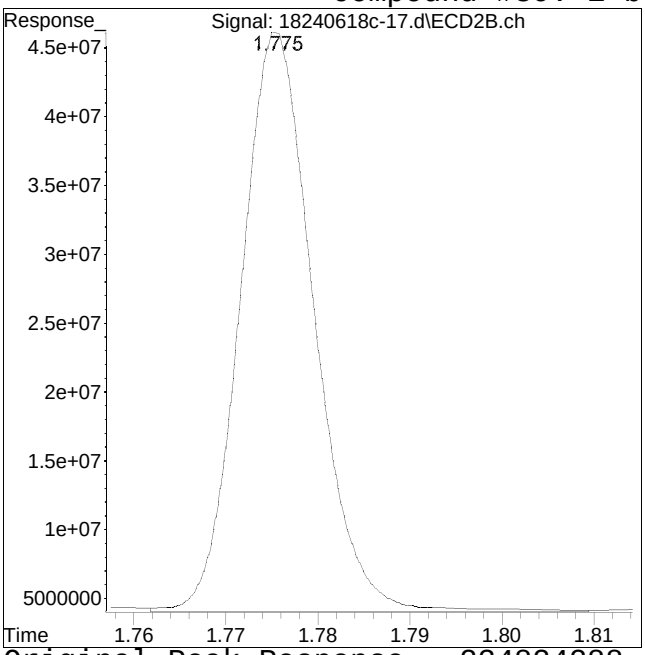


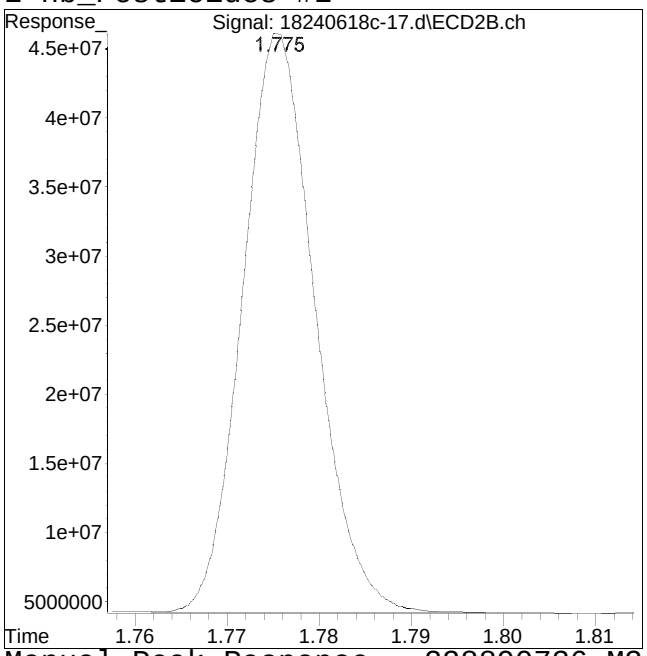
Original Peak Response = 472869037 Manual Peak Response = 454669154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #39: 1-br-2-nb_Pesticides #2



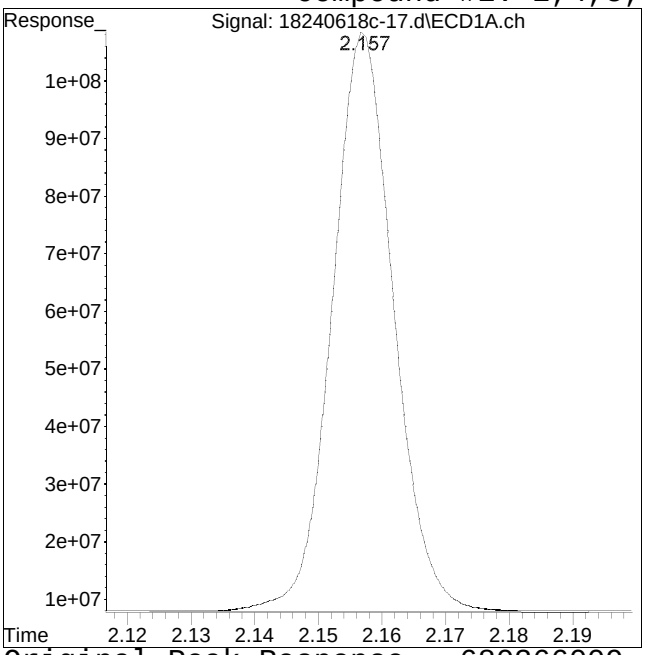


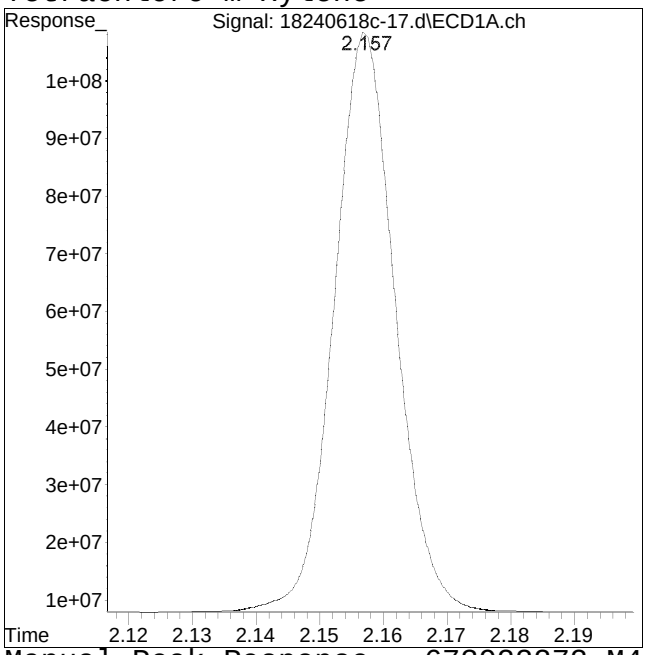
Original Peak Response = 234824288 Manual Peak Response = 228890736 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



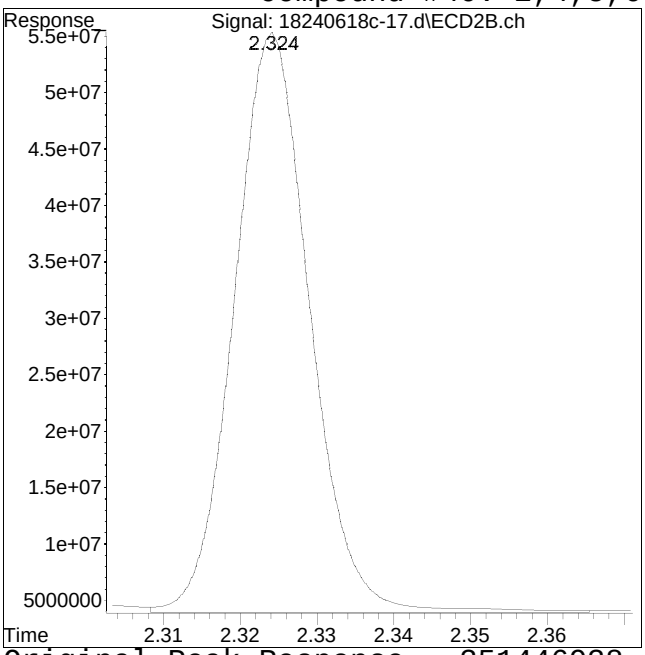


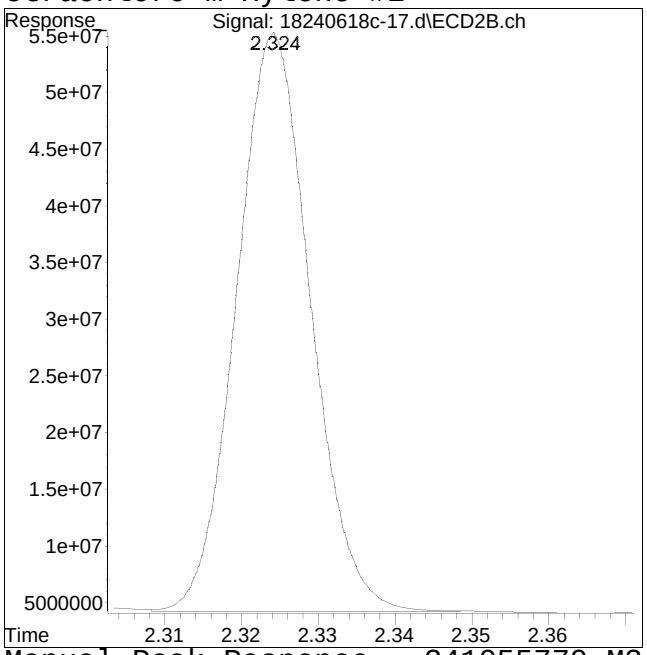
Original Peak Response = 680366009 Manual Peak Response = 673922272 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



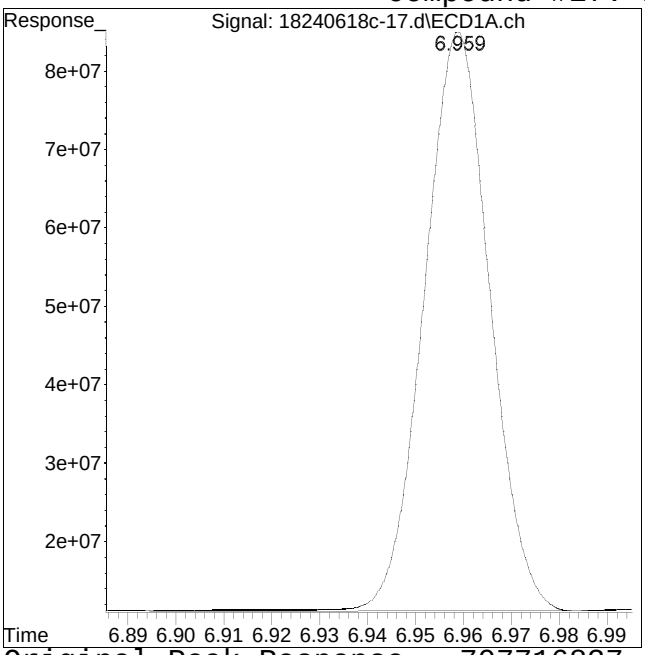


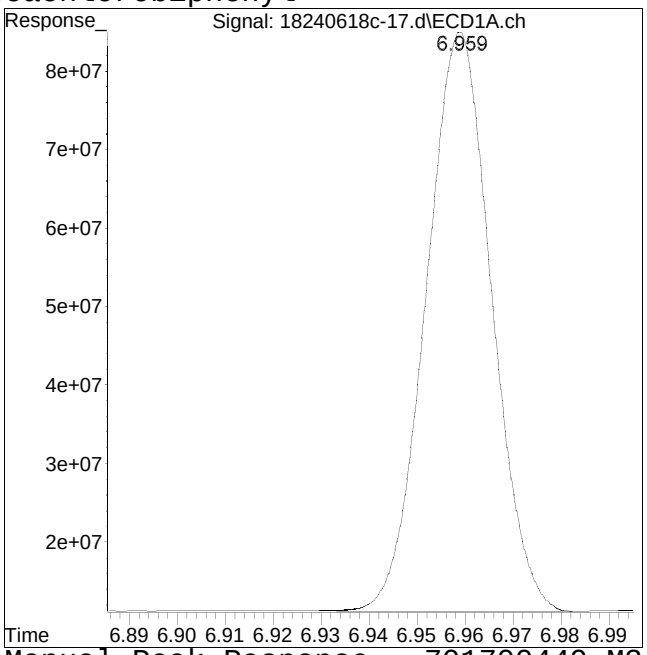
Original Peak Response = 351446938 Manual Peak Response = 341055770 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #27: Decachlorobiphenyl



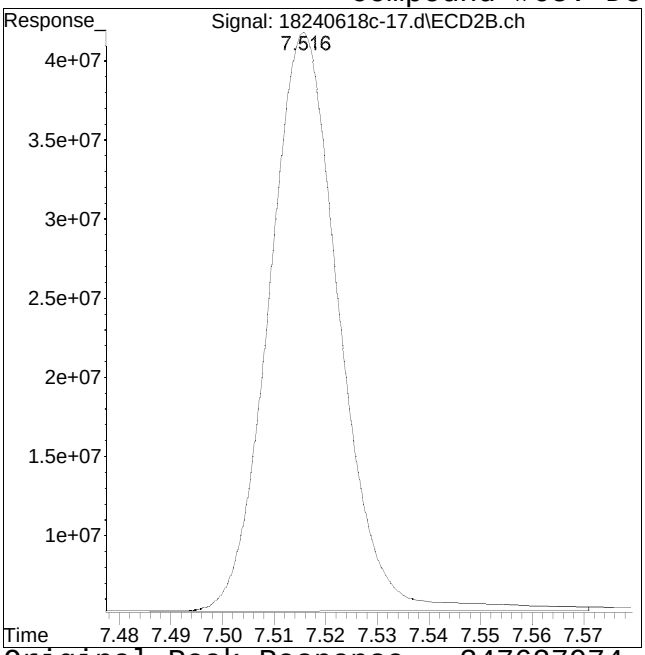


Original Peak Response = 707716837 Manual Peak Response = 701700449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

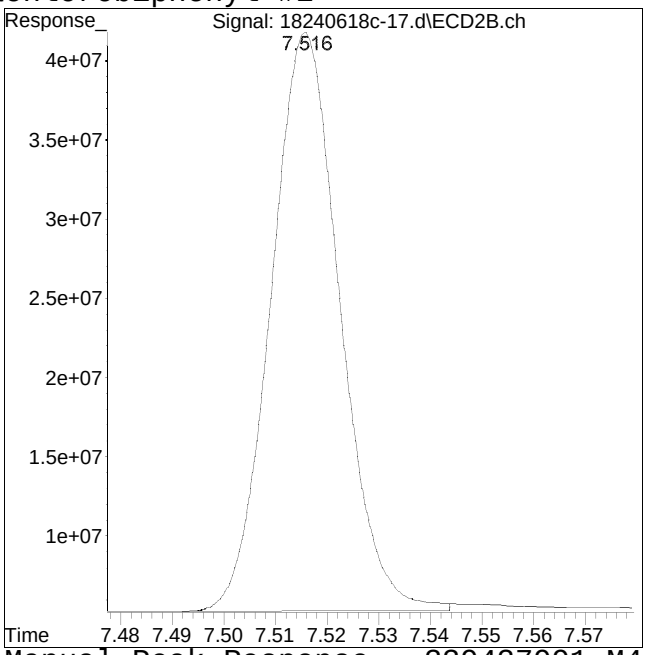
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 347627974



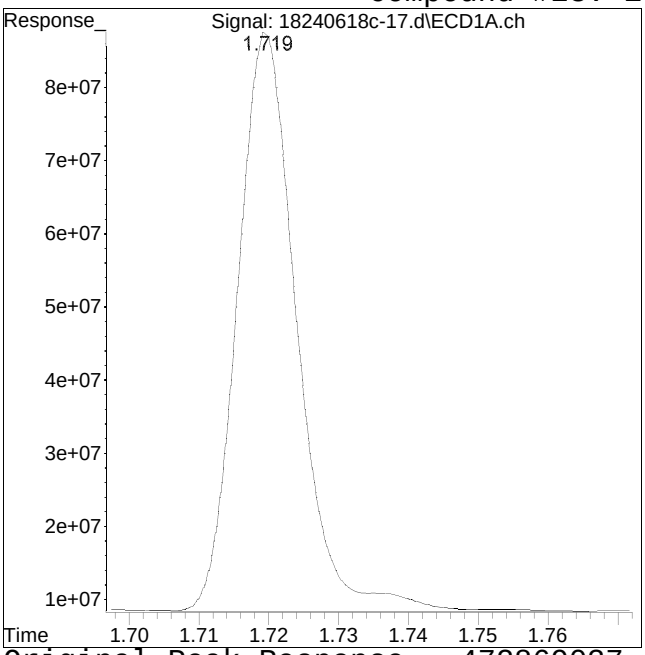
Manual Peak Response = 339437991 M4

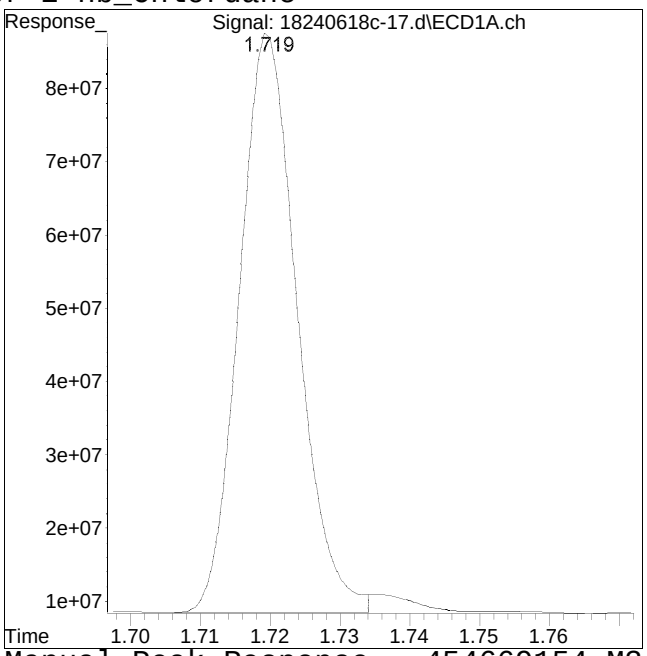
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #28: 1-br-2-nb_Chlordane



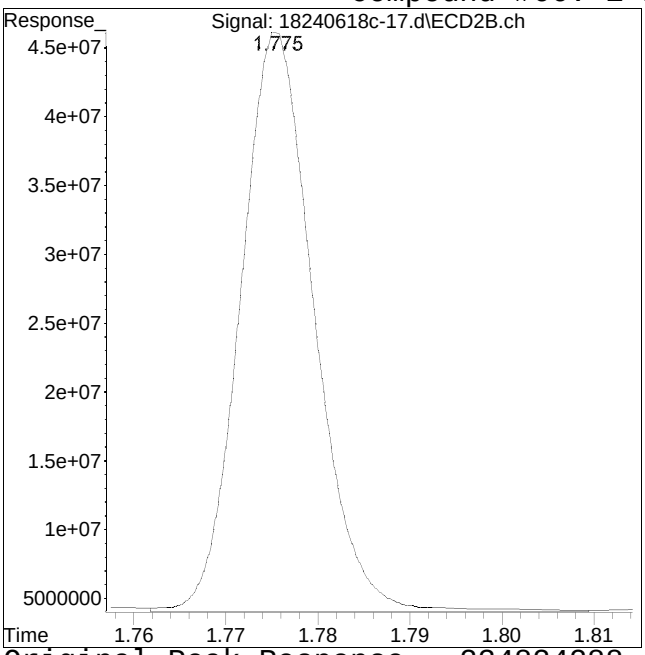


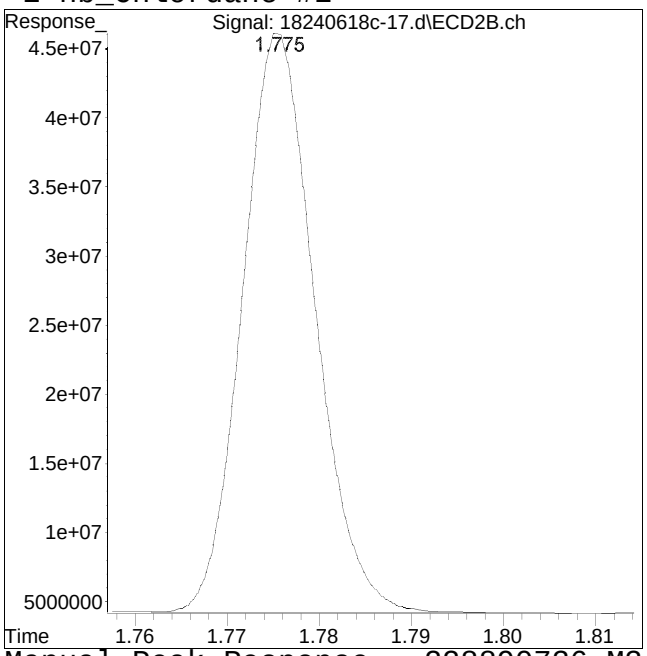
Original Peak Response = 472869037 Manual Peak Response = 454669154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #66: 1-br-2-nb_Chlordane #2



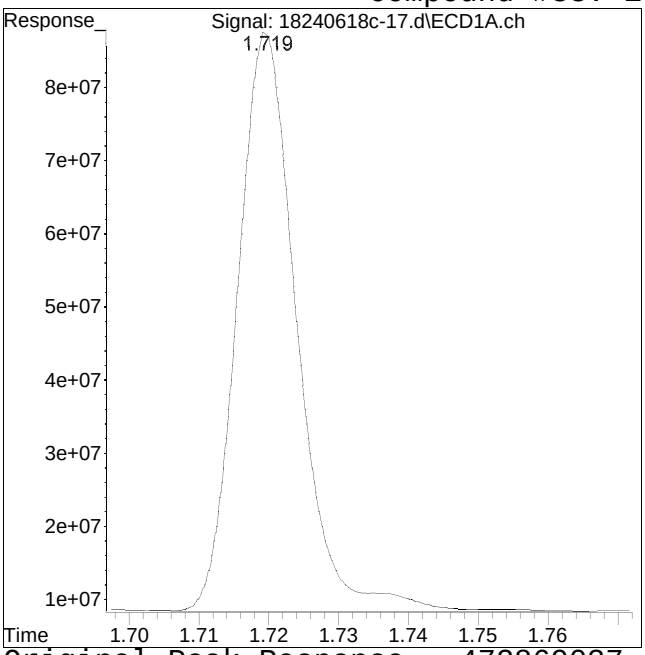


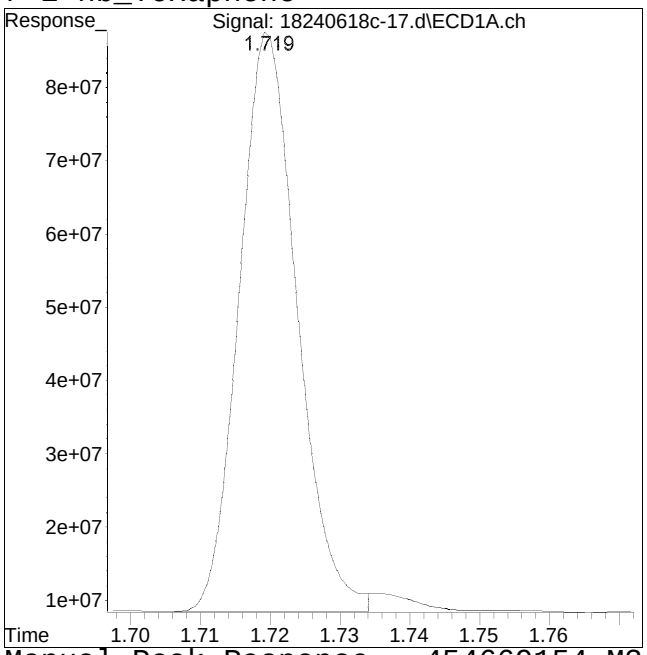
Original Peak Response = 234824288 Manual Peak Response = 228890736 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #33: 1-br-2-nb_Toxaphene



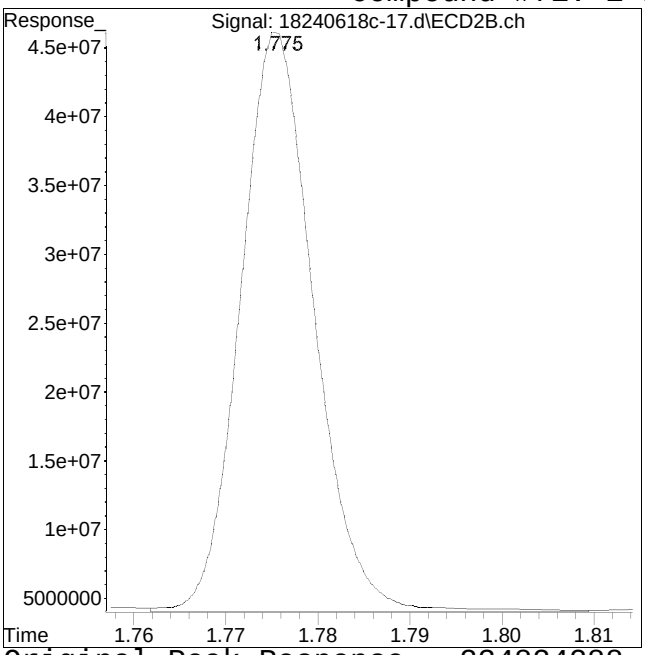


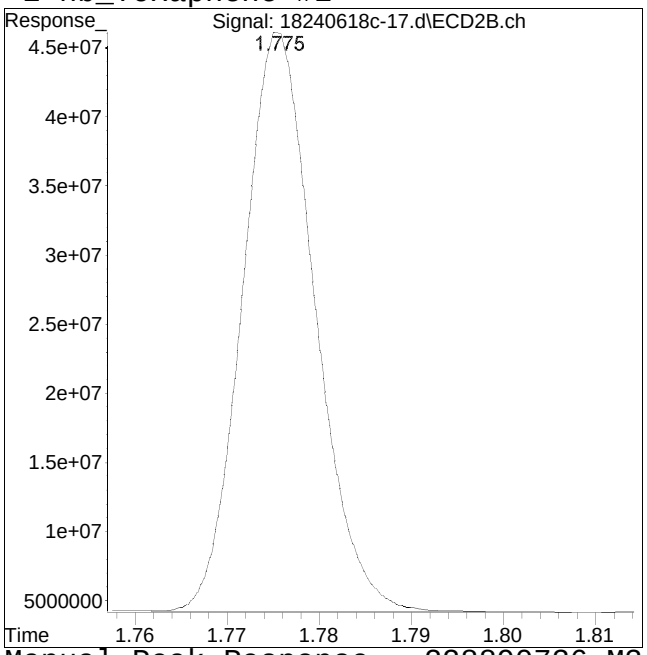
Original Peak Response = 472869037 Manual Peak Response = 454669154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-17.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:33 Instrument : Pest 18
Sample : L2433035-07,42,, Quant Date : 6/18/2024 3:59 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 234824288 Manual Peak Response = 228890736 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:45
Operator : PEST18:mmg
Sample : L2433035-08,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:27 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	461.4E6	232.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 102.09%		
	Standard Area 1 : #2 = 223085596				Recovery = 104.02%		
28) i	1-br-2-nb_Ch	1.720	1.776	461.4E6	232.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.720	1.776	461.4E6	232.0E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.324	662.4E6	332.8E6	36.380M4	36.178M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 72.76%		72.36%
27) s	Decachlorobi	6.958	7.514	663.0E6	324.4E6	43.625M3	48.950M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 87.25%		97.90%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:45
Operator : PEST18:mmg
Sample : L2433035-08,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:27 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

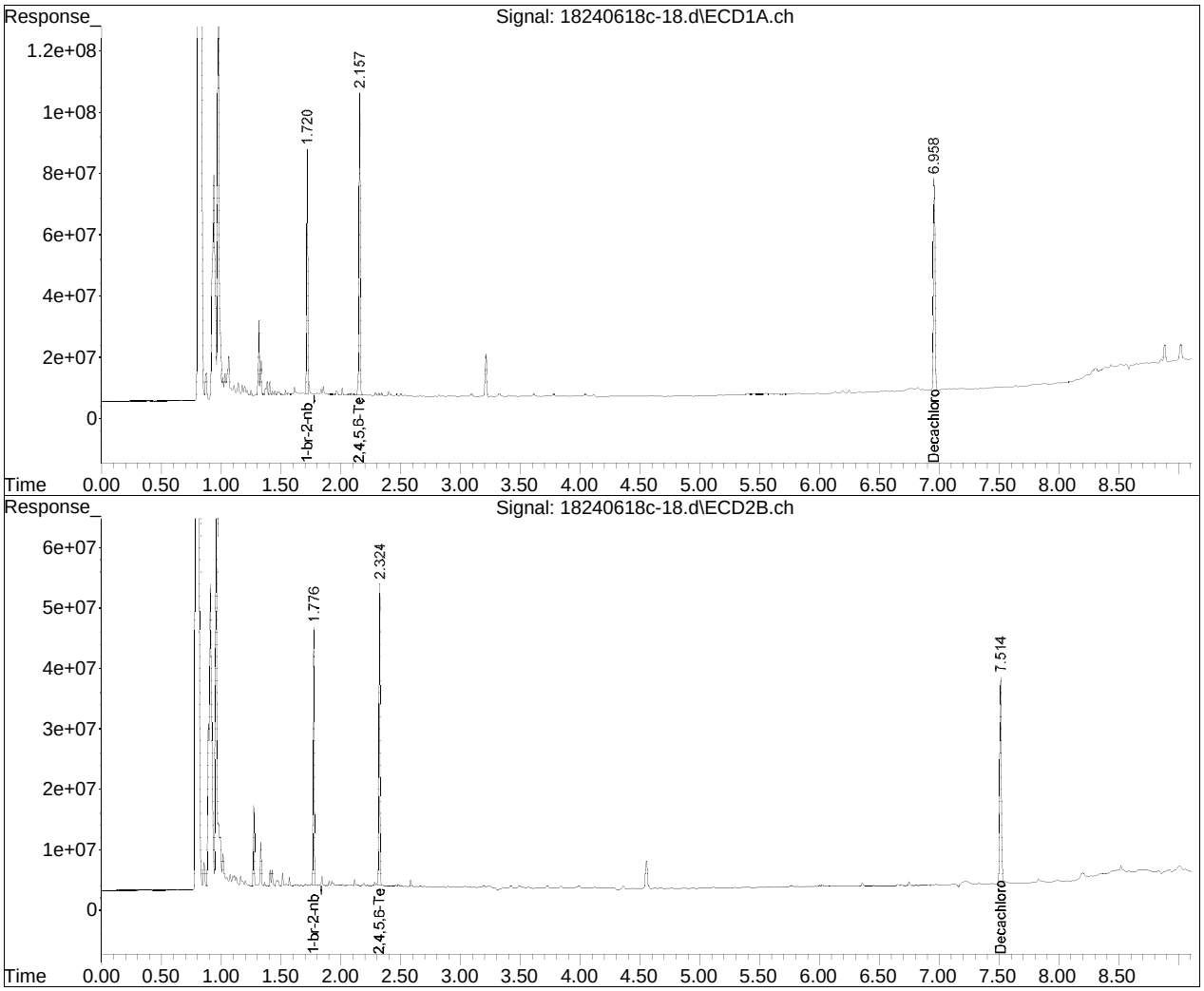
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:45
Operator : PEST18:mmg
Sample : L2433035-08,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:59:27 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

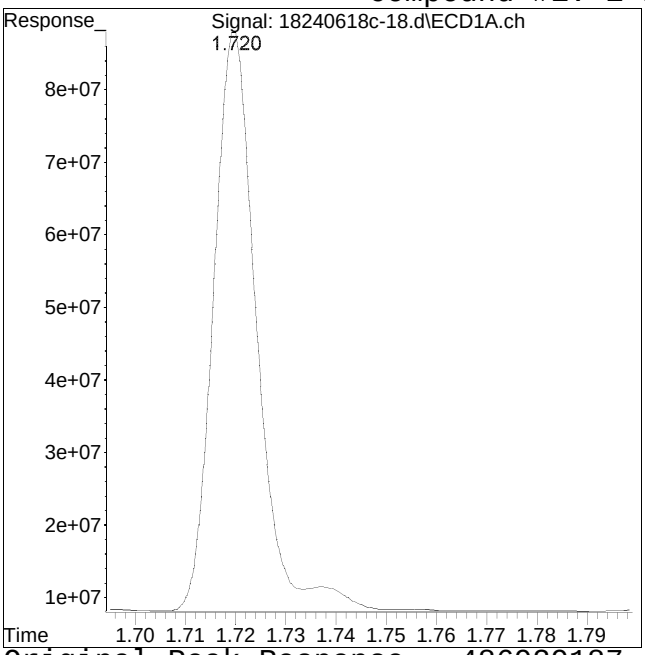


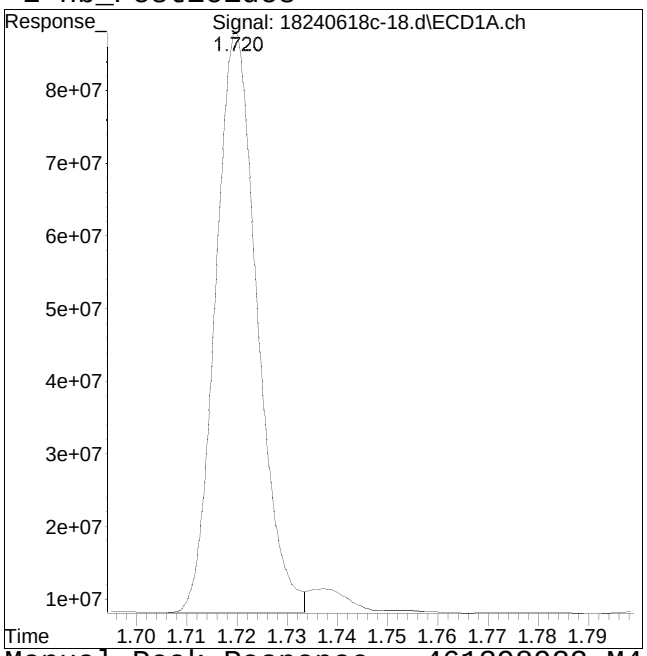
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618Q
Data File : 18240618c-18.d
Date Inj'd : 6/18/2024 15:45
Sample : L2433035-08,42,,

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:mmg
Instrument : Pest 18
Quant Date : 6/18/2024 3:59 pm

Compound #1: 1-br-2-nb_Pesticides



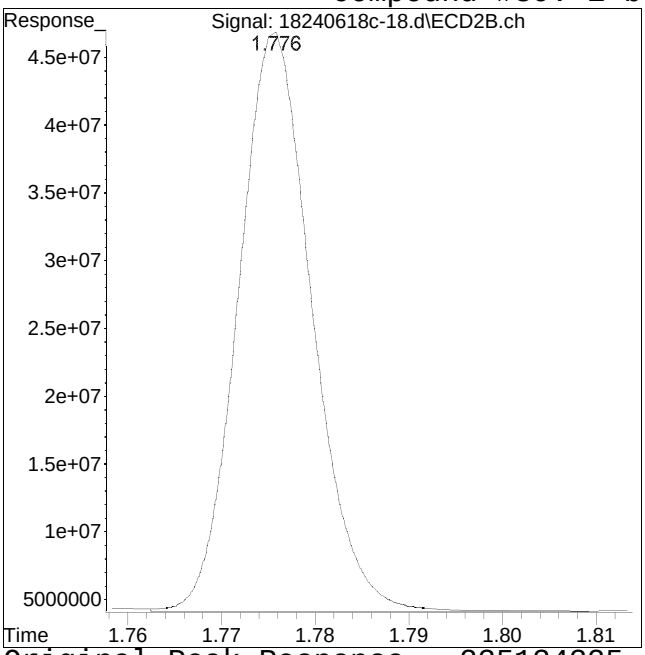


Original Peak Response = 486929187 Manual Peak Response = 461398922 M4
M4 = Poor automated baseline construction.

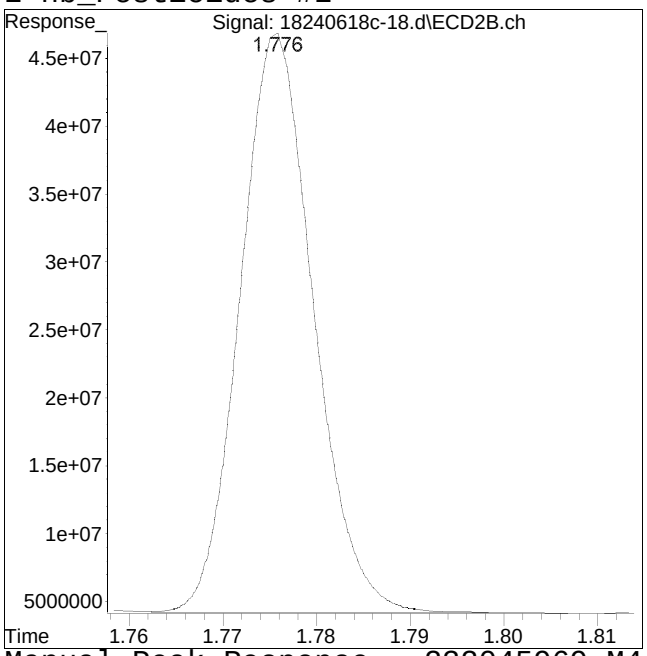
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 235134325



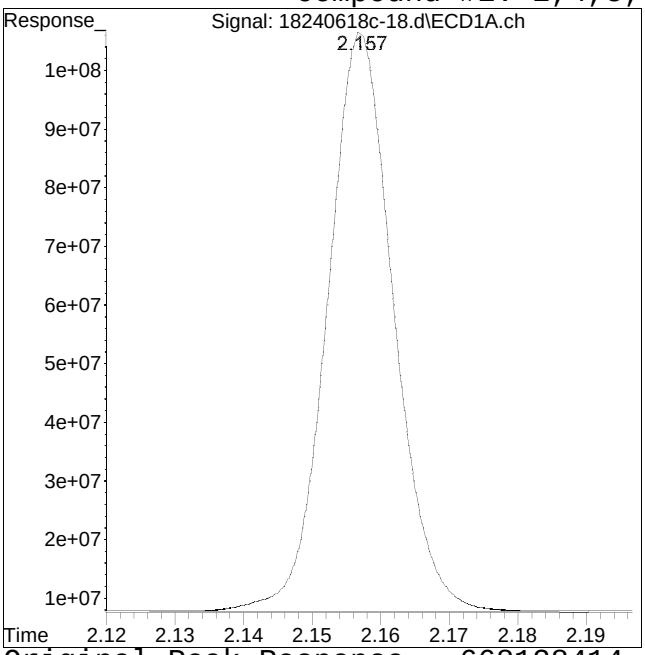
Manual Peak Response = 232045969 M4

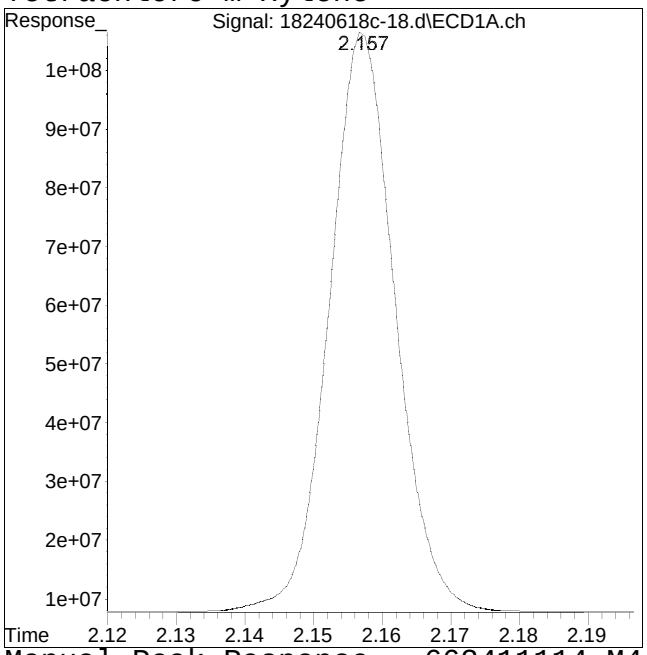
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



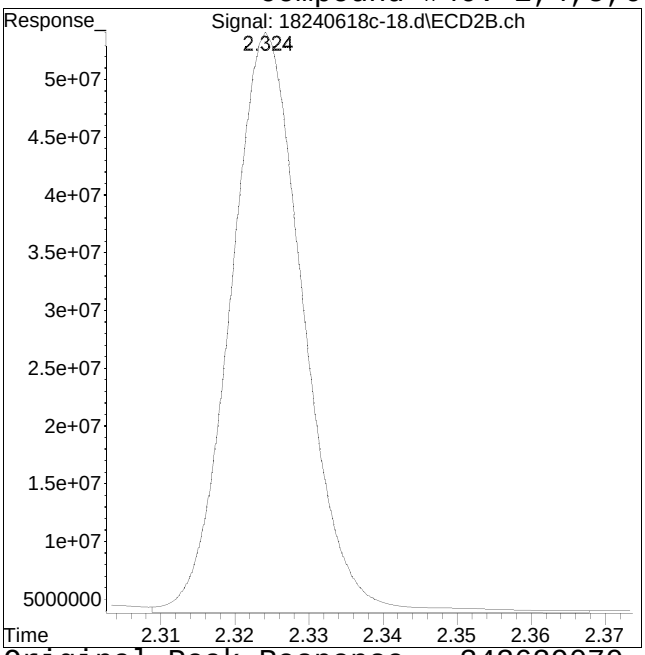


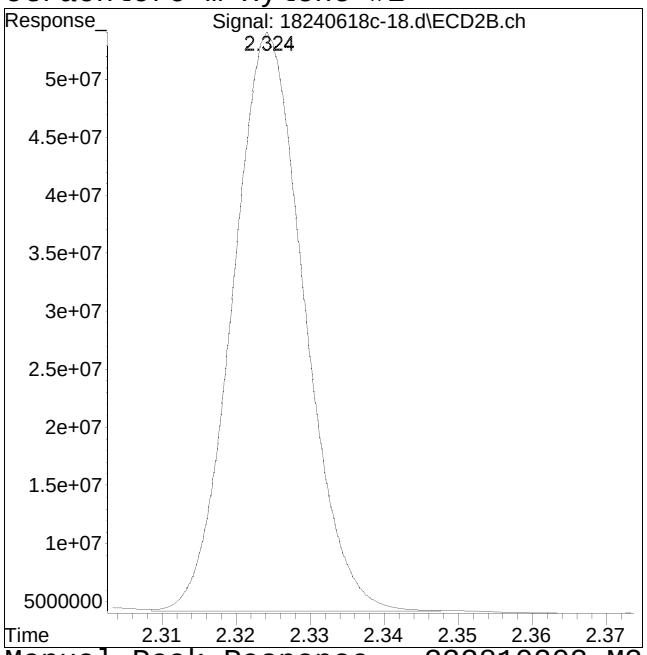
Original Peak Response = 668128414 Manual Peak Response = 662411114 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



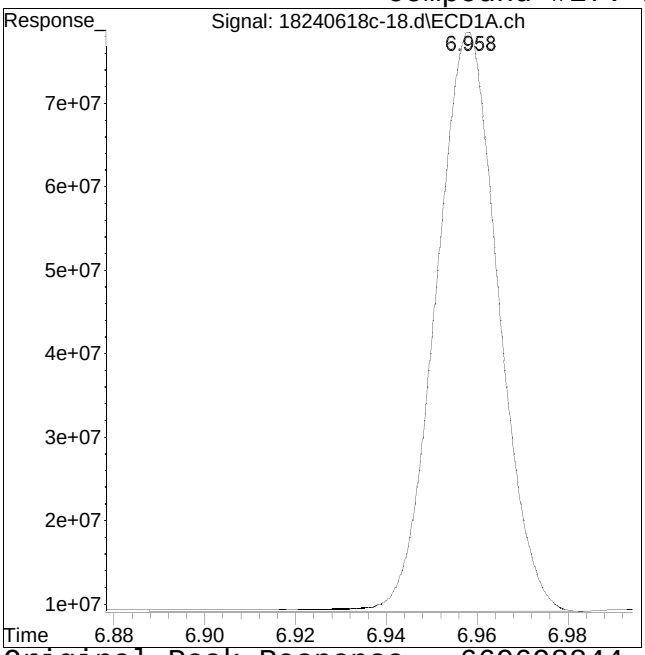


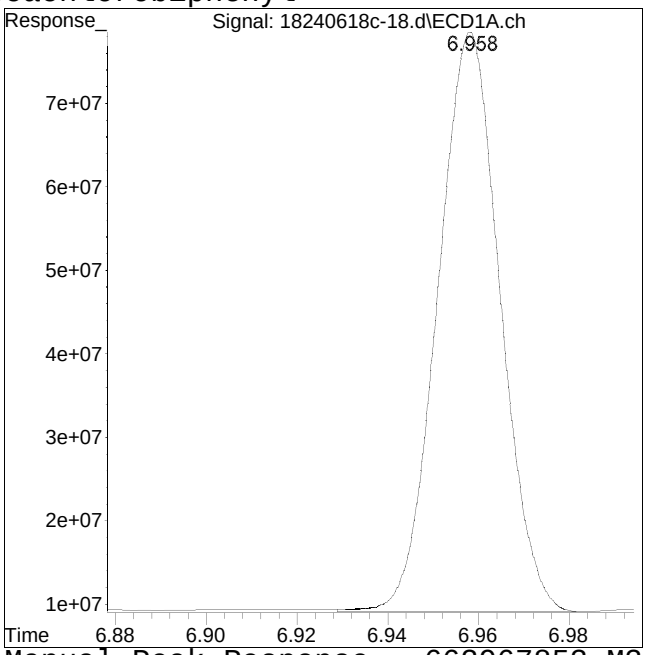
Original Peak Response = 343639070 Manual Peak Response = 332810202 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #27: Decachlorobiphenyl



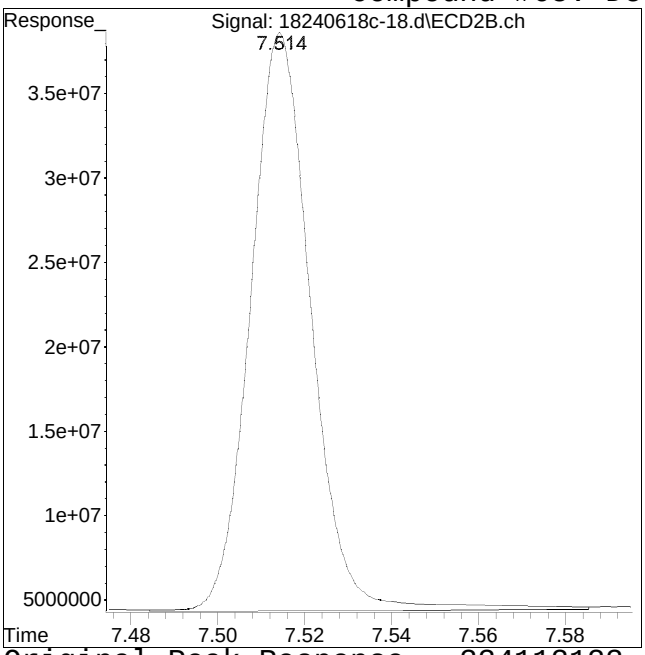


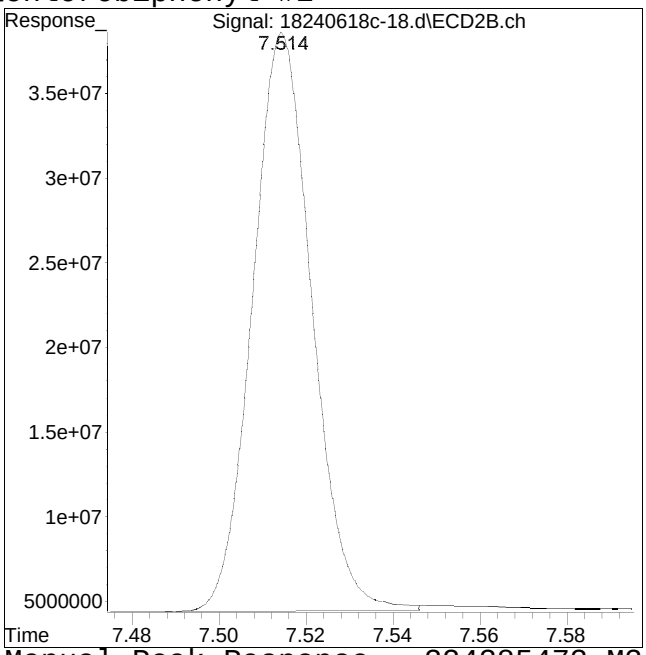
Original Peak Response = 669698844 Manual Peak Response = 662967853 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #65: Decachlorobiphenyl #2



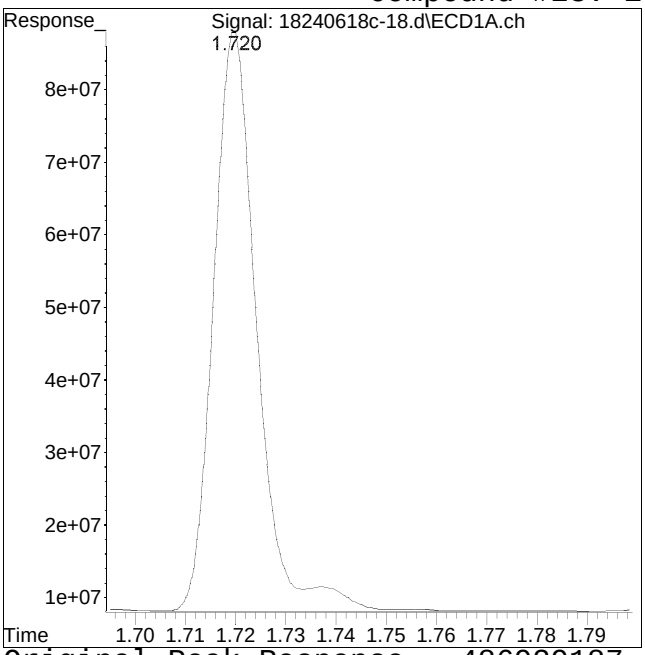


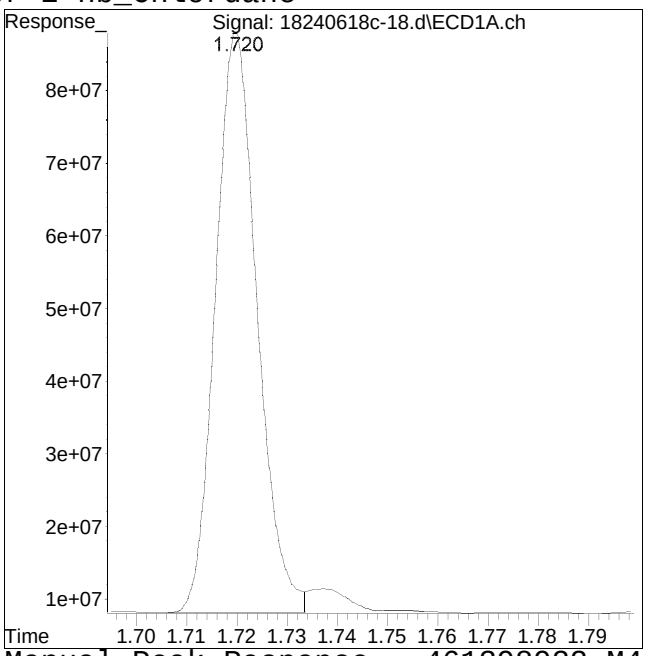
Original Peak Response = 334112123 Manual Peak Response = 324385473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #28: 1-br-2-nb_Chlordane



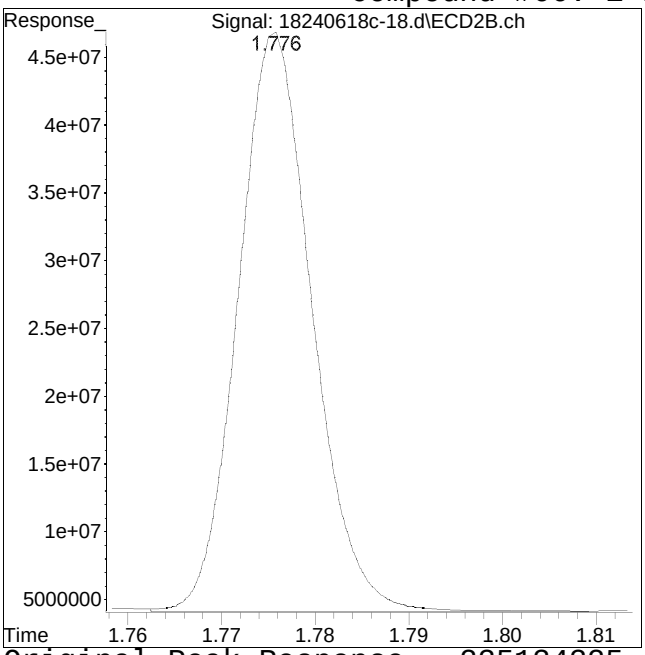


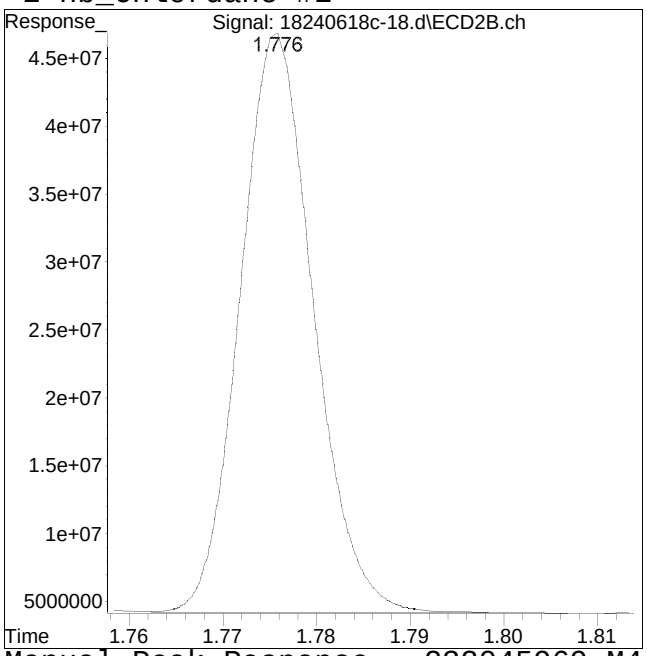
Original Peak Response = 486929187 Manual Peak Response = 461398922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #66: 1-br-2-nb_Chlordane #2



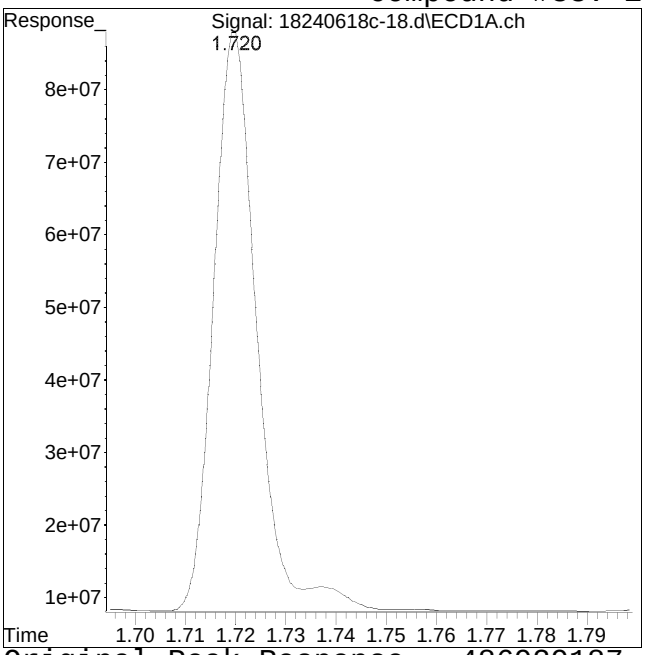


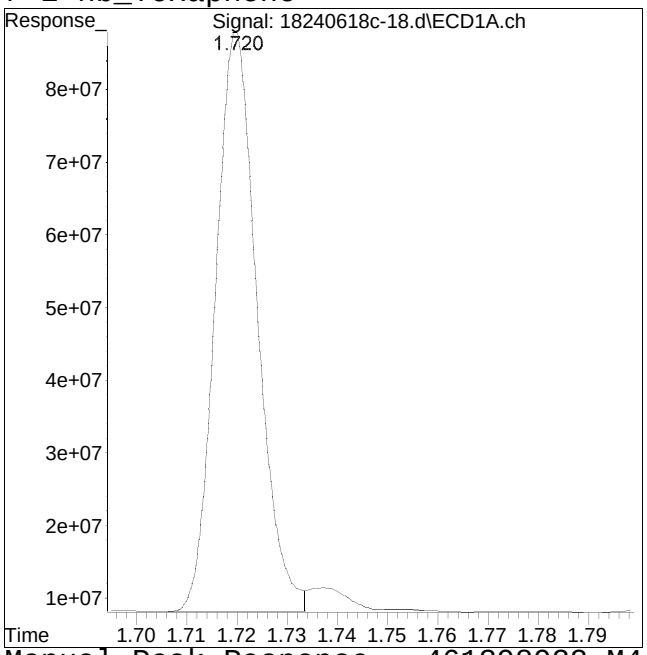
Original Peak Response = 235134325 Manual Peak Response = 232045969 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #33: 1-br-2-nb_Toxaphene



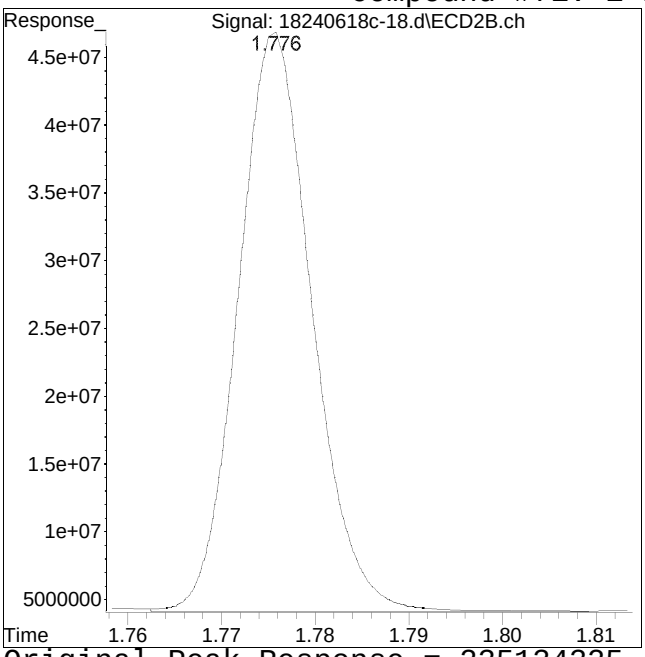


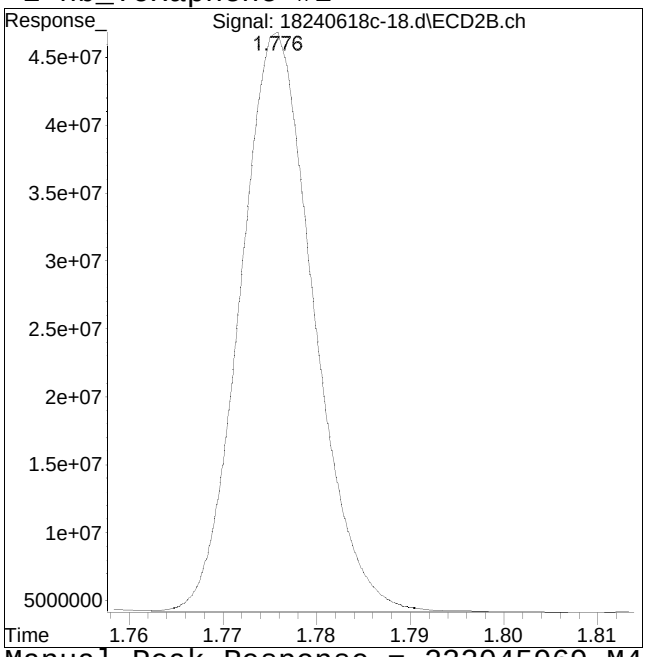
Original Peak Response = 486929187 Manual Peak Response = 461398922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-18.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:45 Instrument : Pest 18
Sample : L2433035-08,42,, Quant Date : 6/18/2024 3:59 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 235134325 Manual Peak Response = 232045969 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:56
Operator : PEST18:mmg
Sample : L2433035-09,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:17 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.719	1.776	466.5E6	233.5E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 103.21%		
	Standard Area 1 : #2 = 223085596				Recovery = 104.66%		
28) i	1-br-2-nb_Ch	1.719	1.776	466.5E6	233.5E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.719	1.776	466.5E6	233.5E6	25.000M3	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.324	655.2E6	333.7E6	35.595M4	36.049M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 71.19%		72.10%
27) s	Decachlorobi	6.958	7.516	568.8E6	268.6E6	36.827M4	40.054M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 73.65%		80.11%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:56
Operator : PEST18:mmg
Sample : L2433035-09,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:17 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

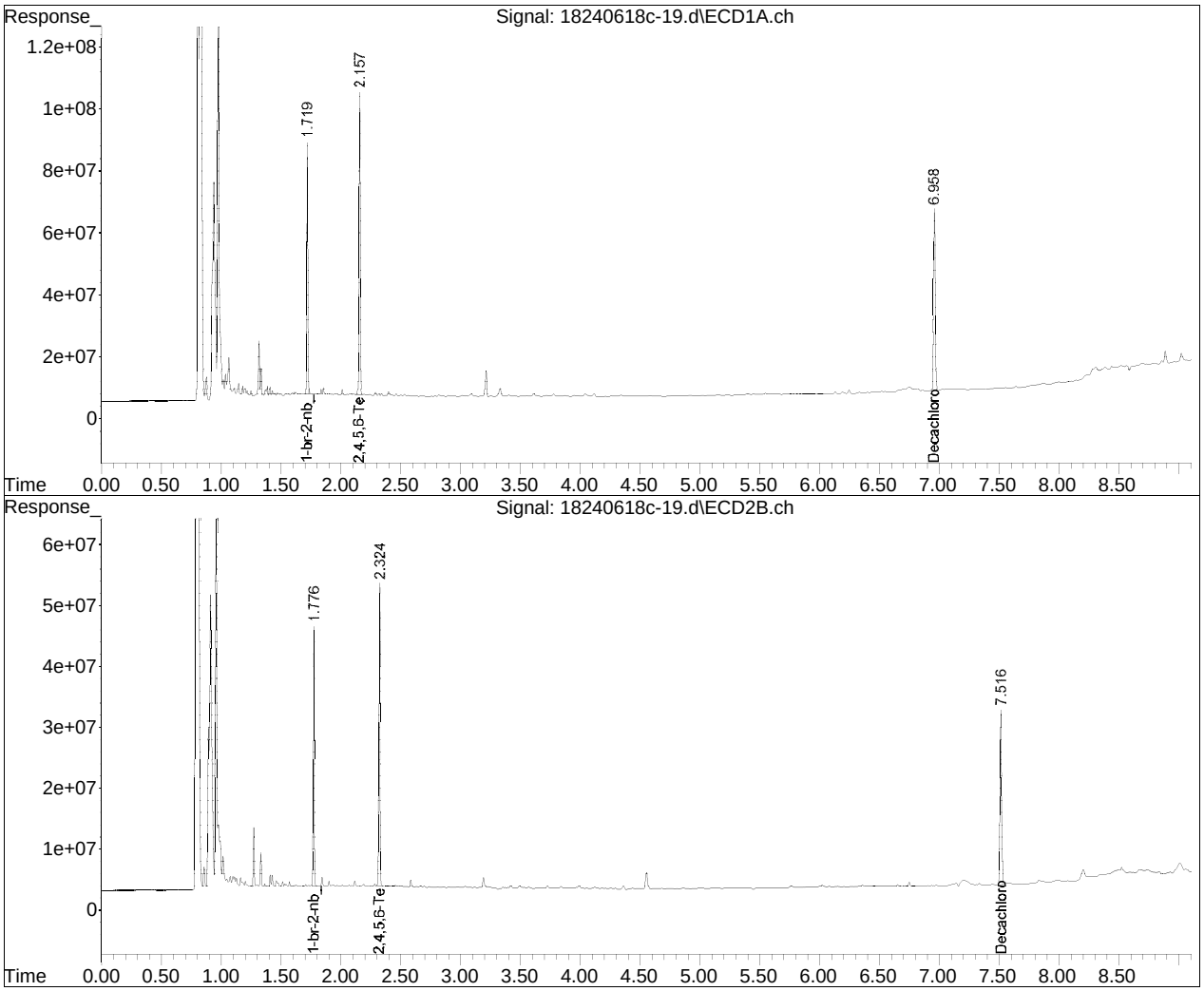
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 15:56
Operator : PEST18:mmg
Sample : L2433035-09,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:17 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

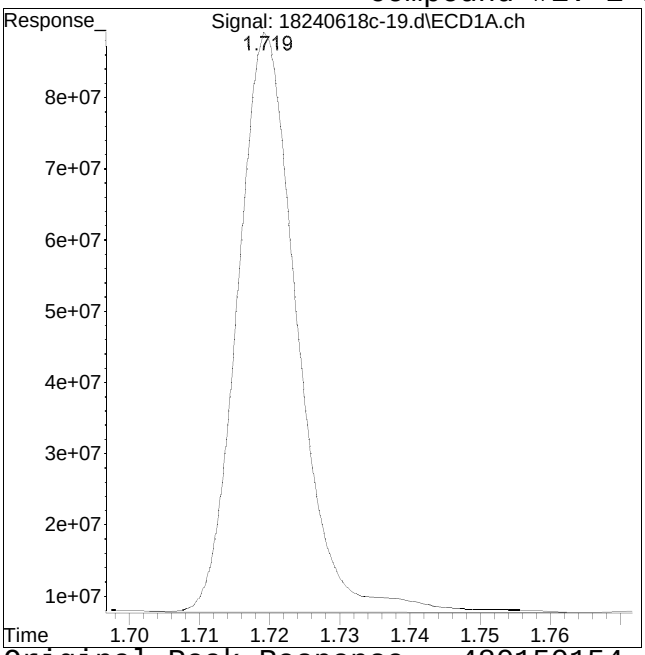
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

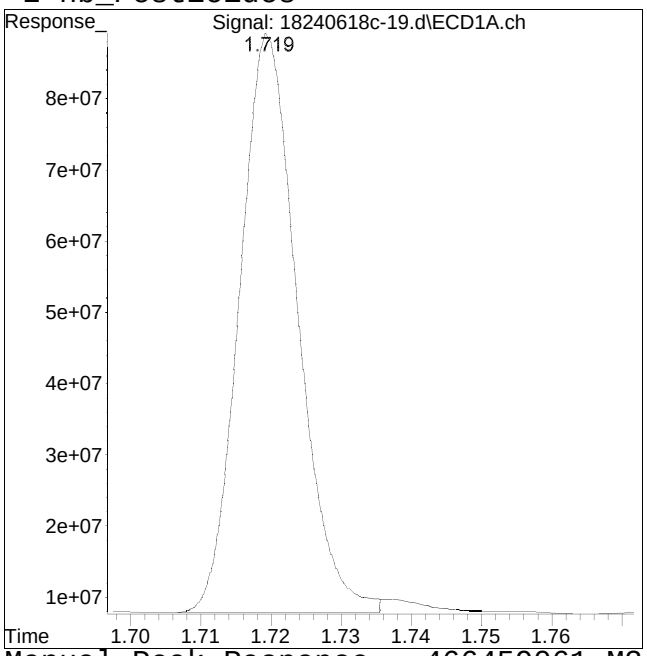


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #1: 1-br-2-nb_Pesticides



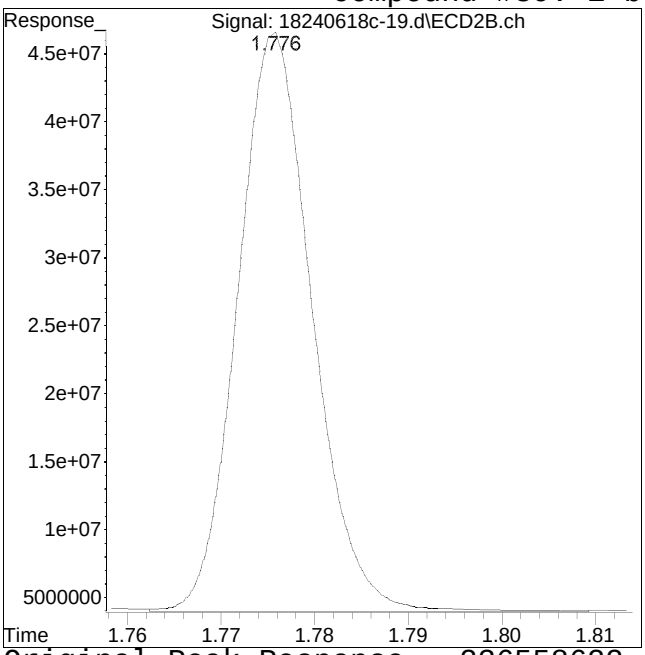


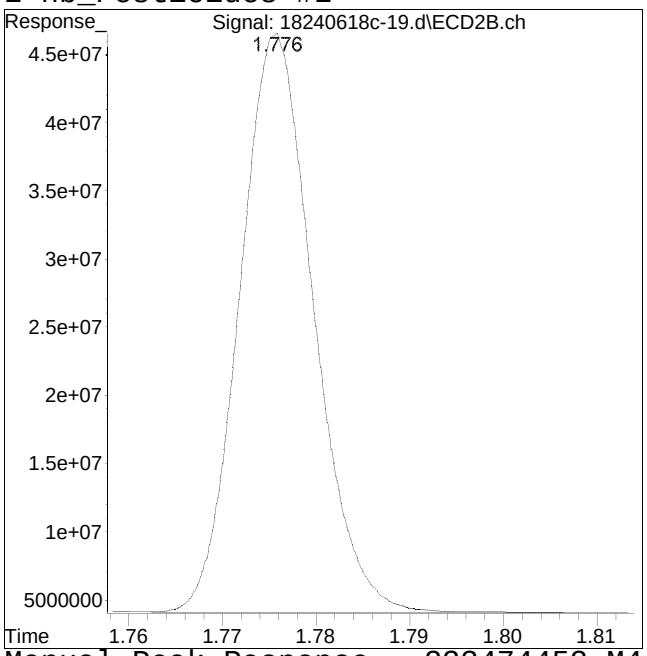
Original Peak Response = 480150154 Manual Peak Response = 466459061 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #39: 1-br-2-nb_Pesticides #2



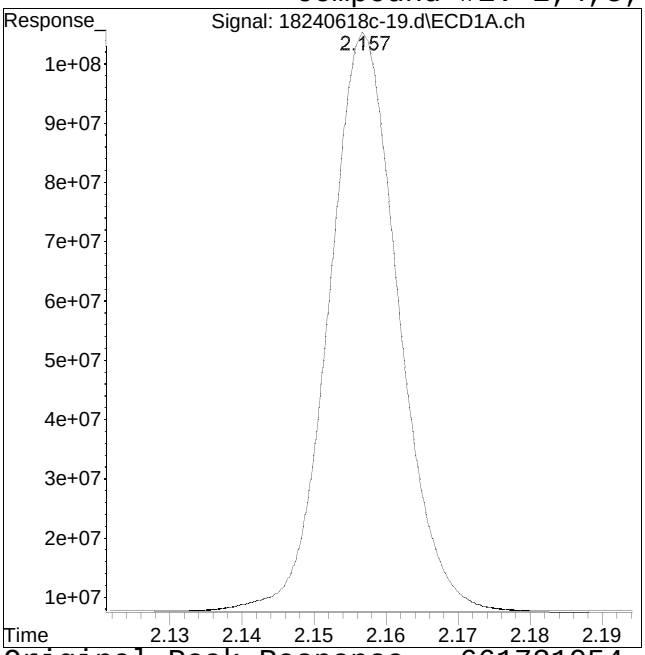


Original Peak Response = 236558622 Manual Peak Response = 233474452 M4
M4 = Poor automated baseline construction.

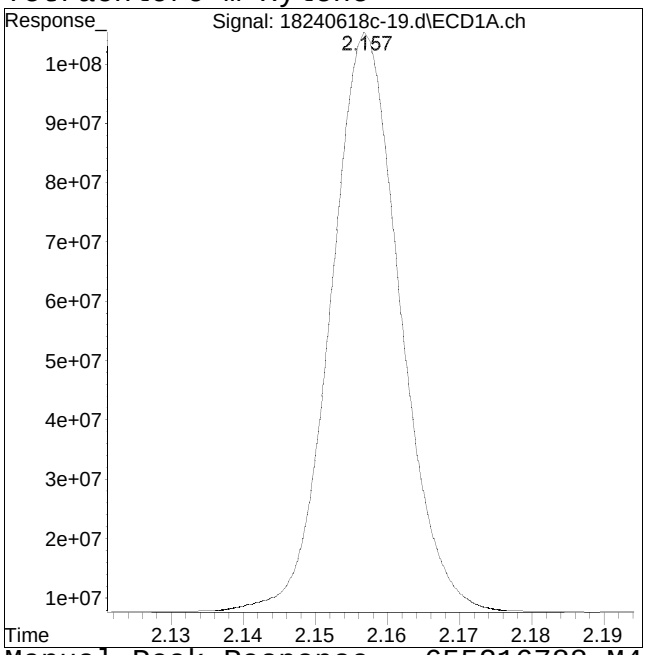
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 661731954



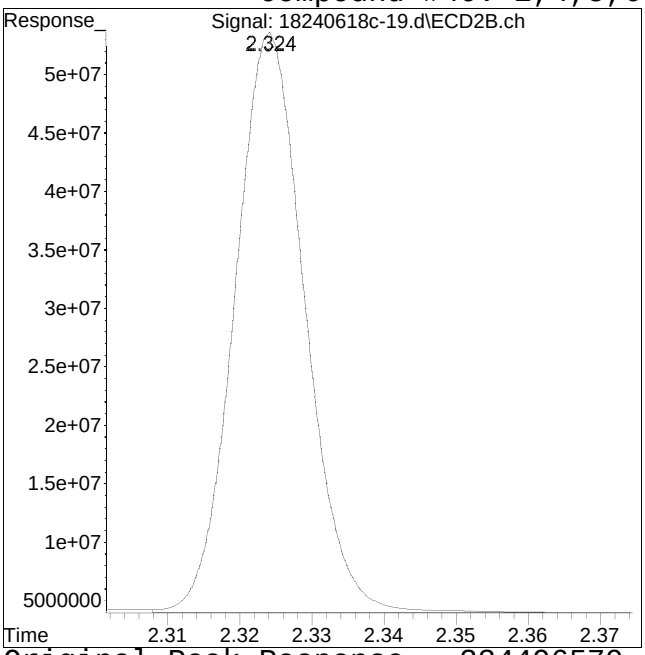
Manual Peak Response = 655216788 M4

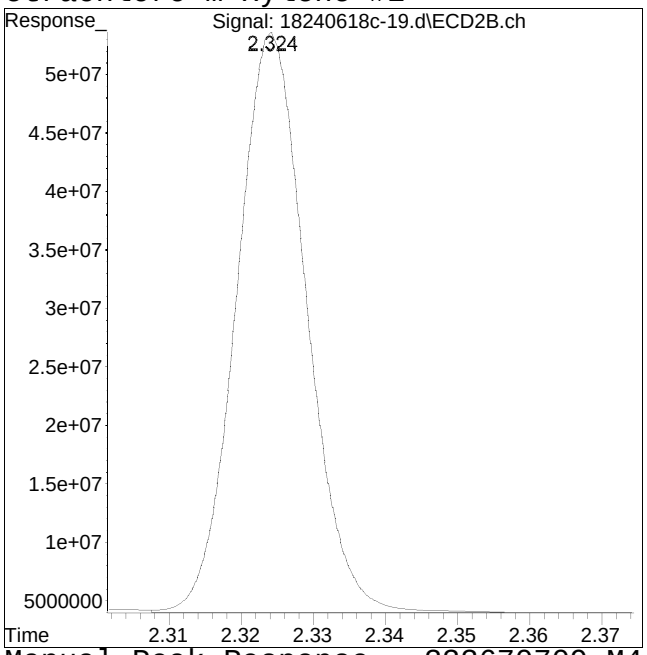
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



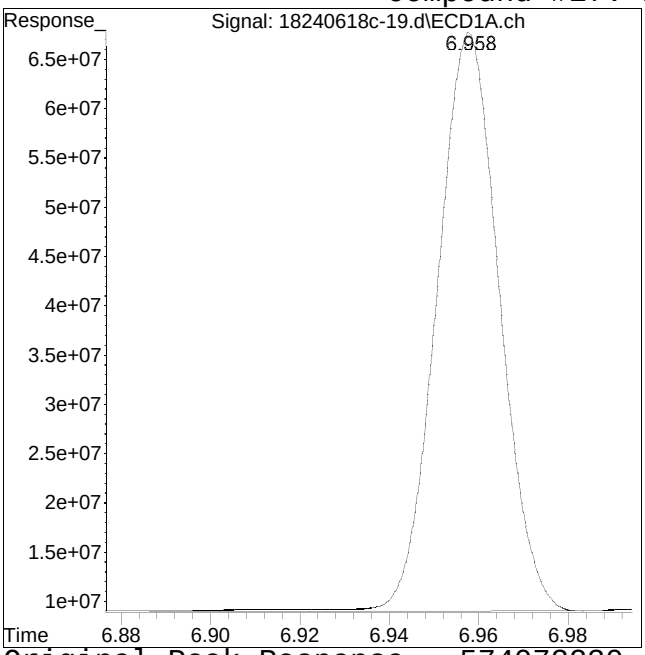


Original Peak Response = 334496579 Manual Peak Response = 333670709 M4
M4 = Poor automated baseline construction.

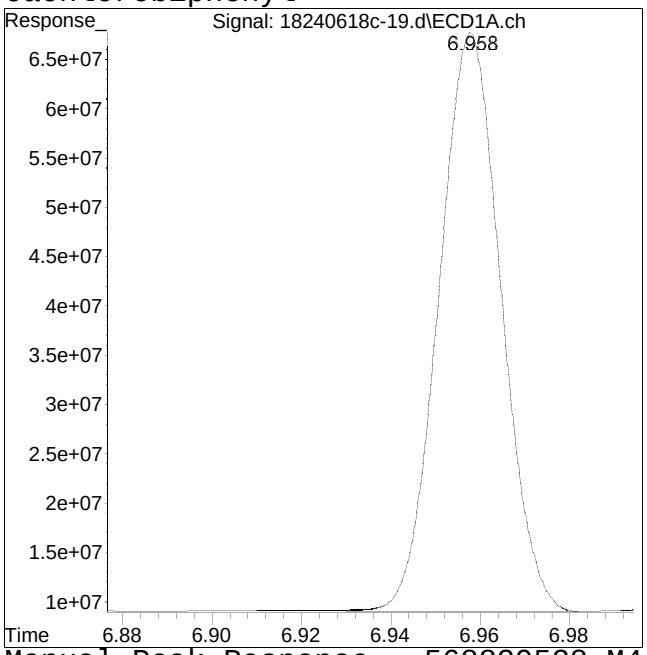
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 574072230



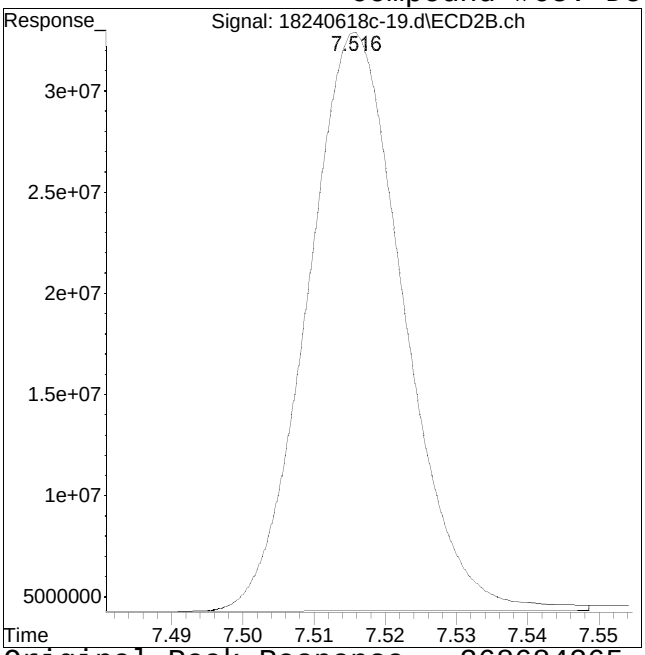
Manual Peak Response = 568829528 M4

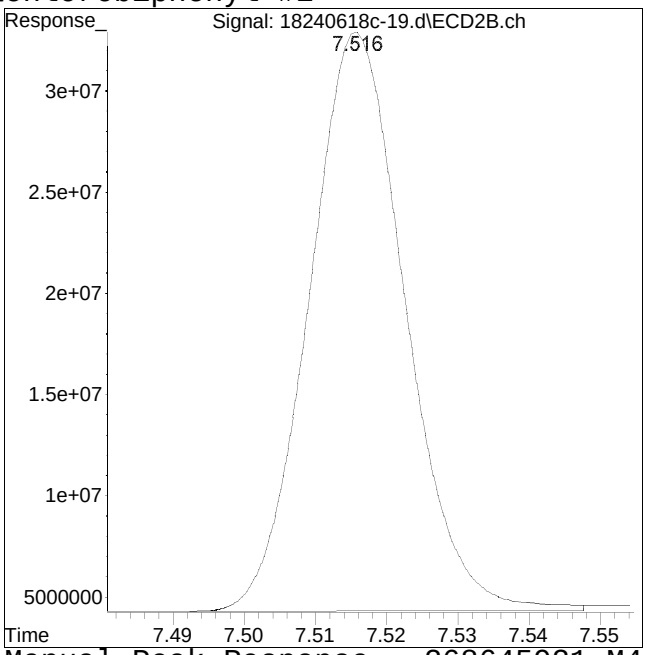
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #65: Decachlorobiphenyl #2



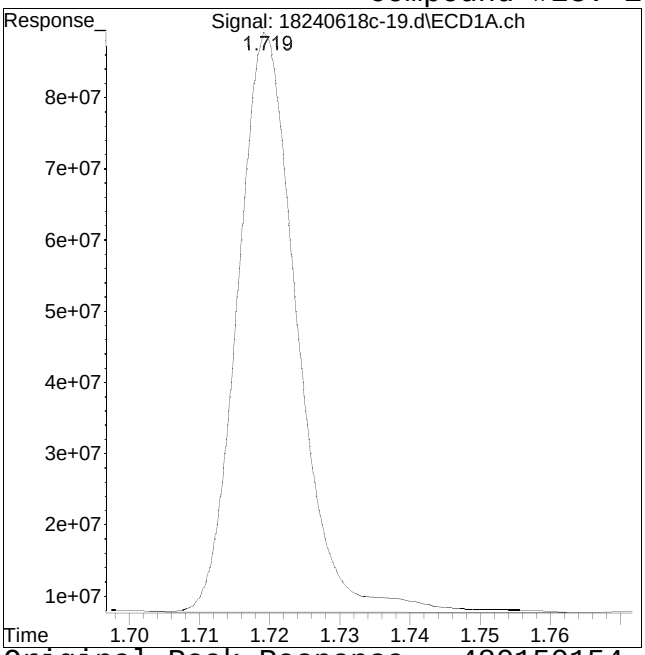


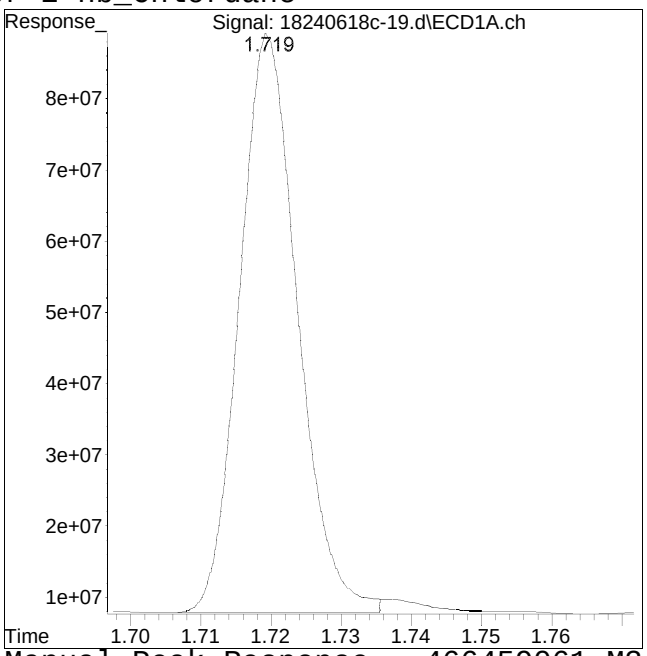
Original Peak Response = 268684265 Manual Peak Response = 268645921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #28: 1-br-2-nb_Chlordane



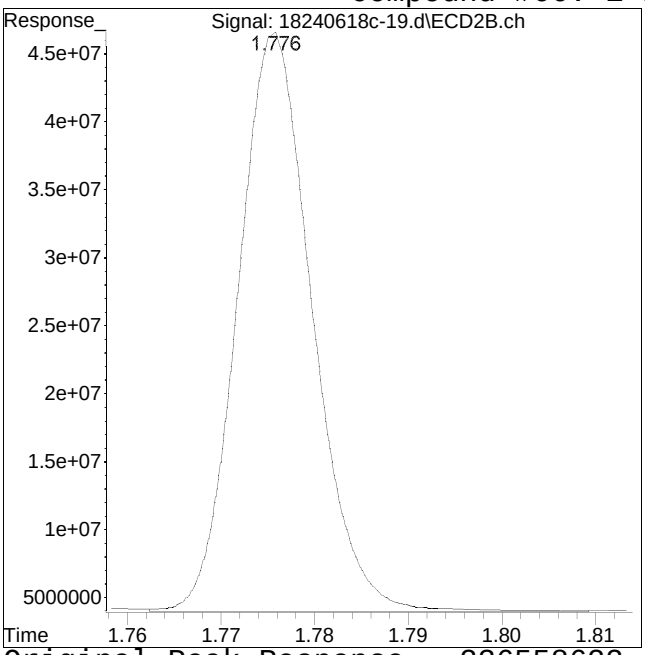


Original Peak Response = 480150154 Manual Peak Response = 466459061 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

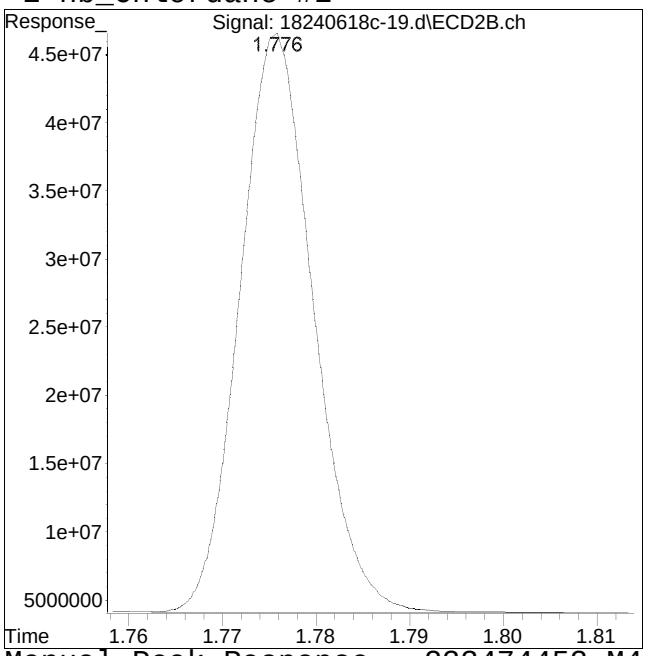
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 236558622



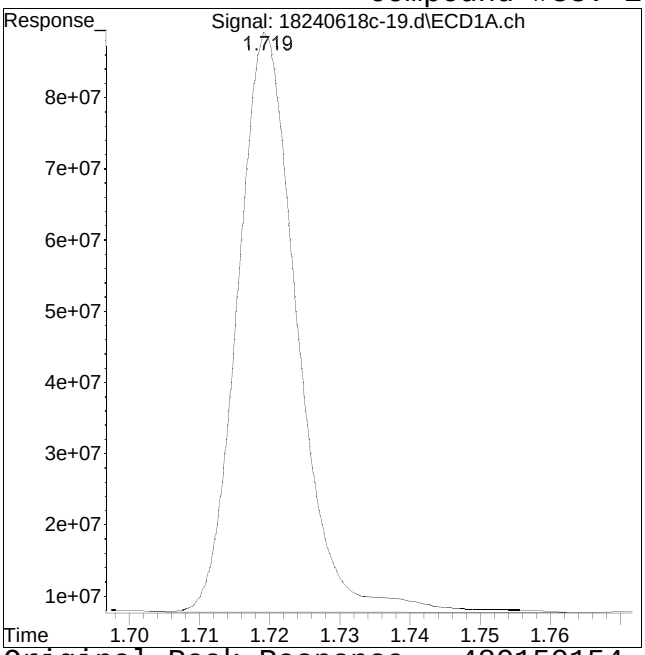
Manual Peak Response = 233474452 M4

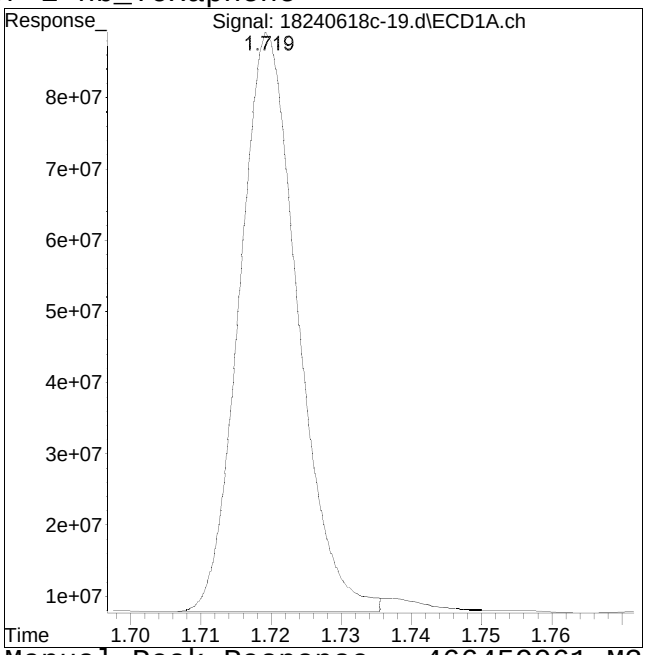
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #33: 1-br-2-nb_Toxaphene



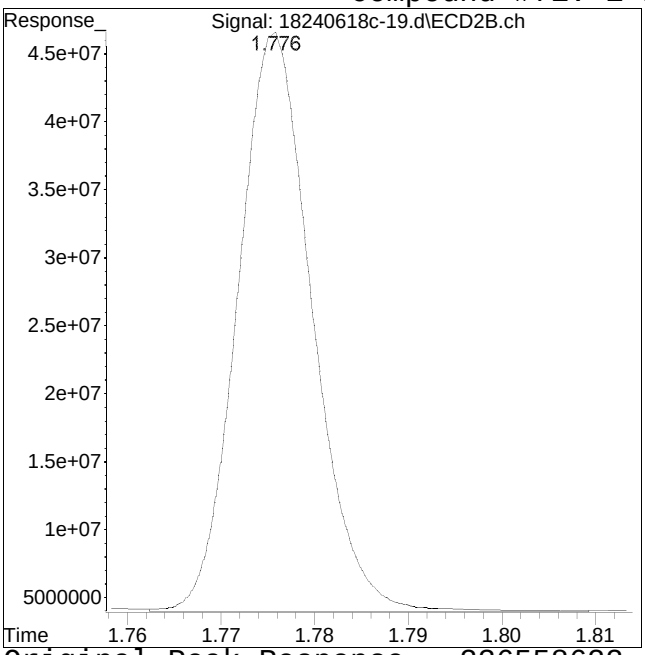


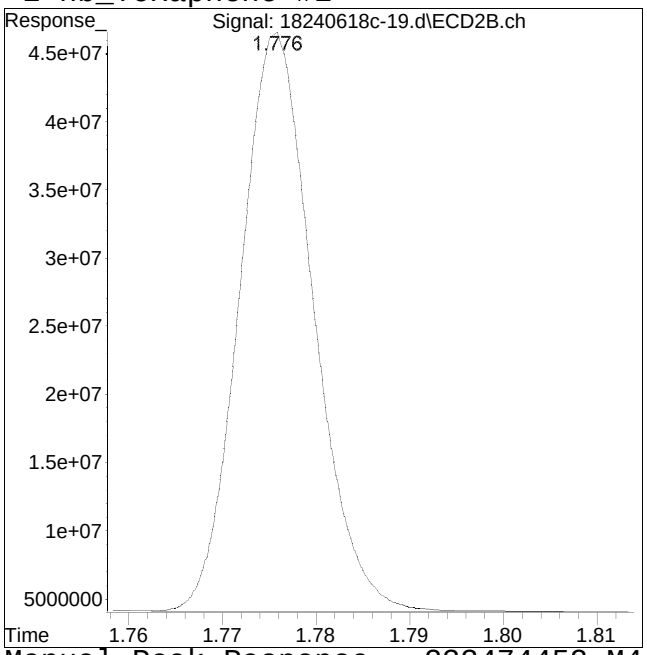
Original Peak Response = 480150154 Manual Peak Response = 466459061 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-19.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 15:56 Instrument : Pest 18
Sample : L2433035-09,42,, Quant Date : 6/18/2024 8:37 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 236558622 Manual Peak Response = 233474452 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 16:08
Operator : PEST18:mmg
Sample : L2433035-10,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.719	1.775	476.8E6	237.7E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 451933897				Recovery = 105.50%		
	Standard Area 1 : #2 = 223085596				Recovery = 106.56%		
28) i	1-br-2-nb_Ch	1.719	1.775	476.8E6	237.7E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.719	1.775	476.8E6	237.7E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.324	665.2E6	339.5E6	35.357M4	36.026M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 70.71%		72.05%
27) s	Decachlorobi	6.958	7.515	667.7E6	313.3E6	42.487M4	46.069M3
	Spiked Amount 50.000	Range 30 - 150			Recovery = 84.97%		92.14%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 16:08
Operator : PEST18:mmg
Sample : L2433035-10,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

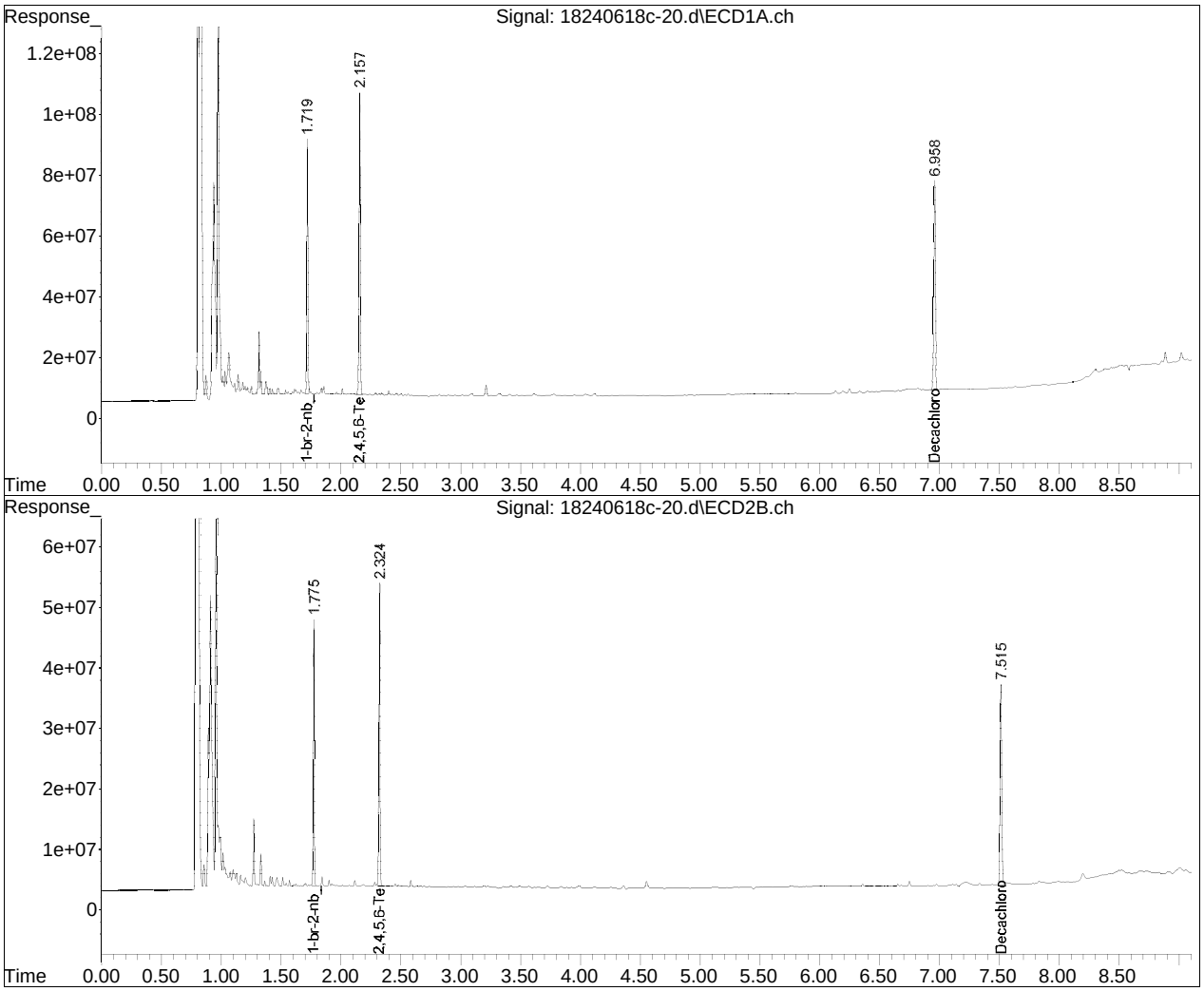
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedC\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 16:08
Operator : PEST18:mmg
Sample : L2433035-10,42,,
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 20:37:19 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

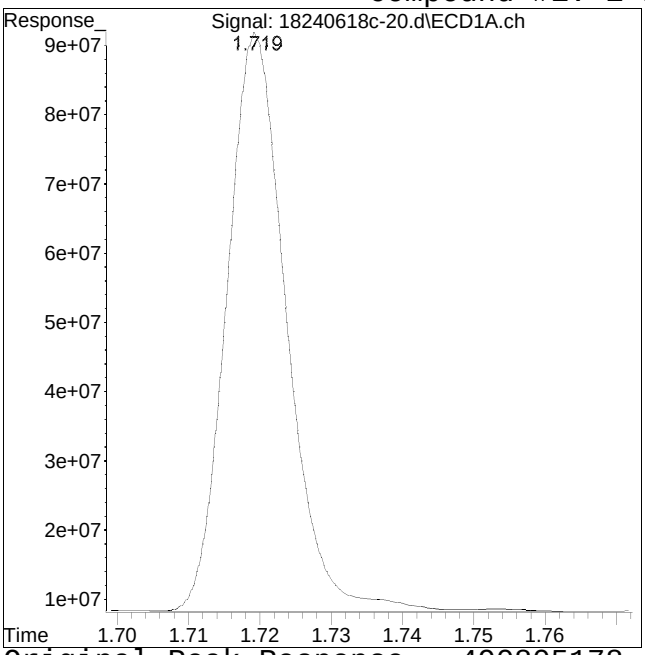
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



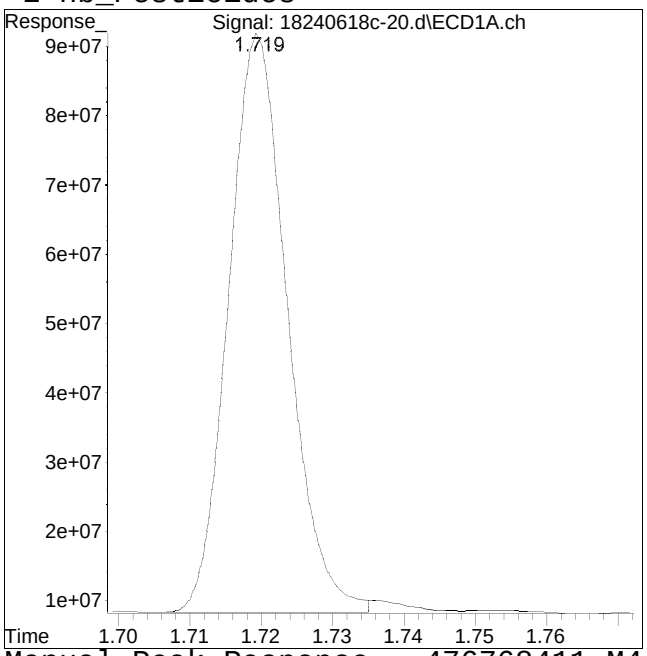
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 490805178



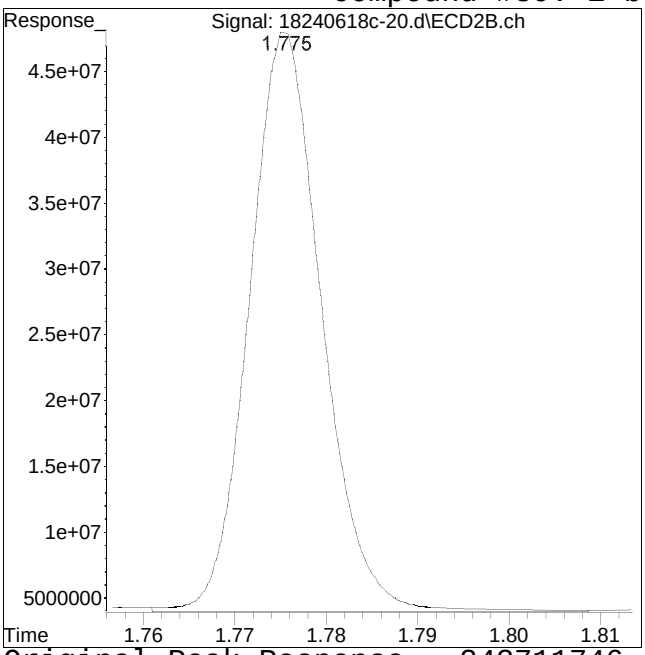
Manual Peak Response = 476768411 M4

M4 = Poor automated baseline construction.

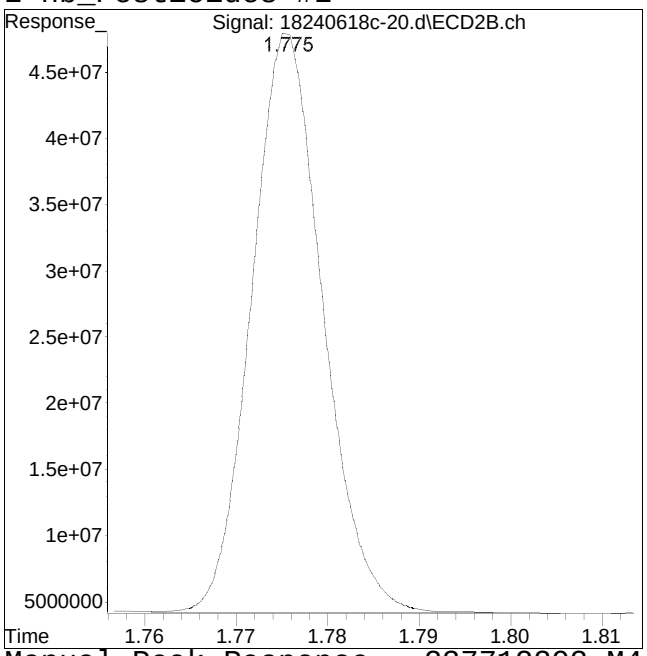
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 243711746



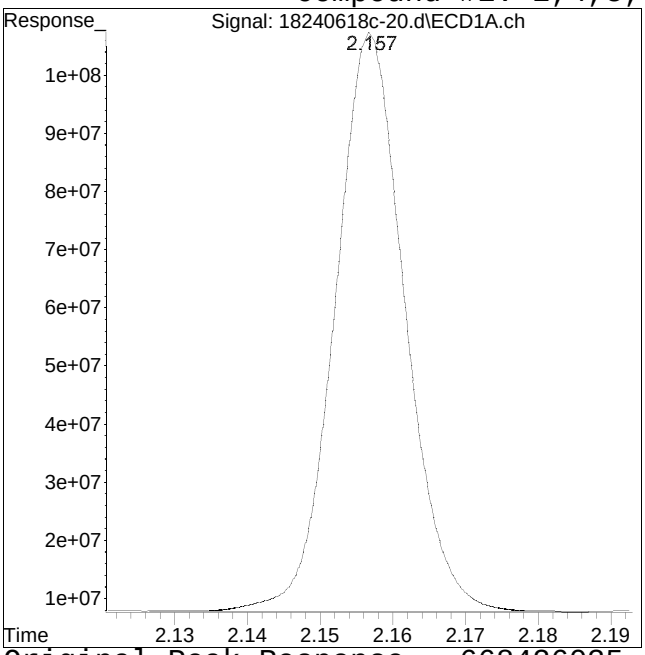
Manual Peak Response = 237712292 M4

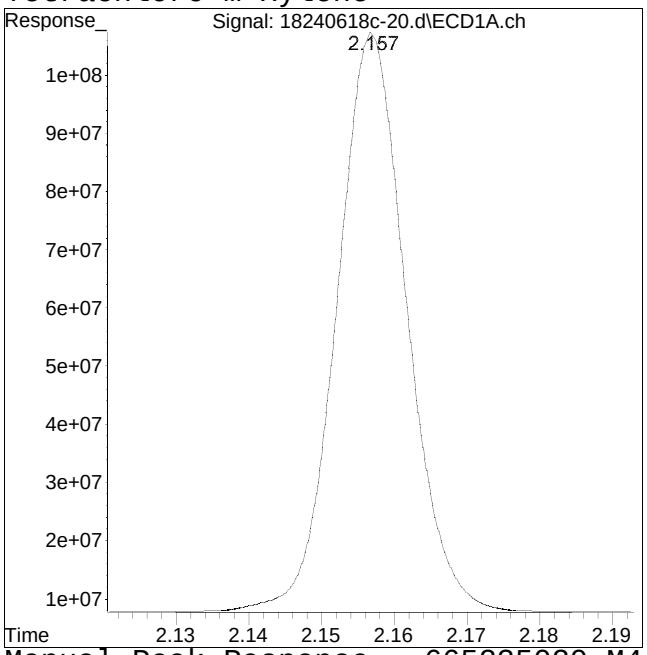
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



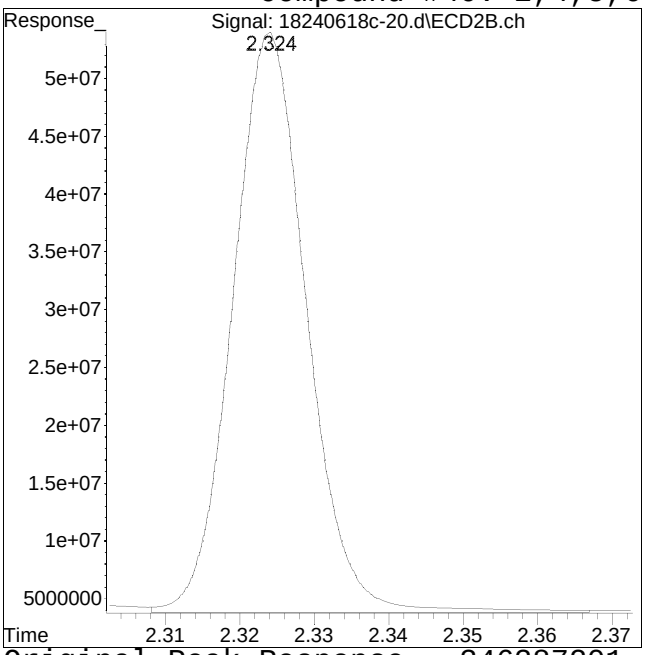


Original Peak Response = 668426035 Manual Peak Response = 665235020 M4
M4 = Poor automated baseline construction.

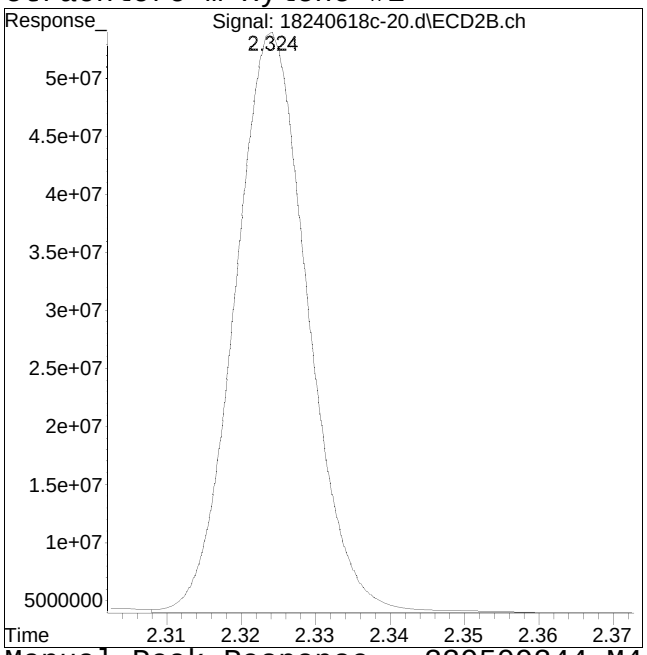
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 346387201



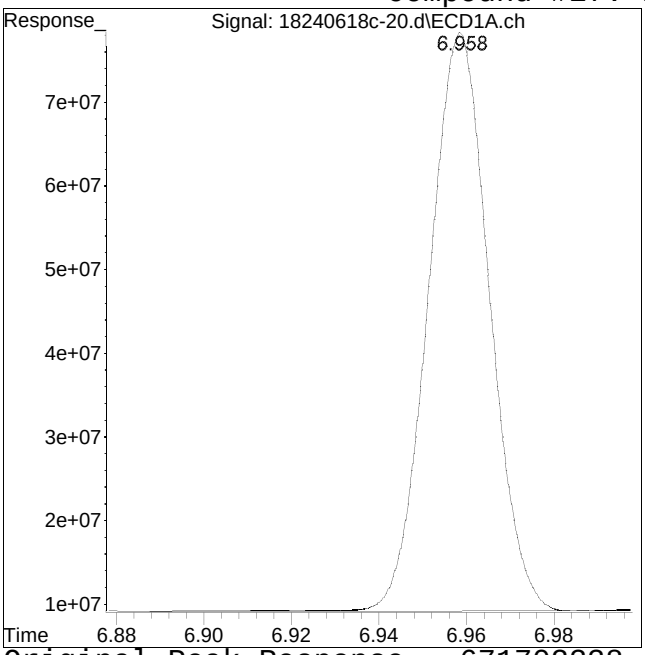
Manual Peak Response = 339509344 M4

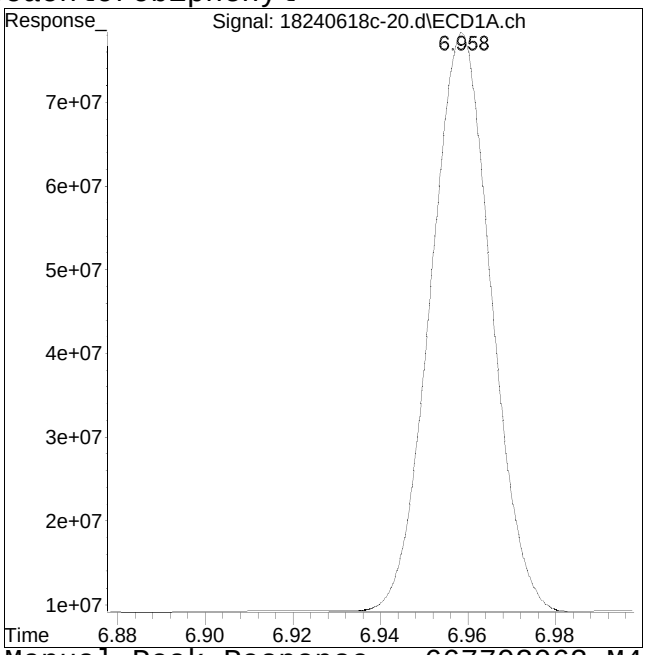
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #27: Decachlorobiphenyl



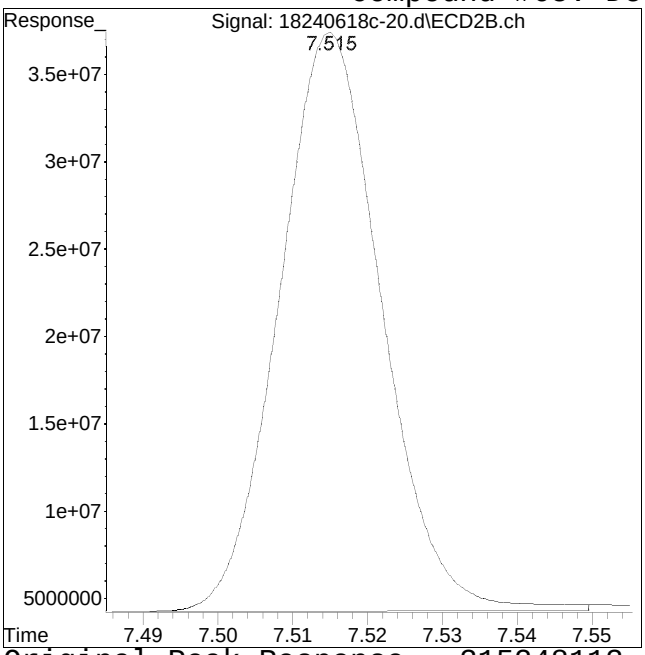


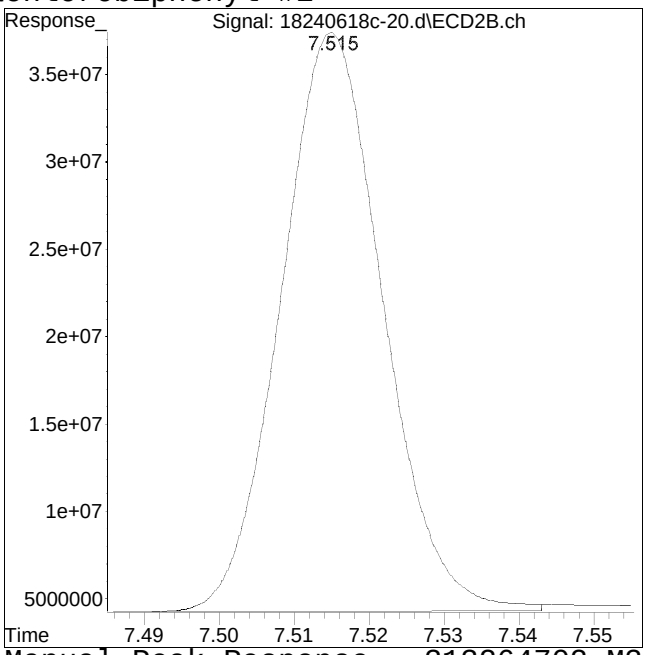
Original Peak Response = 671702338 Manual Peak Response = 667702062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #65: Decachlorobiphenyl #2



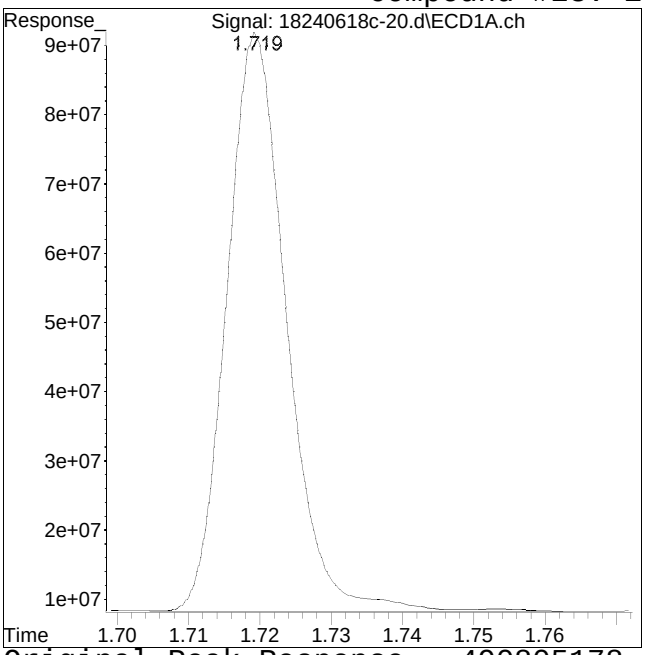


Original Peak Response = 315248113 Manual Peak Response = 313264702 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

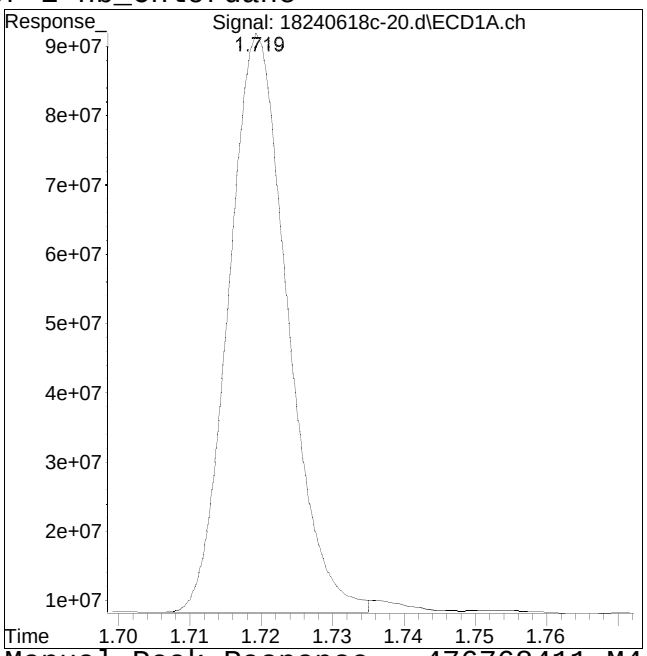
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 490805178



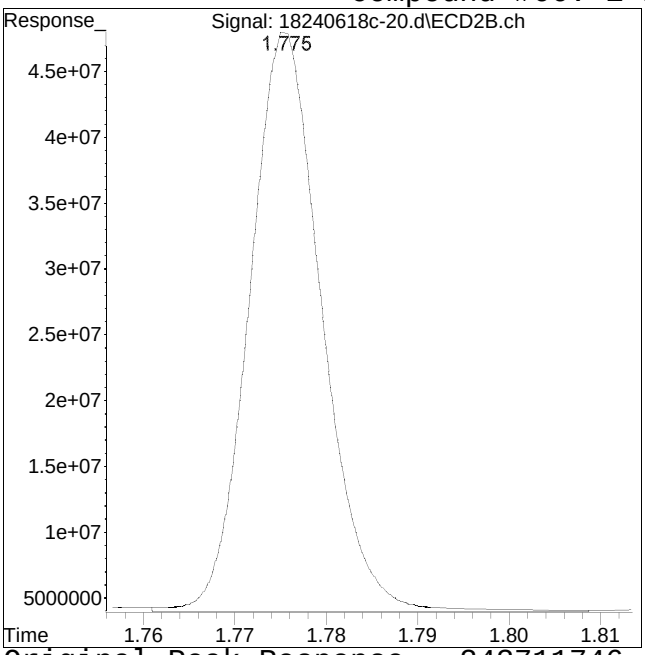
Manual Peak Response = 476768411 M4

M4 = Poor automated baseline construction.

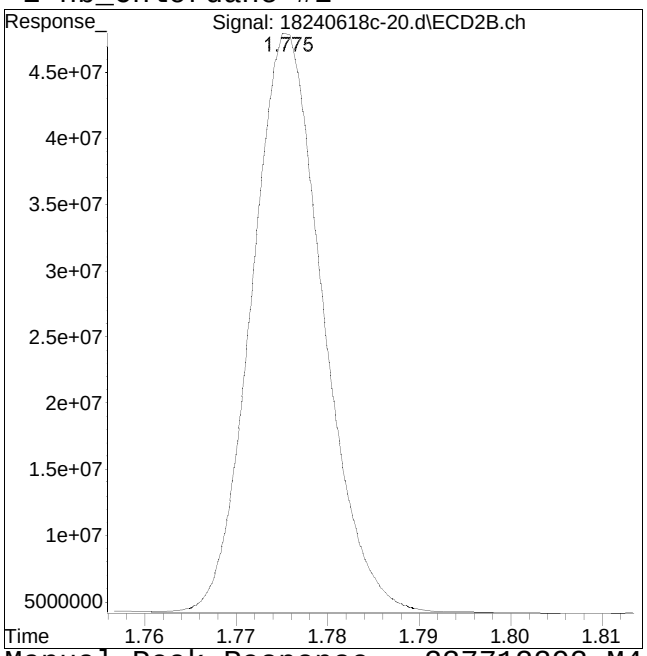
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 243711746



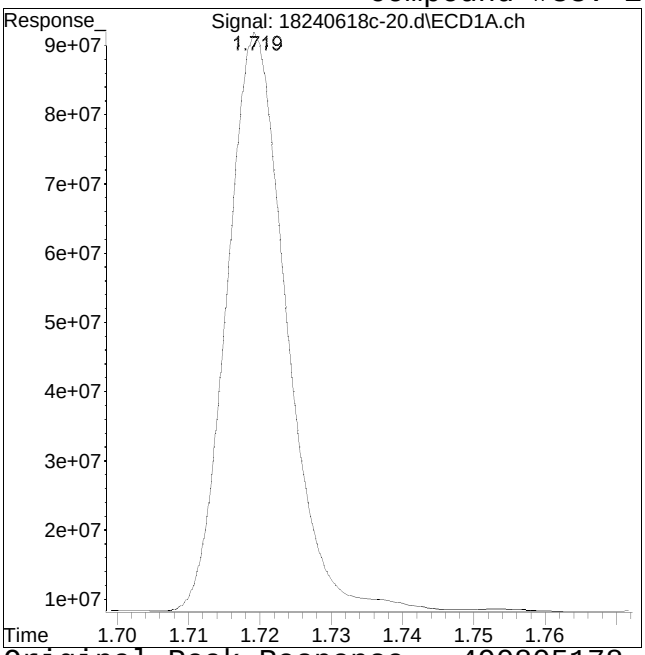
Manual Peak Response = 237712292 M4

M4 = Poor automated baseline construction.

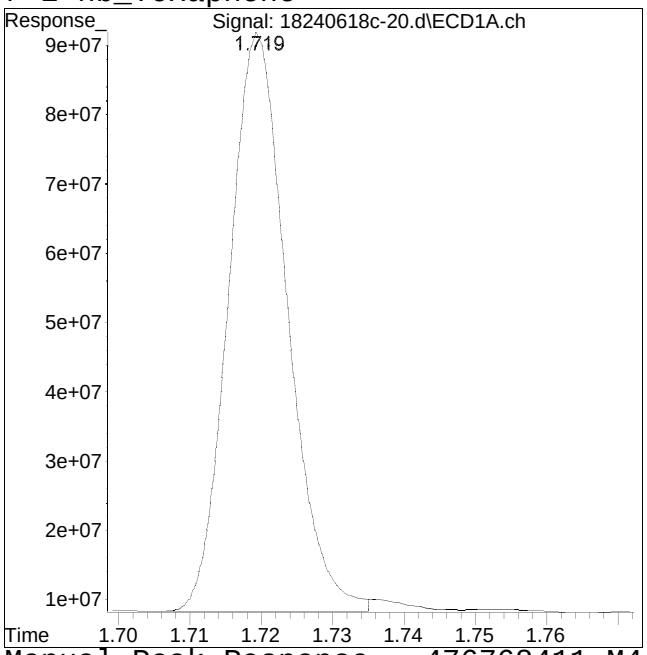
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 490805178



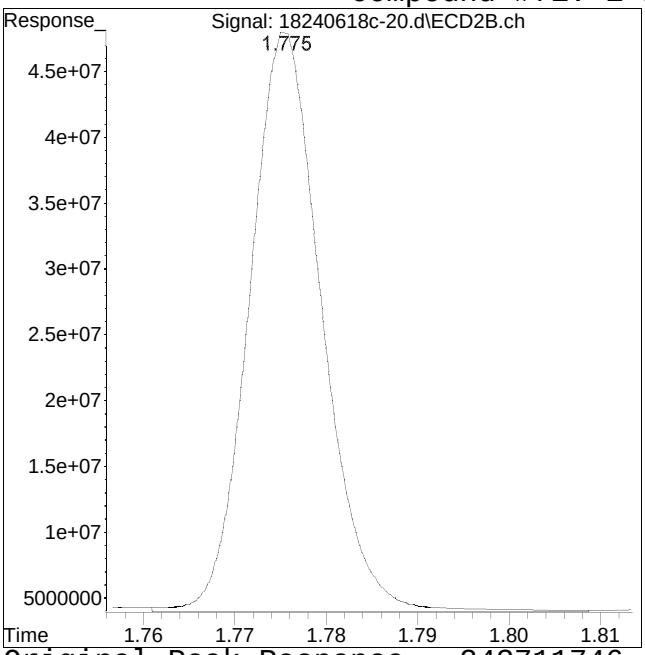
Manual Peak Response = 476768411 M4

M4 = Poor automated baseline construction.

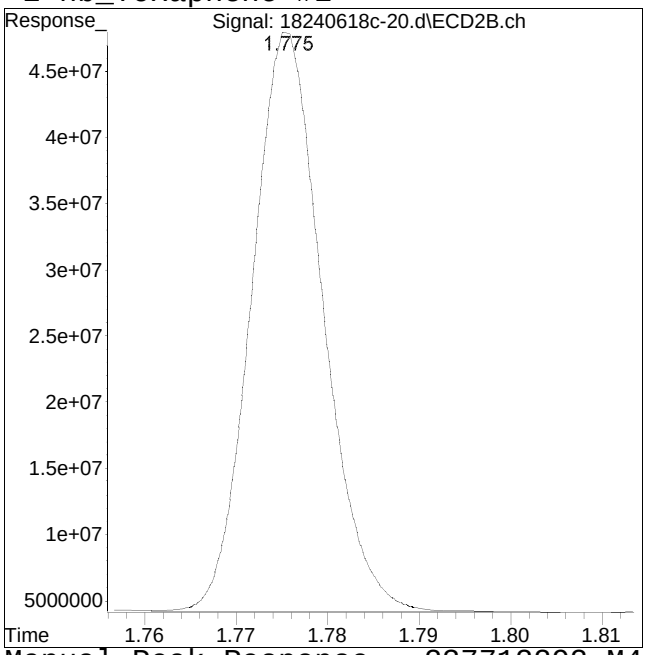
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-20.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 16:08 Instrument : Pest 18
Sample : L2433035-10,42,, Quant Date : 6/18/2024 8:37 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 243711746



Manual Peak Response = 237712292 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20912**
Calibration dates	**: 02/22/24 13:08 03/01/24 13:01**		

Calibration Files

1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.149	1.108	1.073	1.019	0.979	0.912	0.900	0.889	0.848		0.987	10.85
3)		Hexachlorobenzene		1.263	1.251	1.190	1.106	0.998	0.968	0.965	0.932		*L	0.999
5)														
4)		alpha-BHC		1.321	1.301	1.325	1.289	1.284	1.279	1.275	1.301	1.279	1.295	1.42
5)		gamma-BHC (li	1.301	1.269	1.242	1.263	1.217	1.193	1.170	1.156	1.180	1.150	1.214	4.32
6)		beta-BHC			0.674	0.674	0.633	0.584	0.525	0.503	0.506	0.490	*L	0.999
6)														
7)		delta-BHC		1.300	1.243	1.260	1.215	1.196	1.177	1.174	1.206	1.183	1.217	3.52
8)		Heptachlor		1.379	1.327	1.341	1.271	1.213	1.136	1.098	1.092	1.009	1.207	10.77
9)		Aldrin		1.181	1.136	1.148	1.108	1.081	1.049	1.030	1.040	0.972	1.083	6.14
10)		Alachlor		0.217	0.200	0.213	0.204	0.199	0.176	0.161	0.150		0.190	12.99
11)		Chlorpyrifos			0.693	0.686	0.660	0.594	0.497	0.453	0.433		*L	0.996
8)														
12)		Heptachlor Ep		1.185	1.142	1.154	1.104	1.052	0.973	0.943	0.941	0.874	1.041	10.75
13)		gamma-Chlorda		1.122	1.048	1.173	1.008	0.962	0.894	0.867	0.887	0.833	0.977	12.19
14)		alpha-Chlorda		1.235	1.177	1.177	1.121	1.076	1.010	0.969	0.985	0.924	1.075	10.15
15)		4,4'-DDE		1.128	1.057	1.067	1.033	1.016	0.981	0.960	0.983	0.950	1.019	5.68
16)		Endosulfan I		1.135	1.083	1.086	1.038	0.996	0.932	0.894	0.883	0.820	0.985	10.98
17)		Dieldrin	1.121	1.081	1.125	1.049	1.026	0.984	0.953	0.964	0.903		1.023	7.60
18)		Endrin	1.194	1.136	1.145	1.097	1.066	1.015	0.977	0.980	0.914		1.058	8.77
19)		4,4'-DDD	0.942	0.887	0.893	0.849	0.824	0.797	0.779	0.803	0.762		0.837	7.16
20)		Endosulfan II	1.067	1.007	1.025	0.979	0.939	0.879	0.840	0.836	0.754		0.925	11.24
21)		4,4'-DDT	0.958	0.950	0.984	0.903	0.901	0.895	0.879	0.908	0.852		0.915	4.57
22)		Endrin Aldehyde	0.880	0.829	0.851	0.809	0.764	0.700	0.703	0.712	0.669		*L	0.999
0)														
23)		Methoxychlor			0.608	0.581	0.550	0.486	0.451	0.439	0.397		*L	0.995
7)														
24)		Mirex		1.018	1.010	0.955	0.888	0.746	0.696	0.694	0.652		*L	0.998
1)														
25)		Endosulfan Su	1.064	1.004	1.000	0.960	0.921	0.852	0.814	0.820	0.769		0.912	11.22
26)		Endrin Ketone	1.165	1.098	1.105	1.055	1.032	0.953	0.910	0.901	0.834		1.006	11.07
27)	s	Decachlorobip		1.136	1.133	1.076	1.025	0.869	0.826	0.824	0.780		*L	0.998
6)														
28)	i	1-br-2-nb_Chlordane	ISTD											
29)	l1	chlordane-1		0.101	0.090	0.078	0.070	0.065	0.063				*L	0.998

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20912**
Calibration dates	**: 02/22/24 13:08 03/01/24 13:01**		

Calibration Files

1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)														
30)	l1	chlordane-3			0.063	0.055	0.050	0.043	0.038	0.037			*L	0.996
0)														
31)	l1	chlordane-4			0.231	0.183	0.157	0.147	0.137	0.134			*L	0.999
0)														
32)	l1	chlordane-5			0.324	0.281	0.242	0.228	0.211	0.207			*L	0.998
8)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.049	0.043		0.040	0.040	0.037			0.042	10.97
35)	l2	toxaphene-2			0.042	0.045		0.044	0.044	0.041			0.043	3.18
36)	l2	toxaphene-3			0.040	0.046		0.042	0.042	0.040			0.042	5.83
37)	l2	toxaphene-4			0.049	0.041		0.038	0.038	0.036			0.041	12.91

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20912**
Calibration dates	**: 02/22/24 13:08 03/01/24 13:01**		

Signal #2 Calibration Files

1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.086	1.120	1.097	1.034	0.997	0.935	0.914	0.889	0.847	0.991	10.03
3)		Hexachloroben			1.206	1.224	1.147	1.089	0.990	0.961	0.938	0.904	*L	0.999
1)														
4)		alpha-BHC		1.231	1.248	1.287	1.254	1.282	1.307	1.312	1.312	1.281	1.279	2.30
5)		gamma-BHC (li	.274	1.208	1.212	1.240	1.201	1.204	1.202	1.198	1.192	1.161	1.209	2.48
6)		beta-BHC			0.671	0.672	0.638	0.598	0.546	0.534	0.524	0.509	*L	0.999
5)														
7)		delta-BHC		1.229	1.203	1.234	1.201	1.203	1.222	1.230	1.232	1.202	1.217	1.21
8)		Heptachlor		1.283	1.273	1.286	1.240	1.213	1.173	1.145	1.115	1.041	1.197	7.09
9)		Aldrin		1.078	1.074	1.102	1.066	1.067	1.072	1.066	1.050	0.996	1.063	2.70
10)		Alachlor	0.227	0.200	0.204	0.197	0.193	0.175	0.164	0.152			0.189	12.73
11)		Chlorpyrifos		0.697	0.698	0.664	0.617	0.530	0.494	0.462			*L	0.996
8)														
12)		Heptachlor Ep	1.100	1.081	1.124	1.061	1.041	1.008	1.001	0.980	0.915		1.035	6.35
13)		gamma-Chlorda	1.017	0.991	1.009	0.967	0.945	0.912	0.908	0.905	0.866		0.947	5.55
14)		alpha-Chlorda	1.165	1.134	1.155	1.102	1.076	1.022	1.007	0.998	0.953		1.068	7.15
15)		4,4'-DDE	1.006	0.997	1.024	0.985	1.000	1.009	1.011	1.005	0.952		0.999	2.07
16)		Endosulfan I	1.071	1.045	1.064	1.018	1.003	0.961	0.943	0.925	0.870		0.989	6.95
17)		Dieldrin	1.038	1.015	1.041	1.003	1.005	0.996	0.991	0.978	0.929		1.000	3.37
18)		Endrin	0.951	0.987	1.031	0.955	0.973	1.000	0.999	0.988	0.928		0.979	3.17
19)		4,4'-DDD	0.893	0.860	0.875	0.824	0.819	0.818	0.818	0.814	0.778		0.833	4.29
20)		Endosulfan II	1.010	0.972	0.992	0.944	0.934	0.897	0.874	0.847	0.775		0.916	8.24
21)		4,4'-DDT	1.019	1.000	1.019	0.967	0.963	0.943	0.929	0.920	0.872		0.959	5.10
22)		Endrin Aldehyde	0.817	0.782	0.862	0.788	0.754	0.706	0.725	0.716	0.684		*L	0.999
3)														
23)		Methoxychlor			0.640	0.617	0.592	0.514	0.489	0.463	0.425		*L	0.996
0)														
24)		Mirex		0.974	0.976	0.926	0.870	0.746	0.715	0.689	0.651		*L	0.997
9)														
25)		Endosulfan Su	0.989	0.942	0.961	0.919	0.895	0.841	0.821	0.804	0.761		0.881	8.87
26)		Endrin Ketone	1.094	1.075	1.092	1.058	1.046	0.981	0.951	0.922	0.863		1.009	8.24
27)	s	Decachlorobip		0.980	0.984	0.940	0.901	0.768	0.735	0.712	0.675		*L	0.998
1)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1		0.047	0.041	0.037	0.035	0.033	0.032				*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20912**
Calibration dates	**: 02/22/24 13:08 03/01/24 13:01**		

Signal #2 Calibration Files

1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)														
30)	l1	chlordane-3			0.053	0.049	0.044	0.039	0.036	0.034			*L	0.996
8)														
31)	l1	chlordane-4			0.167	0.161	0.143	0.140	0.132	0.128			*L	0.998
9)														
32)	l1	chlordane-5			0.139	0.128	0.115	0.111	0.105	0.101			*L	0.998
9)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.016	0.020		0.021	0.021	0.021			0.020	12.06
35)	l2	toxaphene-2			0.029	0.029		0.032	0.033	0.031			0.031	5.71
36)	l2	toxaphene-3			0.034	0.035		0.038	0.038	0.037			0.036	6.02
37)	l2	toxaphene-4			0.032	0.033		0.035	0.035	0.034			0.034	3.52

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL21192**
Calibration dates	**: 06/12/24 19:40 06/13/24 00:03**		

Calibration Files

1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D

7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.550	1.428	1.432	1.357	1.257	1.113	1.046	0.986	0.908		1.231	18.40
3)		Hexachlorobenzene	1.567	1.558	1.460	1.345	1.166	1.078	1.021	0.960			1.269	19.26
4)		alpha-BHC	1.727	1.624	1.625	1.567	1.509	1.437	1.360	1.314	1.252		1.490	10.77
5)		gamma-BHC (li	1.736	1.665	1.559	1.548	1.499	1.421	1.329	1.245	1.193	1.138	1.433	14.14
6)		beta-BHC	0.907	0.842	0.825	0.793	0.720	0.618	0.572	0.547			0.728	18.55
7)		delta-BHC	1.660	1.536	1.526	1.499	1.405	1.337	1.262	1.220	1.174		1.402	11.79
8)		Heptachlor	1.716	1.587	1.554	1.531	1.408	1.276	1.161	1.095	1.026		1.373	17.73
9)		Aldrin	1.652	1.522	1.504	1.476	1.375	1.277	1.169	1.105	1.046		1.347	15.56
10)		Alachlor	0.287	0.277	0.286	0.262	0.216	0.188	0.170				0.241	20.31
11)		Chlorpyrifos	0.839	0.747	0.614	0.533	0.490						*L	0.993
7)														
12)		Heptachlor Ep	1.683	1.534	1.500	1.499	1.364	1.224	1.107	1.041	0.985		1.326	18.63
13)		gamma-Chlorda	1.548	1.542	1.396	1.384	1.257	1.137	1.028	0.977	0.943		1.246	18.92
14)		alpha-Chlorda	1.765	1.657	1.587	1.576	1.456	1.295	1.163	1.099	1.063		1.407	18.46
15)		4,4'-DDE	1.719	1.584	1.512	1.535	1.389	1.316	1.181	1.117	1.078		1.381	16.23
16)		Endosulfan I	1.611	1.493	1.464	1.464	1.307	1.178	1.067	1.008	0.967		1.284	18.47
17)		Dieldrin	1.584	1.531	1.474	1.466	1.345	1.253	1.131	1.076	1.038		1.322	15.57
18)		Endrin	1.634	1.555	1.497	1.506	1.367	1.268	1.145	1.084	1.049		1.345	16.17
19)		4,4'-DDD	1.305	1.255	1.222	1.225	1.117	1.056	0.944	0.901	0.884		1.101	14.71
20)		Endosulfan II	1.497	1.399	1.383	1.368	1.230	1.130	1.008	0.955	0.922		1.210	17.74
21)		4,4'-DDT	1.291	1.215	1.247	1.090	1.120	1.133	1.018	0.948	0.958		1.113	11.06
22)		Endrin Aldehyde	1.223	1.161	1.131	1.135	1.041	0.955	0.848	0.804	0.786		1.009	16.49
23)		Methoxychlor	0.875	0.885	0.770	0.662	0.556	0.514					*L	0.991
5)														
24)		Mirex	1.364	1.203	1.022	0.869	0.811	0.798					*L	0.996
2)														
25)		Endosulfan Su	1.500	1.400	1.328	1.328	1.183	1.057	0.940	0.887			1.203	18.56
26)		Endrin Ketone	1.642	1.535	1.502	1.500	1.348	1.227	1.069	1.003	0.971		1.311	19.24
27)	s	Decachlorobip	1.366	1.146	0.981	0.924	0.935						1.070	17.51
28)	i	1-br-2-nb_Chlordane	ISTD											
29)	l1	chlordane-1	0.101	0.089	0.077	0.075	0.069	0.065					*L	0.996
9)														
30)	l1	chlordane-3	0.070	0.067	0.055	0.050	0.045	0.041					*L	0.994
2)														
31)	l1	chlordane-4	0.242	0.210	0.176	0.174	0.158	0.147					*L	0.996

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL21192**
Calibration dates	**: 06/12/24 19:40 06/13/24 00:03**		

Calibration Files

1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
5)														
32)	l1	chlordane-5			0.354	0.314	0.271	0.267	0.242	0.226			*L	0.996
3)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.057	0.075		0.069	0.063	0.061			0.065	10.71
35)	l2	toxaphene-2			0.052	0.049		0.045	0.041	0.040			0.046	11.10
36)	l2	toxaphene-4			0.048	0.043		0.040	0.036	0.036			0.040	12.24
37)	l2	toxaphene-5			0.056	0.053		0.047	0.042	0.041			0.048	13.77

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL21192**
Calibration dates	**: 06/12/24 19:40 06/13/24 00:03**		

Signal #2 Calibration Files

1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.344	1.220	1.216	1.199	1.114	1.048	1.021	0.999	0.968	1.125	11.24
3)		Hexachloroben			1.339	1.313	1.252	1.178	1.072	1.030	1.013	0.996	1.149	12.15
4)		alpha-BHC		1.526	1.434	1.470	1.415	1.421	1.417	1.397	1.392	1.387	1.429	3.10
5)		gamma-BHC (li	1.544	1.512	1.394	1.404	1.352	1.323	1.295	1.267	1.257	1.249	1.360	7.65
6)		beta-BHC		0.792	0.735	0.746	0.694	0.645	0.581	0.562	0.548		0.663	13.99
7)		delta-BHC		1.504	1.369	1.402	1.357	1.334	1.316	1.297	1.293	1.288	1.351	5.11
8)		Heptachlor		1.468	1.382	1.367	1.328	1.317	1.247	1.191	1.154	1.109	1.285	9.15
9)		Aldrin		1.385	1.275	1.258	1.266	1.229	1.214	1.157	1.132	1.110	1.225	6.91
10)		Alachlor			0.251	0.240	0.246	0.232	0.200	0.180	0.168		0.217	15.58
11)		Chlorpyrifos					0.798	0.703	0.587	0.532	0.492		*L	0.996
3)														
12)		Heptachlor Ep		1.383	1.311	1.301	1.264	1.215	1.154	1.085	1.045	1.011	1.197	10.86
13)		gamma-Chlorda		1.305	1.227	1.176	1.180	1.087	1.053	0.996	0.976	0.975	1.108	10.76
14)		alpha-Chlorda		1.443	1.335	1.296	1.311	1.228	1.173	1.097	1.070	1.071	1.225	10.77
15)		4,4'-DDE		1.314	1.267	1.217	1.279	1.212	1.232	1.146	1.119	1.117	1.211	5.86
16)		Endosulfan I		1.323	1.239	1.199	1.204	1.148	1.093	1.019	0.983	0.957	1.130	11.08
17)		Dieldrin		1.308	1.240	1.178	1.223	1.160	1.148	1.074	1.044	1.029	1.156	8.14
18)		Endrin		1.393	1.271	1.221	1.254	1.180	1.162	1.077	1.038	1.023	1.180	10.23
19)		4,4'-DDD		1.120	1.034	1.047	1.074	0.983	0.993	0.918	0.894	0.903	0.996	8.01
20)		Endosulfan II		1.294	1.202	1.139	1.145	1.067	1.027	0.949	0.914	0.901	1.071	12.69
21)		4,4'-DDT		1.227	1.174	1.124	1.162	1.096	1.092	1.003	0.976	0.998	1.095	7.99
22)		Endrin Aldehyde		1.131	1.045	0.978	0.965	0.902	0.867	0.801	0.773	0.770	0.915	13.75
23)		Methoxychlor				0.781	0.742	0.637	0.577	0.513	0.483		*L	0.996
5)														
24)		Mirex					1.052	0.925	0.829	0.736	0.708	0.726	*L	0.998
8)														
25)		Endosulfan Su		1.206	1.125	1.075	1.102	1.004	0.960	0.880	0.849		1.025	12.12
26)		Endrin Ketone		1.313	1.250	1.203	1.242	1.146	1.098	0.992	0.954	0.950	1.128	12.12
27)	s	Decachlorobip						0.989	0.887	0.784	0.772	0.816	0.850	10.59
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.089	0.084	0.072	0.073	0.066	0.061			0.074	14.29
30)	l1	chlordane-3			0.051	0.050	0.043	0.043	0.038	0.034			0.043	15.47
31)	l1	chlordane-4			0.183	0.165	0.141	0.146	0.130	0.121			0.148	15.62
32)	l1	chlordane-5			0.140	0.131	0.112	0.115	0.102	0.094			0.116	14.96
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL21192**
Calibration dates	**: 06/12/24 19:40 06/13/24 00:03**		

Signal #2 Calibration Files

1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
34) l2 toxaphene-1	0.040	0.038	0.034	0.032	0.032						0.035	10.20
35) l2 toxaphene-2	0.073	0.071	0.066	0.060	0.061						0.066	8.78
36) l2 toxaphene-4	0.052	0.046	0.041	0.038	0.039						0.043	12.80
37) l2 toxaphene-5	0.043	0.041	0.037	0.034	0.035						0.038	9.65

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024
Response Via : Initial Calibration

Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.149	1.108	1.073	1.019	0.979	0.912	0.900	0.889	0.848	0.987	10.85
3)		Hexachloroben...			1.263	1.251	1.190	1.106	0.998	0.968	0.965	0.932	*L	0.999
4)		alpha-BHC		1.321	1.301	1.325	1.289	1.284	1.279	1.275	1.301	1.279	1.295	1.42
5)		gamma-BHC (li...	1.301	1.269	1.242	1.263	1.217	1.193	1.170	1.156	1.180	1.150	1.214	4.32
6)		beta-BHC			0.674	0.674	0.633	0.584	0.525	0.503	0.506	0.490	*L	0.999
7)		delta-BHC		1.300	1.243	1.260	1.215	1.196	1.177	1.174	1.206	1.183	1.217	3.52
8)		Heptachlor		1.379	1.327	1.341	1.271	1.213	1.136	1.098	1.092	1.009	1.207	10.77
9)		Aldrin		1.181	1.136	1.148	1.108	1.081	1.049	1.030	1.040	0.972	1.083	6.14
10)		Alachlor		0.217	0.200	0.213	0.204	0.199	0.176	0.161	0.150		0.190	12.99
11)		Chlorpyrifos			0.693	0.686	0.660	0.594	0.497	0.453	0.433		*L	0.996
12)		Heptachlor Ep...		1.185	1.142	1.154	1.104	1.052	0.973	0.943	0.941	0.874	1.041	10.75
13)		gamma-Chlorda...		1.122	1.048	1.173	1.008	0.962	0.894	0.867	0.887	0.833	0.977	12.19
14)		alpha-Chlorda...		1.235	1.177	1.177	1.121	1.076	1.010	0.969	0.985	0.924	1.075	10.15
15)		4,4'-DDE		1.128	1.057	1.067	1.033	1.016	0.981	0.960	0.983	0.950	1.019	5.68
16)		Endosulfan I		1.135	1.083	1.086	1.038	0.996	0.932	0.894	0.883	0.820	0.985	10.98

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024
Response Via : Initial Calibration

Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.121	1.081	1.125	1.049	1.026	0.984	0.953	0.964	0.903	1.023	7.60
18)		Endrin		1.194	1.136	1.145	1.097	1.066	1.015	0.977	0.980	0.914	1.058	8.77
19)		4,4'-DDD		0.942	0.887	0.893	0.849	0.824	0.797	0.779	0.803	0.762	0.837	7.16
20)		Endosulfan II		1.067	1.007	1.025	0.979	0.939	0.879	0.840	0.836	0.754	0.925	11.24
21)		4,4'-DDT		0.958	0.950	0.984	0.903	0.901	0.895	0.879	0.908	0.852	0.915	4.57
22)		Endrin Aldehyde		0.880	0.829	0.851	0.809	0.764	0.700	0.703	0.712	0.669	*L	0.9990
23)		Methoxychlor				0.608	0.581	0.550	0.486	0.451	0.439	0.397	*L	0.9957
24)		Mirex			1.018	1.010	0.955	0.888	0.746	0.696	0.694	0.652	*L	0.9981
25)		Endosulfan Su...		1.064	1.004	1.000	0.960	0.921	0.852	0.814	0.820	0.769	0.912	11.22
26)		Endrin Ketone		1.165	1.098	1.105	1.055	1.032	0.953	0.910	0.901	0.834	1.006	11.07
27)	s	Decachlorobip...			1.136	1.133	1.076	1.025	0.869	0.826	0.824	0.780	*L	0.9986
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.101	0.090	0.078	0.070	0.065	0.063			*L	0.9981
30)	l1	chlordane-3			0.063	0.055	0.050	0.043	0.038	0.037			*L	0.9960
31)	l1	chlordane-4			0.231	0.183	0.157	0.147	0.137	0.134			*L	0.9990
32)	l1	chlordane-5			0.324	0.281	0.242	0.228	0.211	0.207			*L	0.9988

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024
Response Via : Initial Calibration

Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.049	0.043		0.040	0.040	0.037			0.042	10.97
35)	l2	toxaphene-2			0.042	0.045		0.044	0.044	0.041			0.043	3.18
36)	l2	toxaphene-3			0.040	0.046		0.042	0.042	0.040			0.042	5.83
37)	l2	toxaphene-4			0.049	0.041		0.038	0.038	0.036			0.041	12.91

Signal #2 Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.086	1.120	1.097	1.034	0.997	0.935	0.914	0.889	0.847	0.991	10.03
3)		Hexachloroben...			1.206	1.224	1.147	1.089	0.990	0.961	0.938	0.904	*L	0.999
1														
4)		alpha-BHC		1.231	1.248	1.287	1.254	1.282	1.307	1.312	1.312	1.281	1.279	2.30
5)		gamma-BHC (li...	1.274	1.208	1.212	1.240	1.201	1.204	1.202	1.198	1.192	1.161	1.209	2.48
6)		beta-BHC			0.671	0.672	0.638	0.598	0.546	0.534	0.524	0.509	*L	0.999
5														
7)		delta-BHC		1.229	1.203	1.234	1.201	1.203	1.222	1.230	1.232	1.202	1.217	1.21
8)		Heptachlor		1.283	1.273	1.286	1.240	1.213	1.173	1.145	1.115	1.041	1.197	7.09
9)		Aldrin		1.078	1.074	1.102	1.066	1.067	1.072	1.066	1.050	0.996	1.063	2.70

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024
Response Via : Initial Calibration

Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor		0.227	0.200	0.204	0.197	0.193	0.175	0.164	0.152		0.189	12.73
11)	Chlorpyrifos			0.697	0.698	0.664	0.617	0.530	0.494	0.462		*L	0.996
8													
12)	Heptachlor Ep...		1.100	1.081	1.124	1.061	1.041	1.008	1.001	0.980	0.915	1.035	6.35
13)	gamma-Chlorda...		1.017	0.991	1.009	0.967	0.945	0.912	0.908	0.905	0.866	0.947	5.55
14)	alpha-Chlorda...		1.165	1.134	1.155	1.102	1.076	1.022	1.007	0.998	0.953	1.068	7.15
15)	4,4'-DDE		1.006	0.997	1.024	0.985	1.000	1.009	1.011	1.005	0.952	0.999	2.07
16)	Endosulfan I		1.071	1.045	1.064	1.018	1.003	0.961	0.943	0.925	0.870	0.989	6.95
17)	Dieldrin		1.038	1.015	1.041	1.003	1.005	0.996	0.991	0.978	0.929	1.000	3.37
18)	Endrin		0.951	0.987	1.031	0.955	0.973	1.000	0.999	0.988	0.928	0.979	3.17
19)	4,4'-DDD		0.893	0.860	0.875	0.824	0.819	0.818	0.818	0.814	0.778	0.833	4.29
20)	Endosulfan II		1.010	0.972	0.992	0.944	0.934	0.897	0.874	0.847	0.775	0.916	8.24
21)	4,4'-DDT		1.019	1.000	1.019	0.967	0.963	0.943	0.929	0.920	0.872	0.959	5.10
22)	Endrin Aldehyde		0.817	0.782	0.862	0.788	0.754	0.706	0.725	0.716	0.684	*L	0.999
3													
23)	Methoxychlor				0.640	0.617	0.592	0.514	0.489	0.463	0.425	*L	0.996
0													
24)	Mirex			0.974	0.976	0.926	0.870	0.746	0.715	0.689	0.651	*L	0.997
9													
25)	Endosulfan Su...		0.989	0.942	0.961	0.919	0.895	0.841	0.821	0.804	0.761	0.881	8.87

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024
Response Via : Initial Calibration

Calibration Files
1 =18240222i-03.d 2 =18240222i-04.d 3 =18240222i-48.d 4 =18240222i-49.d 5 =18240222i-32.d
7 =18240222i-50.d 8 =18240222i-51.d 9 =18240222i-42.d 10 =18240222i-46.d 11 =18240222i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone	1.094	1.075	1.092	1.058	1.046	0.981	0.951	0.922	0.863		1.009	8.24
27)	s	Decachlorobip...			0.980	0.984	0.940	0.901	0.768	0.735	0.712	0.675	*L	0.998 1
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.047	0.041	0.037	0.035	0.033	0.032			*L	0.999 1
30)	l1	chlordane-3			0.053	0.049	0.044	0.039	0.036	0.034			*L	0.996 8
31)	l1	chlordane-4			0.167	0.161	0.143	0.140	0.132	0.128			*L	0.998 9
32)	l1	chlordane-5			0.139	0.128	0.115	0.111	0.105	0.101			*L	0.998 9
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.016	0.020		0.021	0.021	0.021			0.020	12.06
35)	l2	toxaphene-2			0.029	0.029		0.032	0.033	0.031			0.031	5.71
36)	l2	toxaphene-3			0.034	0.035		0.038	0.038	0.037			0.036	6.02
37)	l2	toxaphene-4			0.032	0.033		0.035	0.035	0.034			0.034	3.52

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 12:57 pm
Operator : PEST18:ejl
Sample : pem18240222i-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 -- (Sig #2)
Misc : WG1892874,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:55:56 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:10:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	353.1E6	151.4E6	25.000M3	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.197	4.903	909055	414796	0.063M2	0.069M4
18)	Endrin	4.743	5.378	751.9E6	278.1E6	50.305M4	46.895
19)	4,4'-DDD	4.867	5.522	2799155	1385731	0.237M4	0.275
21)	4,4'-DDT	5.176	5.812	1174.2E6	593.7E6	90.881M4	102.204
22)	Endrin Aldeh	5.434	5.903	1107075	442608	N.D. M4	N.D. M4
26)	Endrin Keton	6.071	6.565	2777170	1488305	0.195M4	0.243
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

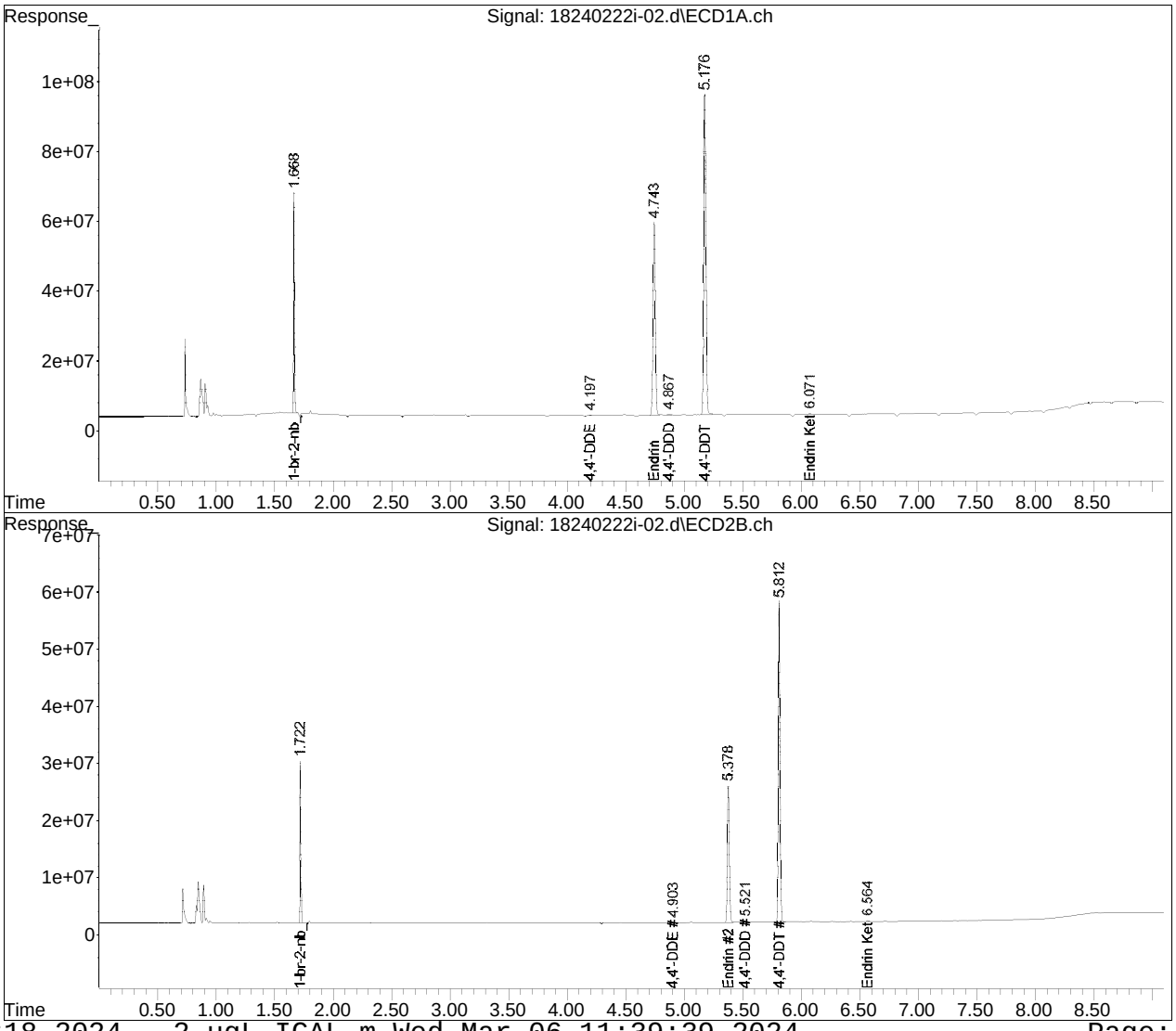
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 12:57 pm
Operator : PEST18:ejl
Sample : pem18240222i-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 --
Misc : WG1892874,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:55:56 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:10:20 2024
Response via : Initial Calibration
Integrator: ChemStation

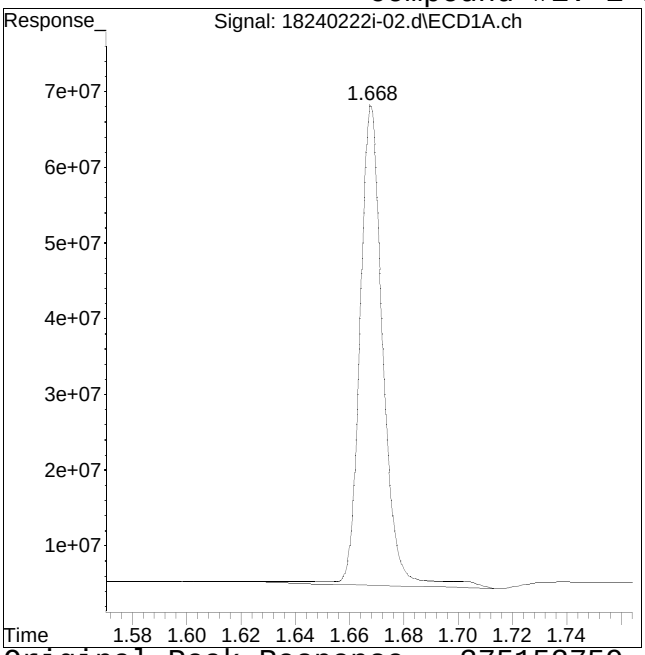
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

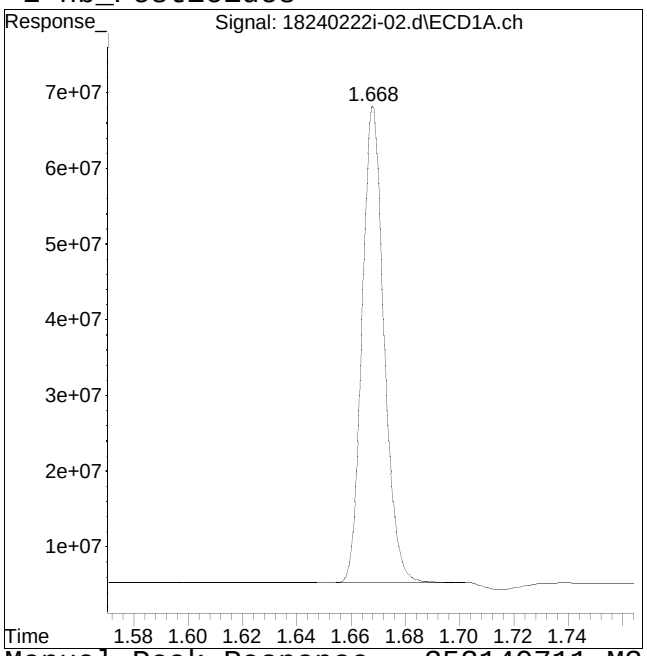


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #1: 1-br-2-nb_Pesticides



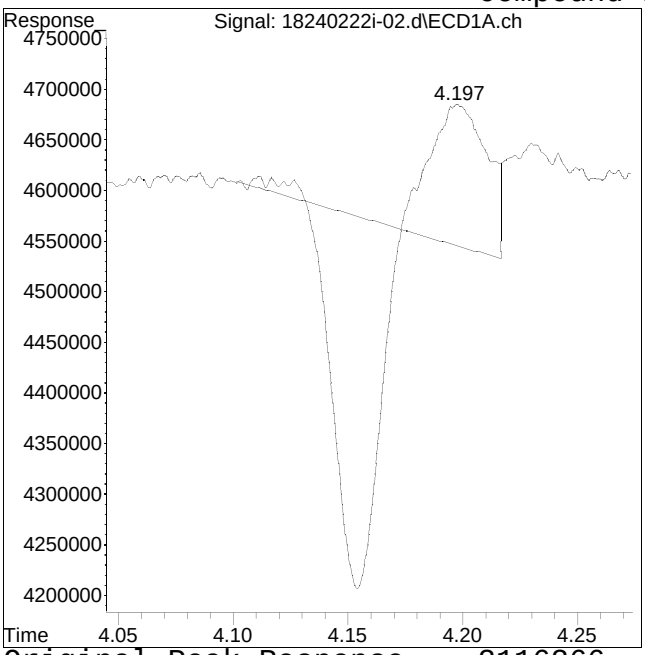


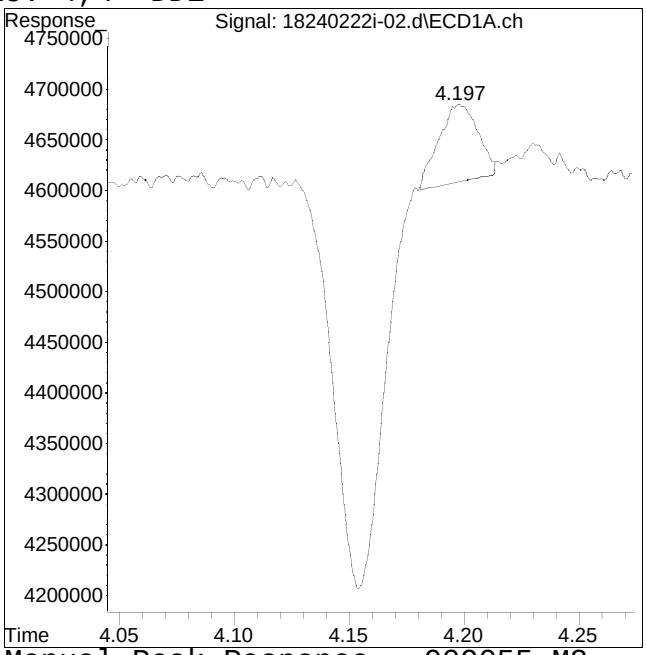
Original Peak Response = 375152759 Manual Peak Response = 353140711 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #15: 4,4'-DDE



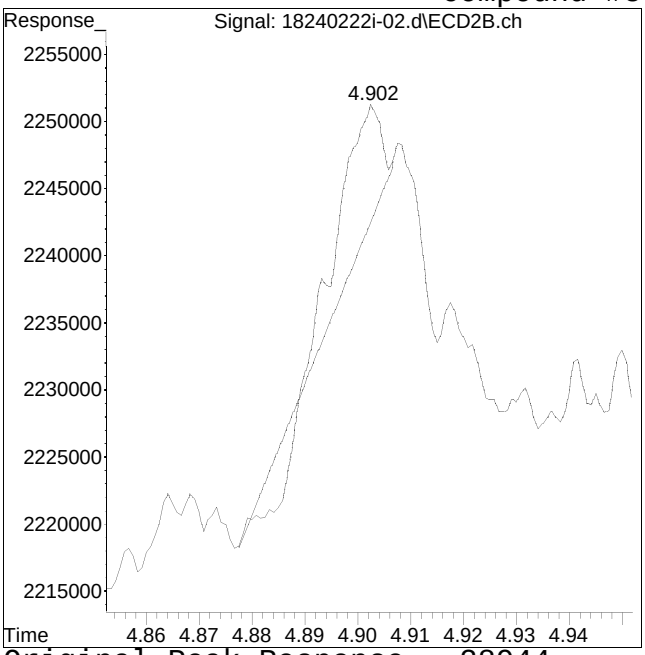


Original Peak Response = -2116266 Manual Peak Response = 909055 M2
M2 = Peak not found by automatic integration algorithm.

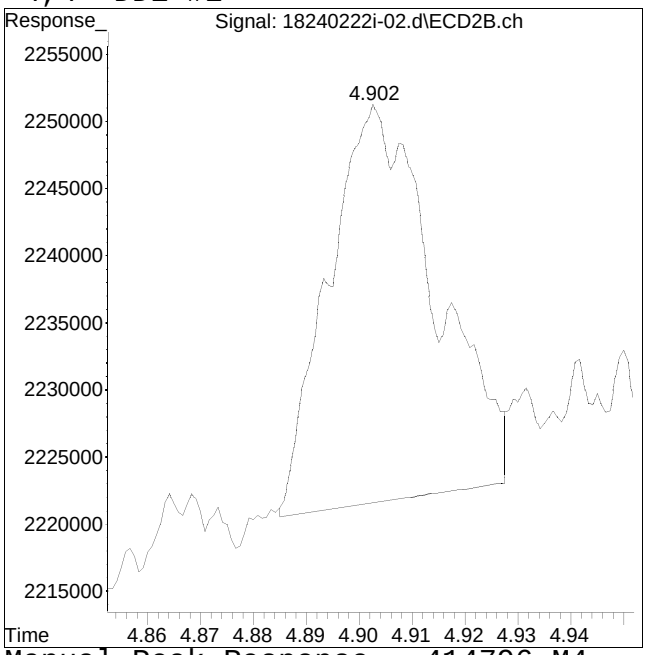
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 28944



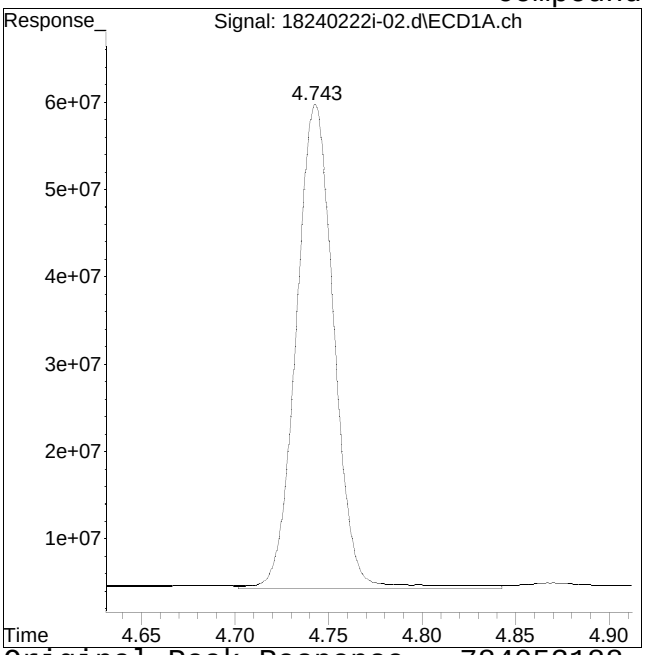
Manual Peak Response = 414796 M4

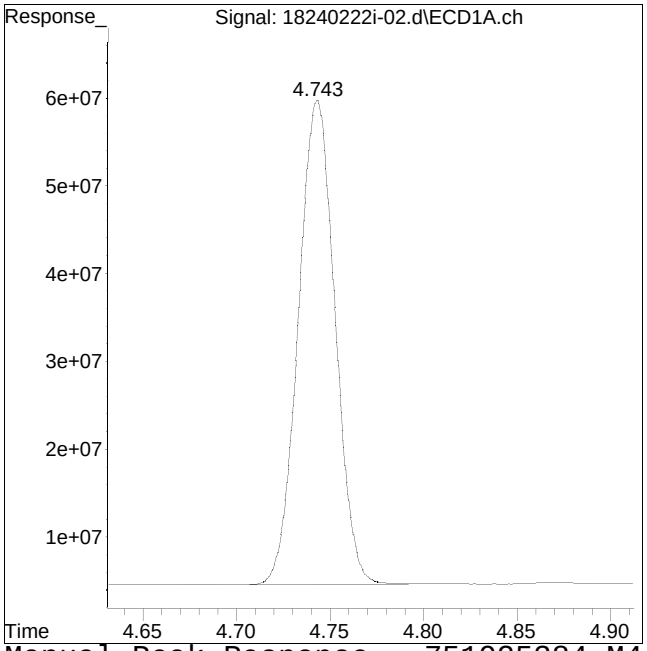
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #18: Endrin



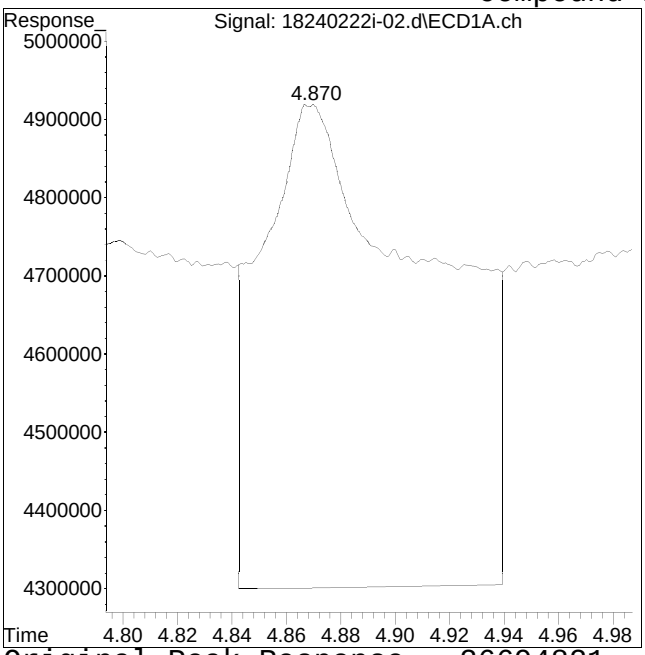


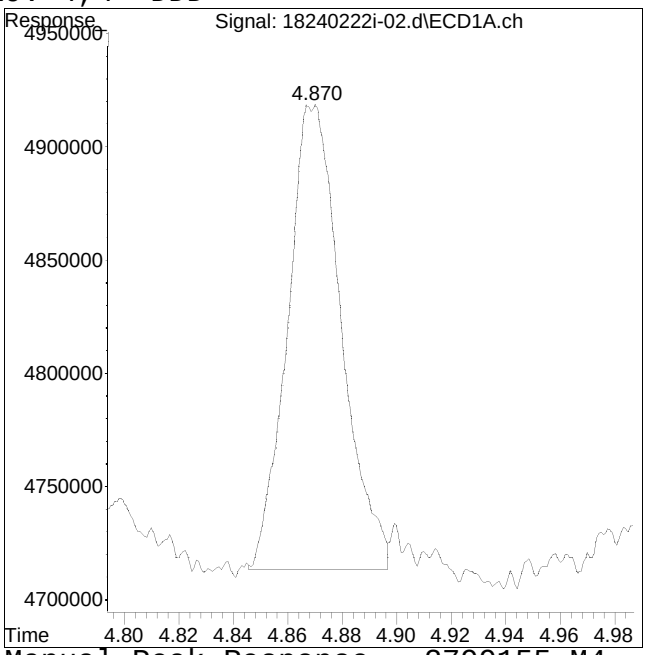
Original Peak Response = 784053188 Manual Peak Response = 751925384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #19: 4,4'-DDD



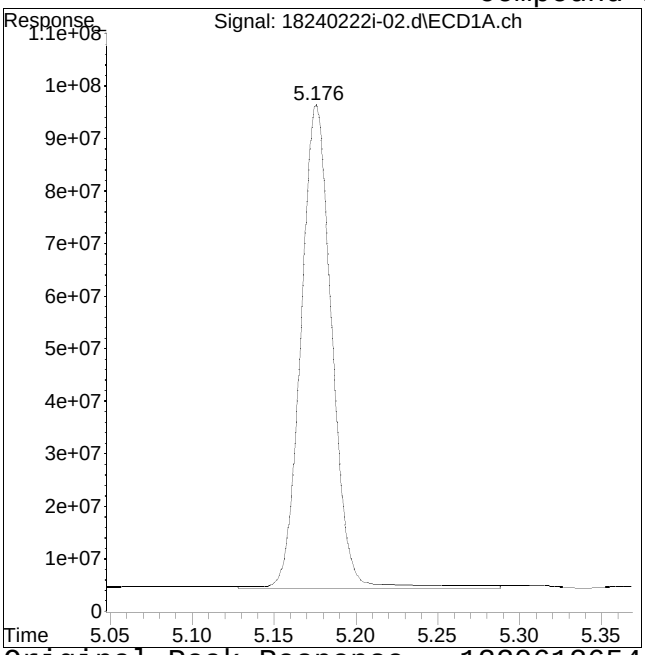


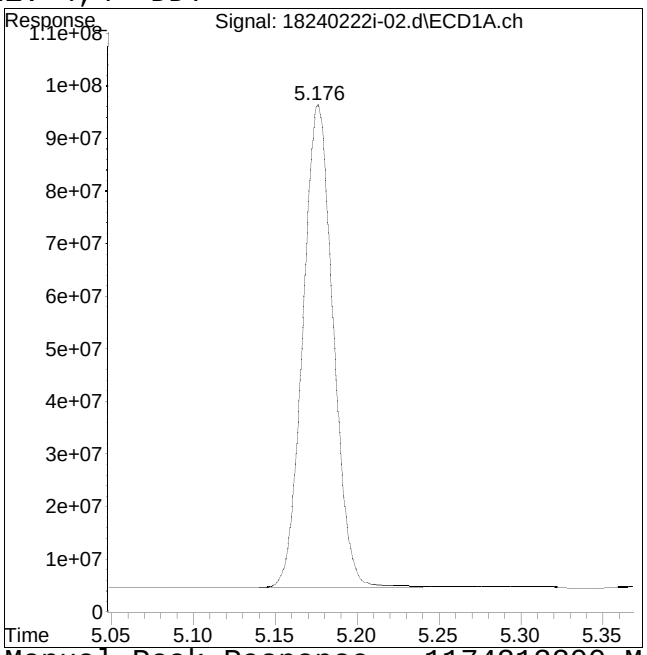
Original Peak Response = 26694821 Manual Peak Response = 2799155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #21: 4,4'-DDT



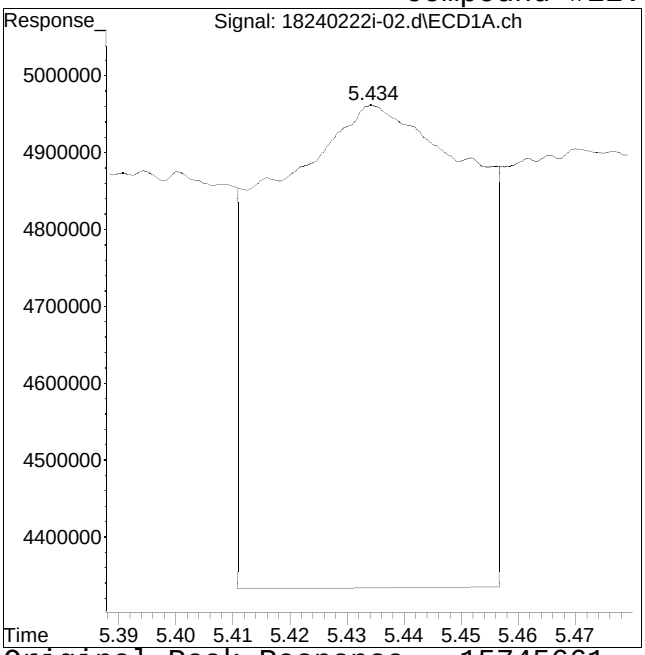


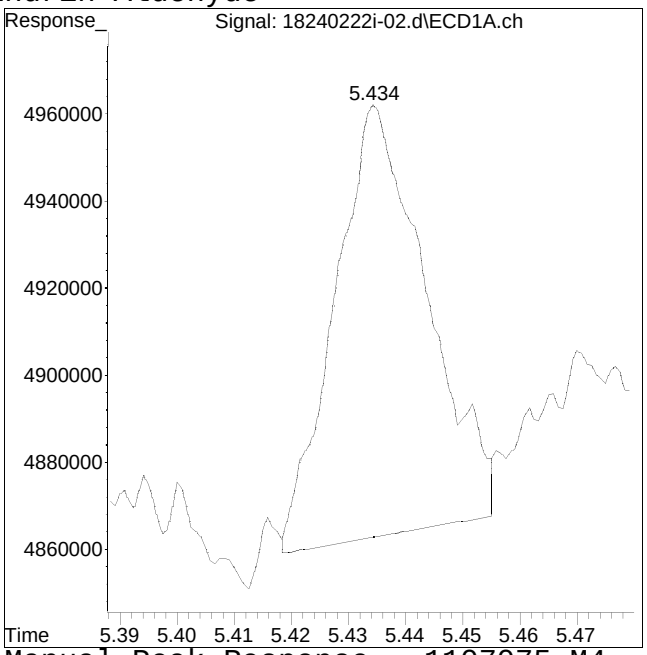
Original Peak Response = 1220612654 Manual Peak Response = 1174213200 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-02.d
Date Inj'd : 2/22/2024 12:57 pm
Sample : pem18240222i-01,42e,,pp 11
Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 3/1/2024 9:55 am

Compound #22: Endrin Aldehyde



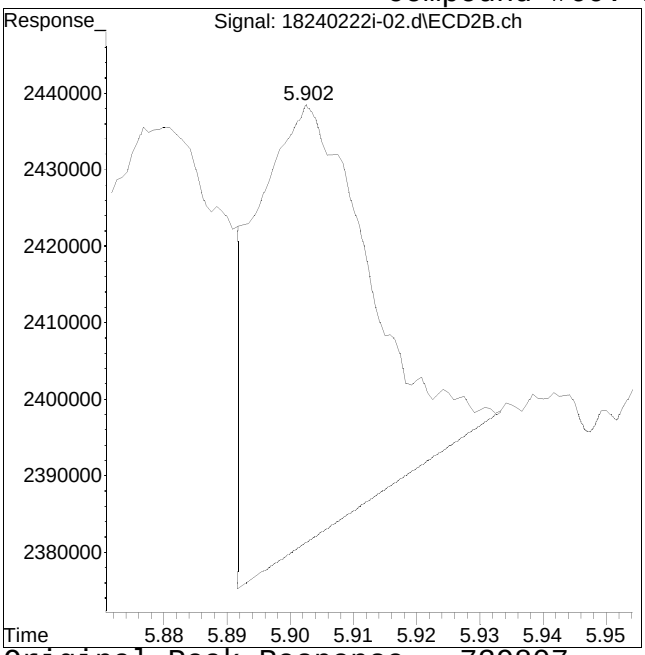


Original Peak Response = 15745661 Manual Peak Response = 1107075 M4
M4 = Poor automated baseline construction.

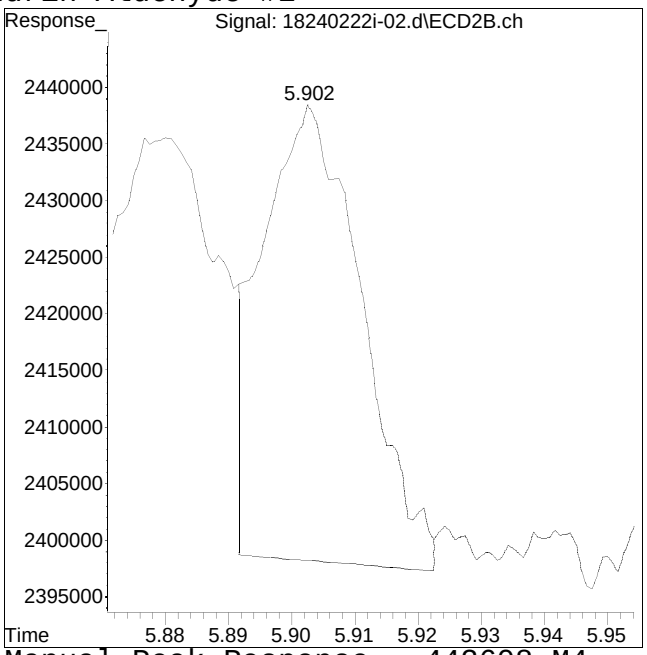
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 739807



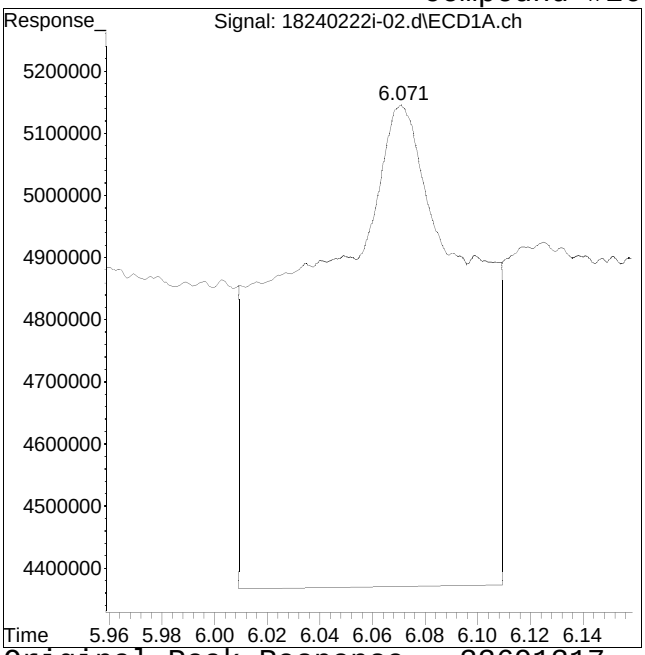
Manual Peak Response = 442608 M4

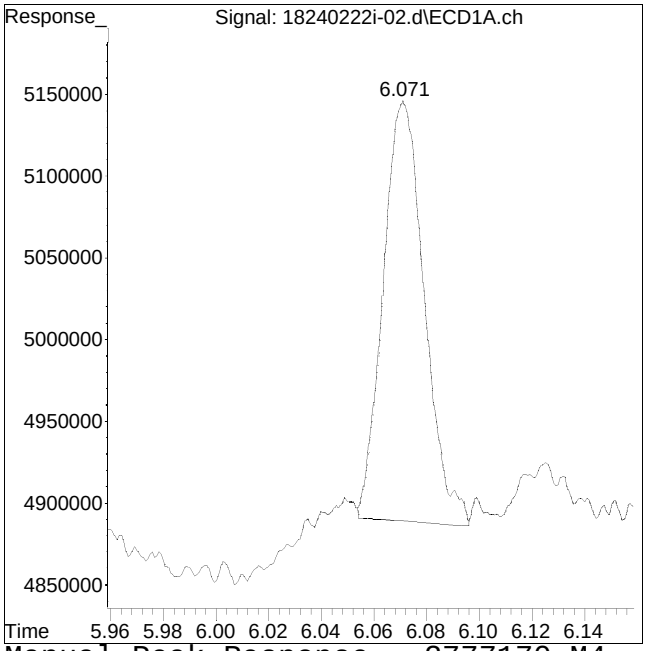
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-02.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 12:57 pm Instrument : Pest 18
Sample : pem18240222i-01,42e,,pp 11Quant Date : 3/1/2024 9:55 am

Compound #26: Endrin Ketone





Original Peak Response = 33691317 Manual Peak Response = 2777170 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:08 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:15:19 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:12:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	354.8E6	153.9E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.668	2.982	9234413	3921571	0.540M4	0.530
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:08 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:15:19 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:12:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

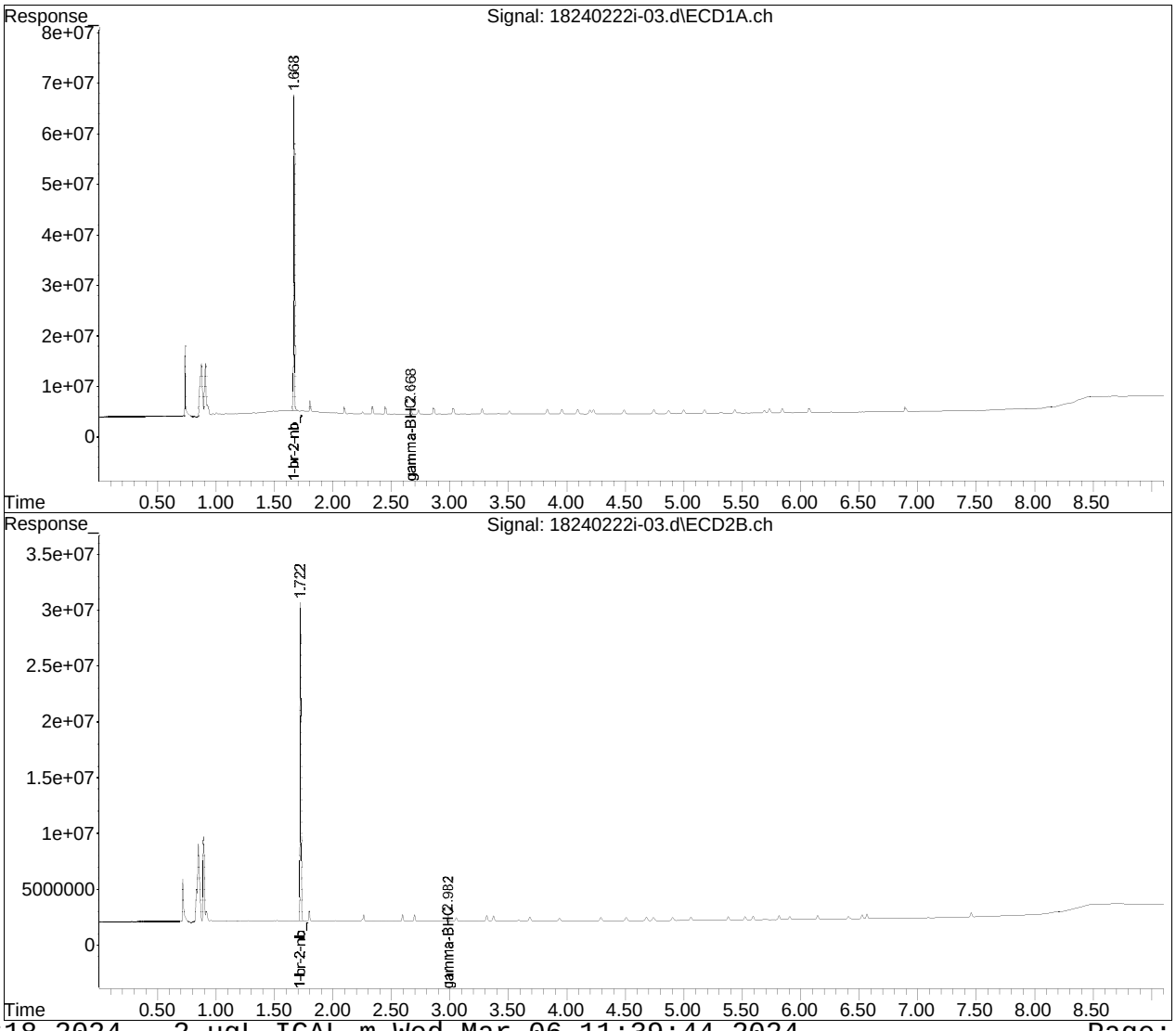
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:08 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:15:19 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:12:38 2024
Response via : Initial Calibration
Integrator: ChemStation

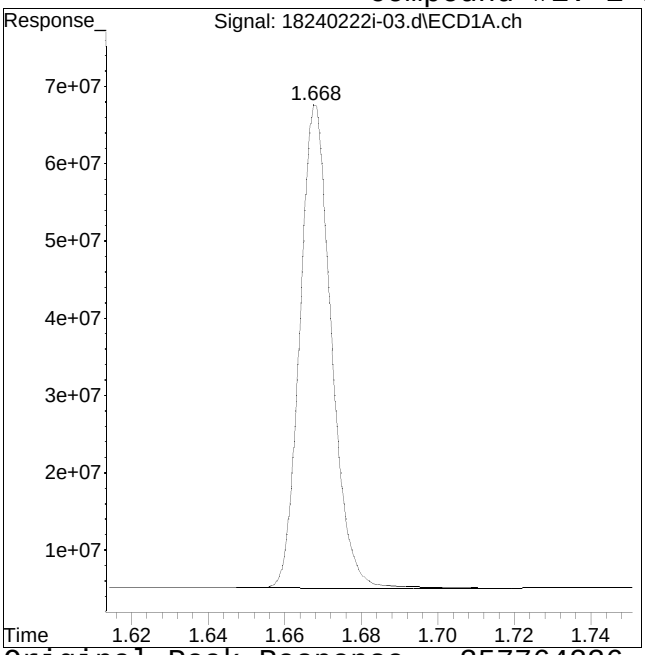
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



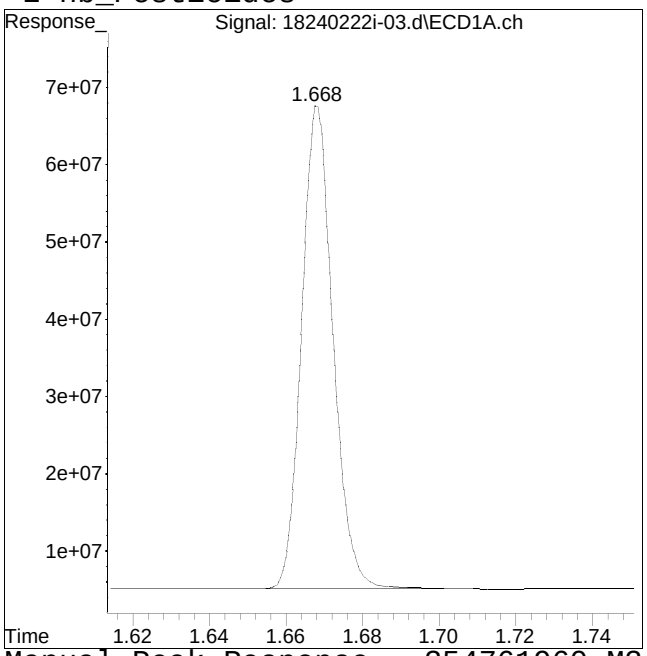
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-03.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:08 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 2/27/2024 3:12 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 357764236



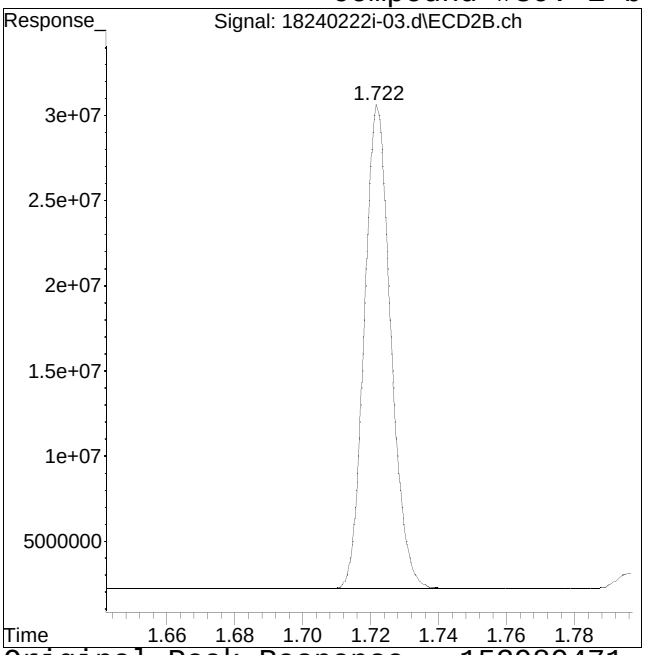
Manual Peak Response = 354761960 M3

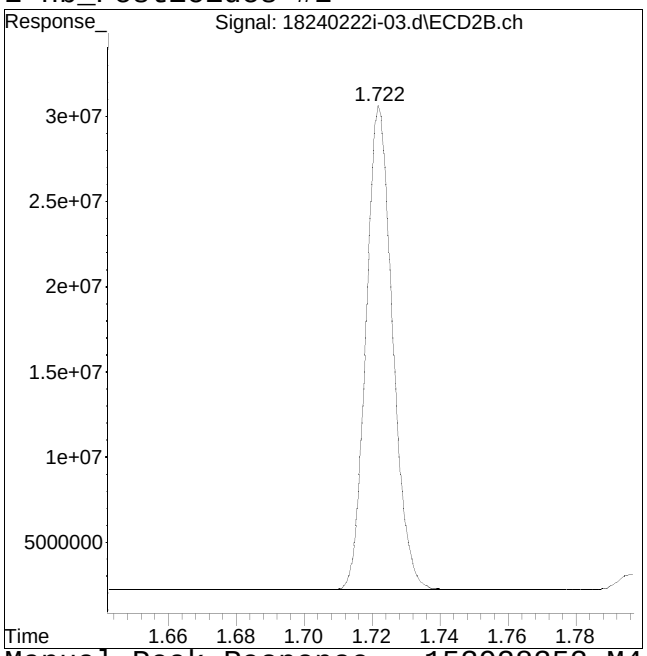
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-03.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:08 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 2/27/2024 3:12 pm

Compound #39: 1-br-2-nb_Pesticides #2



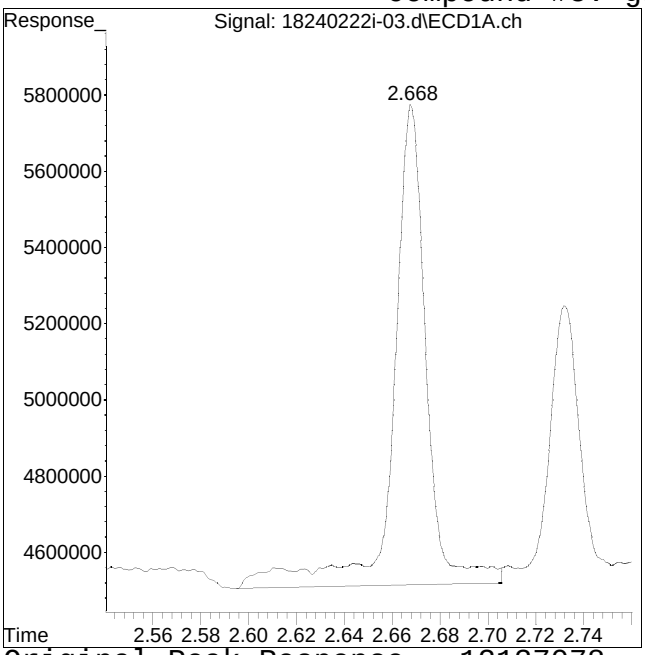


Original Peak Response = 153989471 Manual Peak Response = 153928352 M4
M4 = Poor automated baseline construction.

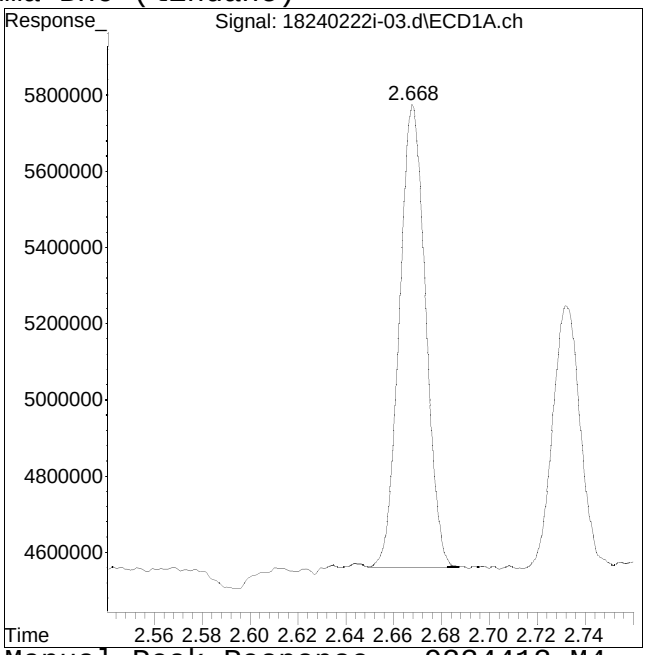
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-03.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:08 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 2/27/2024 3:12 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 12137078



Manual Peak Response = 9234413 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:20 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:11:54 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:05:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	375.5E6	163.5E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	17264767	7103890	1.190	1.109M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.38%#	2.22%#
27) s	Decachlorobi	6.891	7.452	18496749	6711498	1.285M4	1.226
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.57%#	2.45%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.593	19976996	8174743	1.227M4	1.182M4
4)	alpha-BHC	2.450	2.696	19839393	8048197	1.023M4	0.958
5)	gamma-BHC (l	2.668	2.982	19056571	7900108	1.060M3	1.006
6)	beta-BHC	2.732	3.053	10804144	4526469	1.254M3	1.180
7)	delta-BHC	2.863	3.313	19533933	8039892	1.078M4	1.011M4
8)	Heptachlor	3.029	3.371	20718296	8389422	1.163M3	1.082M4
9)	Aldrin	3.275	3.681	17738597	7049214	1.103M4	1.015
10)	Alachlor	3.415	3.586	3266264	1485204	1.167M4	1.237
11)	Chlorpyrifos	3.509	3.934	10909122	4745098	1.266M4	1.220
12)	Heptachlor E	3.831	4.289	17805117	7194951	1.159M3	1.072
13)	gamma-Chlord	3.956	4.505	16856152	6653171	1.170M4	1.085
14)	alpha-Chlord	4.091	4.678	18553393	7616568	1.171M3	1.103
15)	4,4'-DDE	4.197	4.902	16943831	6582352	1.121	1.009
16)	Endosulfan I	4.226	4.738	17050458	7005774	1.174M4	1.095
17)	Dieldrin	4.487	5.059	16837636	6789932	1.109M4	1.044
18)	Endrin	4.742	5.377	17937630	6216774	1.147M4	0.967
19)	4,4'-DDD	4.868	5.521	14153316	5842194	1.143	1.082

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:20 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:11:54 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:05:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	4.997	5.590	16024731	6604144	1.176M4	1.117
21)	4,4'-DDT	5.175	5.811	14397284	6663852	1.054M4	1.071
22)	Endrin Aldeh	5.434	5.903	13212325	5340625	1.166M4	1.086
23)	Methoxychlor	5.686	6.404	9816279	4322888	1.270M4	1.209
24)	Mirex	5.729	6.521	16708415	6731102	1.336M4	1.258
25)	Endosulfan S	5.838	6.141	15990229	6465443	1.193M3	1.139
26)	Endrin Keton	6.069	6.561	17492861	7152371	1.181M4	1.095M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

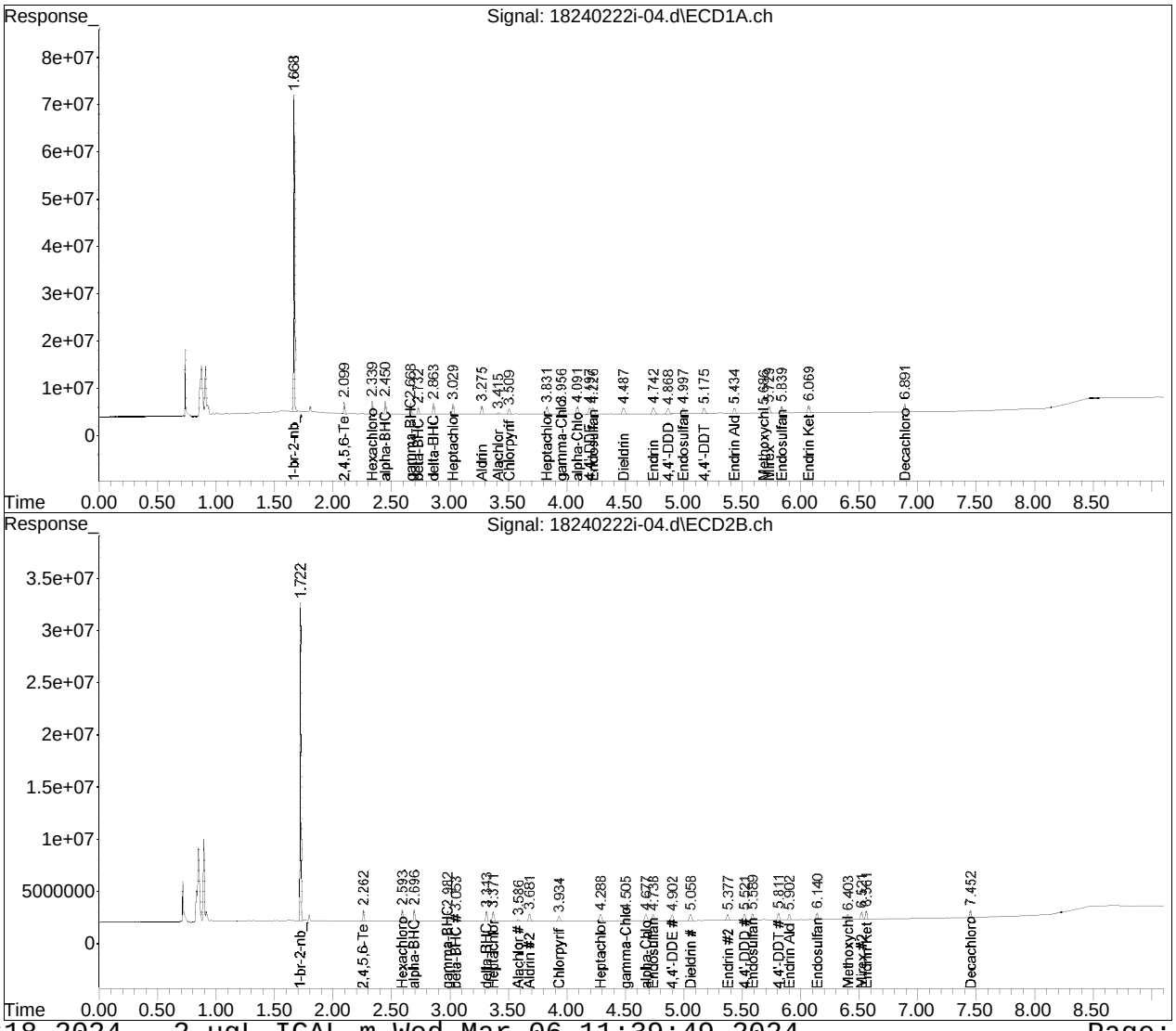
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:20 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:11:54 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:05:52 2024
Response via : Initial Calibration
Integrator: ChemStation

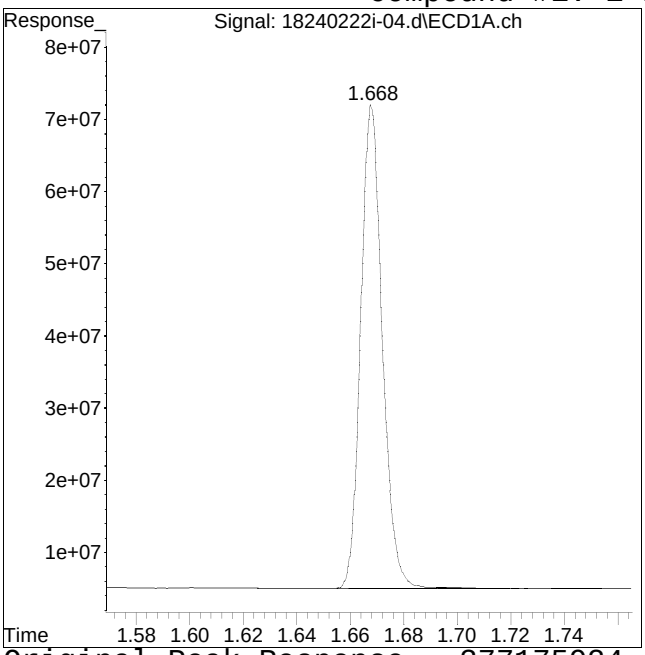
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

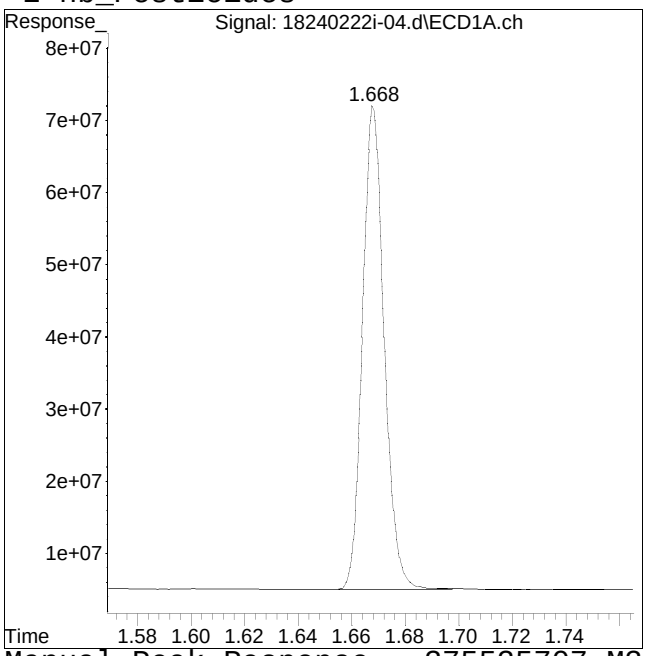


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #1: 1-br-2-nb_Pesticides



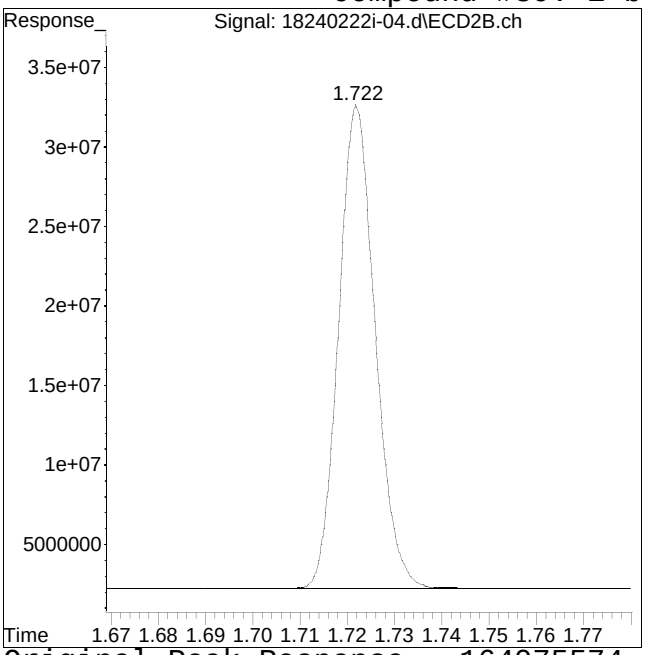


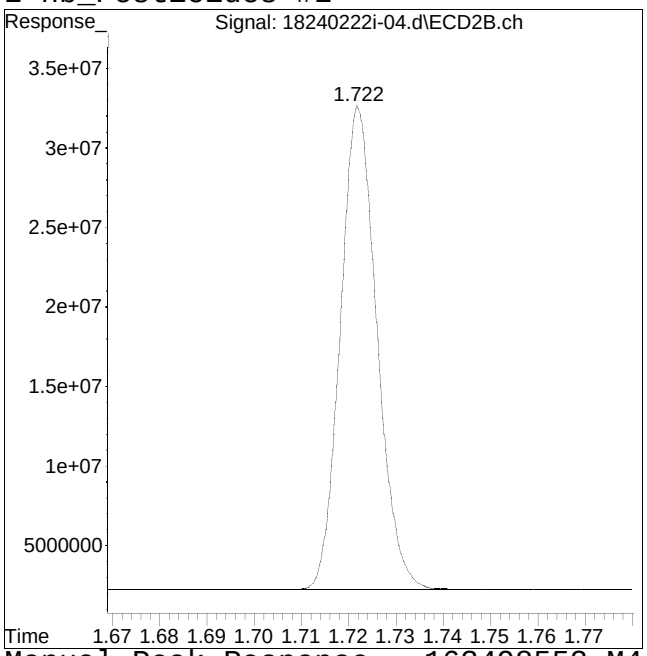
Original Peak Response = 377175924 Manual Peak Response = 375535707 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #39: 1-br-2-nb_Pesticides #2



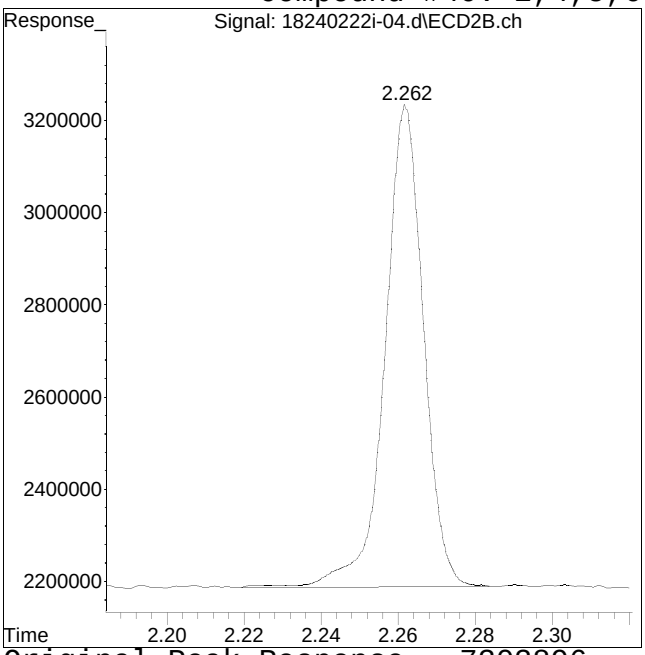


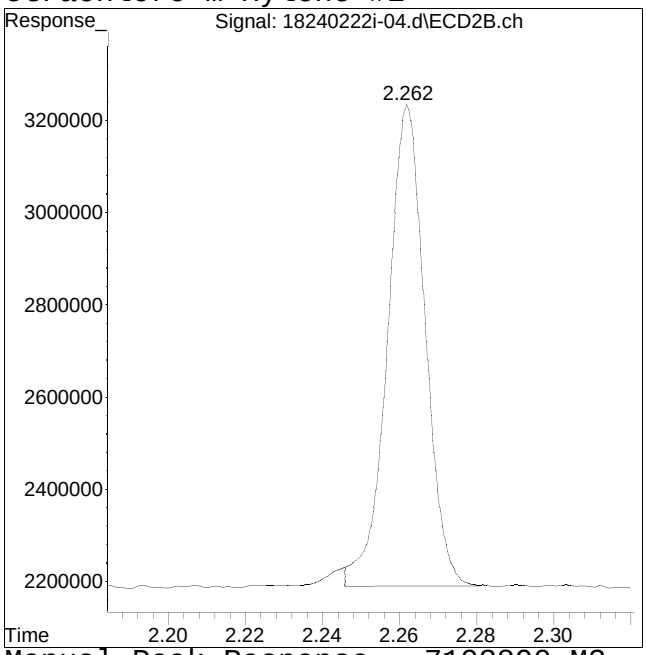
Original Peak Response = 164075574 Manual Peak Response = 163498552 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



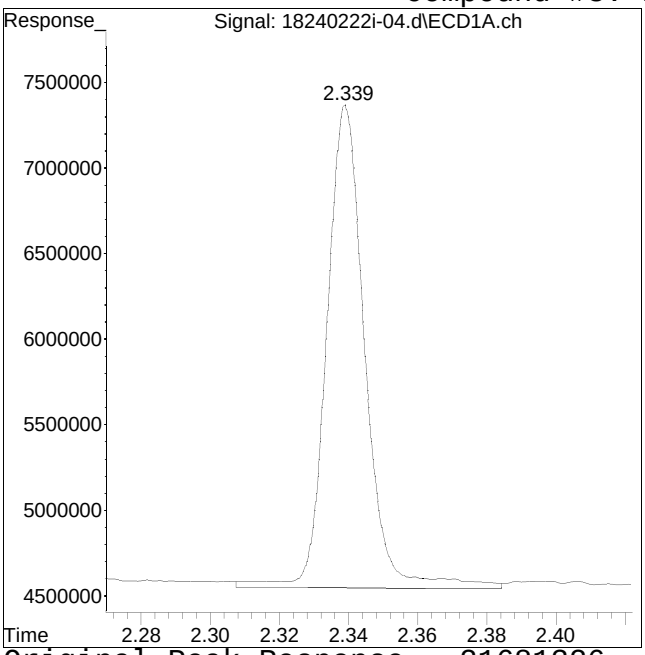


Original Peak Response = 7303896 Manual Peak Response = 7103890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

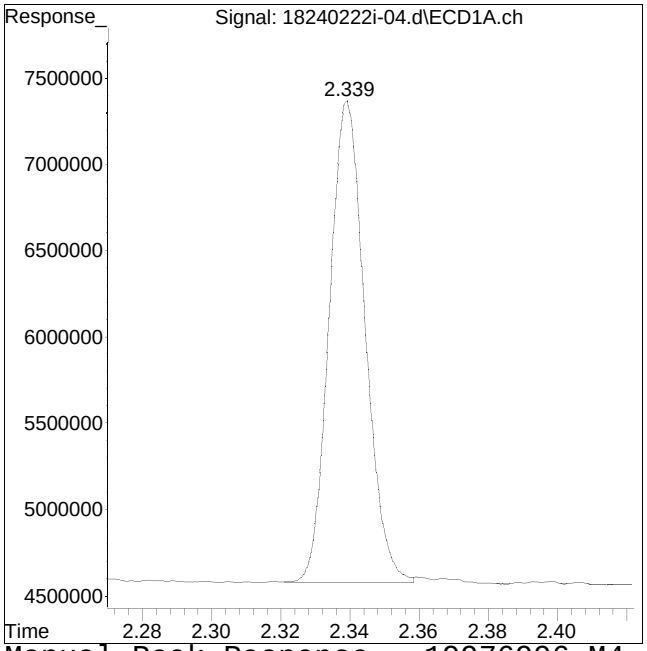
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 21681326



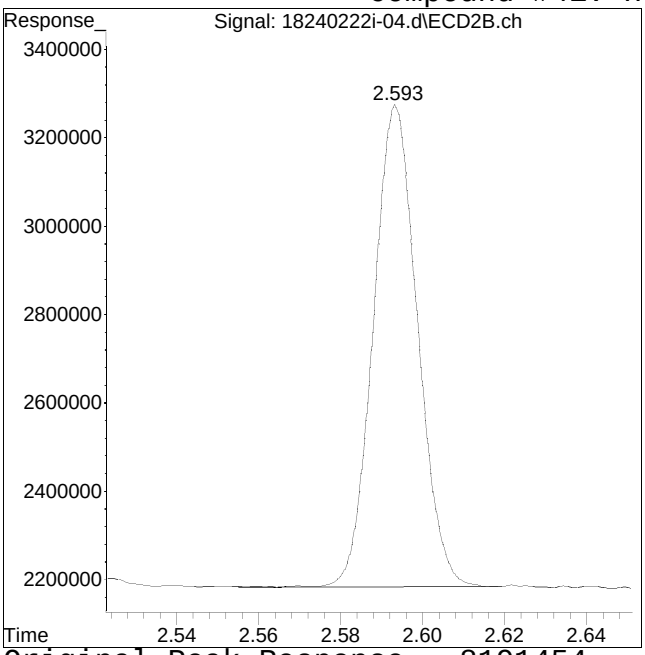
Manual Peak Response = 19976996 M4

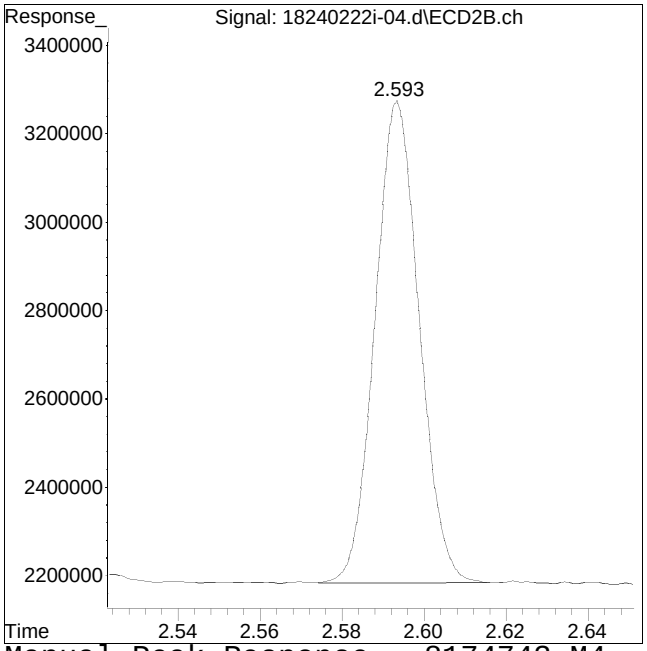
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #41: Hexachlorobenzene #2



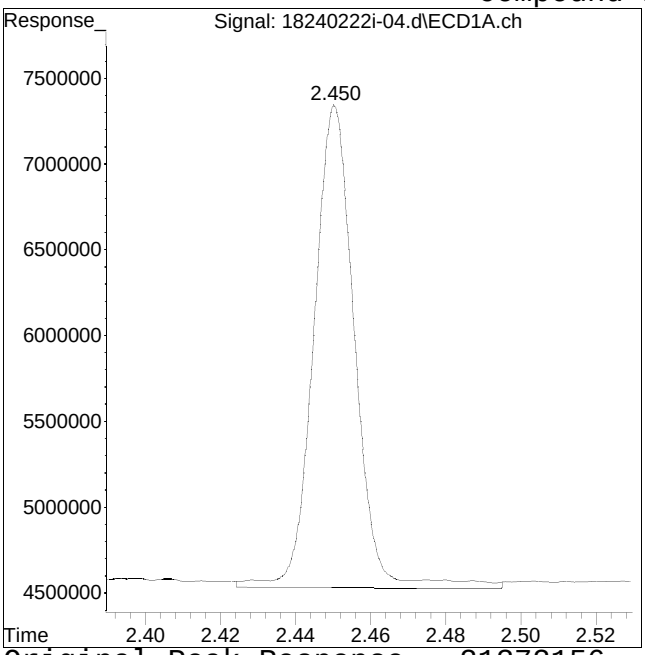


Original Peak Response = 8191454 Manual Peak Response = 8174743 M4
M4 = Poor automated baseline construction.

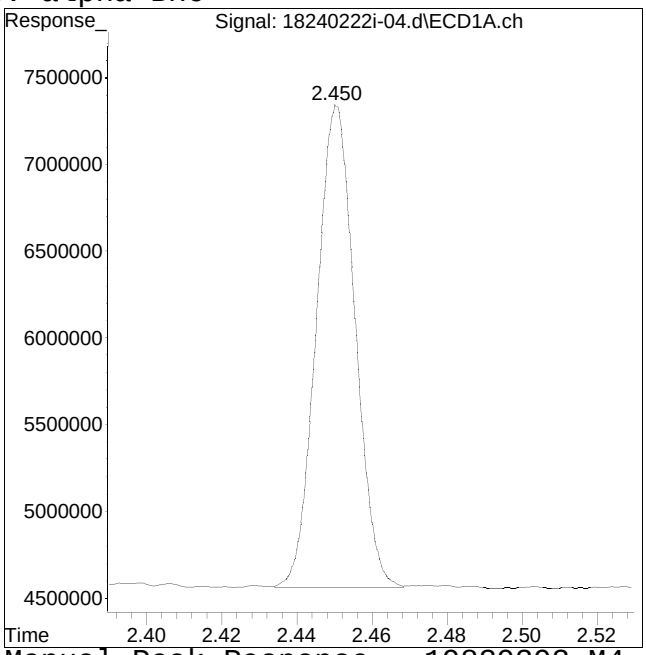
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #4: alpha-BHC



Original Peak Response = 21372156



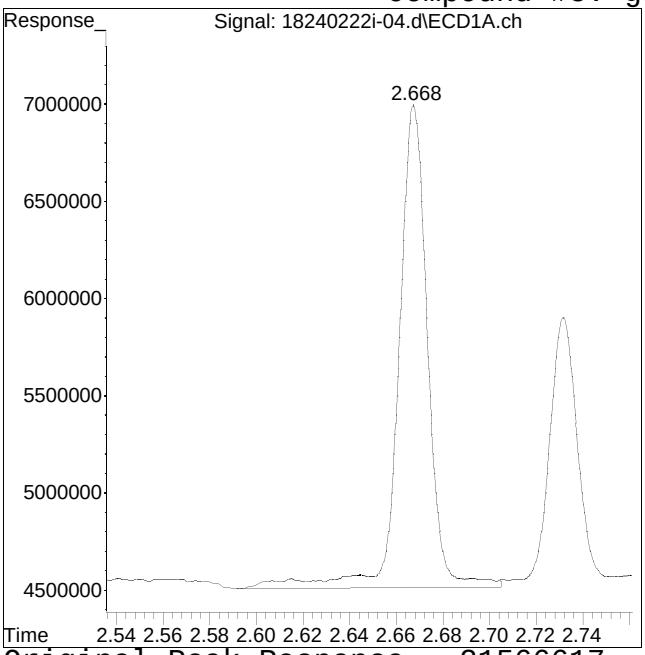
Manual Peak Response = 19839393 M4

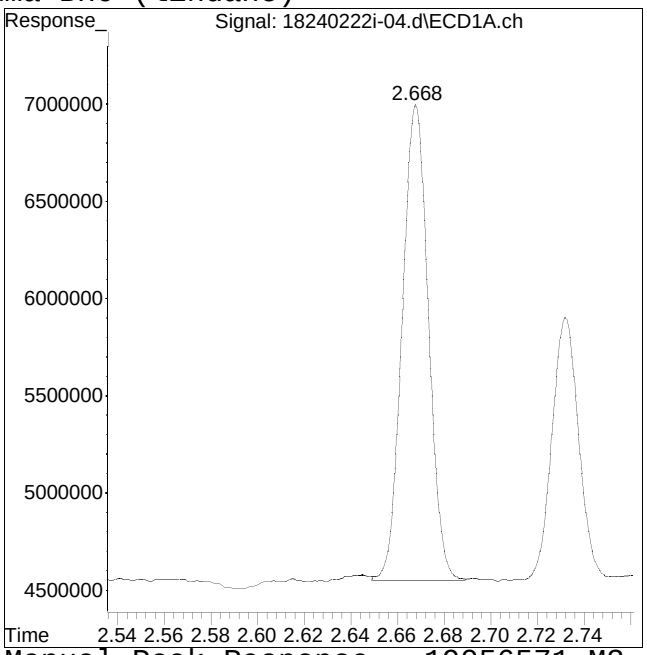
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #5: gamma-BHC (lindane)



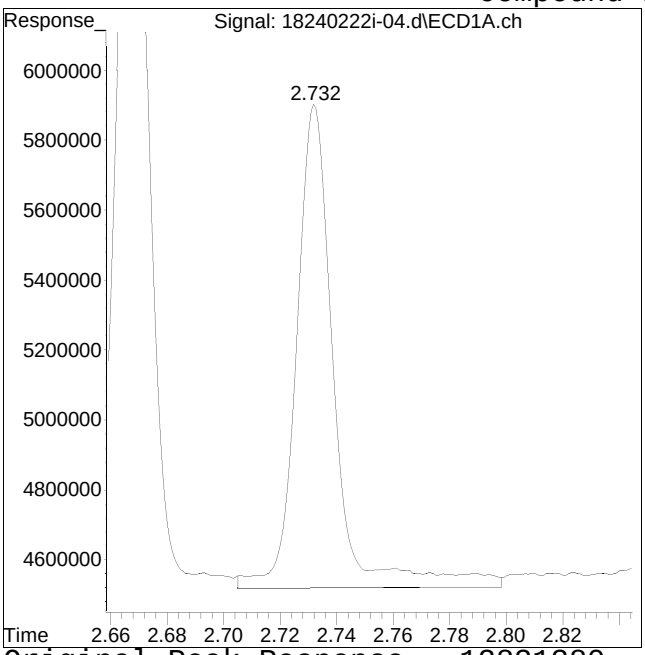


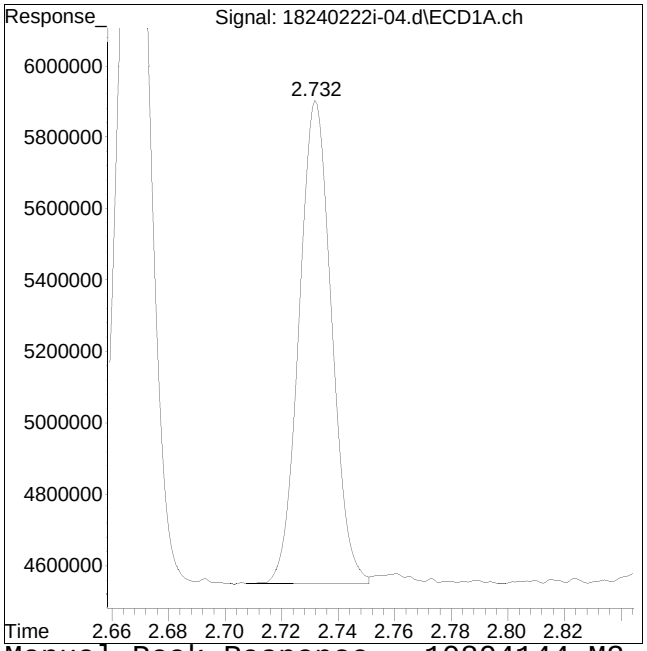
Original Peak Response = 21566617 Manual Peak Response = 19056571 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #6: beta-BHC



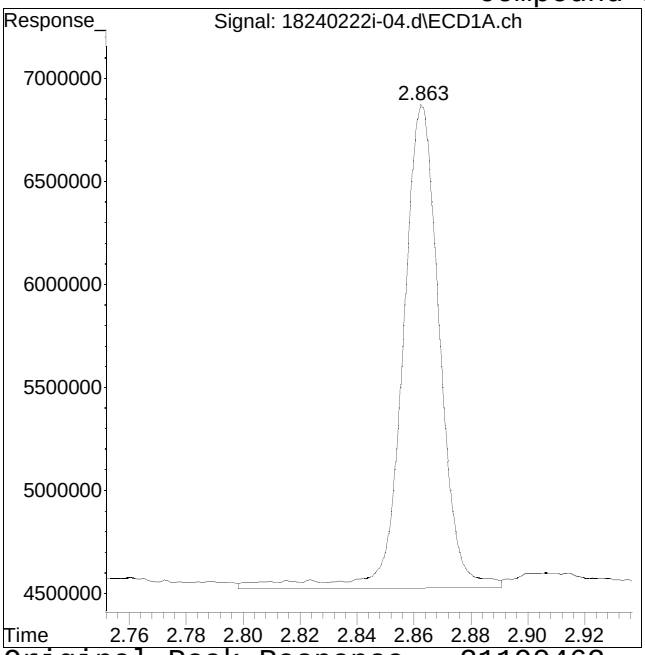


Original Peak Response = 12831380 Manual Peak Response = 10804144 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

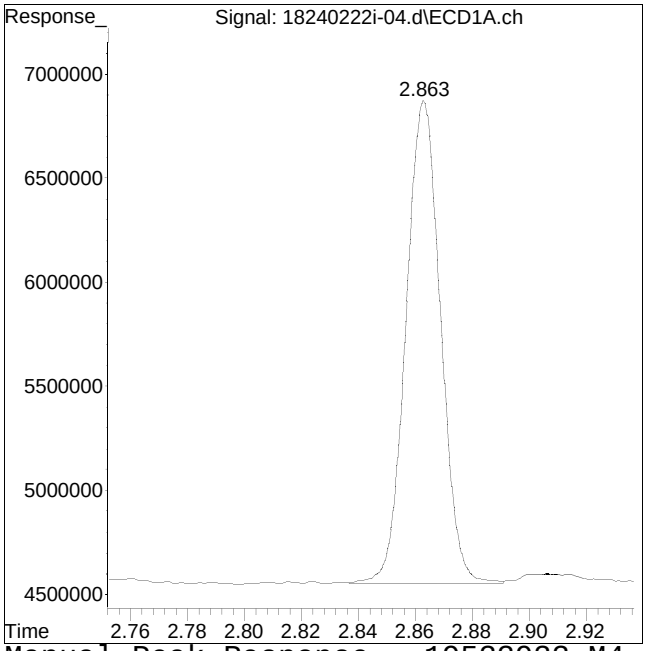
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #7: delta-BHC



Original Peak Response = 21190462



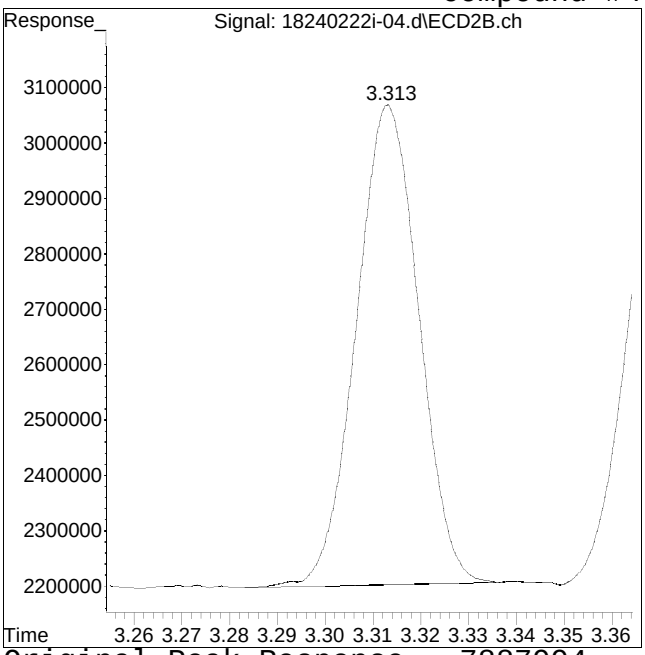
Manual Peak Response = 19533933 M4

M4 = Poor automated baseline construction.

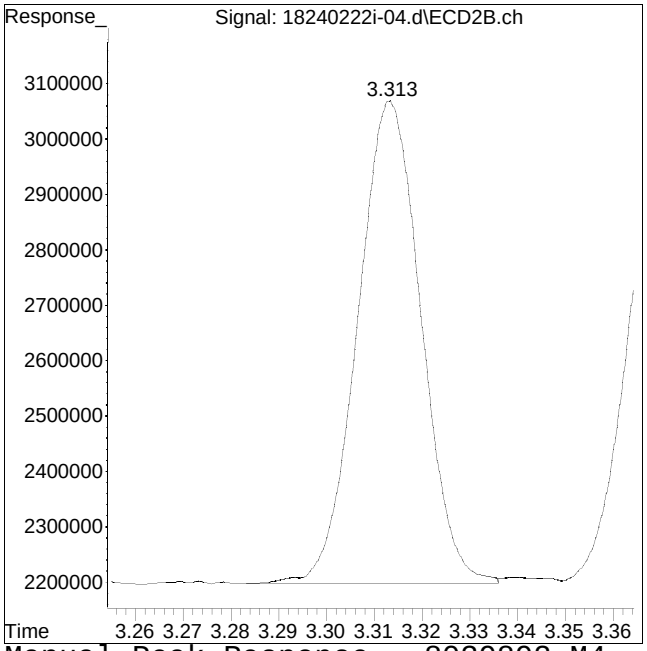
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #45: delta-BHC #2



Original Peak Response = 7887994



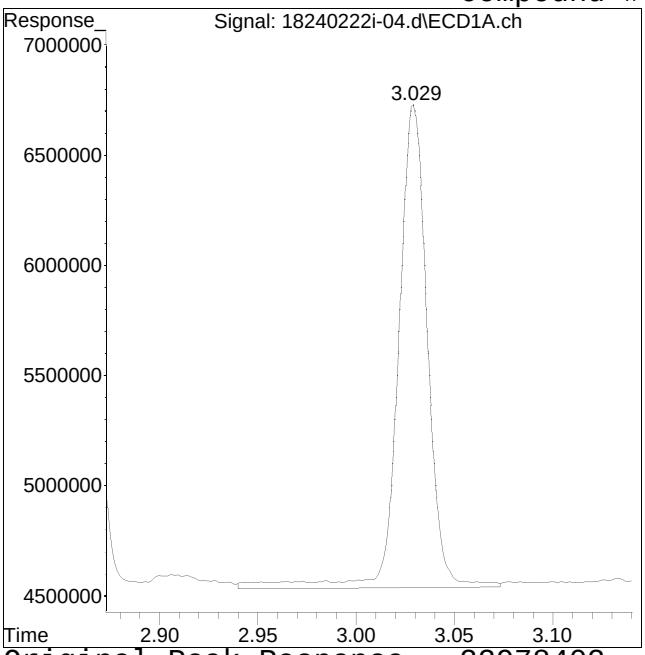
Manual Peak Response = 8039892 M4

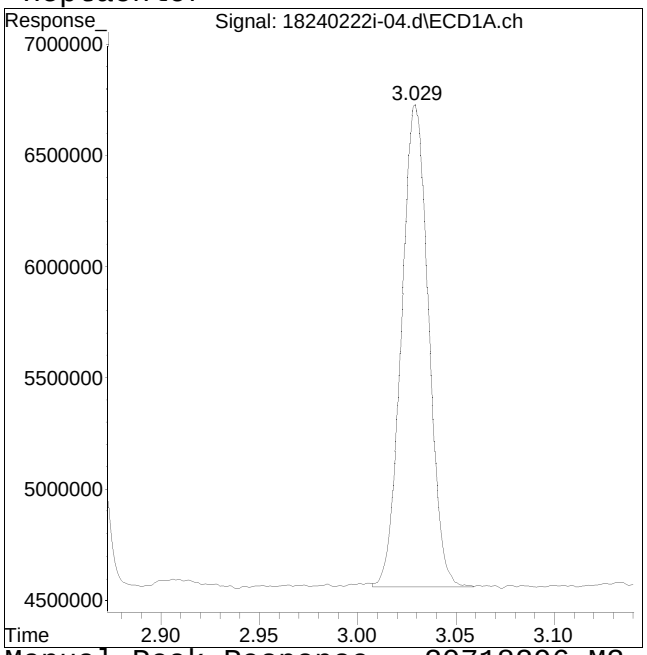
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #8: Heptachlor



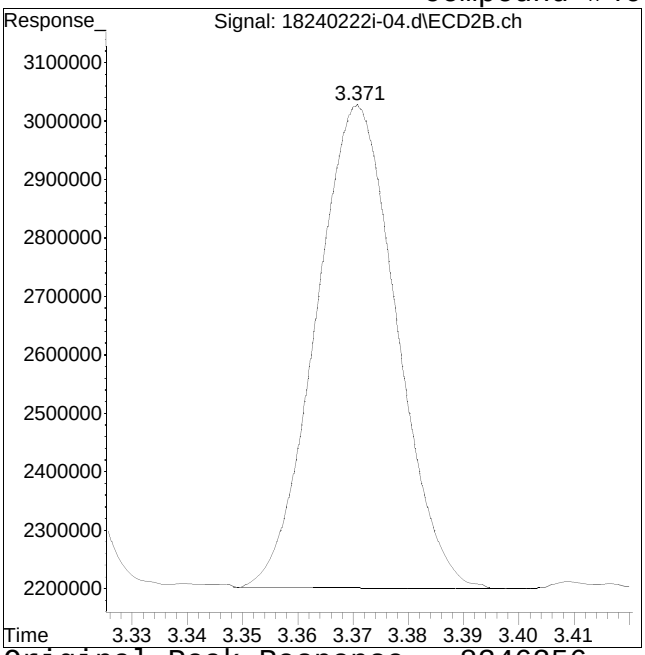


Original Peak Response = 22978402 Manual Peak Response = 20718296 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

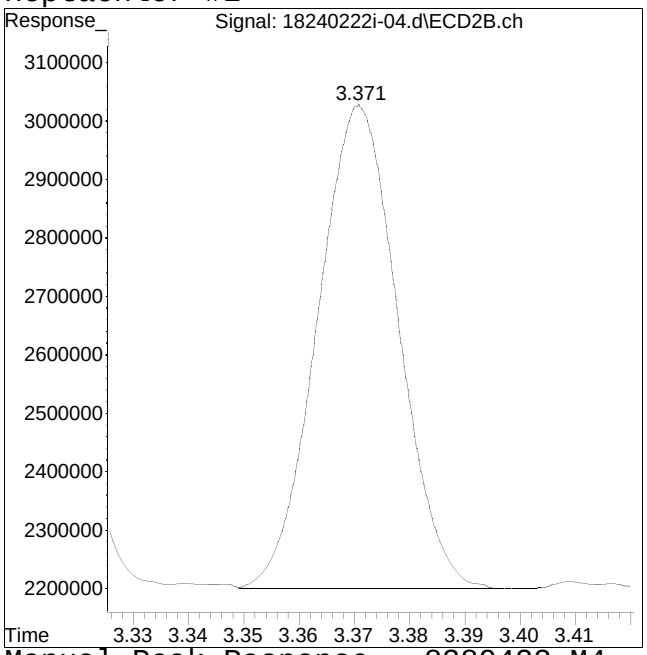
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #46: Heptachlor #2



Original Peak Response = 8346256



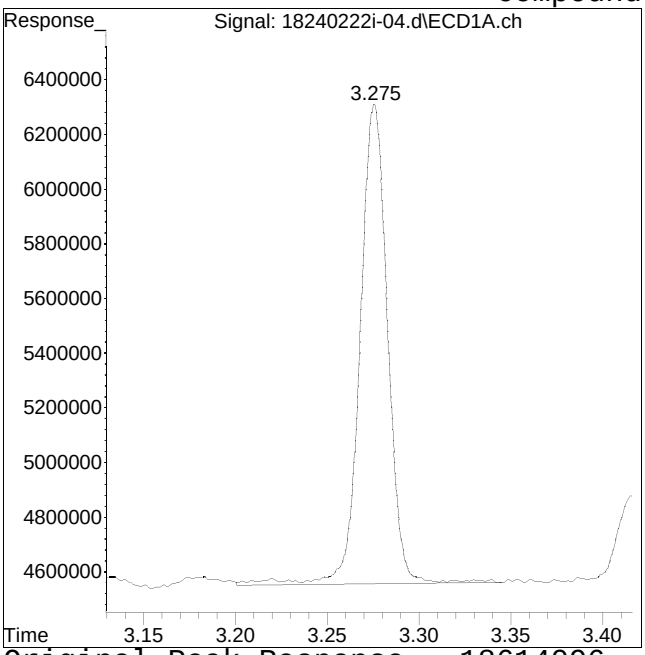
Manual Peak Response = 8389422 M4

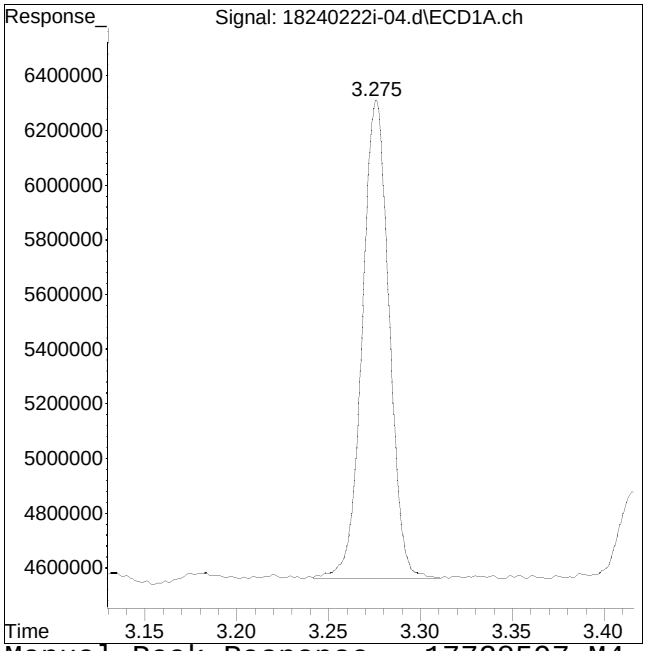
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #9: Aldrin



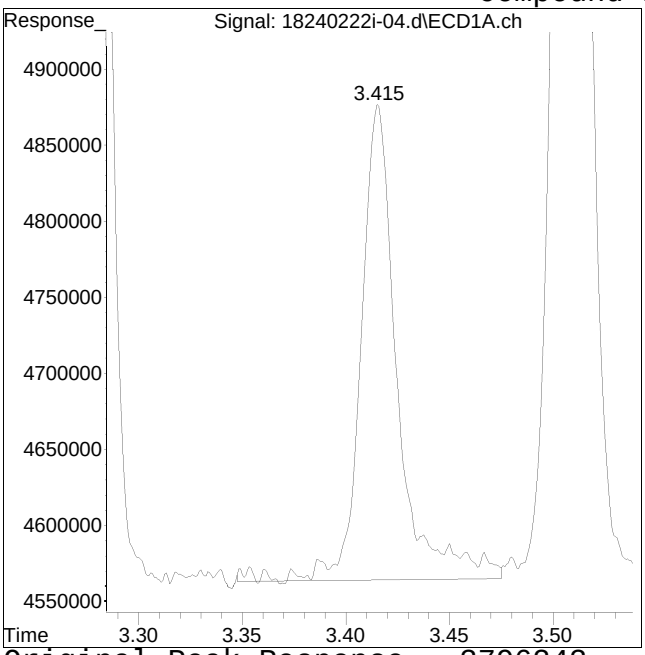


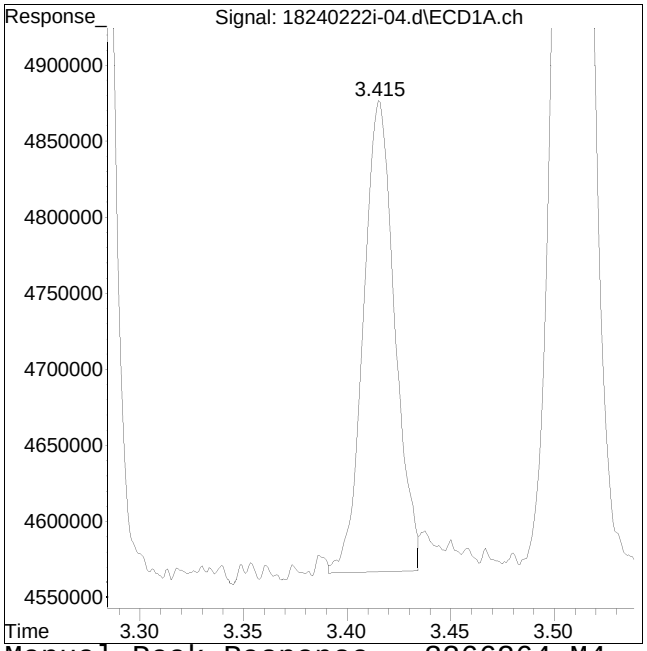
Original Peak Response = 18614096 Manual Peak Response = 17738597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #10: Alachlor



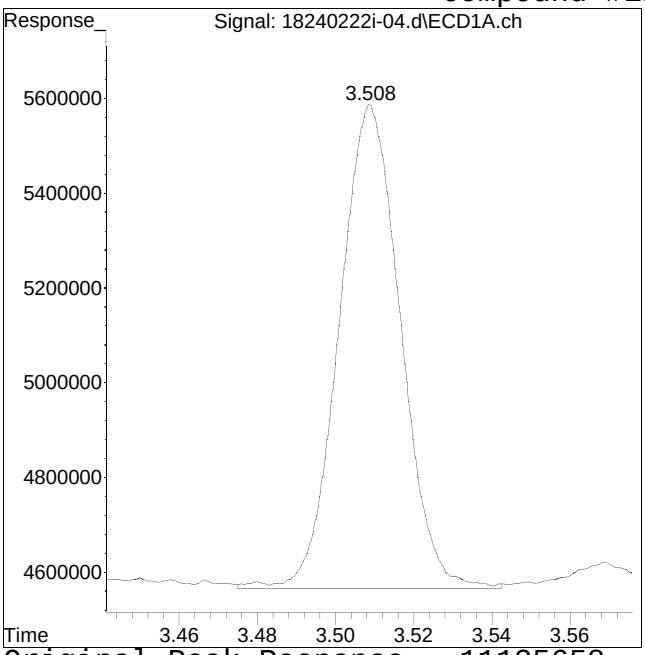


Original Peak Response = 3796243 Manual Peak Response = 3266264 M4
M4 = Poor automated baseline construction.

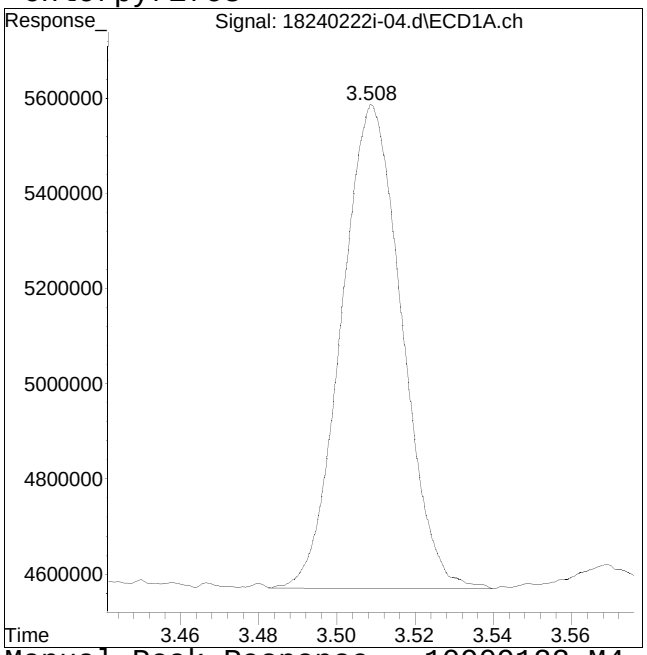
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #11: Chlorpyrifos



Original Peak Response = 11135658

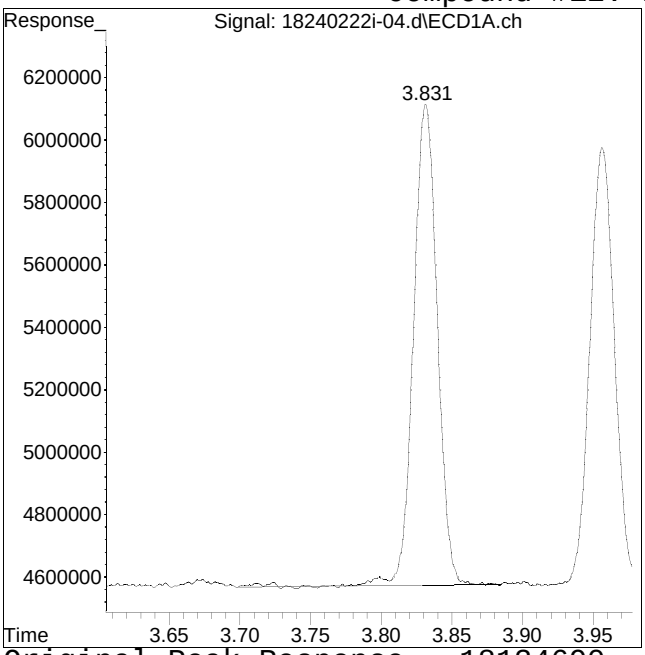


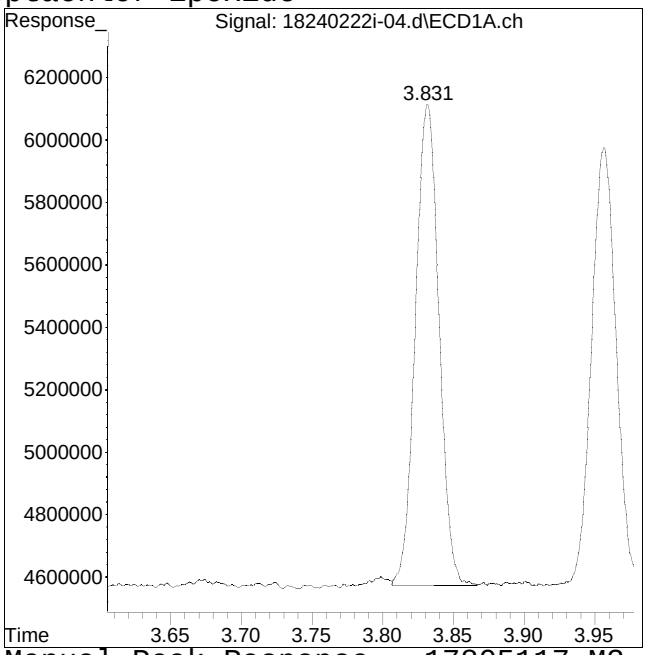
Manual Peak Response = 10909122 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #12: Heptachlor Epoxide



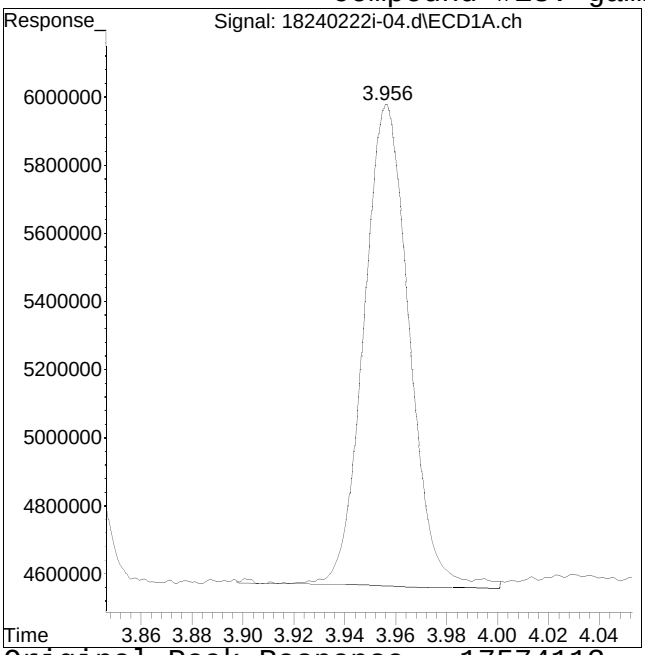


Original Peak Response = 18134690 Manual Peak Response = 17805117 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

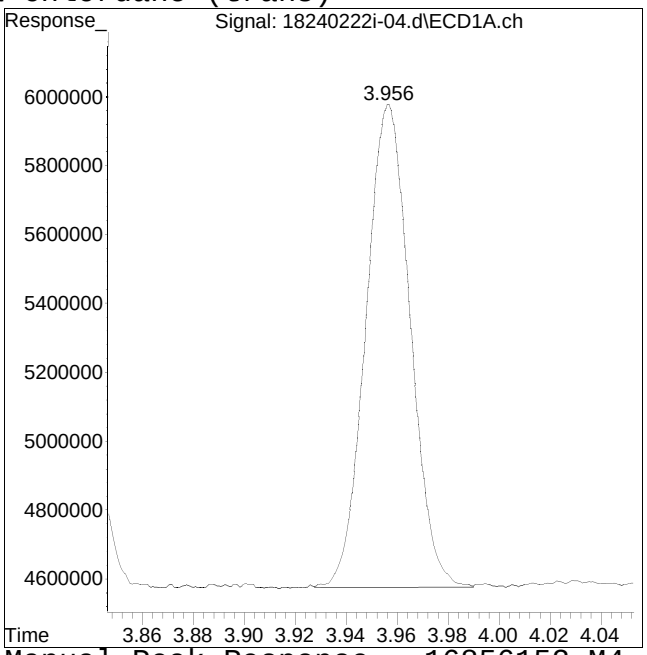
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 17574113



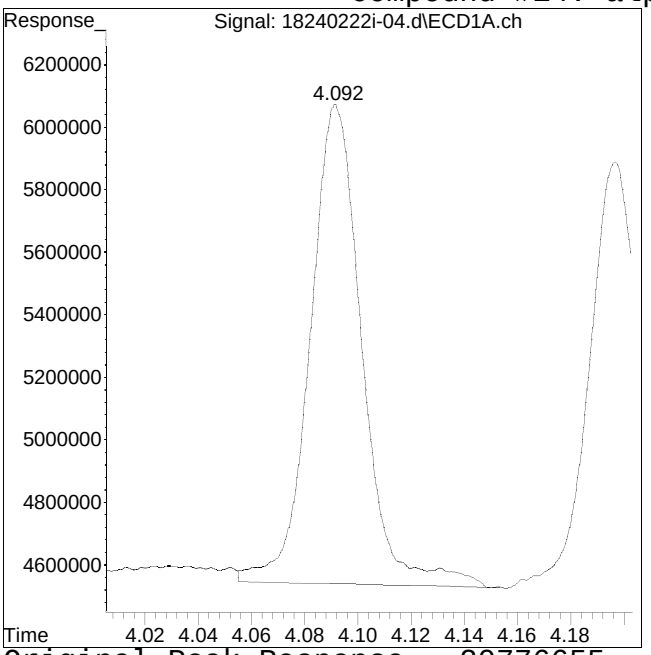
Manual Peak Response = 16856152 M4

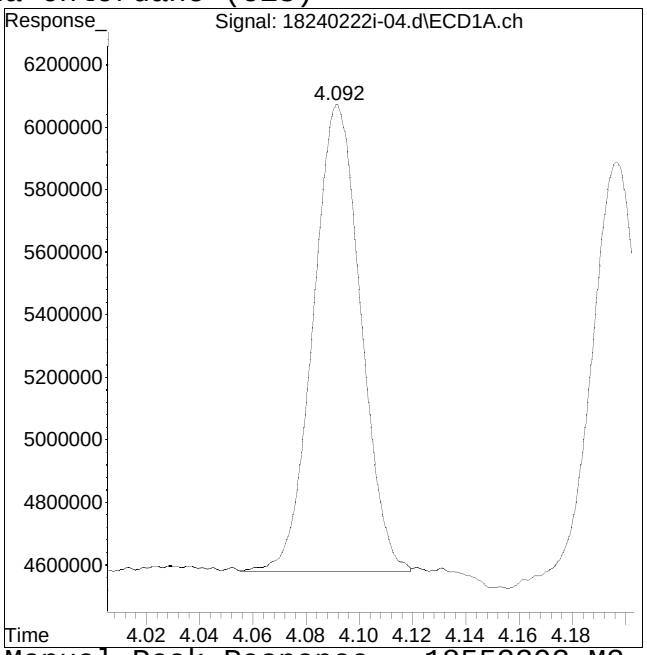
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #14: alpha-Chlordane (cis)



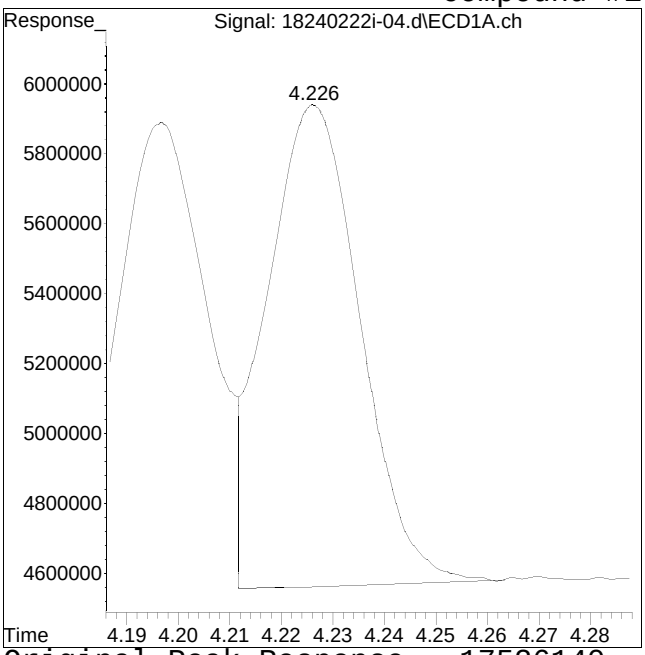


Original Peak Response = 20776655 Manual Peak Response = 18553393 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

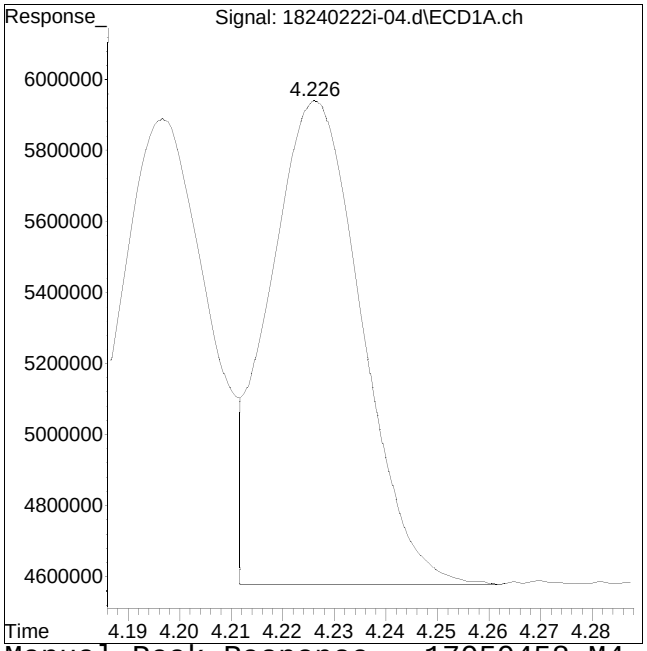
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-04.d
Date Inj'd : 2/22/2024 1:20 pm
Sample : il2pest,42e,,pp 11405 L0.0
Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 3:06 pm

Compound #16: Endosulfan I



Original Peak Response = 17526140



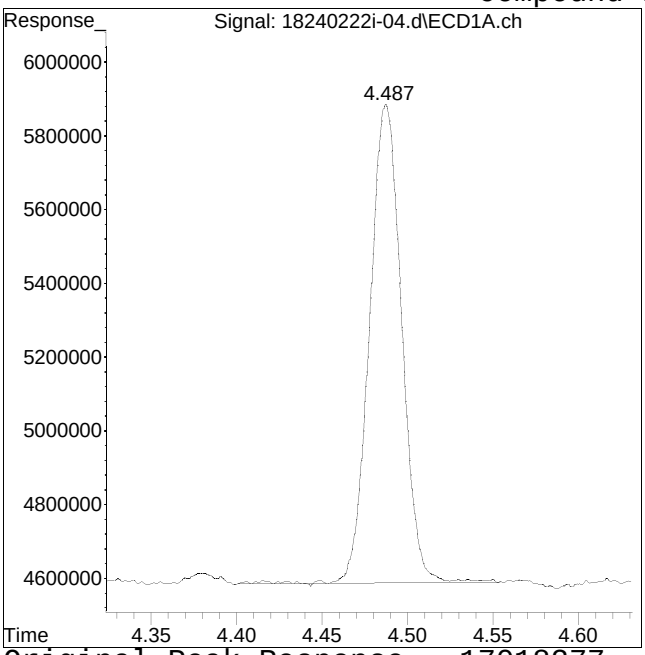
Manual Peak Response = 17050458 M4

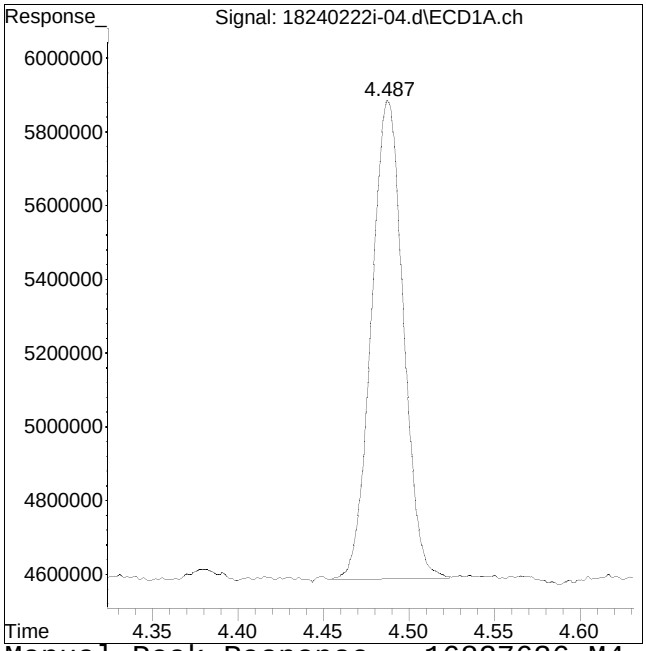
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #17: Dieldrin



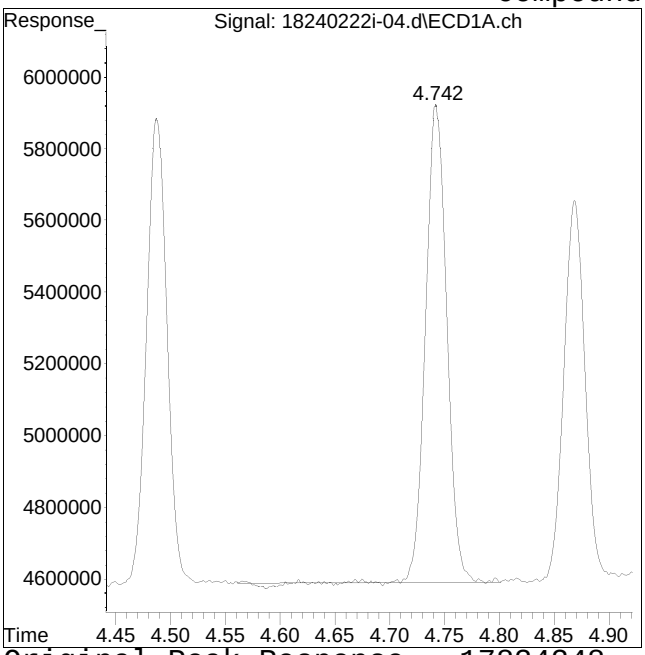


Original Peak Response = 17018277 Manual Peak Response = 16837636 M4
M4 = Poor automated baseline construction.

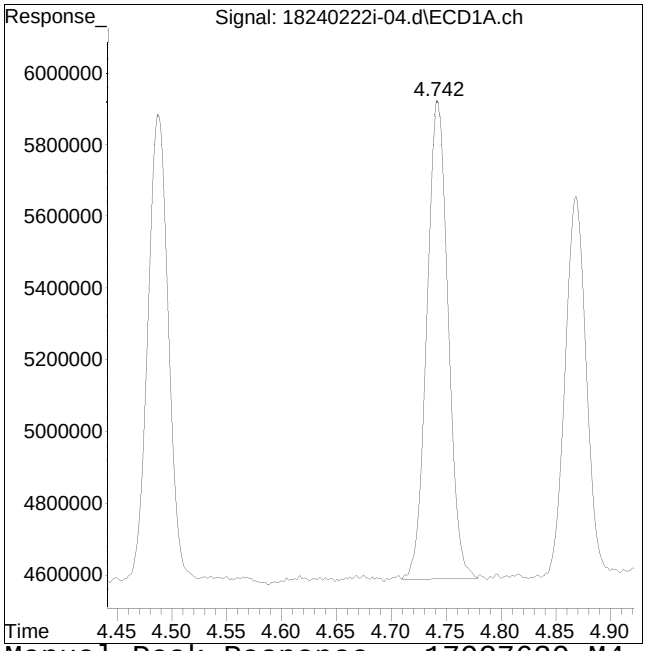
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #18: Endrin



Original Peak Response = 17834248



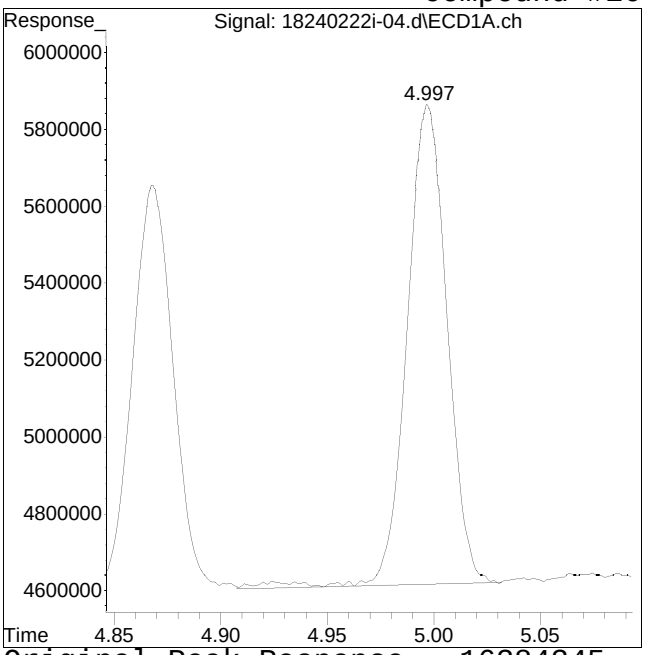
Manual Peak Response = 17937630 M4

M4 = Poor automated baseline construction.

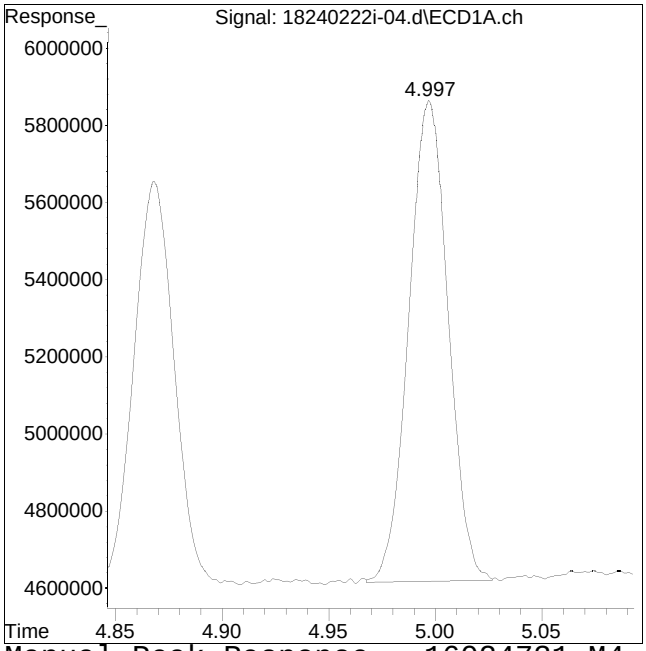
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #20: Endosulfan II



Original Peak Response = 16384345



Manual Peak Response = 16024731 M4

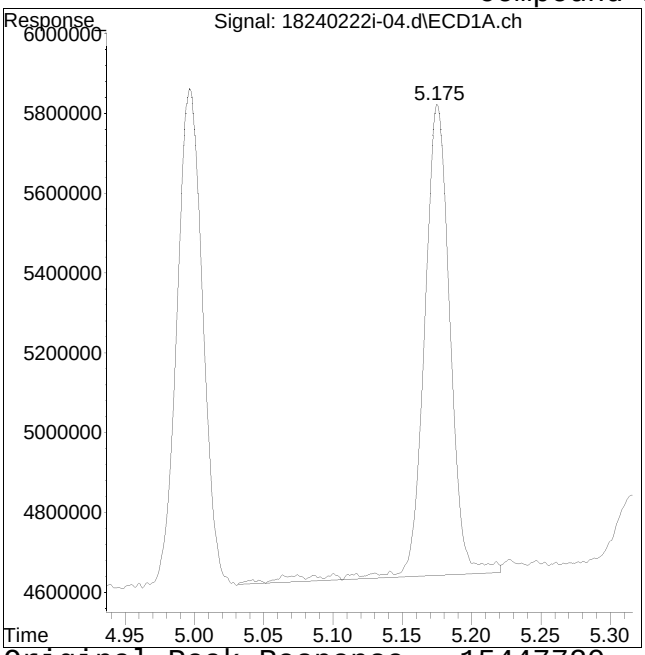
M4 = Poor automated baseline construction.

Manual Integration Report

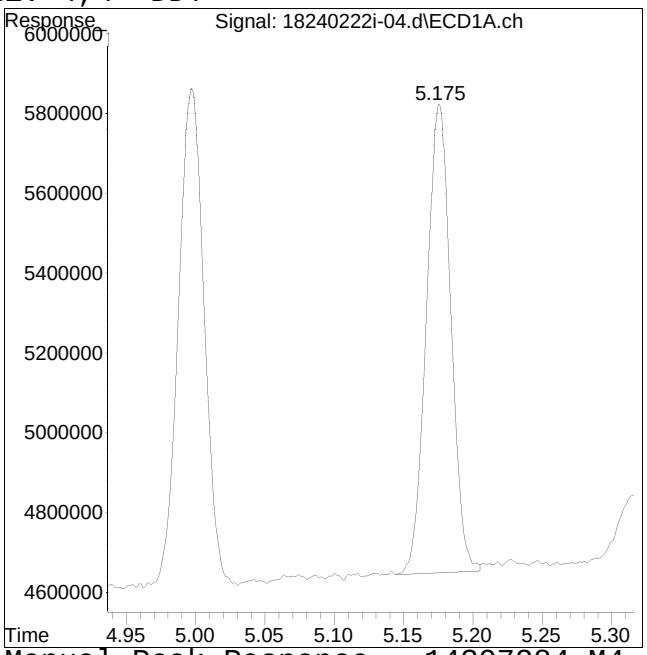
Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-04.d
Date Inj'd : 2/22/2024 1:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 3:06 pm

Compound #21: 4,4'-DDT



Original Peak Response = 15447720



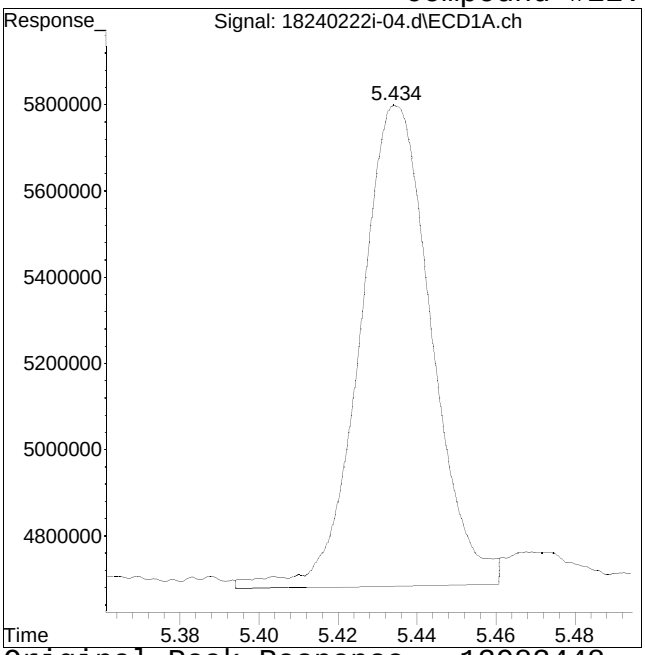
Manual Peak Response = 14397284 M4

M4 = Poor automated baseline construction.

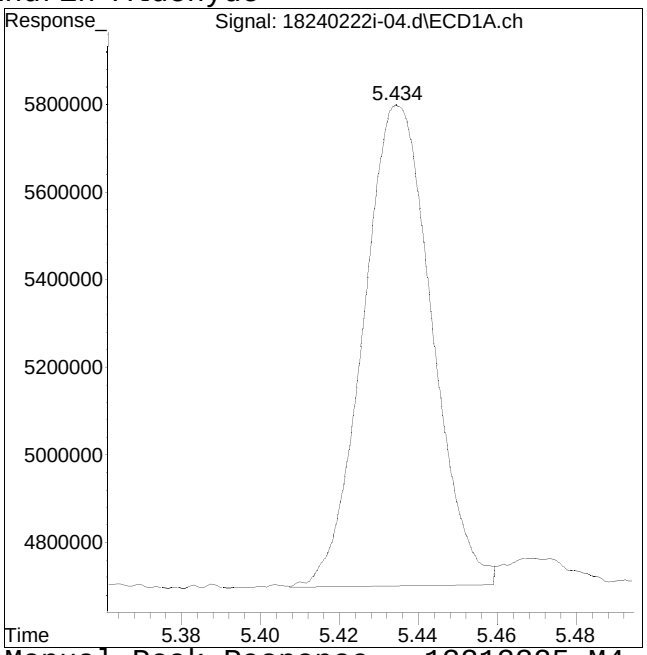
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 13983448



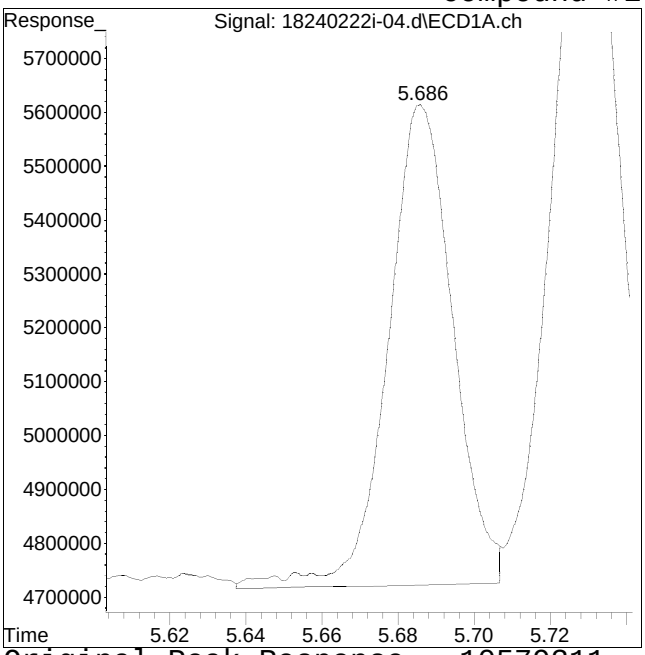
Manual Peak Response = 13212325 M4

M4 = Poor automated baseline construction.

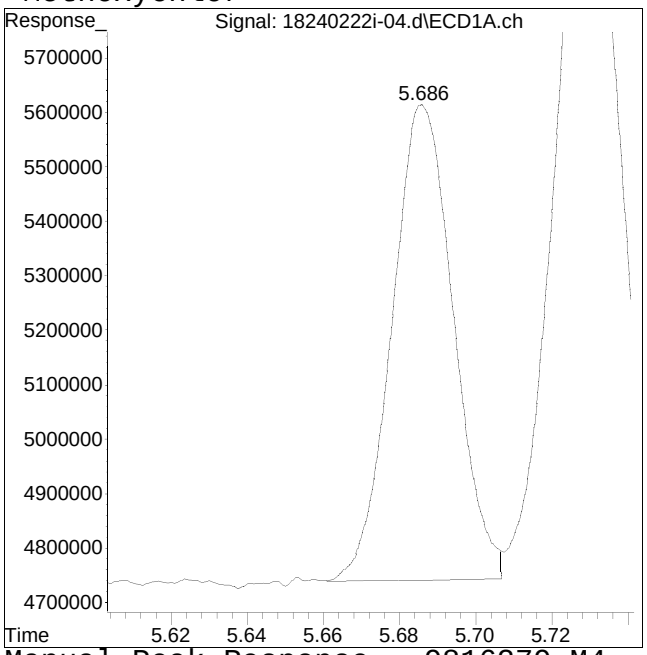
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #23: Methoxychlor



Original Peak Response = 10579311



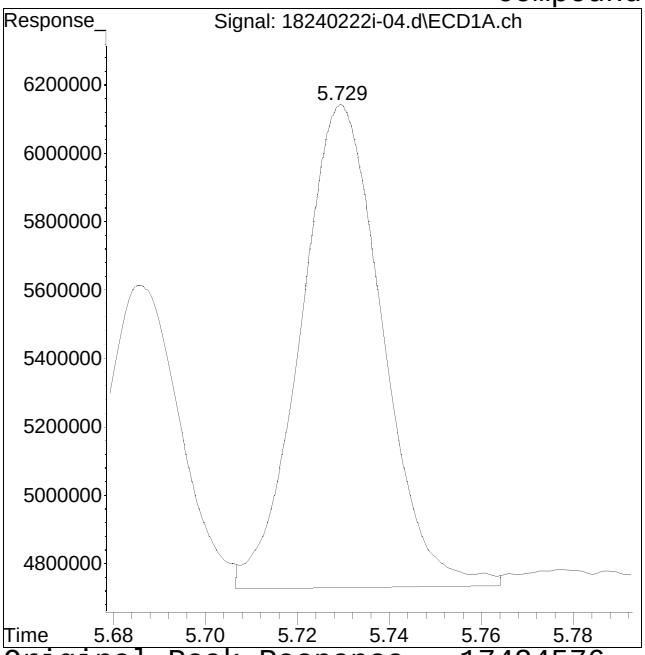
Manual Peak Response = 9816279 M4

M4 = Poor automated baseline construction.

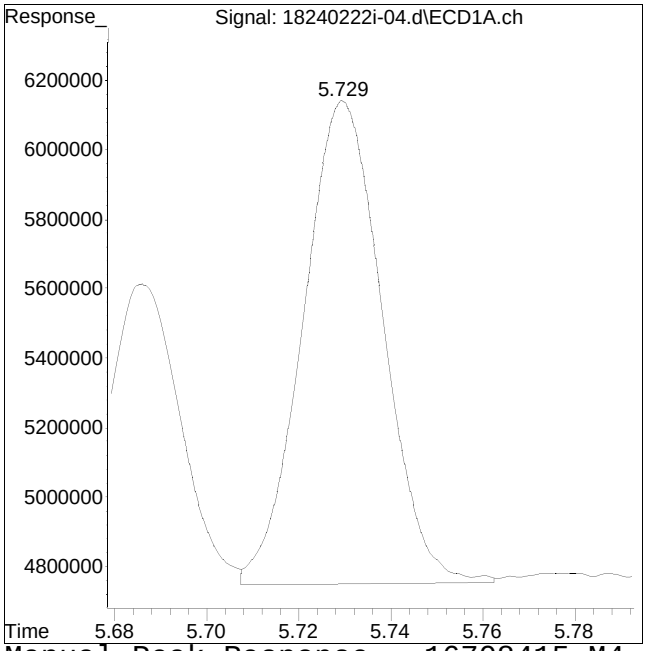
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #24: Mirex



Original Peak Response = 17424576



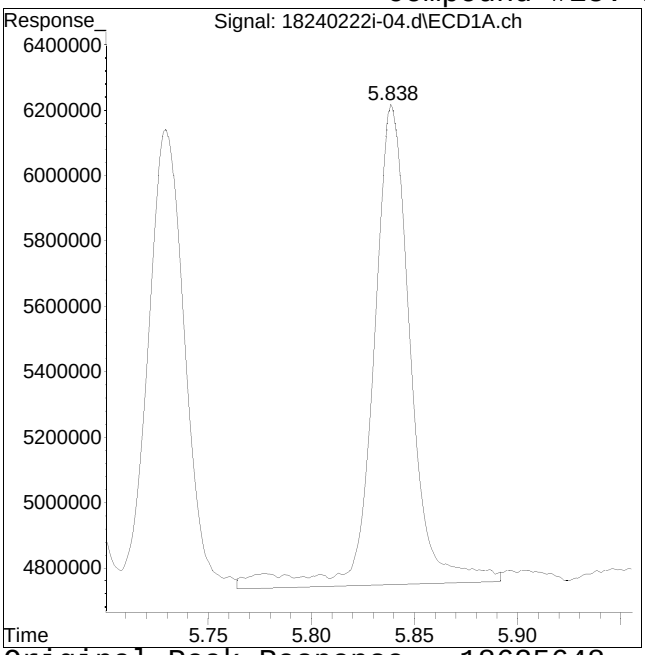
Manual Peak Response = 16708415 M4

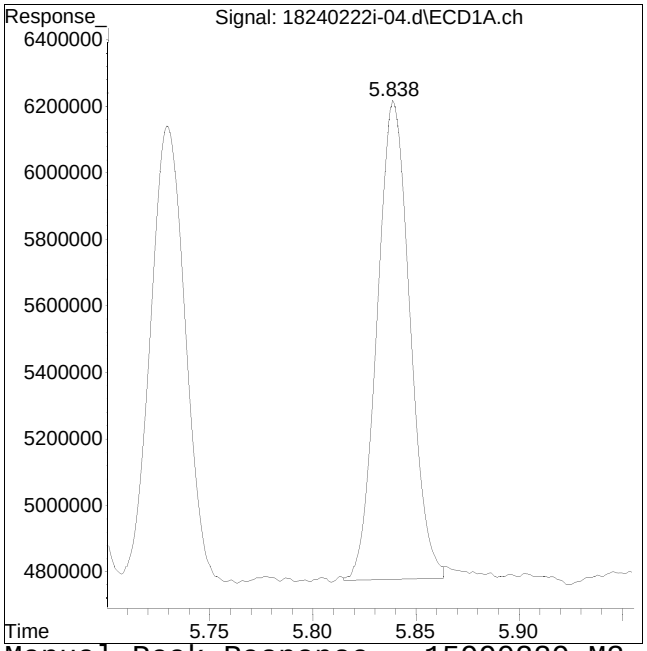
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #25: Endosulfan Sulfate



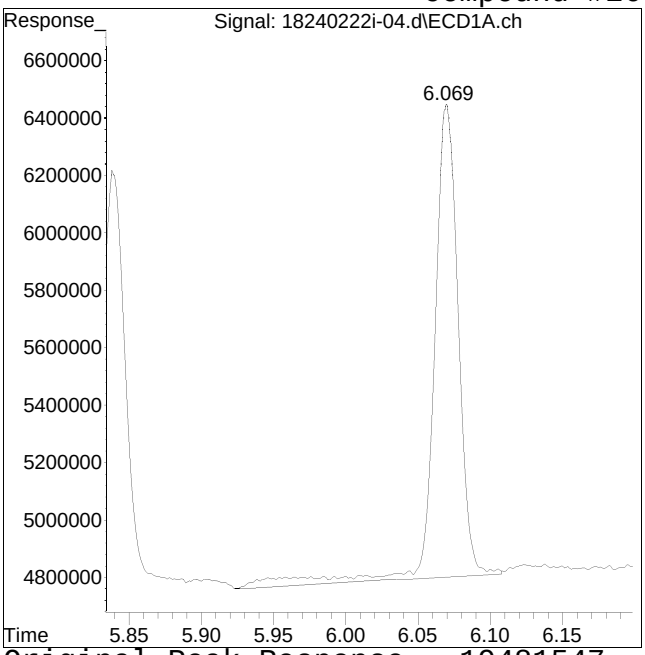


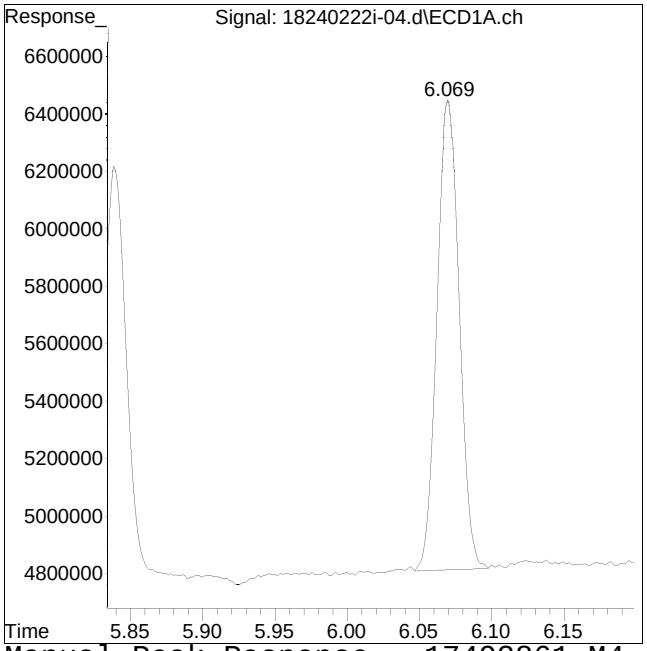
Original Peak Response = 18625648 Manual Peak Response = 15990229 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #26: Endrin Ketone



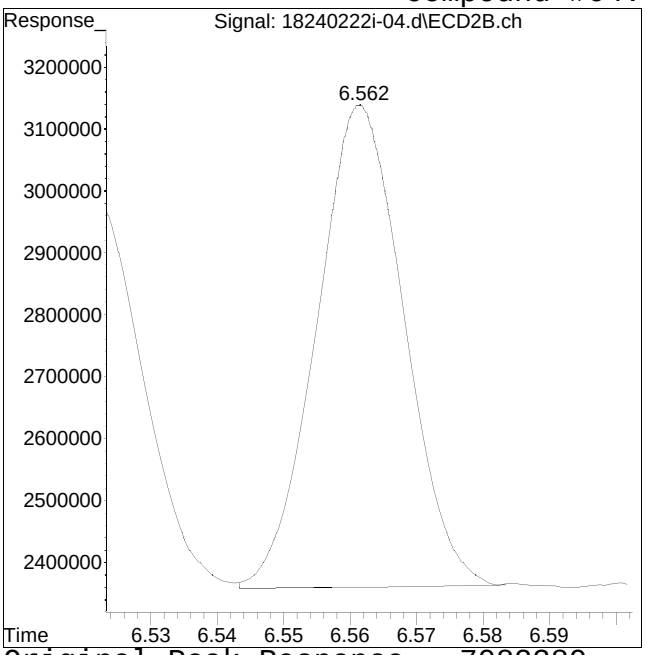


Original Peak Response = 19481547 Manual Peak Response = 17492861 M4
M4 = Poor automated baseline construction.

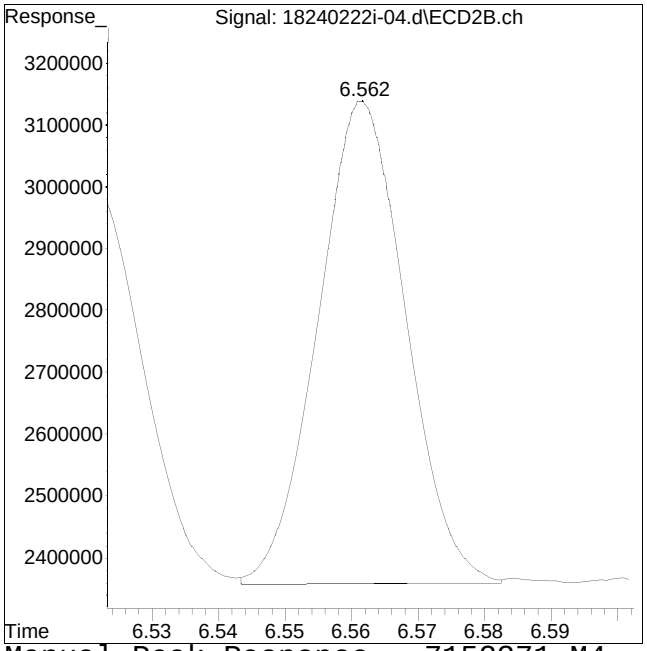
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 7082389



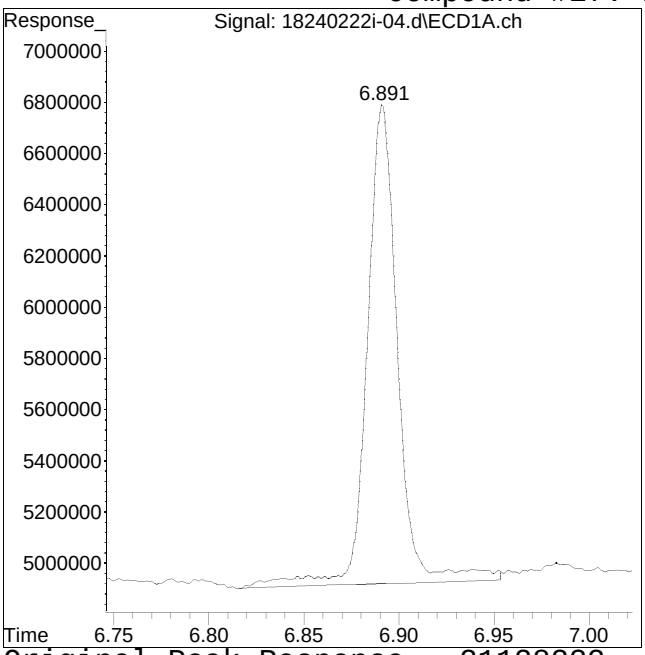
Manual Peak Response = 7152371 M4

M4 = Poor automated baseline construction.

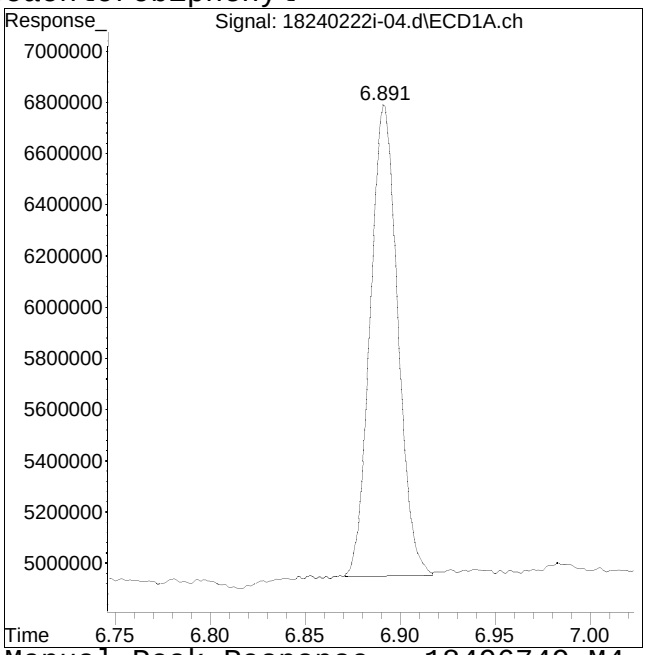
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-04.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:20 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 2/27/2024 3:06 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 21128232



Manual Peak Response = 18496749 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:31 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:05:10 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:00:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	392.2E6	171.2E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	34771936	15336666	2.343	2.335
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.69%#	4.67%#
27) s	Decachlorobi	6.891	7.453	35636971	13424426	2.434M4	2.402
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.87%#	4.80%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.594	39634230	16521675	2.387M4	2.329
4)	alpha-BHC	2.451	2.696	40805740	17083523	2.016M4	1.933M4
5)	gamma-BHC (l	2.668	2.982	38976186	16597145	2.088M3	2.021
6)	beta-BHC	2.732	3.053	21156157	9185159	2.411M4	2.335
7)	delta-BHC	2.863	3.314	38983683	16471428	2.069M4	1.976
8)	Heptachlor	3.029	3.371	41627221	17432168	2.276M4	2.170
9)	Aldrin	3.276	3.682	35649868	14706134	2.142M4	2.027
10)	Alachlor	3.415	3.586	6285251	2734970	2.179M4	2.208M4
11)	Chlorpyrifos	3.509	3.934	21738199	9550866	2.502M4	2.415M4
12)	Heptachlor E	3.832	4.289	35819726	14805941	2.270M3	2.123
13)	gamma-Chlord	3.957	4.505	32870483	13564921	2.215M4	2.130
14)	alpha-Chlord	4.092	4.678	36939147	15534510	2.270M3	2.172
15)	4,4'-DDE	4.197	4.902	33158489	13650380	2.117	1.998
16)	Endosulfan I	4.226	4.738	33973105	14307973	2.279M4	2.156
17)	Dieldrin	4.487	5.059	33911557	13902348	2.160M3	2.047
18)	Endrin	4.742	5.377	35635462	13518488	2.210M4	2.011
19)	4,4'-DDD	4.868	5.521	27838665	11781898	2.177	2.096

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:31 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:05:10 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:00:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	4.997	5.589	31600856	13304119	2.255M4	2.172M4
21)	4,4'-DDT	5.176	5.812	29820875	13687266	2.104M4	2.116
22)	Endrin Aldeh	5.434	5.903	26004541	10712496	2.228M4	2.093
23)	Methoxychlor	5.686	6.404	18996612	8668443	2.413M4	2.370
24)	Mirex	5.729	6.521	31935345	13334536	2.526M4	2.446M4
25)	Endosulfan S	5.839	6.141	31498899	12896542	2.290M4	2.196
26)	Endrin Keton	6.070	6.562	34445658	14726678	2.263M4	2.178
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

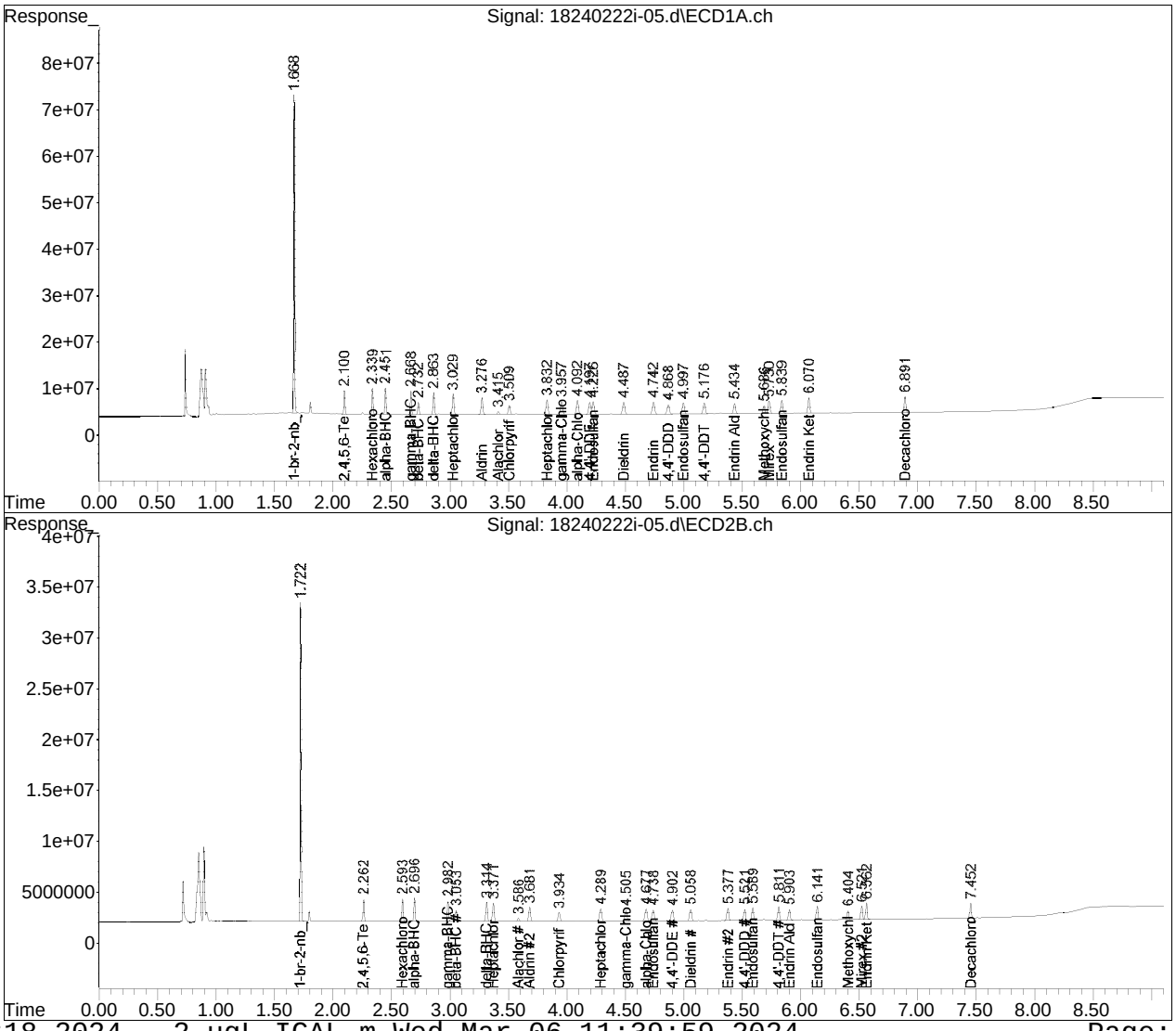
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:31 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:05:10 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:00:36 2024
Response via : Initial Calibration
Integrator: ChemStation

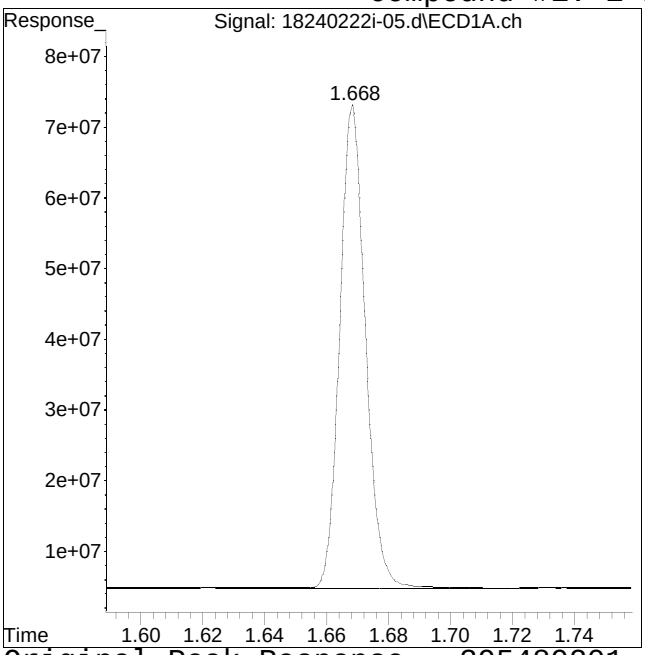
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

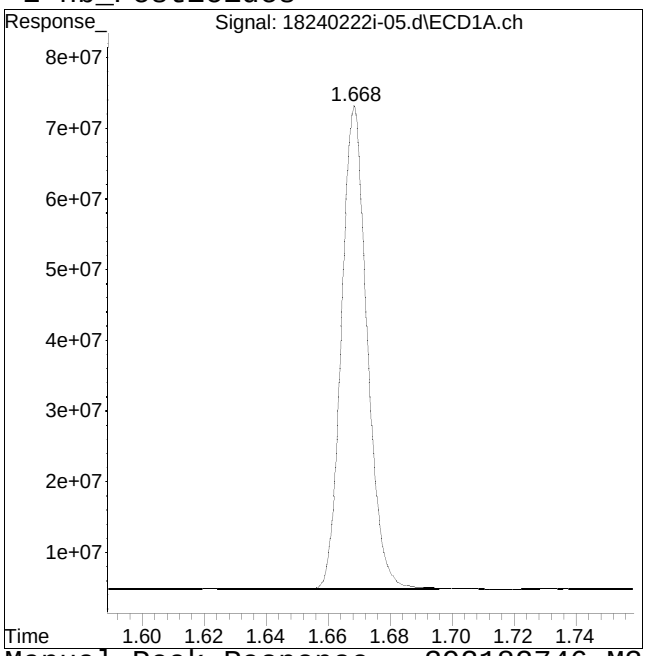


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #1: 1-br-2-nb_Pesticides



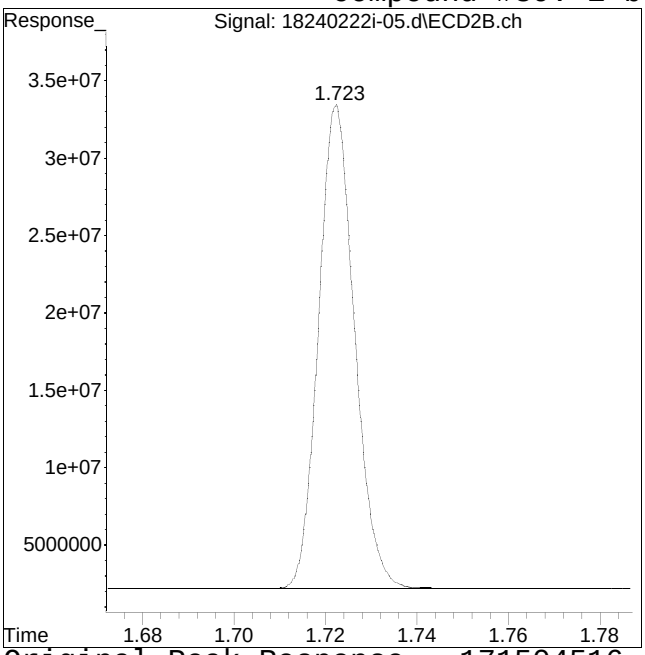


Original Peak Response = 395489201 Manual Peak Response = 392182746 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

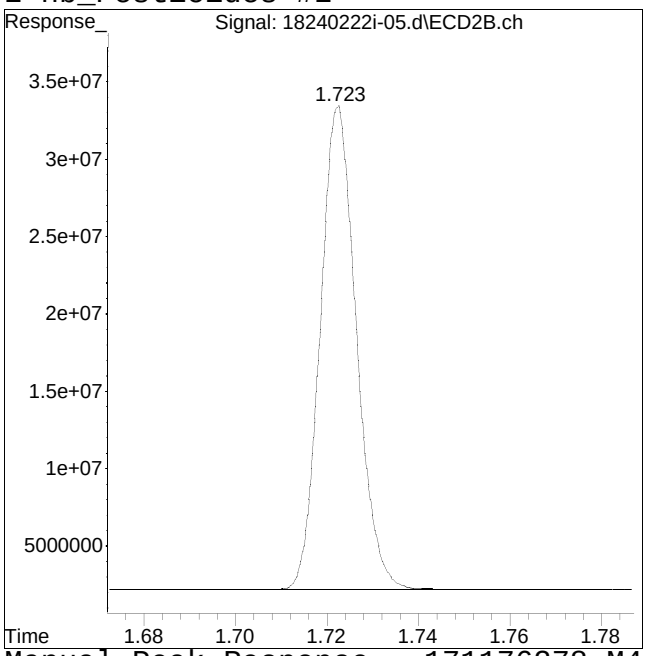
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 171504516



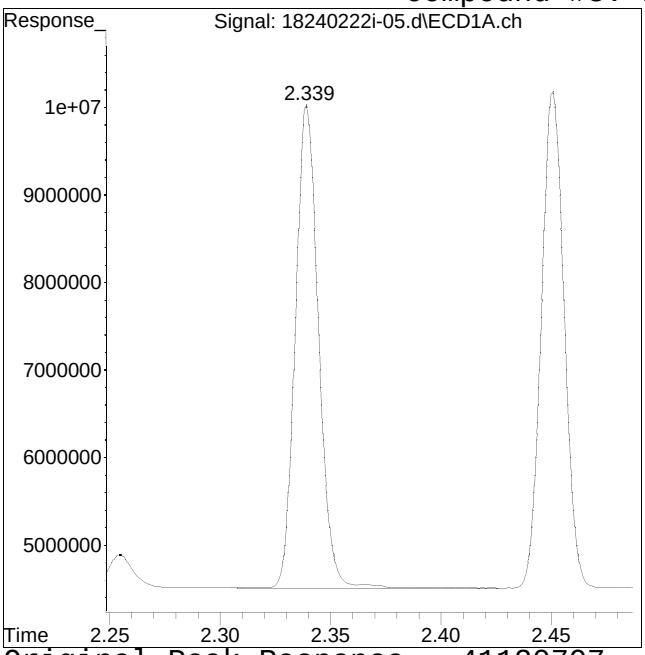
Manual Peak Response = 171176278 M4

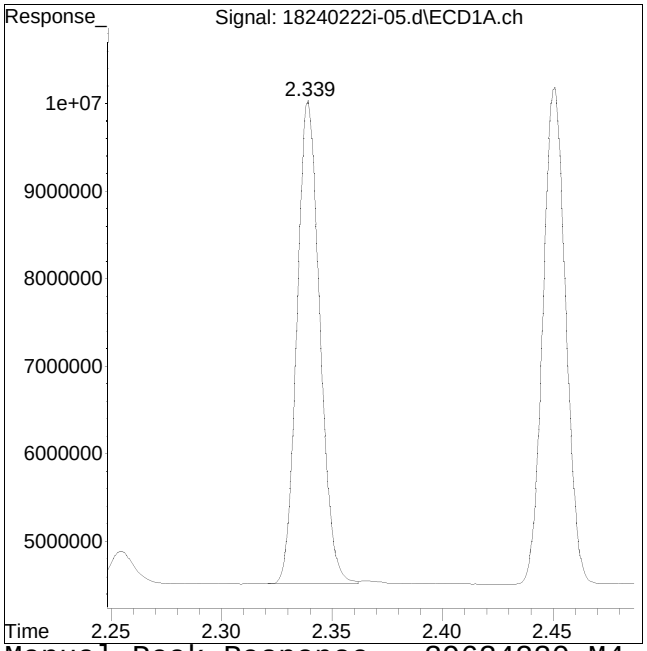
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #3: Hexachlorobenzene





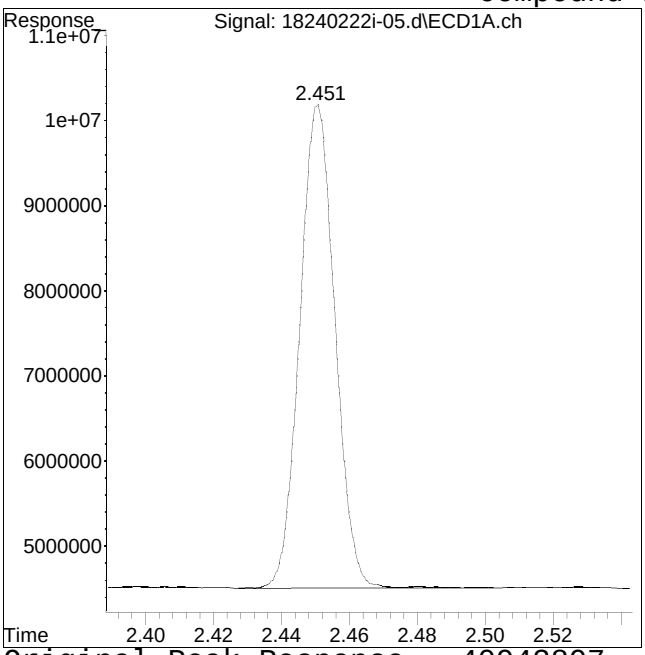
Original Peak Response = 41120797 Manual Peak Response = 39634230 M4
M4 = Poor automated baseline construction.

Manual Integration Report

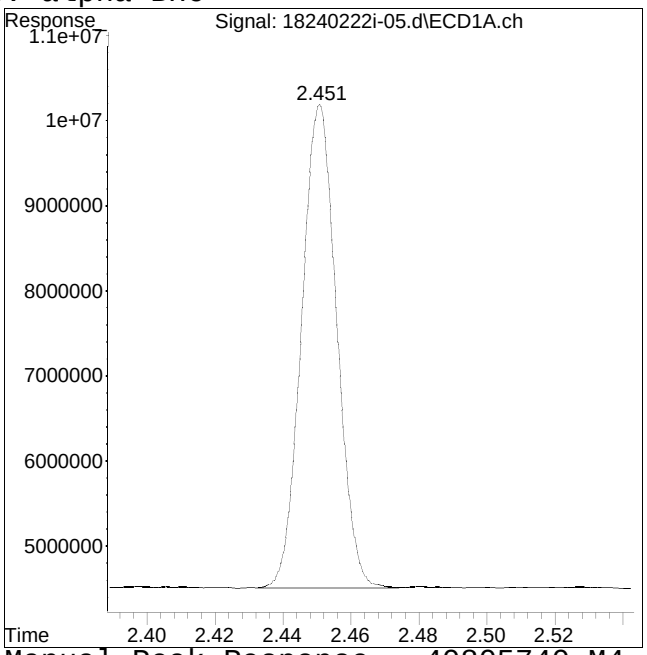
Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-05.d
Date Inj'd : 2/22/2024 1:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 3:00 pm

Compound #4: alpha-BHC



Original Peak Response = 40943897



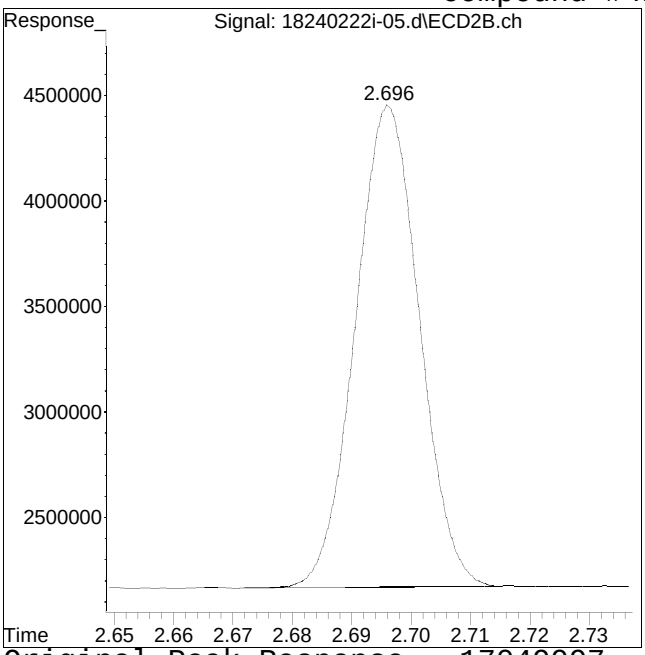
Manual Peak Response = 40805740 M4

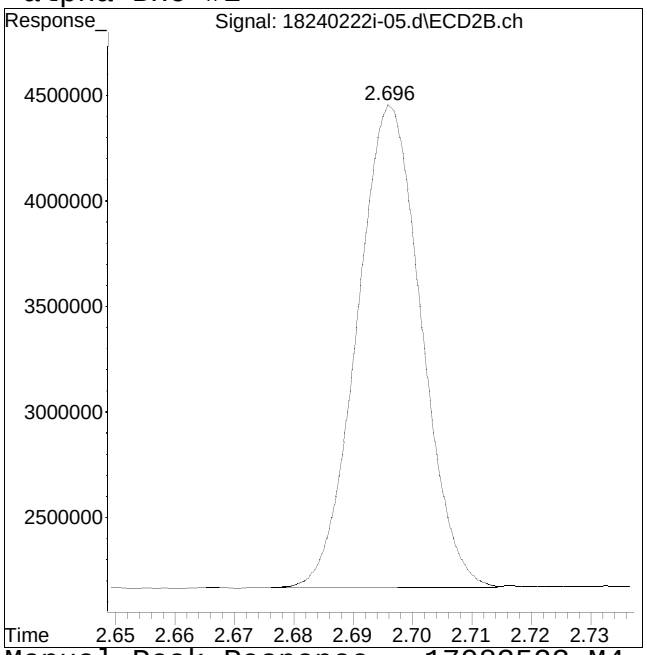
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #42: alpha-BHC #2



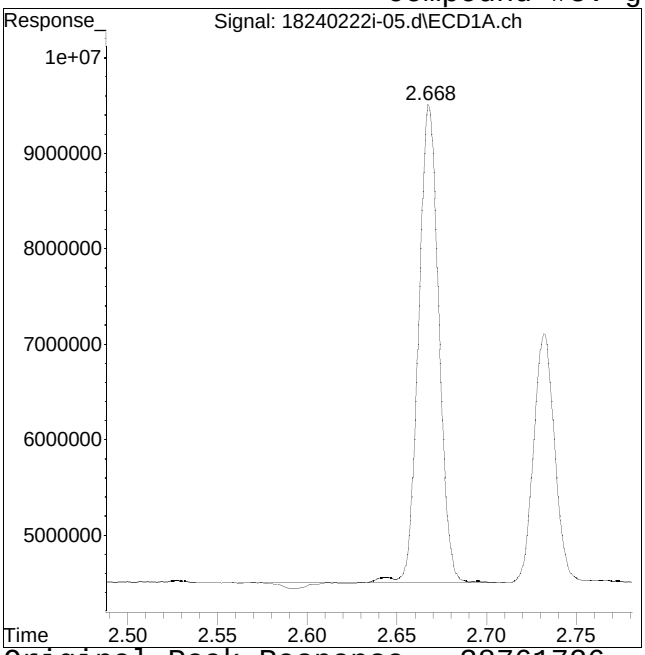


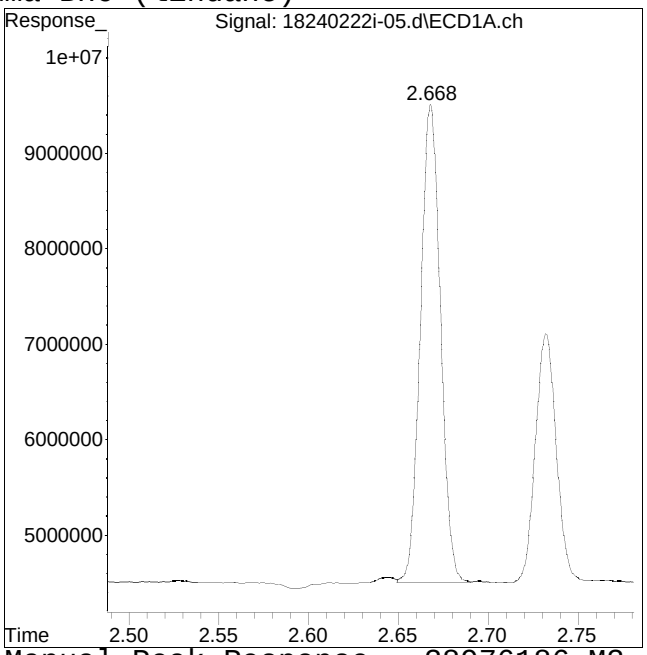
Original Peak Response = 17049997 Manual Peak Response = 17083523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #5: gamma-BHC (lindane)



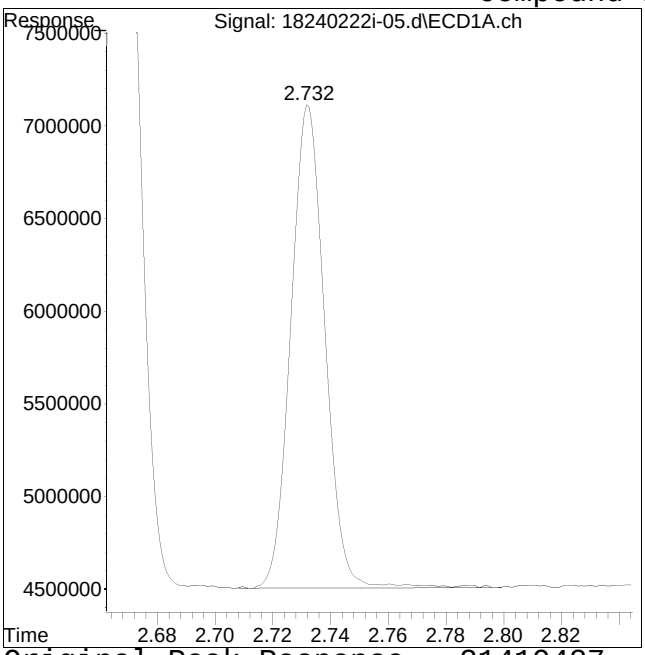


Original Peak Response = 38761726 Manual Peak Response = 38976186 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

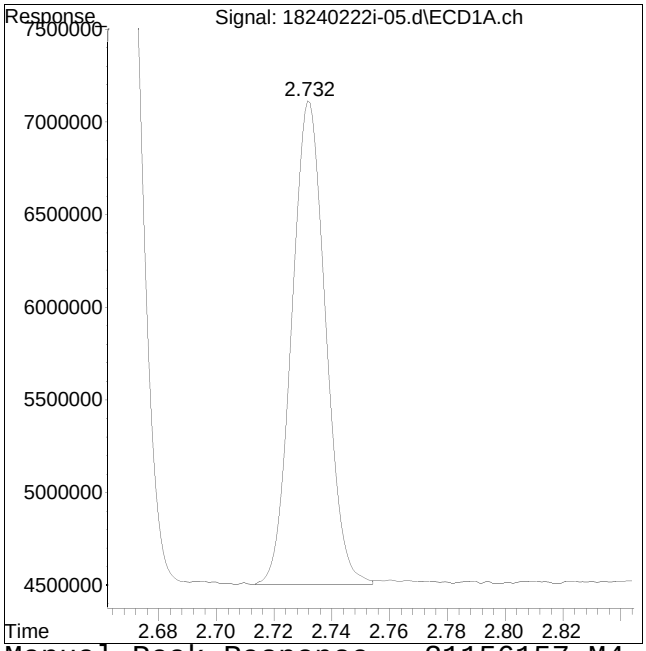
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #6: beta-BHC



Original Peak Response = 21419427



Manual Peak Response = 21156157 M4

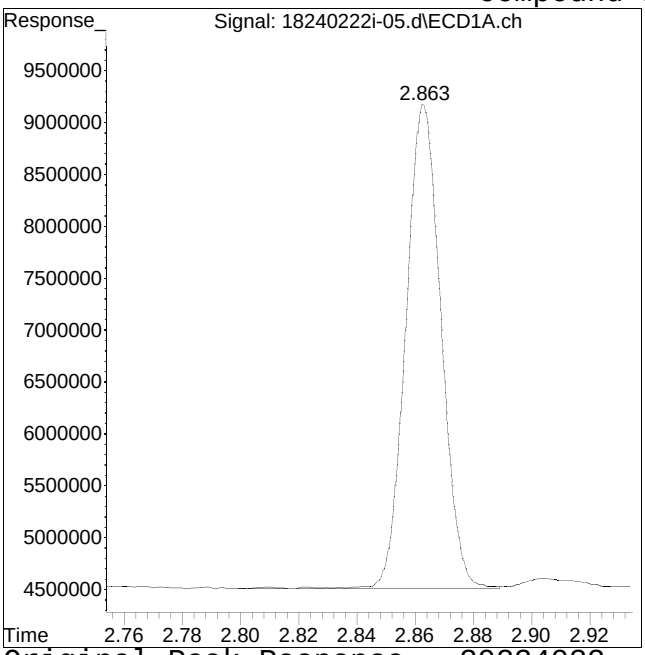
M4 = Poor automated baseline construction.

Manual Integration Report

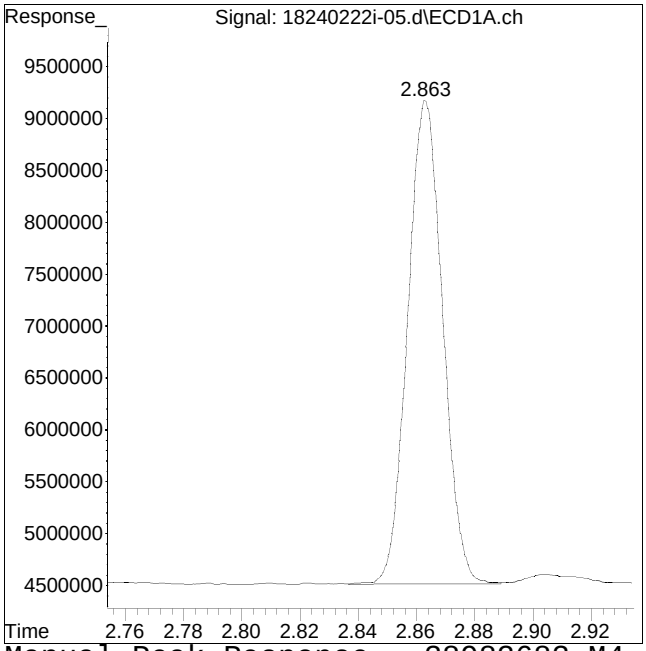
Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-05.d
Date Inj'd : 2/22/2024 1:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 3:00 pm

Compound #7: delta-BHC



Original Peak Response = 39234032



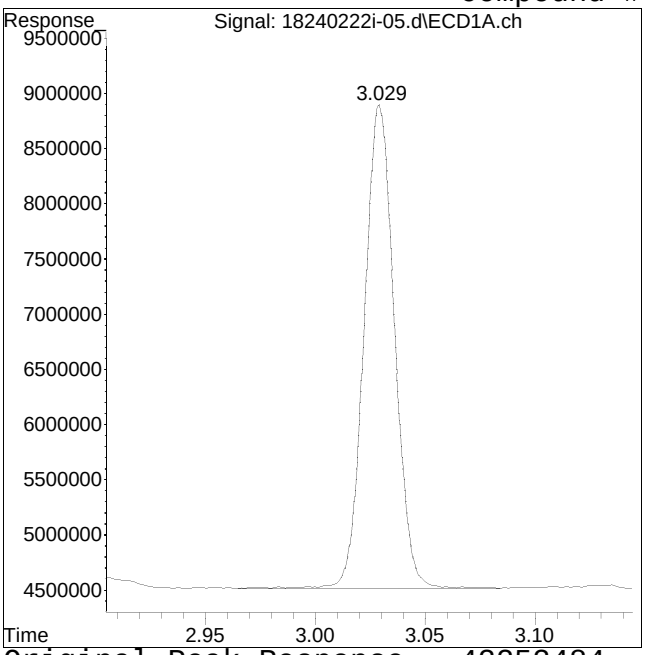
Manual Peak Response = 38983683 M4

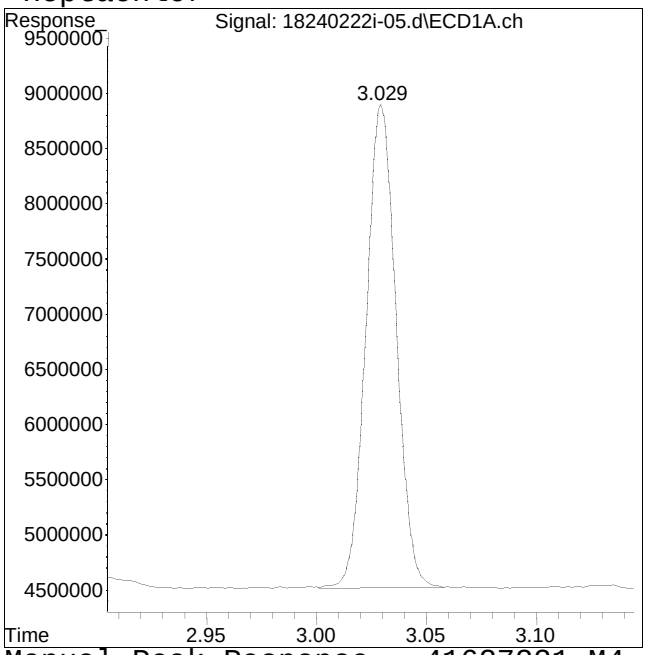
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #8: Heptachlor



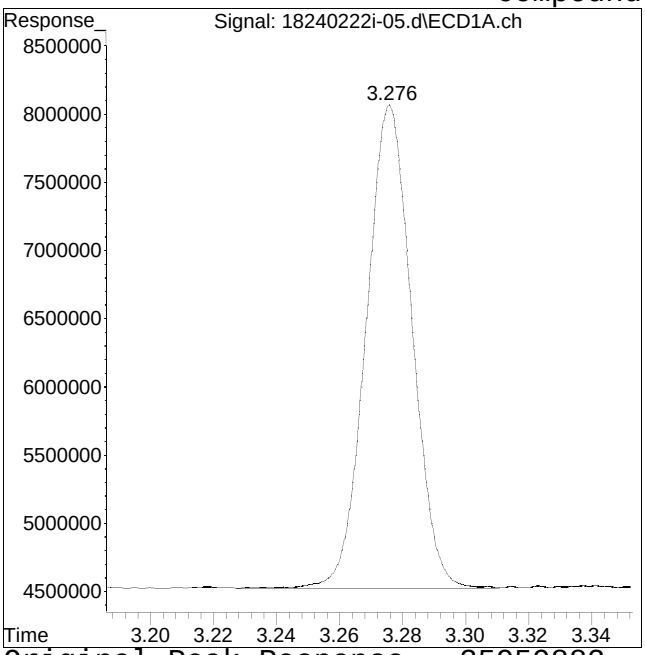


Original Peak Response = 42252484 Manual Peak Response = 41627221 M4
M4 = Poor automated baseline construction.

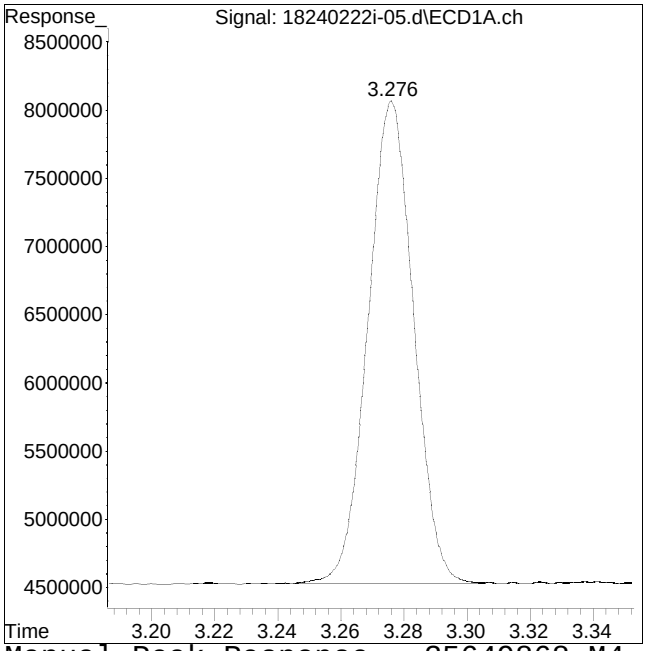
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #9: Aldrin



Original Peak Response = 35959882



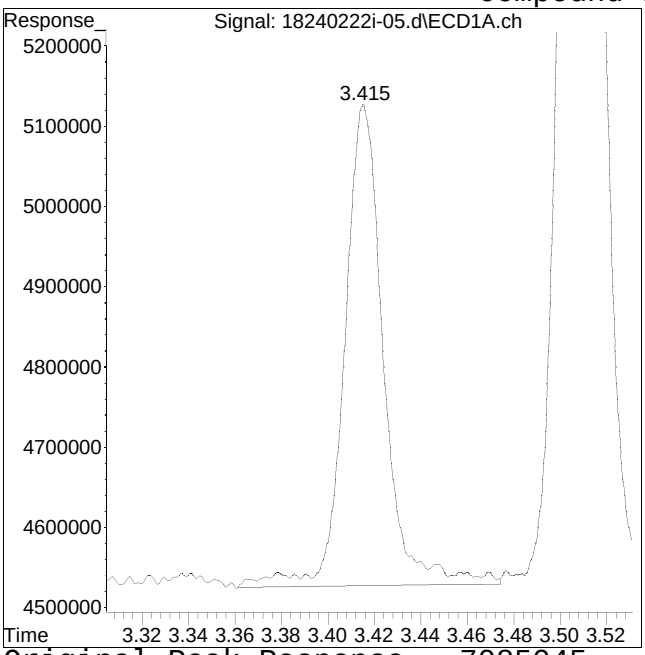
Manual Peak Response = 35649868 M4

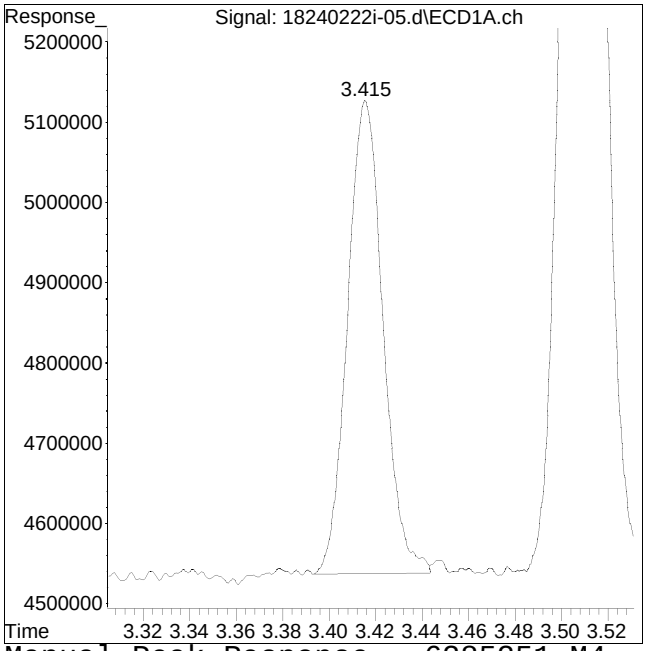
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #10: Alachlor



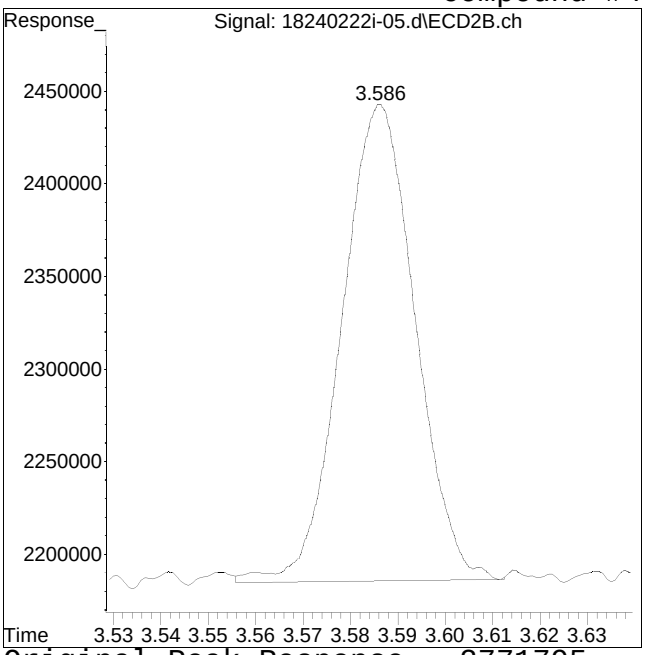


Original Peak Response = 7085045 Manual Peak Response = 6285251 M4
M4 = Poor automated baseline construction.

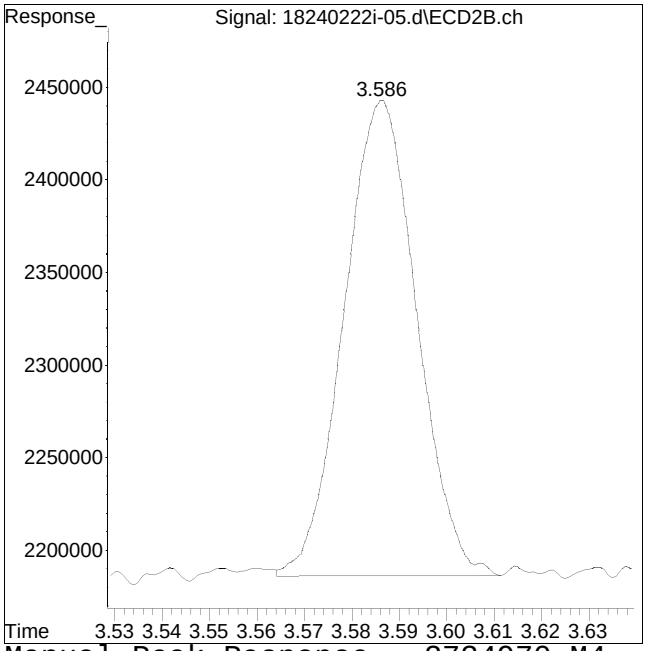
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-05.d
Date Inj'd : 2/22/2024 1:31 pm
Sample : il3pest,42e,,pp 11404 L0.0
Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 3:00 pm

Compound #48: Alachlor #2



Original Peak Response = 2771795



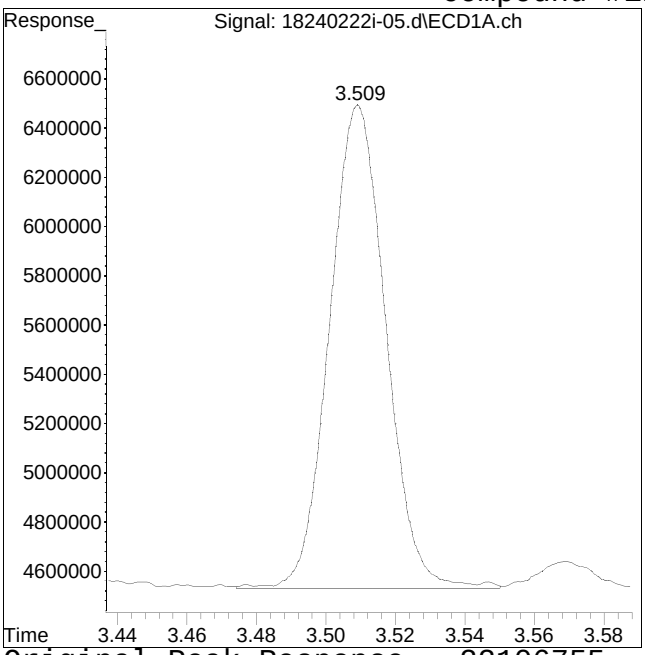
Manual Peak Response = 2734970 M4

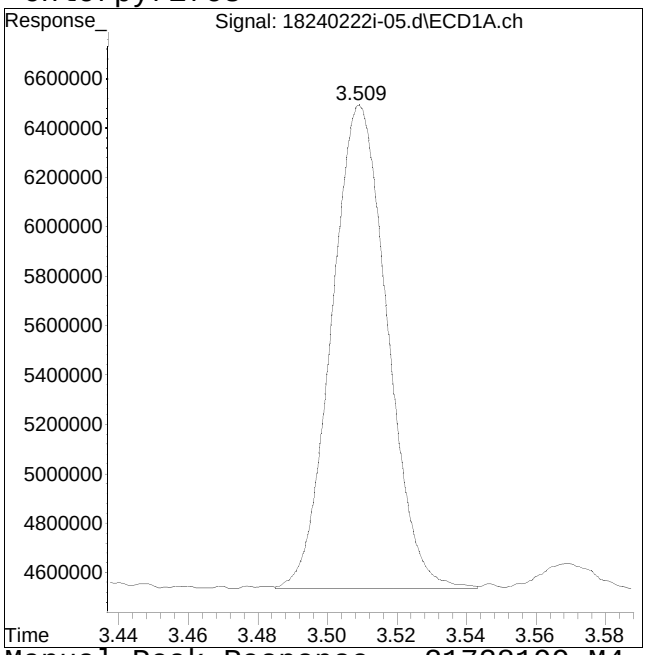
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #11: Chlorpyrifos



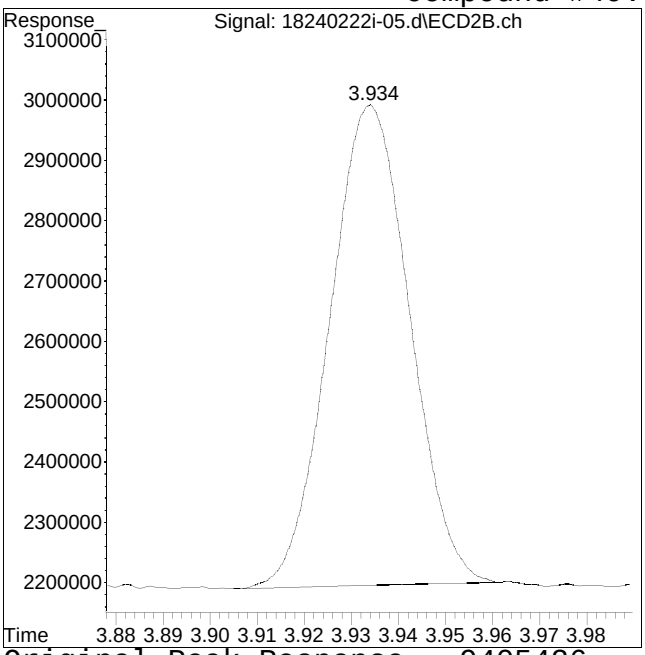


Original Peak Response = 22106755 Manual Peak Response = 21738199 M4
M4 = Poor automated baseline construction.

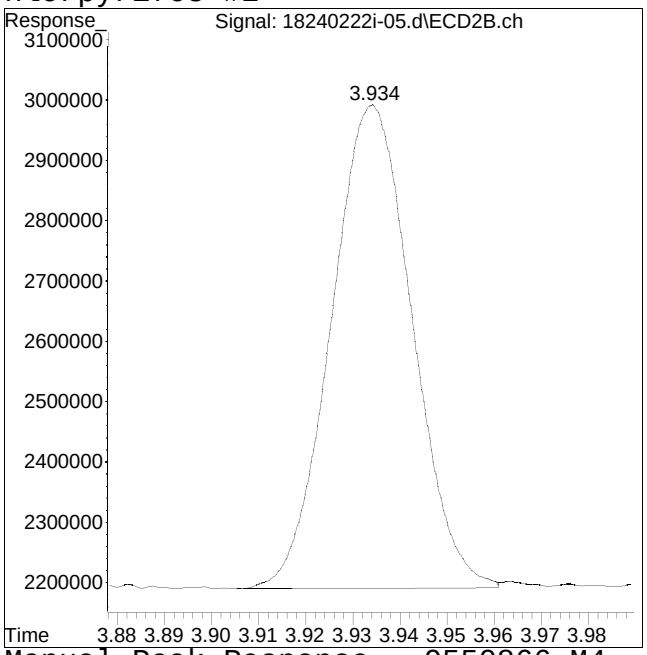
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 9405426



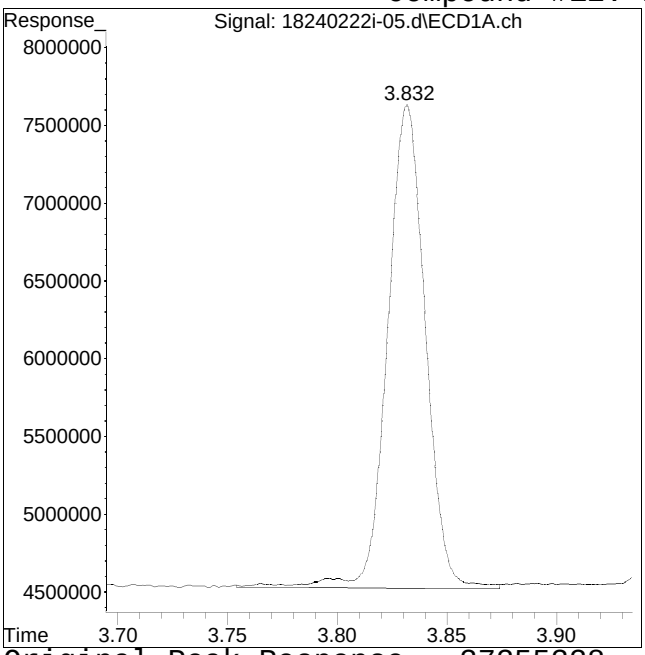
Manual Peak Response = 9550866 M4

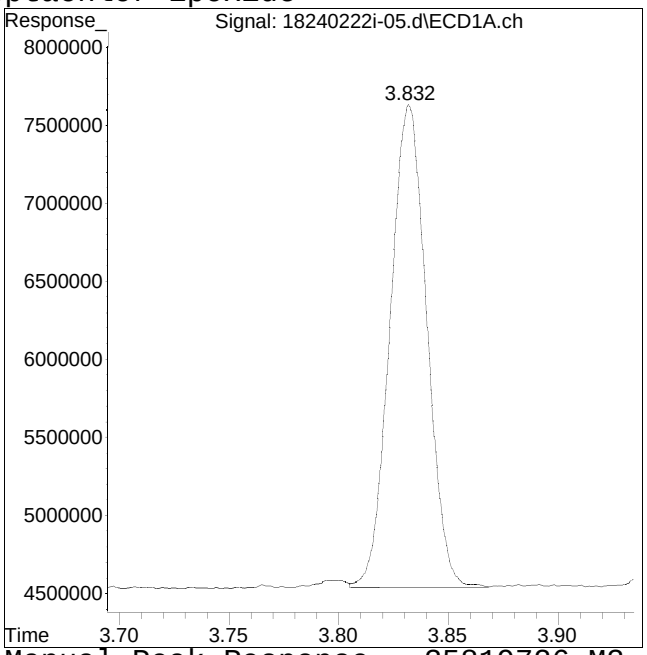
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #12: Heptachlor Epoxide



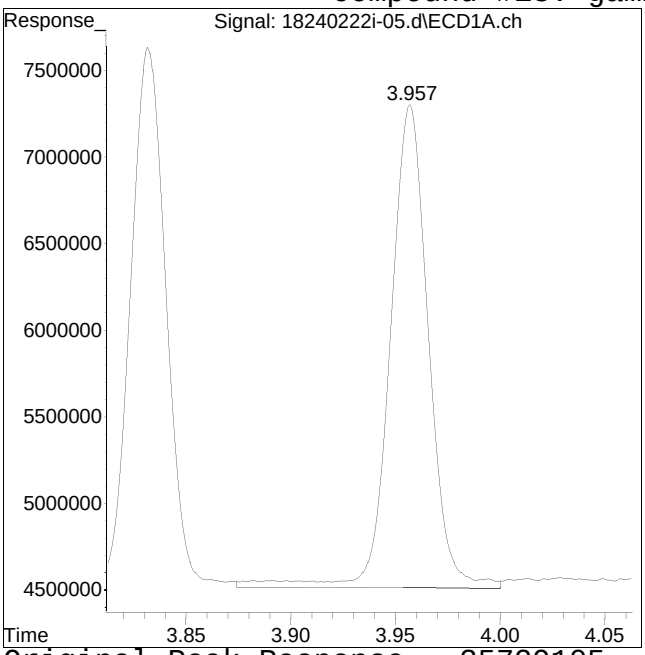


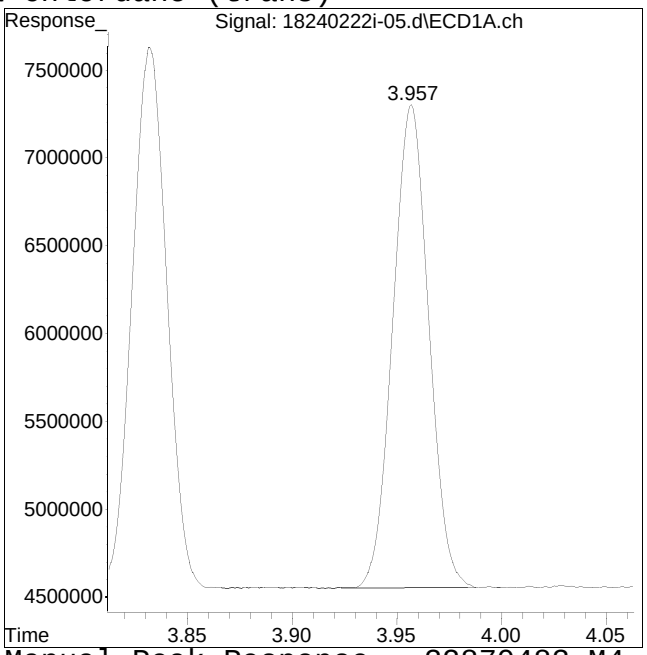
Original Peak Response = 37355338 Manual Peak Response = 35819726 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #13: gamma-Chlordane (trans)



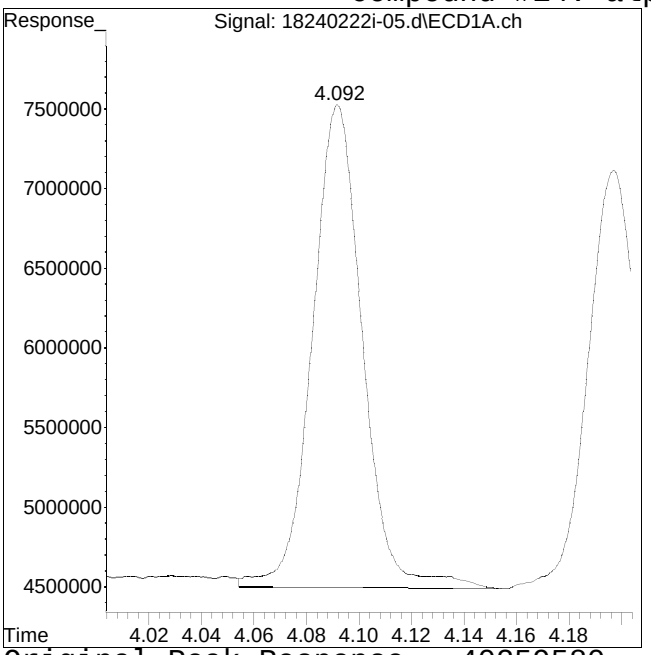


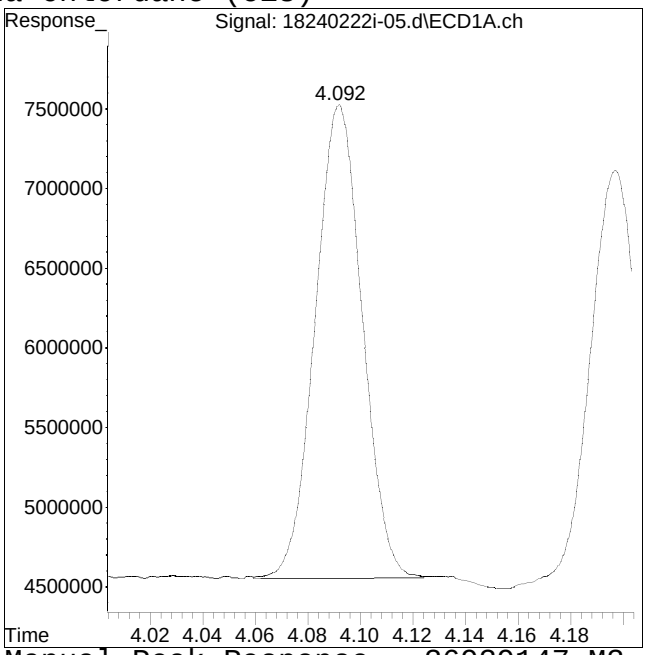
Original Peak Response = 35729105 Manual Peak Response = 32870483 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #14: alpha-Chlordane (cis)



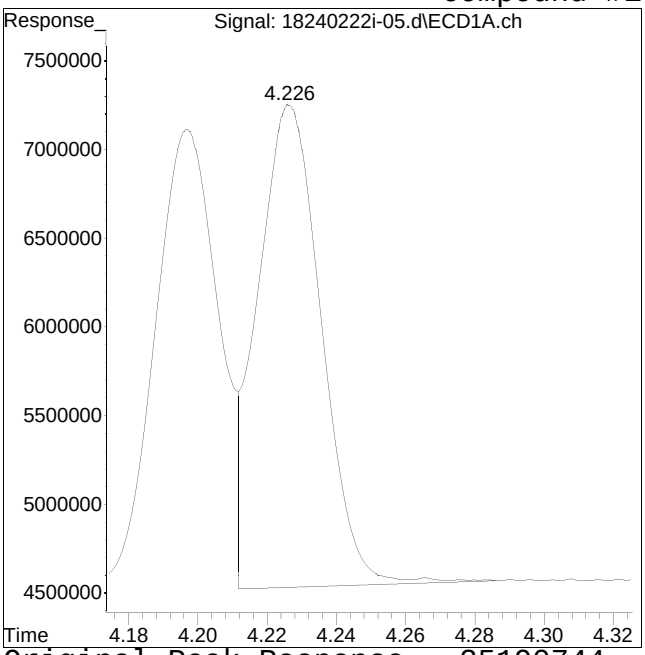


Original Peak Response = 40259580 Manual Peak Response = 36939147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

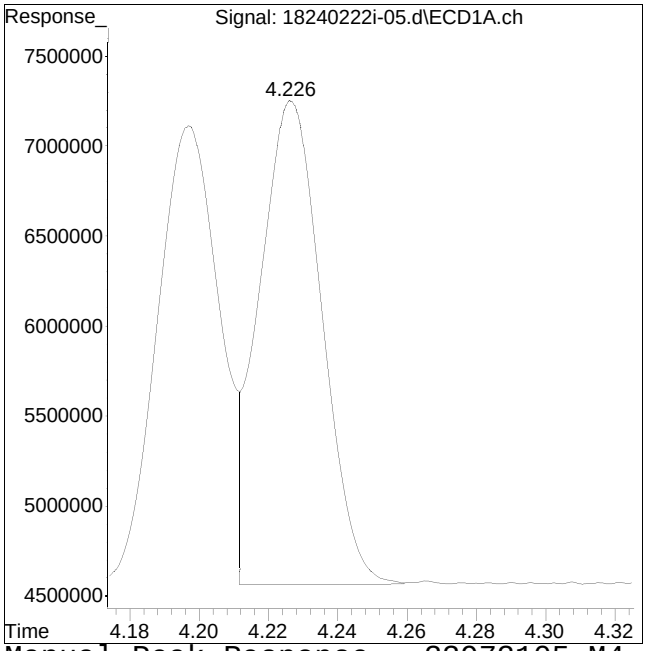
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #16: Endosulfan I



Original Peak Response = 35190744



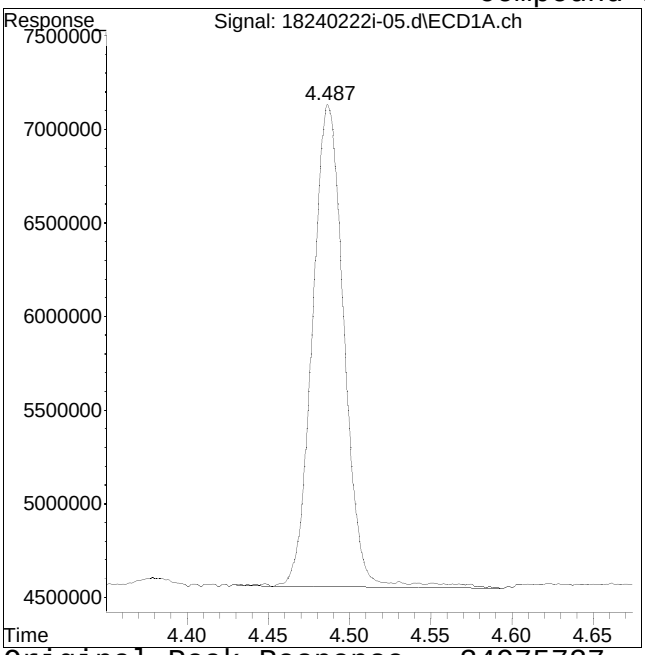
Manual Peak Response = 33973105 M4

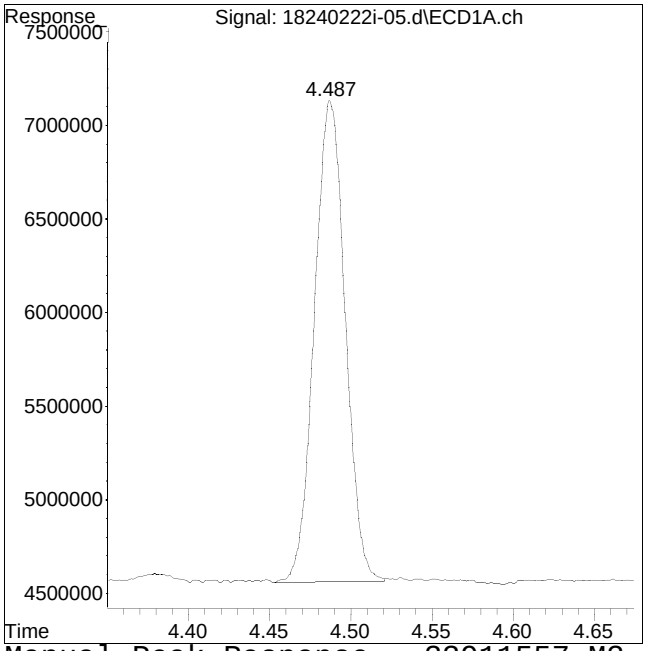
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #17: Dieldrin



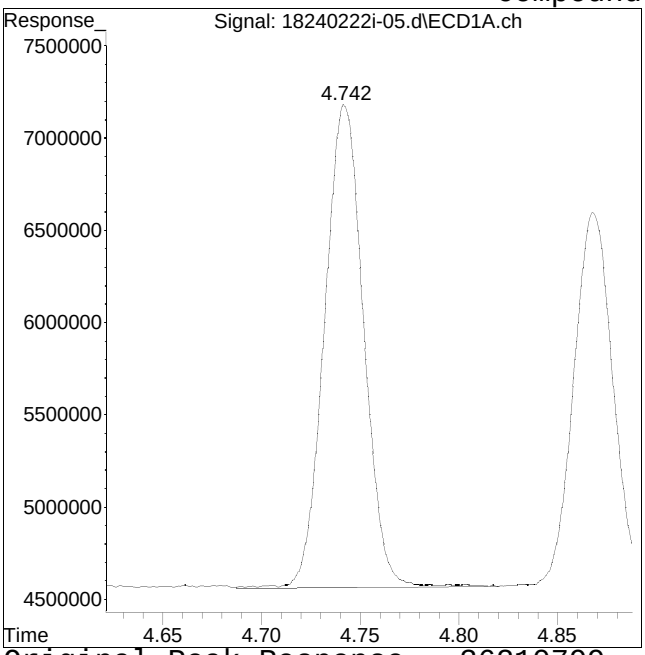


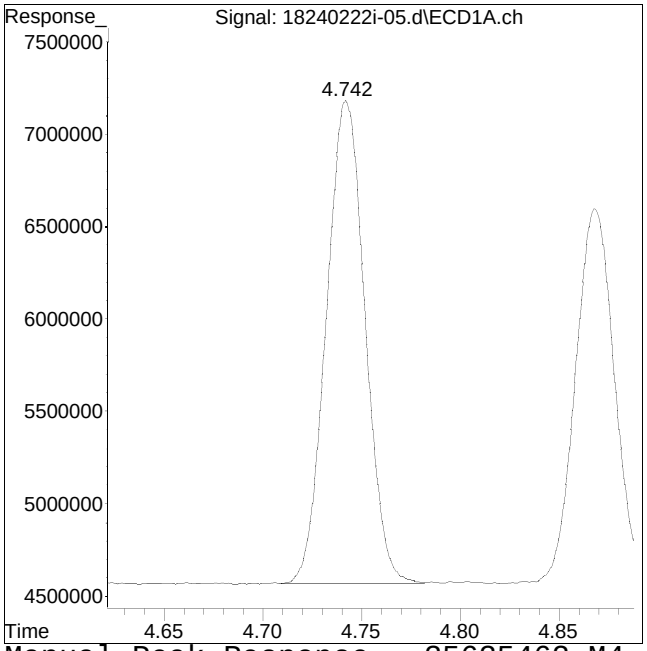
Original Peak Response = 34975737 Manual Peak Response = 33911557 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #18: Endrin



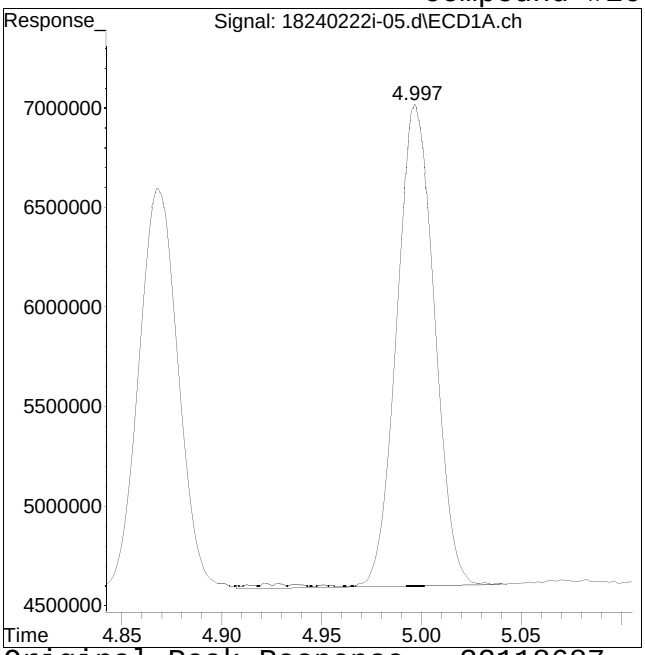


Original Peak Response = 36210799 Manual Peak Response = 35635462 M4
M4 = Poor automated baseline construction.

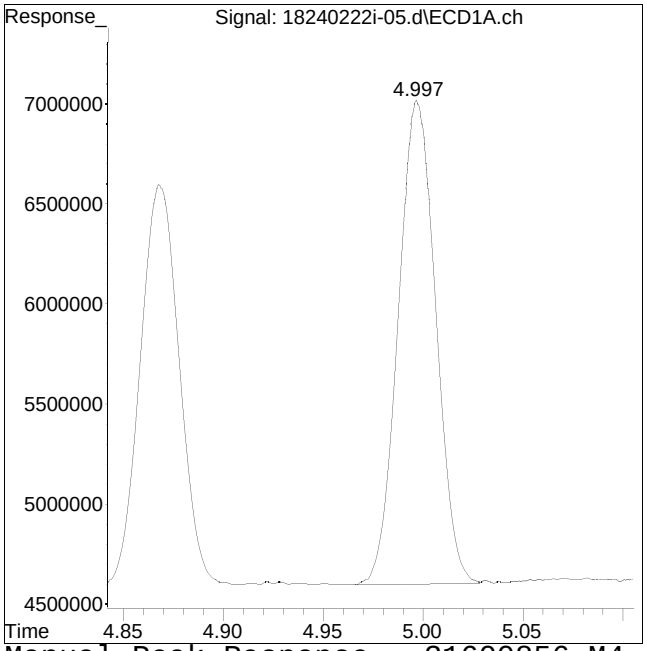
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #20: Endosulfan II



Original Peak Response = 32118687



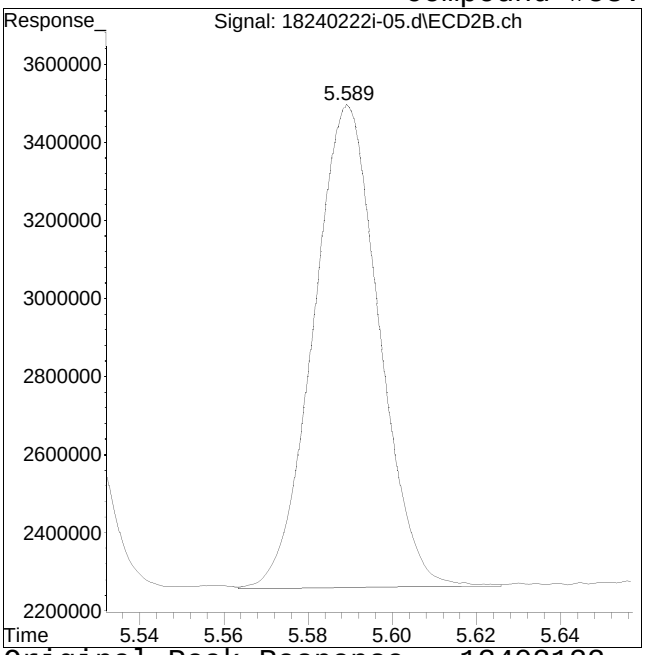
Manual Peak Response = 31600856 M4

M4 = Poor automated baseline construction.

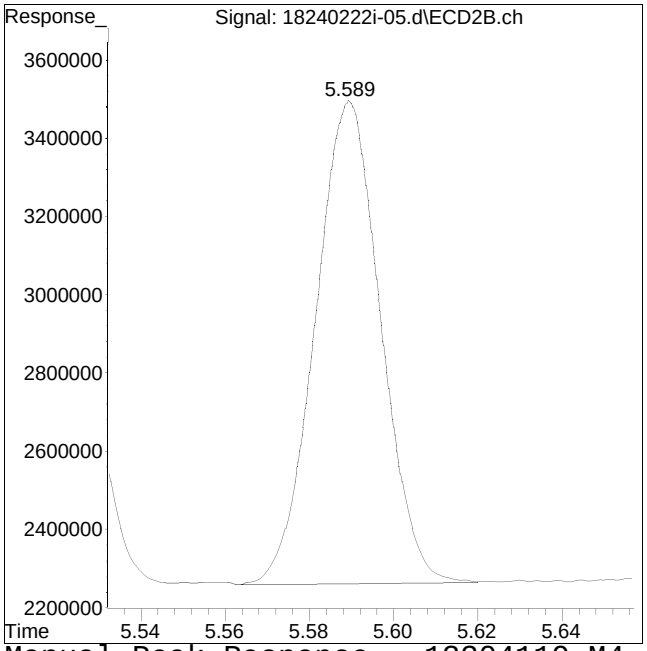
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #58: Endosulfan II #2



Original Peak Response = 13402132



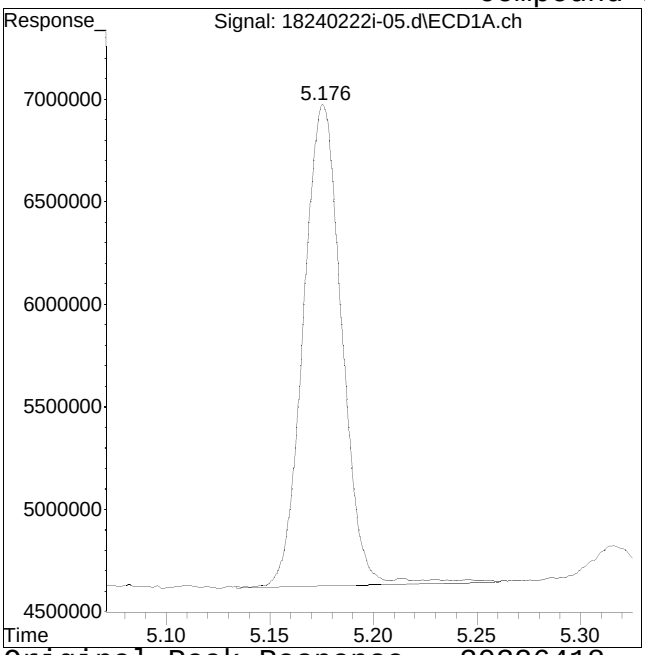
Manual Peak Response = 13304119 M4

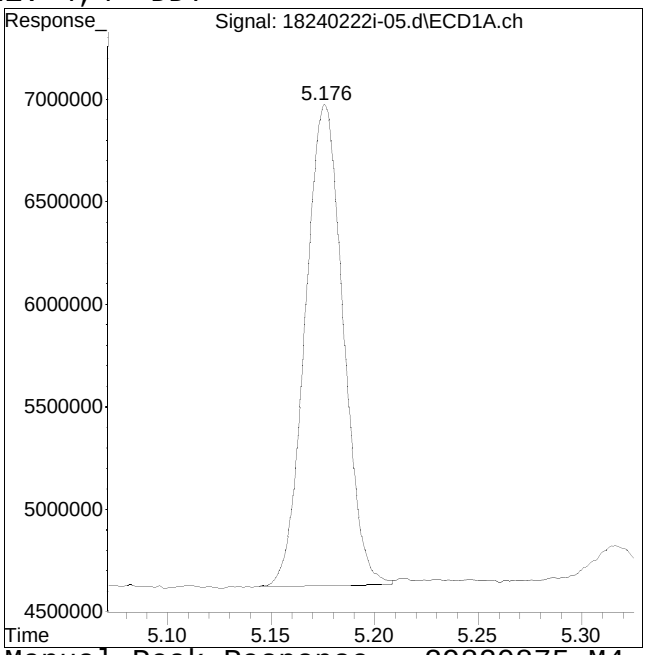
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #21: 4,4'-DDT



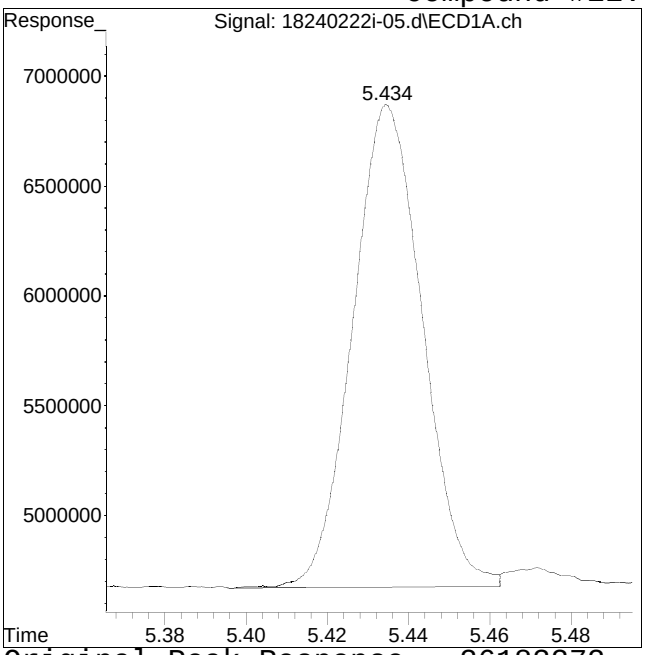


Original Peak Response = 30326418 Manual Peak Response = 29820875 M4
M4 = Poor automated baseline construction.

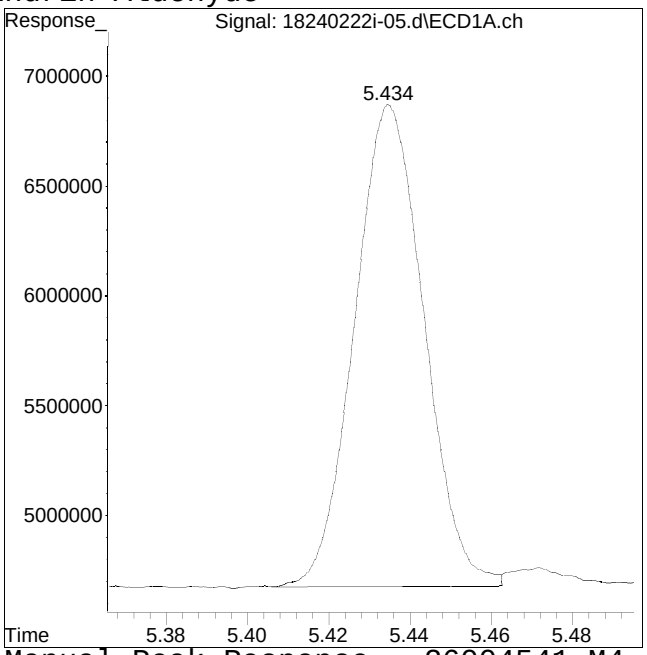
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 26183272



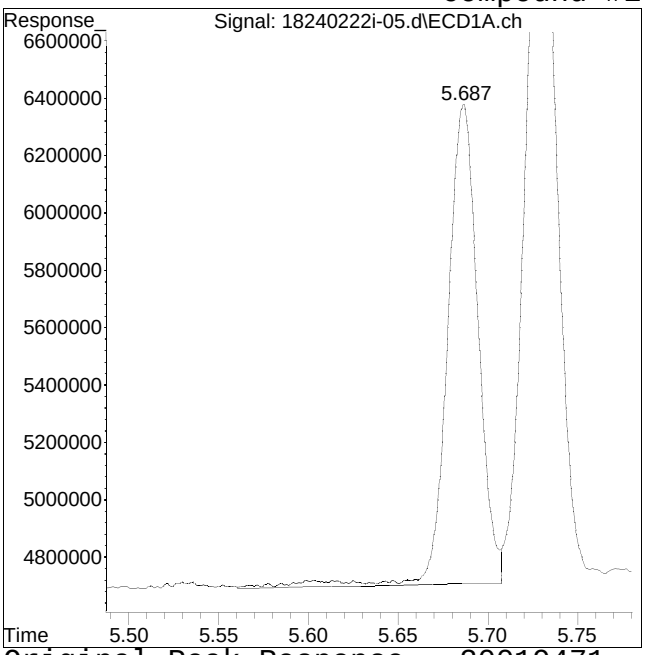
Manual Peak Response = 26004541 M4

M4 = Poor automated baseline construction.

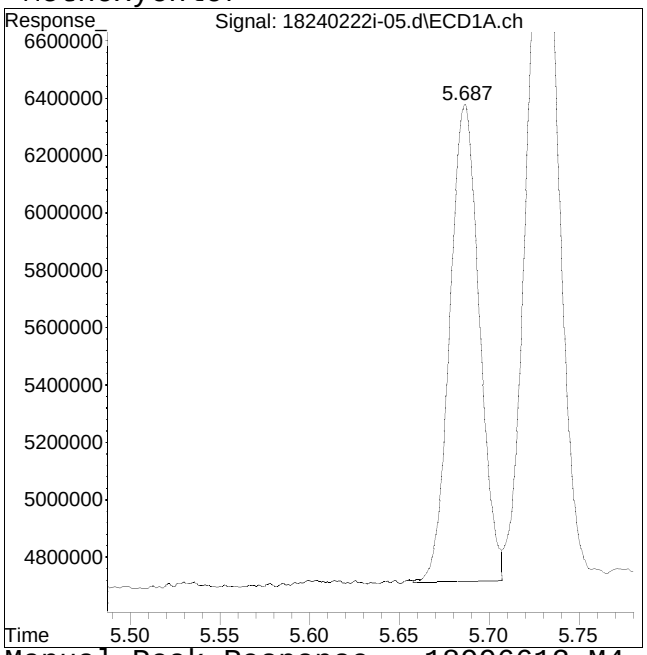
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #23: Methoxychlor



Original Peak Response = 20019471



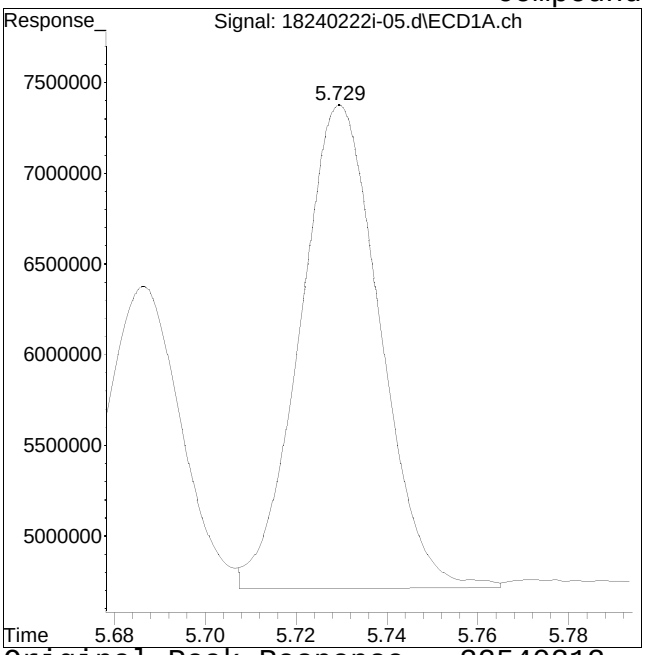
Manual Peak Response = 18996612 M4

M4 = Poor automated baseline construction.

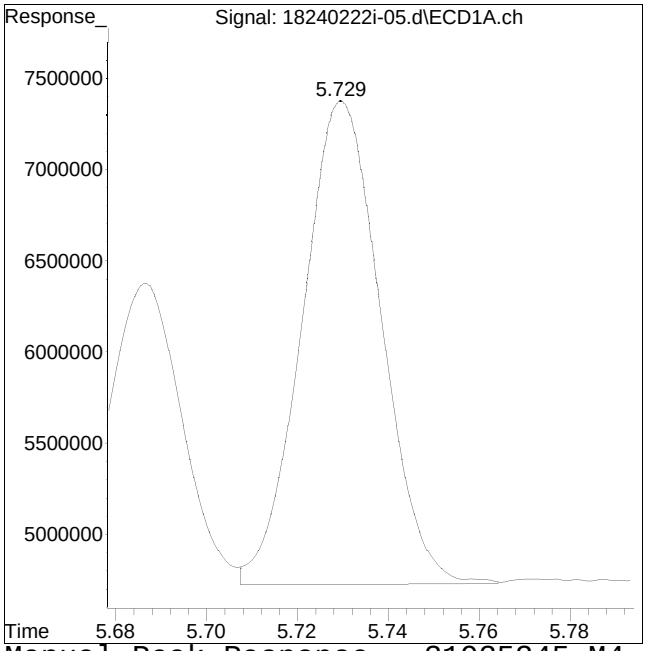
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #24: Mirex



Original Peak Response = 32540212



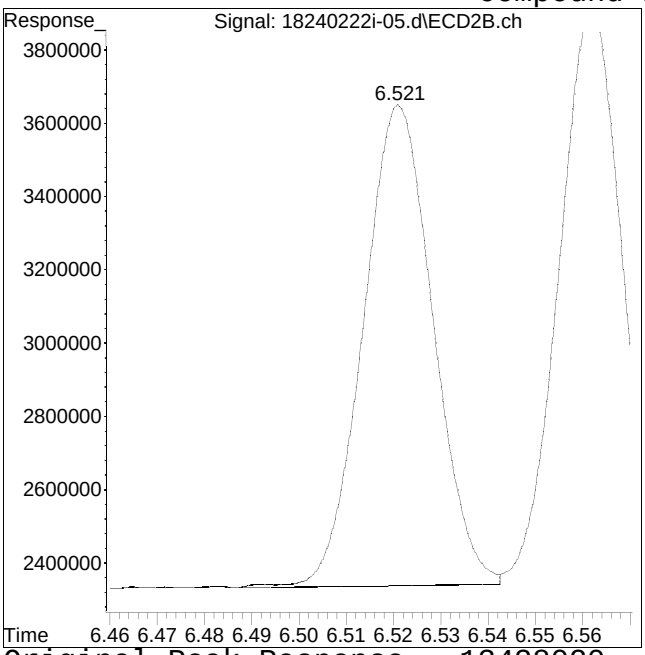
Manual Peak Response = 31935345 M4

M4 = Poor automated baseline construction.

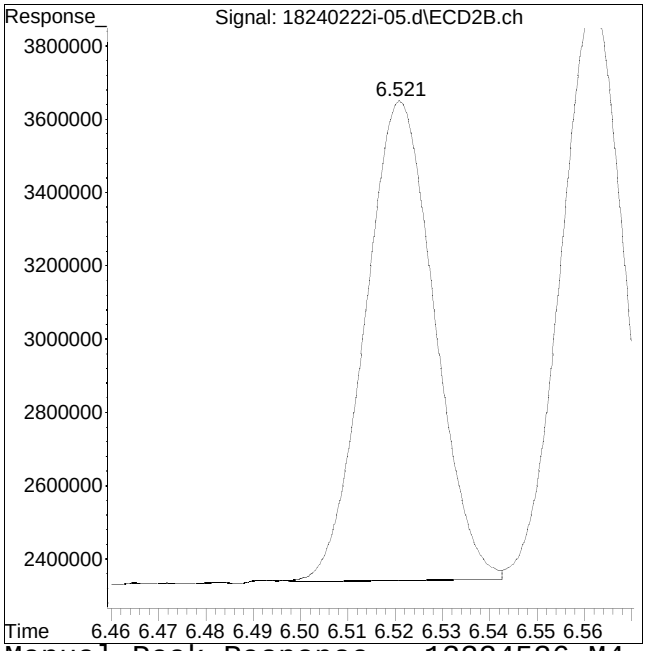
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #62: Mirex #2



Original Peak Response = 13438020



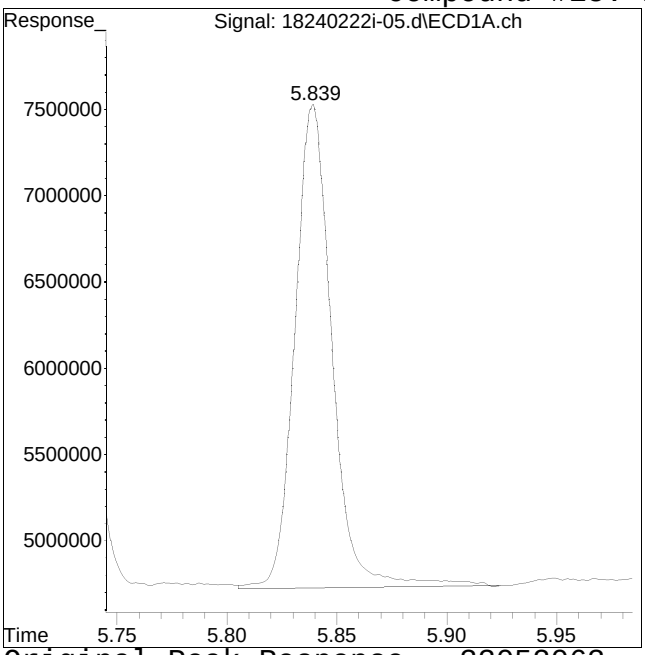
Manual Peak Response = 13334536 M4

M4 = Poor automated baseline construction.

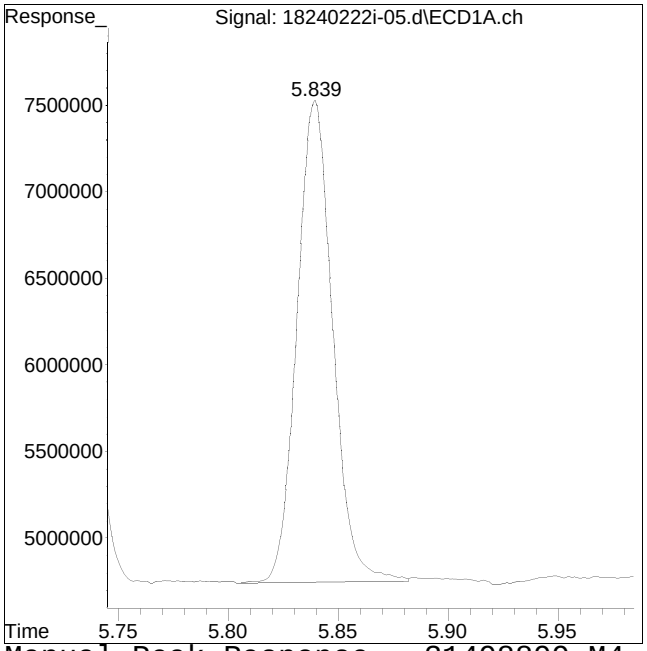
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 33052063



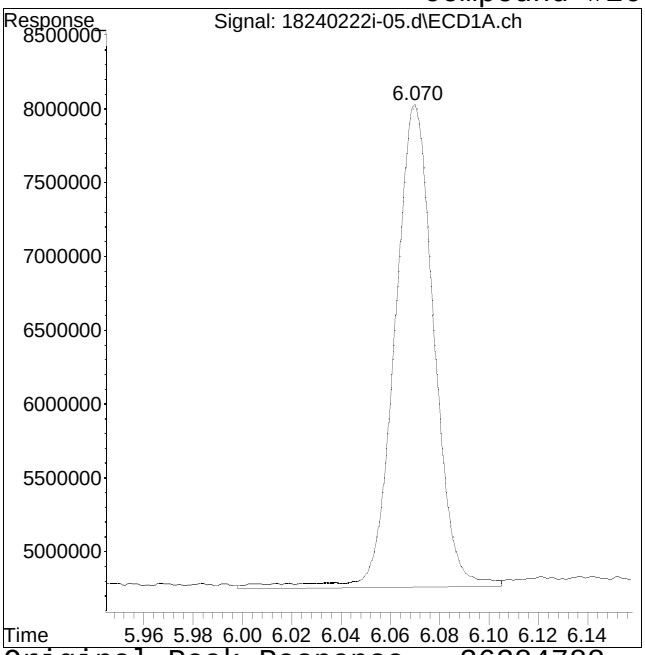
Manual Peak Response = 31498899 M4

M4 = Poor automated baseline construction.

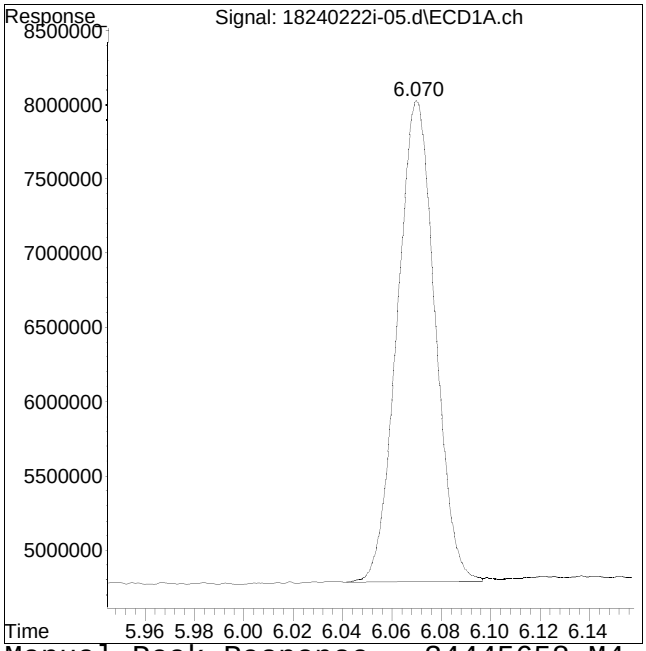
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #26: Endrin Ketone



Original Peak Response = 36384788



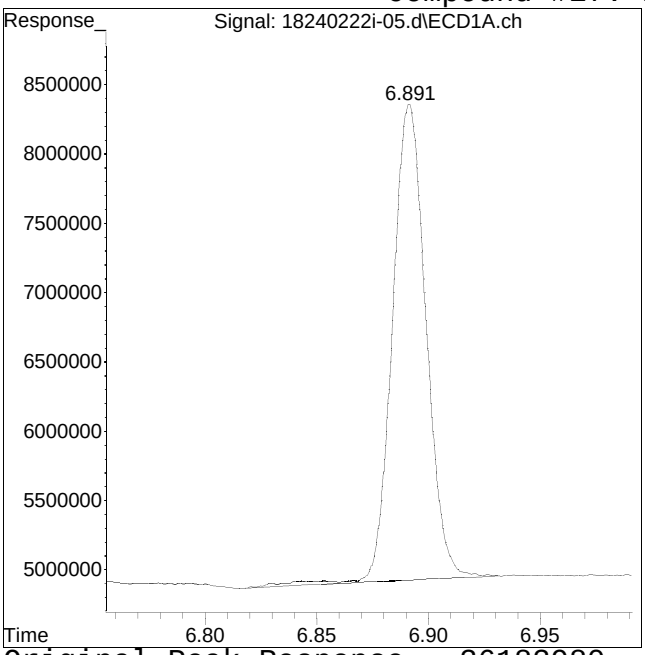
Manual Peak Response = 34445658 M4

M4 = Poor automated baseline construction.

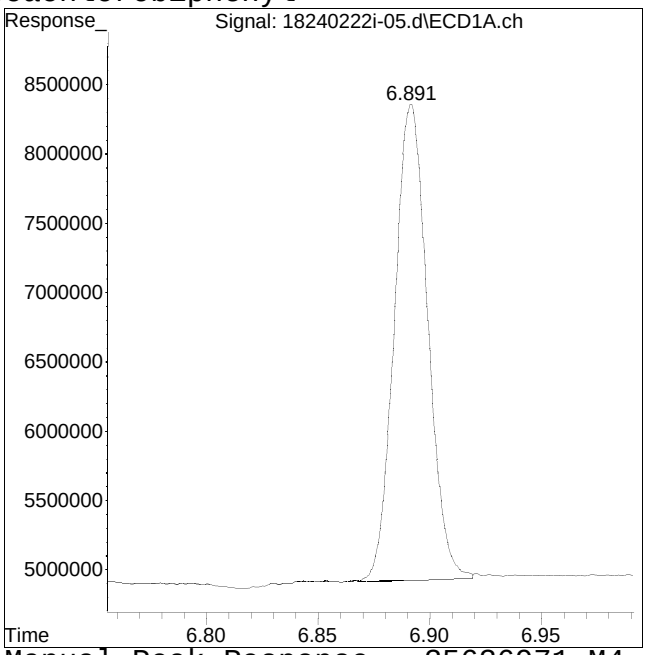
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-05.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:31 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 2/27/2024 3:00 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 36183980



Manual Peak Response = 35636971 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:43 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:59:52 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:42:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	390.5E6	170.8E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	50296675	22493534	3.482	3.517M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.96%#	7.03%#
27) s	Decachlorobi	6.891	7.453	53113741	20167718	3.778M3	3.744
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.56%#	7.49%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.594	58627314	25096077	3.657M3	3.655
4)	alpha-BHC	2.450	2.696	62087501	26379527	3.094M4	2.990
5)	gamma-BHC (l	2.667	2.982	59199456	25411016	3.218M3	3.118
6)	beta-BHC	2.731	3.052	31590070	13764653	3.744M3	3.609M4
7)	delta-BHC	2.862	3.314	59030537	25298558	3.171M4	3.048
8)	Heptachlor	3.029	3.371	62824412	26368582	3.539M3	3.343
9)	Aldrin	3.275	3.681	53792427	22579841	3.290M4	3.139
10)	Alachlor	3.415	3.586	9995526	4189510	3.594M4	3.479
11)	Chlorpyrifos	3.508	3.934	32168536	14307481	3.906M4	3.783
12)	Heptachlor E	3.831	4.288	54085574	23045152	3.529M3	3.370
13)	gamma-Chlord	3.956	4.505	54947775	20674466	3.872M4	3.299
14)	alpha-Chlord	4.091	4.677	55168424	23680437	3.483M3	3.377
15)	4,4'-DDE	4.197	4.902	49996282	20987521	3.242	3.091M4
16)	Endosulfan I	4.226	4.737	50892290	21801242	3.513M4	3.347
17)	Dieldrin	4.487	5.058	52726357	21344825	3.445M4	3.176
18)	Endrin	4.741	5.377	53665307	21126768	3.408M4	3.176
19)	4,4'-DDD	4.868	5.521	41825692	17934940	3.337M3	3.233
20)	Endosulfan I	4.996	5.589	48018062	20325875	3.528M4	3.386
21)	4,4'-DDT	5.175	5.811	46118373	20884375	3.318M4	3.279M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:43 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:59:52 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:42:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	5.434	5.902	39860477	17667551	3.514M3	3.549M4
23)	Methoxychlor	5.685	6.404	28493465	13109531	3.768M4	3.713
24)	Mirex	5.729	6.521	47310283	20002051	3.924M4	3.821
25)	Endosulfan S	5.839	6.141	46846020	19701948	3.503M4	3.432
26)	Endrin Keton	6.069	6.562	51796736	22380805	3.499M4	3.377
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

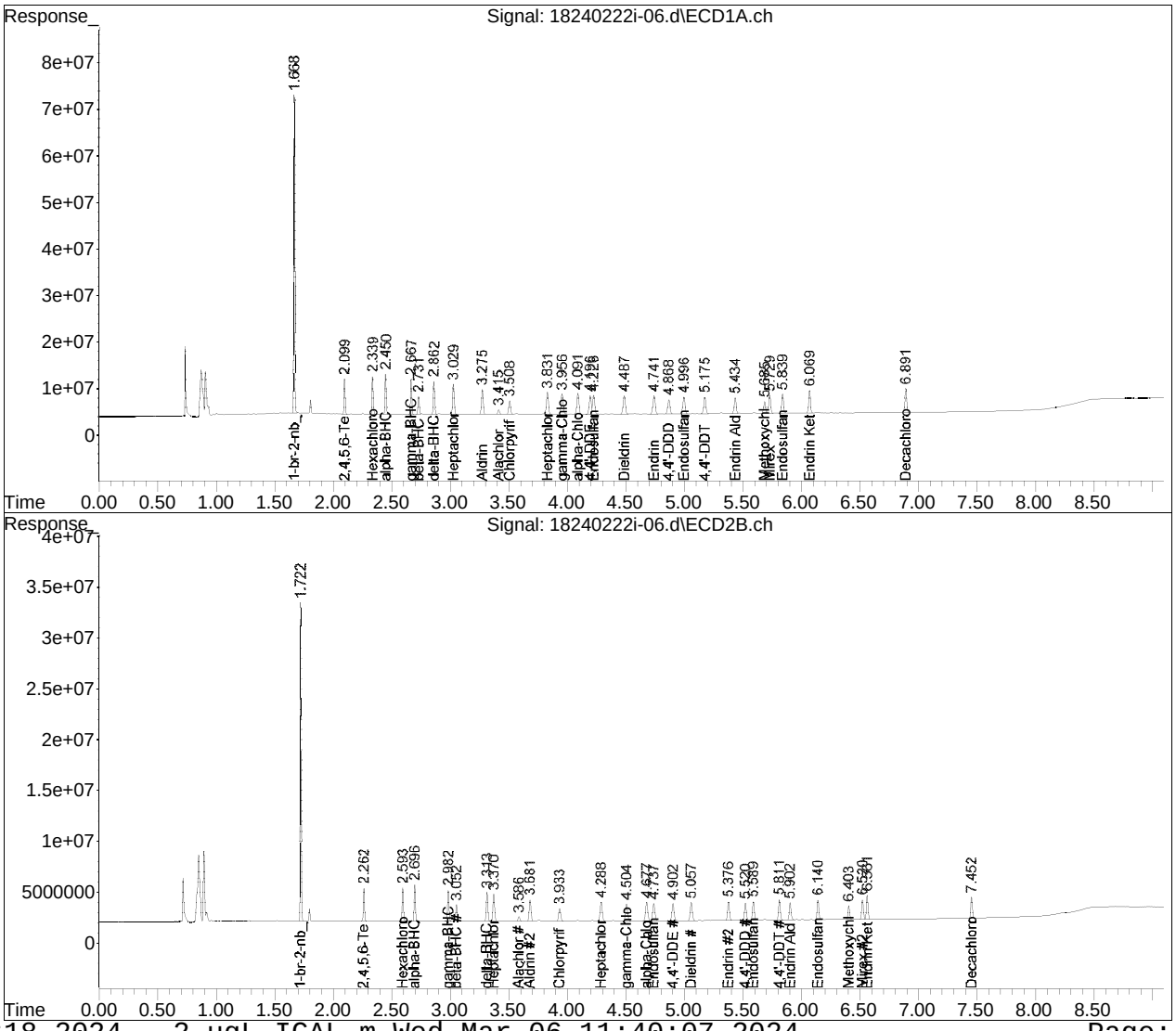
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:43 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:59:52 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:42:01 2024
Response via : Initial Calibration
Integrator: ChemStation

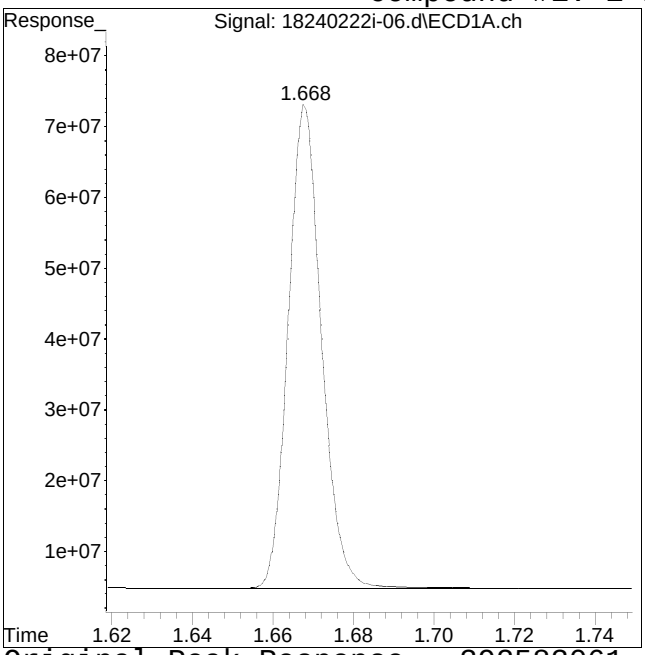
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

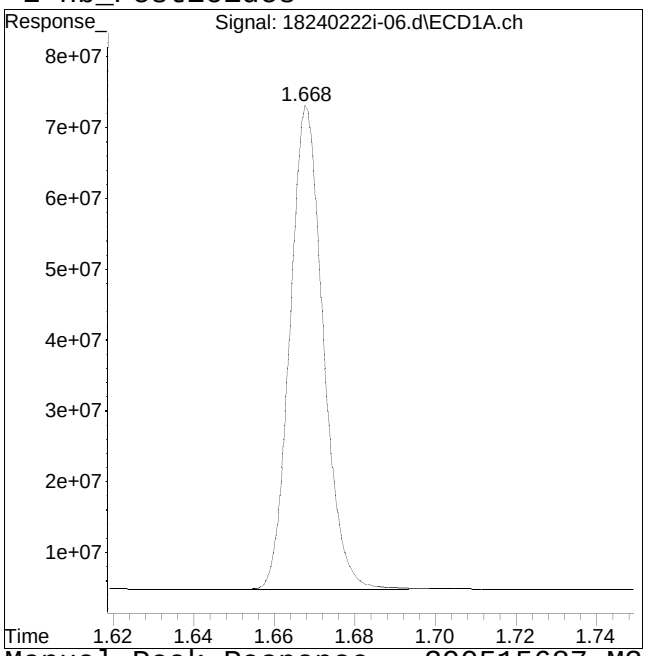


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #1: 1-br-2-nb_Pesticides



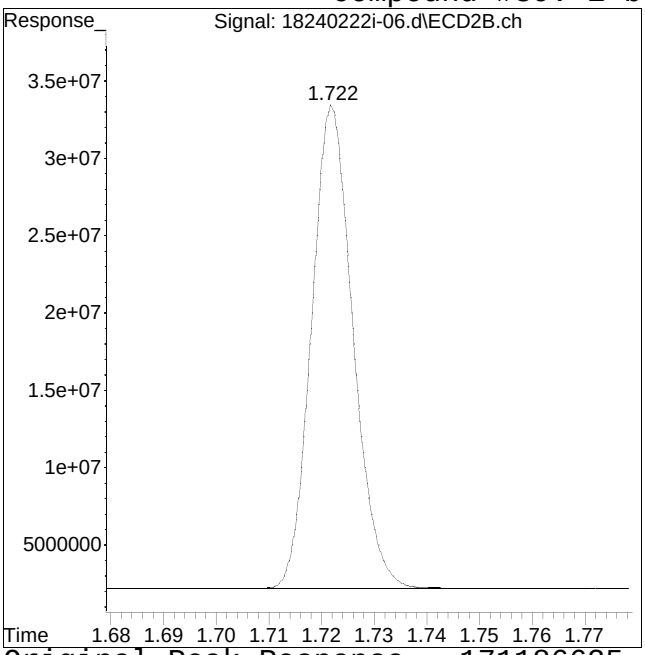


Original Peak Response = 392583061 Manual Peak Response = 390515687 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

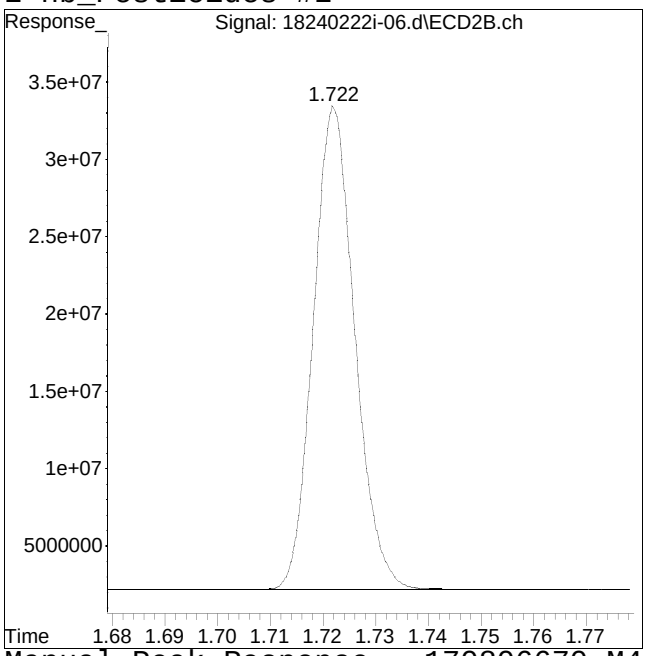
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 171186625



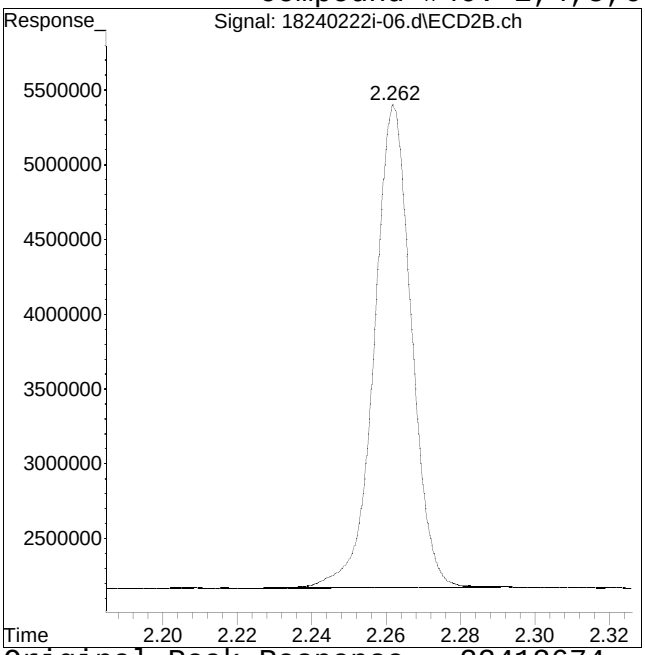
Manual Peak Response = 170806670 M4

M4 = Poor automated baseline construction.

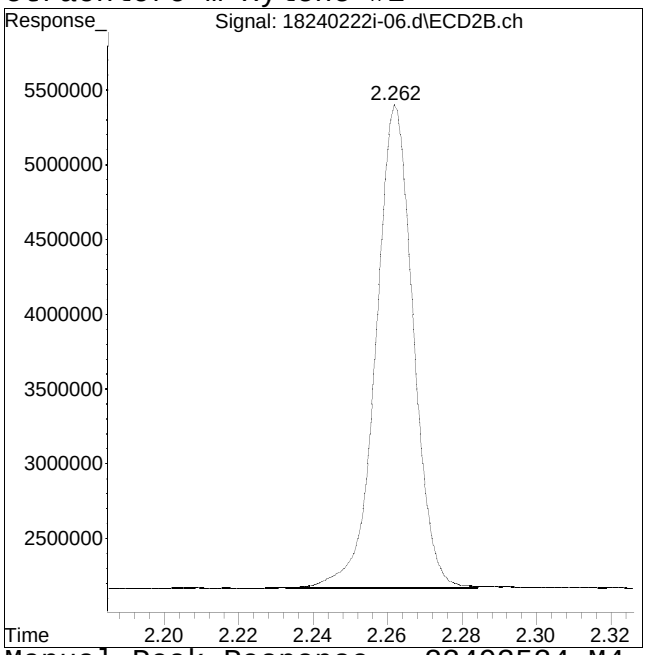
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 22412674



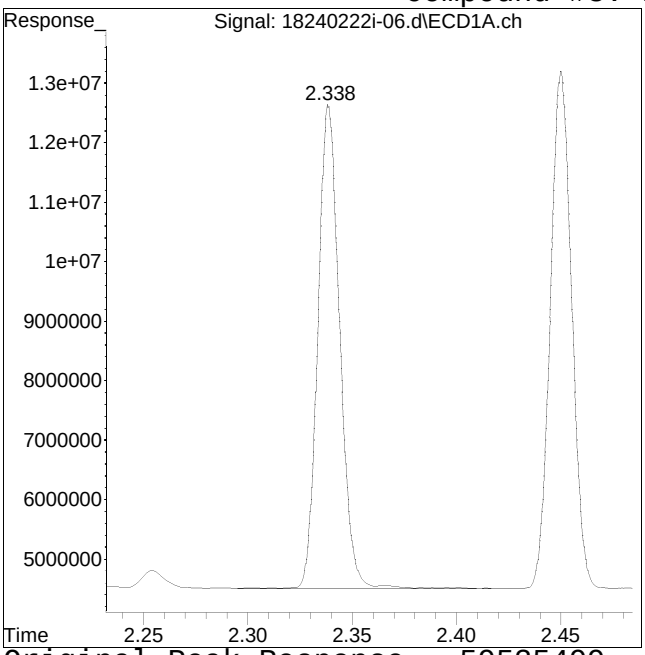
Manual Peak Response = 22493534 M4

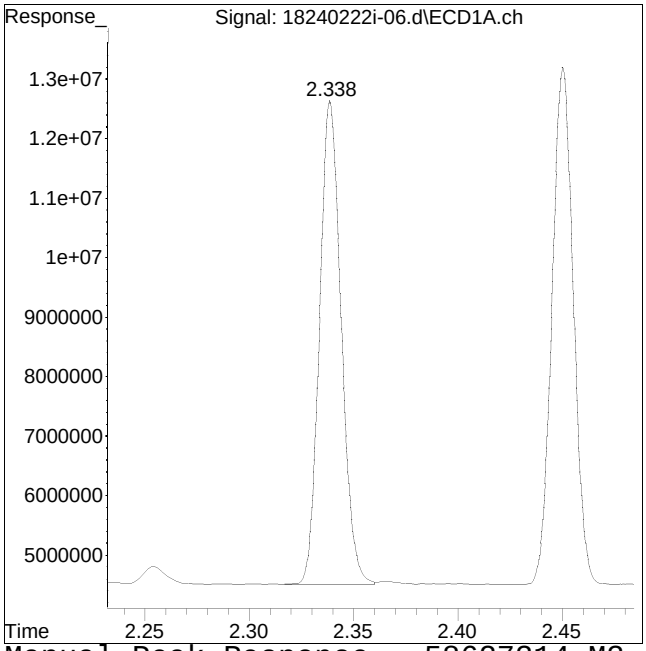
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #3: Hexachlorobenzene



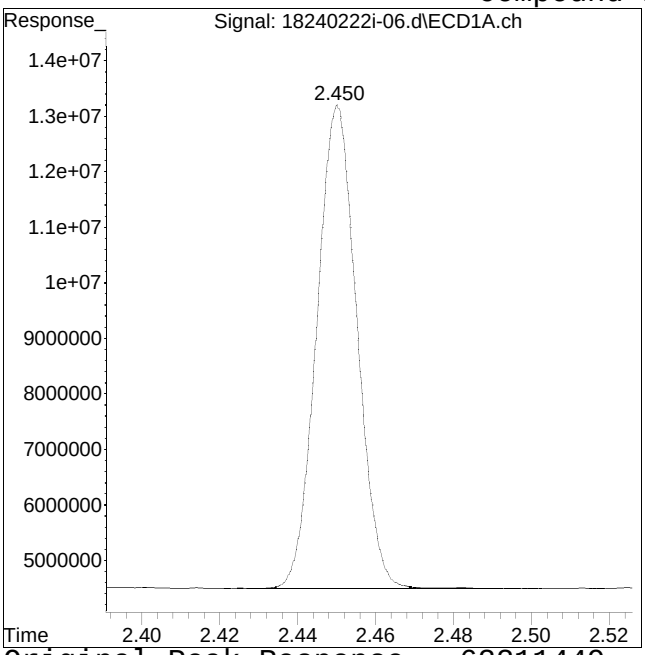


Original Peak Response = 59535499 Manual Peak Response = 58627314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

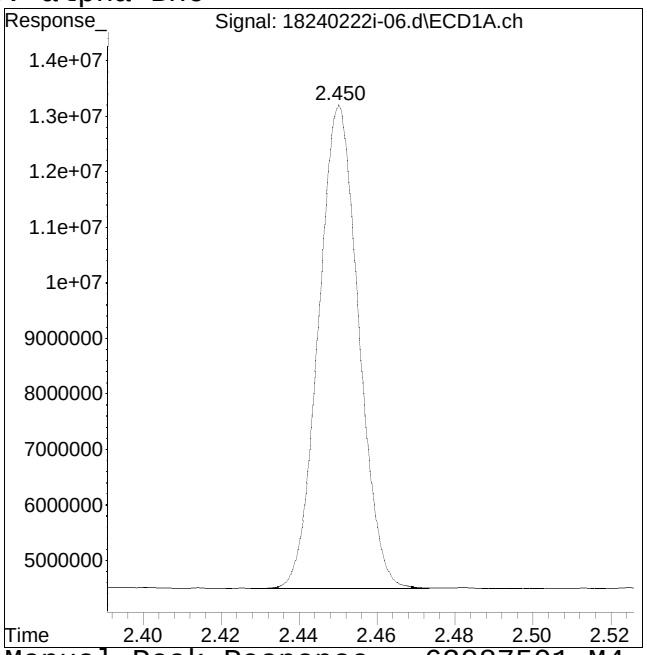
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #4: alpha-BHC



Original Peak Response = 62211449



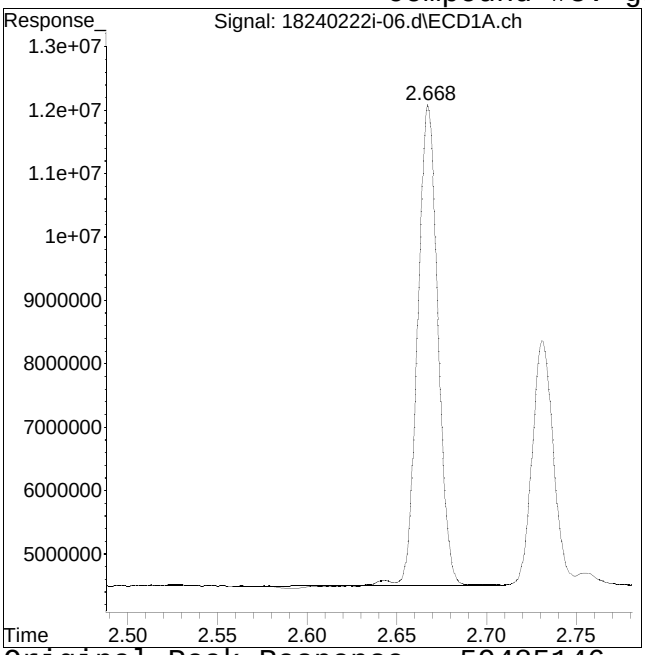
Manual Peak Response = 62087501 M4

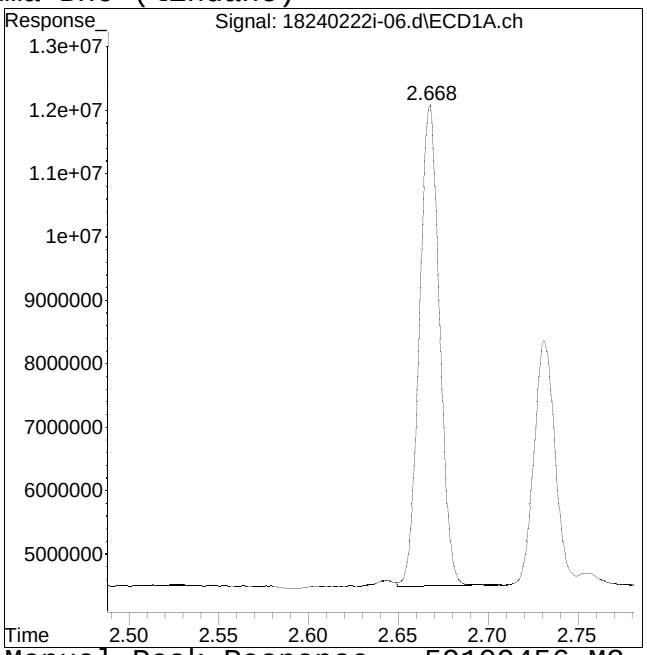
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #5: gamma-BHC (lindane)



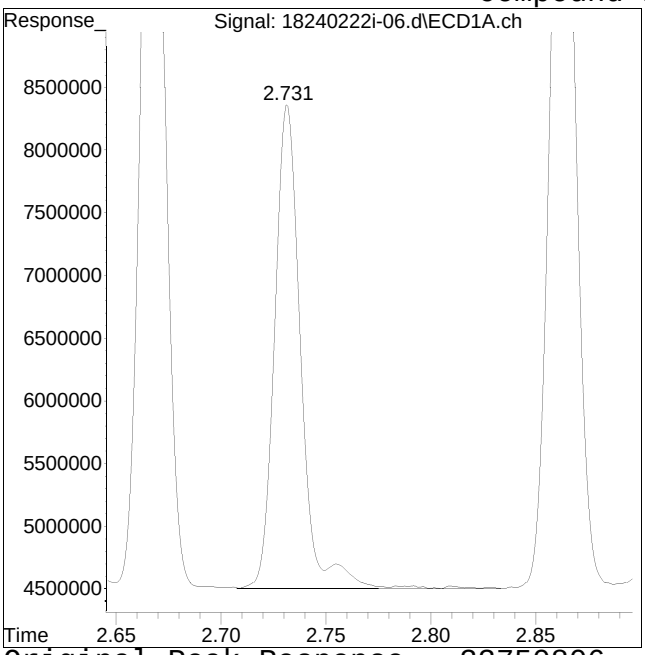


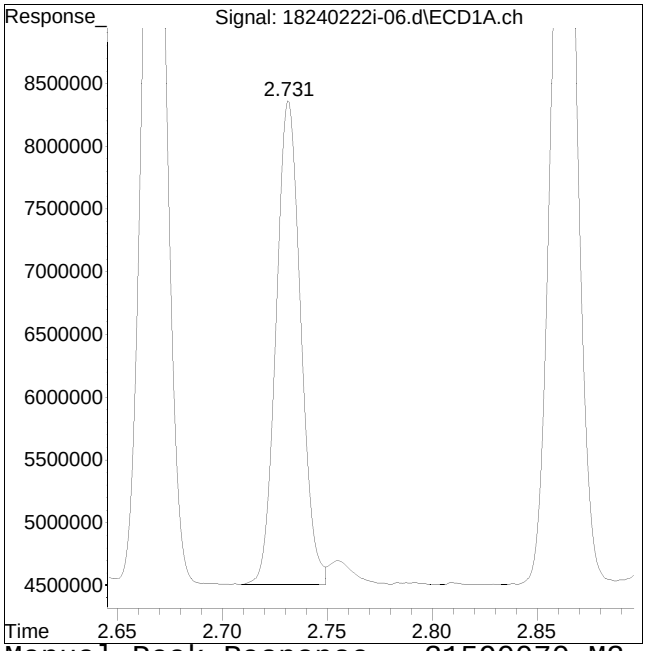
Original Peak Response = 59485146 Manual Peak Response = 59199456 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #6: beta-BHC



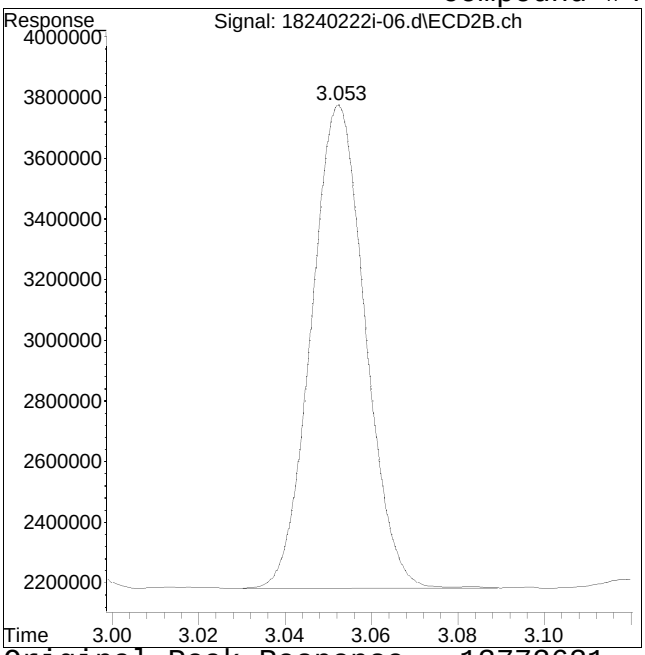


Original Peak Response = 33750806 Manual Peak Response = 31590070 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

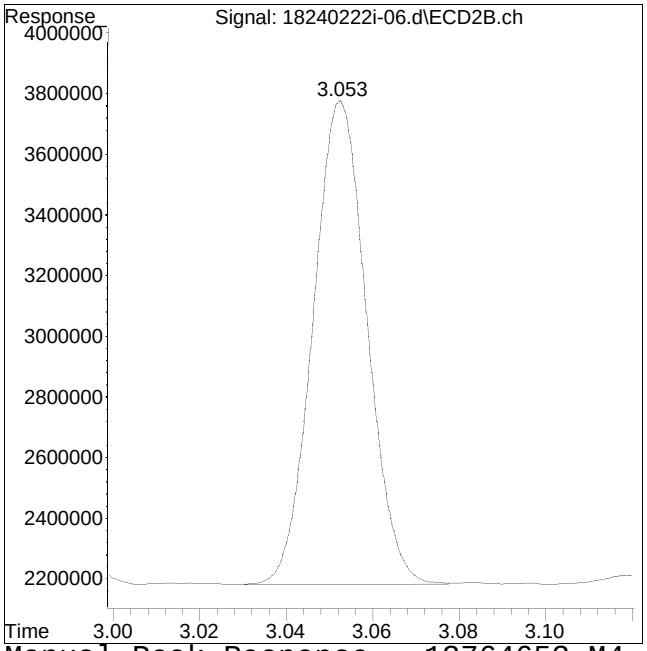
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #44: beta-BHC #2



Original Peak Response = 13773631

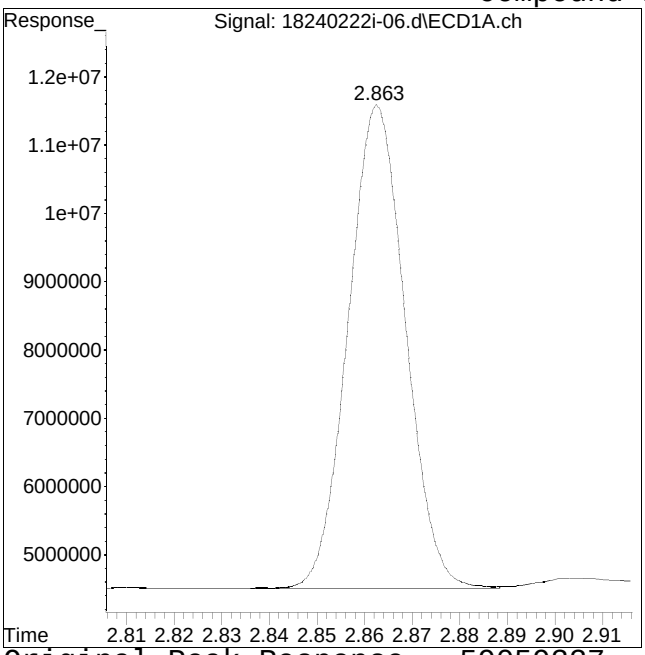


Manual Peak Response = 13764653 M4
M4 = Poor automated baseline construction.

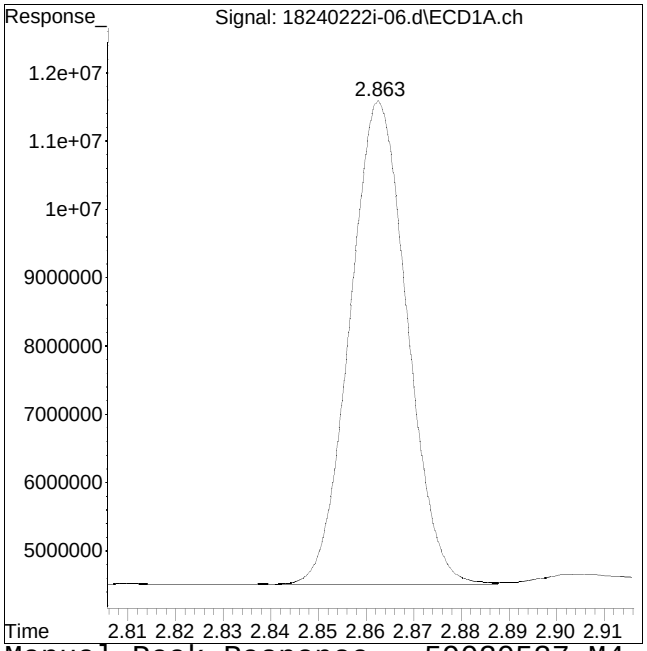
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #7: delta-BHC



Original Peak Response = 59059337



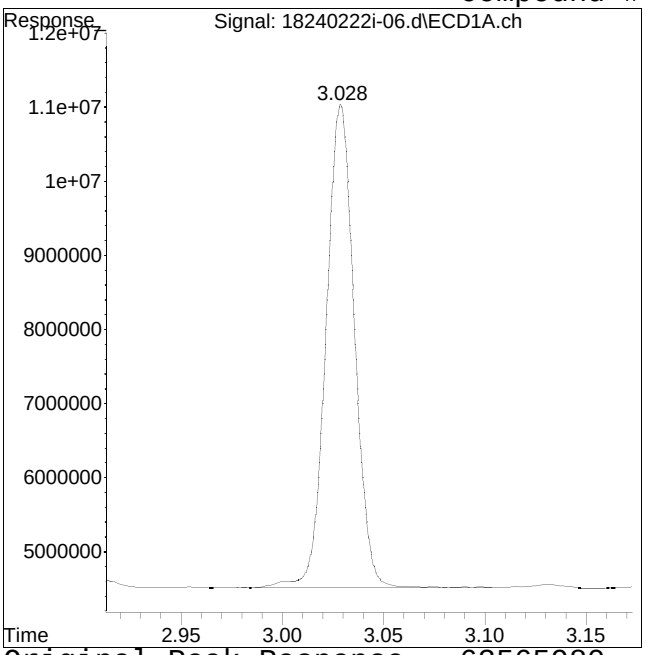
Manual Peak Response = 59030537 M4

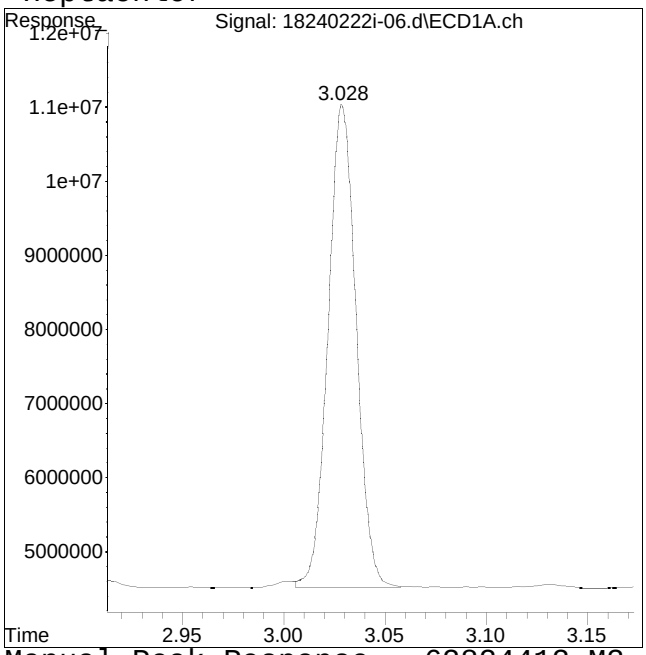
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #8: Heptachlor



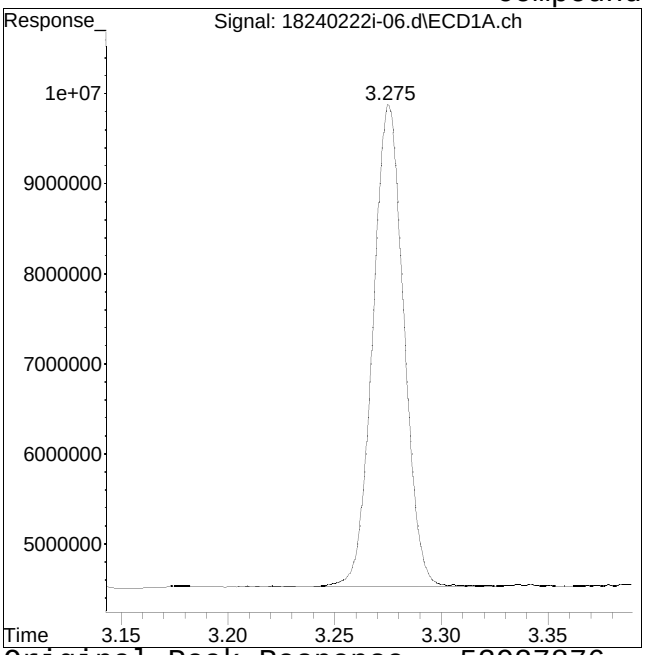


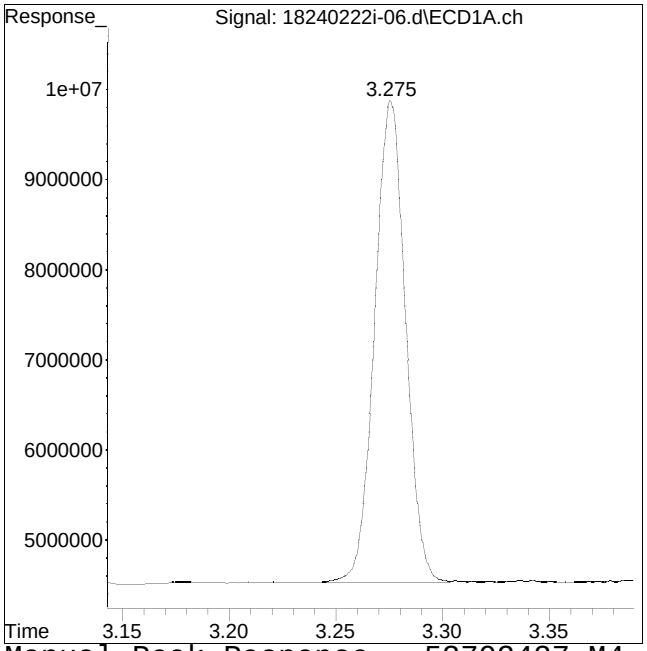
Original Peak Response = 63565980 Manual Peak Response = 62824412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #9: Aldrin



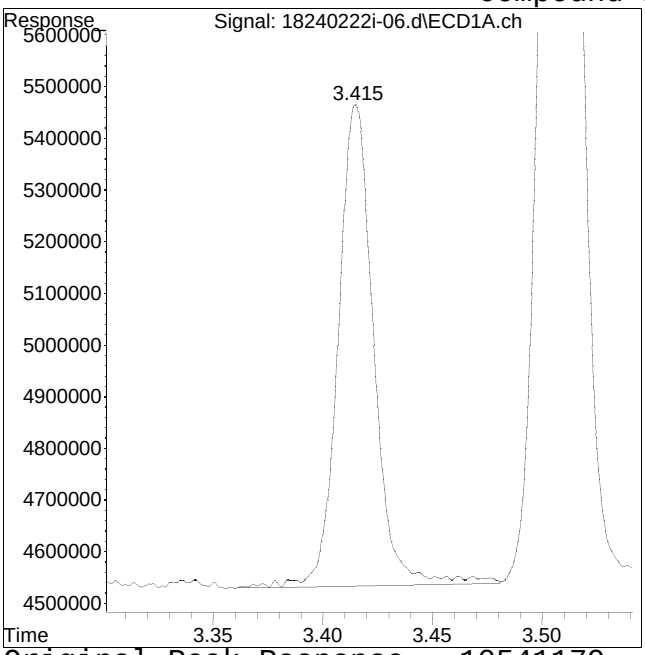


Original Peak Response = 53927876 Manual Peak Response = 53792427 M4
M4 = Poor automated baseline construction.

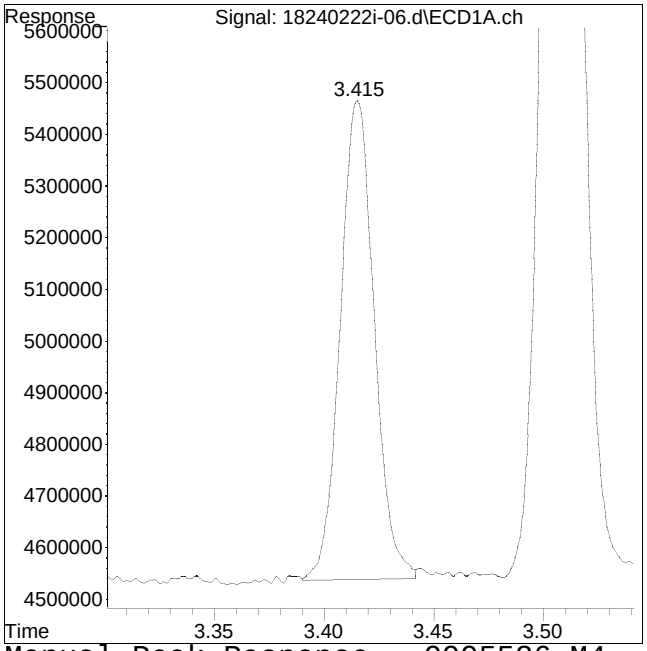
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #10: Alachlor



Original Peak Response = 10541179



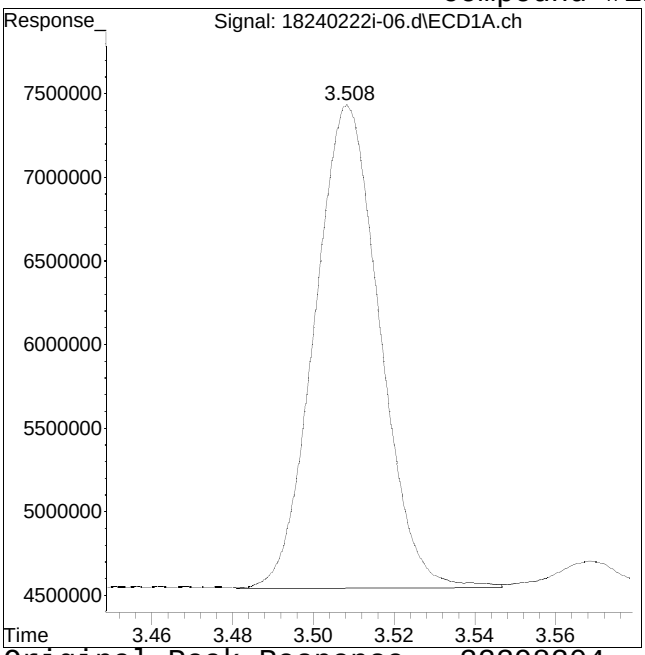
Manual Peak Response = 9995526 M4

M4 = Poor automated baseline construction.

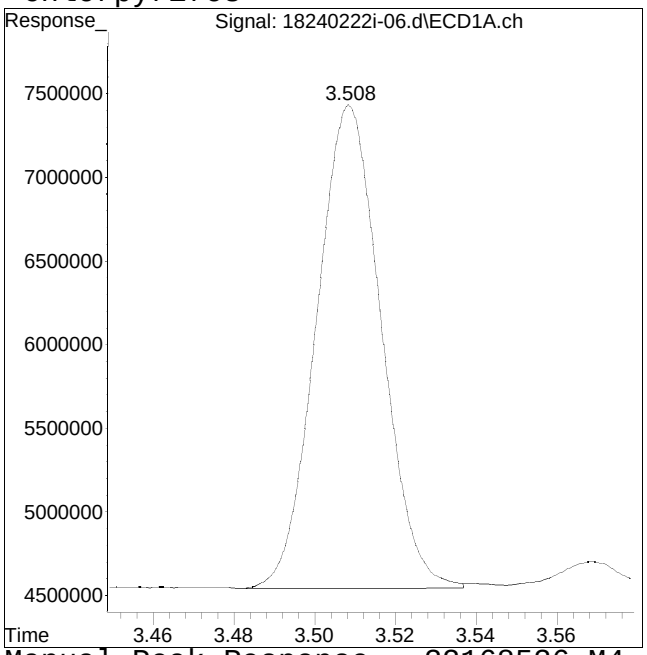
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #11: Chlorpyrifos



Original Peak Response = 32398204

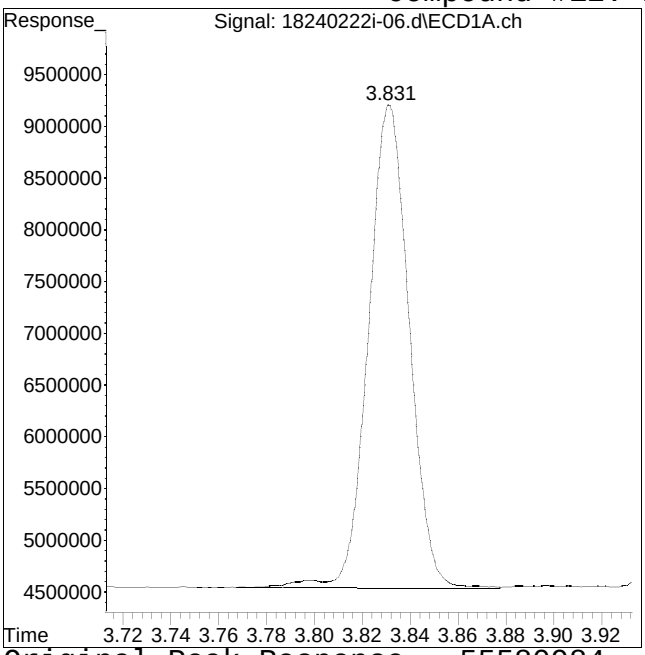


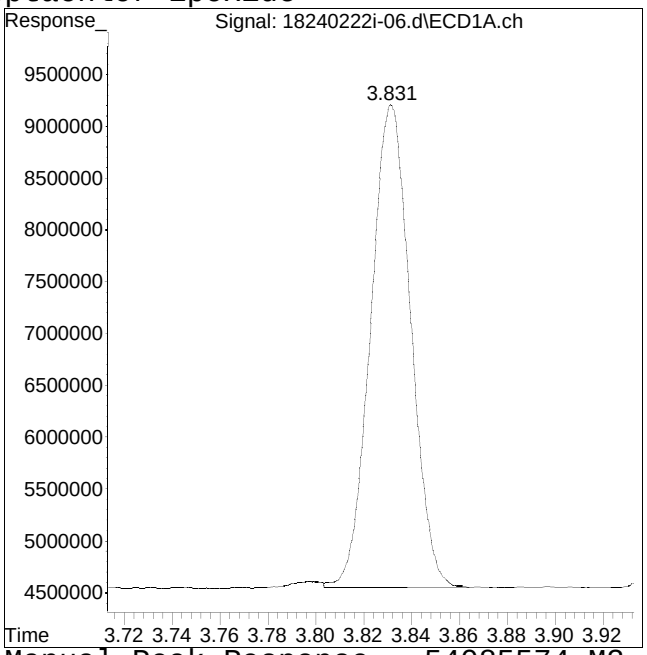
Manual Peak Response = 32168536 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #12: Heptachlor Epoxide



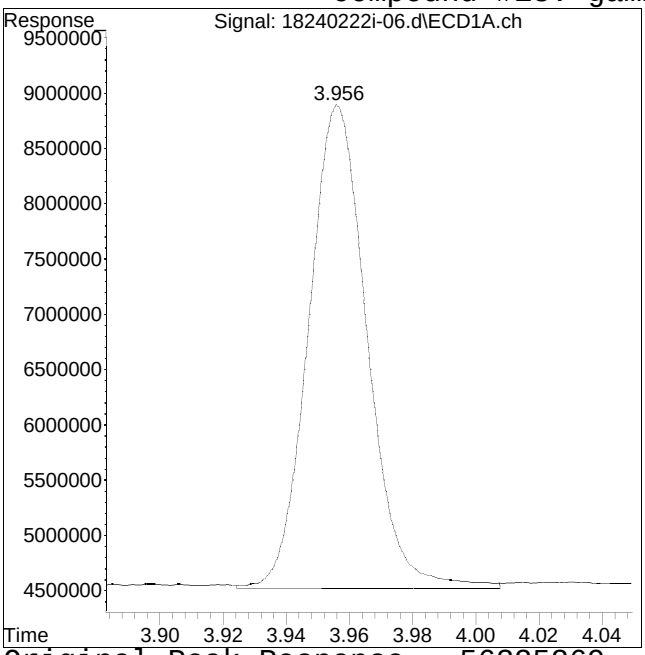


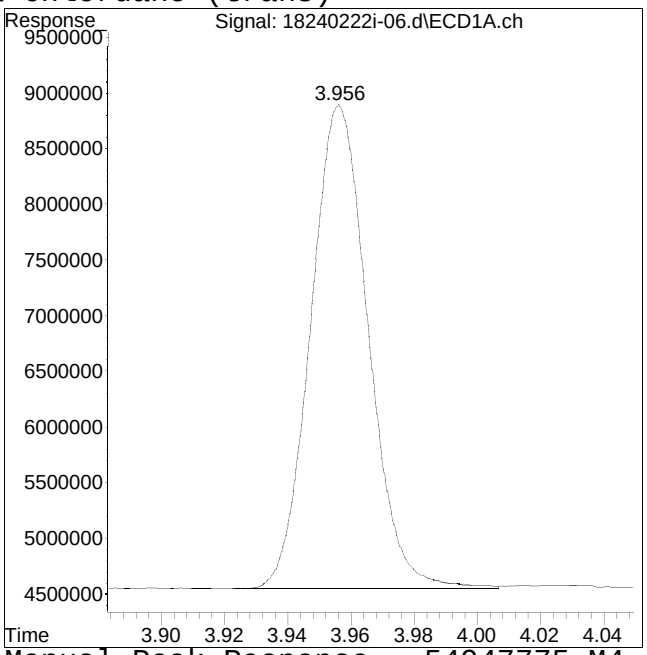
Original Peak Response = 55580984 Manual Peak Response = 54085574 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #13: gamma-Chlordane (trans)



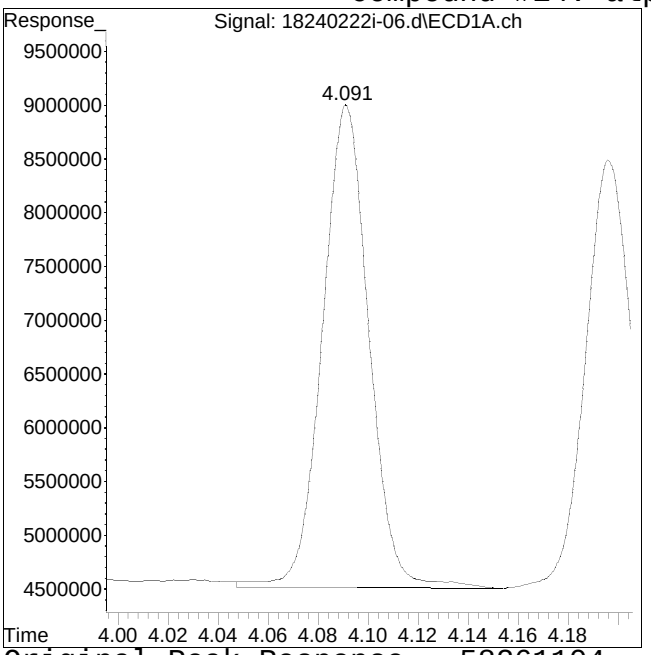


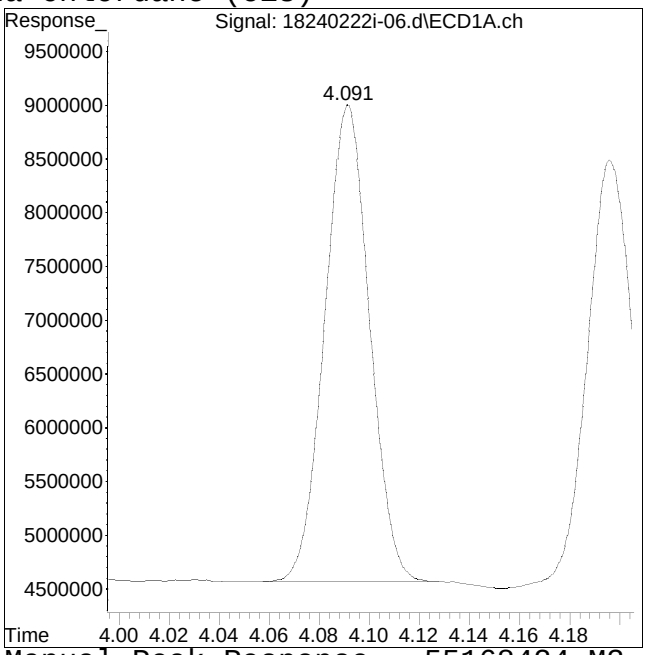
Original Peak Response = 56325269 Manual Peak Response = 54947775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #14: alpha-Chlordane (cis)



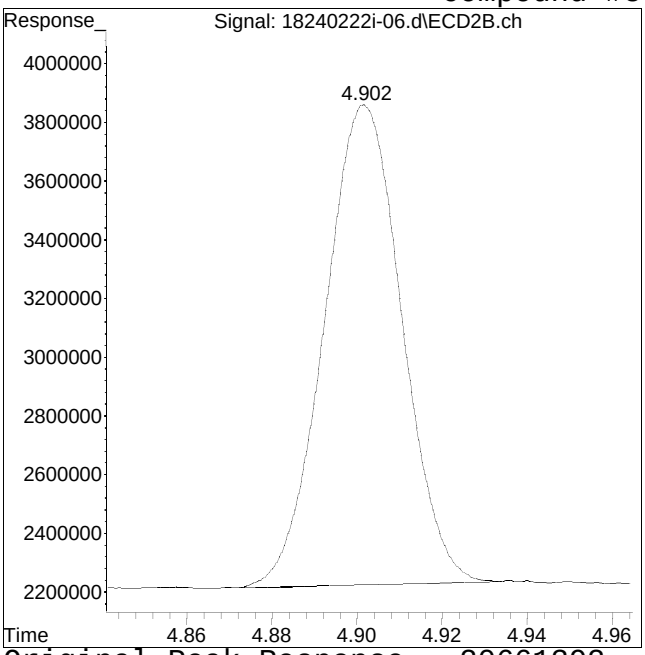


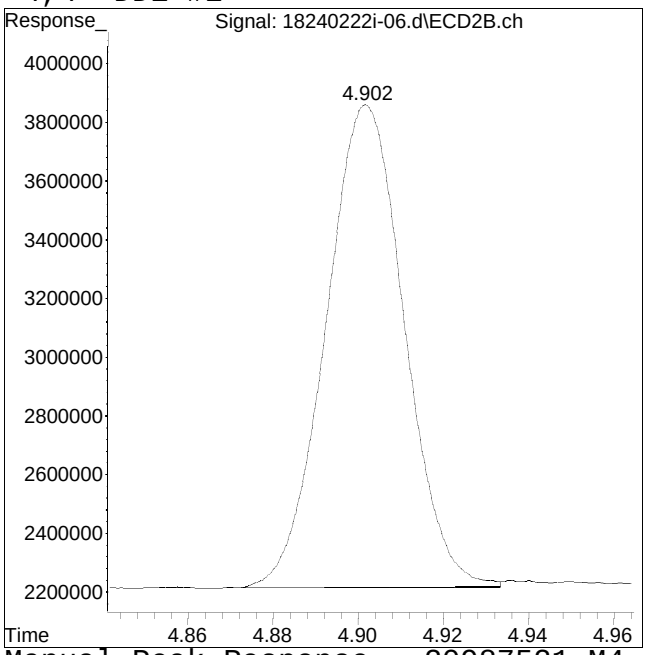
Original Peak Response = 58261104 Manual Peak Response = 55168424 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #53: 4,4'-DDE #2



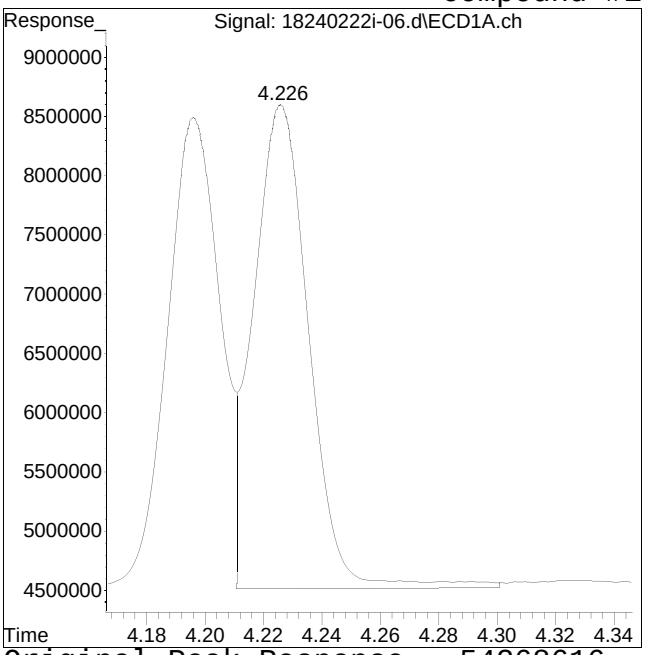


Original Peak Response = 20661392 Manual Peak Response = 20987521 M4
M4 = Poor automated baseline construction.

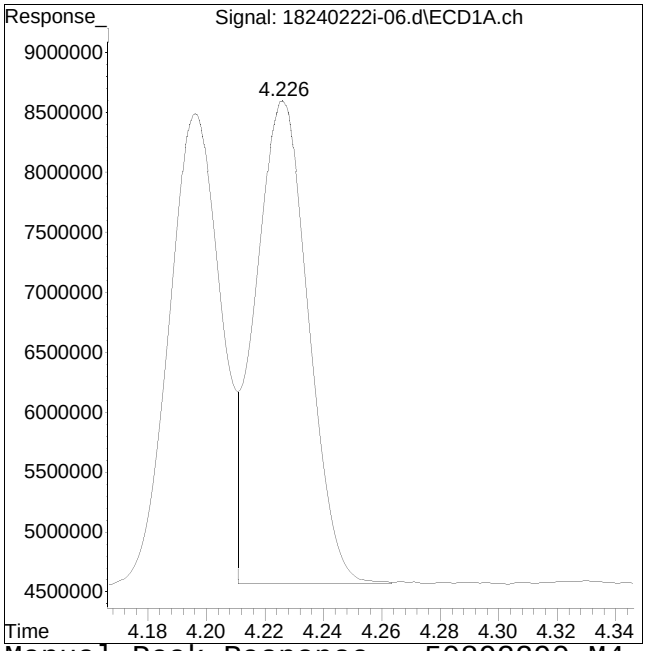
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #16: Endosulfan I



Original Peak Response = 54268616



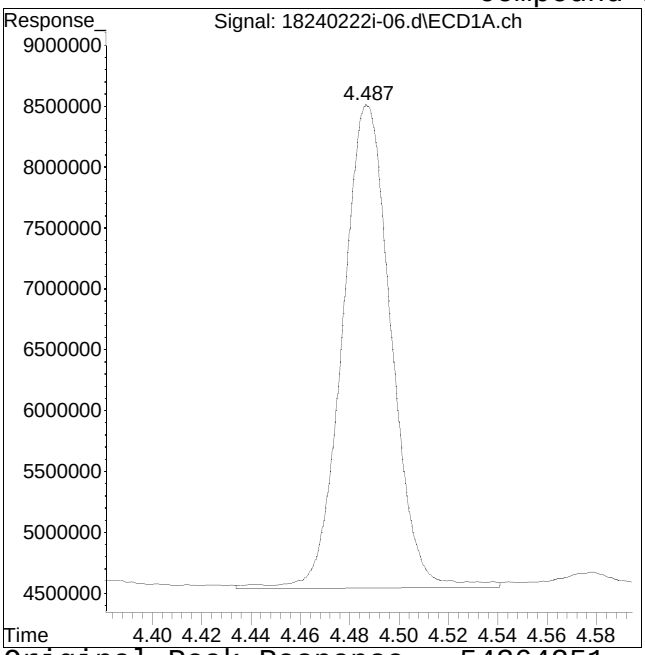
Manual Peak Response = 50892290 M4

M4 = Poor automated baseline construction.

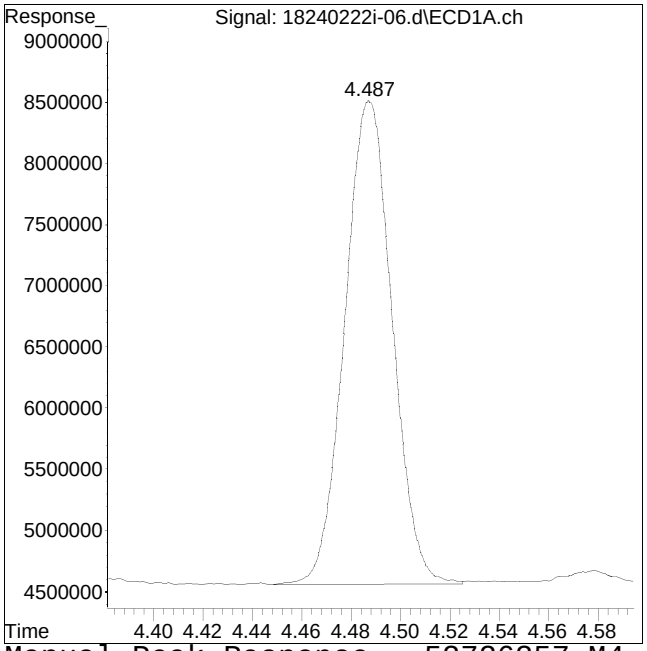
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #17: Dieldrin



Original Peak Response = 54364251



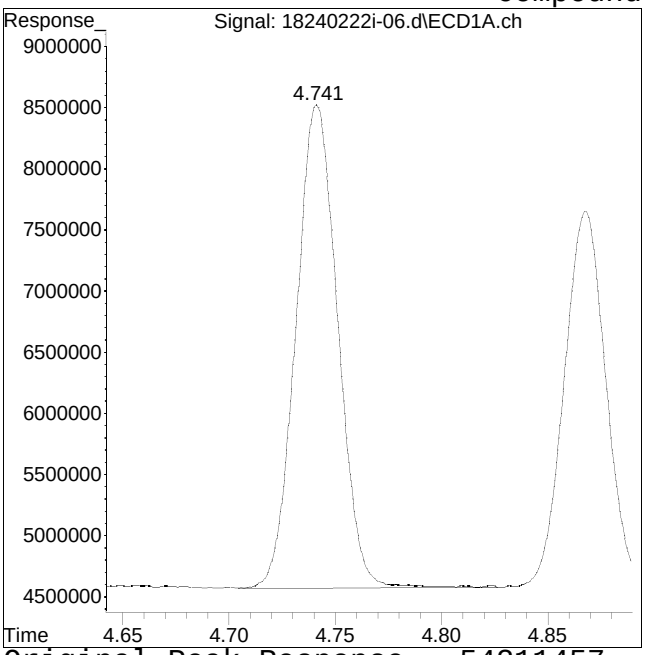
Manual Peak Response = 52726357 M4

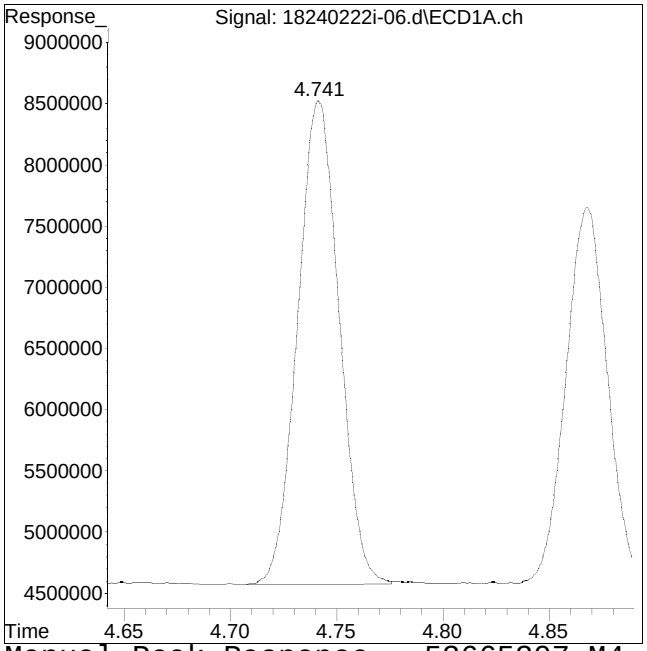
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #18: Endrin



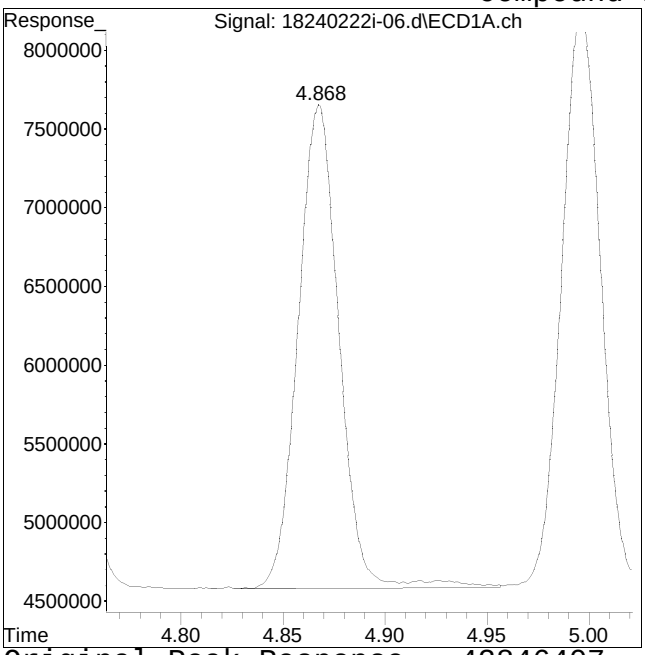


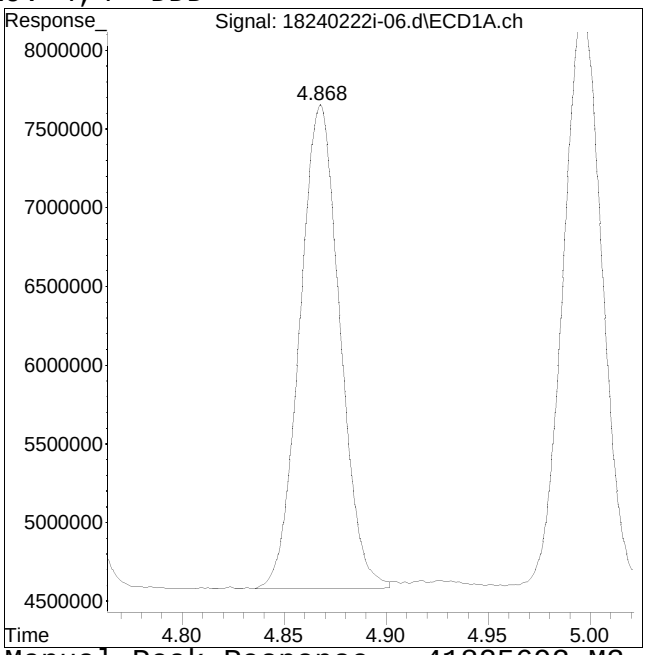
Original Peak Response = 54211457 Manual Peak Response = 53665307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #19: 4,4'-DDD



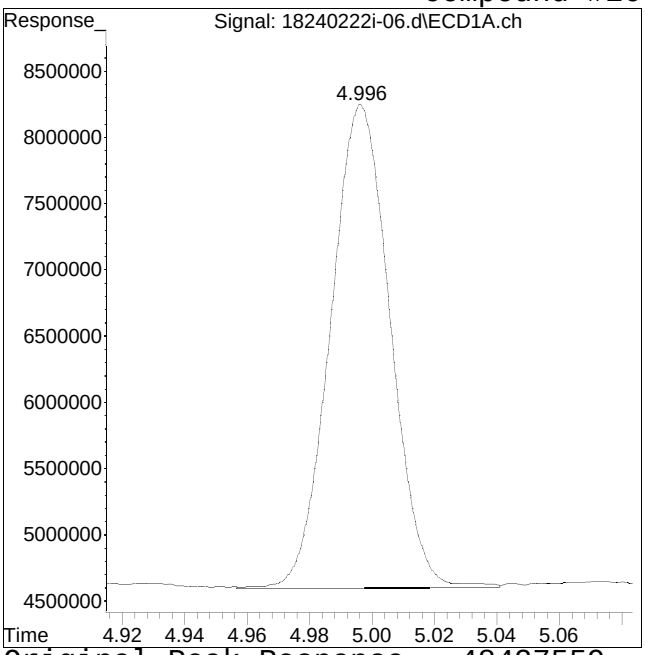


Original Peak Response = 42846407 Manual Peak Response = 41825692 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

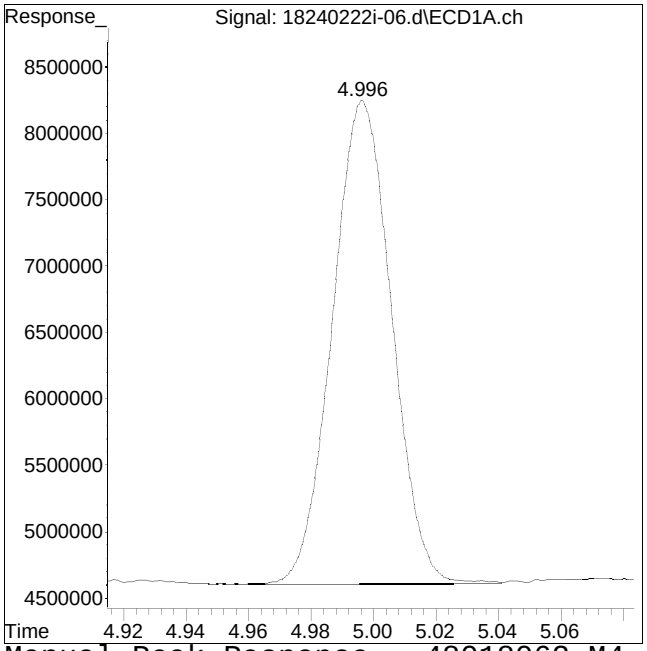
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #20: Endosulfan II



Original Peak Response = 48427559



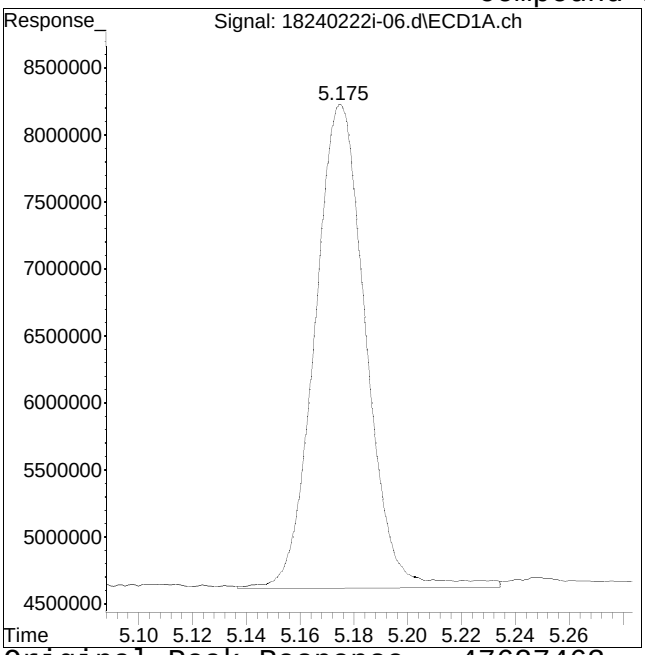
Manual Peak Response = 48018062 M4

M4 = Poor automated baseline construction.

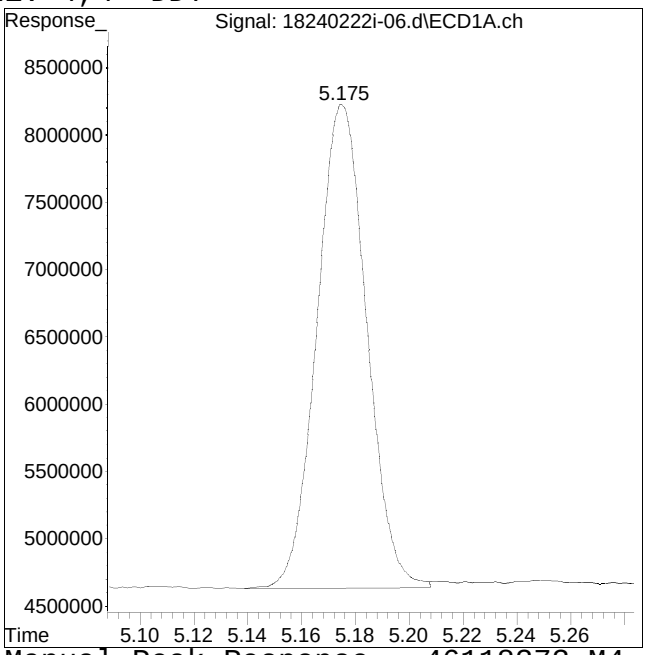
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #21: 4,4'-DDT



Original Peak Response = 47627463



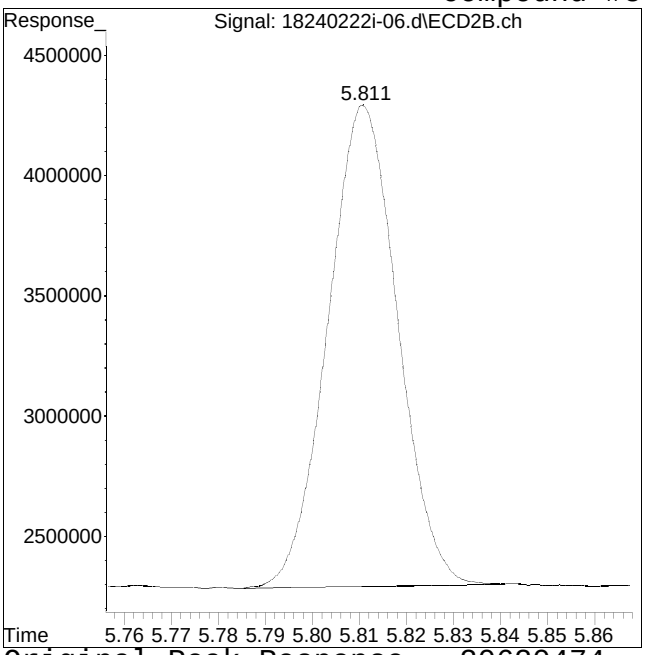
Manual Peak Response = 46118373 M4

M4 = Poor automated baseline construction.

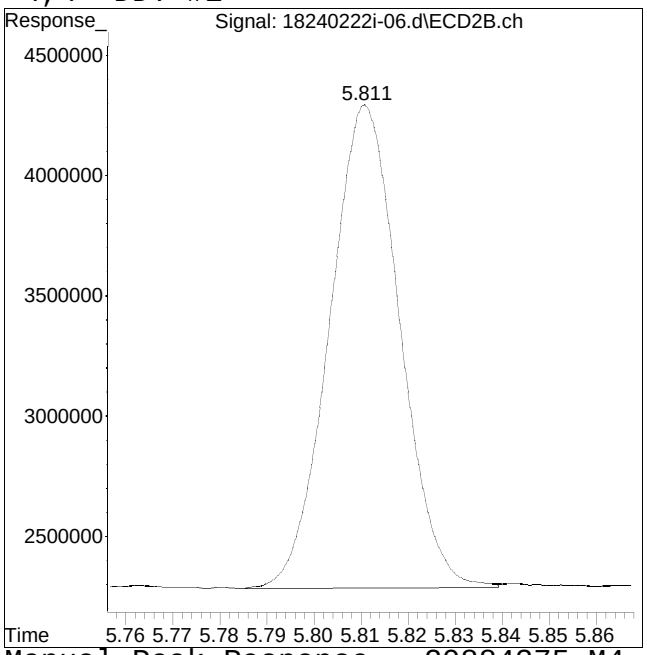
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 20620474



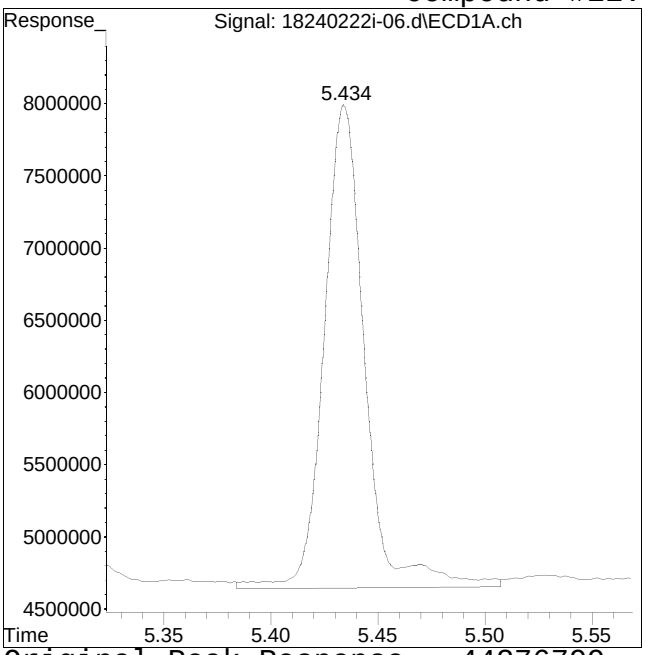
Manual Peak Response = 20884375 M4

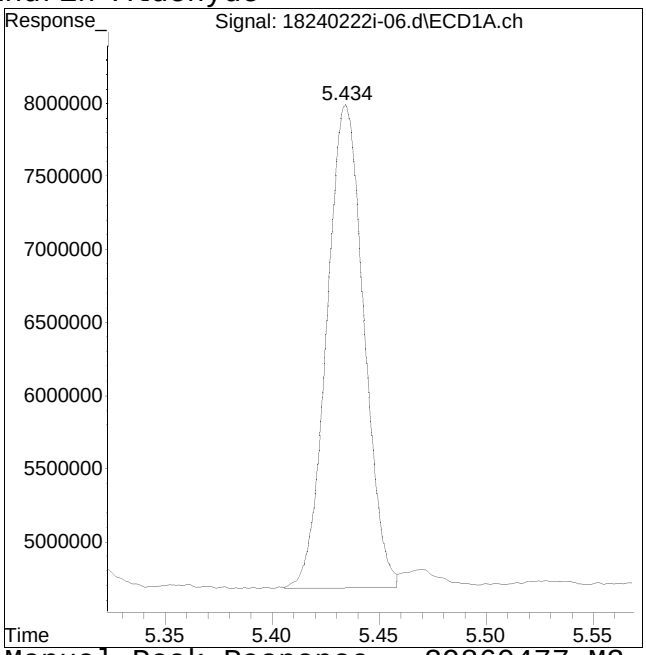
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #22: Endrin Aldehyde





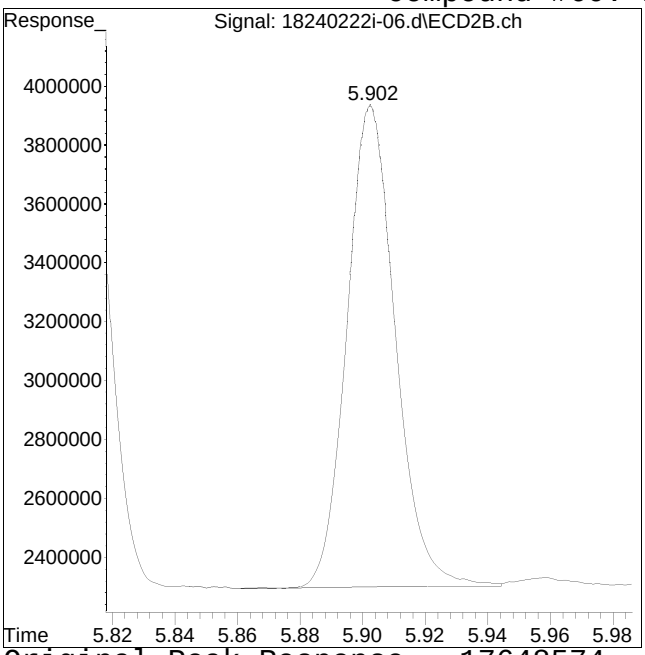
Original Peak Response = 44276799 Manual Peak Response = 39860477 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

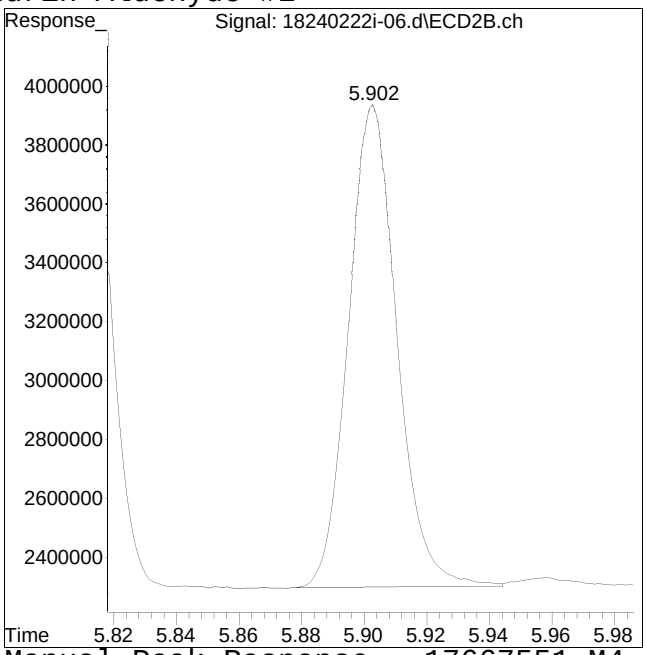
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-06.d
Date Inj'd : 2/22/2024 1:43 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 2:42 pm

Compound #60: Endrin Aldehyde #2



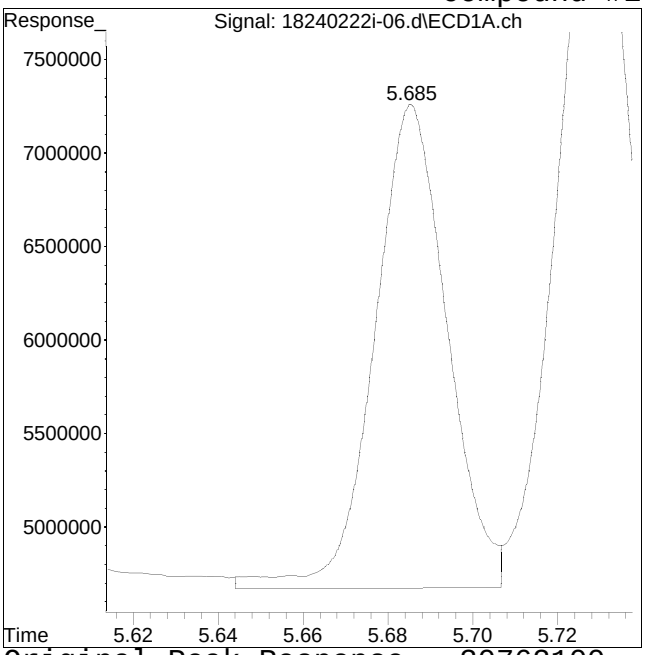


Original Peak Response = 17648574 Manual Peak Response = 17667551 M4
M4 = Poor automated baseline construction.

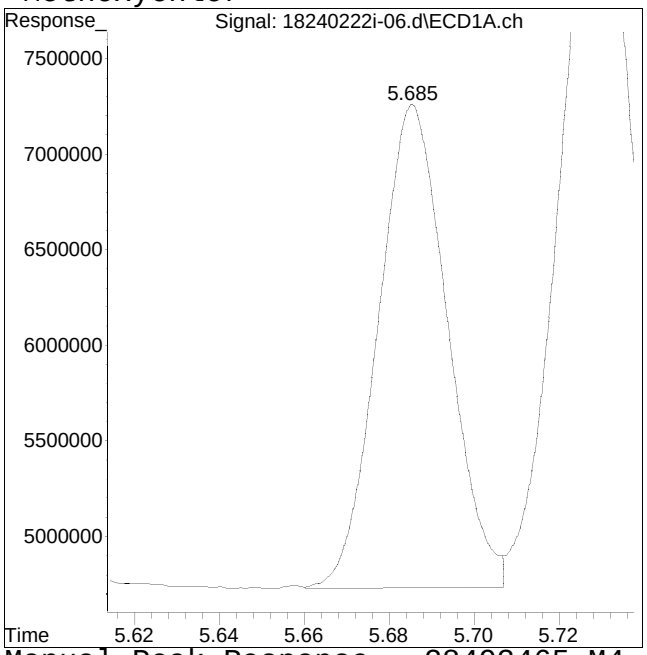
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #23: Methoxychlor



Original Peak Response = 30762100



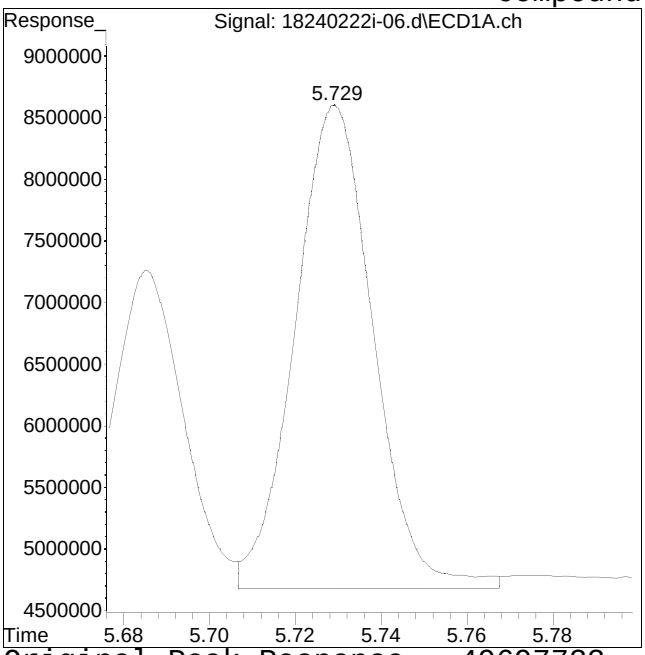
Manual Peak Response = 28493465 M4

M4 = Poor automated baseline construction.

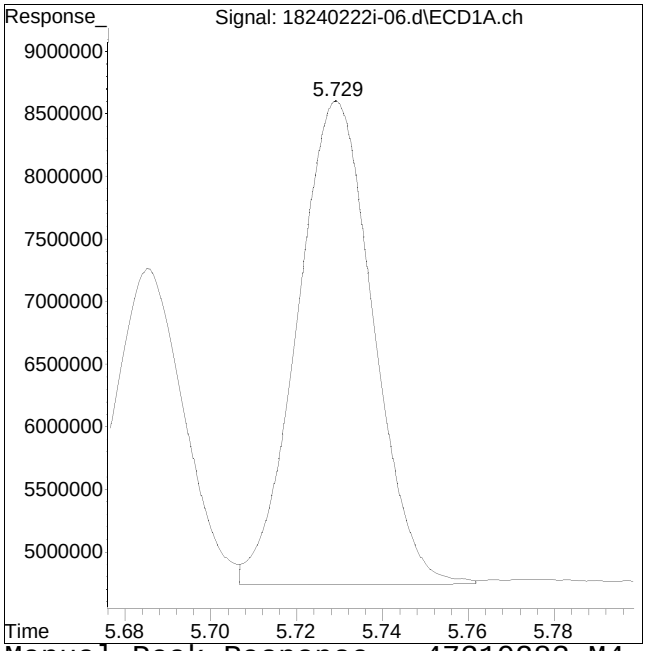
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #24: Mirex



Original Peak Response = 49697733



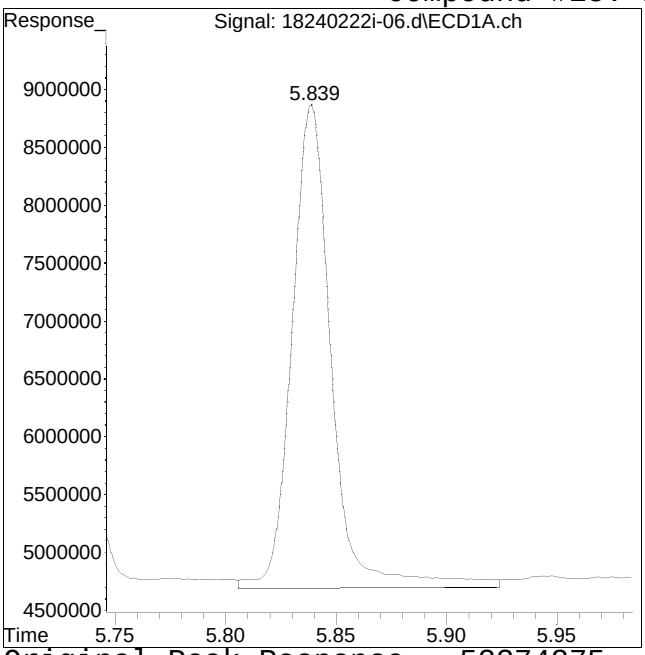
Manual Peak Response = 47310283 M4

M4 = Poor automated baseline construction.

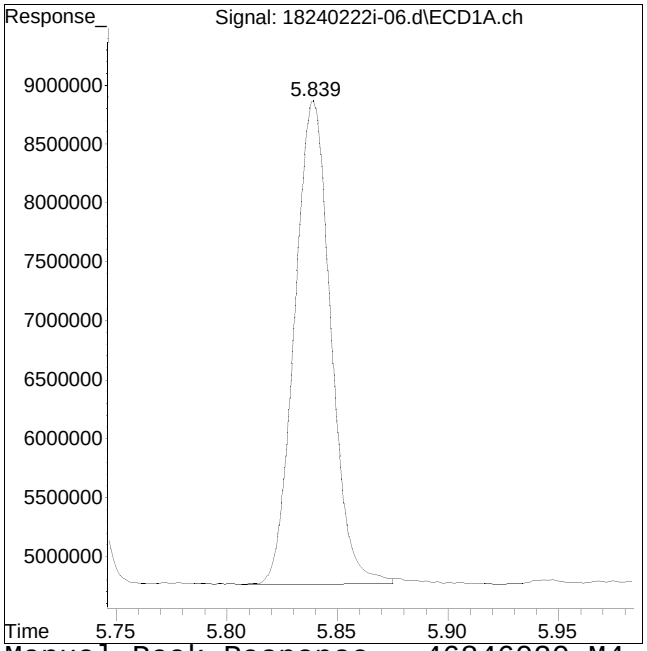
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 52374275



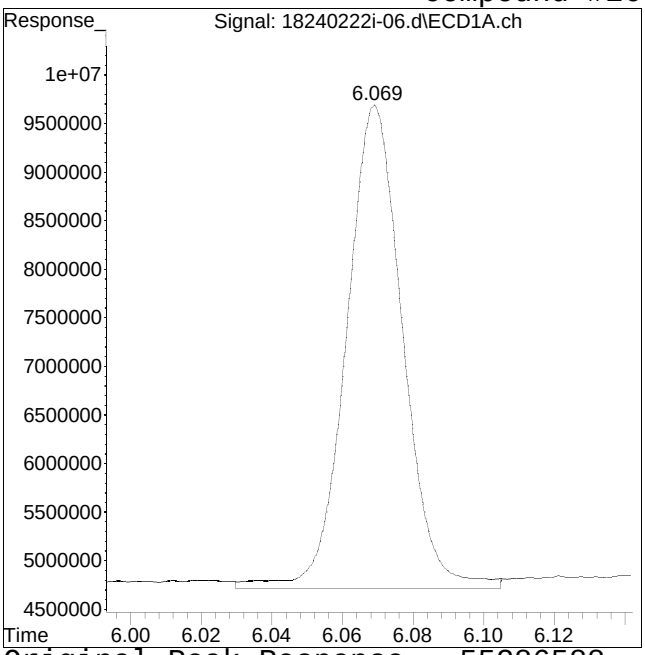
Manual Peak Response = 46846020 M4

M4 = Poor automated baseline construction.

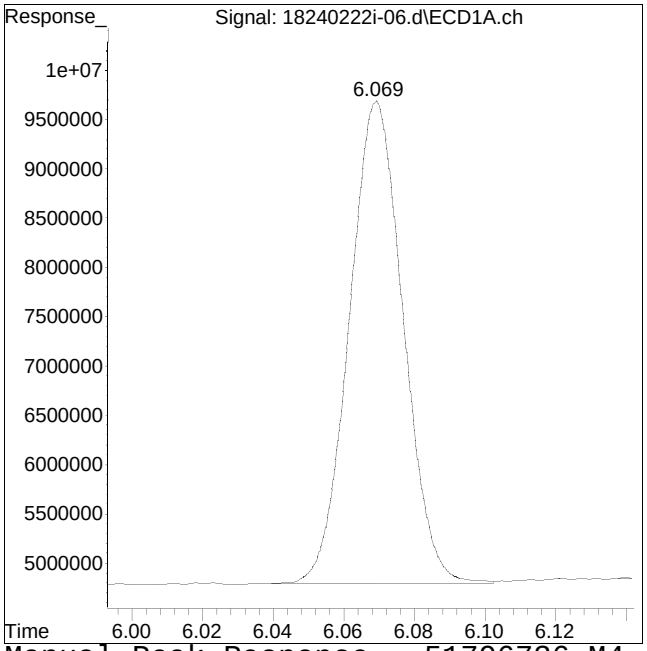
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #26: Endrin Ketone



Original Peak Response = 55286588



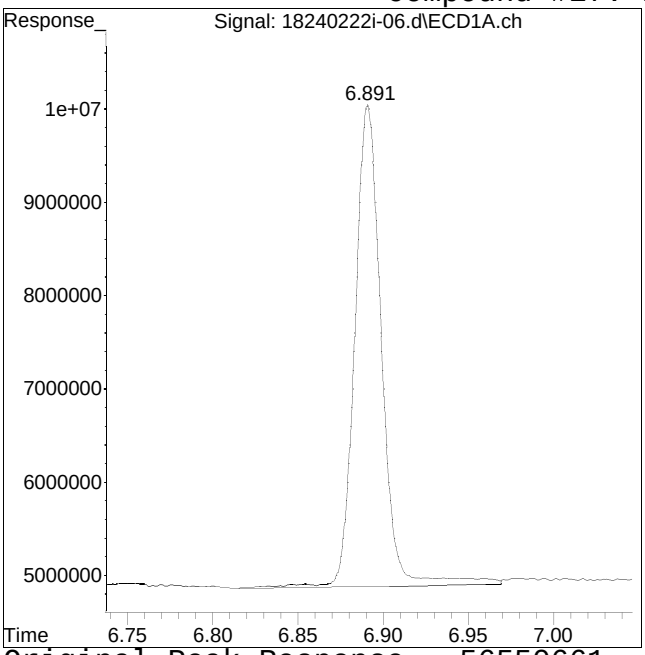
Manual Peak Response = 51796736 M4

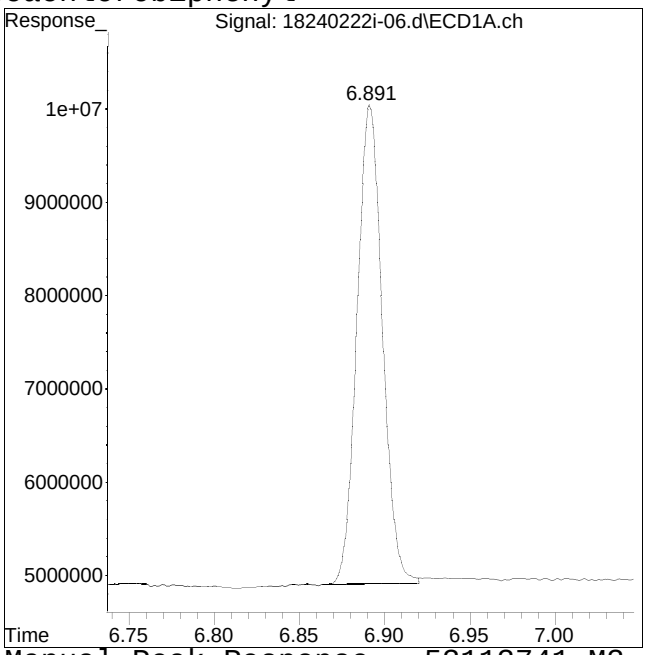
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-06.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:43 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 2/27/2024 2:42 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 56550661 Manual Peak Response = 53113741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:54 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:41:20 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:37:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.669	1.722	398.3E6	174.7E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	64953534	28909171	4.501M4	4.513
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.00%#	9.03%#
27) s	Decachlorobi	6.891	7.450	68556244	26286934	4.976M3	4.961M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.95%#	9.92%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.594	75799629	32070499	4.788M3	4.699
4)	alpha-BHC	2.451	2.696	82114837	35057658	4.015M4	3.862
5)	gamma-BHC (l	2.668	2.982	77546584	33574744	4.161M3	4.032
6)	beta-BHC	2.732	3.053	40307304	17829003	4.851M3	4.704
7)	delta-BHC	2.864	3.314	77417115	33568434	4.094	3.944
8)	Heptachlor	3.030	3.371	80983481	34659559	4.581M4	4.360
9)	Aldrin	3.276	3.681	70619459	29792473	4.285M4	4.059
10)	Alachlor	3.416	3.586	12985377	5503943	4.751M4	4.602M4
11)	Chlorpyrifos	3.510	3.934	42029377	18576611	5.339	5.055
12)	Heptachlor E	3.832	4.288	70374873	29650846	4.618M3	4.290M4
13)	gamma-Chlord	3.957	4.505	64242752	27037220	4.539M4	4.264
14)	alpha-Chlord	4.092	4.677	71410649	30812238	4.516M3	4.360
15)	4,4'-DDE	4.197	4.902	65827553	27540498	4.225	3.958
16)	Endosulfan I	4.227	4.738	66151343	28473436	4.587M4	4.333
17)	Dieldrin	4.487	5.059	66870535	28051540	4.346M4	4.096
18)	Endrin	4.742	5.377	69898410	26697588	4.431M4	3.908
19)	4,4'-DDD	4.869	5.521	54068821	23043815	4.279	4.073

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:54 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:41:20 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:37:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	4.997	5.589	62414505	26405774	4.611	4.365
21)	4,4'-DDT	5.176	5.811	57570913	27045242	4.074M4	4.182
22)	Endrin Aldeh	5.434	5.902	51568686	22022563	4.561M3	4.396
23)	Methoxychlor	5.686	6.403	37040153	17250428	5.004	4.970
24)	Mirex	5.730	6.520	60828150	25883041	5.193M3	5.044
25)	Endosulfan S	5.839	6.140	61199049	25701962	4.599M4	4.460
26)	Endrin Keton	6.070	6.561	67249391	29573696	4.559M4	4.442
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

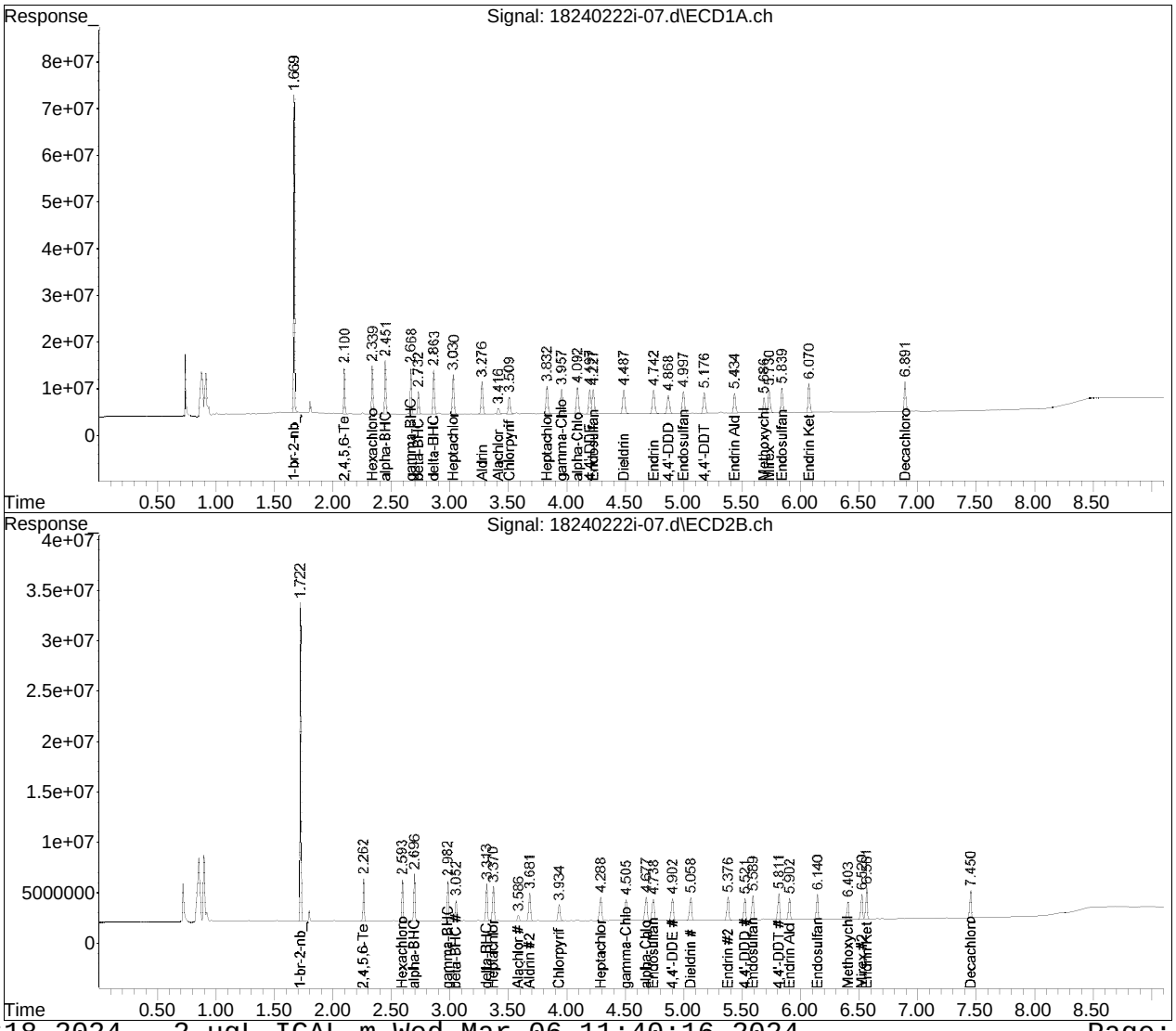
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 1:54 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:41:20 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:37:30 2024
Response via : Initial Calibration
Integrator: ChemStation

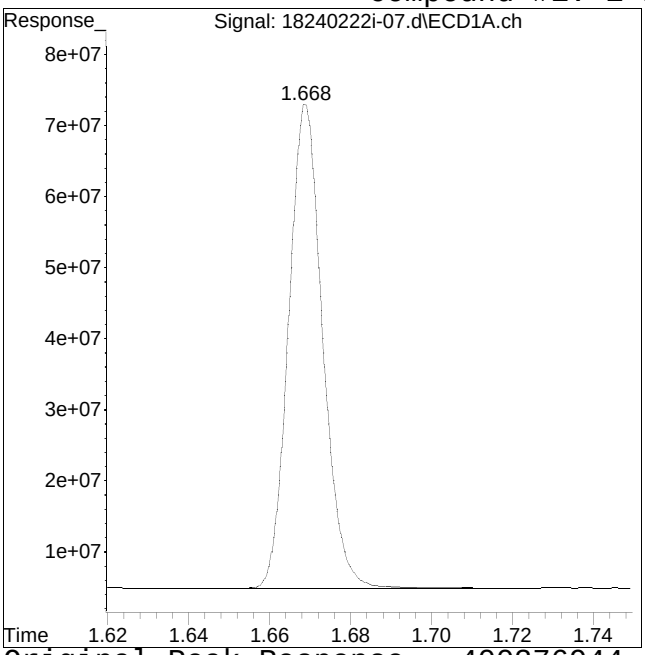
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

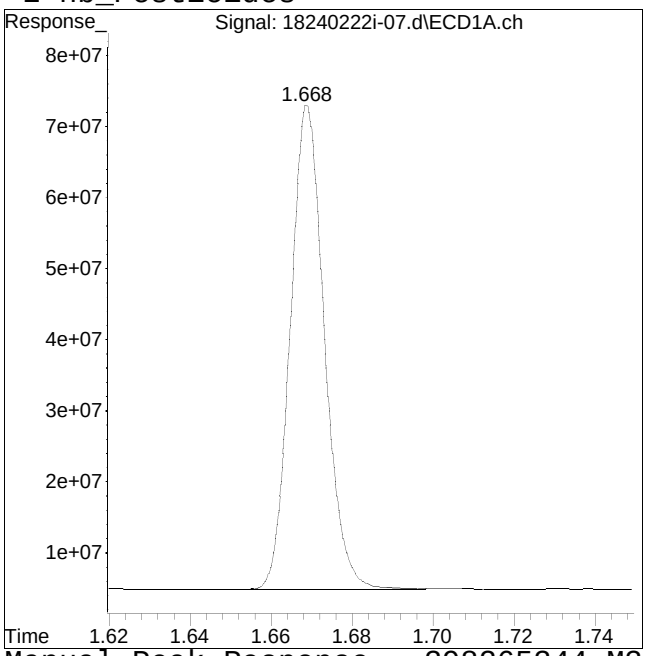


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-07.d
Date Inj'd : 2/22/2024 1:54 pm
Sample : il5pest,42e,,pp 11402 L0.0
Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 2:37 pm

Compound #1: 1-br-2-nb_Pesticides



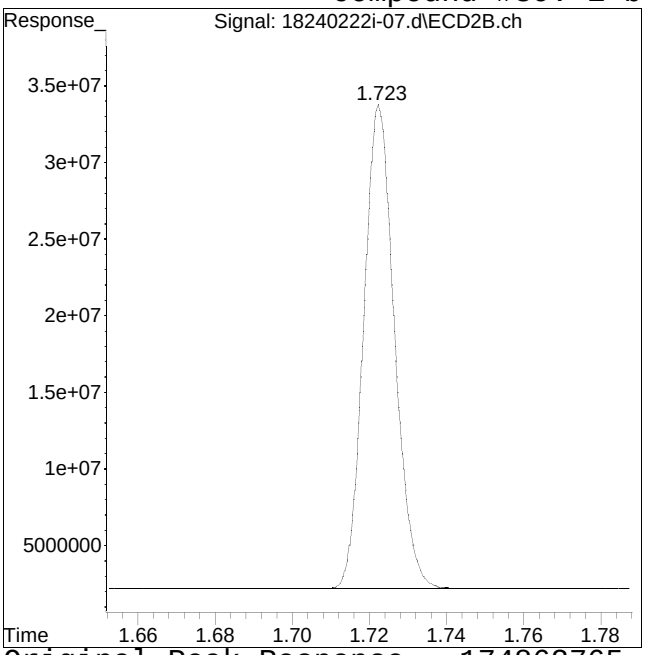


Original Peak Response = 400376944 Manual Peak Response = 398265344 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

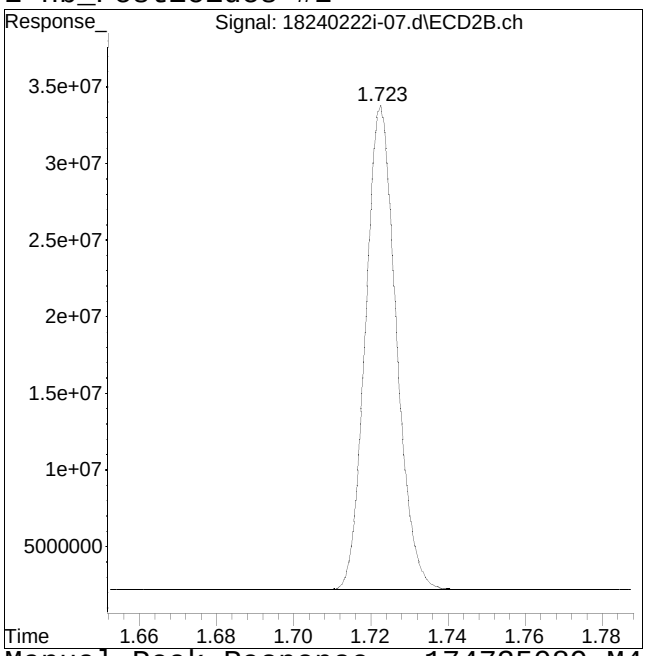
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 174862765

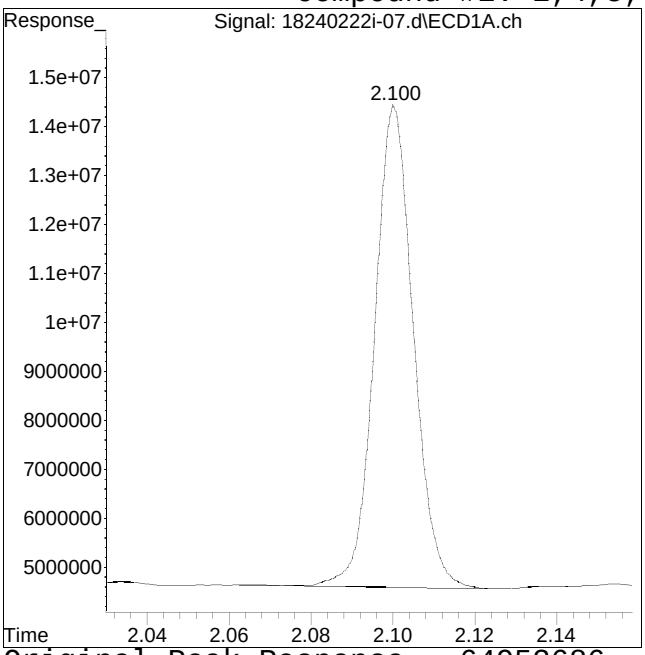


Manual Peak Response = 174735089 M4
M4 = Poor automated baseline construction.

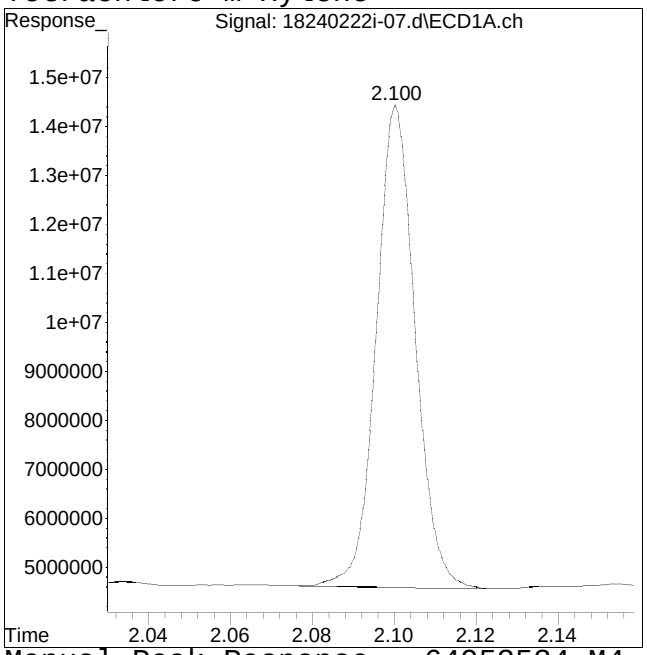
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 64953686



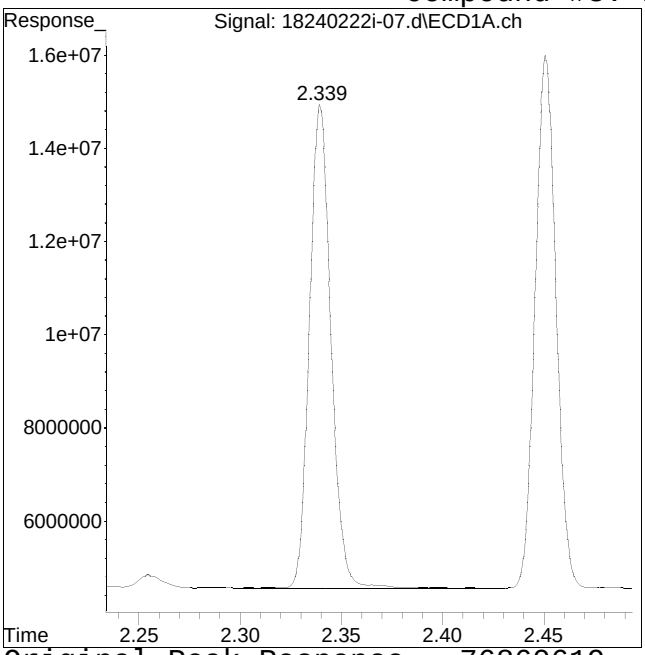
Manual Peak Response = 64953534 M4

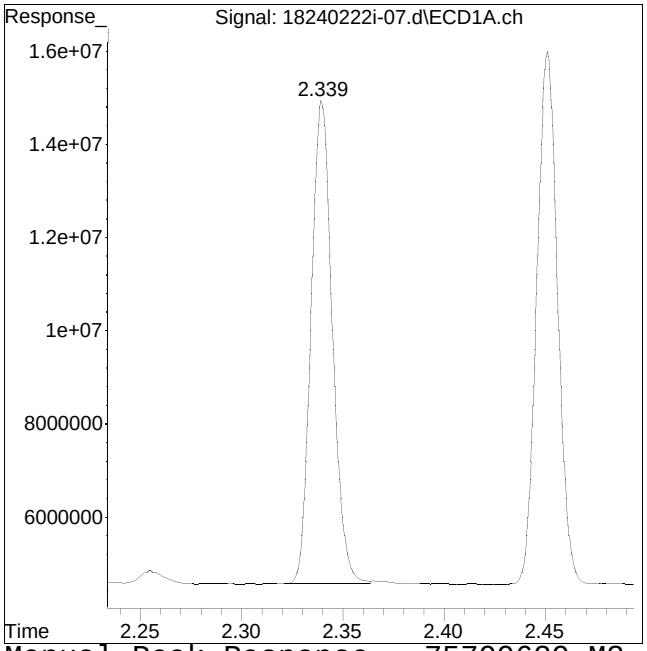
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #3: Hexachlorobenzene



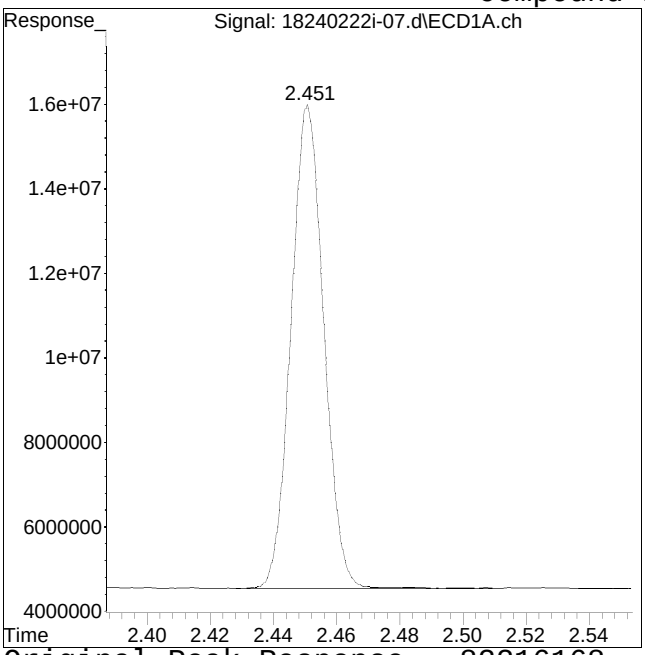


Original Peak Response = 76860619 Manual Peak Response = 75799629 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

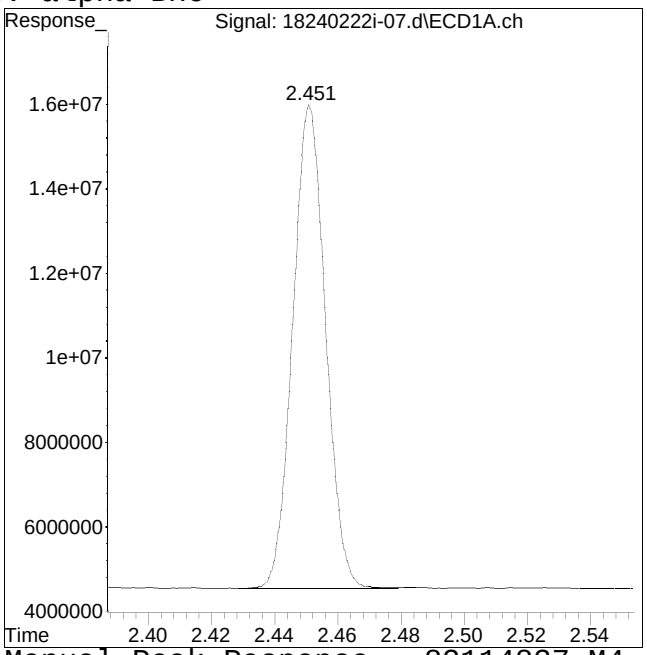
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #4: alpha-BHC



Original Peak Response = 82216168



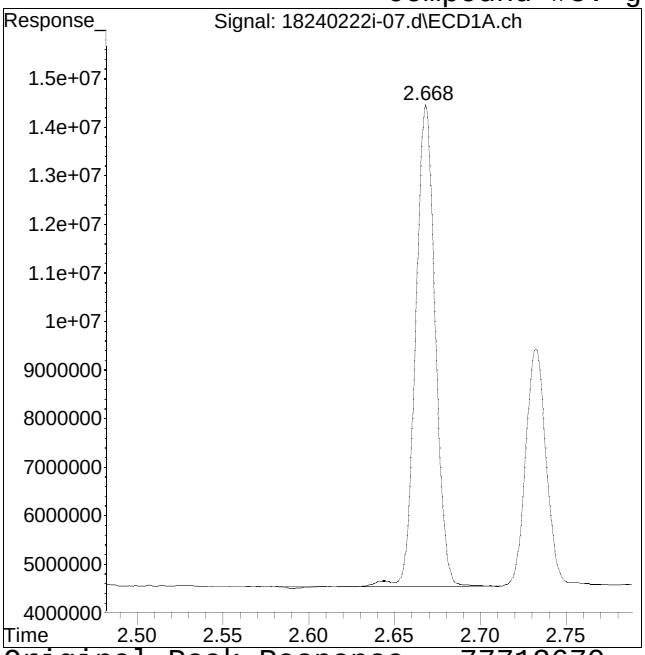
Manual Peak Response = 82114837 M4

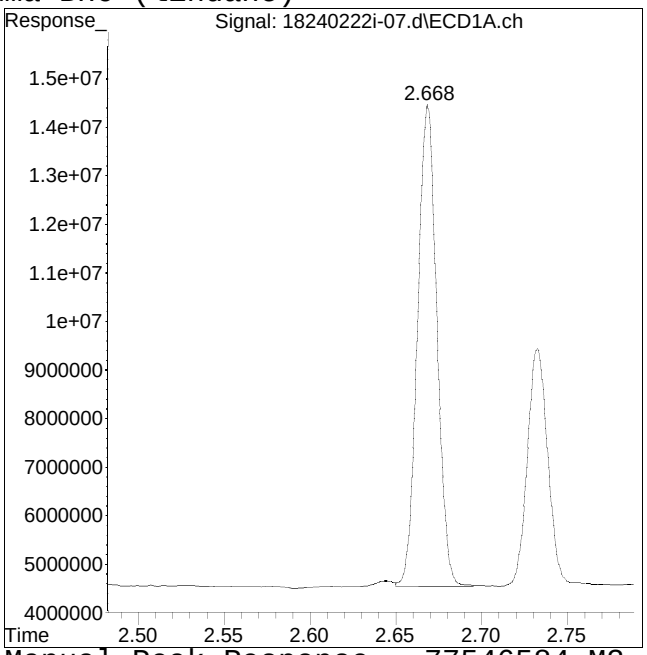
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #5: gamma-BHC (lindane)



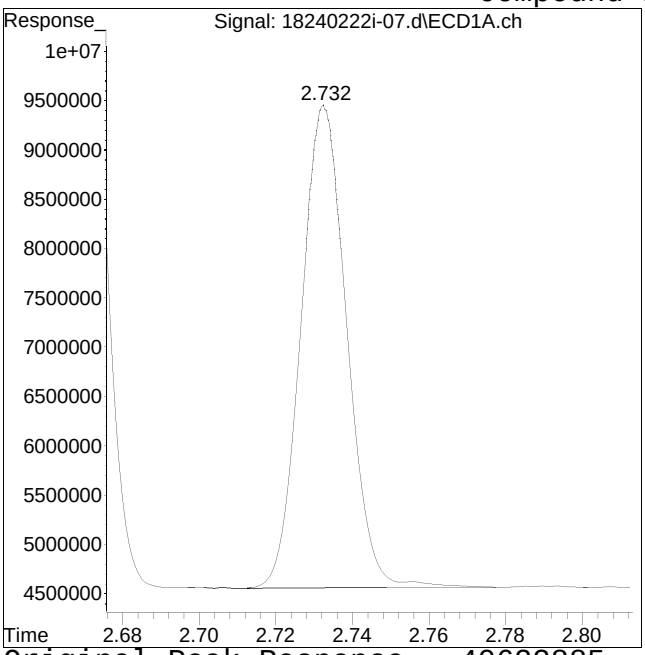


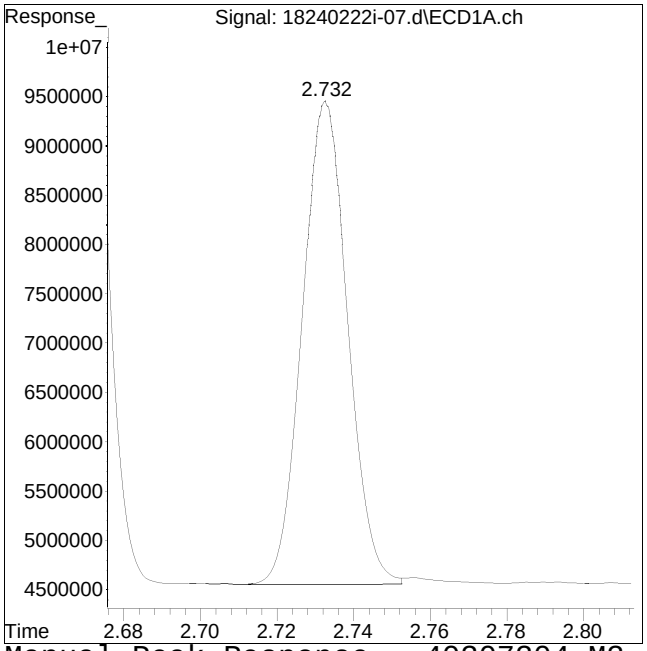
Original Peak Response = 77712670 Manual Peak Response = 77546584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #6: beta-BHC



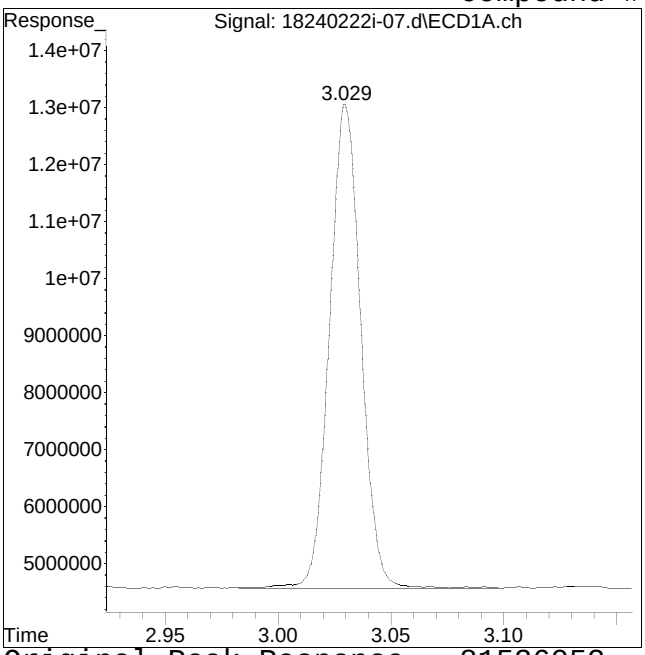


Original Peak Response = 40622885 Manual Peak Response = 40307304 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

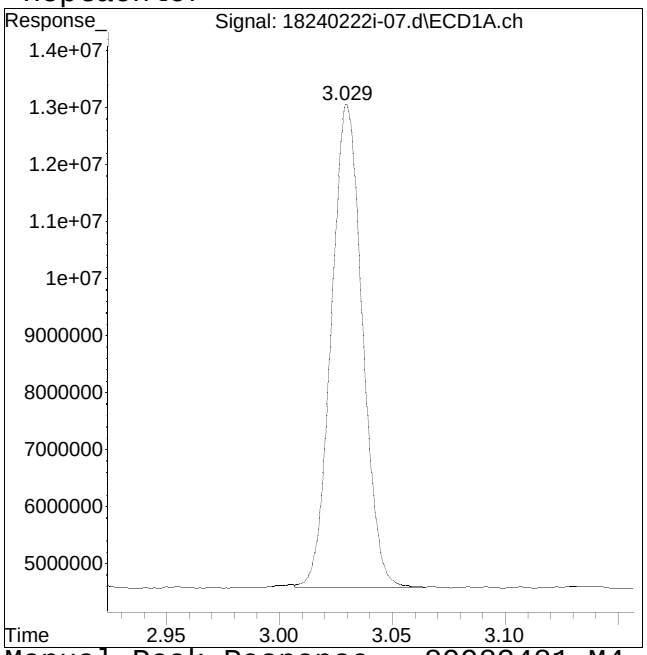
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #8: Heptachlor



Original Peak Response = 81536052

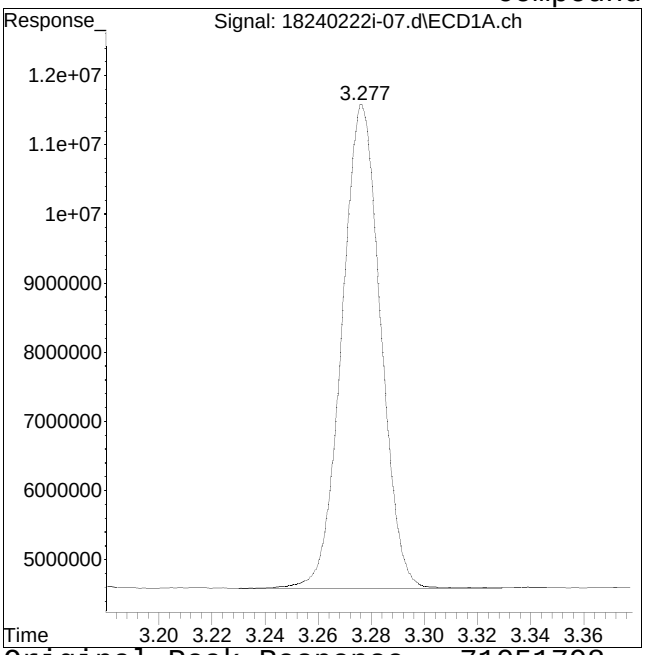


Manual Peak Response = 80983481 M4
M4 = Poor automated baseline construction.

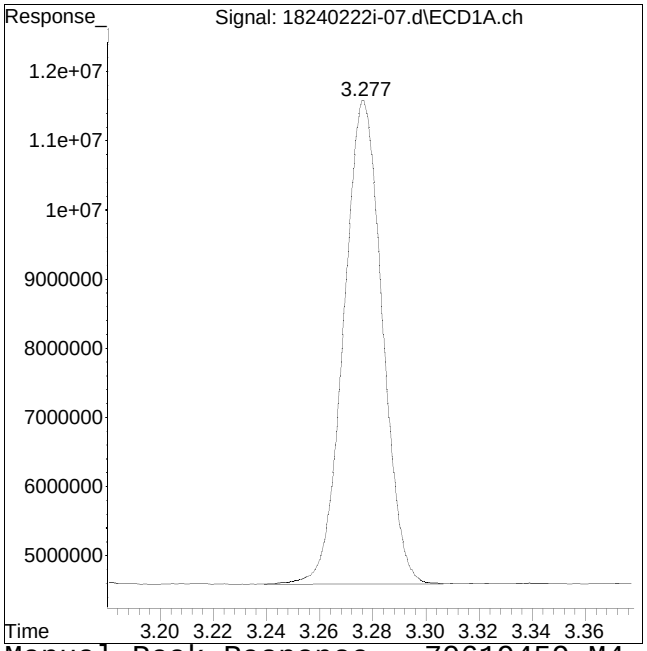
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #9: Aldrin



Original Peak Response = 71051798



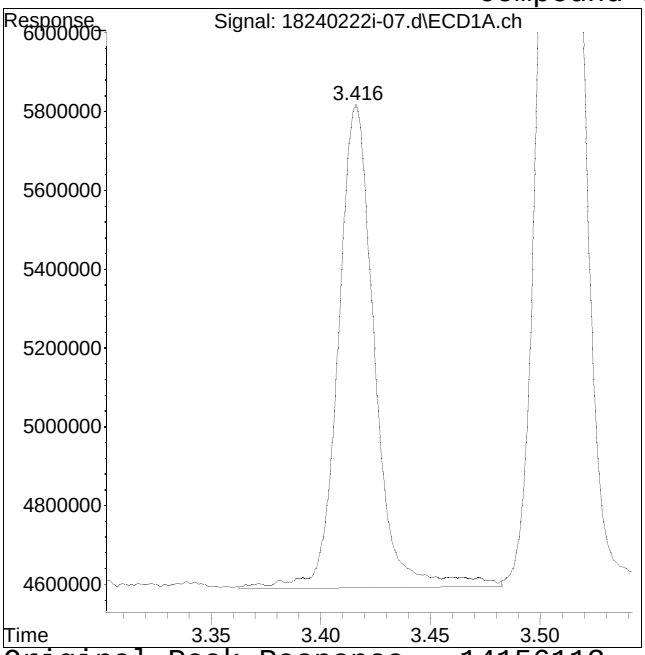
Manual Peak Response = 70619459 M4

M4 = Poor automated baseline construction.

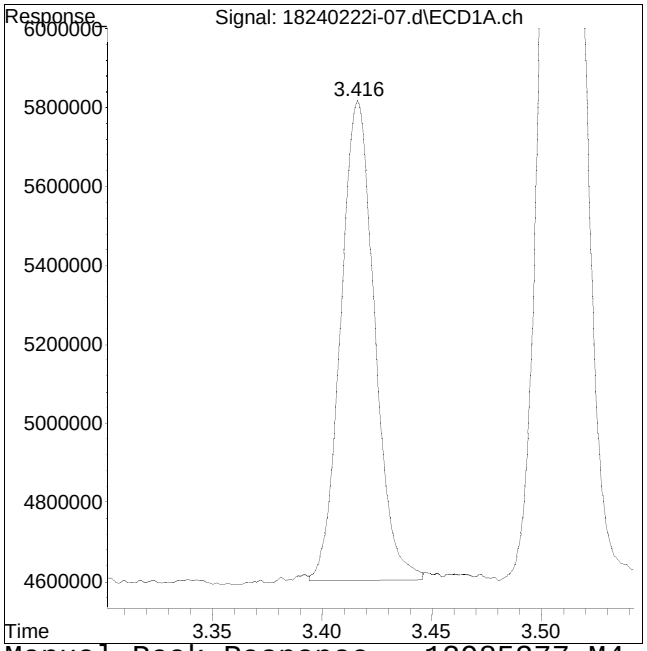
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #10: Alachlor



Original Peak Response = 14156113



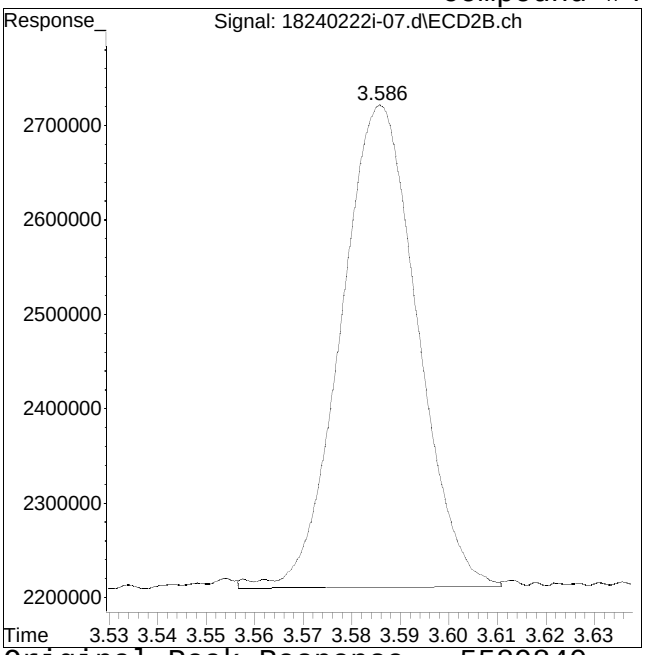
Manual Peak Response = 12985377 M4

M4 = Poor automated baseline construction.

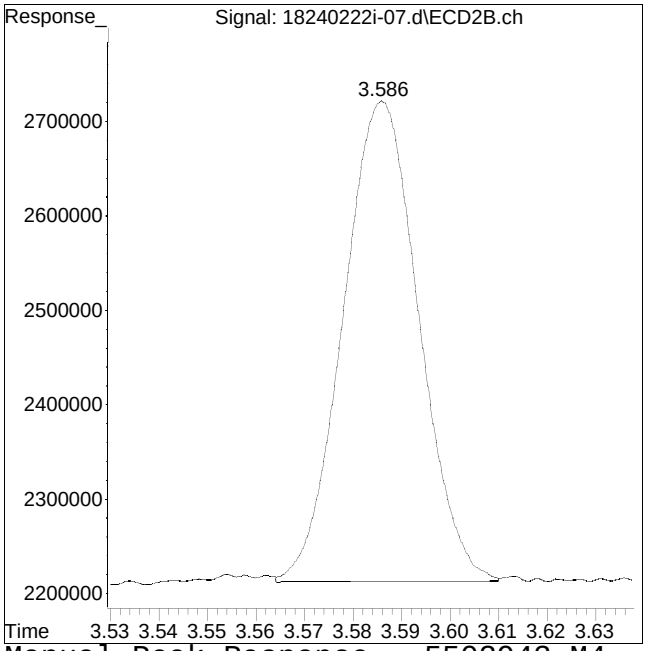
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #48: Alachlor #2



Original Peak Response = 5589840



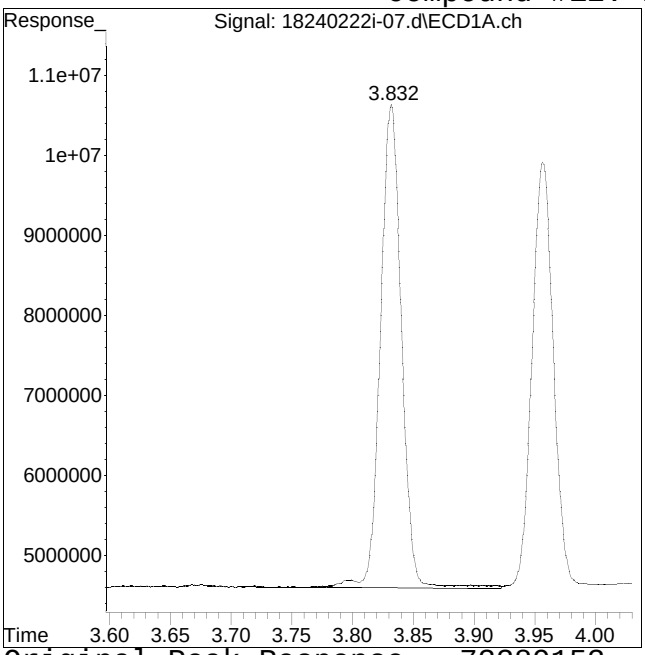
Manual Peak Response = 5503943 M4

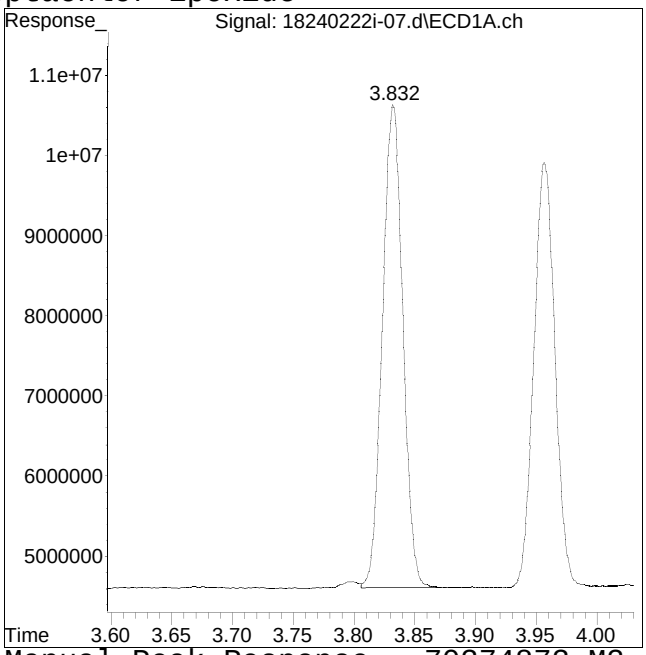
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #12: Heptachlor Epoxide



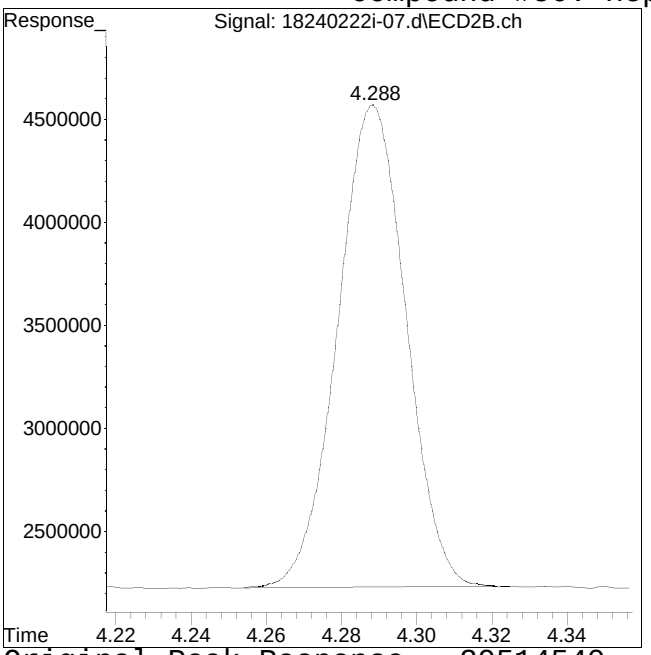


Original Peak Response = 73389153 Manual Peak Response = 70374873 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

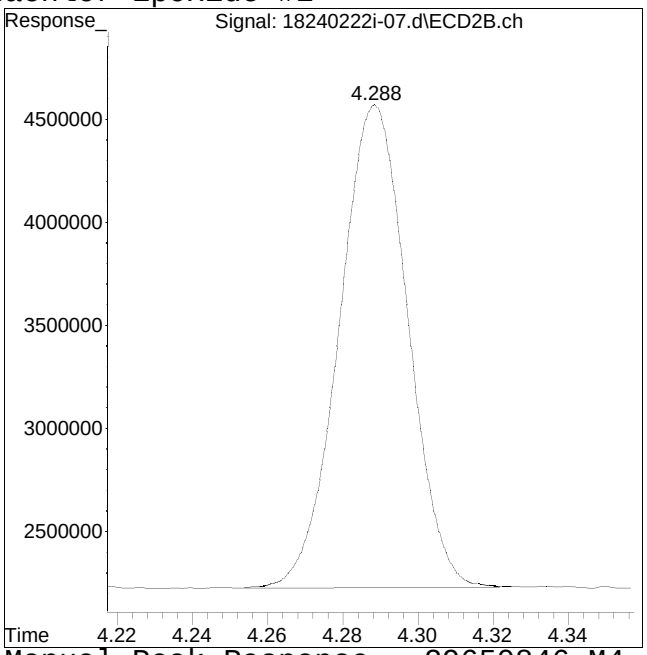
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 29514540



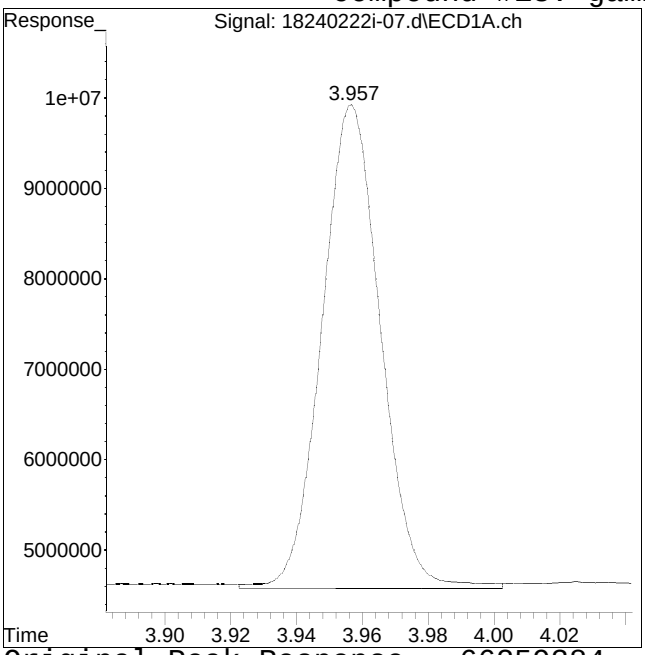
Manual Peak Response = 29650846 M4

M4 = Poor automated baseline construction.

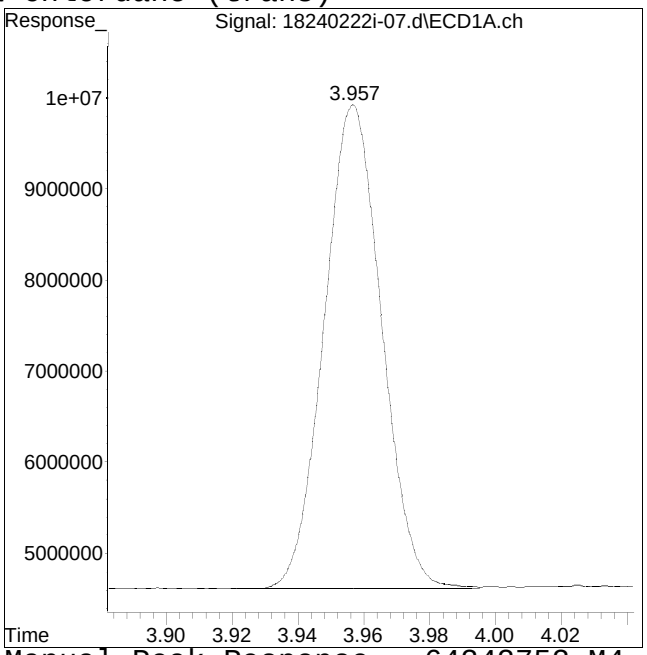
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 66259384



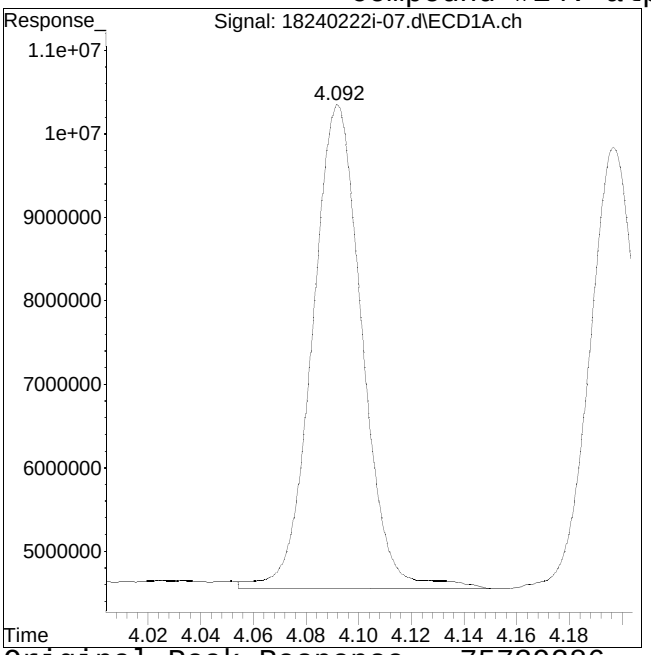
Manual Peak Response = 64242752 M4

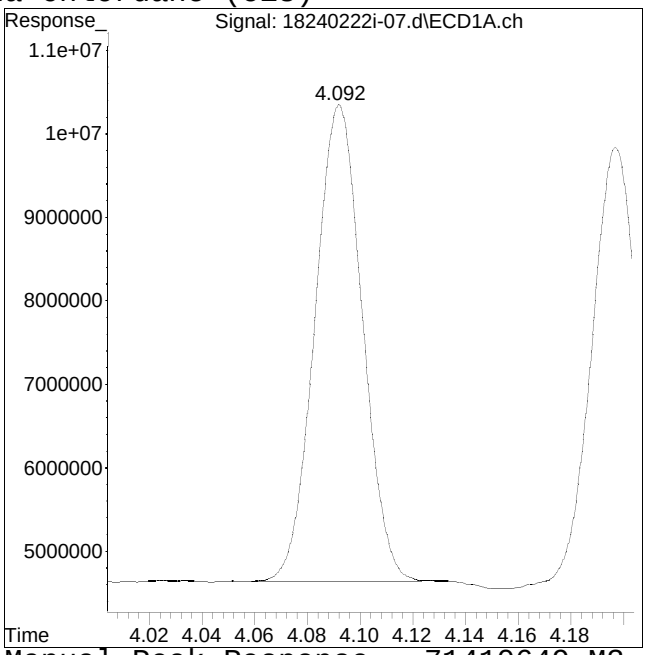
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #14: alpha-Chlordane (cis)



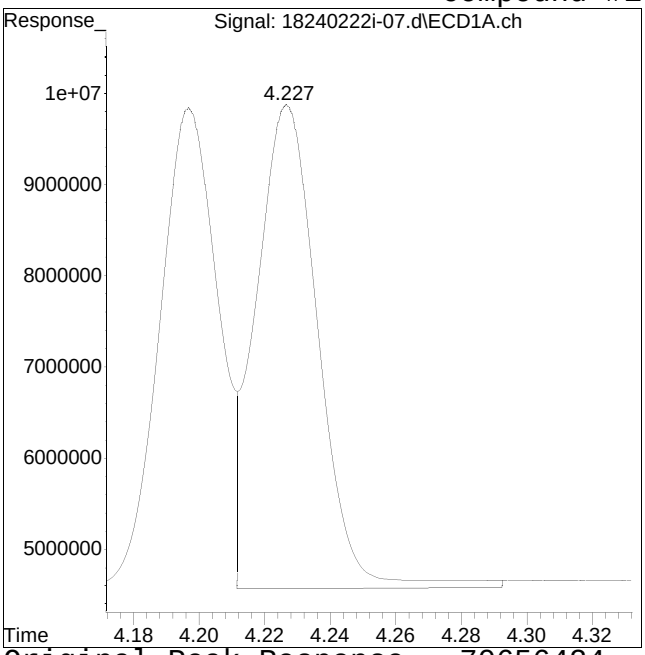


Original Peak Response = 75739286 Manual Peak Response = 71410649 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

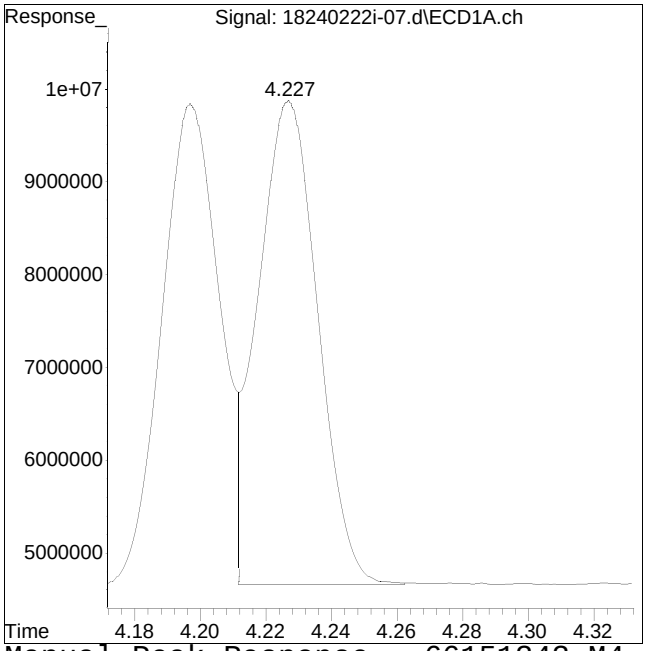
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #16: Endosulfan I



Original Peak Response = 70656424



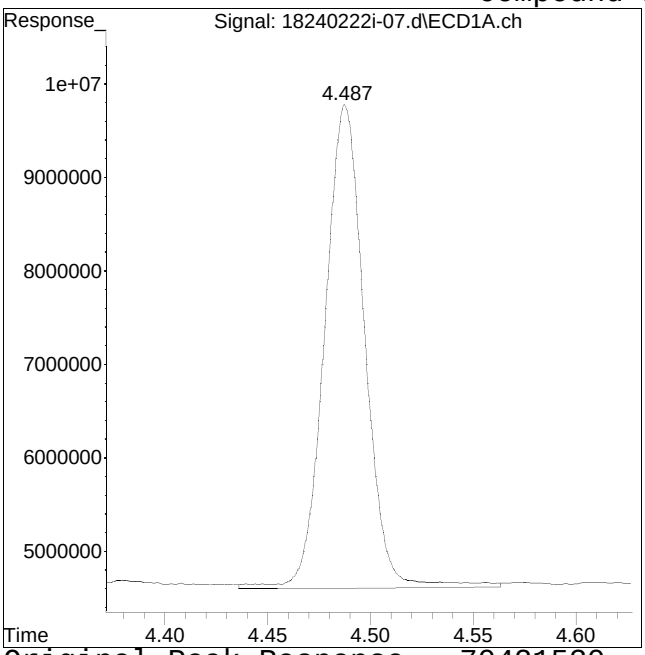
Manual Peak Response = 66151343 M4

M4 = Poor automated baseline construction.

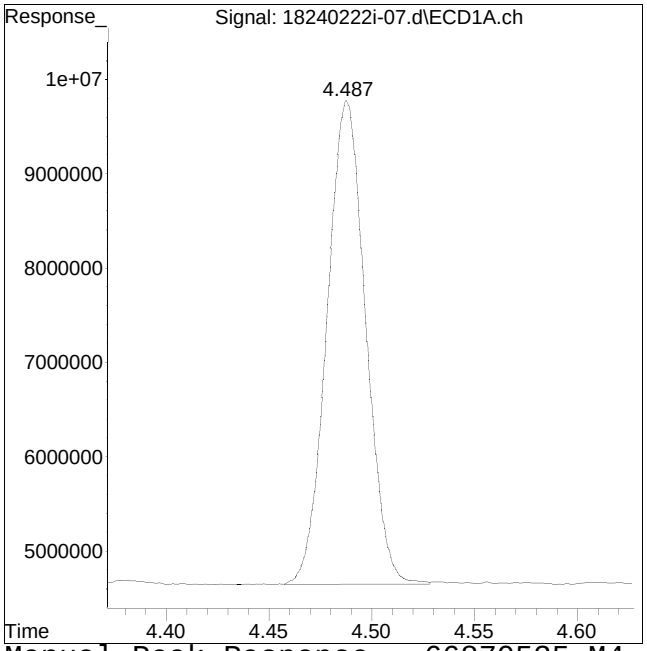
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #17: Dieldrin



Original Peak Response = 70421530

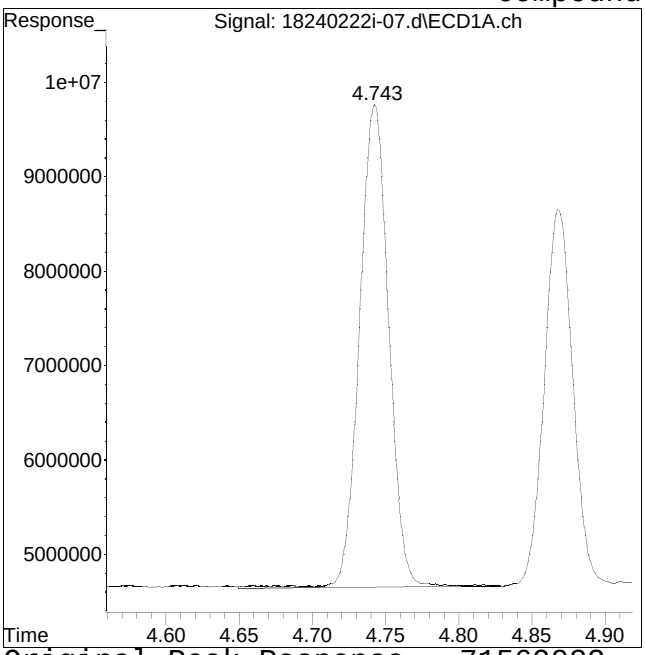


Manual Peak Response = 66870535 M4
M4 = Poor automated baseline construction.

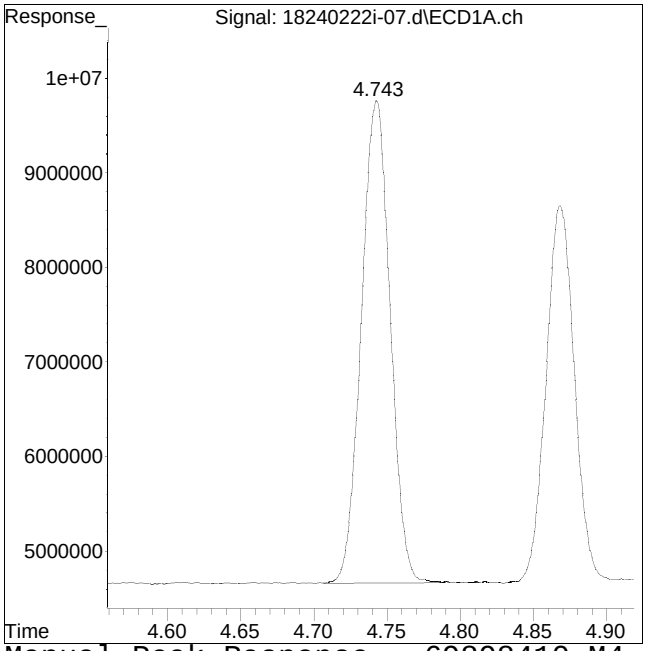
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #18: Endrin



Original Peak Response = 71569022



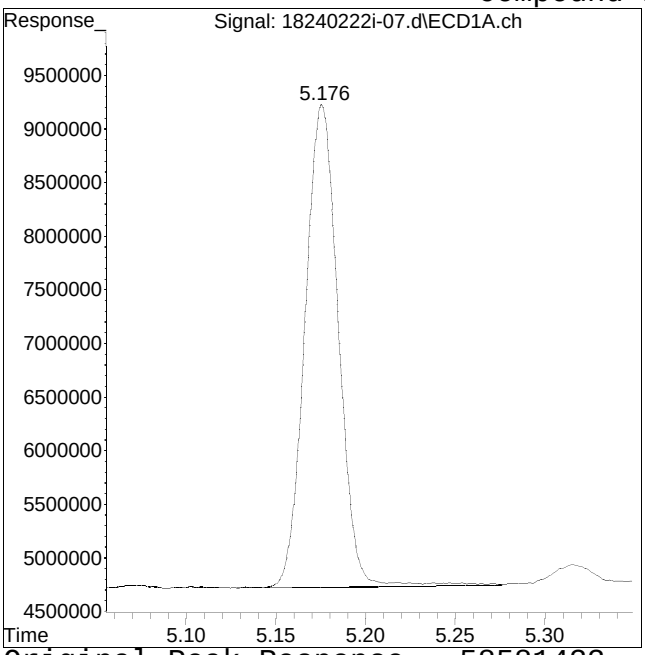
Manual Peak Response = 69898410 M4

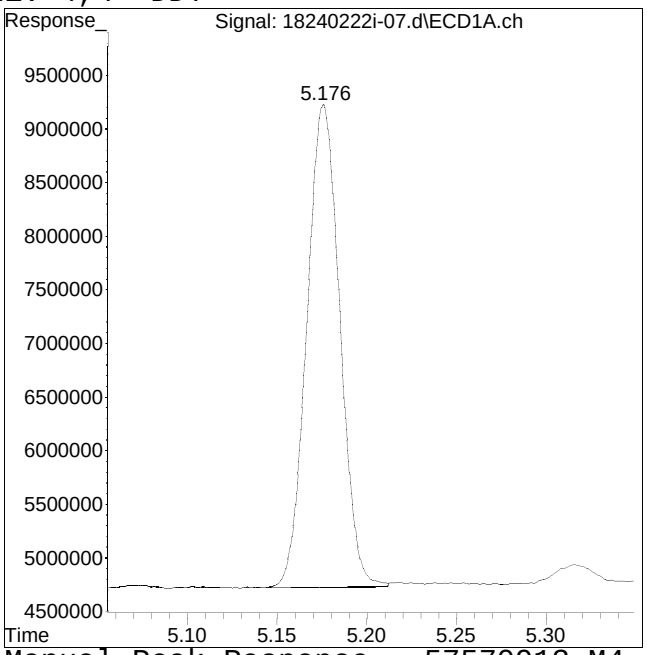
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #21: 4,4'-DDT



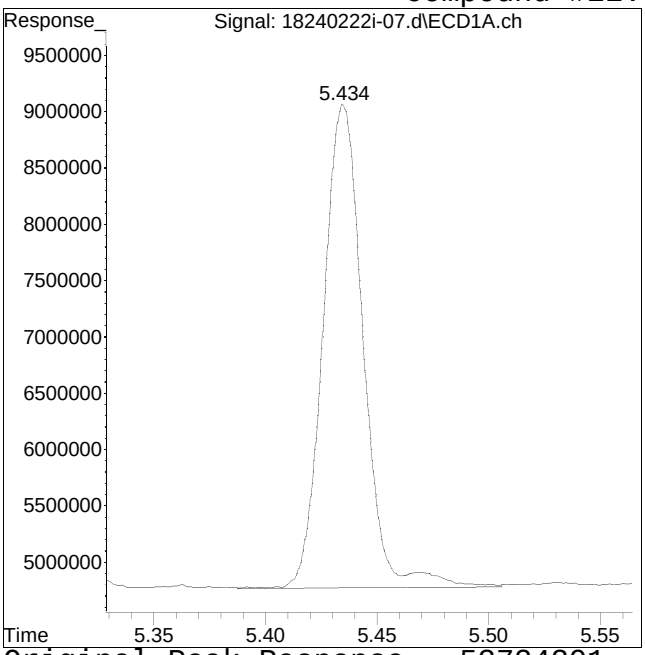


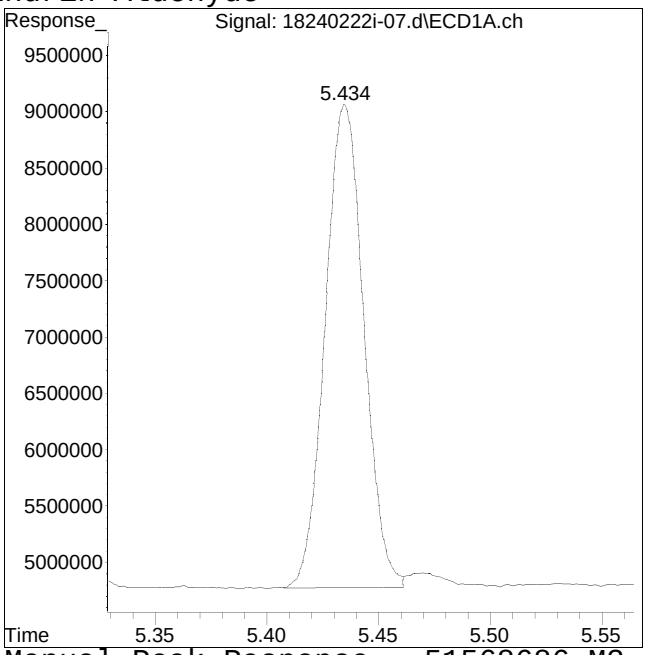
Original Peak Response = 58581433 Manual Peak Response = 57570913 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #22: Endrin Aldehyde



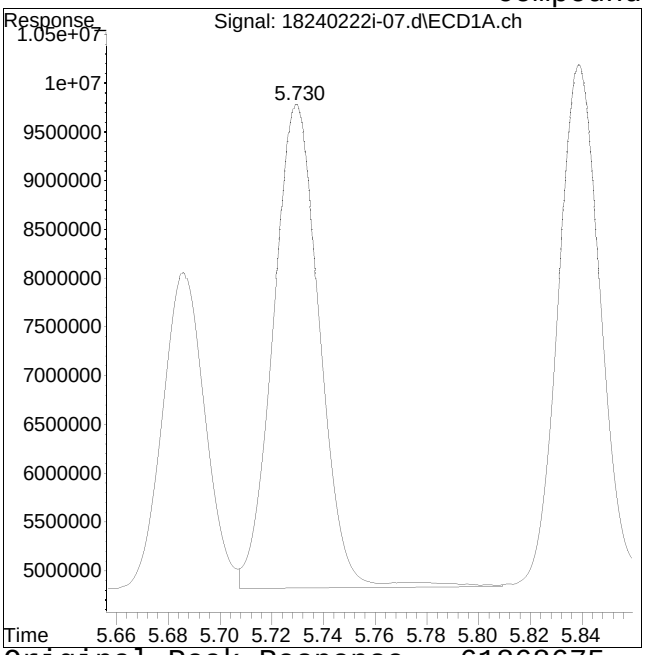


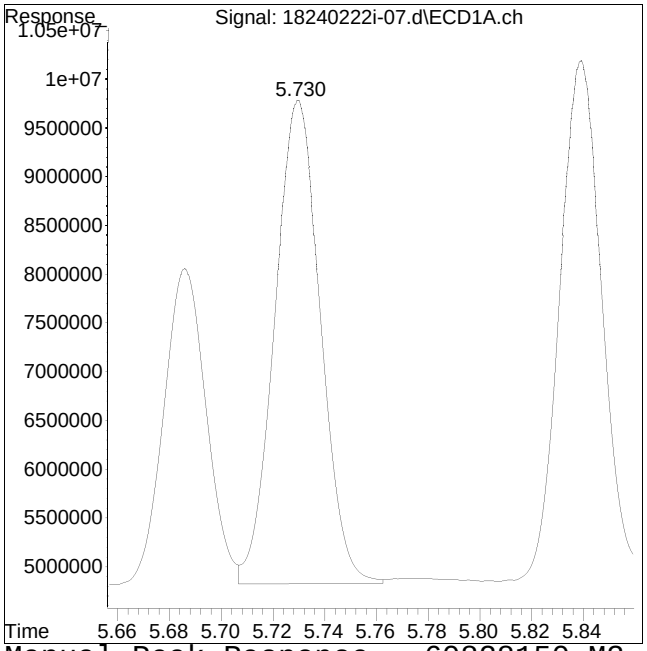
Original Peak Response = 53724291 Manual Peak Response = 51568686 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #24: Mirex



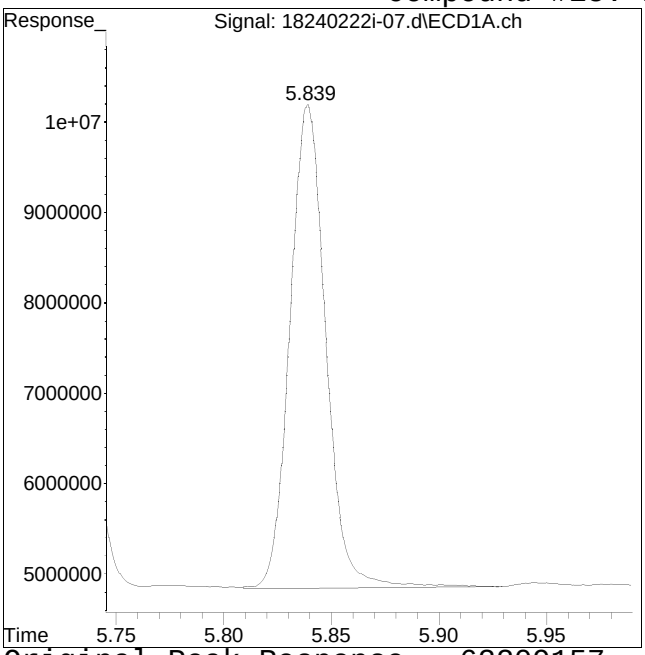


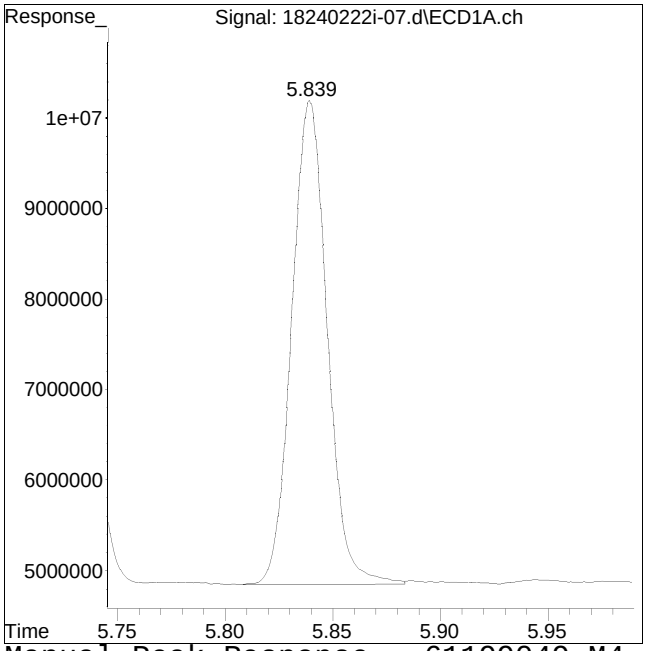
Original Peak Response = 61868675 Manual Peak Response = 60828150 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #25: Endosulfan Sulfate



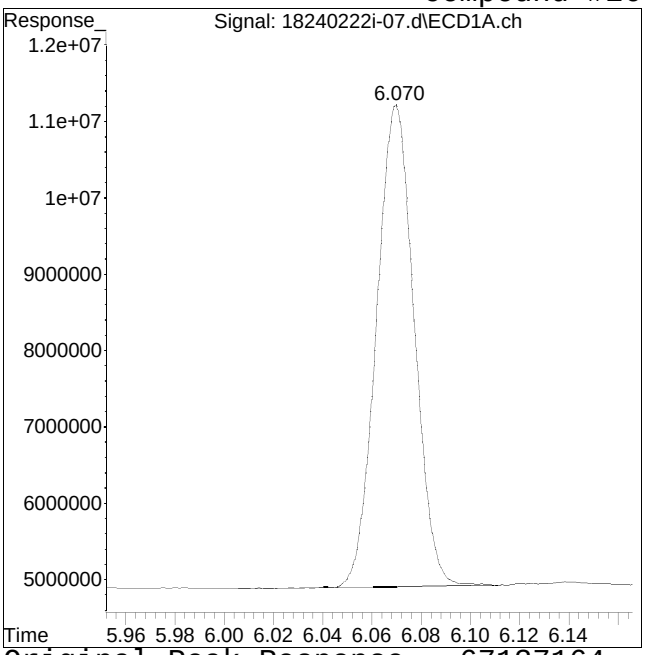


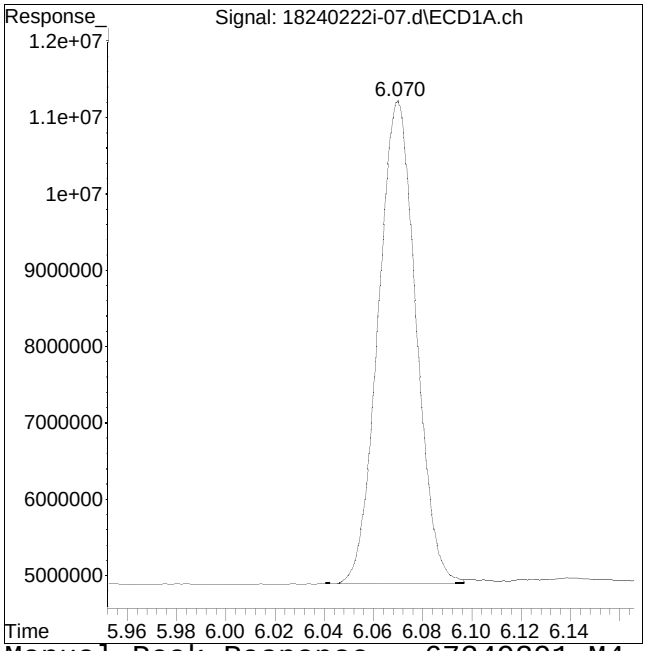
Original Peak Response = 62209157 Manual Peak Response = 61199049 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #26: Endrin Ketone



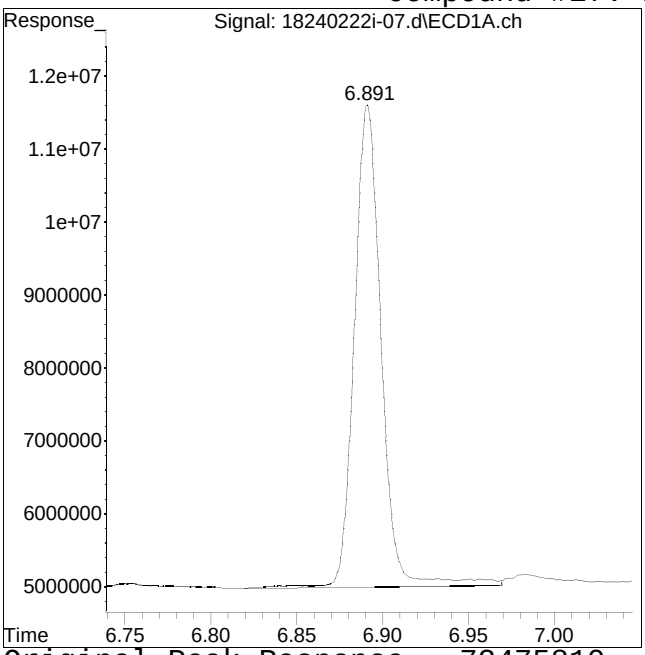


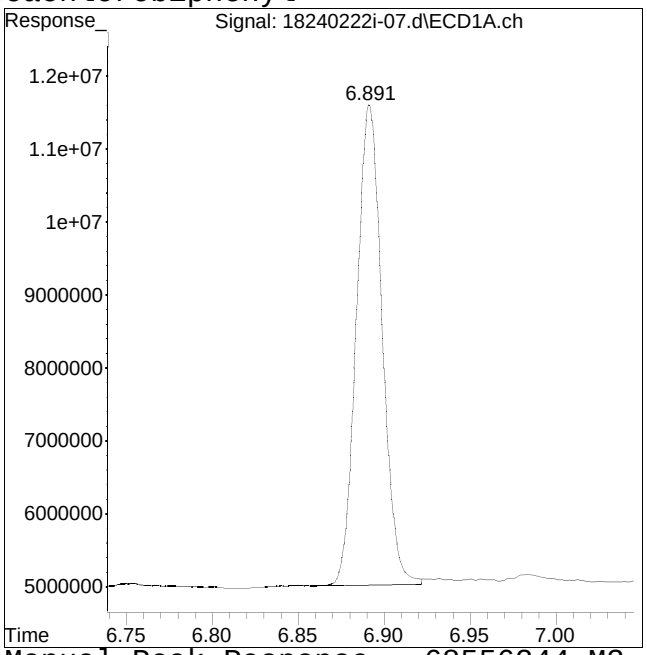
Original Peak Response = 67137164 Manual Peak Response = 67249391 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #27: Decachlorobiphenyl



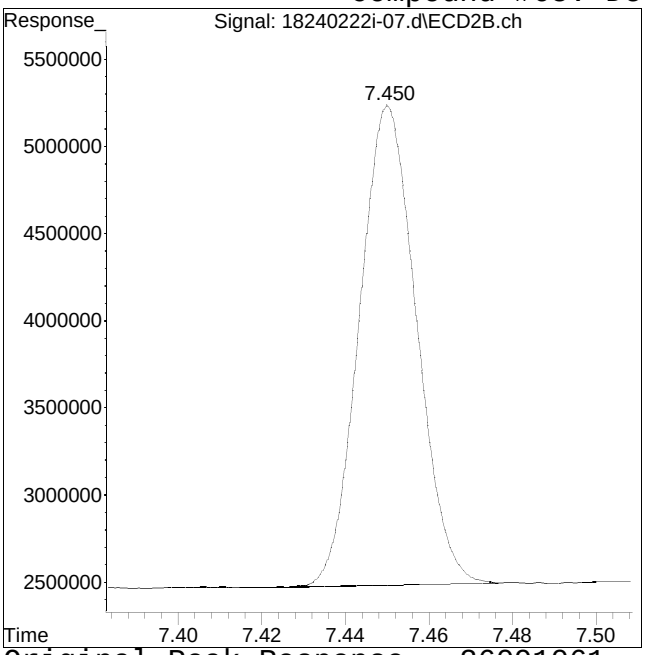


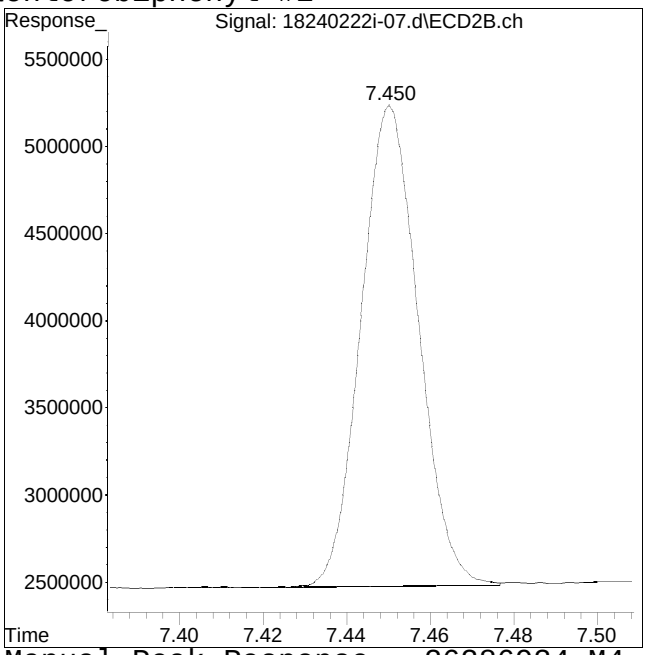
Original Peak Response = 72475810 Manual Peak Response = 68556244 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-07.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 1:54 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 2/27/2024 2:37 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 26091061 Manual Peak Response = 26286934 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:06 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:36:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:31:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	376.1E6	164.1E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	147.3E6	65469067	11.031	11.127M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.06%#	22.25%#
27) s	Decachlorobi	6.890	7.450	154.1E6	59162940	12.423M3	12.476
	Spiked Amount 50.000	Range 30 - 150		Recovery =		24.85%#	24.95%#
	Target Compounds						
3)	Hexachlorobe	2.338	2.593	166.4E6	71474564	11.455M3	11.480
4)	alpha-BHC	2.450	2.696	193.2E6	84144705	10.006M3	9.838
5)	gamma-BHC (l	2.667	2.982	179.4E6	79066046	10.245M3	10.137
6)	beta-BHC	2.731	3.053	87853955	39276822	11.541M4	11.325
7)	delta-BHC	2.862	3.314	179.9E6	78981911	10.092M4	9.851
8)	Heptachlor	3.029	3.371	182.5E6	79660289	11.193M3	10.850
9)	Aldrin	3.275	3.681	162.7E6	70061225	10.574M4	10.203
10)	Alachlor	3.415	3.586	29892714	12668745	12.225M4	11.781M4
11)	Chlorpyrifos	3.508	3.934	89412497	40509902	12.898M4	12.457
12)	Heptachlor E	3.831	4.287	158.3E6	68371279	11.285M3	10.674M4
13)	gamma-Chlord	3.956	4.505	144.7E6	62013274	11.053M4	10.521
14)	alpha-Chlord	4.091	4.677	161.9E6	70652617	11.077M3	10.818
15)	4,4'-DDE	4.196	4.901	152.9E6	65643039	10.492	10.057M4
16)	Endosulfan I	4.225	4.737	149.9E6	65849863	11.289M4	10.849M4
17)	Dieldrin	4.486	5.057	154.4E6	65985390	10.791M4	10.325M4
18)	Endrin	4.741	5.376	160.3E6	63886430	10.969M4	9.945

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:06 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:36:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:31:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.867	5.520	124.0E6	53790693	10.497	10.153
20)	Endosulfan I	4.996	5.589	141.3E6	61333052	11.354	11.014
21)	4,4'-DDT	5.174	5.811	135.5E6	63201728	10.192M4	10.511
22)	Endrin Aldeh	5.433	5.902	114.9E6	49510310	10.977M3	10.660
23)	Methoxychlor	5.685	6.403	82739015	38837471	12.407M4	12.510
24)	Mirex	5.729	6.520	133.6E6	57117010	12.737	12.424M3
25)	Endosulfan S	5.838	6.140	138.5E6	58749974	11.313M3	11.092
26)	Endrin Keton	6.069	6.561	155.3E6	68692522	11.477M4	11.262M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

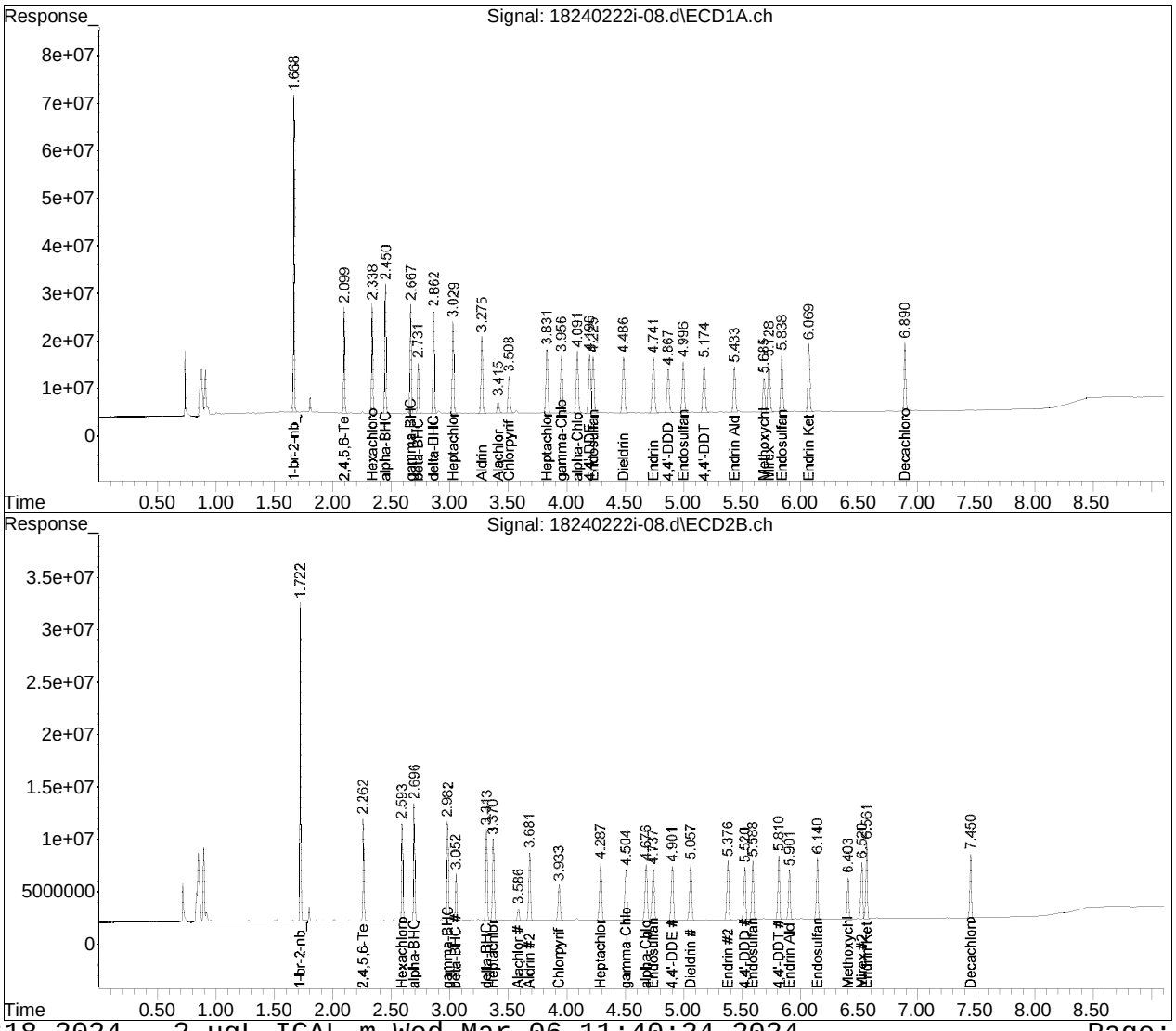
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:06 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:36:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:31:56 2024
Response via : Initial Calibration
Integrator: ChemStation

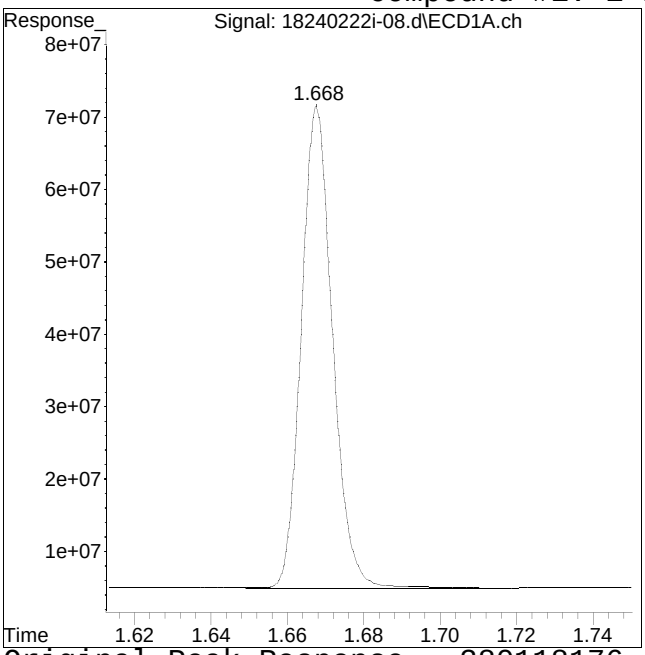
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

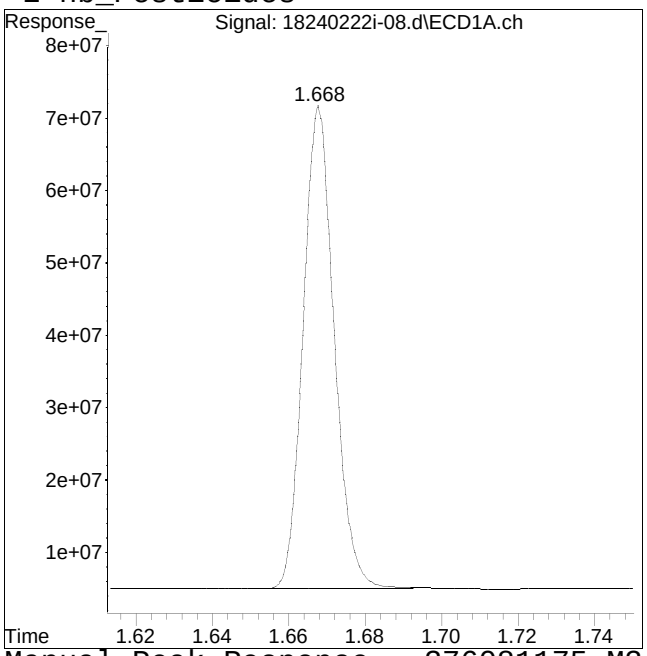


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #1: 1-br-2-nb_Pesticides



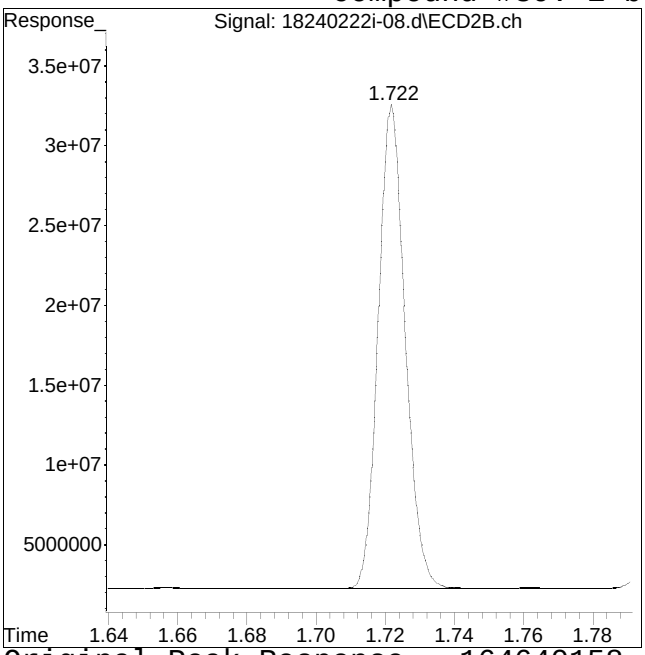


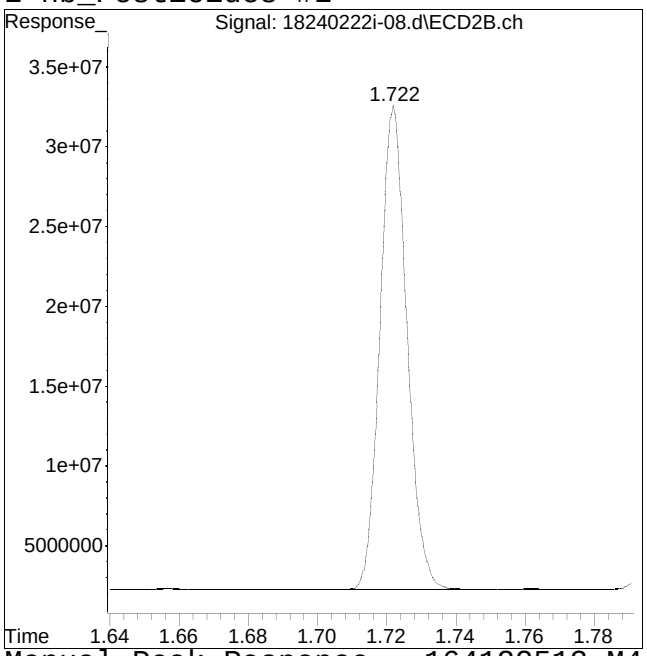
Original Peak Response = 380118176 Manual Peak Response = 376081175 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #39: 1-br-2-nb_Pesticides #2



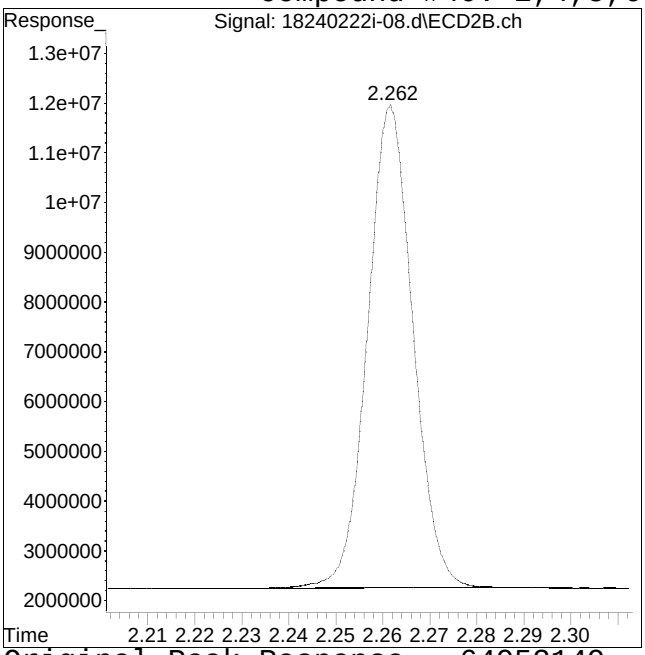


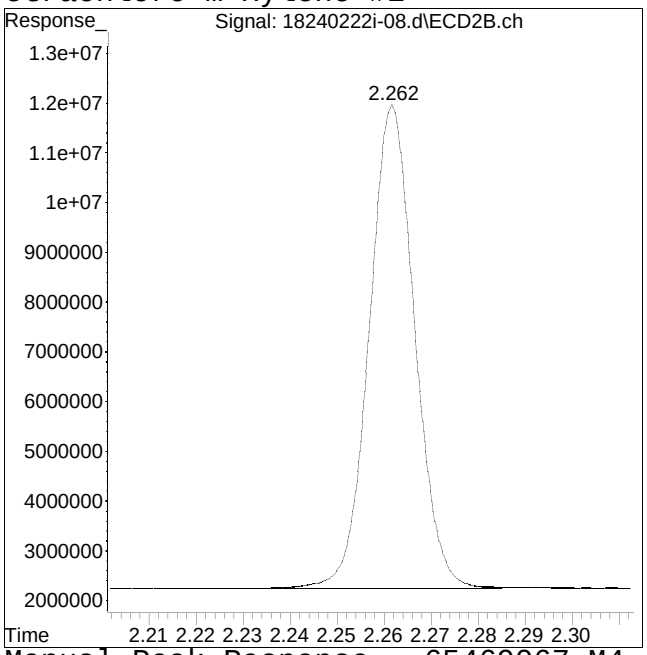
Original Peak Response = 164640158 Manual Peak Response = 164122512 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



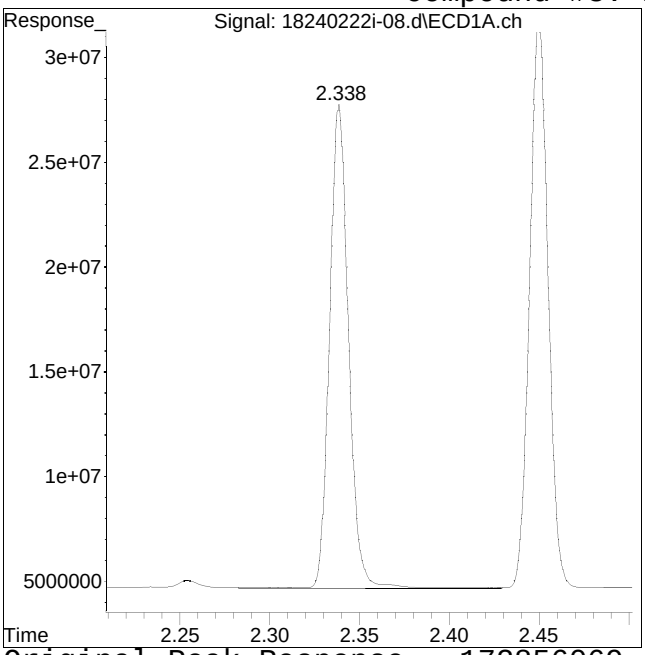


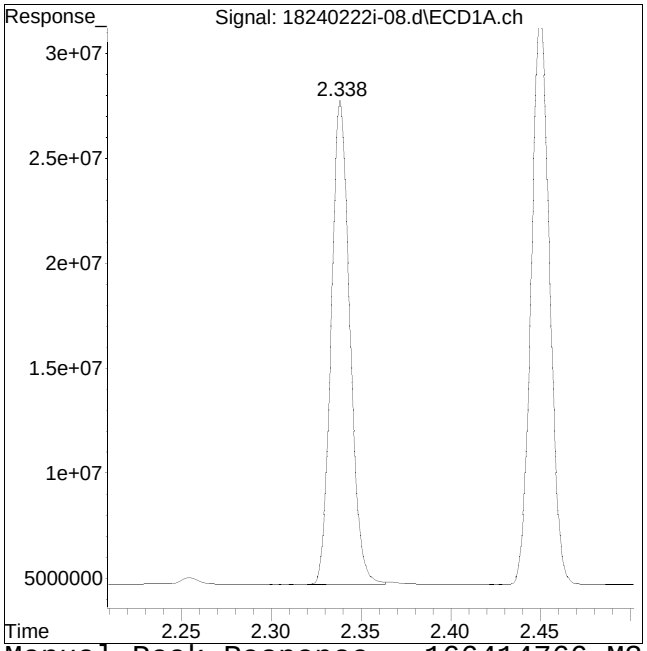
Original Peak Response = 64952149 Manual Peak Response = 65469067 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #3: Hexachlorobenzene



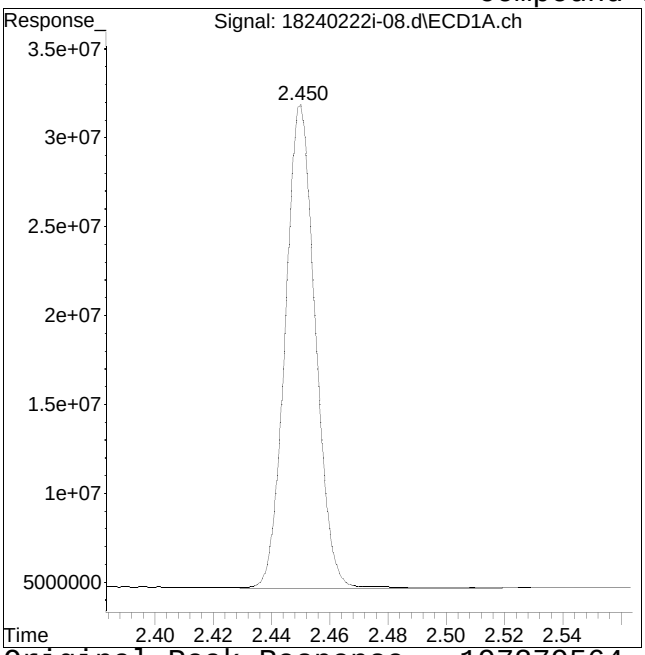


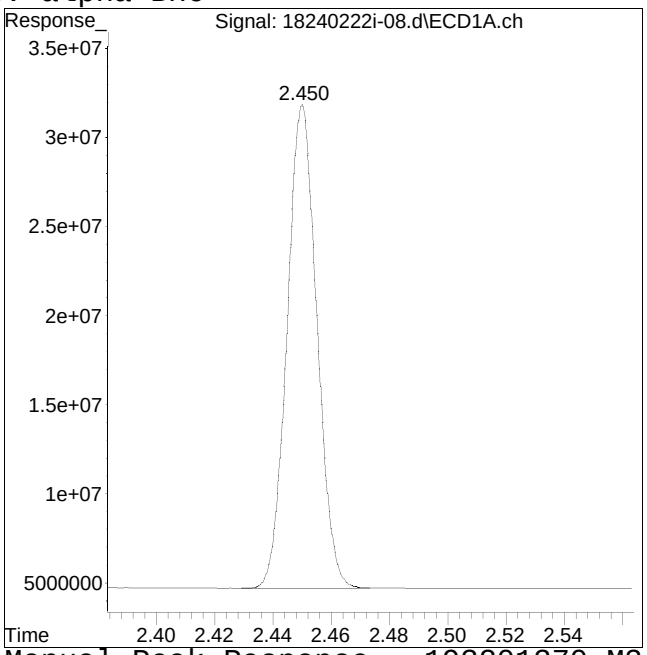
Original Peak Response = 172856069 Manual Peak Response = 166414766 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #4: alpha-BHC



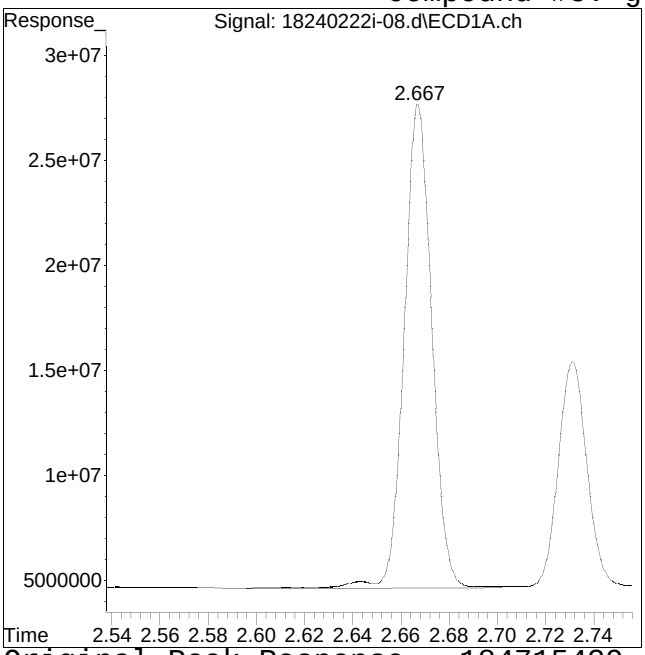


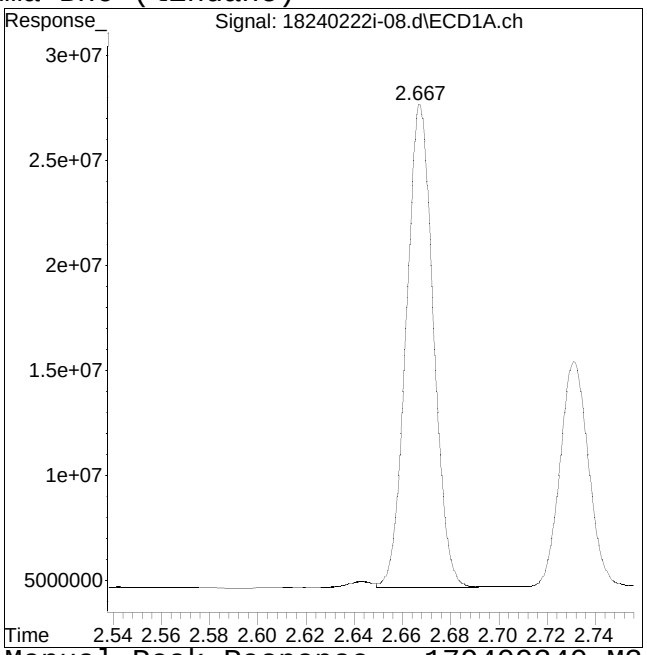
Original Peak Response = 197279564 Manual Peak Response = 193201370 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #5: gamma-BHC (lindane)





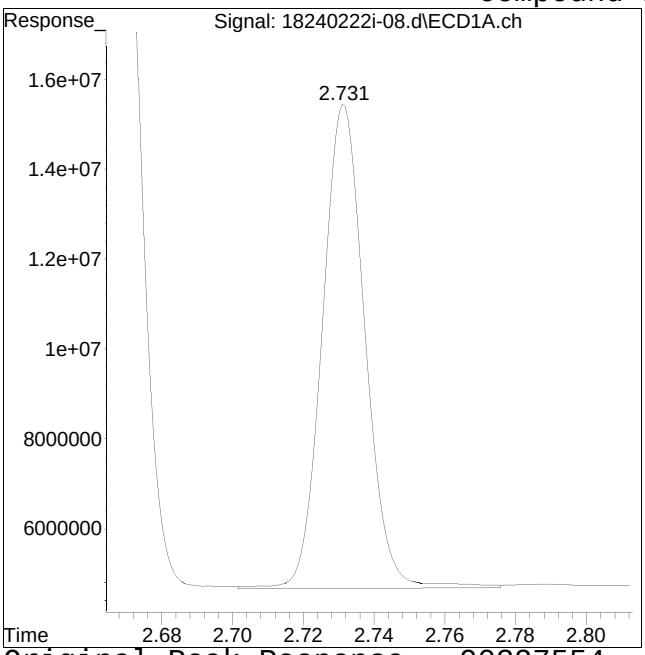
Original Peak Response = 184715429 Manual Peak Response = 179409340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

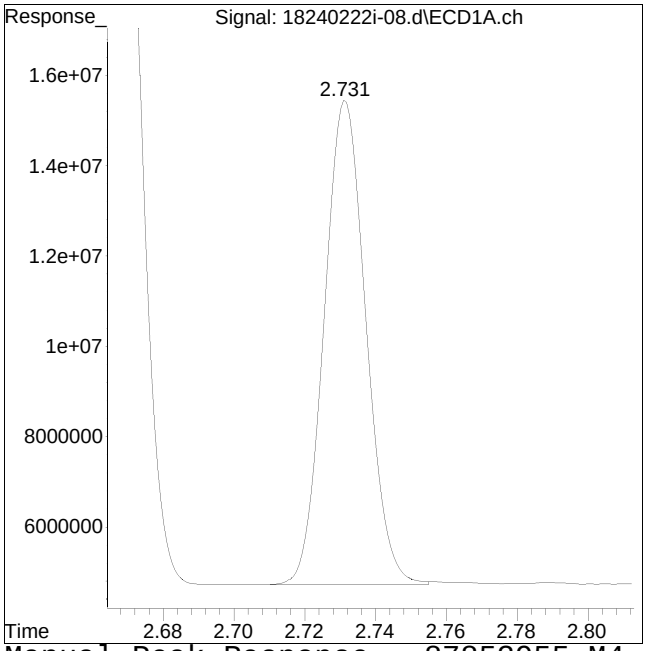
Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-08.d
Date Inj'd : 2/22/2024 2:06 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 2:32 pm

Compound #6: beta-BHC



Original Peak Response = 90327554



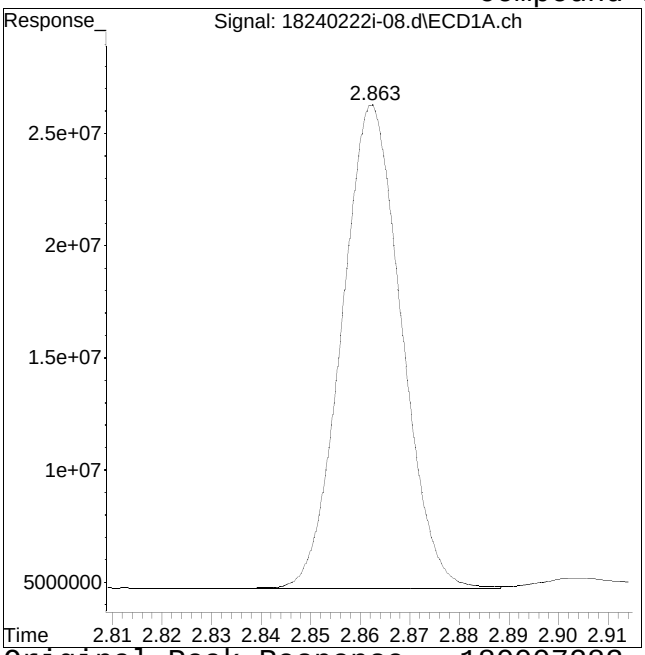
Manual Peak Response = 87853955 M4

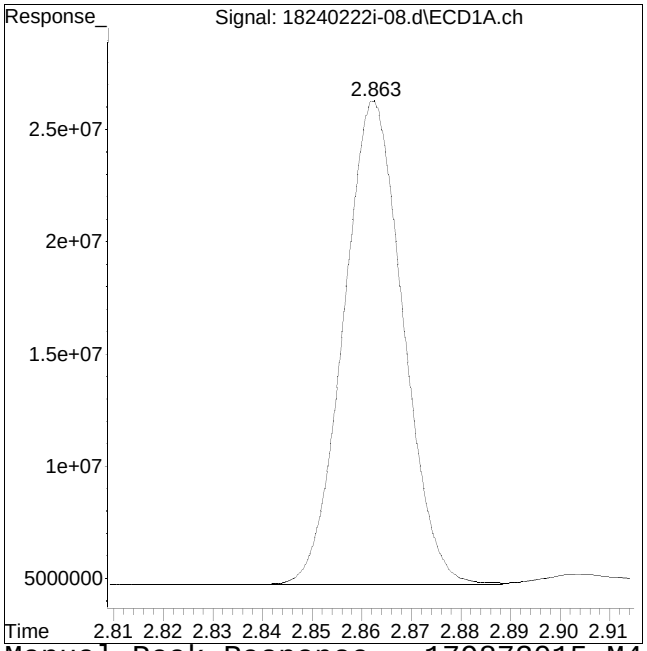
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #7: delta-BHC



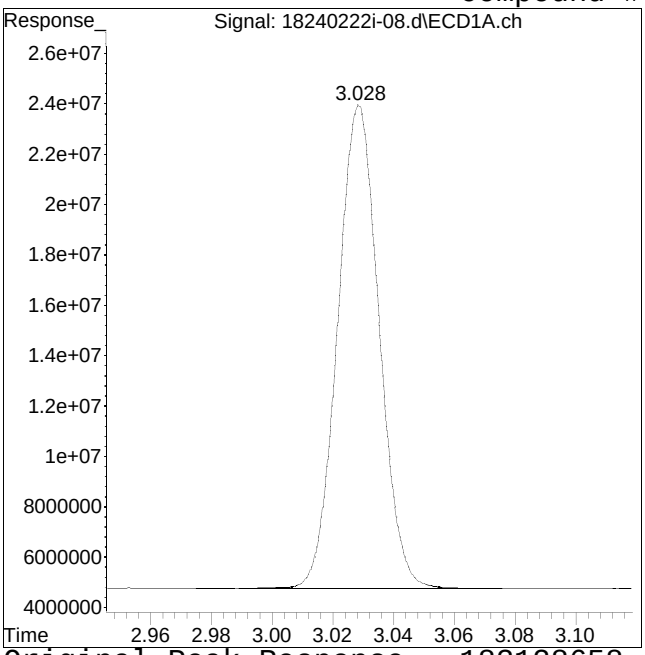


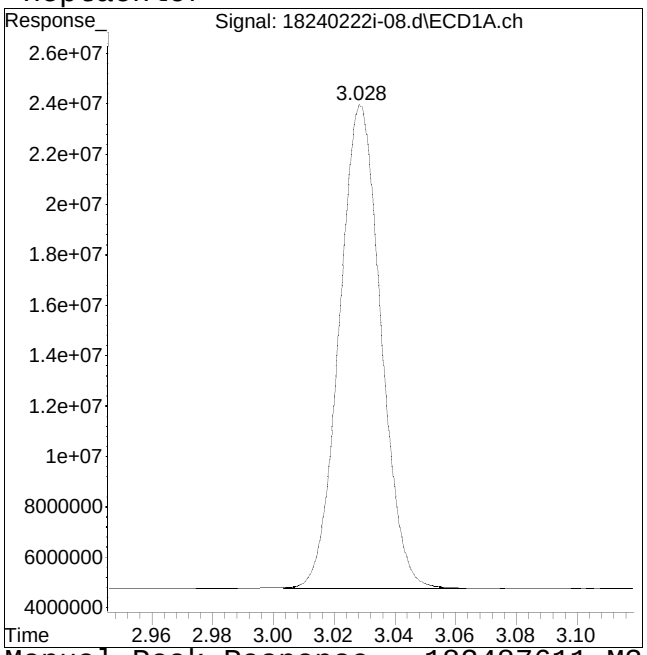
Original Peak Response = 180007283 Manual Peak Response = 179873015 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #8: Heptachlor



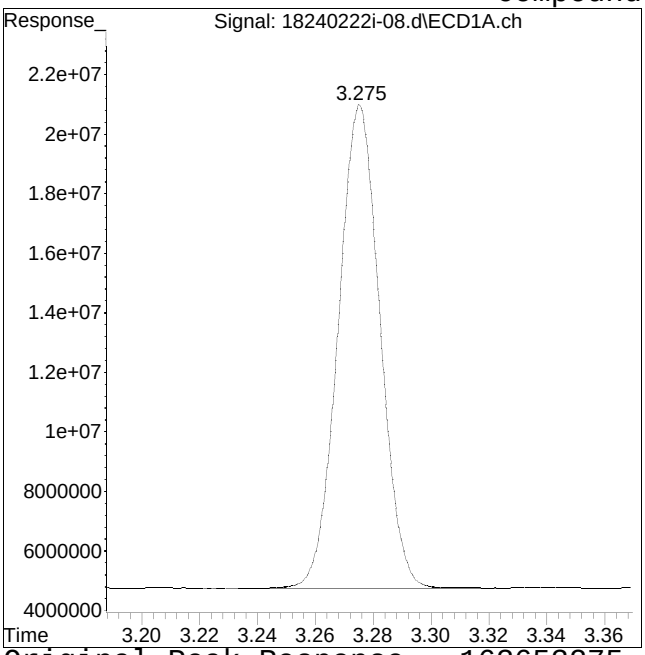


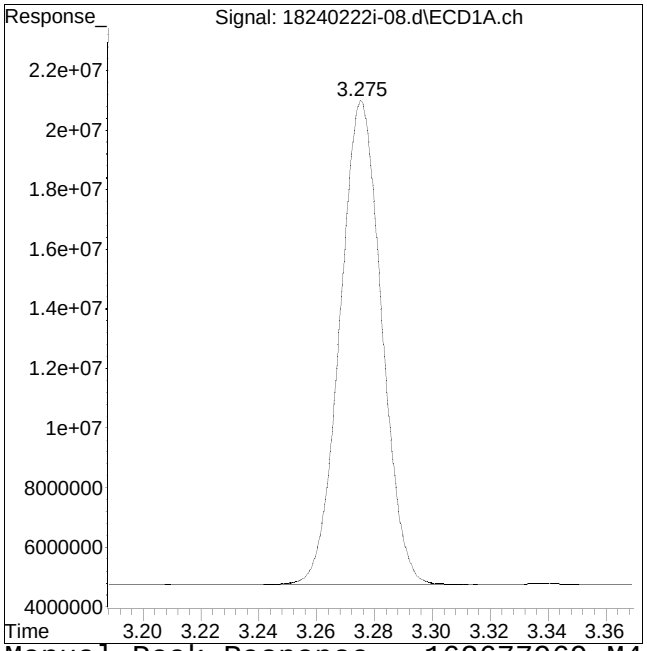
Original Peak Response = 183128658 Manual Peak Response = 182487611 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #9: Aldrin



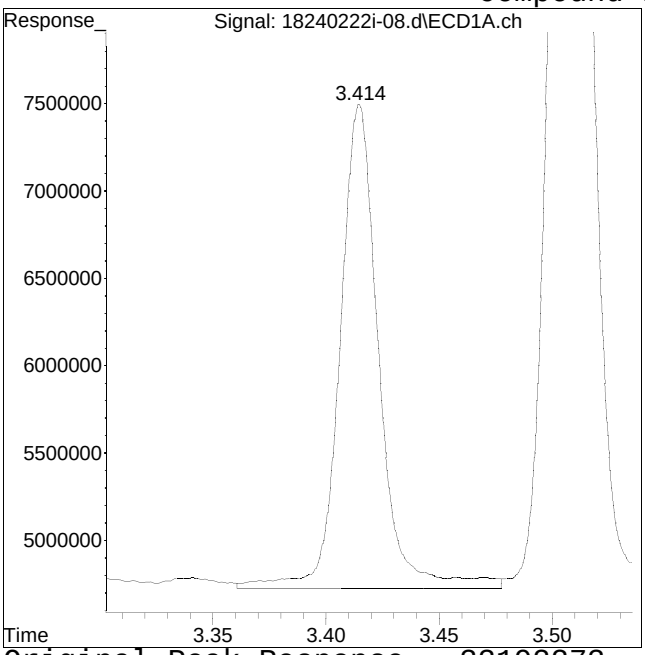


Original Peak Response = 163653275 Manual Peak Response = 162677969 M4
M4 = Poor automated baseline construction.

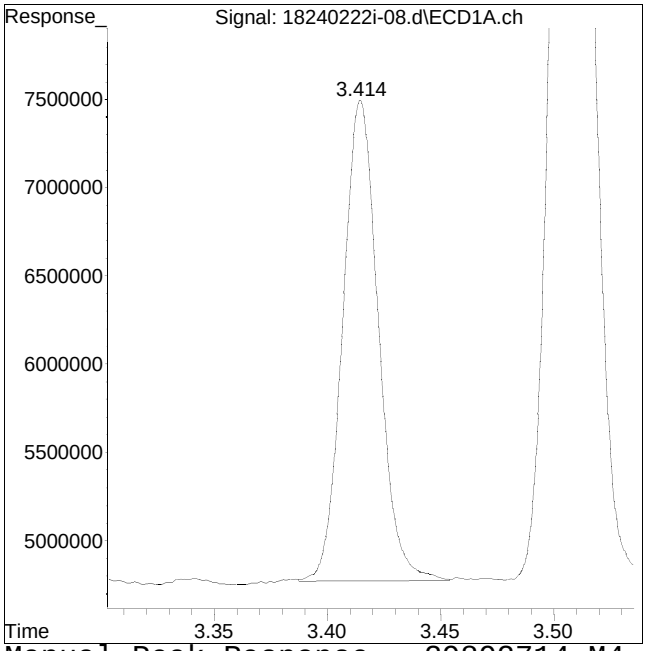
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #10: Alachlor



Original Peak Response = 33192273



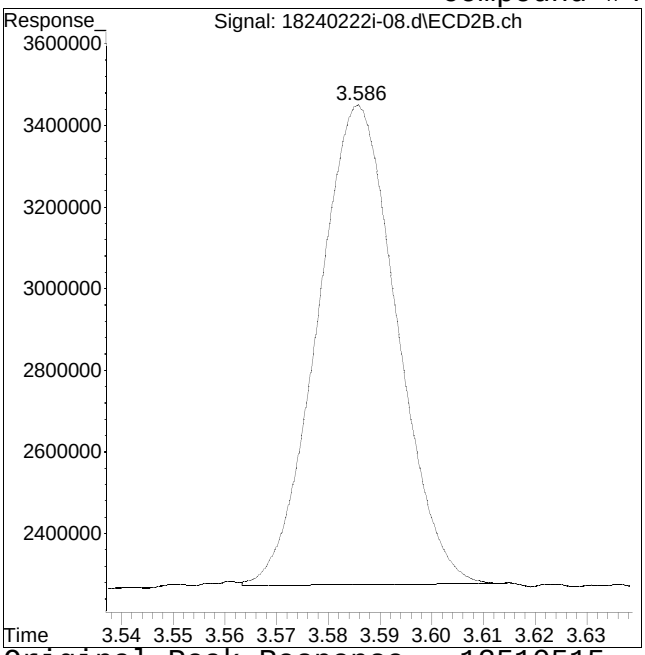
Manual Peak Response = 29892714 M4

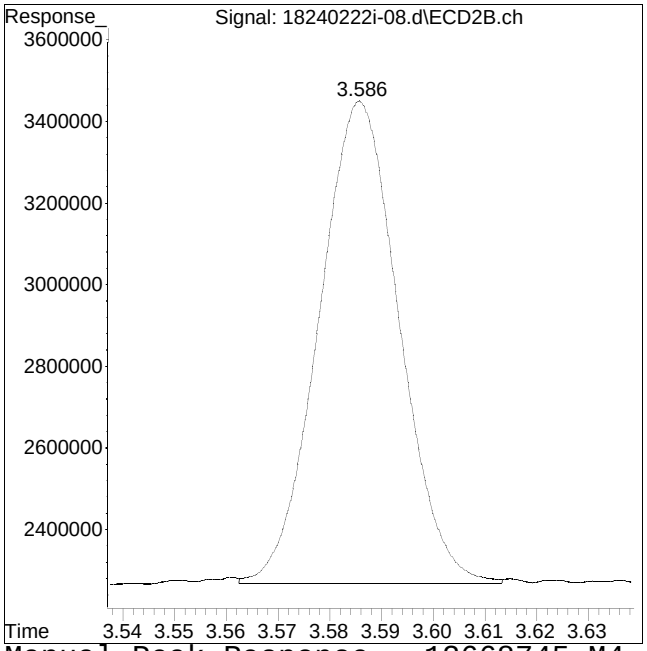
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #48: Alachlor #2



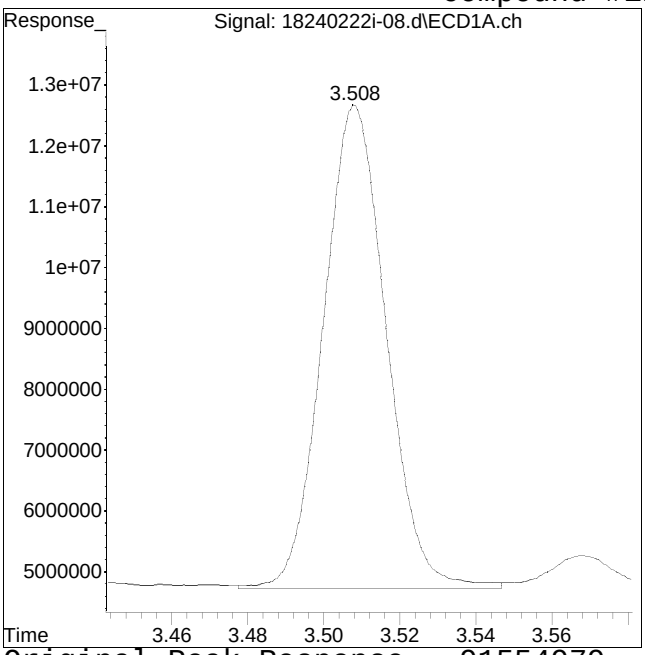


Original Peak Response = 12510515 Manual Peak Response = 12668745 M4
M4 = Poor automated baseline construction.

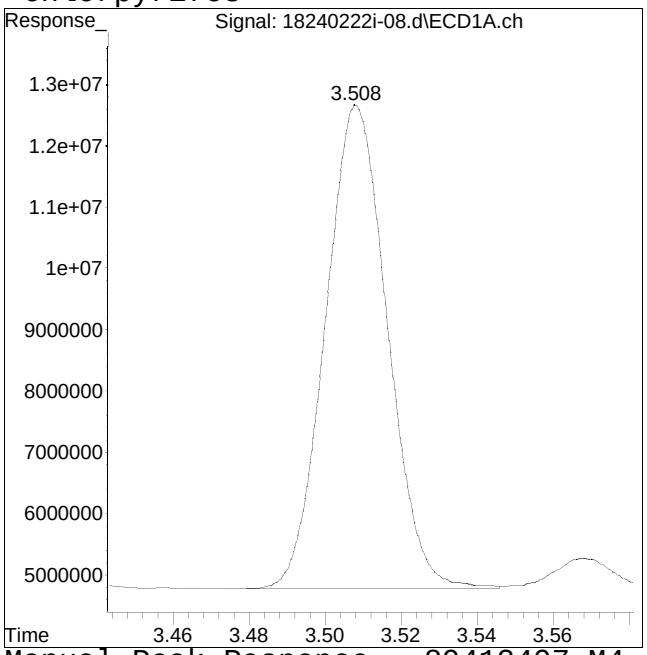
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #11: Chlorpyrifos



Original Peak Response = 91554979



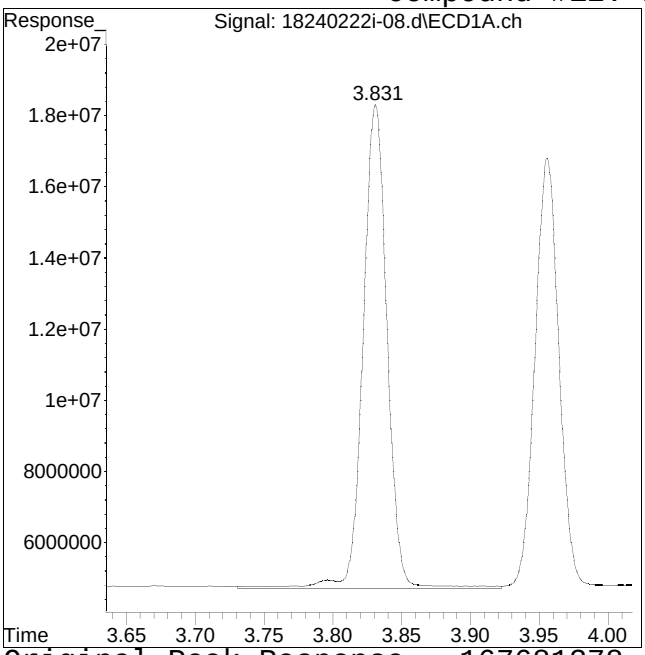
Manual Peak Response = 89412497 M4

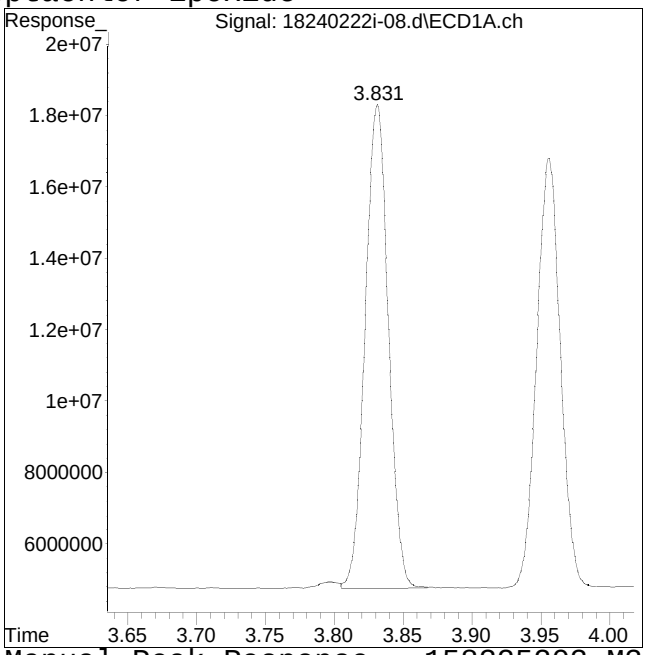
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #12: Heptachlor Epoxide



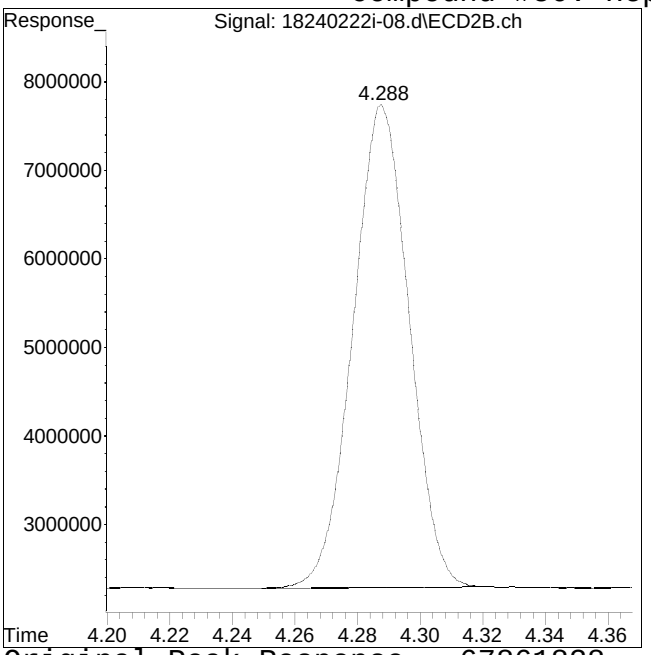


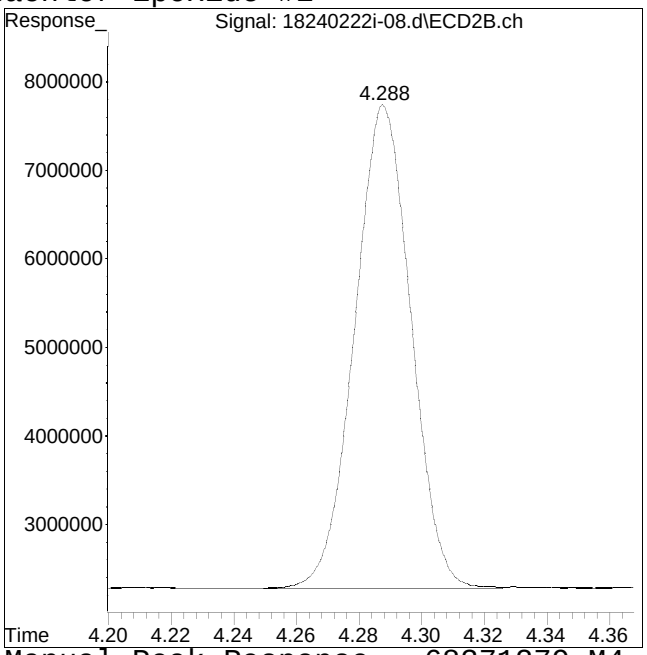
Original Peak Response = 167681378 Manual Peak Response = 158325203 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #50: Heptachlor Epoxide #2



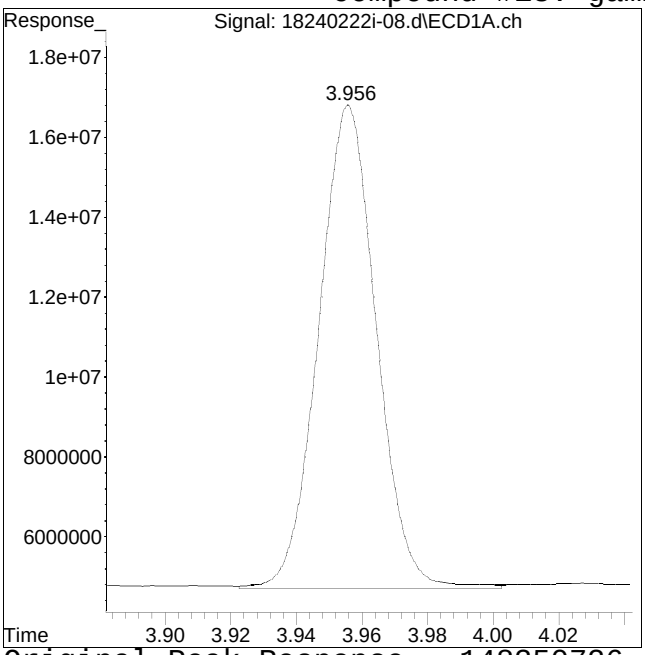


Original Peak Response = 67861838 Manual Peak Response = 68371279 M4
M4 = Poor automated baseline construction.

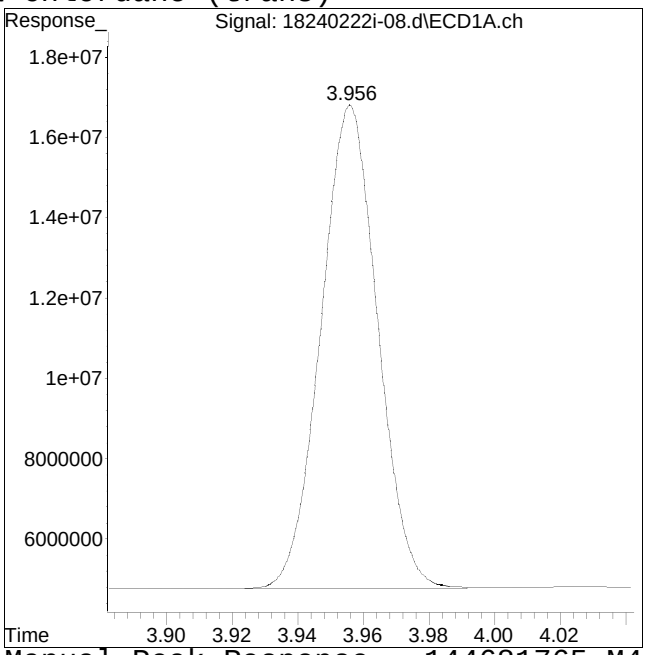
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 148350726



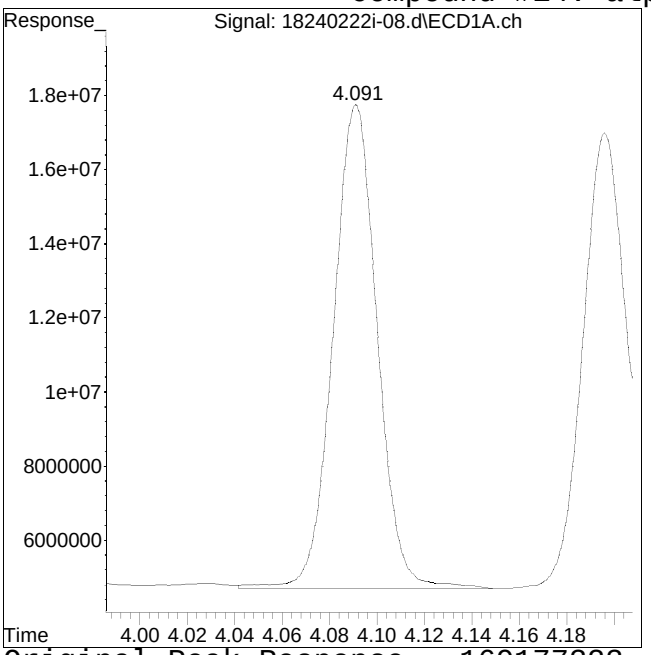
Manual Peak Response = 144681765 M4

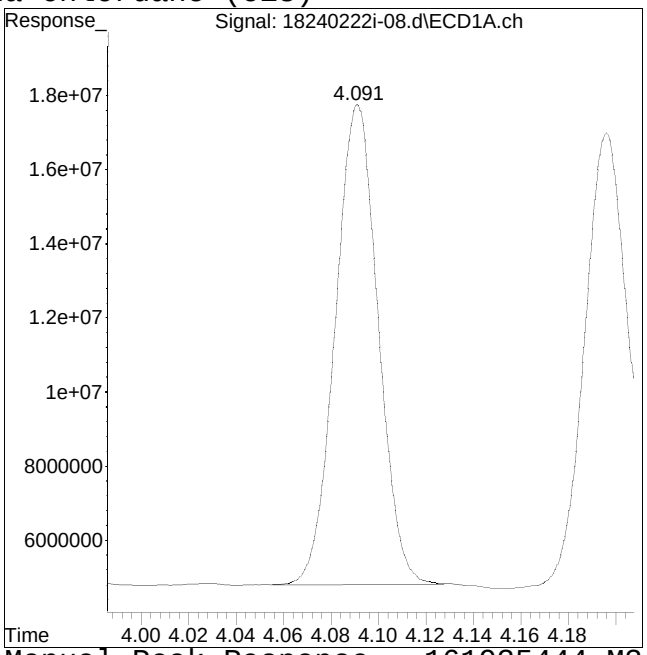
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #14: alpha-Chlordane (cis)



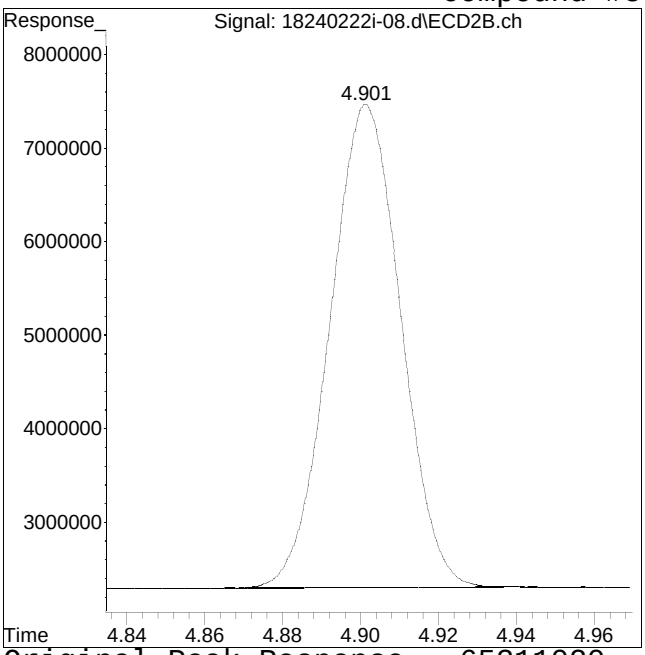


Original Peak Response = 169177323 Manual Peak Response = 161935444 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

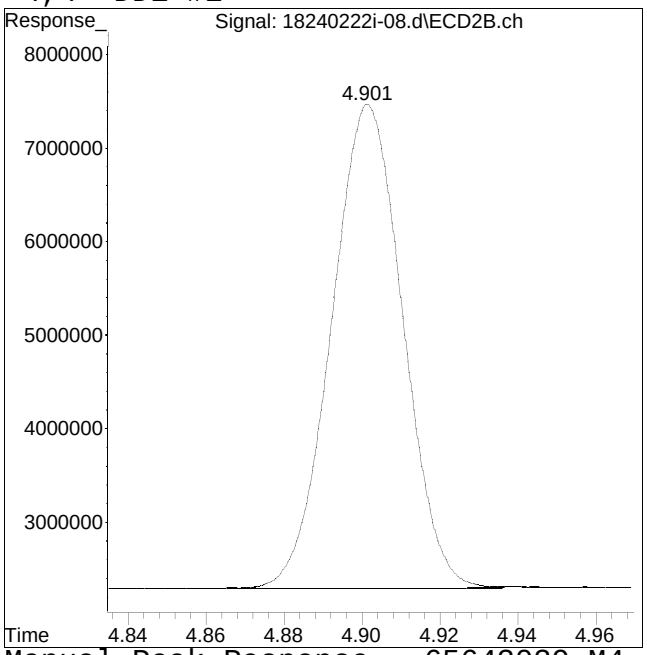
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 65311020



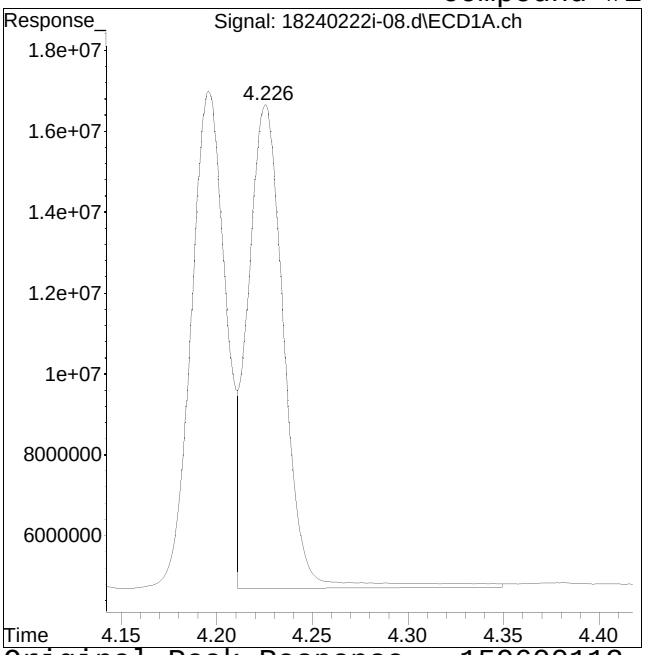
Manual Peak Response = 65643039 M4

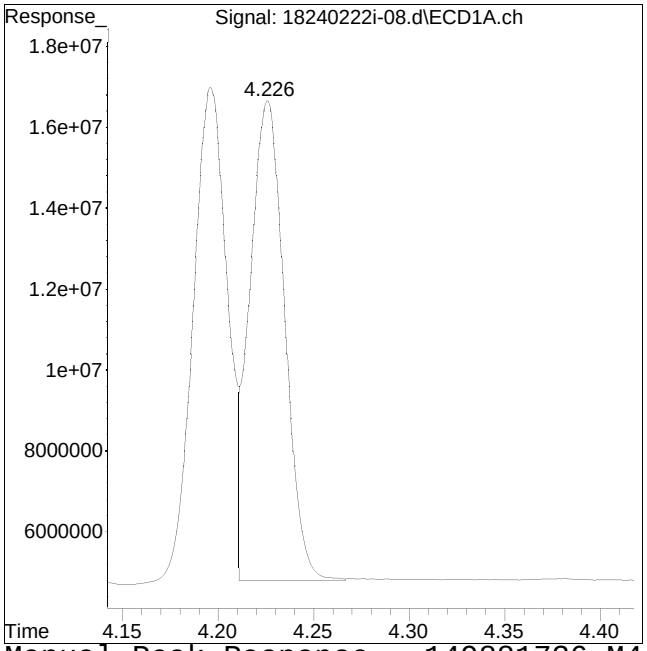
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #16: Endosulfan I



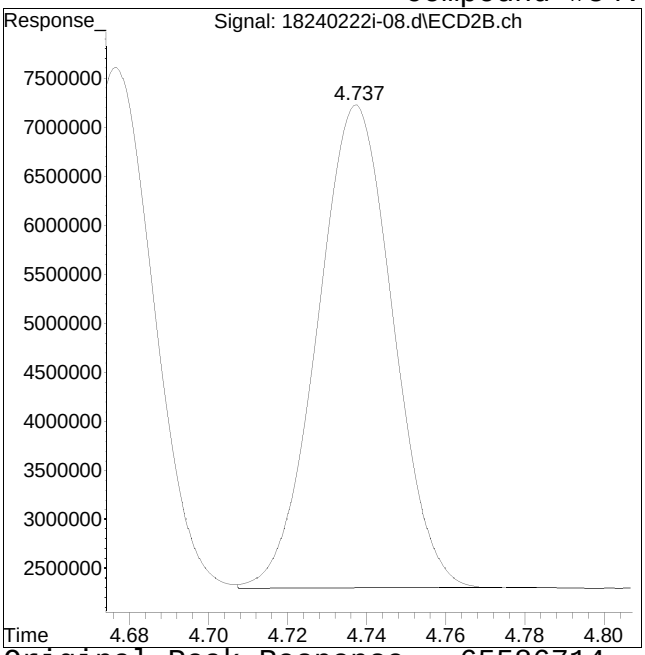


Original Peak Response = 159600112 Manual Peak Response = 149881736 M4
M4 = Poor automated baseline construction.

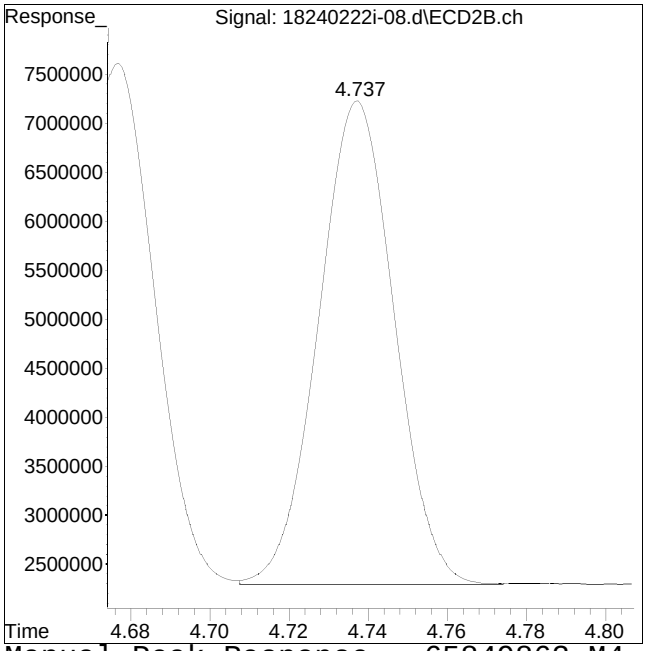
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #54: Endosulfan I #2



Original Peak Response = 65586714



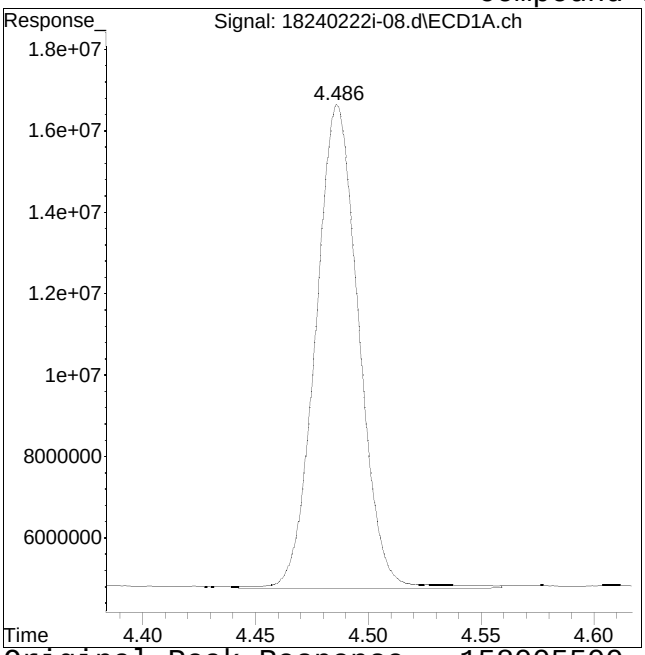
Manual Peak Response = 65849863 M4

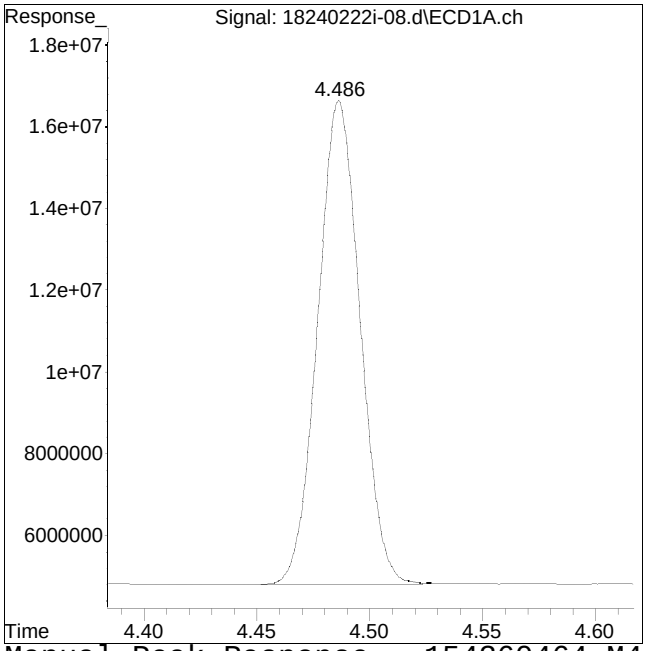
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #17: Dieldrin



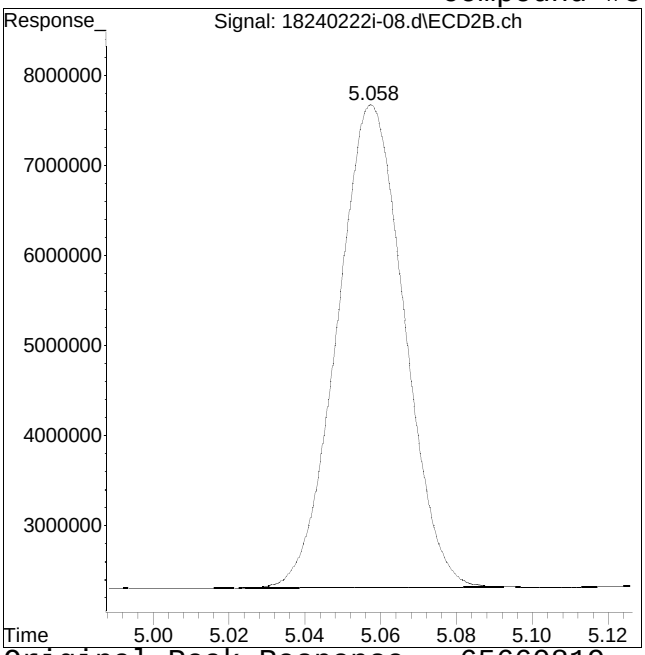


Original Peak Response = 158005500 Manual Peak Response = 154360464 M4
M4 = Poor automated baseline construction.

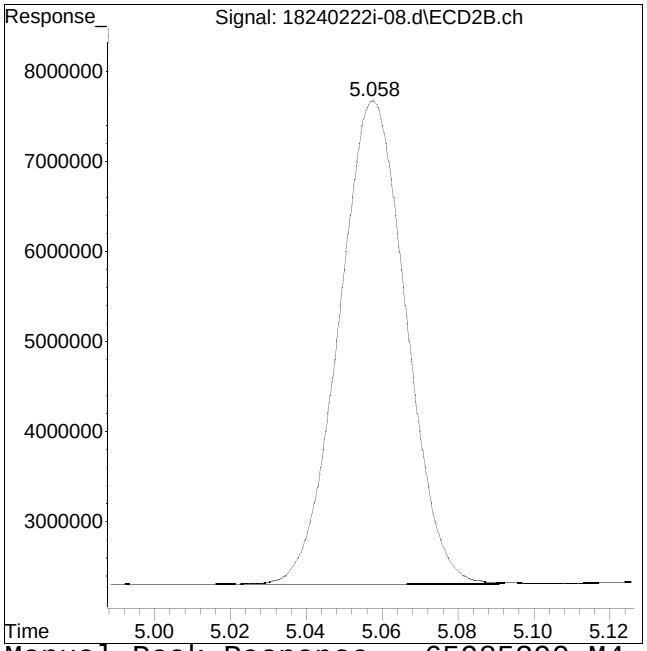
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #55: Dieldrin #2



Original Peak Response = 65660819



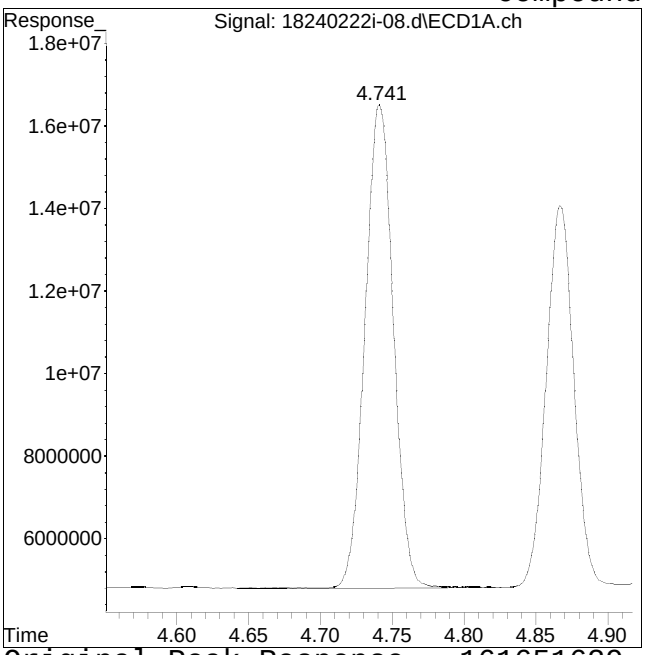
Manual Peak Response = 65985390 M4

M4 = Poor automated baseline construction.

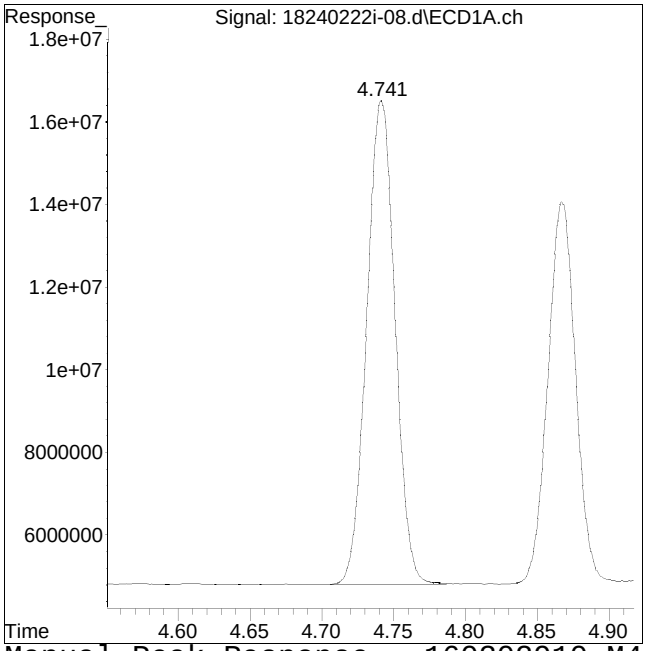
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #18: Endrin



Original Peak Response = 161651629

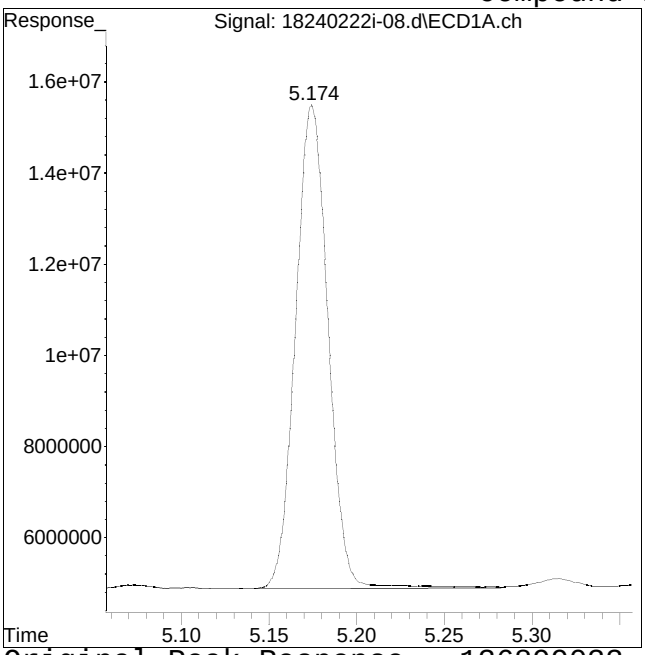


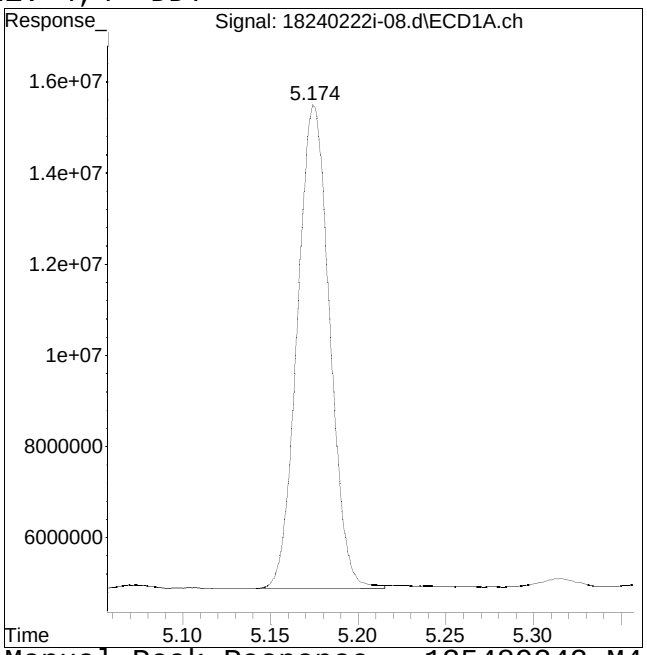
Manual Peak Response = 160302910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #21: 4,4'-DDT



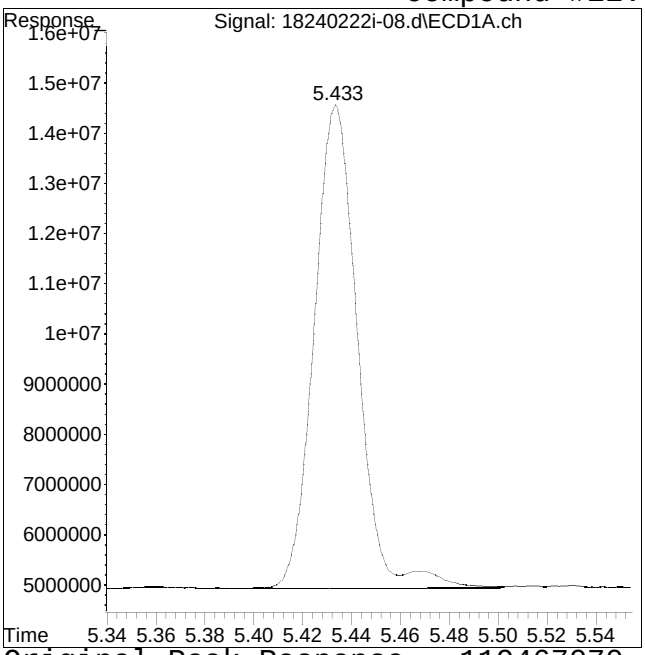


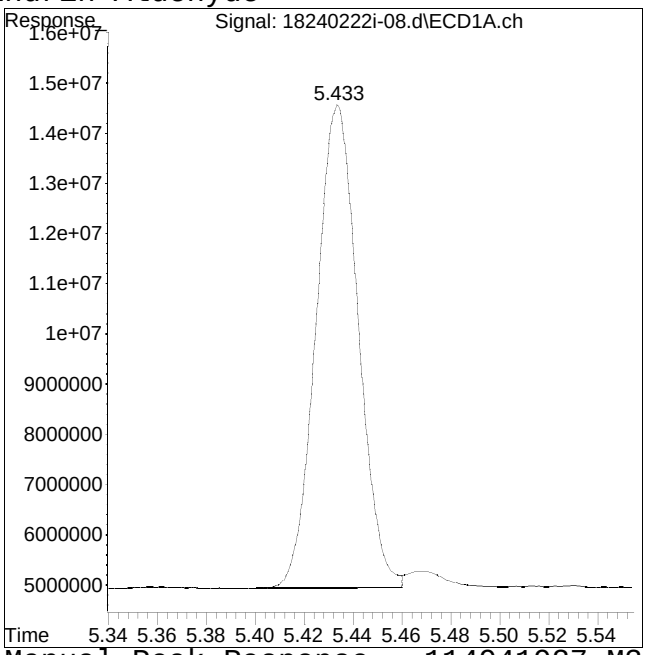
Original Peak Response = 136899033 Manual Peak Response = 135489242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #22: Endrin Aldehyde



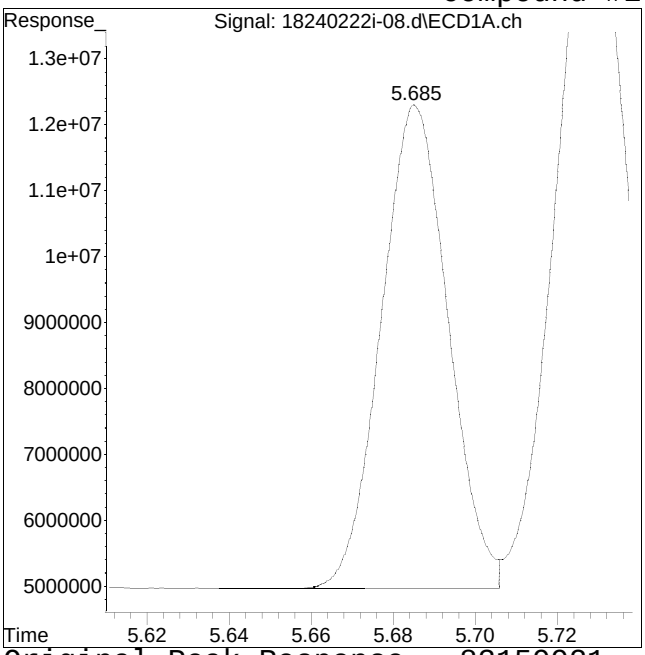


Original Peak Response = 119467070 Manual Peak Response = 114941927 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

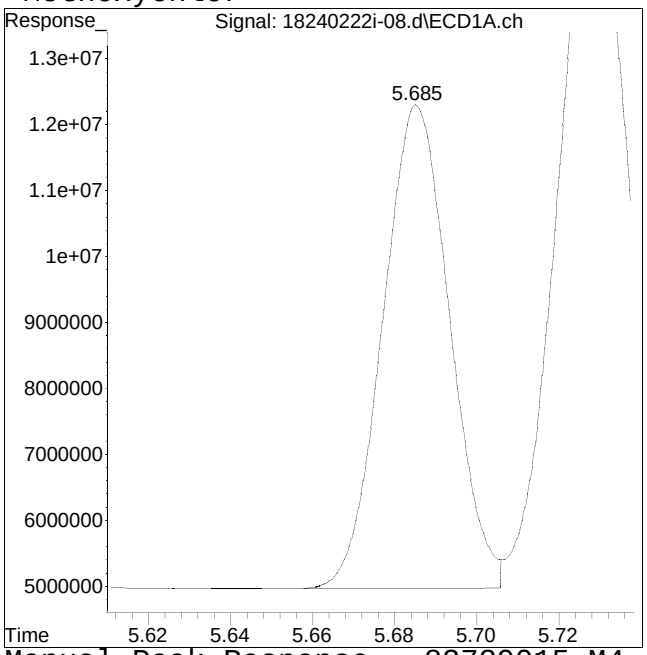
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #23: Methoxychlor



Original Peak Response = 83159921



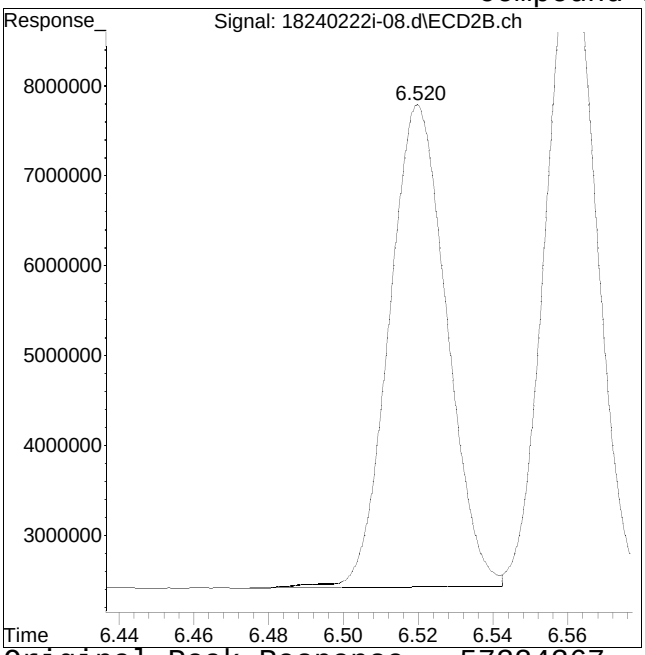
Manual Peak Response = 82739015 M4

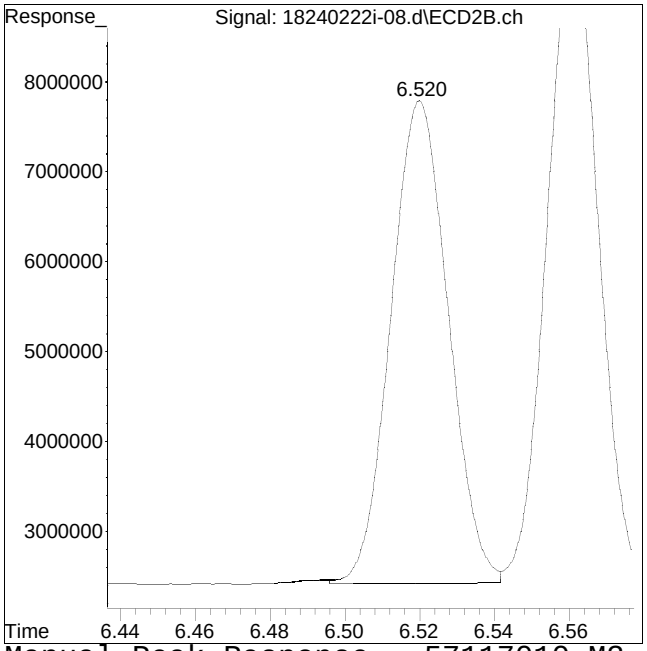
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #62: Mirex #2



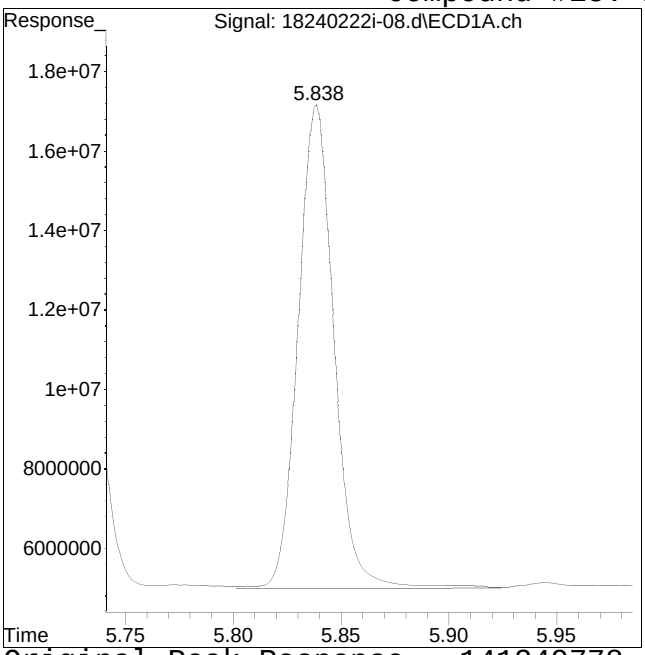


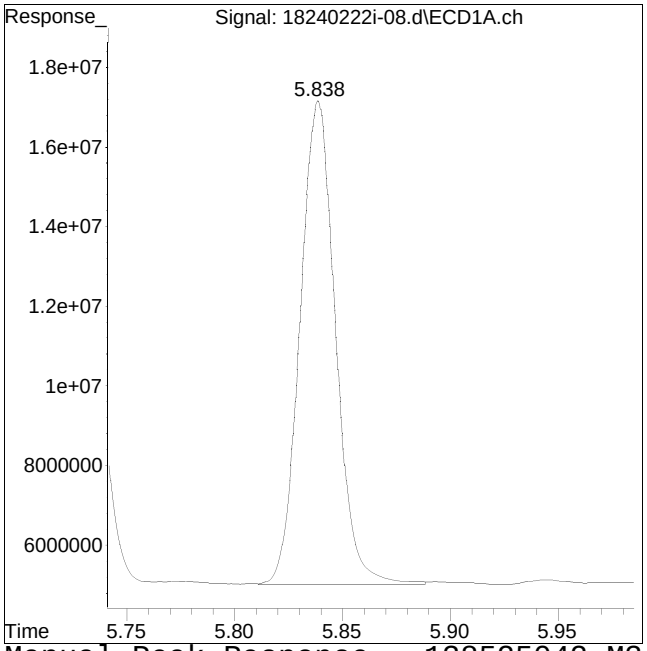
Original Peak Response = 57324367 Manual Peak Response = 57117010 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #25: Endosulfan Sulfate



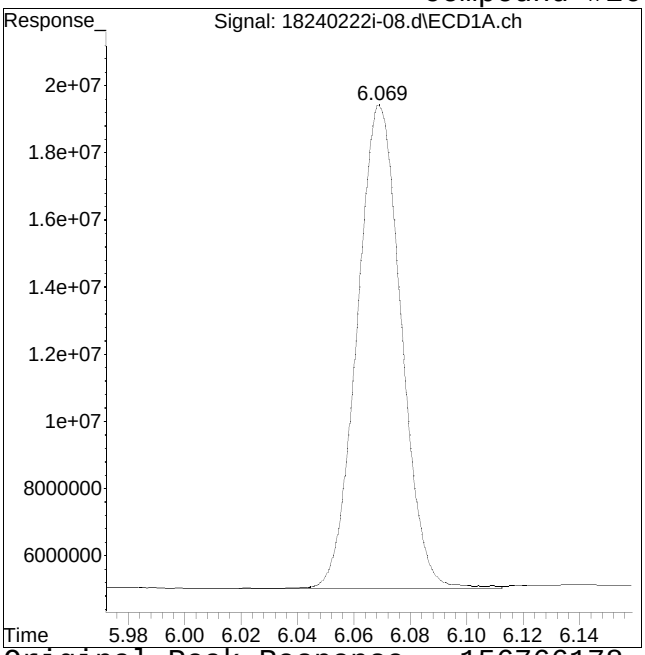


Original Peak Response = 141249778 Manual Peak Response = 138525042 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

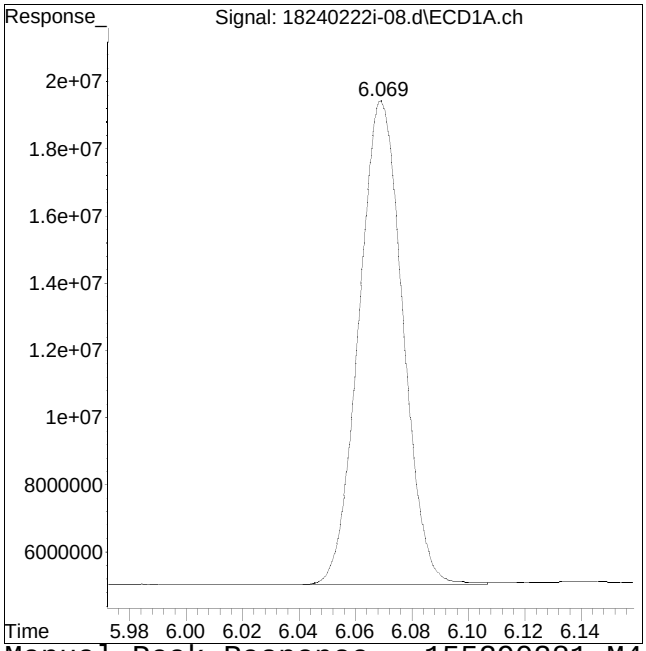
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #26: Endrin Ketone



Original Peak Response = 156766178



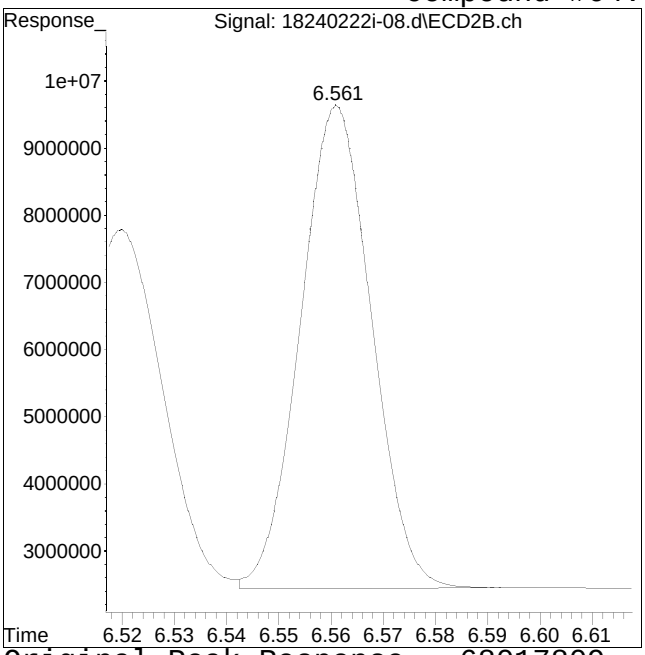
Manual Peak Response = 155290281 M4

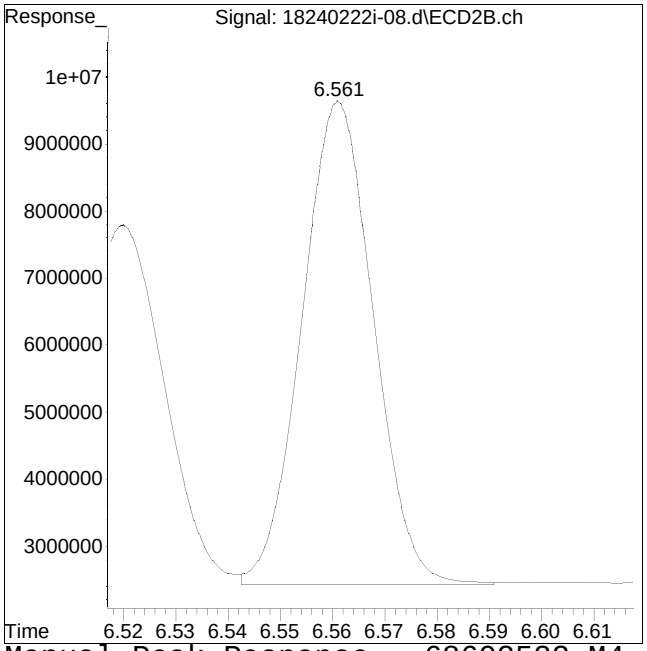
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #64: Endrin Ketone #2



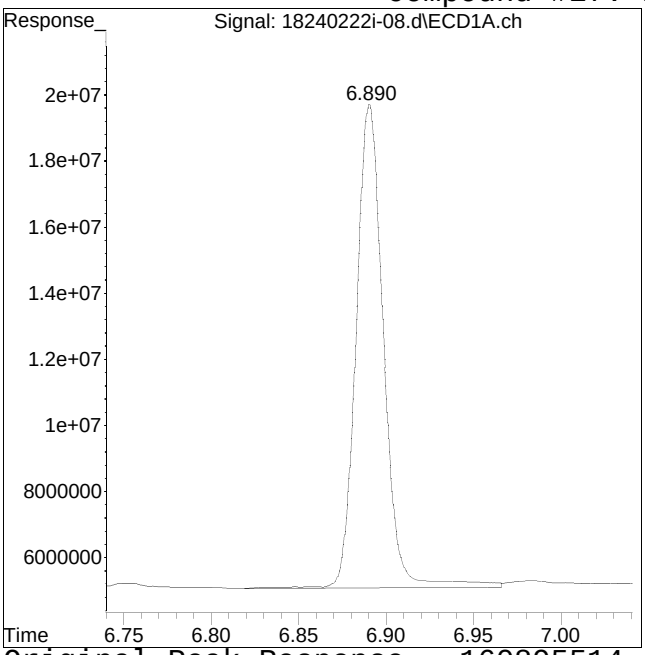


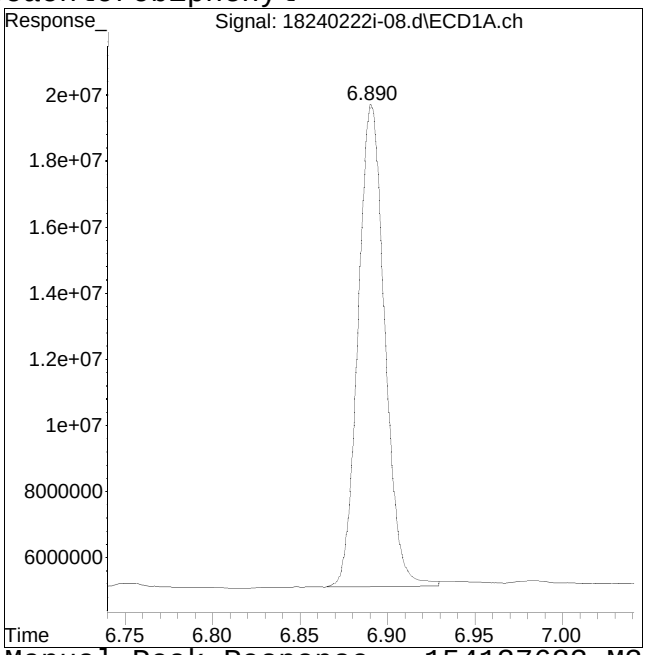
Original Peak Response = 68017809 Manual Peak Response = 68692522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-08.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:06 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 2/27/2024 2:32 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 160895514 Manual Peak Response = 154137633 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:17 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:08:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Feb 12 10:32:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	375.8E6	164.2E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.099	2.262	685.8E6	307.0E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.890	7.452	653.0E6	252.2E6	NoCal M3	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.338	2.594	750.3E6	325.1E6	NoCal M3	NoCal
4)	alpha-BHC	2.450	2.696	961.1E6	429.0E6	NoCal M4	NoCal
5)	gamma-BHC (l	2.667	2.982	879.4E6	394.7E6	NoCal M3	NoCal
6)	beta-BHC	2.731	3.053	394.2E6	179.4E6	NoCal M4	NoCal
7)	delta-BHC	2.862	3.314	884.6E6	401.2E6	NoCal M4	NoCal
8)	Heptachlor	3.029	3.371	854.0E6	385.2E6	NoCal M4	NoCal
9)	Aldrin	3.275	3.681	788.1E6	352.1E6	NoCal M4	NoCal M4
10)	Alachlor	3.414	3.586	132.6E6	57583597	NoCal M4	NoCal M3
11)	Chlorpyrifos	3.508	3.934	373.7E6	174.1E6	NoCal M4	NoCal
12)	Heptachlor E	3.831	4.289	731.2E6	330.8E6	NoCal M3	NoCal
13)	gamma-Chlord	3.955	4.505	671.8E6	299.4E6	NoCal M4	NoCal
14)	alpha-Chlord	4.091	4.677	759.0E6	335.6E6	NoCal	NoCal
15)	4,4'-DDE	4.196	4.902	737.3E6	331.4E6	NoCal	NoCal
16)	Endosulfan I	4.225	4.738	700.8E6	315.4E6	NoCal M4	NoCal
17)	Dieldrin	4.487	5.059	739.2E6	327.1E6	NoCal M4	NoCal
18)	Endrin	4.742	5.376	762.5E6	328.4E6	NoCal	NoCal

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:17 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:08:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Feb 12 10:32:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.867	5.521	599.3E6	268.6E6	NoCal M4	NoCal
20)	Endosulfan I	4.996	5.589	660.8E6	294.4E6	NoCal M4	NoCal
21)	4,4'-DDT	5.174	5.811	673.0E6	309.6E6	NoCal M4	NoCal
22)	Endrin Aldeh	5.434	5.902	526.2E6	231.7E6	NoCal M4	NoCal
23)	Methoxychlor	5.685	6.403	365.2E6	168.7E6	NoCal M4	NoCal
24)	Mirex	5.728	6.521	561.0E6	245.1E6	NoCal M4	NoCal
25)	Endosulfan S	5.838	6.140	640.6E6	276.2E6	NoCal M3	NoCal
26)	Endrin Keton	6.069	6.561	716.3E6	322.0E6	NoCal M3	NoCal M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

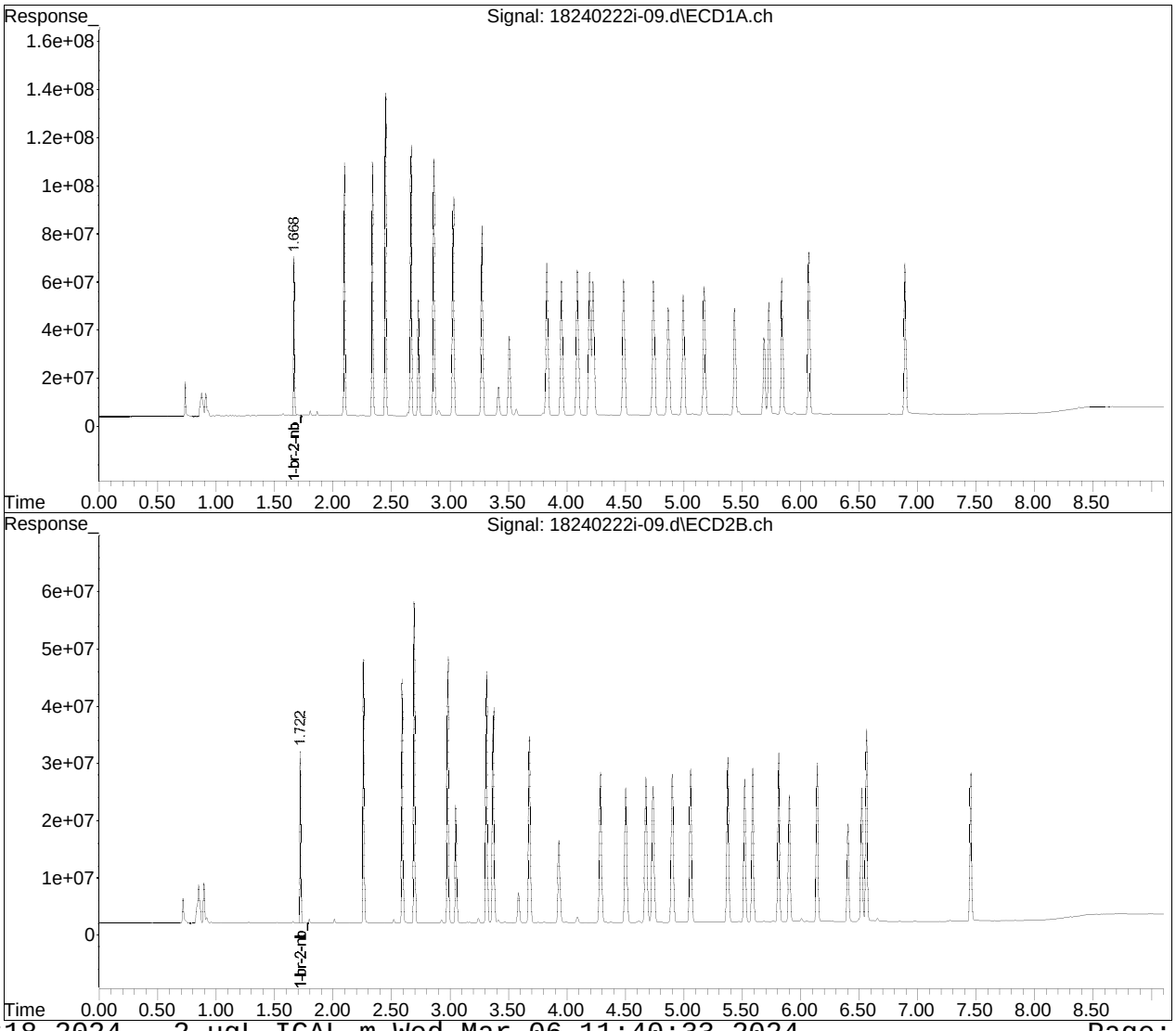
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:17 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:08:50 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Feb 12 10:32:05 2024
Response via : Initial Calibration
Integrator: ChemStation

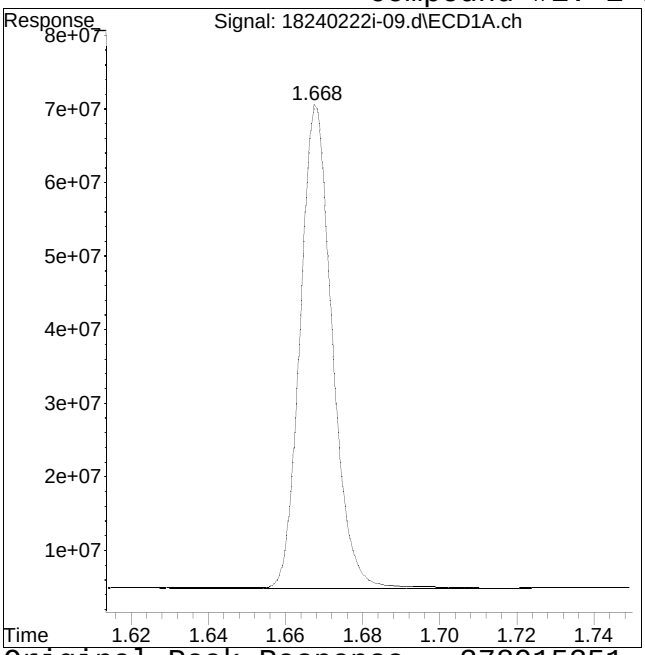
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

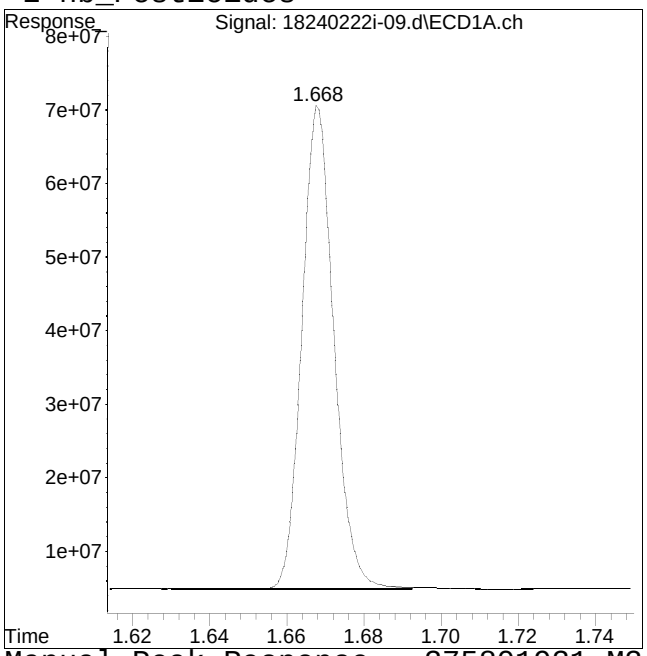


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #1: 1-br-2-nb_Pesticides



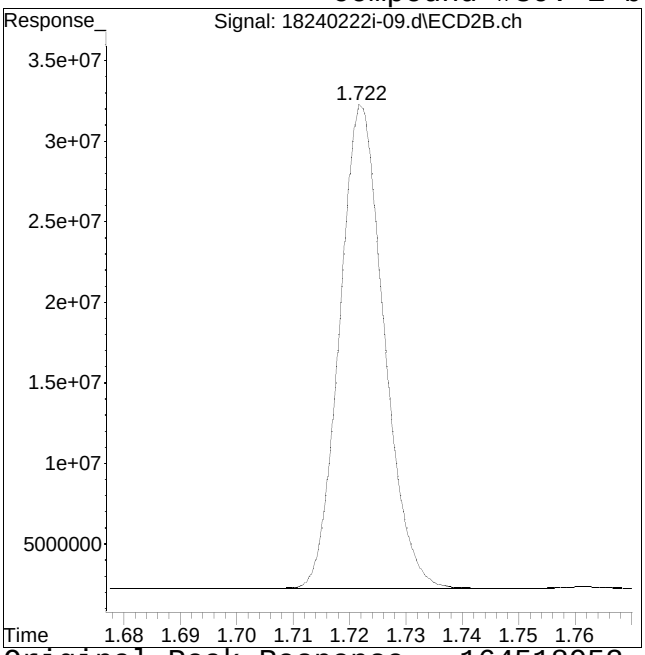


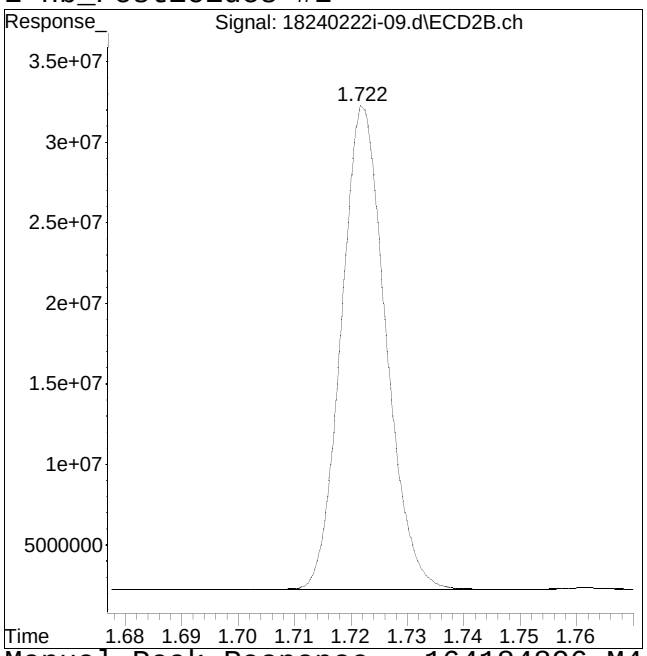
Original Peak Response = 378915351 Manual Peak Response = 375801931 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #39: 1-br-2-nb_Pesticides #2



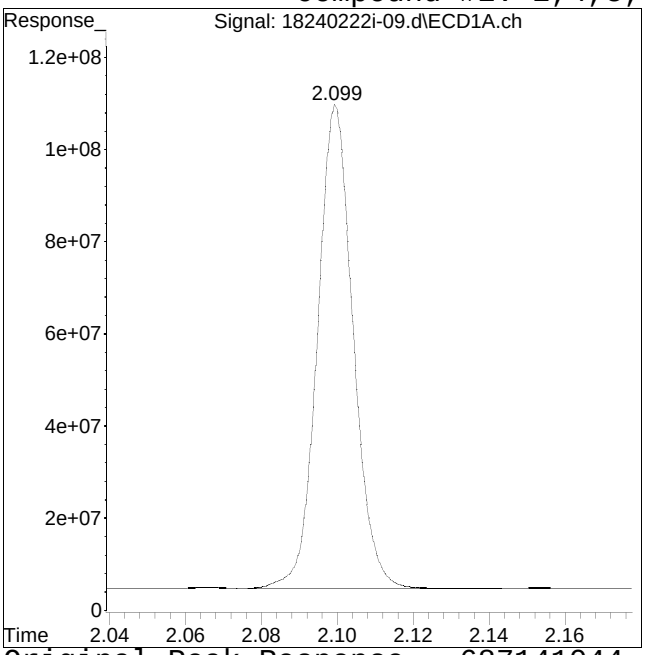


Original Peak Response = 164518953 Manual Peak Response = 164184896 M4
M4 = Poor automated baseline construction.

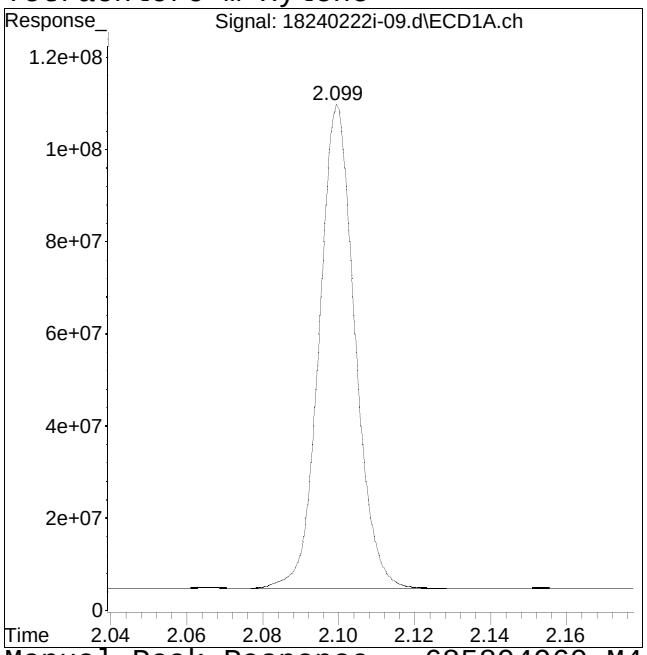
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 687141044



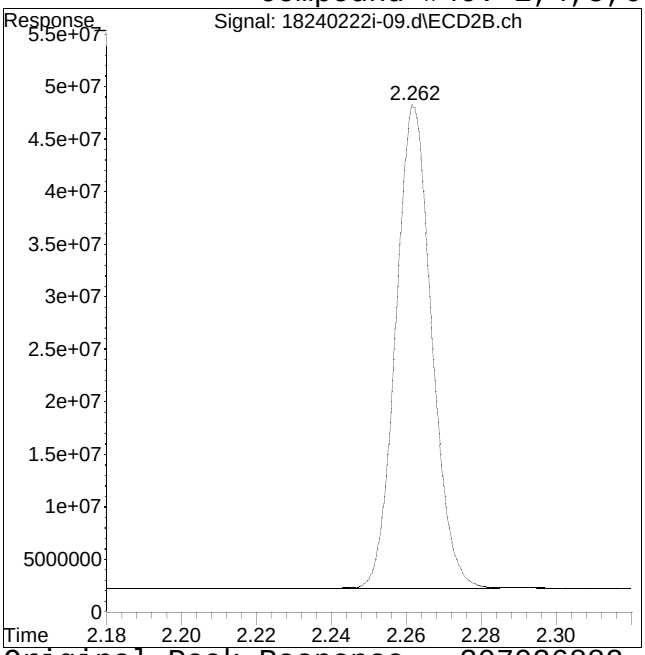
Manual Peak Response = 685804960 M4

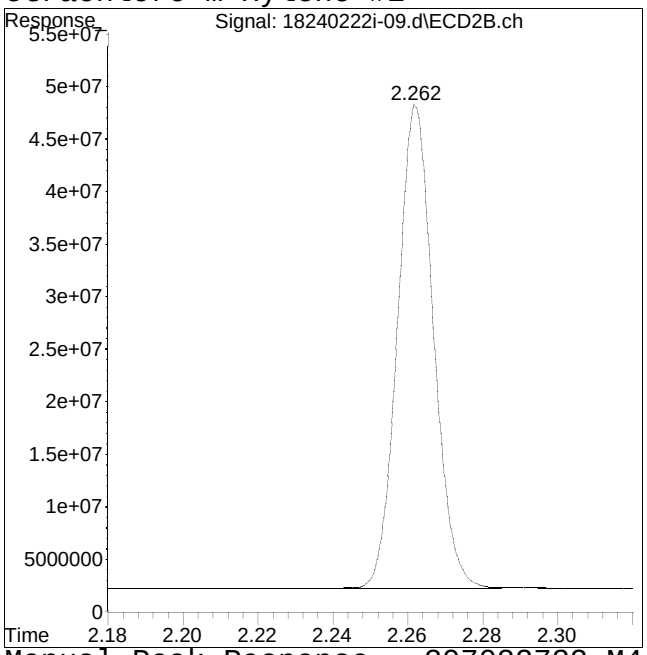
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



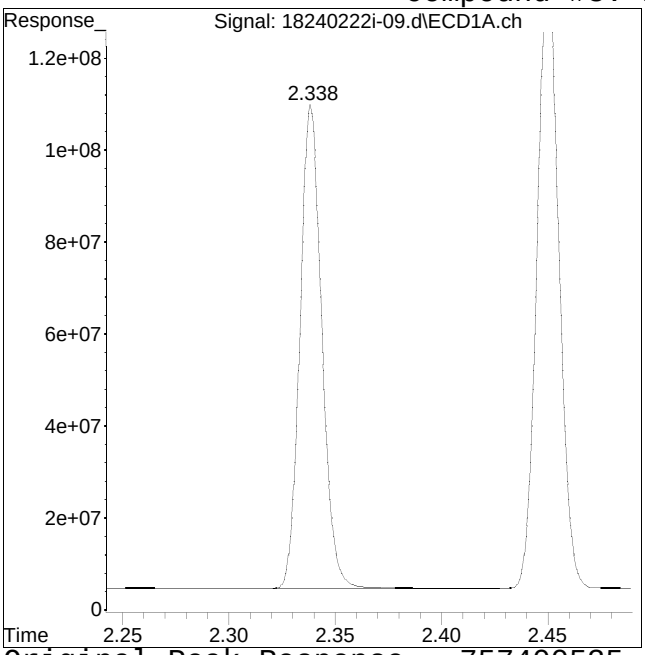


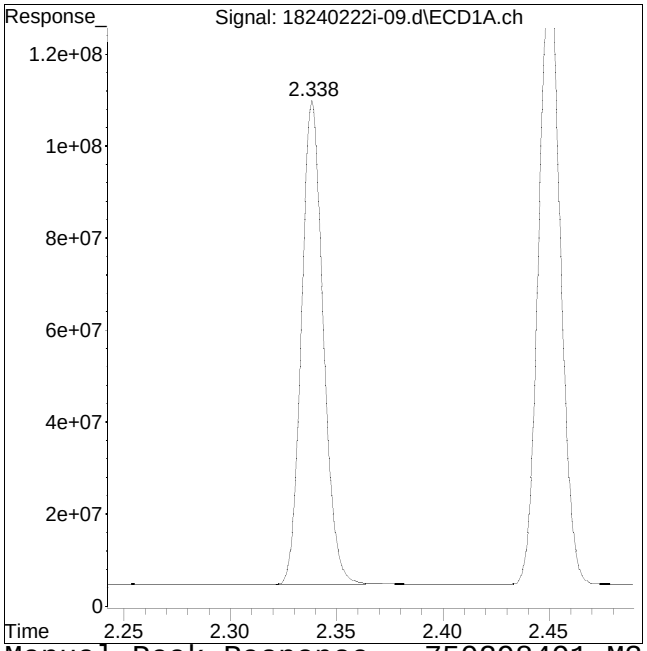
Original Peak Response = 307026882 Manual Peak Response = 307022732 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #3: Hexachlorobenzene



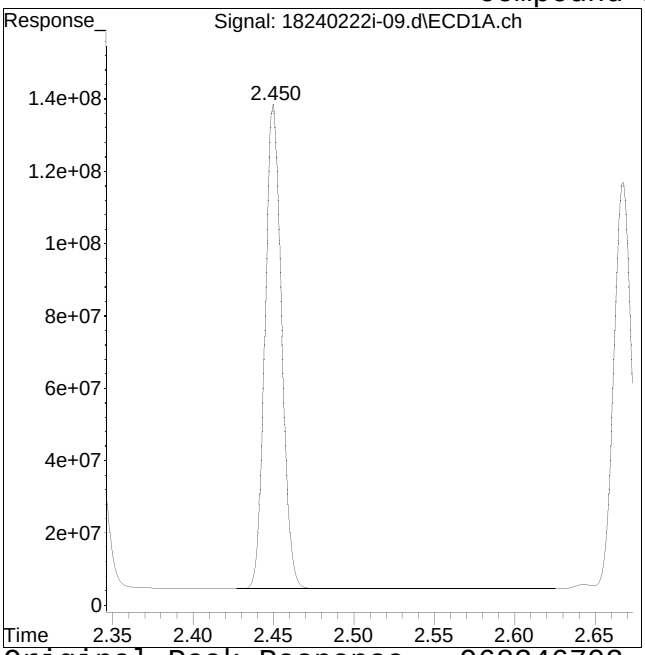


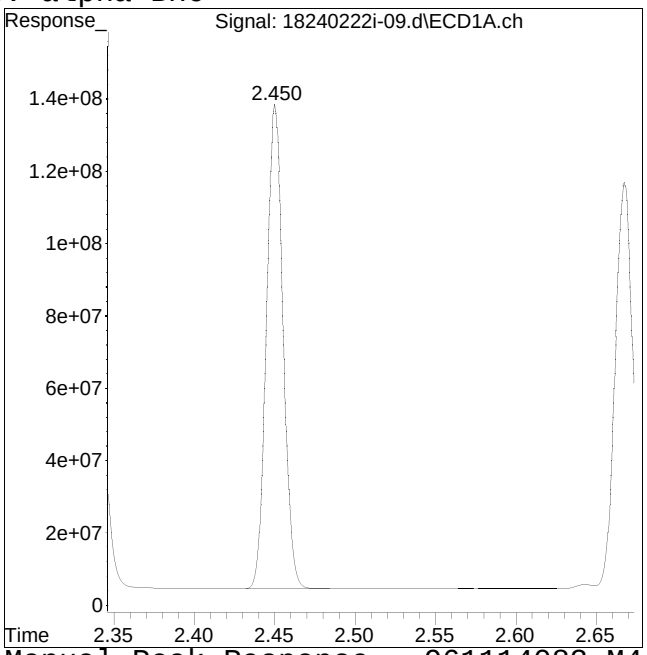
Original Peak Response = 757400535 Manual Peak Response = 750298491 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #4: alpha-BHC



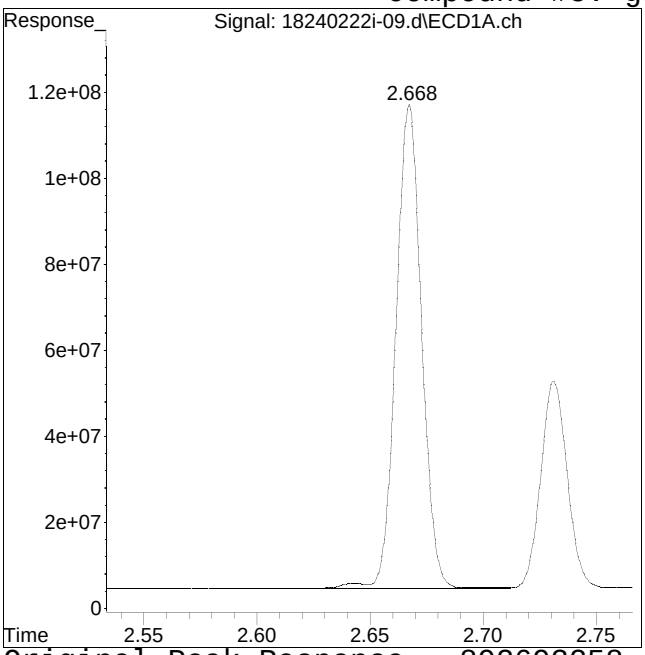


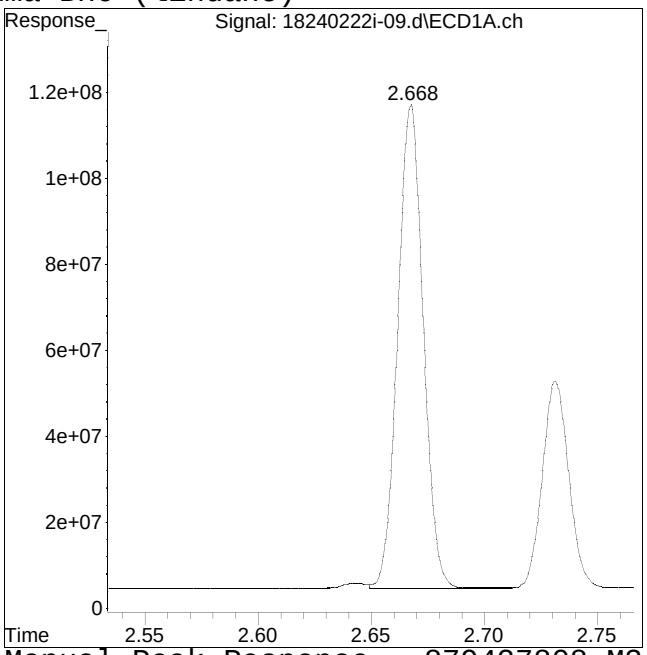
Original Peak Response = 968346702 Manual Peak Response = 961114083 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #5: gamma-BHC (lindane)



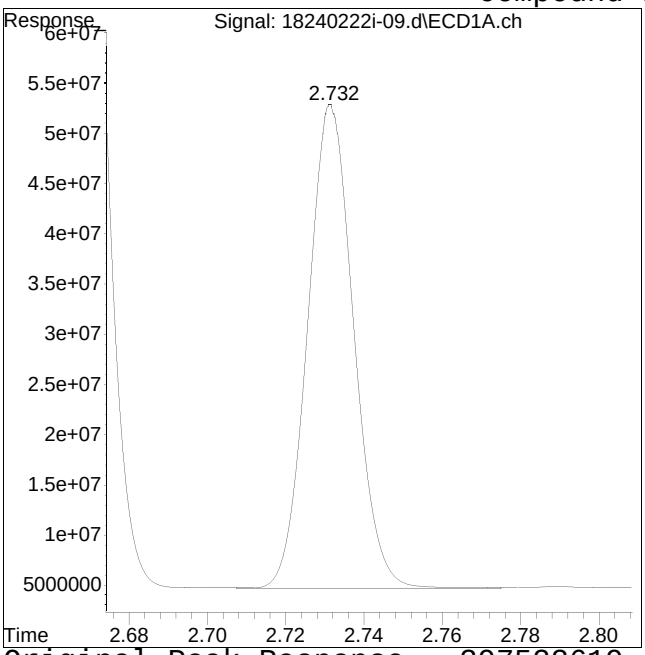


Original Peak Response = 892693258 Manual Peak Response = 879427808 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

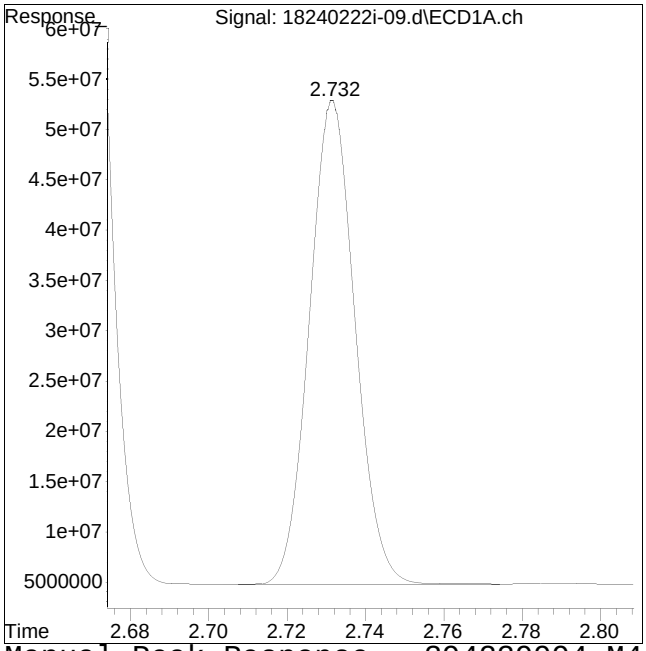
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #6: beta-BHC



Original Peak Response = 397522619

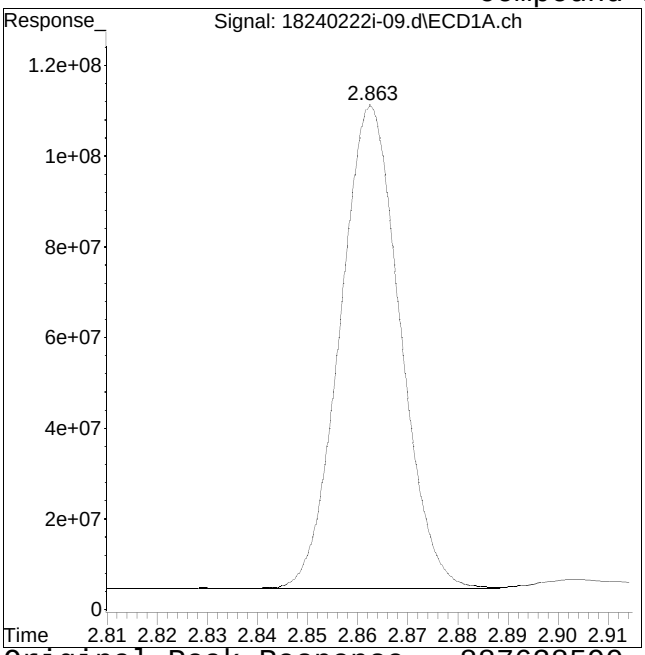


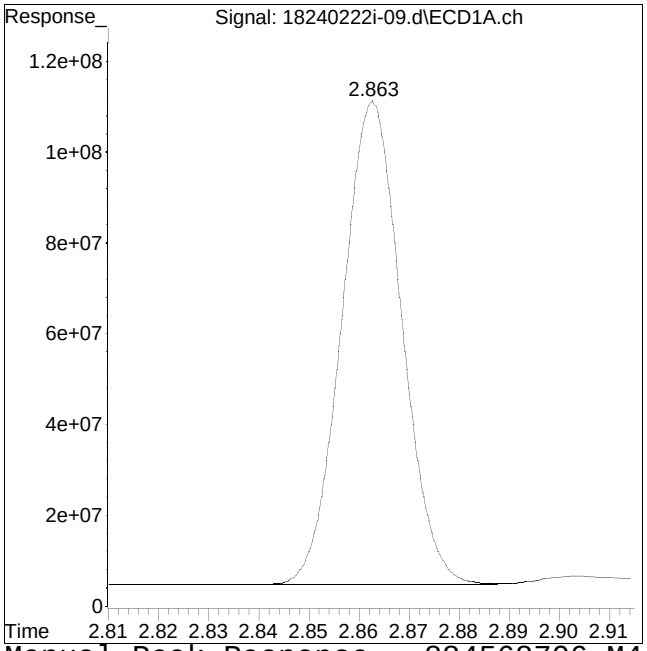
Manual Peak Response = 394239994 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #7: delta-BHC



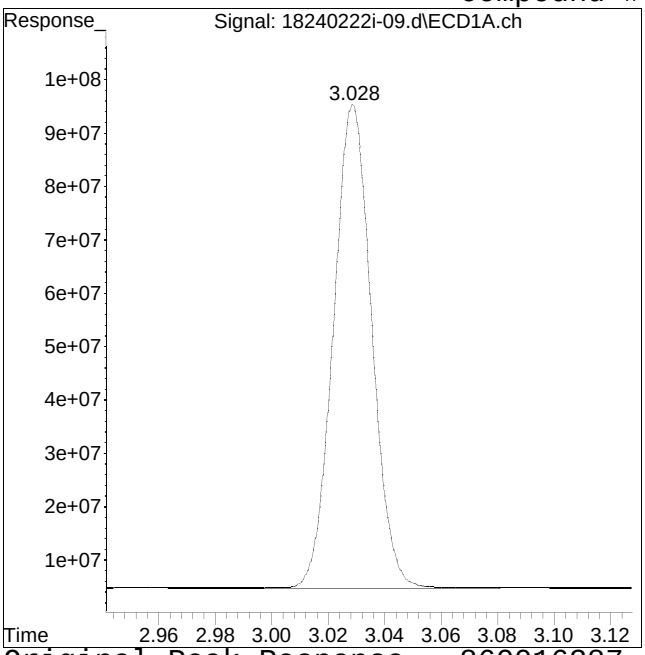


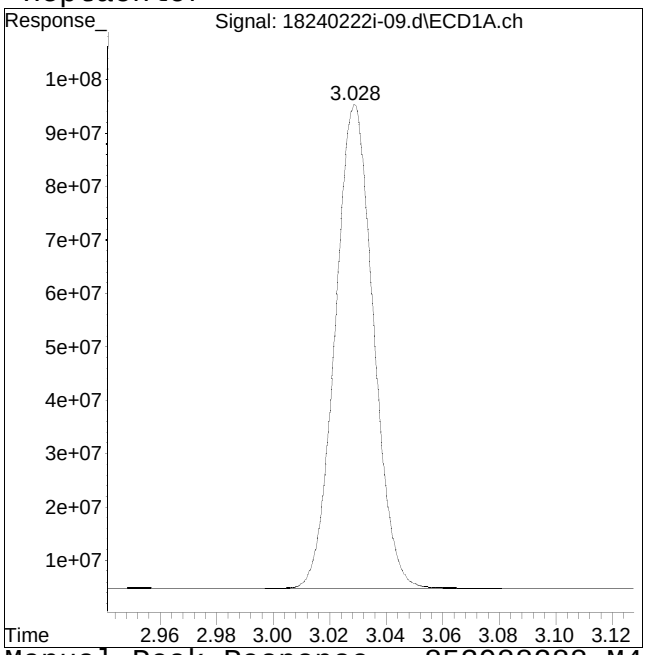
Original Peak Response = 887638590 Manual Peak Response = 884568706 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #8: Heptachlor



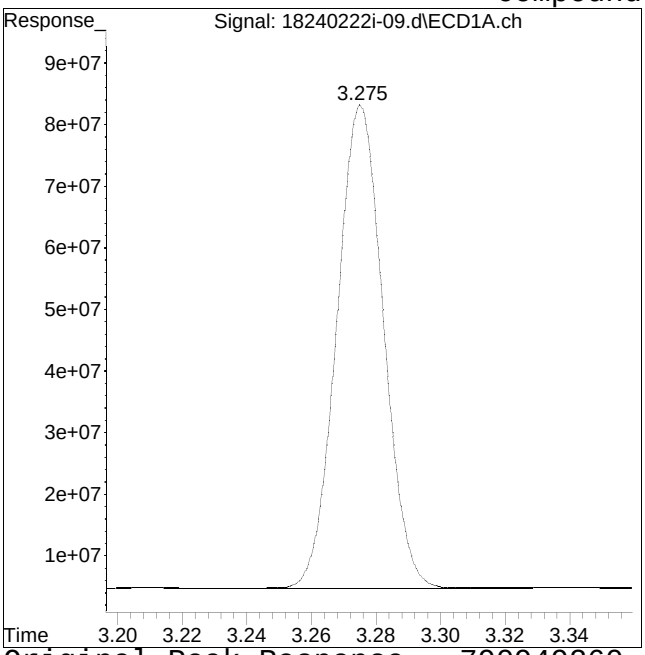


Original Peak Response = 860016387 Manual Peak Response = 853988288 M4
M4 = Poor automated baseline construction.

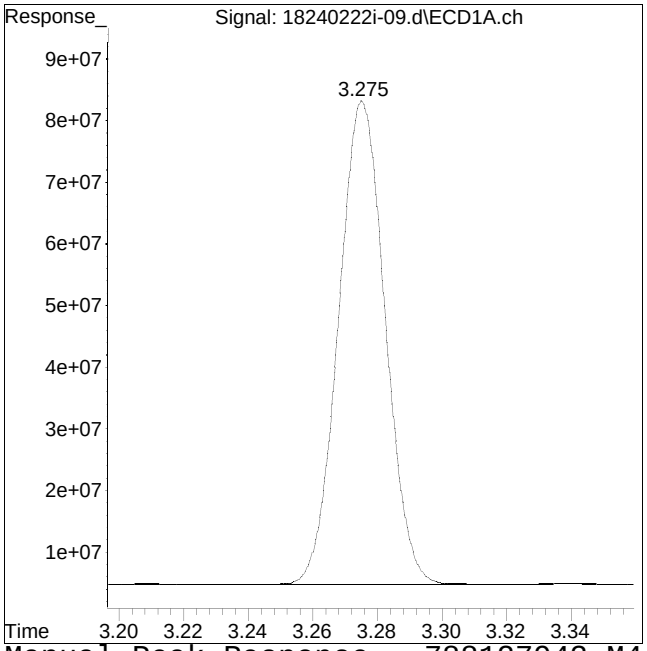
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #9: Aldrin



Original Peak Response = 790949260



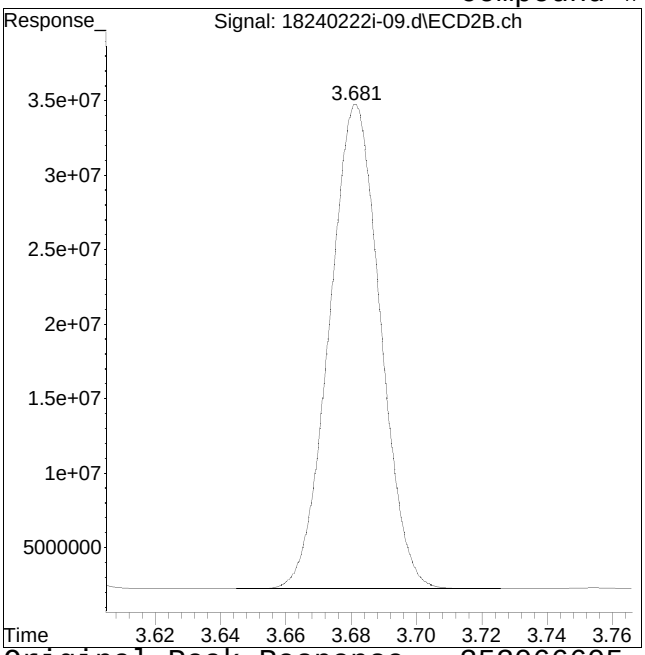
Manual Peak Response = 788127943 M4

M4 = Poor automated baseline construction.

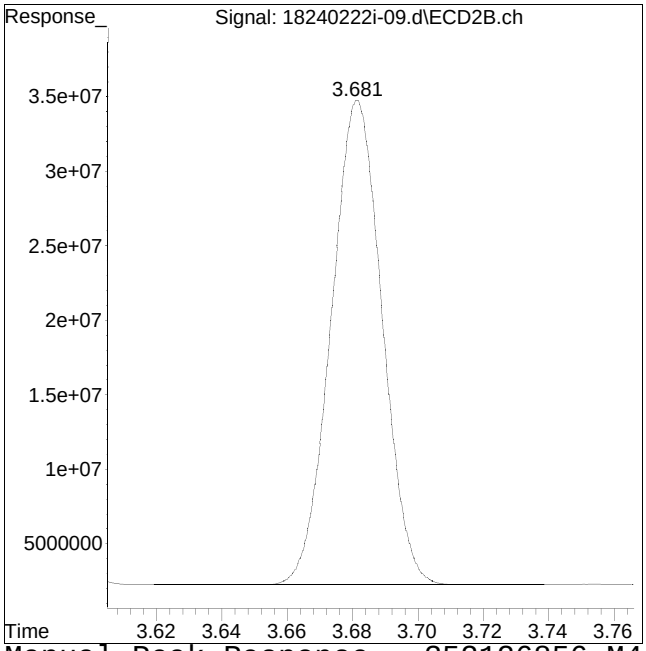
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #47: Aldrin #2



Original Peak Response = 353066605

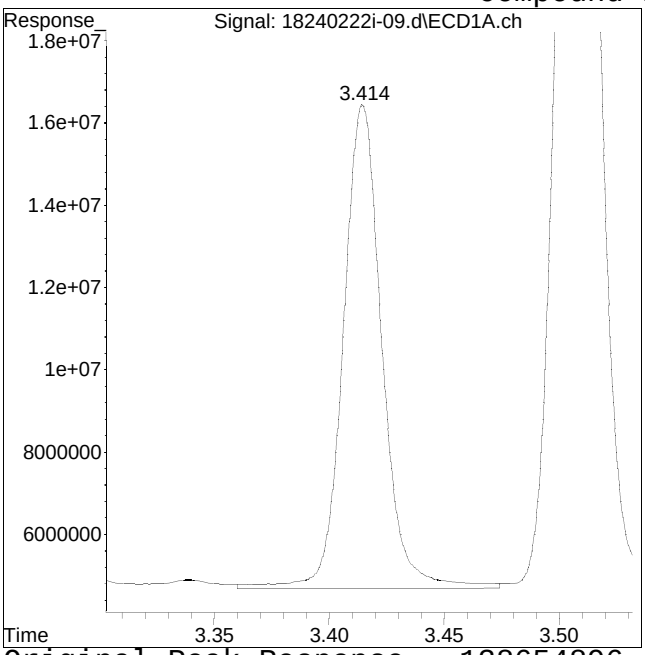


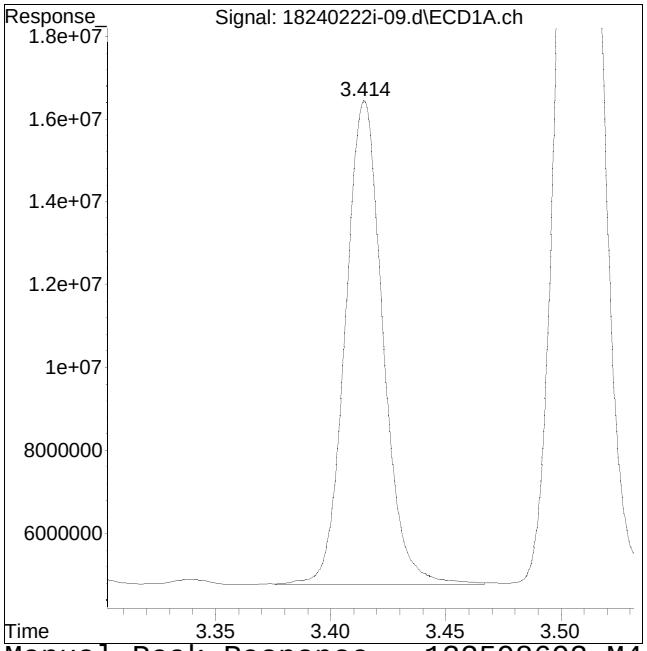
Manual Peak Response = 352126856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #10: Alachlor



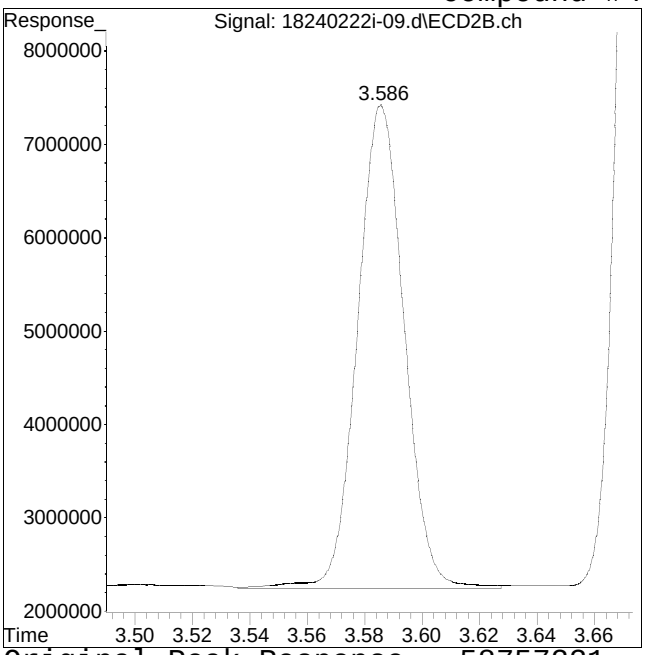


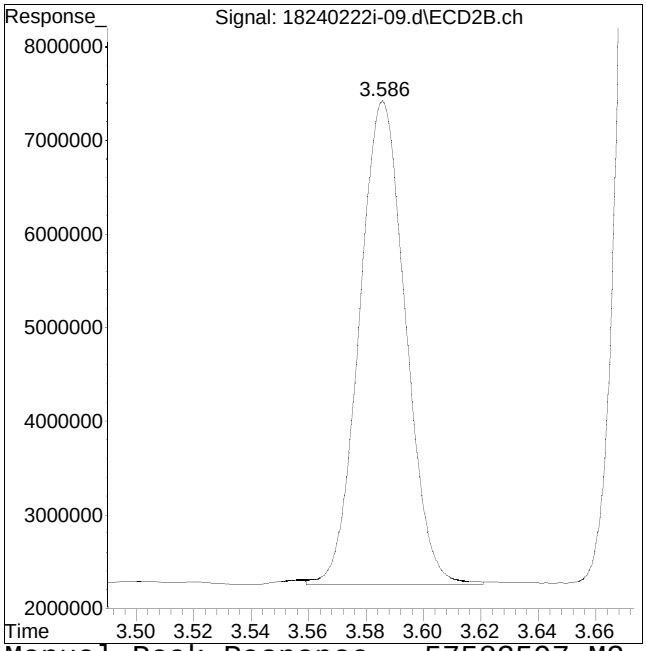
Original Peak Response = 138654896 Manual Peak Response = 132598693 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #48: Alachlor #2



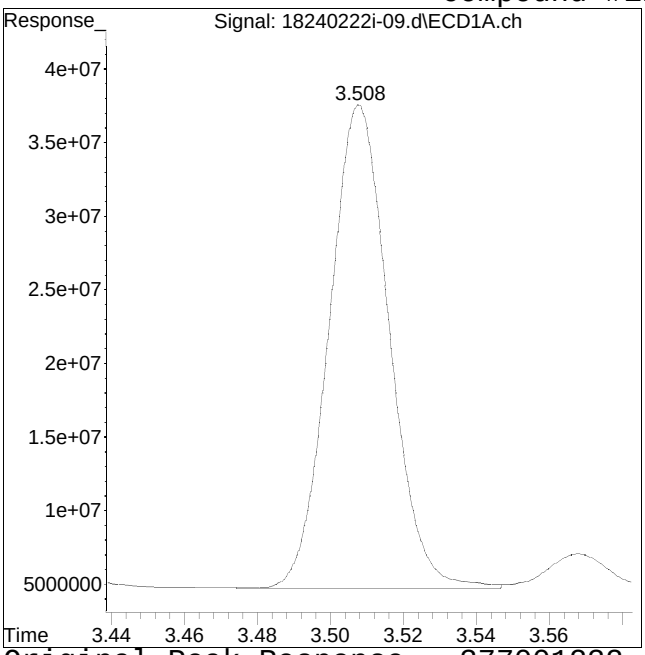


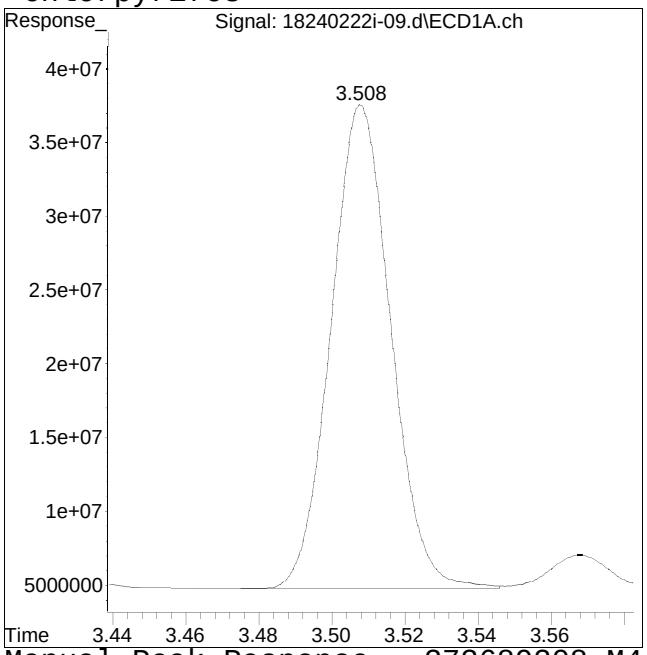
Original Peak Response = 58757231 Manual Peak Response = 57583597 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #11: Chlorpyrifos



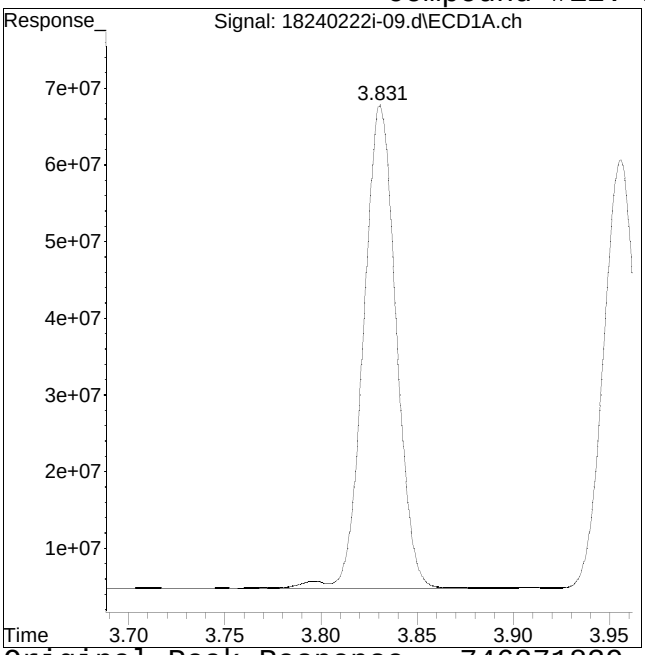


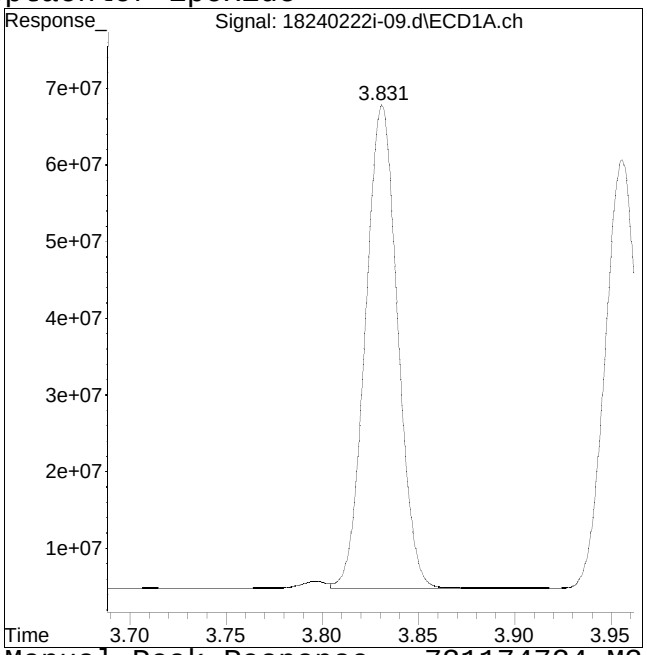
Original Peak Response = 377001232 Manual Peak Response = 373689308 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #12: Heptachlor Epoxide



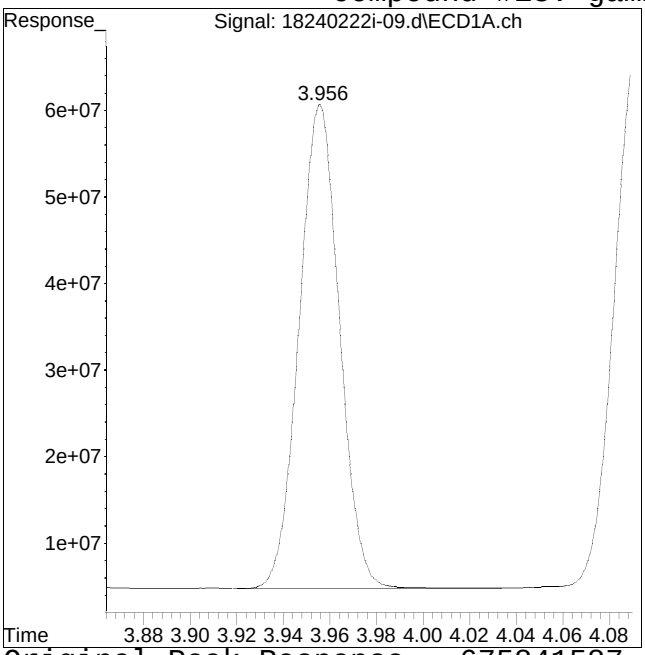


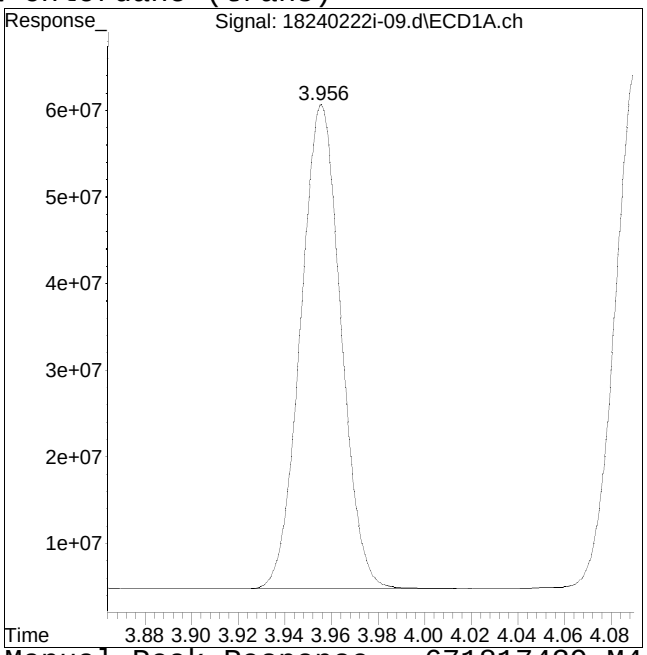
Original Peak Response = 746271839 Manual Peak Response = 731174724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #13: gamma-Chlordane (trans)



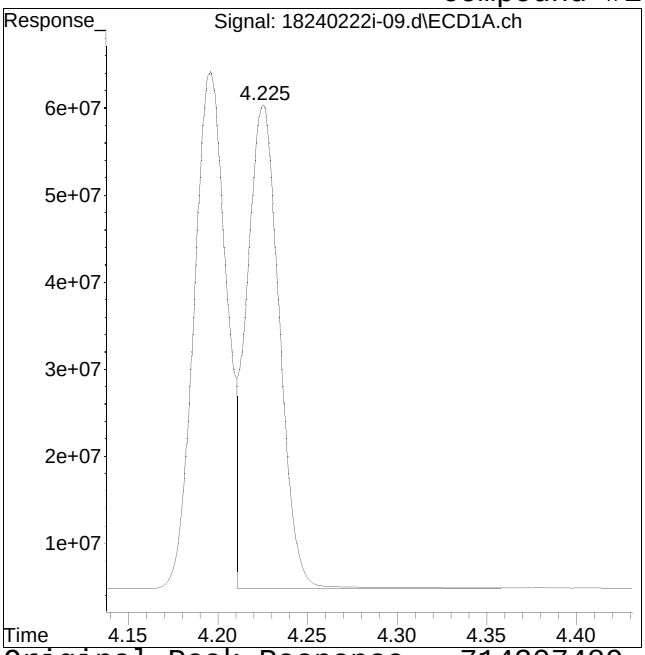


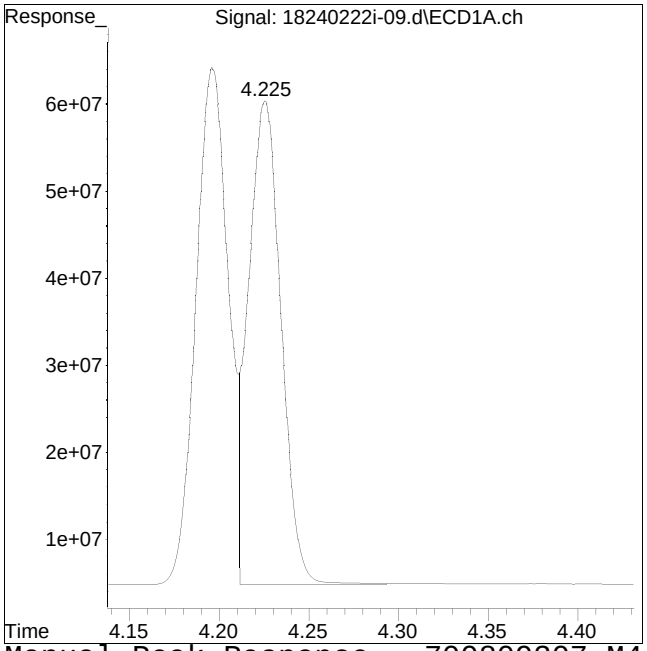
Original Peak Response = 675841587 Manual Peak Response = 671817439 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #16: Endosulfan I



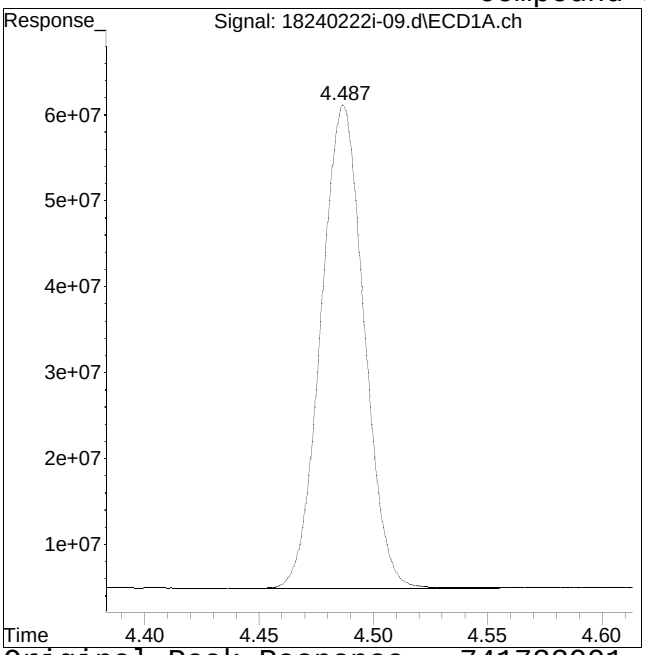


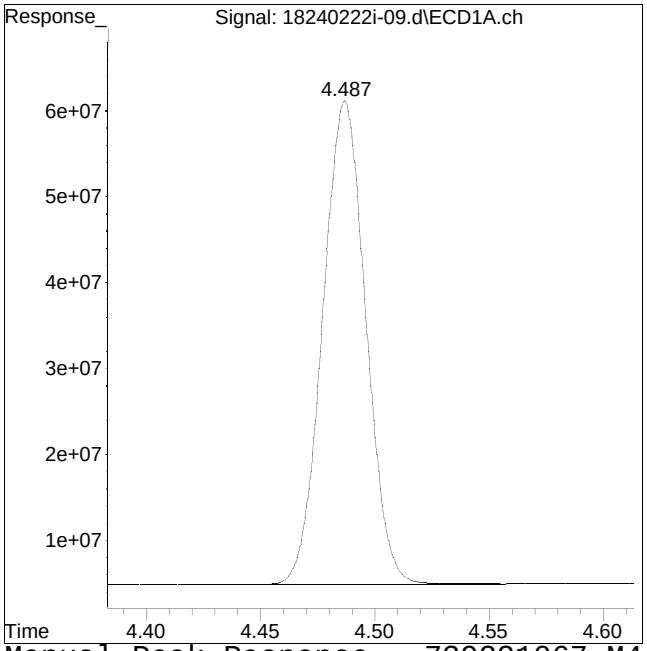
Original Peak Response = 714307489 Manual Peak Response = 700809307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #17: Dieldrin



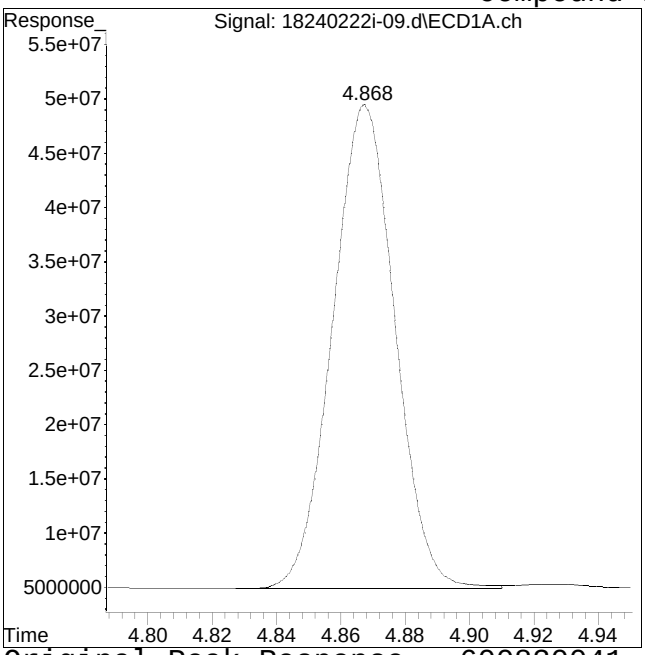


Original Peak Response = 741732901 Manual Peak Response = 739221067 M4
M4 = Poor automated baseline construction.

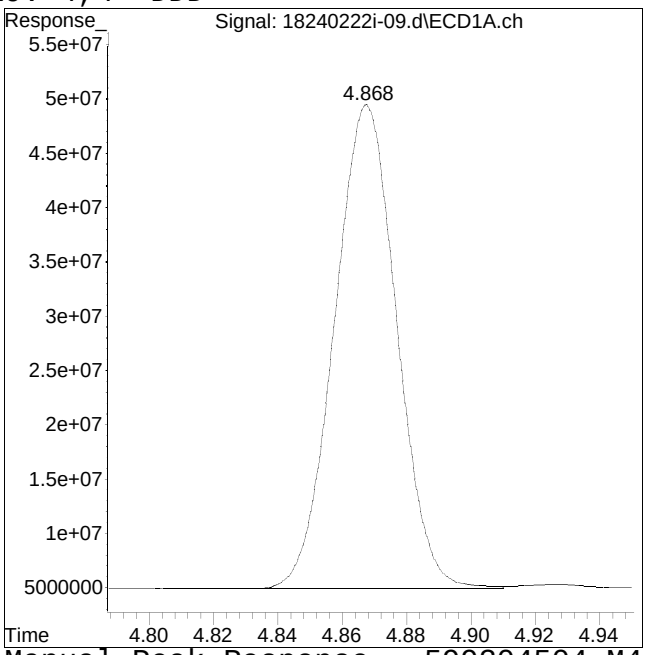
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #19: 4,4'-DDD



Original Peak Response = 600830041

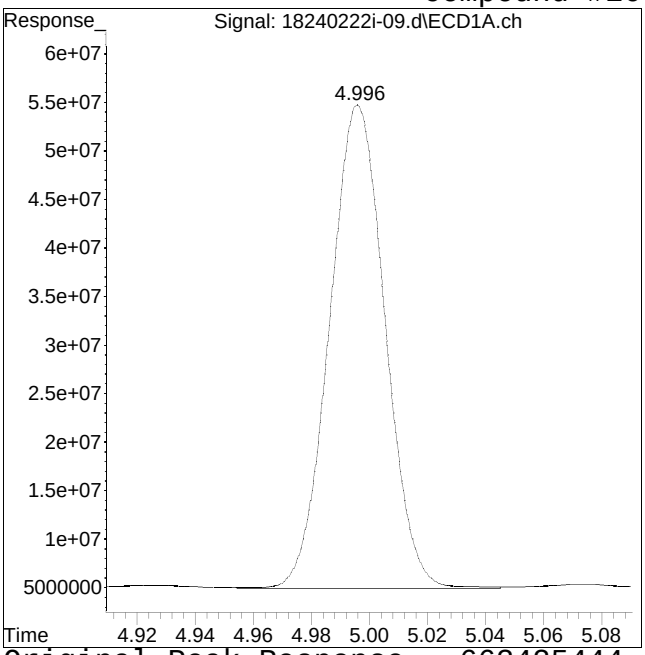


Manual Peak Response = 599304504 M4
M4 = Poor automated baseline construction.

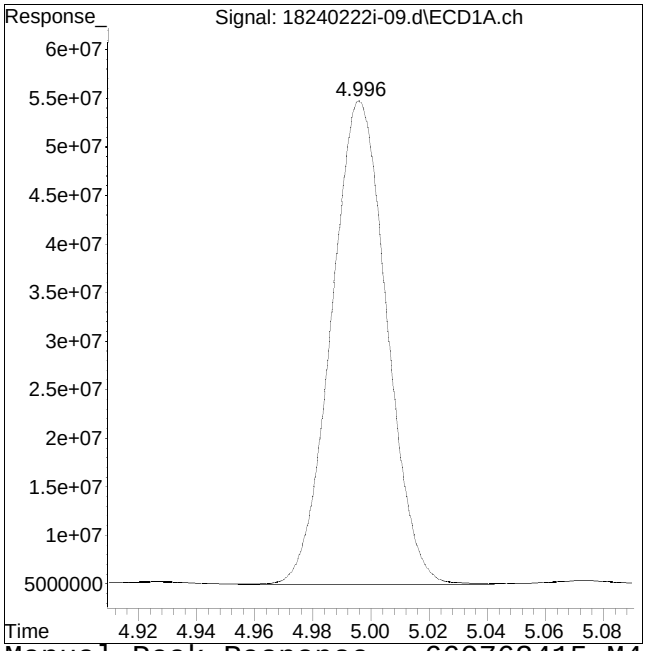
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #20: Endosulfan II



Original Peak Response = 663425444

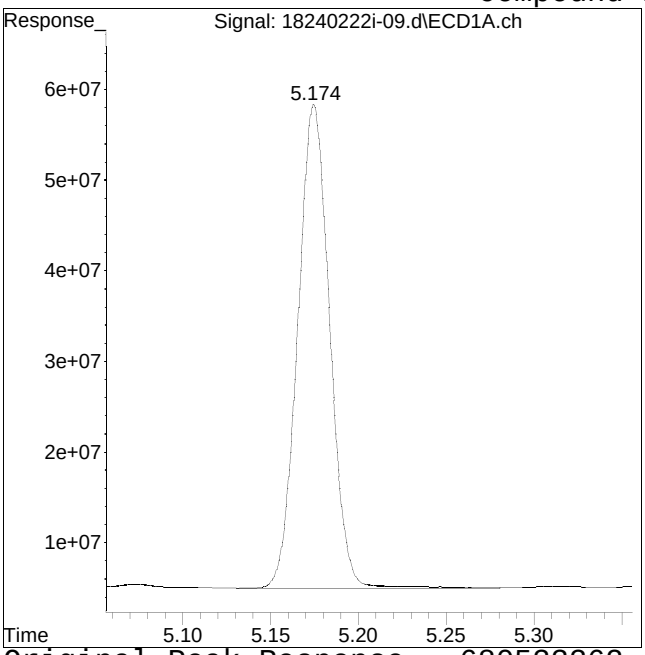


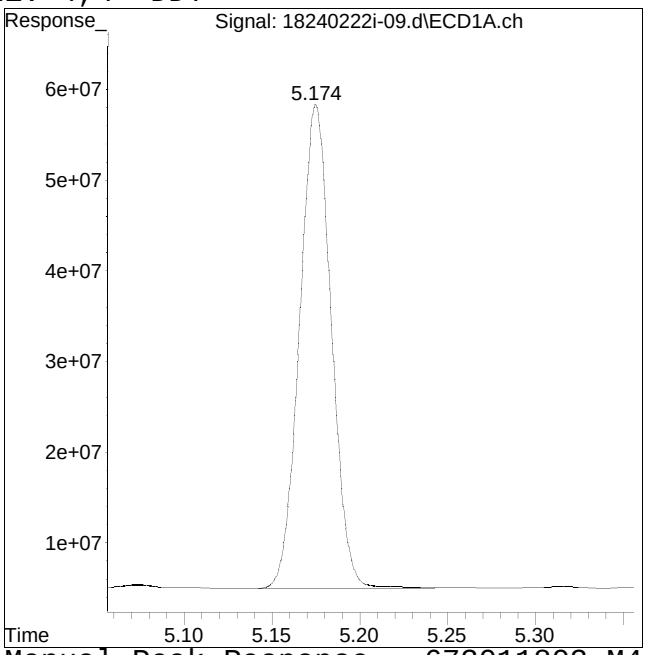
Manual Peak Response = 660763415 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #21: 4,4'-DDT



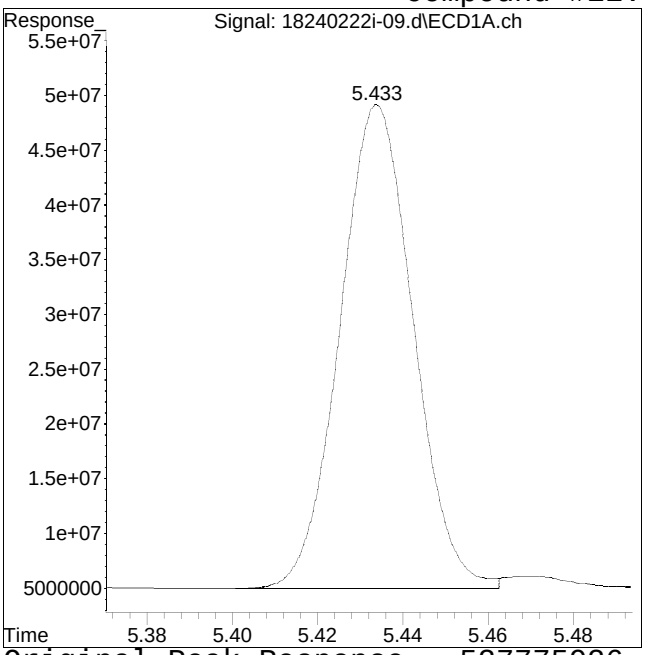


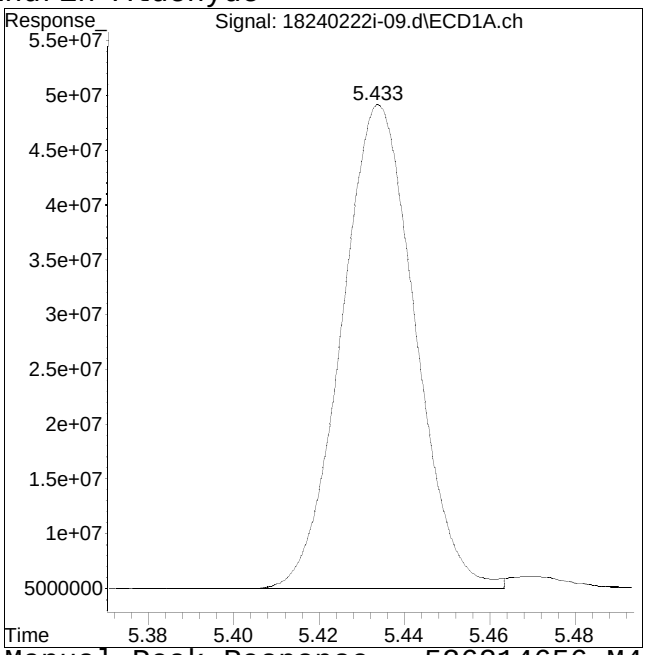
Original Peak Response = 680533362 Manual Peak Response = 673011803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #22: Endrin Aldehyde



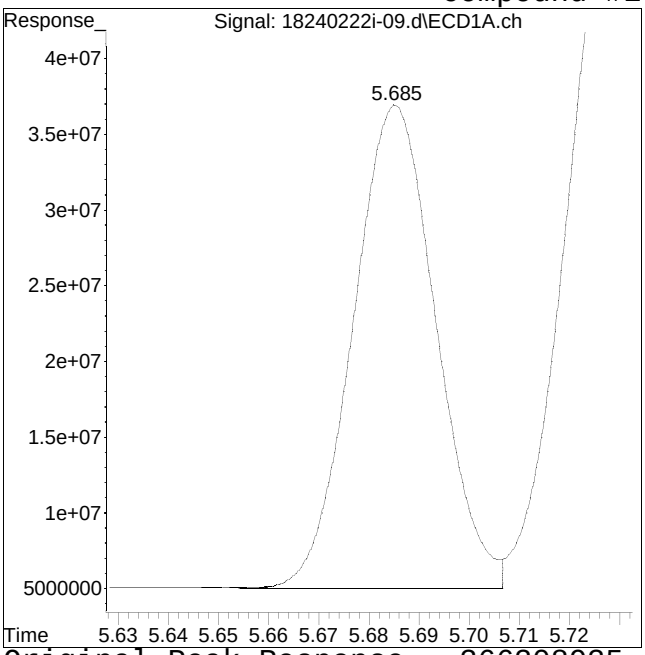


Original Peak Response = 527775926 Manual Peak Response = 526214656 M4
M4 = Poor automated baseline construction.

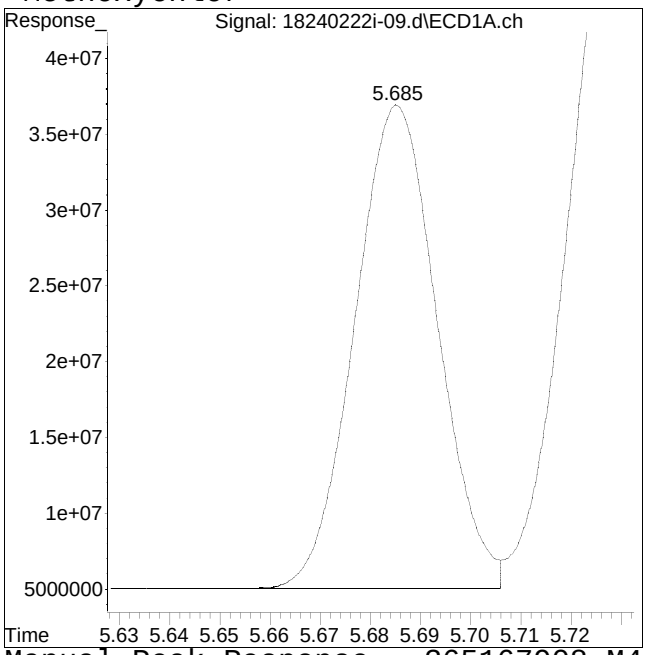
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #23: Methoxychlor



Original Peak Response = 366308935



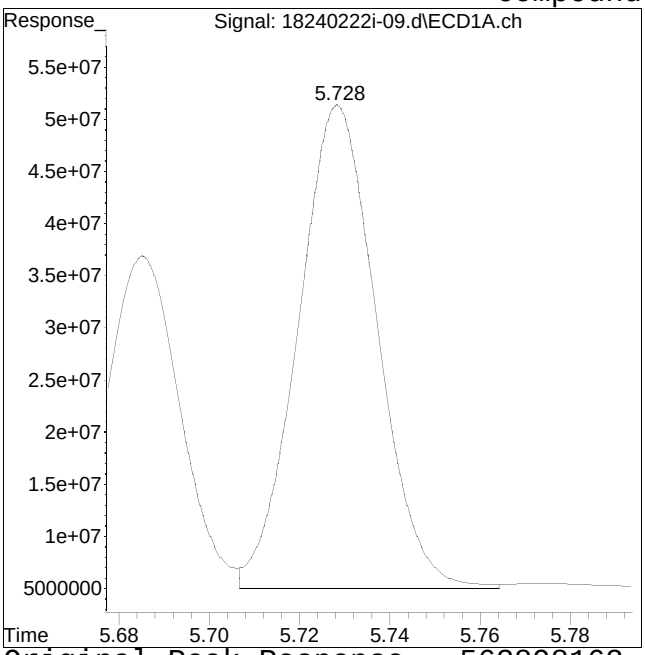
Manual Peak Response = 365167908 M4

M4 = Poor automated baseline construction.

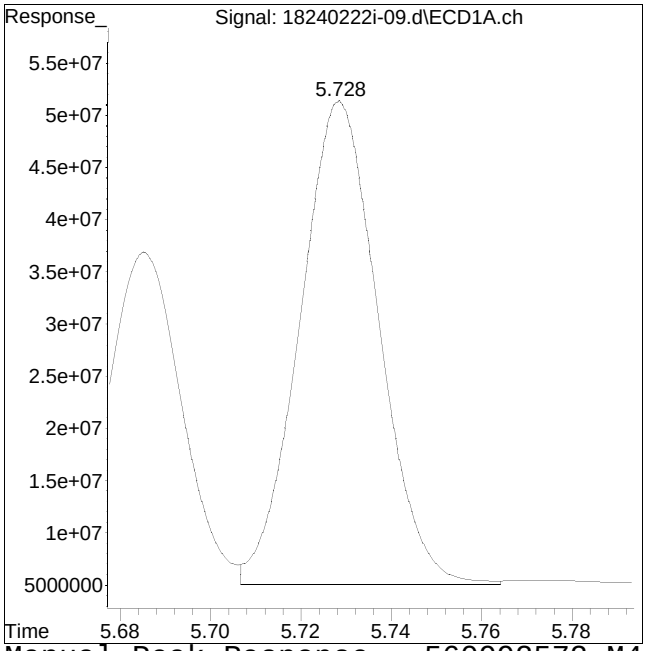
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #24: Mirex



Original Peak Response = 563898162

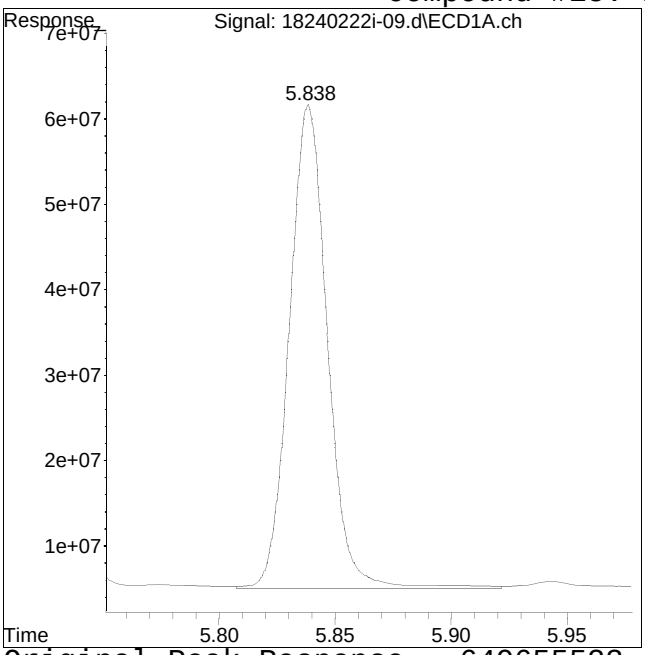


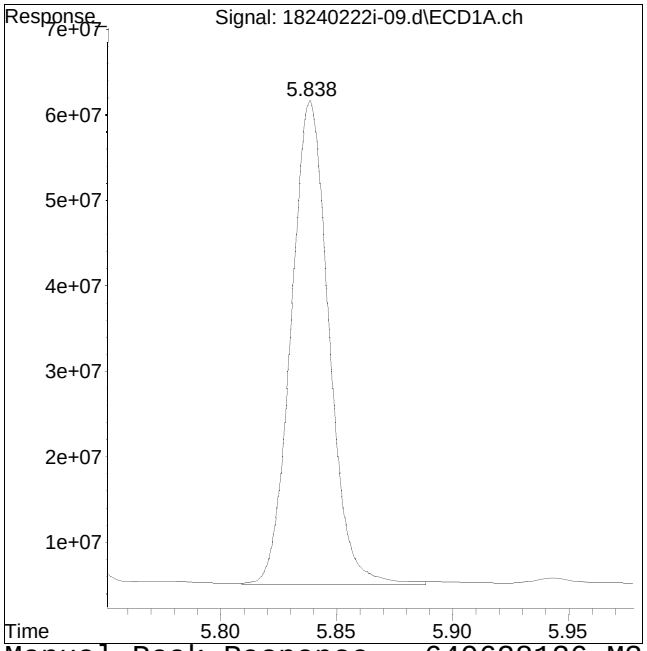
Manual Peak Response = 560992572 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #25: Endosulfan Sulfate



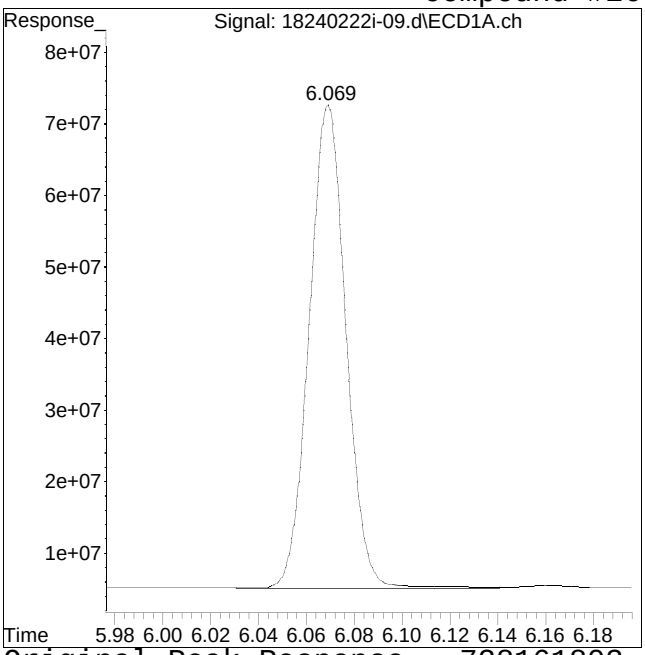


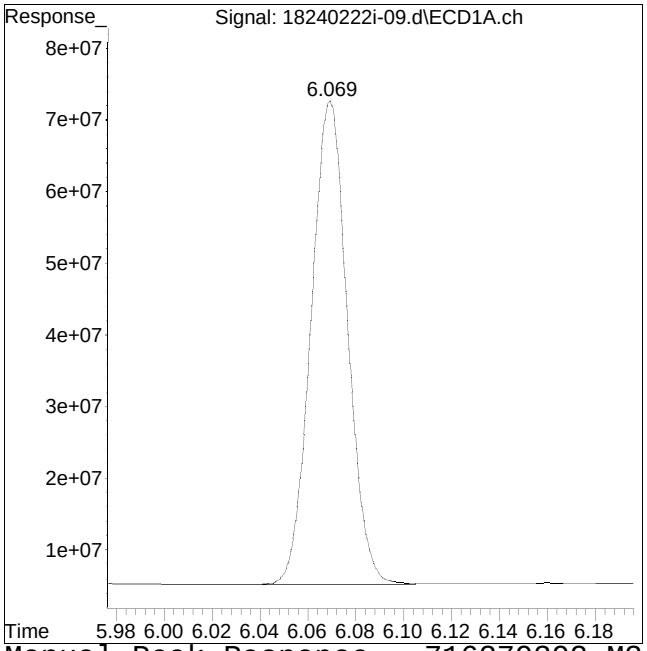
Original Peak Response = 649655523 Manual Peak Response = 640628126 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #26: Endrin Ketone



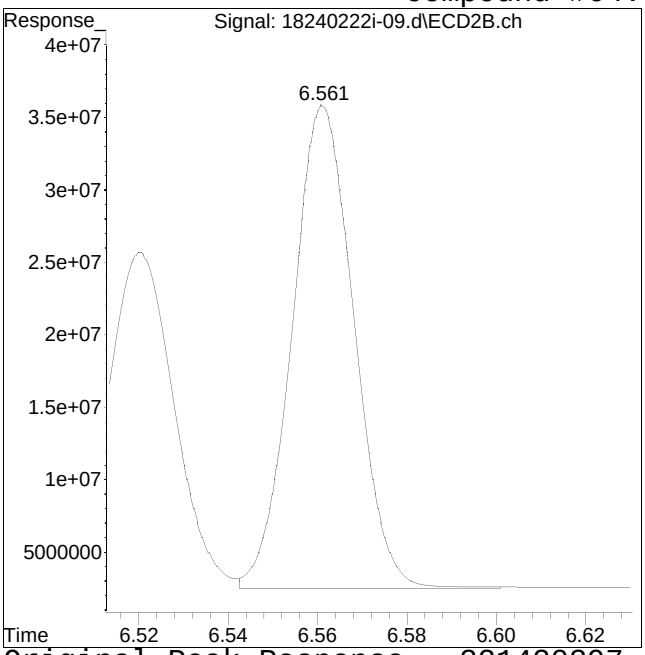


Original Peak Response = 728161803 Manual Peak Response = 716279392 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

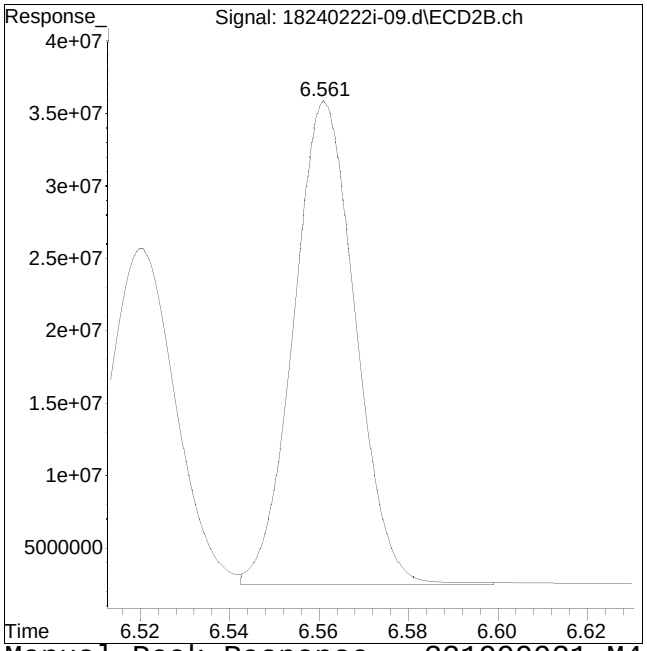
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 321420397

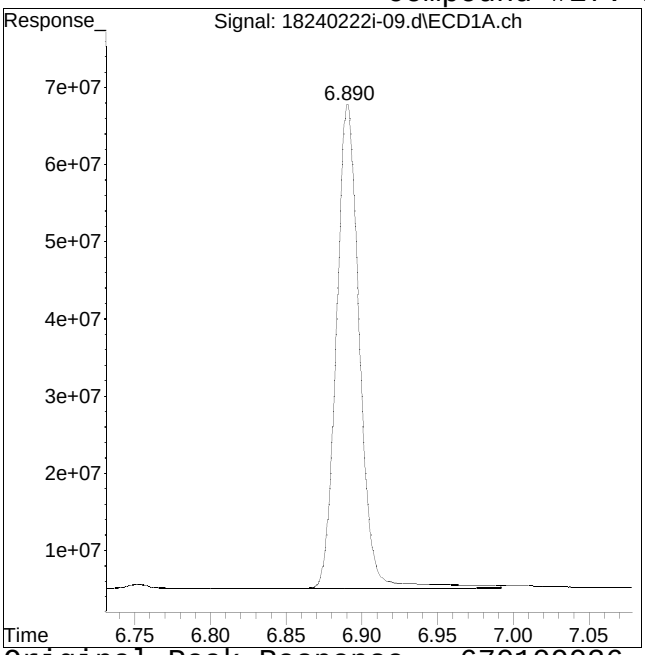


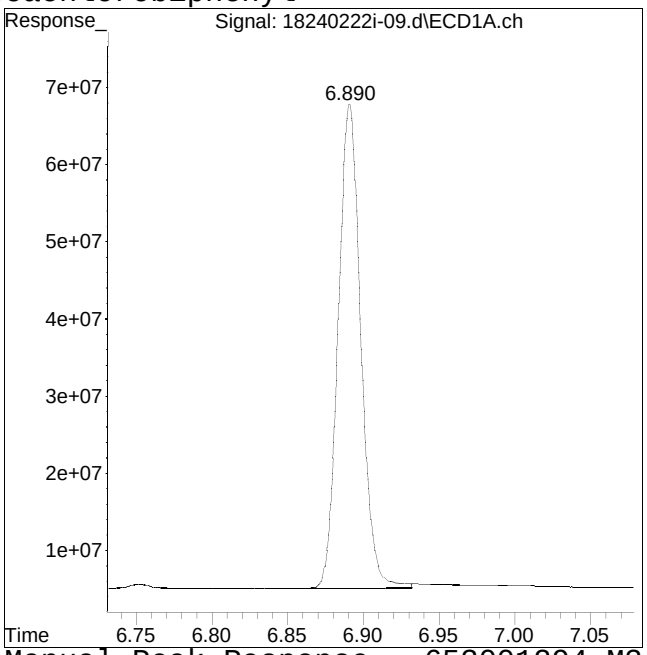
Manual Peak Response = 321999921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #27: Decachlorobiphenyl



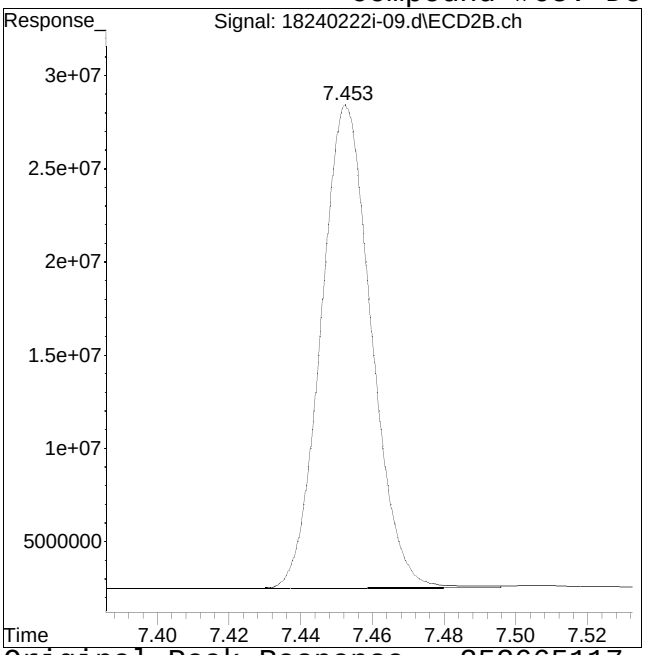


Original Peak Response = 670109936 Manual Peak Response = 653001294 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

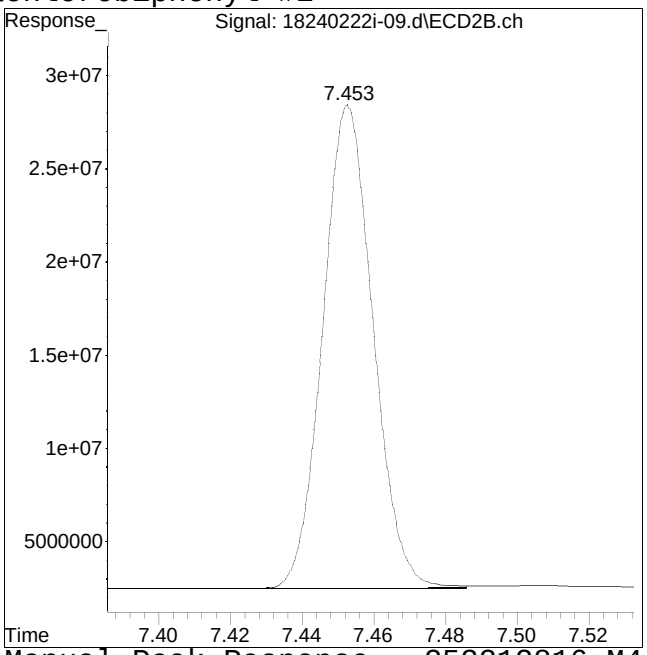
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-09.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:17 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 2/27/2024 2:00 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 252665117



Manual Peak Response = 252212816 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:28 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:15:00 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:09:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	393.1E6	172.2E6	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	1415.8E6	629.5E6	98.668M3	97.758
	Spiked Amount 50.000	Range 30 - 150		Recovery =		197.34%#	195.52%#
27) s	Decachlorobi	6.890	7.452	1298.8E6	505.9E6	95.062M3	95.634
	Spiked Amount 50.000	Range 30 - 150		Recovery =		190.12%#	191.27%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.593	1521.4E6	662.2E6	96.918M3	97.120
4)	alpha-BHC	2.450	2.696	2005.4E6	903.5E6	99.728M3	100.415
5)	gamma-BHC (l	2.668	2.982	1818.0E6	825.4E6	98.803M3	99.698
6)	beta-BHC	2.732	3.052	791.1E6	367.8E6	95.910M3	97.736M3
7)	delta-BHC	2.863	3.313	1846.1E6	846.9E6	99.748M4	100.640
8)	Heptachlor	3.029	3.371	1726.1E6	788.5E6	96.606M4	97.597
9)	Aldrin	3.276	3.681	1619.8E6	734.0E6	98.230M4	99.382M4
10)	Alachlor	3.415	3.585	252.9E6	112.8E6	91.141M4	93.436M3
11)	Chlorpyrifos	3.508	3.934	711.7E6	340.0E6	91.028M4	93.075
12)	Heptachlor E	3.831	4.288	1482.9E6	689.2E6	96.933M3	99.326
13)	gamma-Chlord	3.956	4.505	1364.1E6	625.7E6	97.051M3	99.636M4
14)	alpha-Chlord	4.091	4.677	1523.6E6	693.2E6	95.943M3	98.499
15)	4,4'-DDE	4.196	4.902	1509.0E6	696.5E6	97.818M4	100.191
16)	Endosulfan I	4.225	4.738	1406.5E6	649.6E6	95.927M4	98.187
17)	Dieldrin	4.487	5.058	1499.4E6	682.3E6	96.945M4	99.449
18)	Endrin	4.741	5.376	1535.8E6	687.7E6	96.266M4	99.848M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:28 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:15:00 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:09:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.867	5.521	1225.1E6	563.4E6	97.706M4	100.026
20)	Endosulfan I	4.996	5.588	1321.2E6	602.2E6	95.570M4	97.511M4
21)	4,4'-DDT	5.175	5.810	1382.8E6	639.9E6	98.205M3	98.551M4
22)	Endrin Aldeh	5.434	5.902	1105.5E6	499.2E6	100.414M3	102.728M4
23)	Methoxychlor	5.685	6.402	709.5E6	336.9E6	92.868M4	95.206M4
24)	Mirex	5.729	6.520	1094.1E6	492.2E6	93.216M4	95.752
25)	Endosulfan S	5.838	6.140	1280.4E6	565.8E6	95.528M4	97.660
26)	Endrin Keton	6.069	6.561	1430.4E6	655.0E6	95.450M4	96.983M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:28 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:15:00 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:09:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

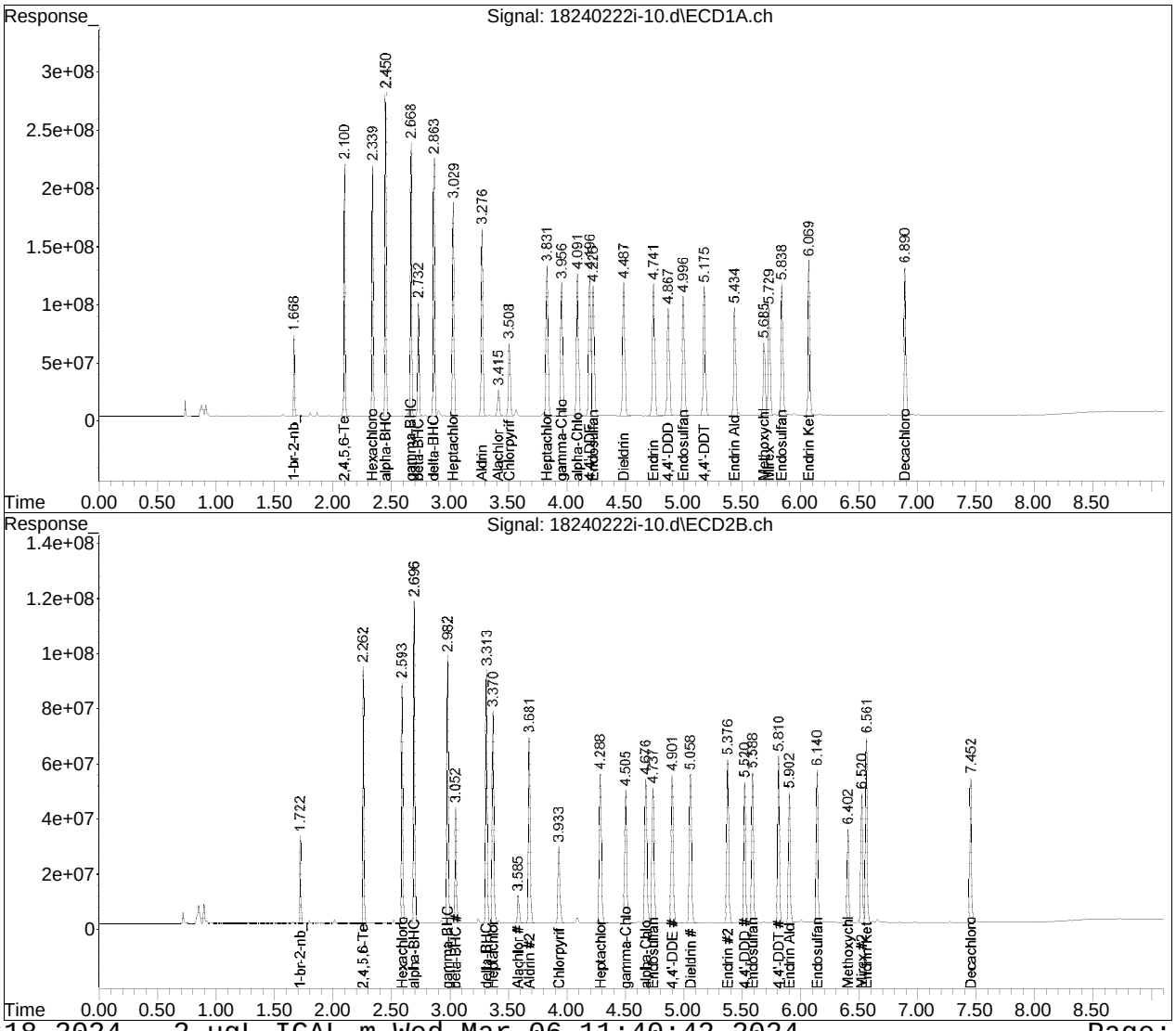
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:28 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:15:00 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:09:32 2024
Response via : Initial Calibration
Integrator: ChemStation

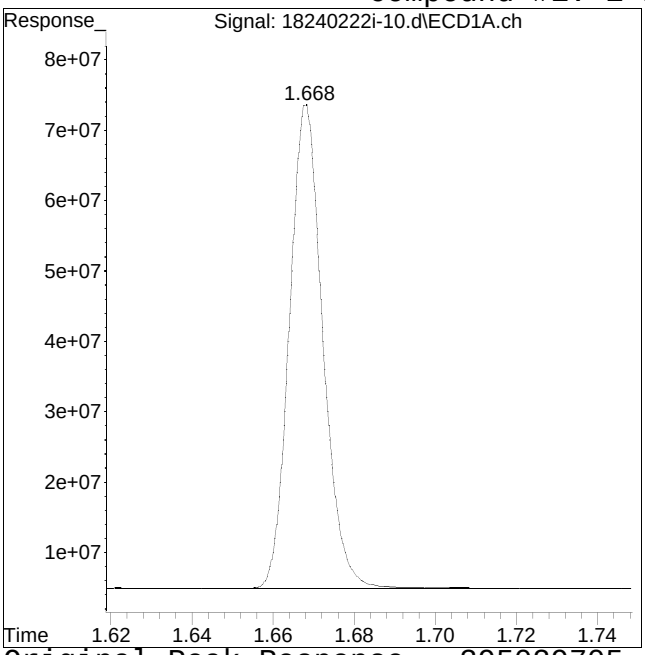
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

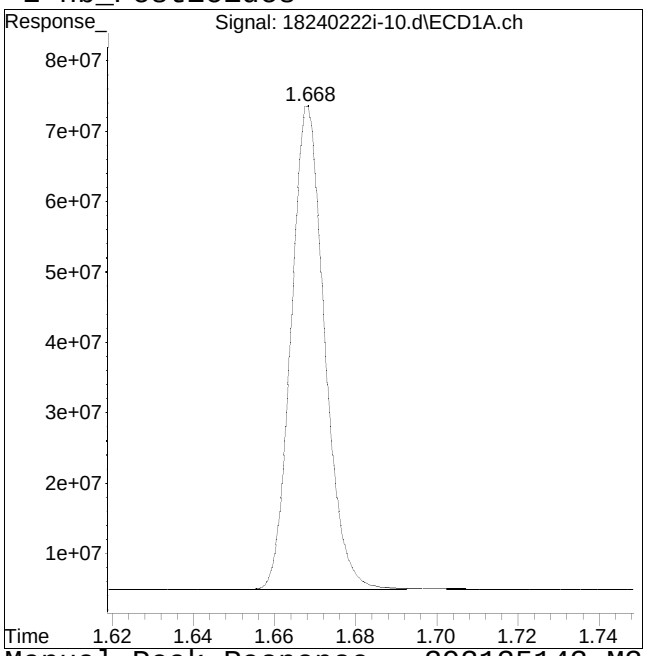


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #1: 1-br-2-nb_Pesticides



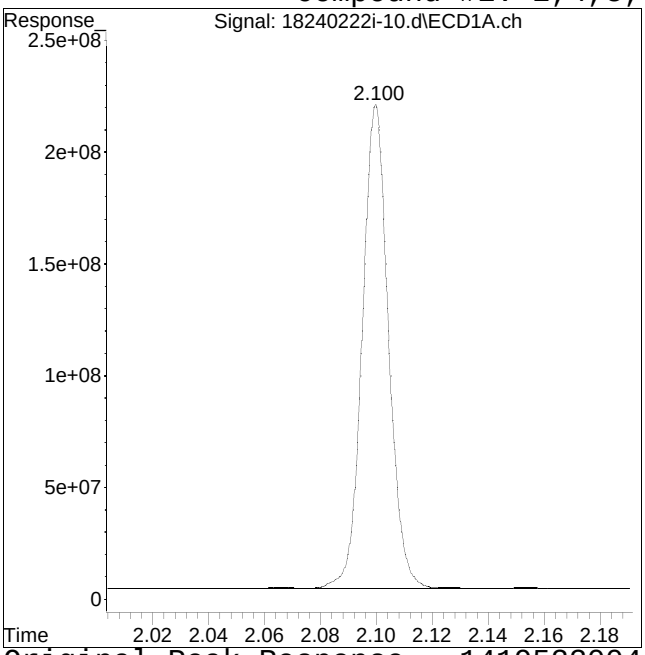


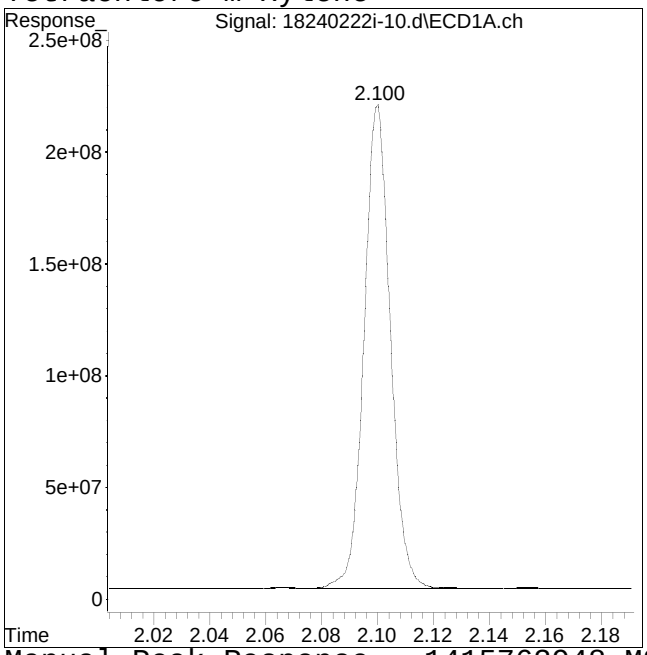
Original Peak Response = 395029705 Manual Peak Response = 393135143 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



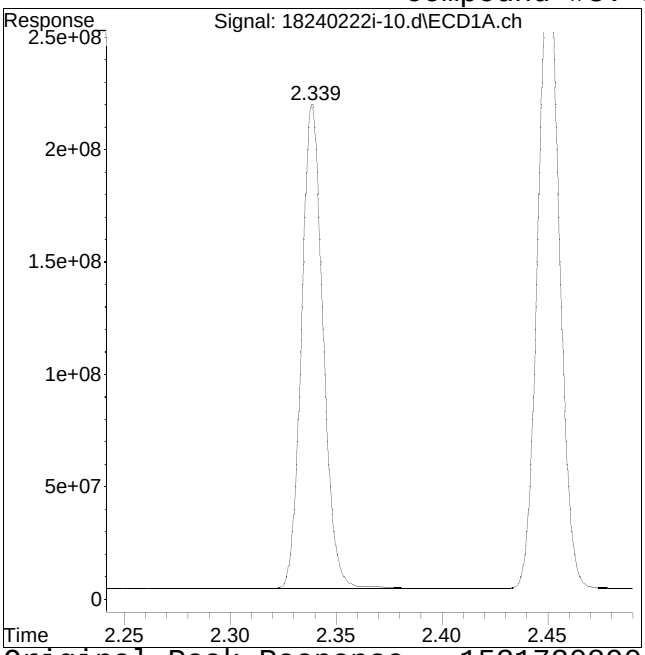


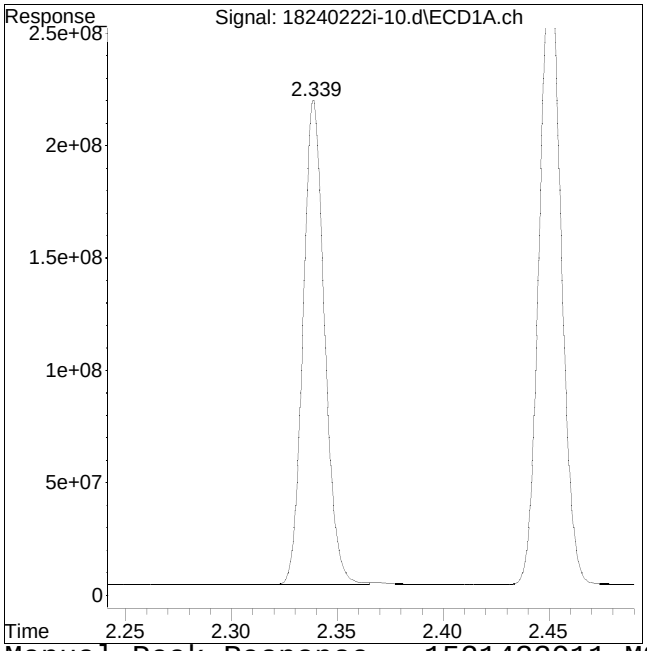
Original Peak Response = 1419523004 Manual Peak Response = 1415763948 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #3: Hexachlorobenzene



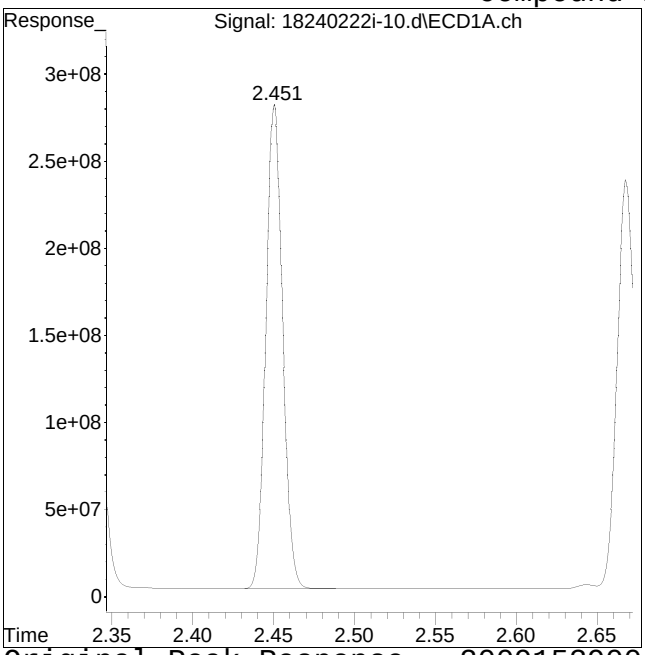


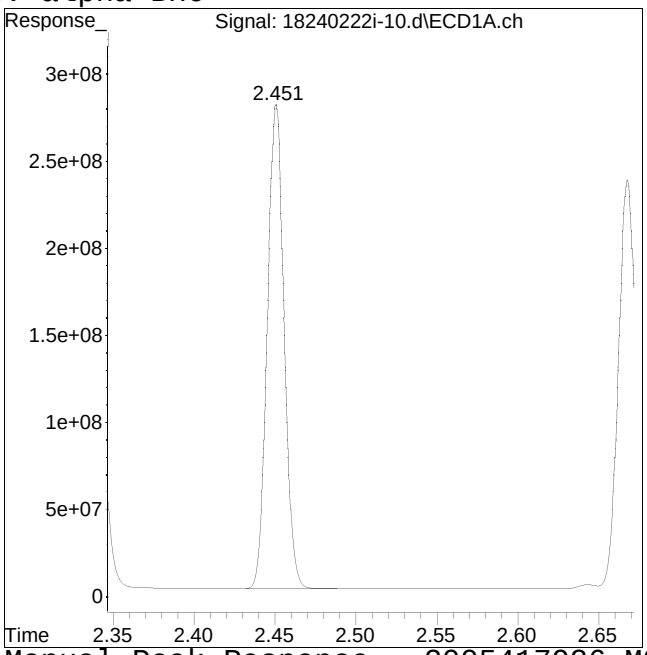
Original Peak Response = 1531720890 Manual Peak Response = 1521433911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #4: alpha-BHC



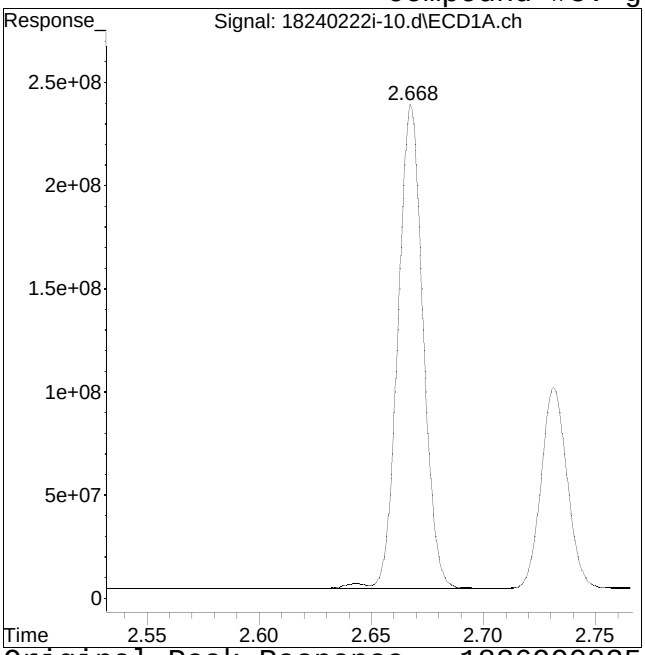


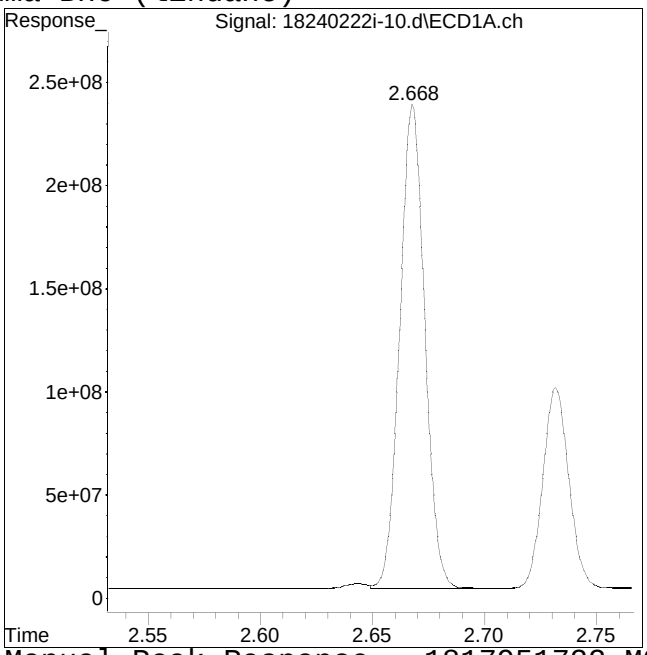
Original Peak Response = 2009153900 Manual Peak Response = 2005417926 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #5: gamma-BHC (lindane)



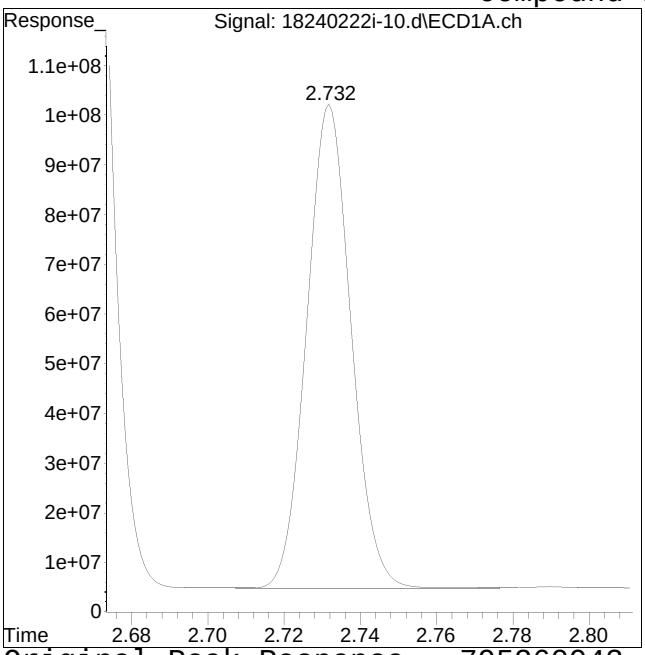


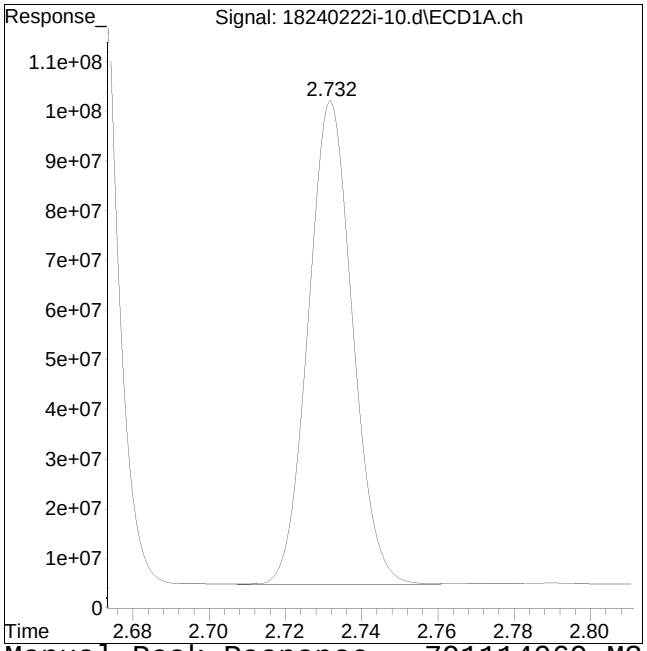
Original Peak Response = 1836999825 Manual Peak Response = 1817951722 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #6: beta-BHC



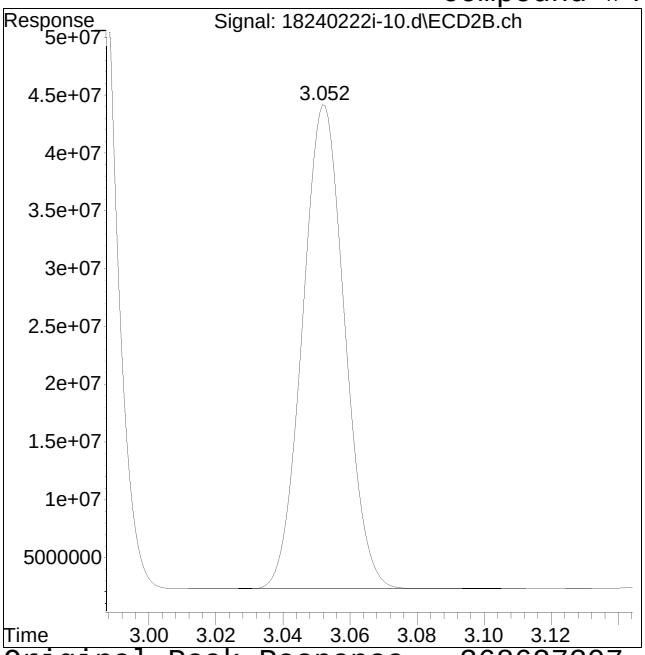


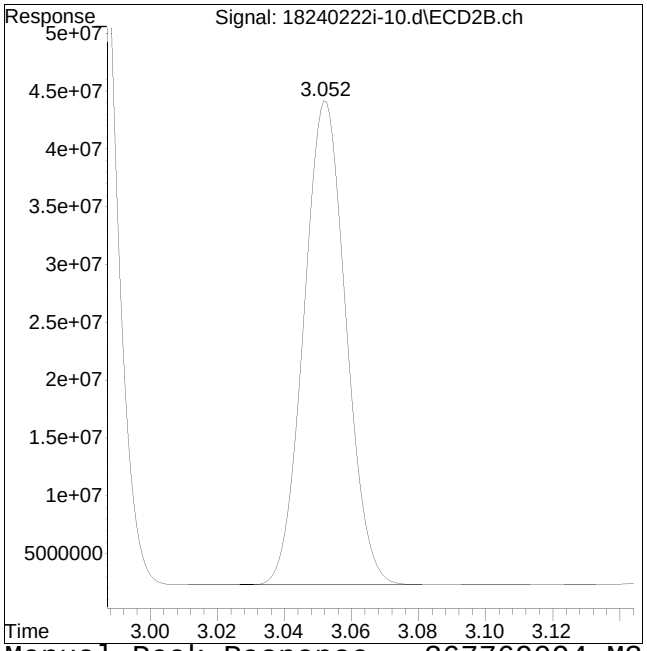
Original Peak Response = 795260943 Manual Peak Response = 791114069 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #44: beta-BHC #2



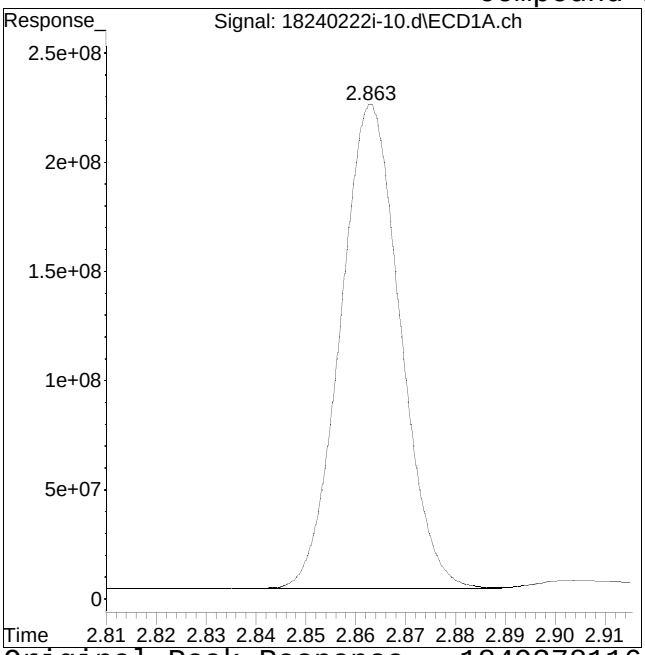


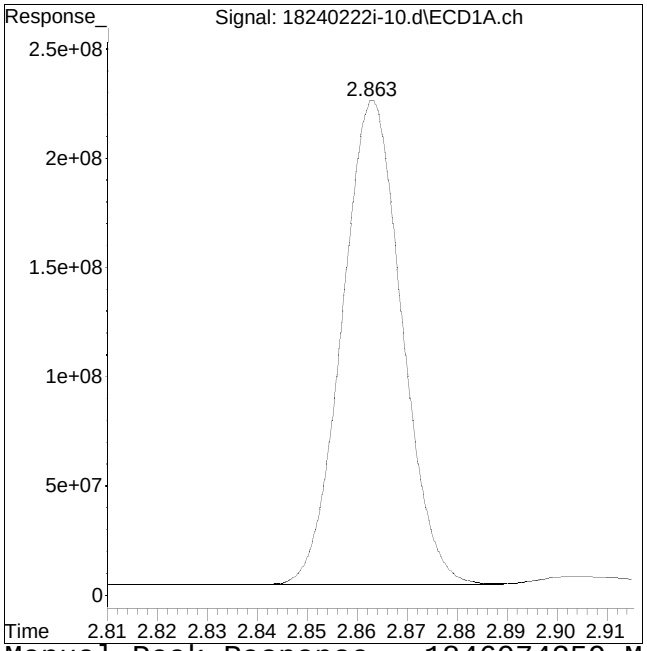
Original Peak Response = 368627307 Manual Peak Response = 367769094 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #7: delta-BHC



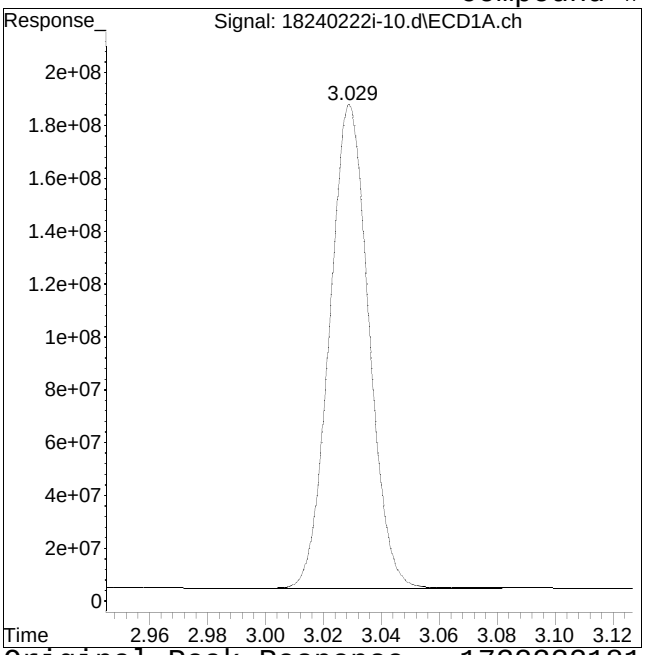


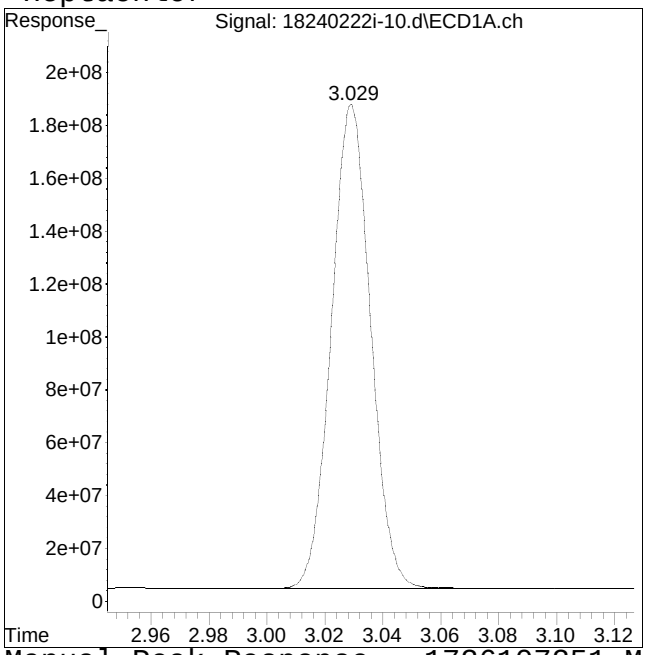
Original Peak Response = 1849378116 Manual Peak Response = 1846074359 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #8: Heptachlor



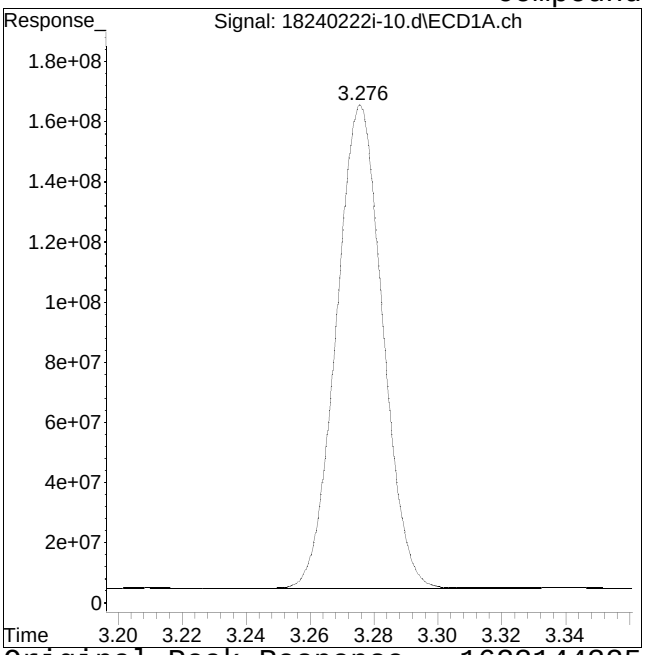


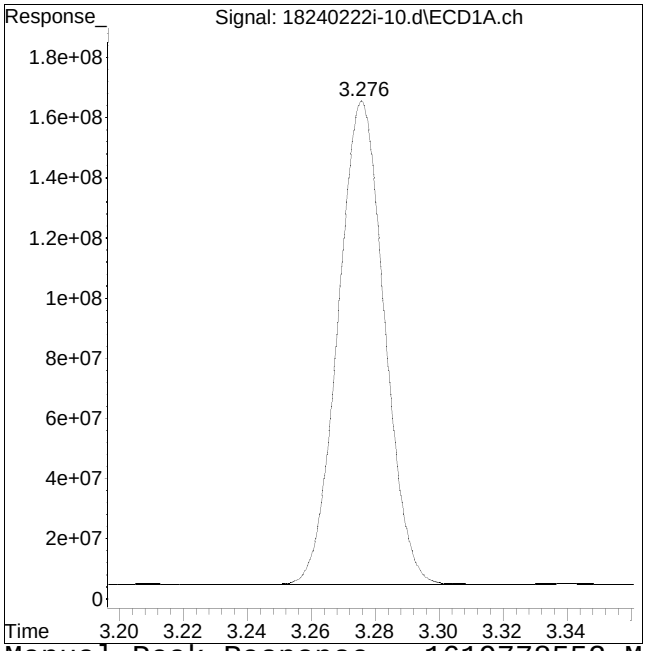
Original Peak Response = 1732333181 Manual Peak Response = 1726107251 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #9: Aldrin



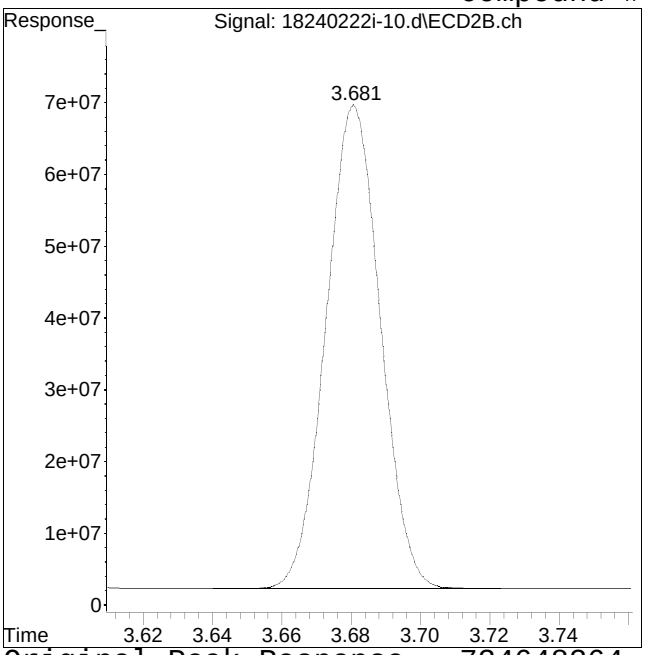


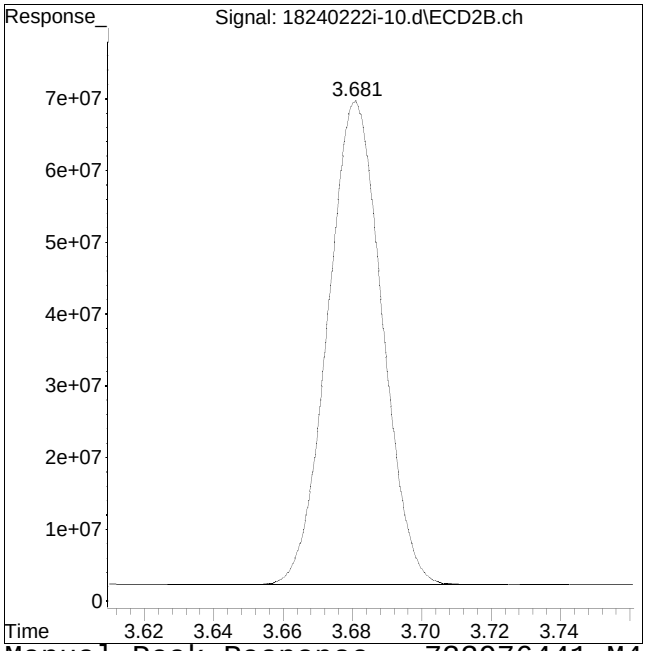
Original Peak Response = 1623144325 Manual Peak Response = 1619778552 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #47: Aldrin #2



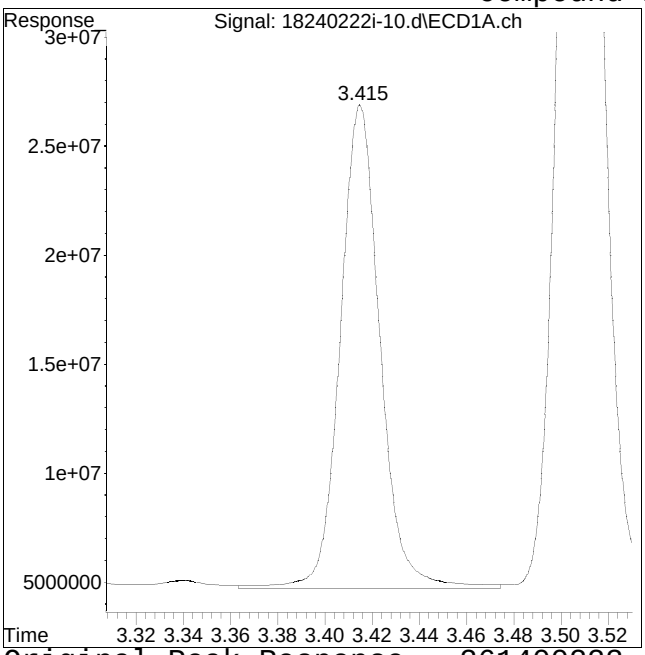


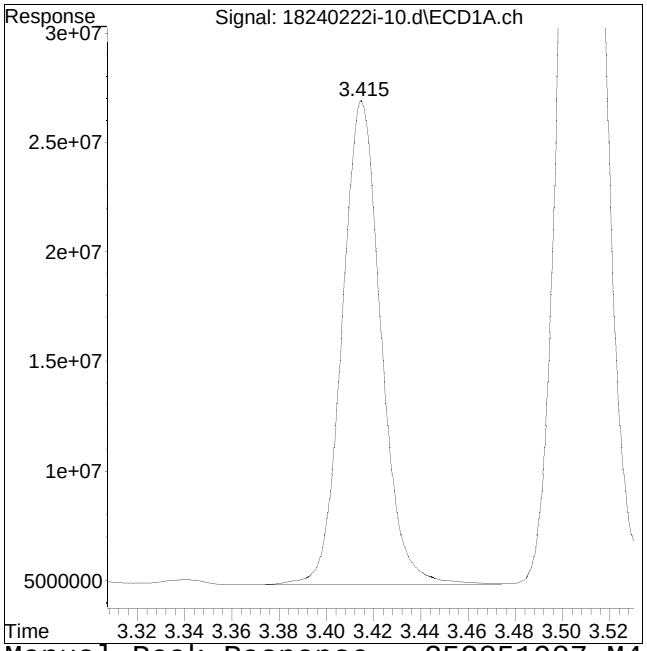
Original Peak Response = 734648364 Manual Peak Response = 733976441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #10: Alachlor



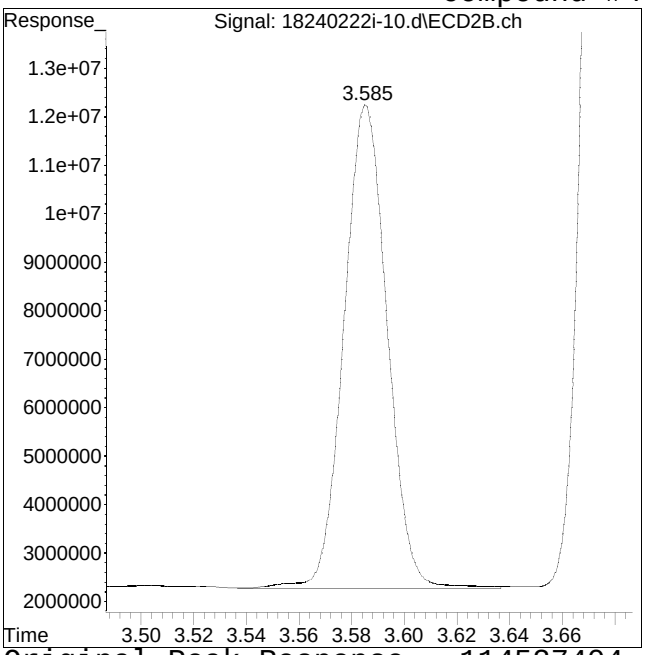


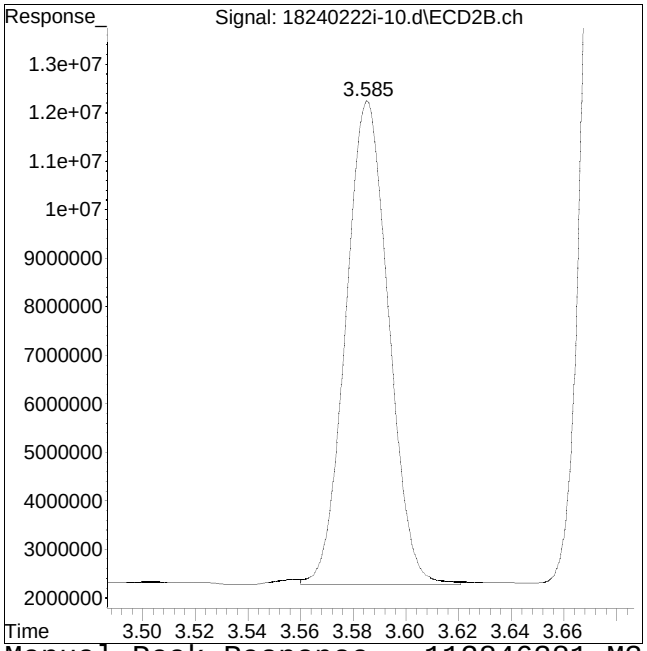
Original Peak Response = 261400223 Manual Peak Response = 252851987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #48: Alachlor #2



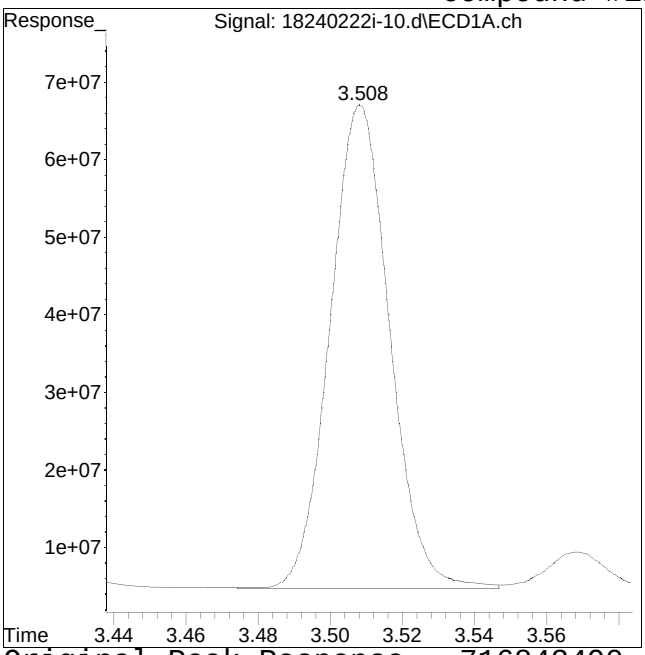


Original Peak Response = 114527404 Manual Peak Response = 112846381 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

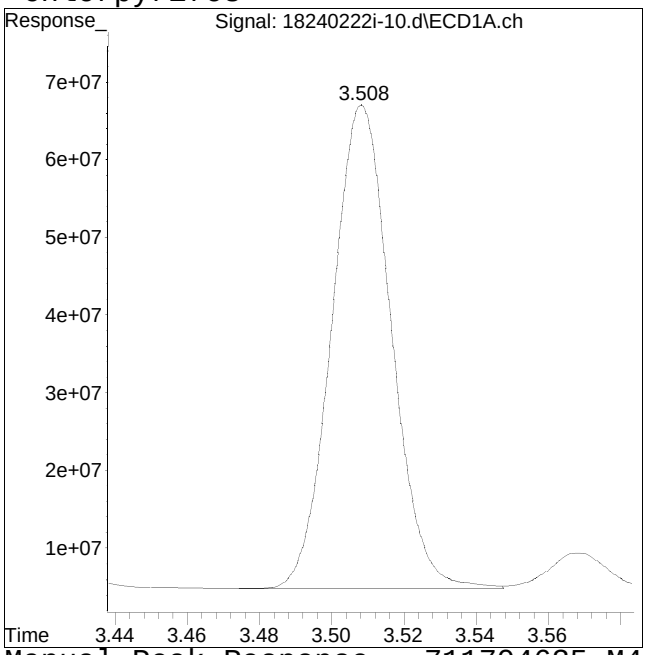
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #11: Chlorpyrifos



Original Peak Response = 716842490



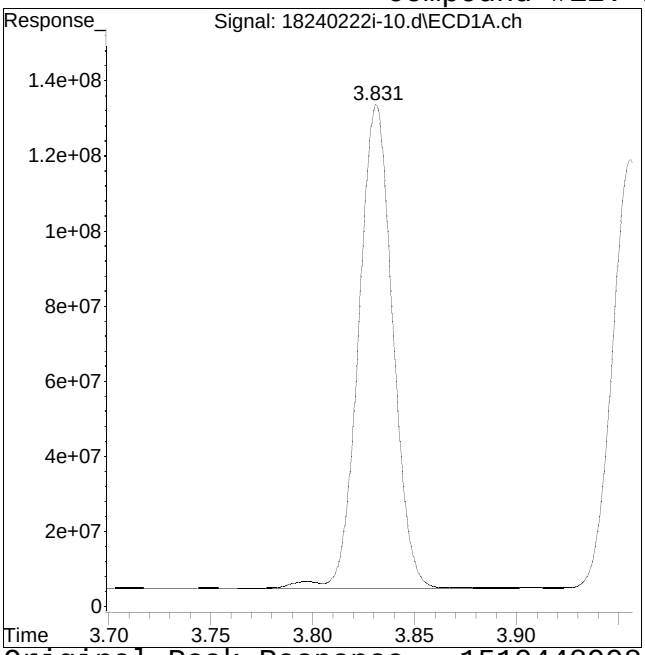
Manual Peak Response = 711704635 M4

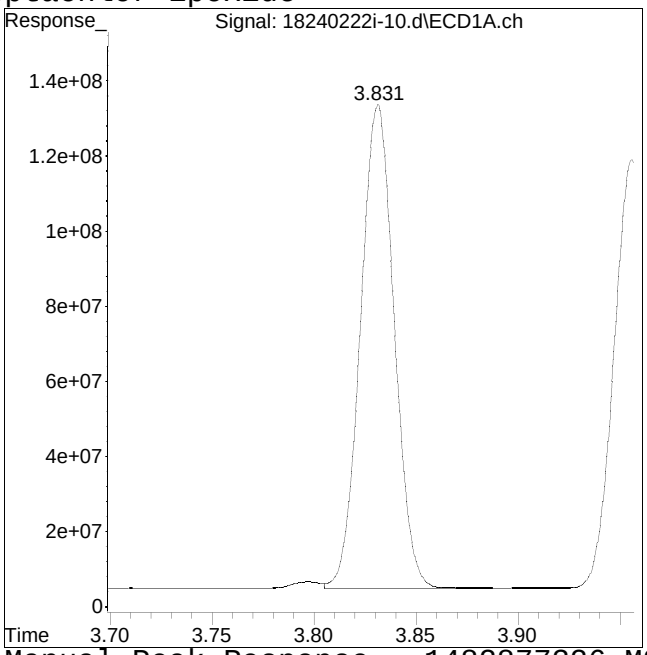
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #12: Heptachlor Epoxide



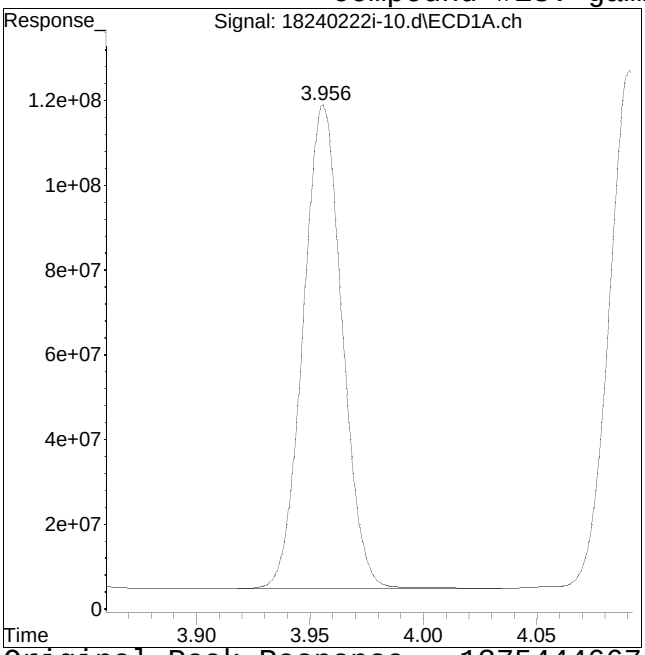


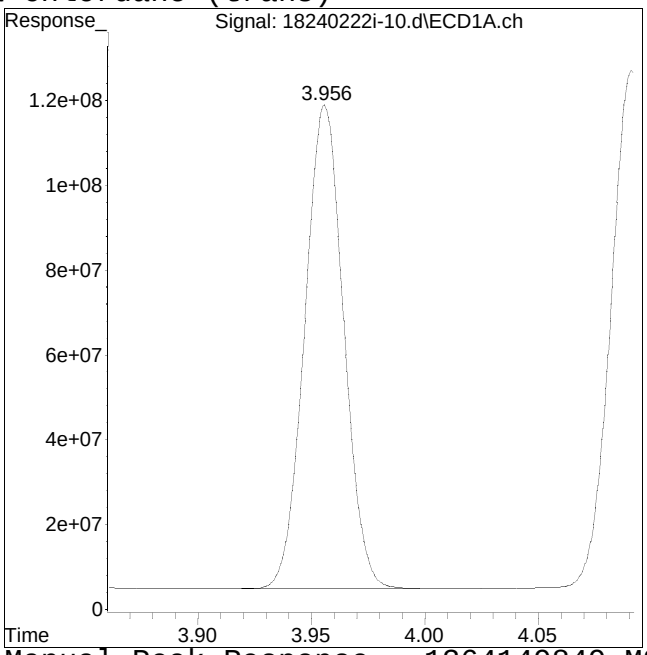
Original Peak Response = 1510448998 Manual Peak Response = 1482877326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #13: gamma-Chlordane (trans)



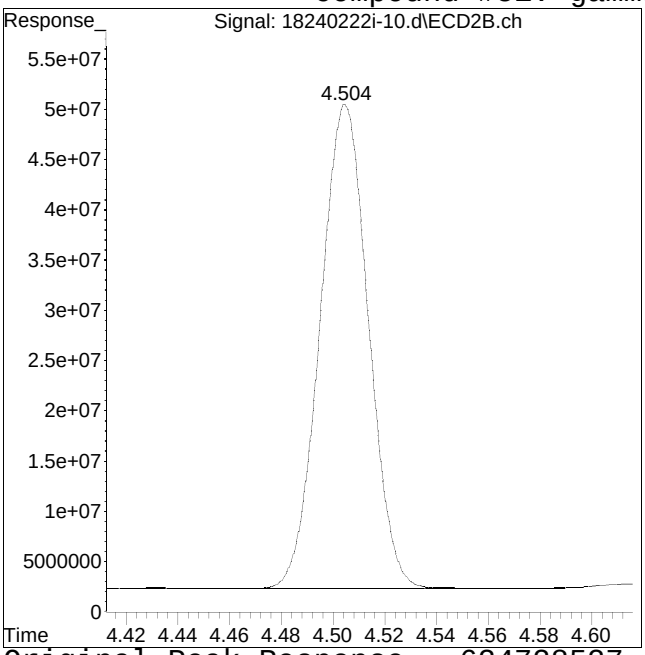


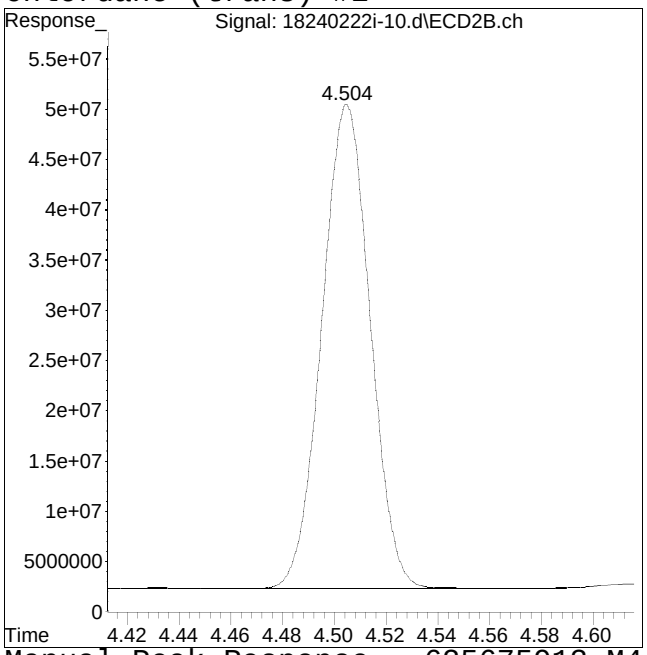
Original Peak Response = 1375444667 Manual Peak Response = 1364149849 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #51: gamma-Chlordane (trans) #2



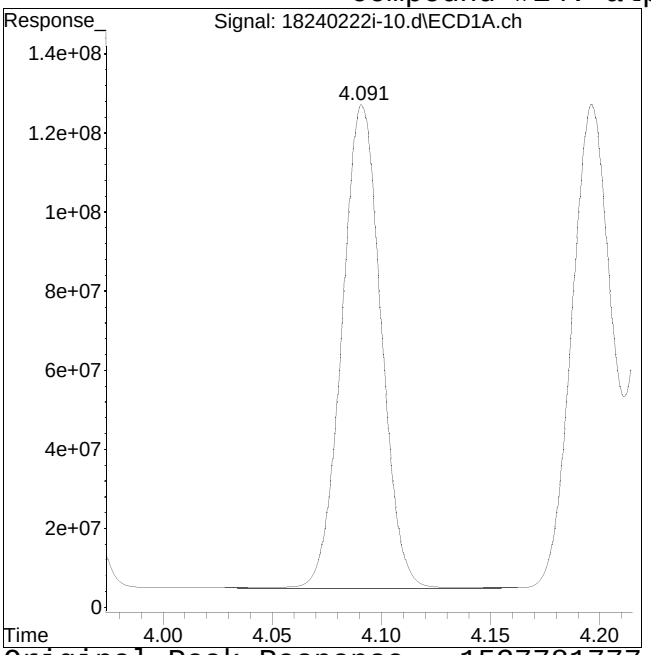


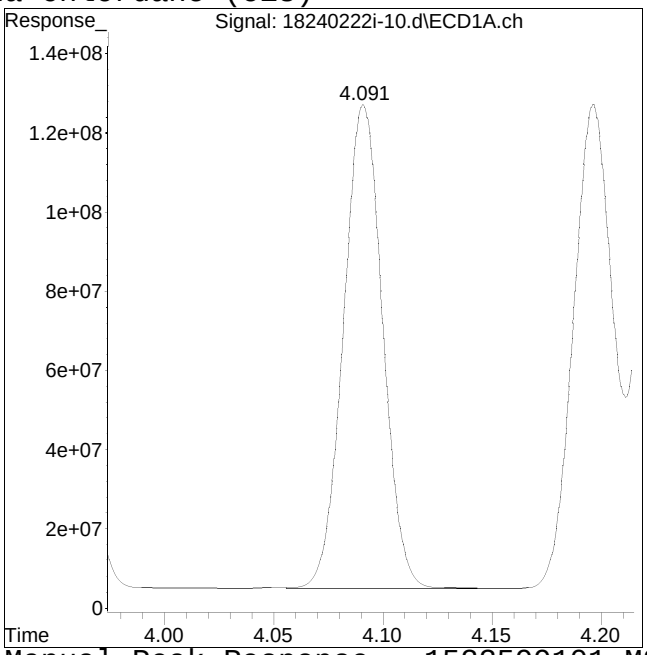
Original Peak Response = 624728527 Manual Peak Response = 625675913 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #14: alpha-Chlordane (cis)



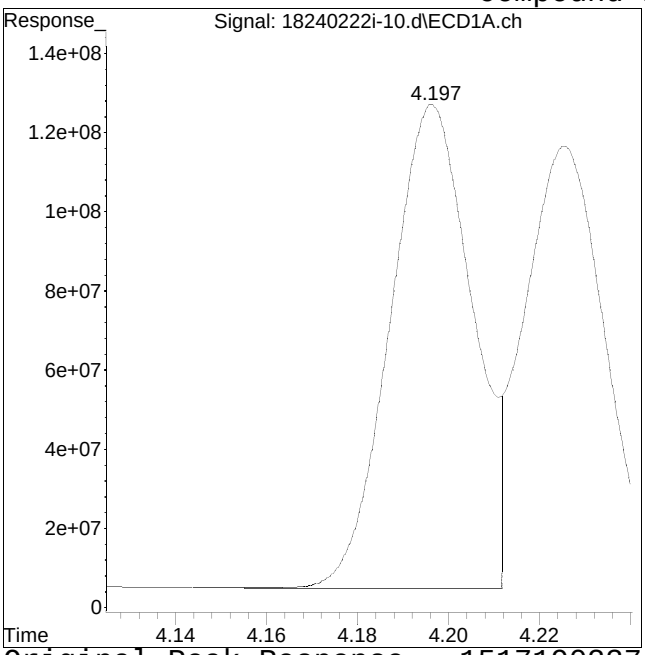


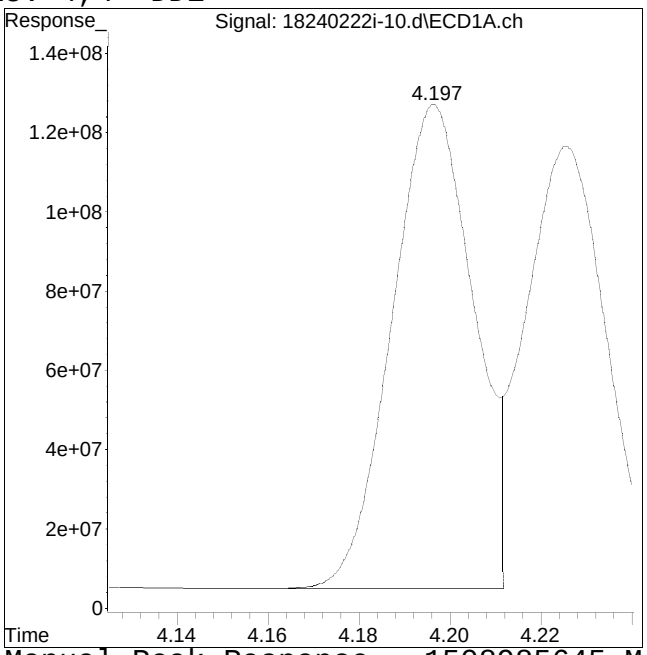
Original Peak Response = 1537781777 Manual Peak Response = 1523599101 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #15: 4,4'-DDE



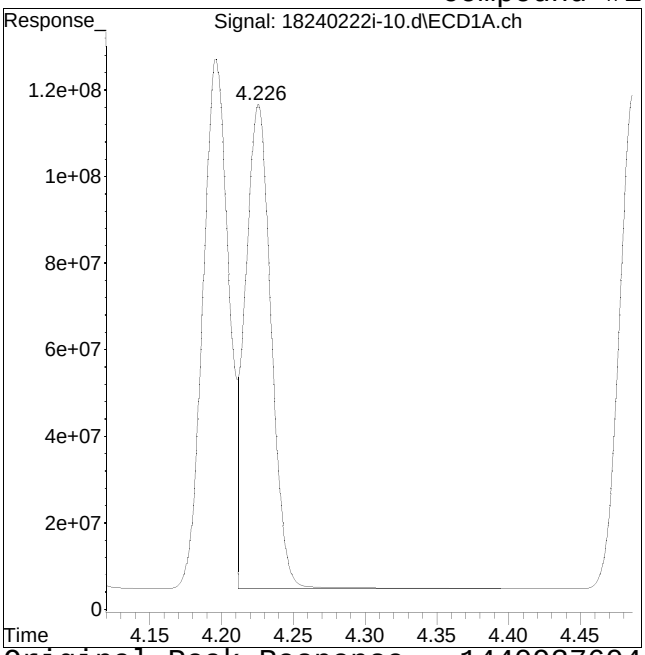


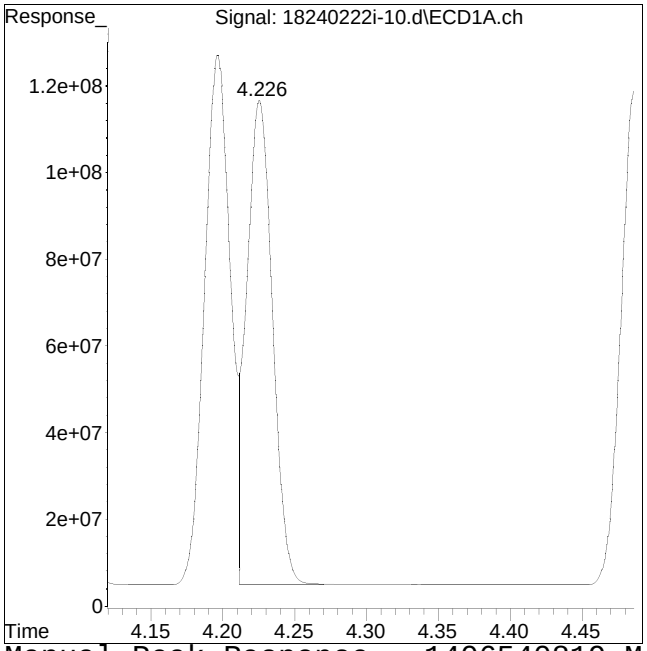
Original Peak Response = 1517190237 Manual Peak Response = 1508985645 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #16: Endosulfan I



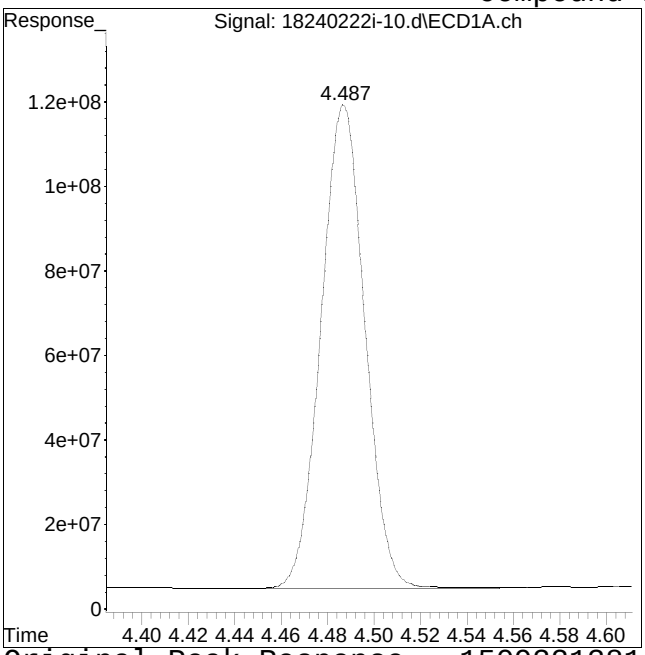


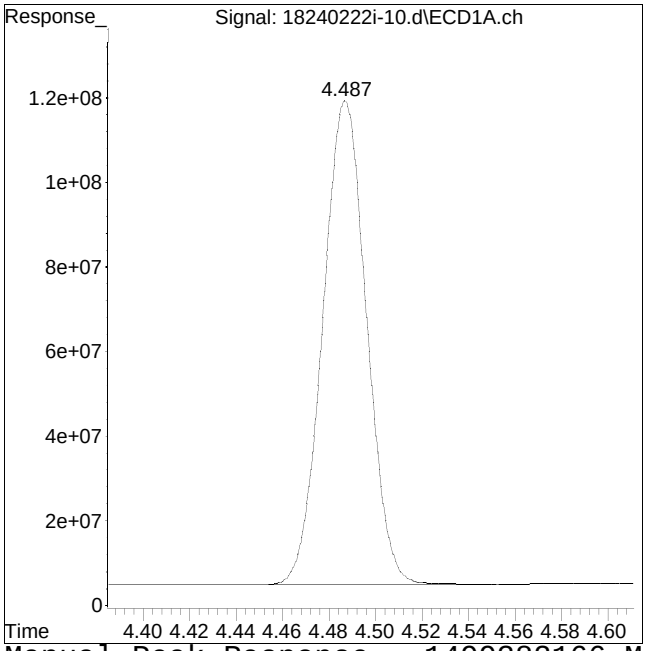
Original Peak Response = 1440937604 Manual Peak Response = 1406540819 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #17: Dieldrin



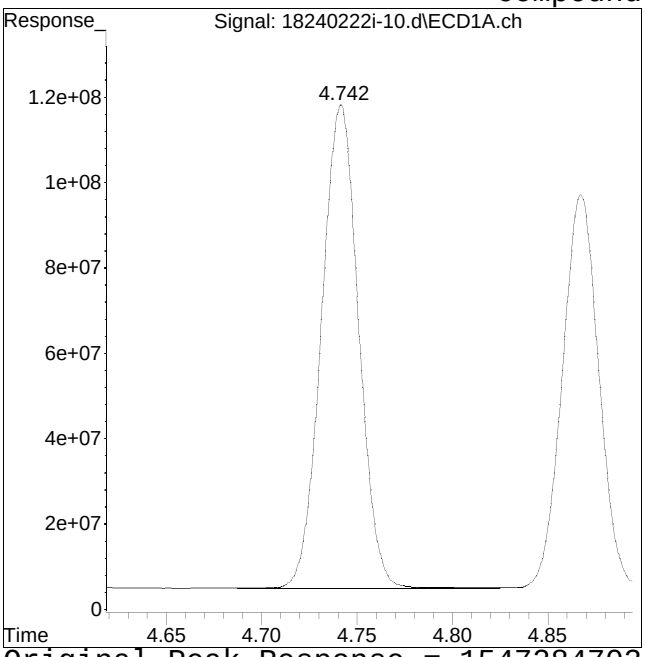


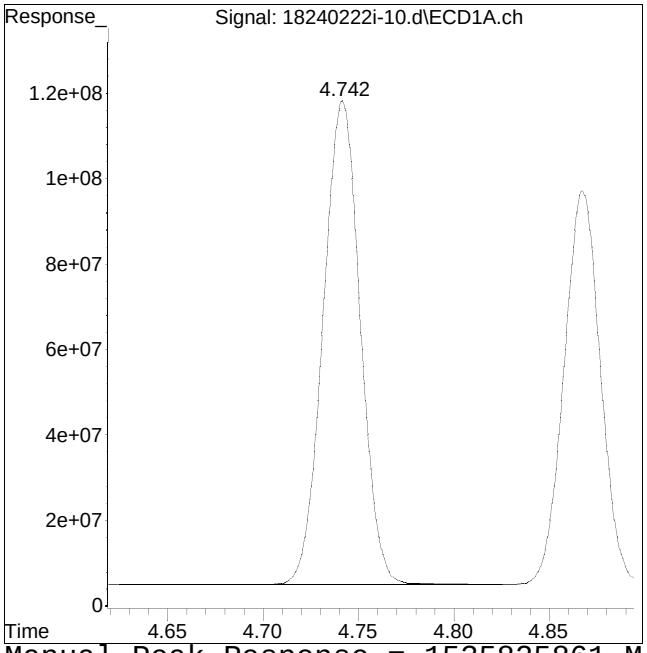
Original Peak Response = 1509321381 Manual Peak Response = 1499382166 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #18: Endrin



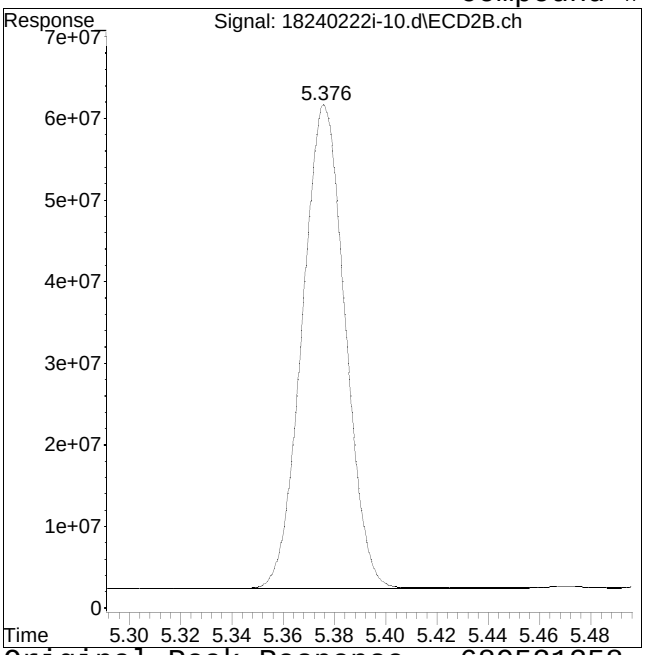


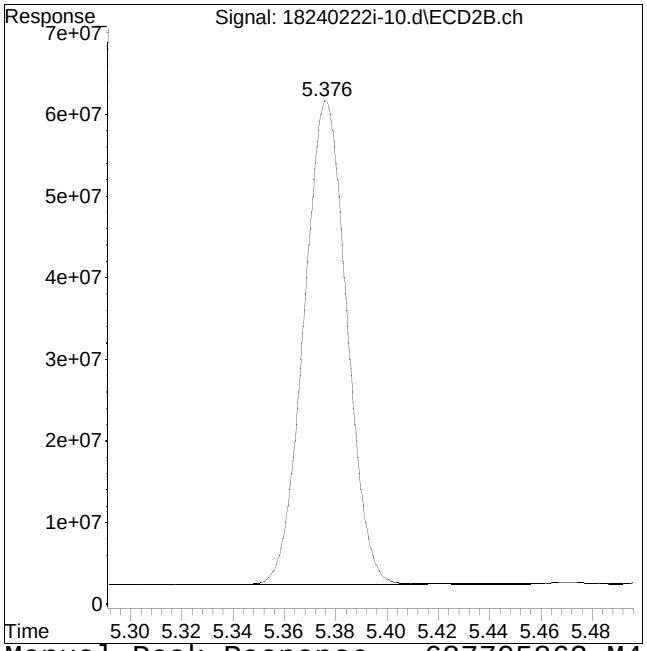
Original Peak Response = 1547284703 Manual Peak Response = 1535825861 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #56: Endrin #2



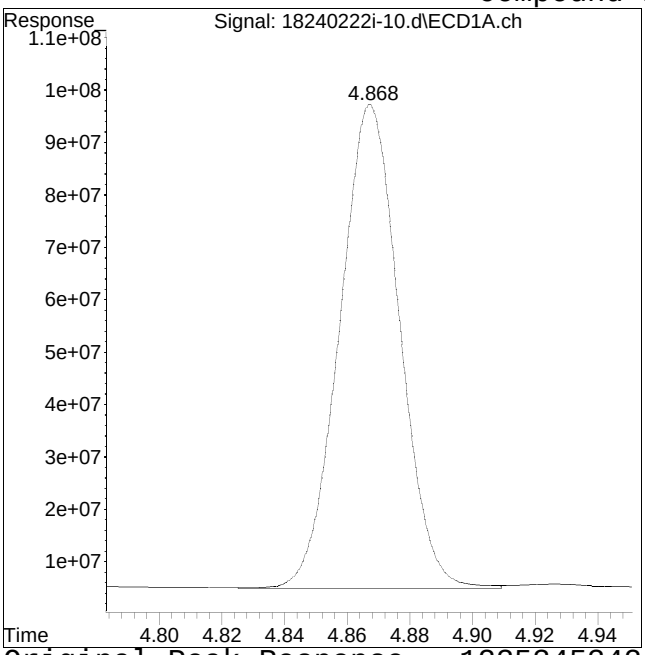


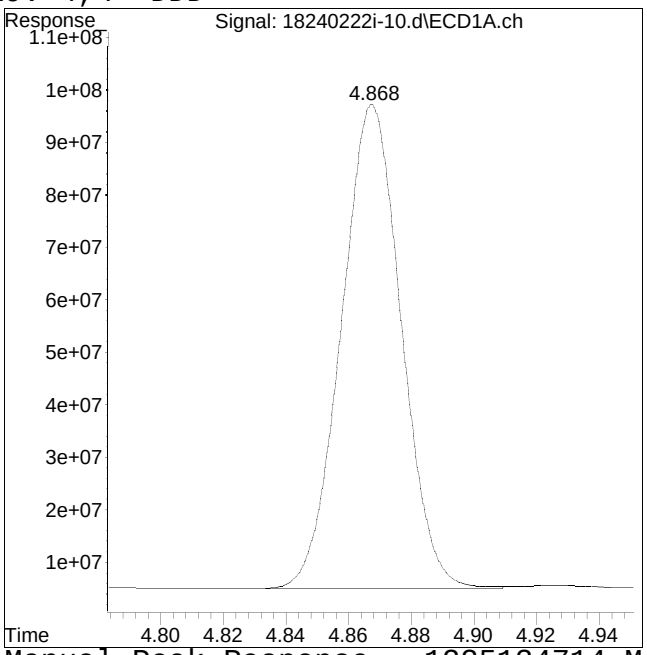
Original Peak Response = 689521358 Manual Peak Response = 687705863 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #19: 4,4'-DDD



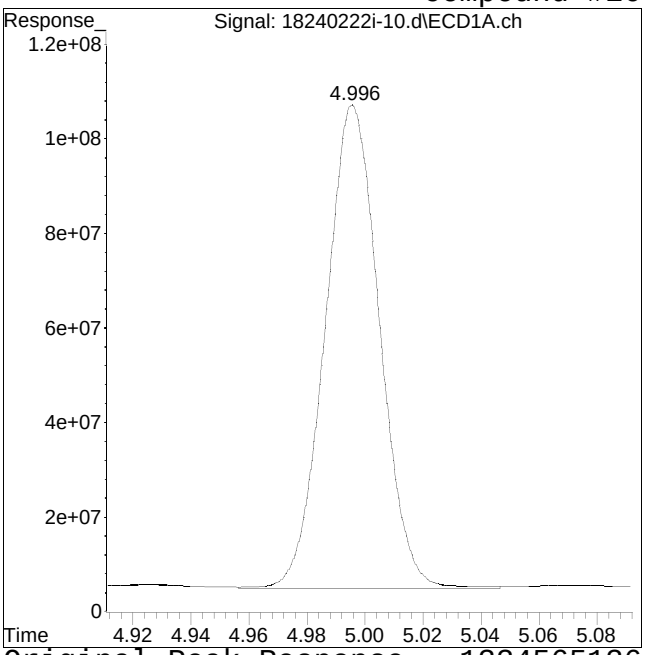


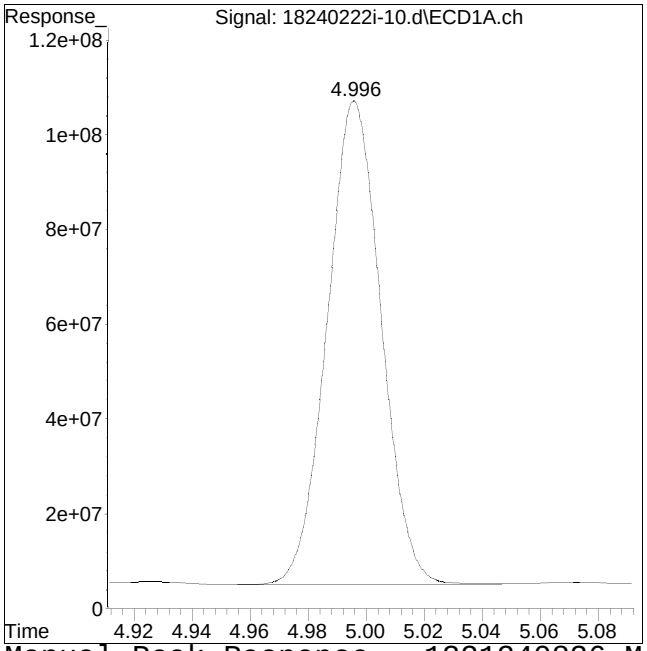
Original Peak Response = 1235345342 Manual Peak Response = 1225134714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #20: Endosulfan II



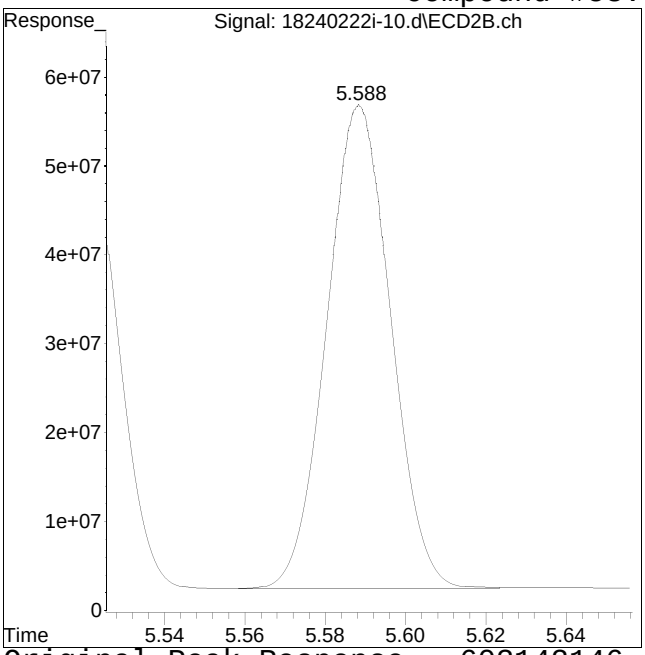


Original Peak Response = 1334565136 Manual Peak Response = 1321240836 M4
M4 = Poor automated baseline construction.

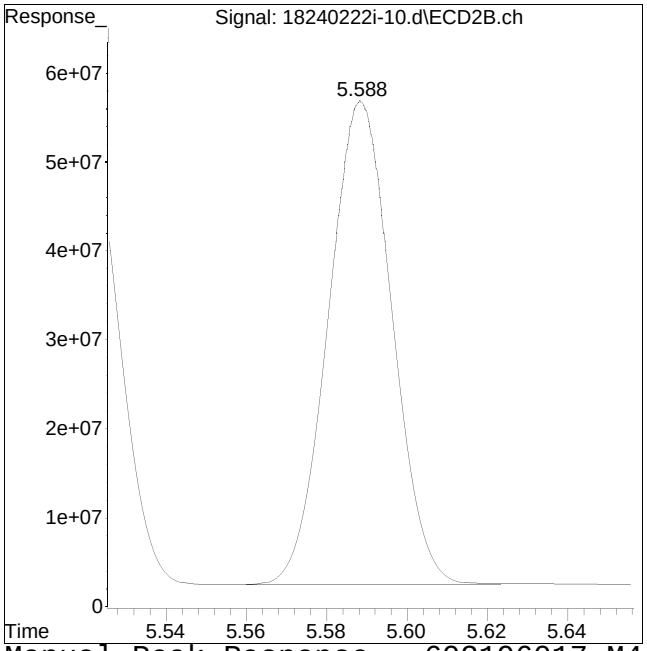
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #58: Endosulfan II #2



Original Peak Response = 603142146



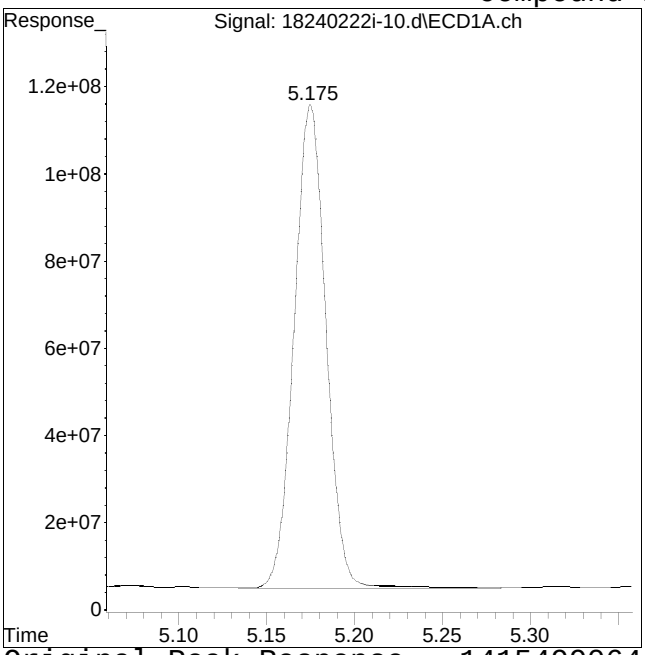
Manual Peak Response = 602196017 M4

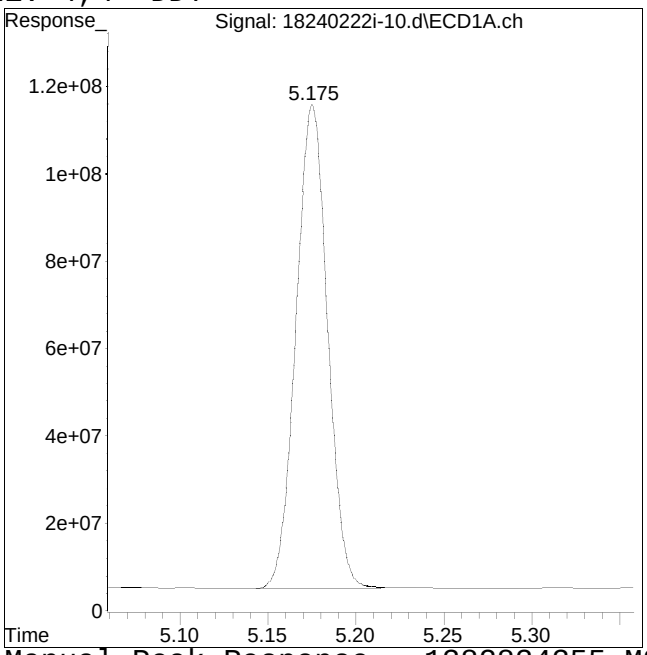
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #21: 4,4'-DDT



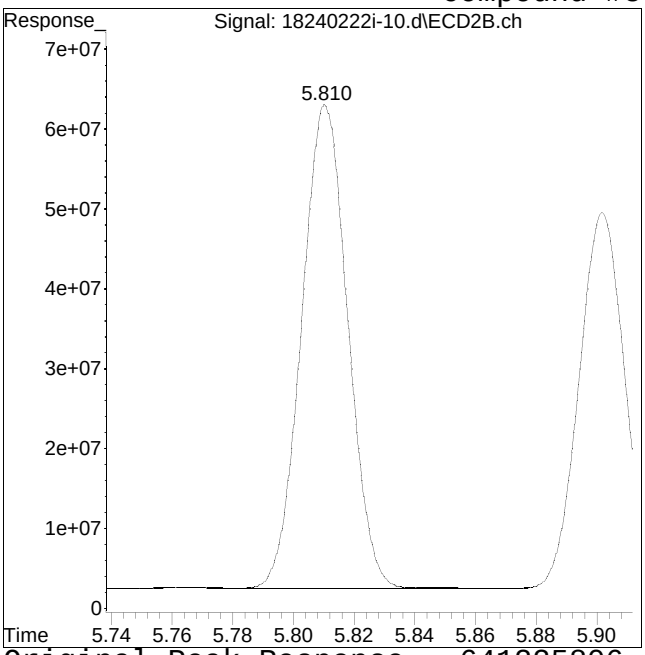


Original Peak Response = 1415499064 Manual Peak Response = 1382834355 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

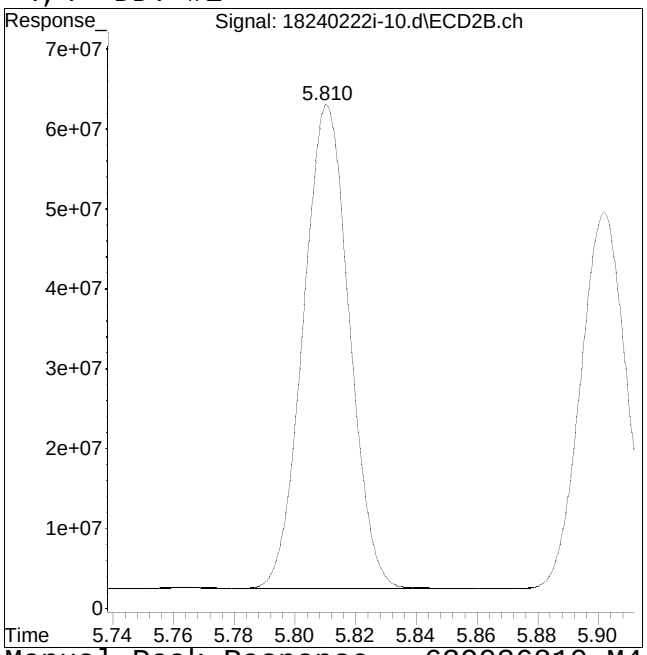
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 641225806



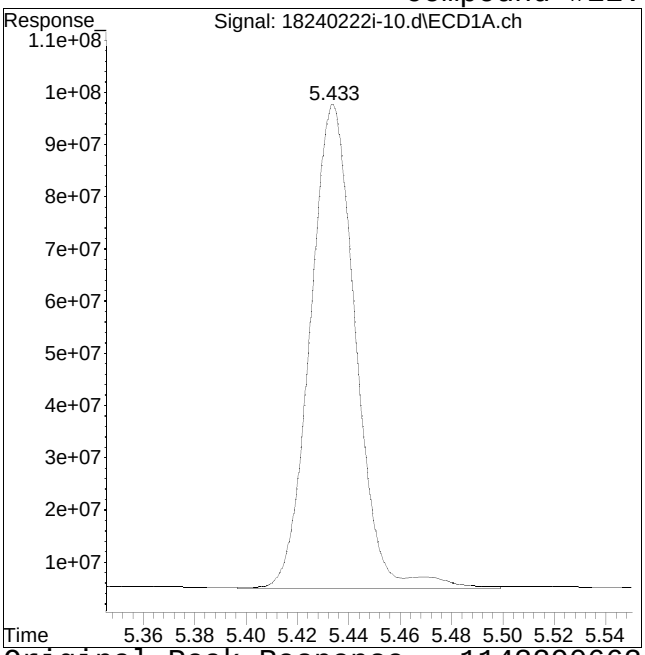
Manual Peak Response = 639936810 M4

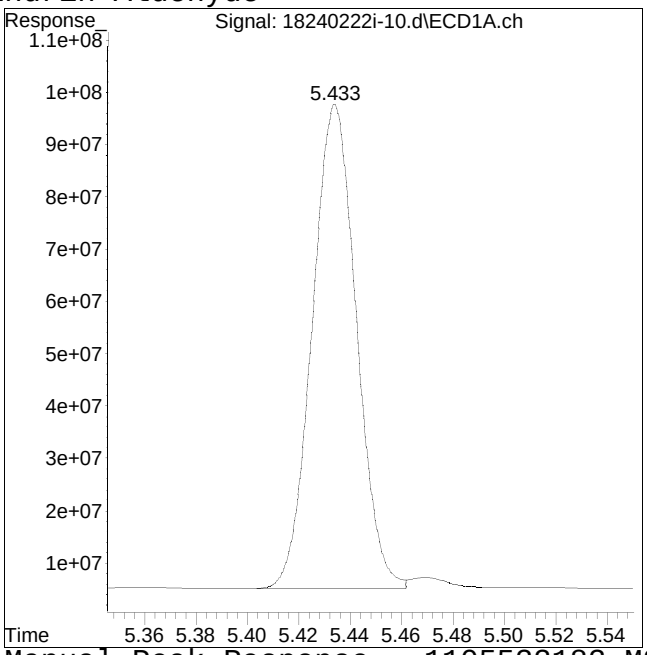
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #22: Endrin Aldehyde



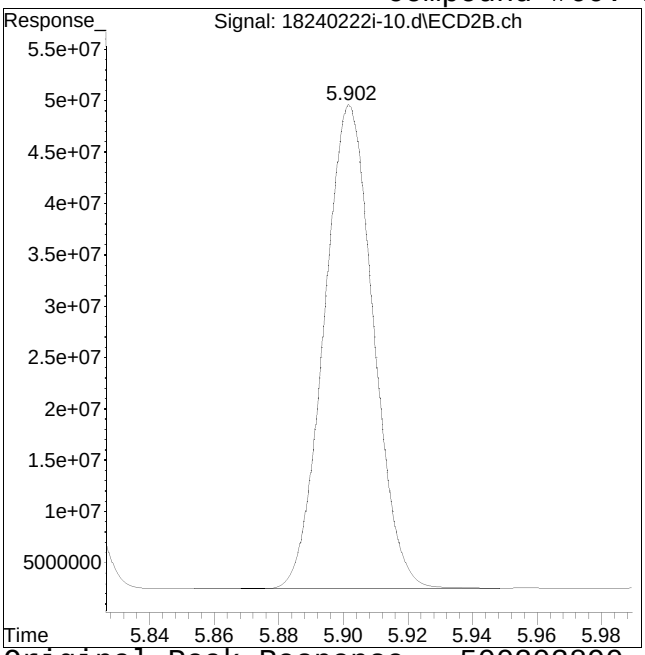


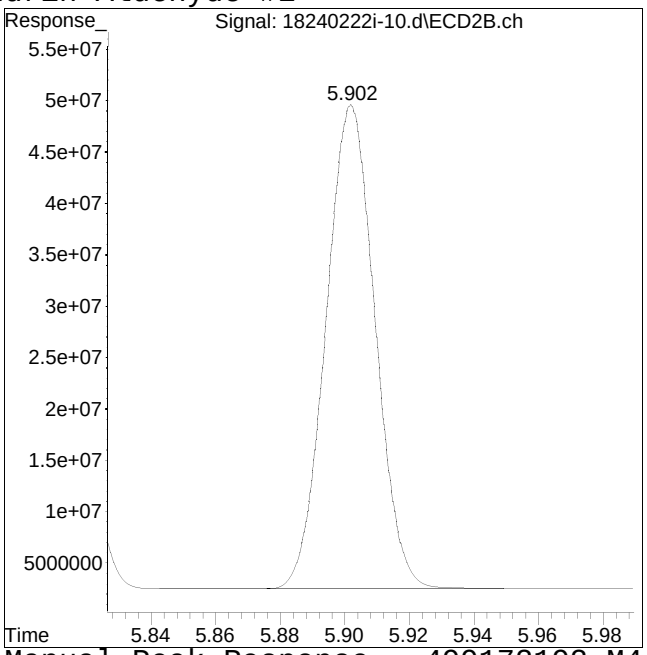
Original Peak Response = 1143290663 Manual Peak Response = 1105533183 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #60: Endrin Aldehyde #2



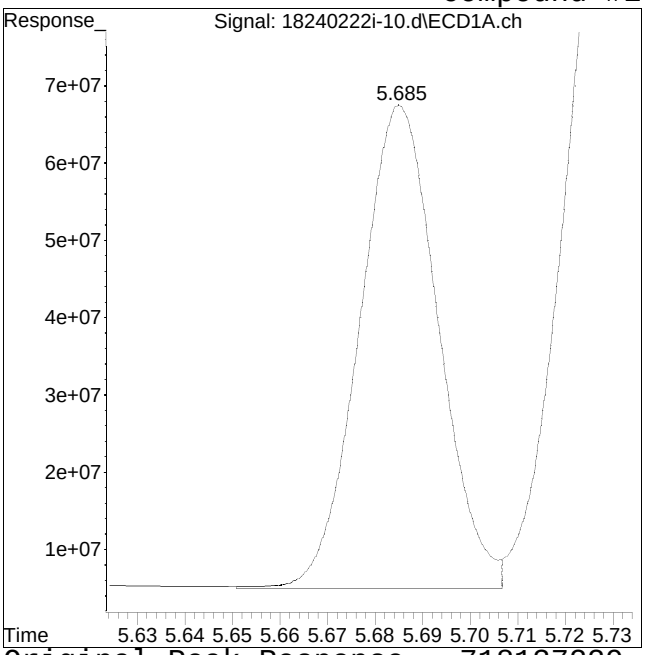


Original Peak Response = 500203890 Manual Peak Response = 499172192 M4
M4 = Poor automated baseline construction.

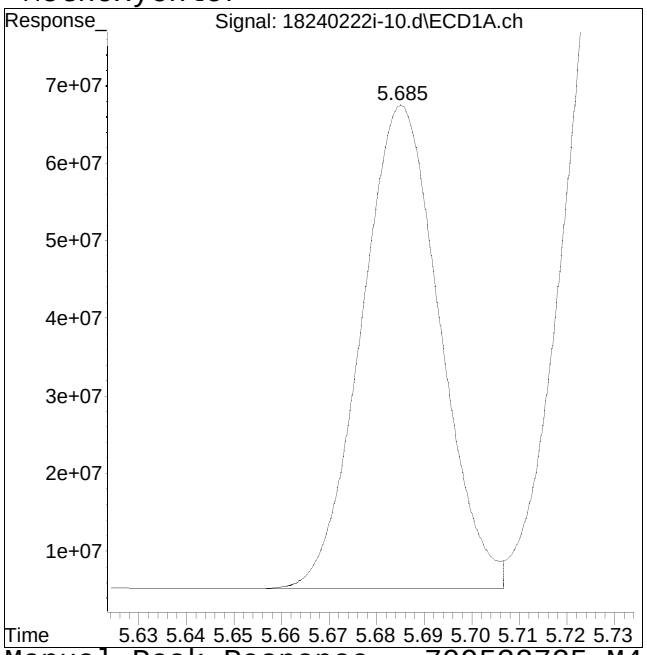
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #23: Methoxychlor



Original Peak Response = 718137229



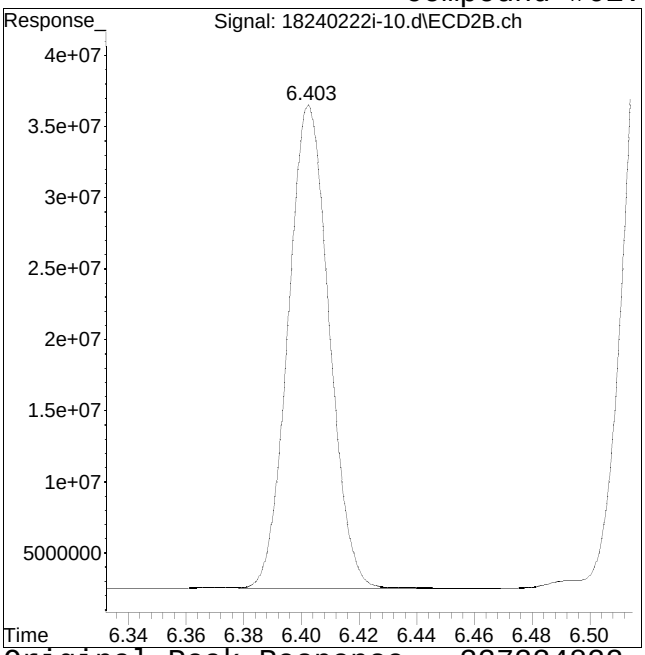
Manual Peak Response = 709532725 M4

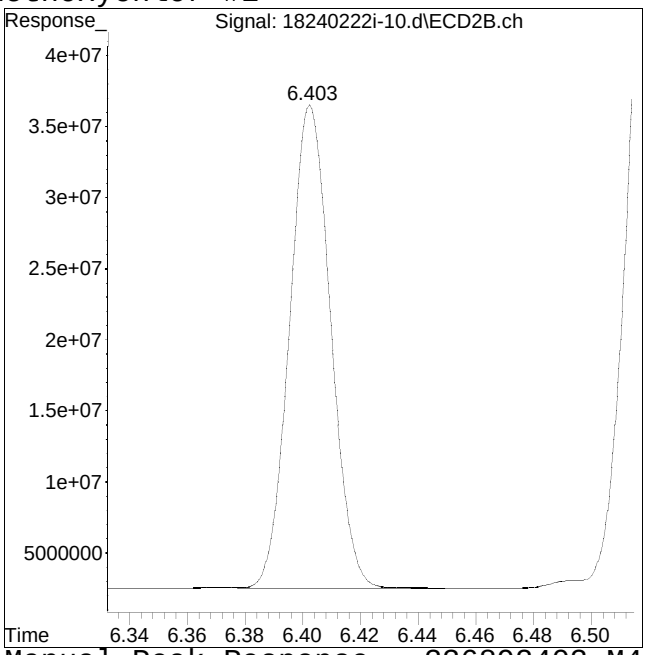
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #61: Methoxychlor #2



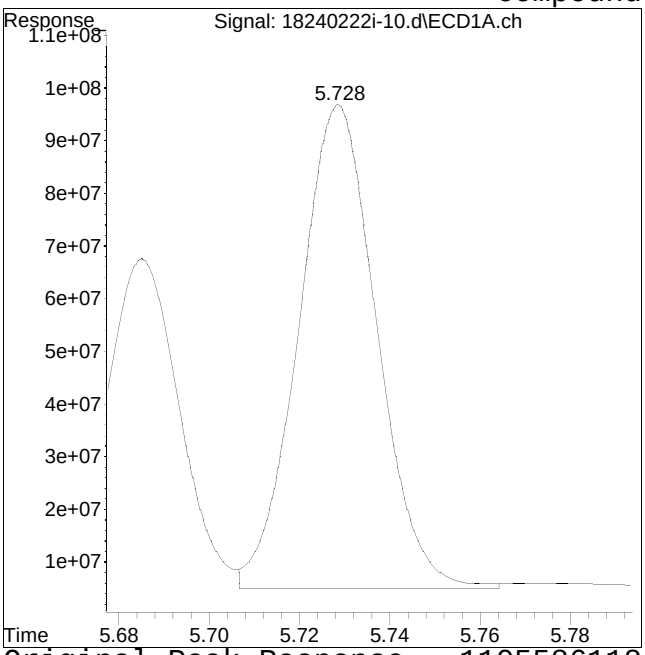


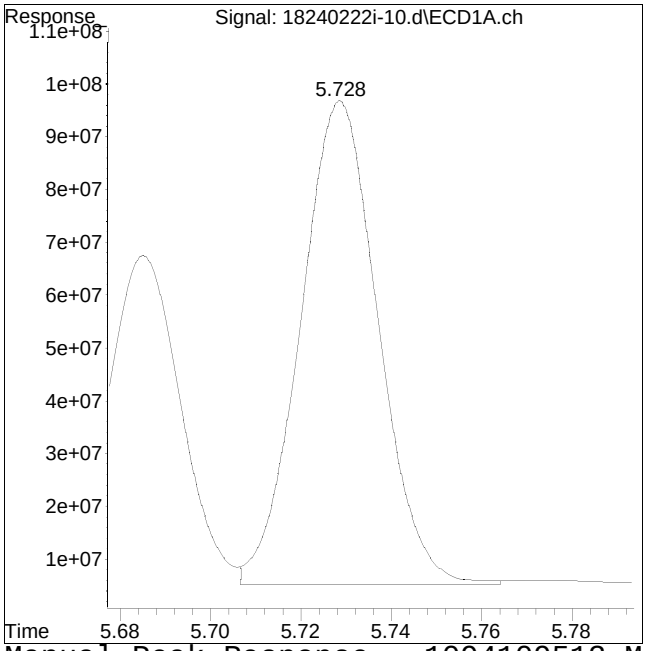
Original Peak Response = 337334822 Manual Peak Response = 336892403 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #24: Mirex



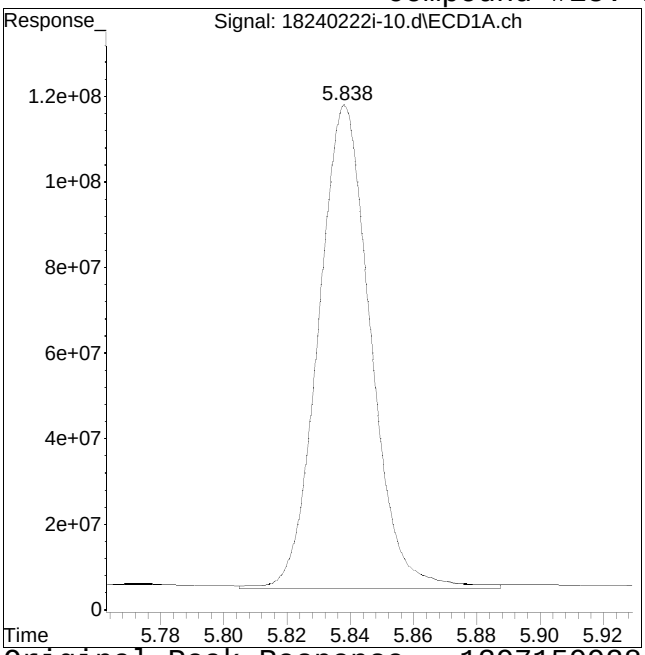


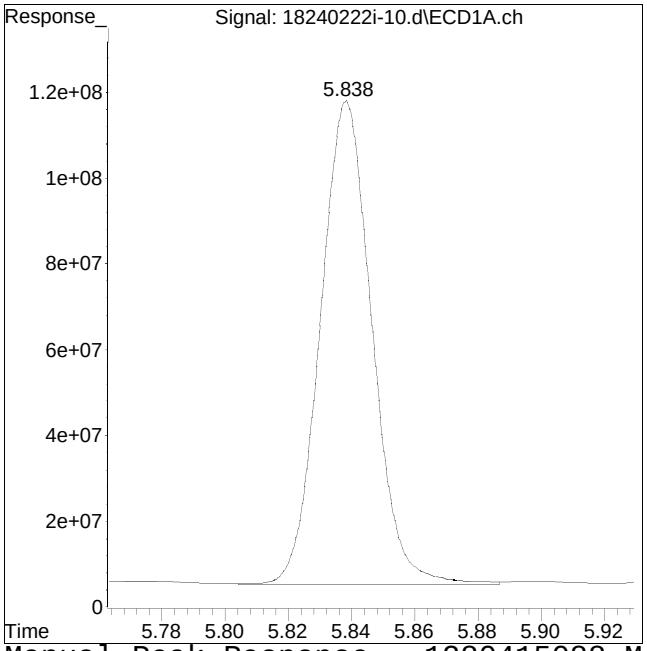
Original Peak Response = 1105586118 Manual Peak Response = 1094109513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #25: Endosulfan Sulfate





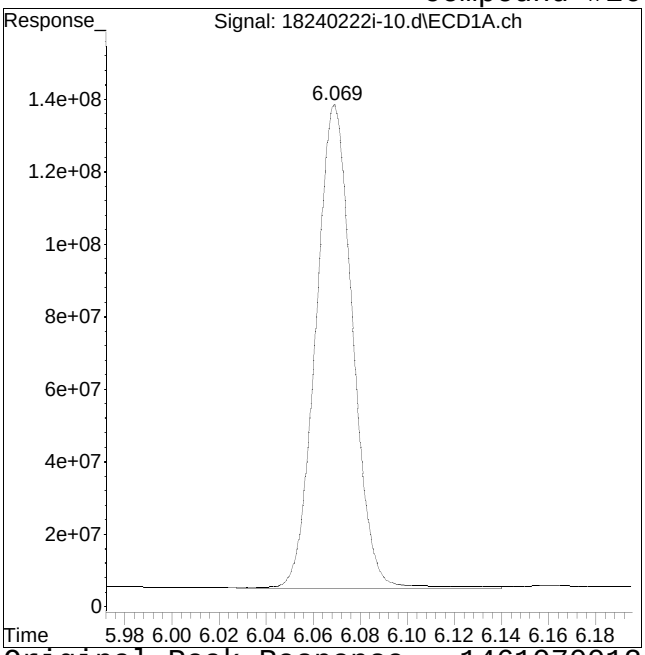
Original Peak Response = 1297159928 Manual Peak Response = 1280415088 M4
M4 = Poor automated baseline construction.

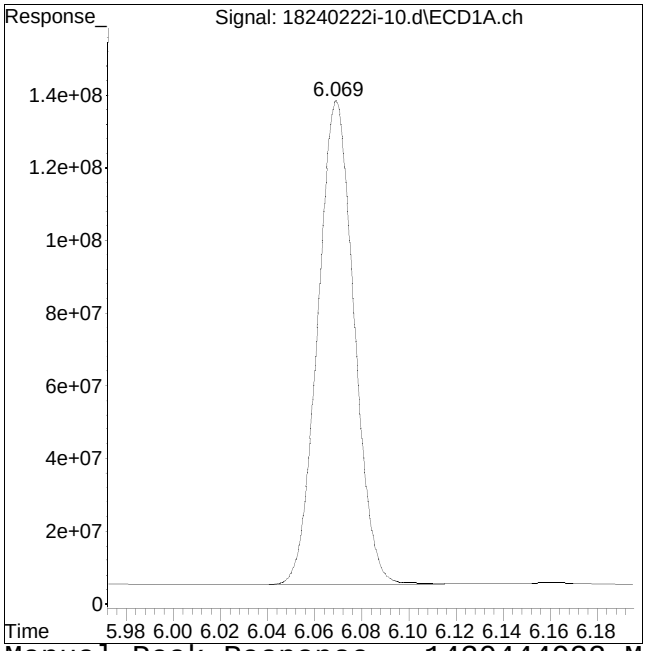
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-10.d
Date Inj'd : 2/22/2024 2:28 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 2/27/2024 2:10 pm

Compound #26: Endrin Ketone



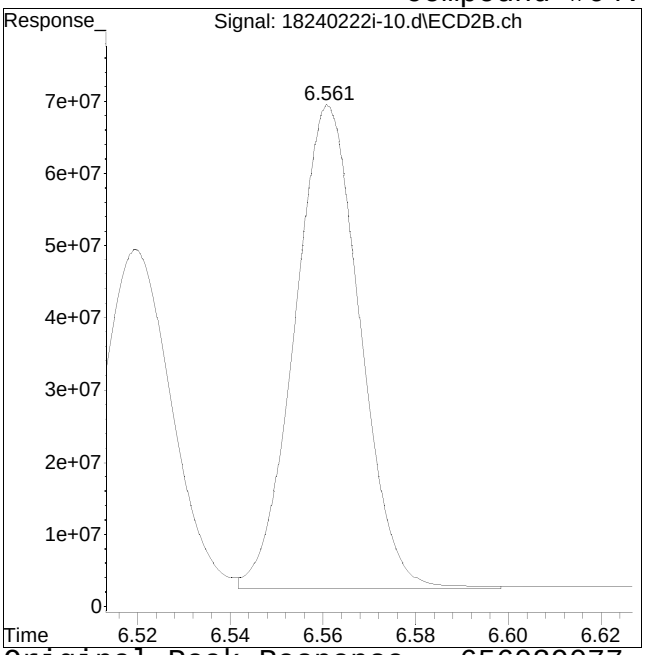


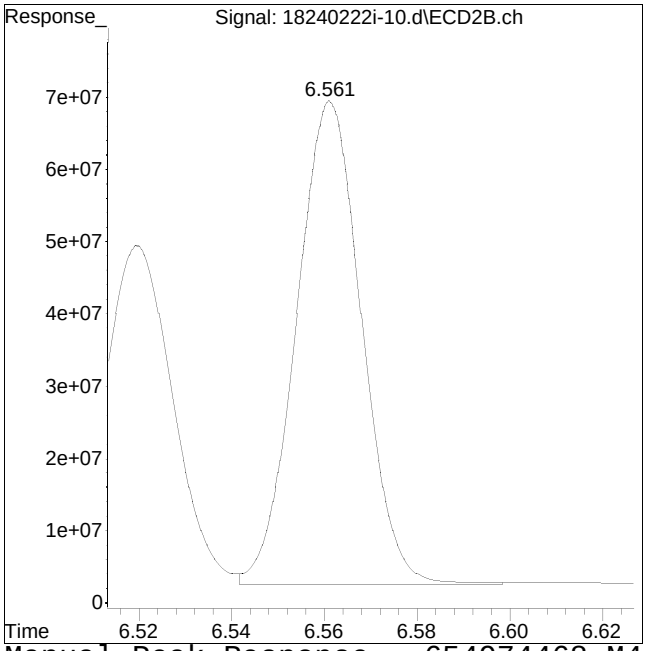
Original Peak Response = 1461070012 Manual Peak Response = 1430444932 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #64: Endrin Ketone #2



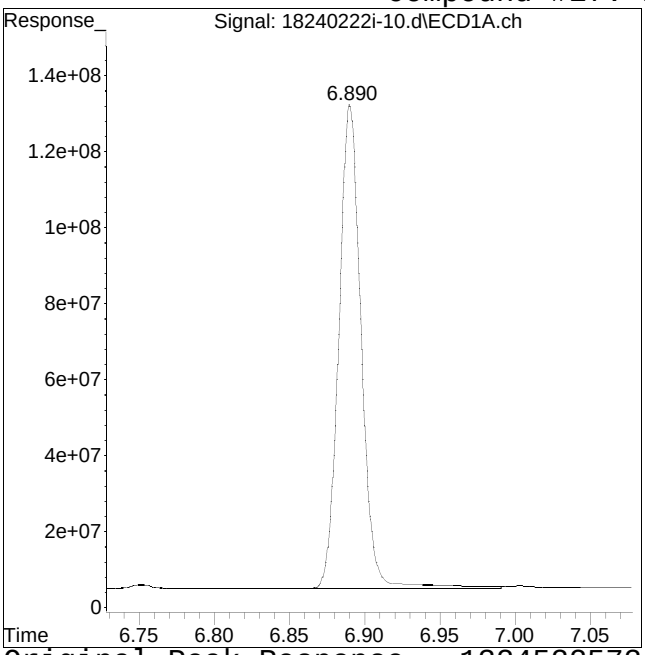


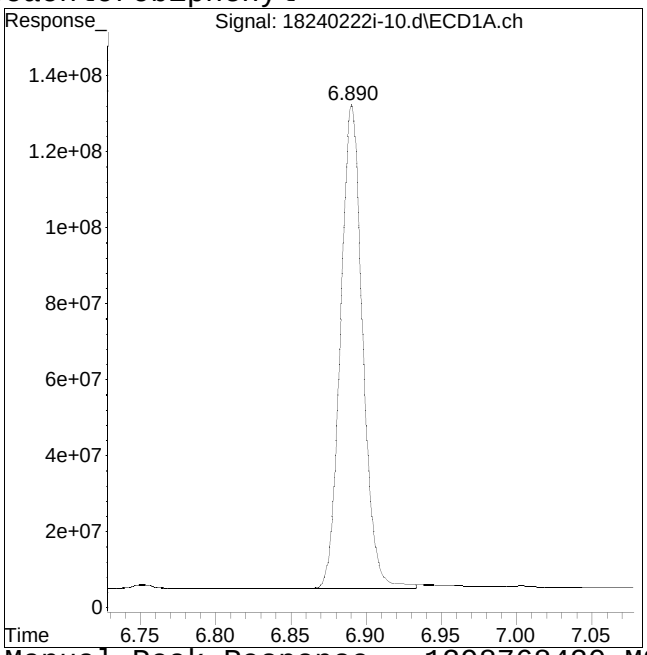
Original Peak Response = 656039077 Manual Peak Response = 654974468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-10.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:28 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 2/27/2024 2:10 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1324522573 Manual Peak Response = 1298768420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:40 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:23:59 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:15:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	396.2E6	175.8E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.100	2.262	2818.1E6	1250.6E6	196.210M3	192.407M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		392.42%#	384.81%#
27) s	Decachlorobi	6.890	7.451	2612.7E6	1001.2E6	194.580M3	189.545
	Spiked Amount 50.000	Range 30 - 150		Recovery =		389.16%#	379.09%#
	Target Compounds						
3)	Hexachlorobe	2.339	2.593	3058.3E6	1319.2E6	196.356M3	192.311
4)	alpha-BHC	2.451	2.696	4123.2E6	1844.5E6	203.757M4	200.388
5)	gamma-BHC (l	2.668	2.982	3739.3E6	1675.4E6	202.890M3	198.537
6)	beta-BHC	2.732	3.052	1605.0E6	736.7E6	197.128M4	193.973M3
7)	delta-BHC	2.863	3.314	3821.0E6	1731.9E6	205.139M4	200.960
8)	Heptachlor	3.029	3.371	3460.1E6	1567.5E6	195.491M4	192.380
9)	Aldrin	3.276	3.681	3295.0E6	1476.0E6	200.072M4	196.384M4
10)	Alachlor	3.414	3.585	476.7E6	214.0E6	178.425M4	179.482M4
11)	Chlorpyrifos	3.508	3.934	1371.2E6	649.9E6	182.211M4	180.546
12)	Heptachlor E	3.831	4.288	2982.4E6	1378.1E6	196.477M3	195.202
13)	gamma-Chlord	3.956	4.505	2810.0E6	1272.0E6	201.357M4	198.781
14)	alpha-Chlord	4.091	4.677	3120.5E6	1402.9E6	199.041M3	196.736
15)	4,4'-DDE	4.196	4.902	3116.3E6	1413.3E6	202.679M4	198.965
16)	Endosulfan I	4.226	4.737	2799.9E6	1300.6E6	193.438M4	194.339
17)	Dieldrin	4.486	5.058	3054.3E6	1375.4E6	199.012M4	196.923
18)	Endrin	4.741	5.376	3107.1E6	1389.3E6	196.945M4	197.749M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:40 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:23:59 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:15:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.867	5.520	2545.0E6	1144.6E6	203.753M4	199.038M4
20)	Endosulfan I	4.996	5.588	2649.8E6	1191.2E6	194.517M4	191.336M4
21)	4,4'-DDT	5.175	5.811	2878.9E6	1293.2E6	204.729M3	196.509M4
22)	Endrin Aldeh	5.434	5.902	2257.9E6	1006.7E6	203.101M3	200.219M4
23)	Methoxychlor	5.685	6.403	1392.1E6	651.7E6	187.503M4	184.836M4
24)	Mirex	5.728	6.520	2199.8E6	969.2E6	192.522M3	188.721M3
25)	Endosulfan S	5.838	6.140	2598.8E6	1130.3E6	196.813M4	193.394M3
26)	Endrin Keton	6.069	6.561	2856.2E6	1295.9E6	193.536M4	190.852M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:40 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:23:59 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:15:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

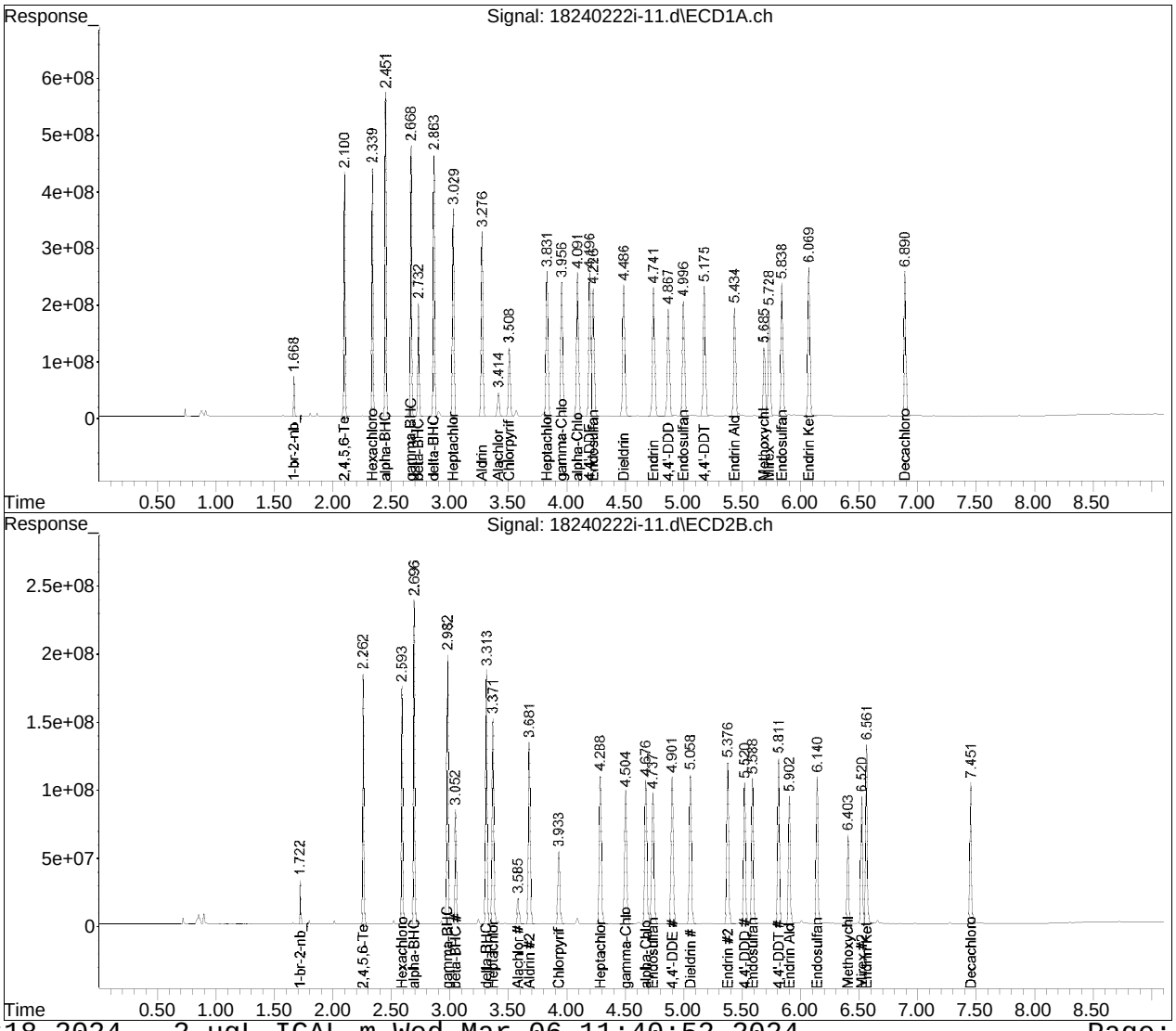
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:40 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:23:59 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:15:48 2024
Response via : Initial Calibration
Integrator: ChemStation

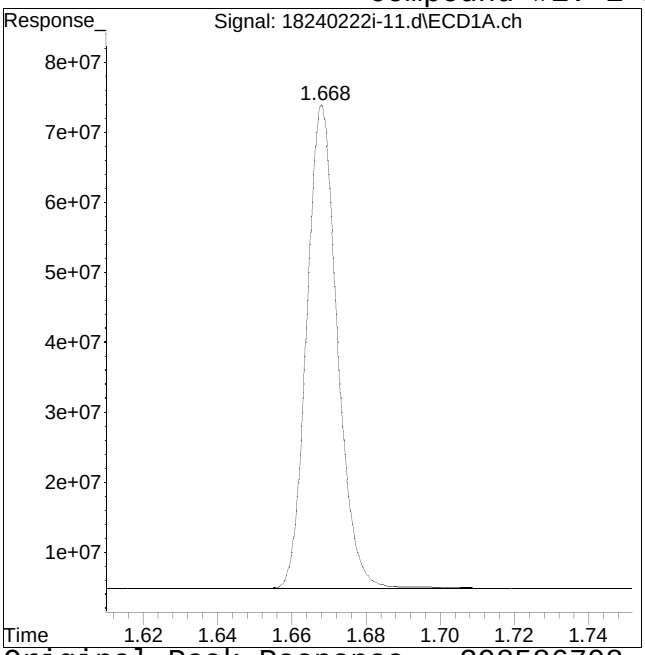
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

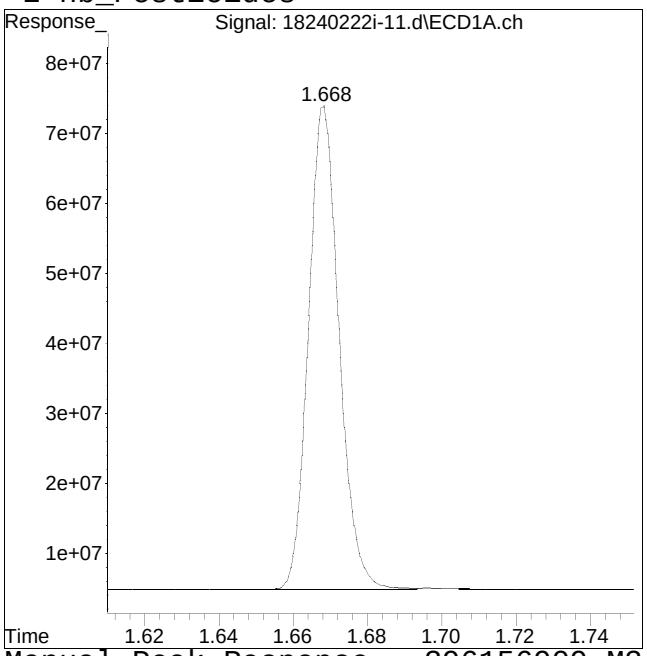


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #1: 1-br-2-nb_Pesticides



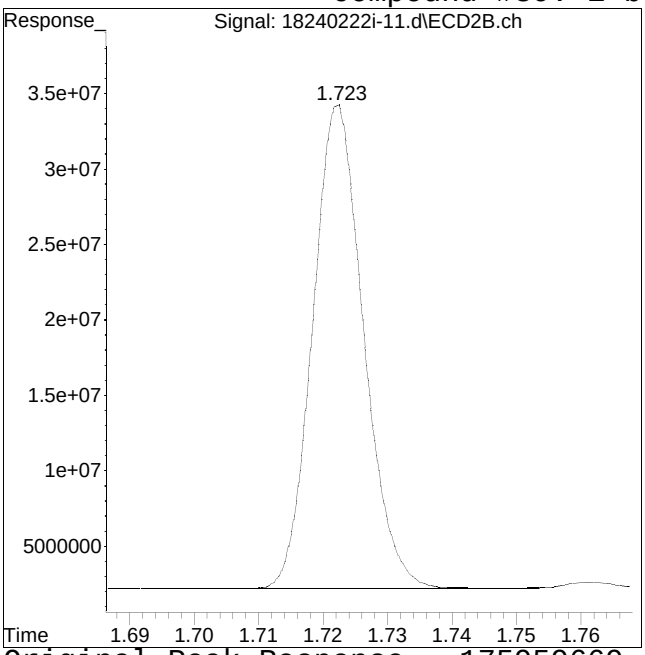


Original Peak Response = 398586708 Manual Peak Response = 396156909 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

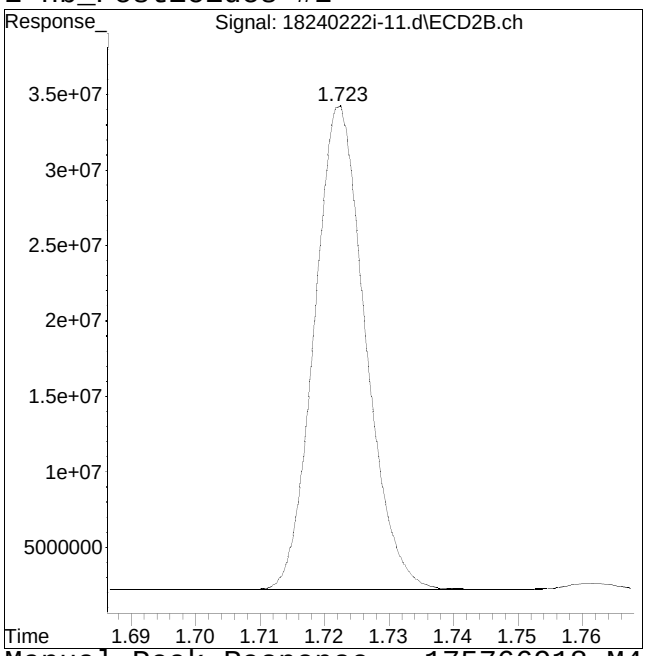
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 175959669



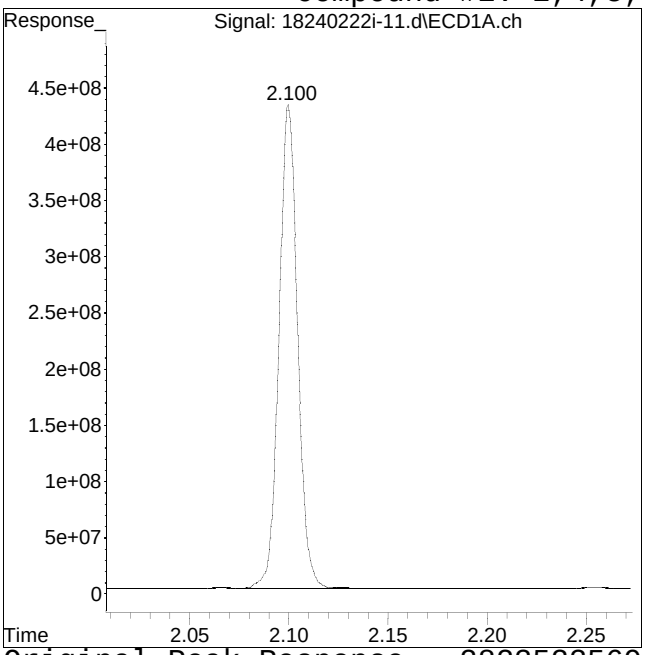
Manual Peak Response = 175766918 M4

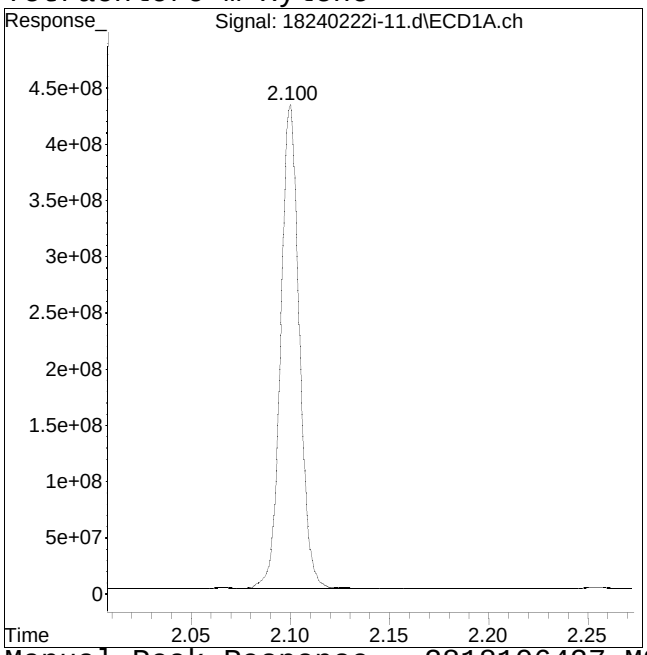
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



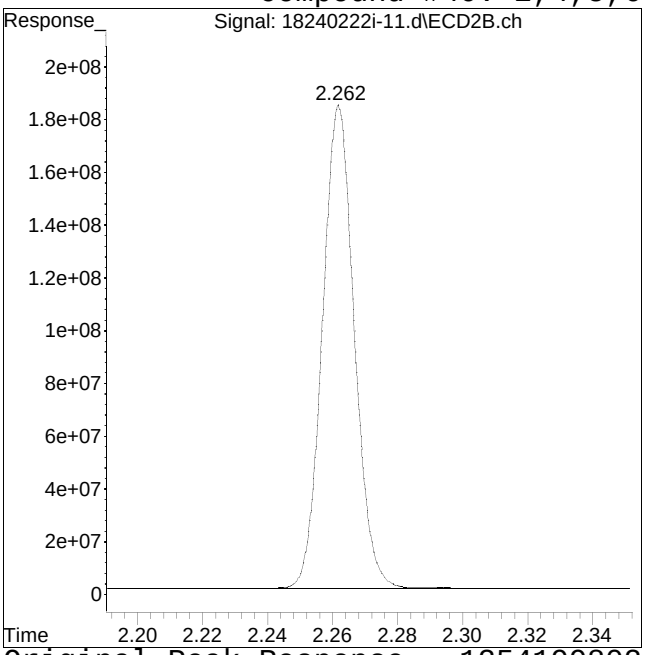


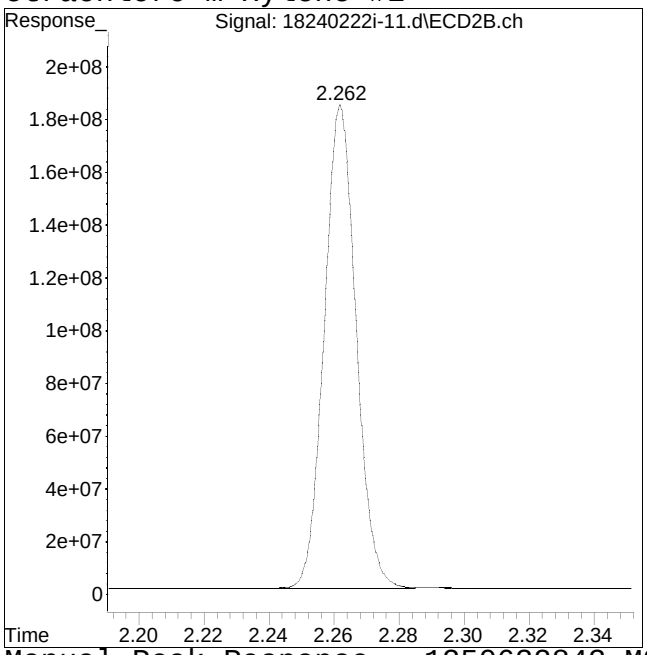
Original Peak Response = 2823523569 Manual Peak Response = 2818106427 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



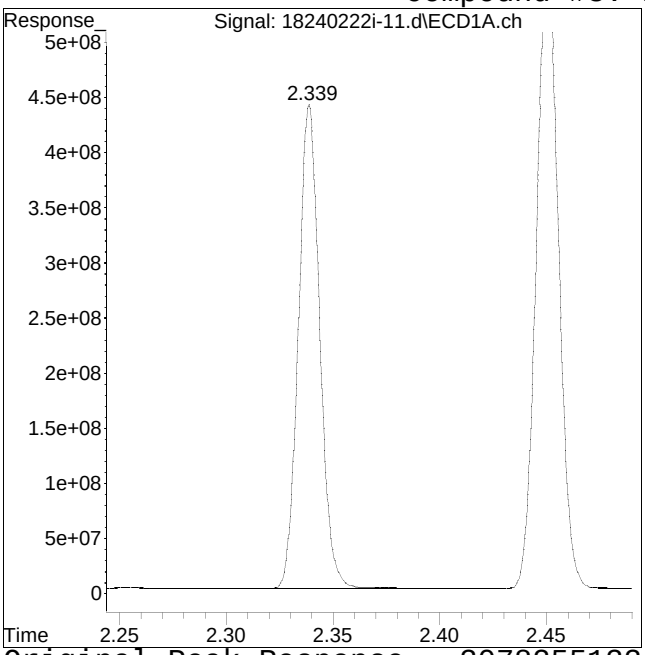


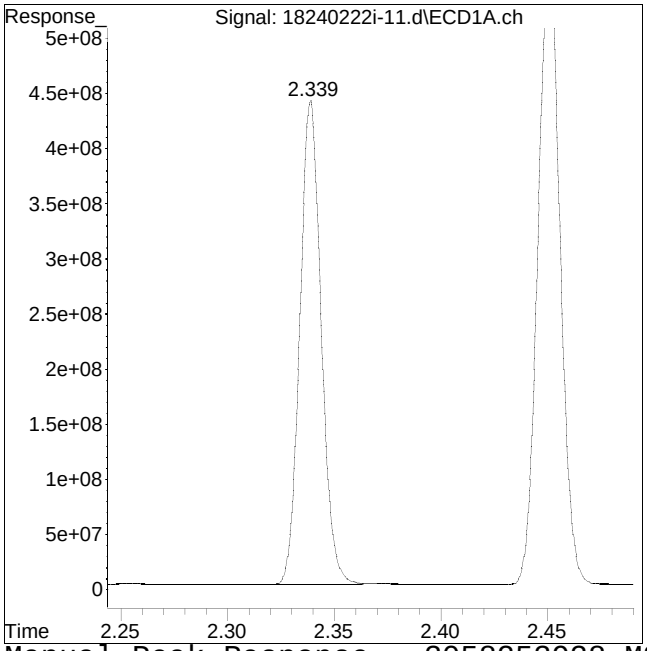
Original Peak Response = 1254199802 Manual Peak Response = 1250632843 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #3: Hexachlorobenzene



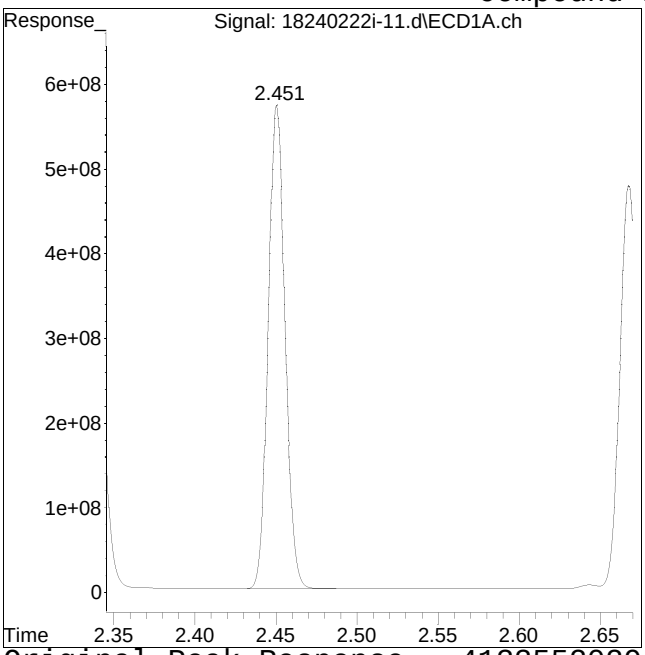


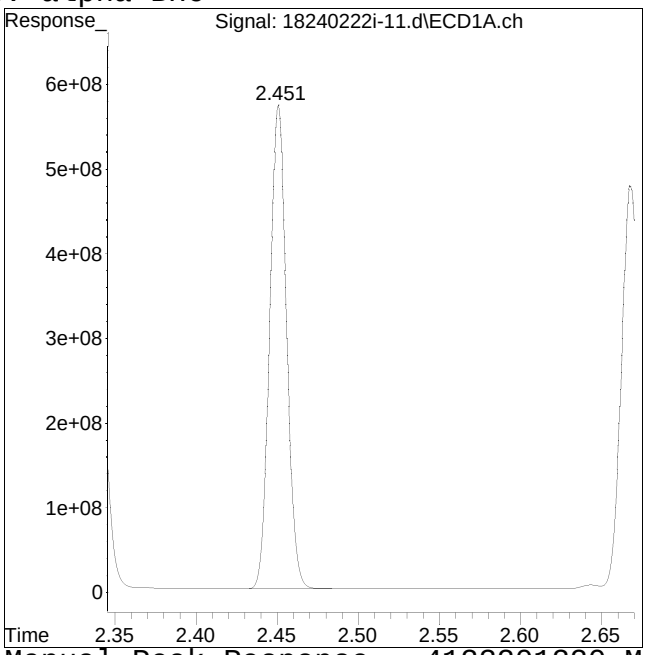
Original Peak Response = 3078255133 Manual Peak Response = 3058253938 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #4: alpha-BHC



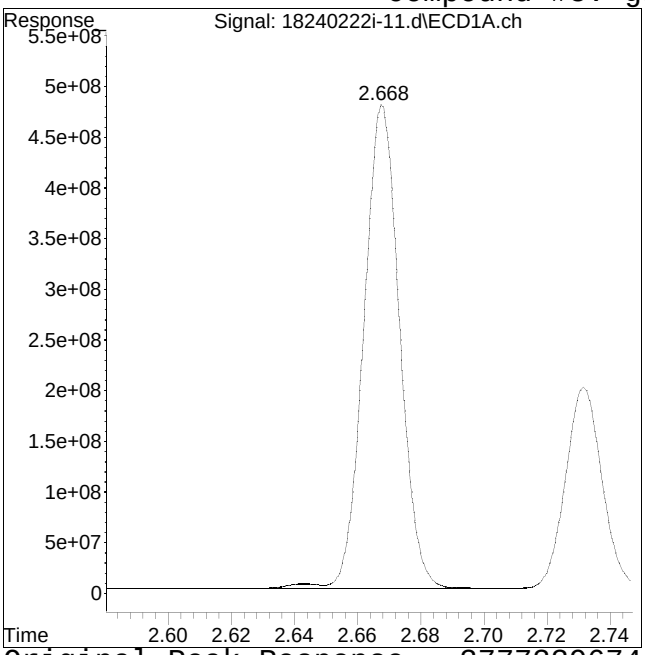


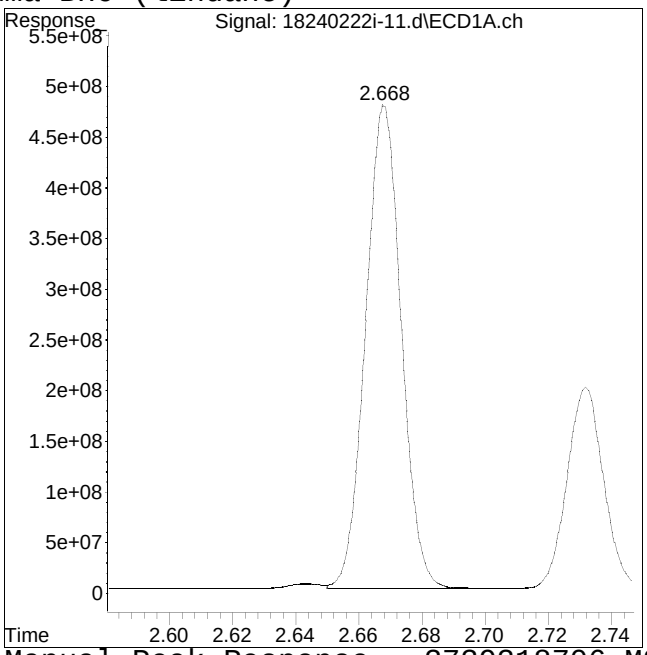
Original Peak Response = 4133552029 Manual Peak Response = 4123201220 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #5: gamma-BHC (lindane)



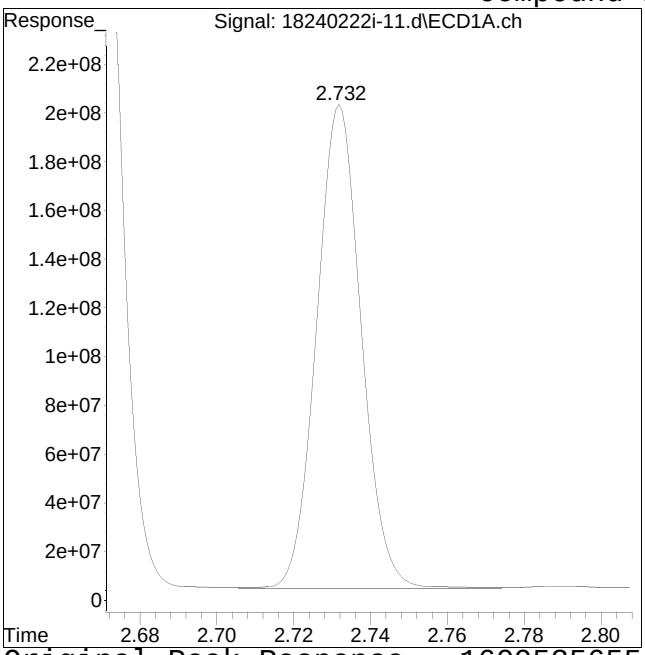


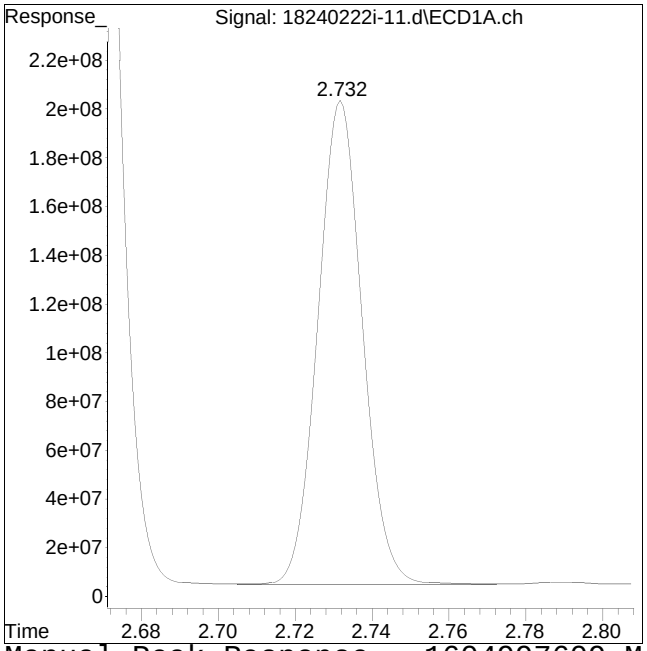
Original Peak Response = 3777339674 Manual Peak Response = 3739318706 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #6: beta-BHC



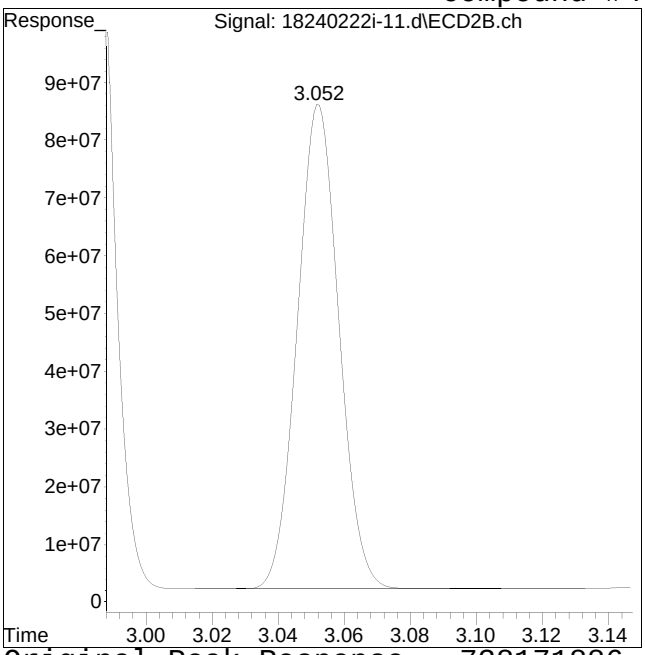


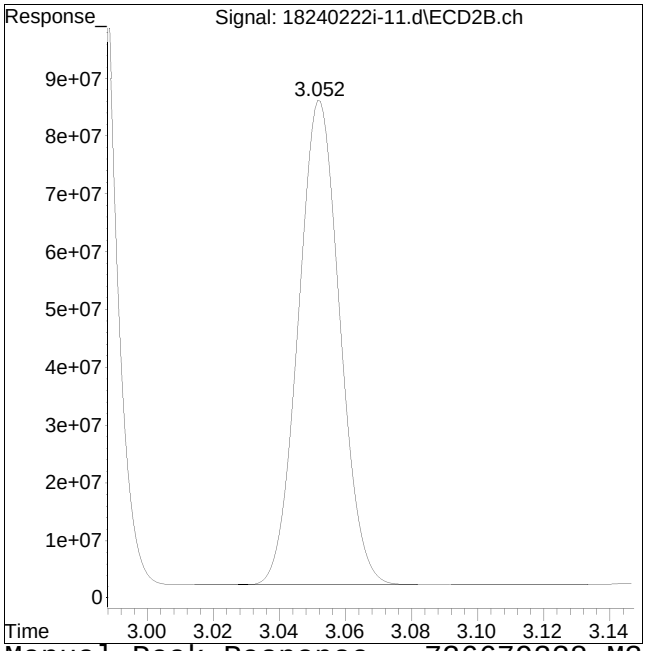
Original Peak Response = 1609535655 Manual Peak Response = 1604997609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #44: beta-BHC #2



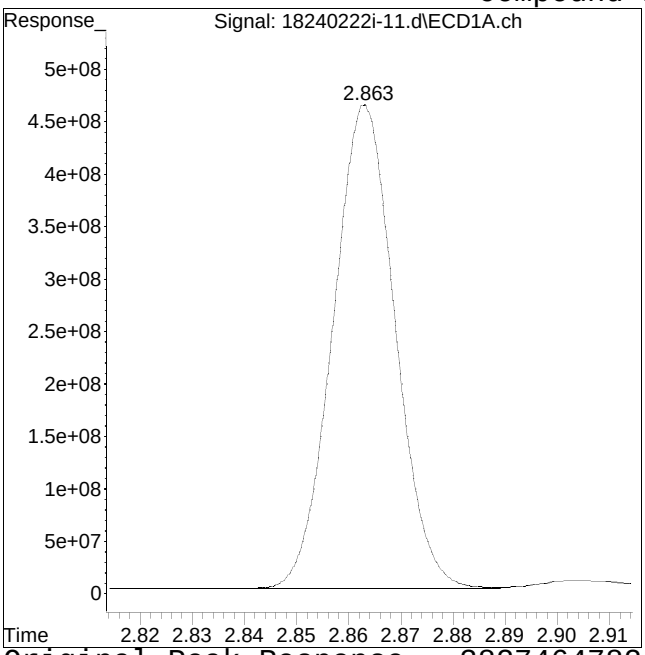


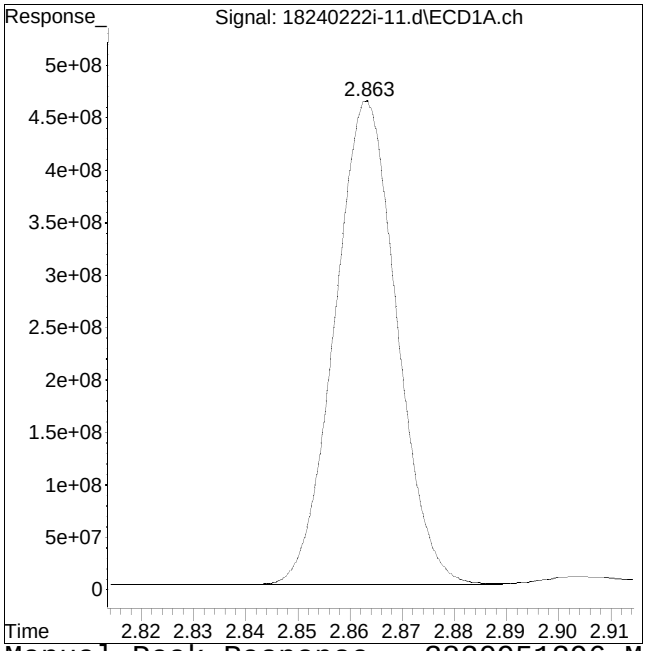
Original Peak Response = 738171886 Manual Peak Response = 736679338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #7: delta-BHC



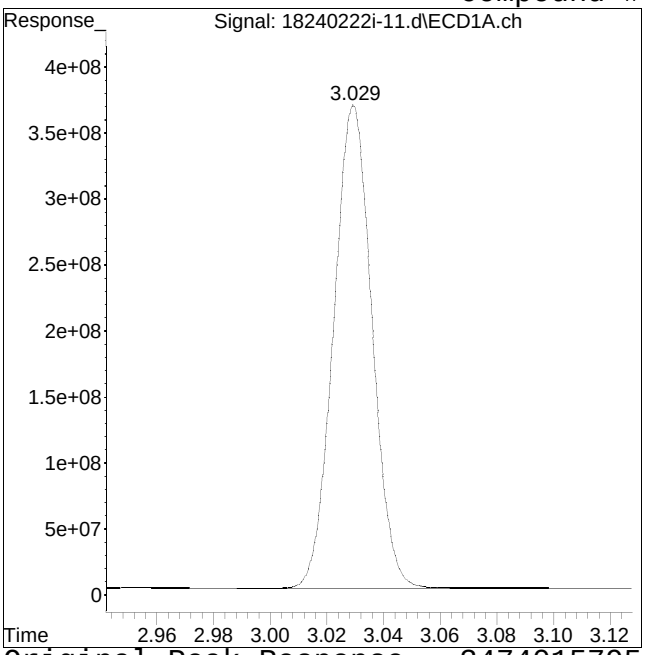


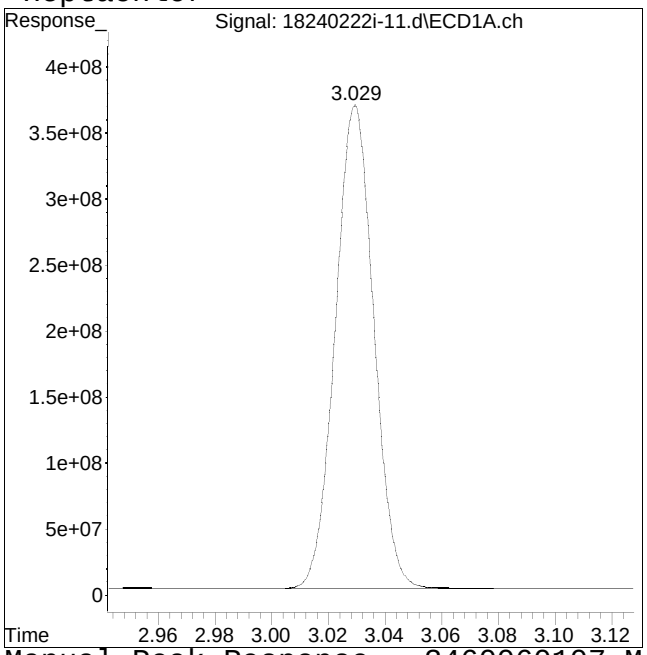
Original Peak Response = 3827464782 Manual Peak Response = 3820951396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #8: Heptachlor



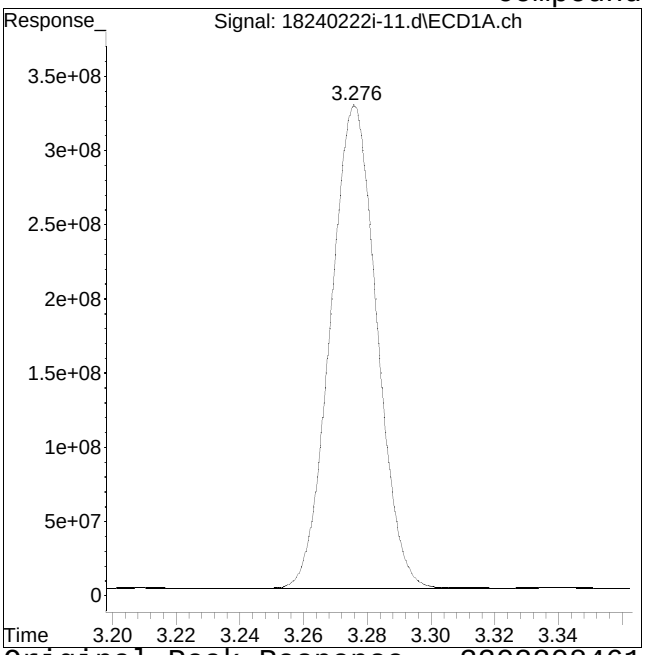


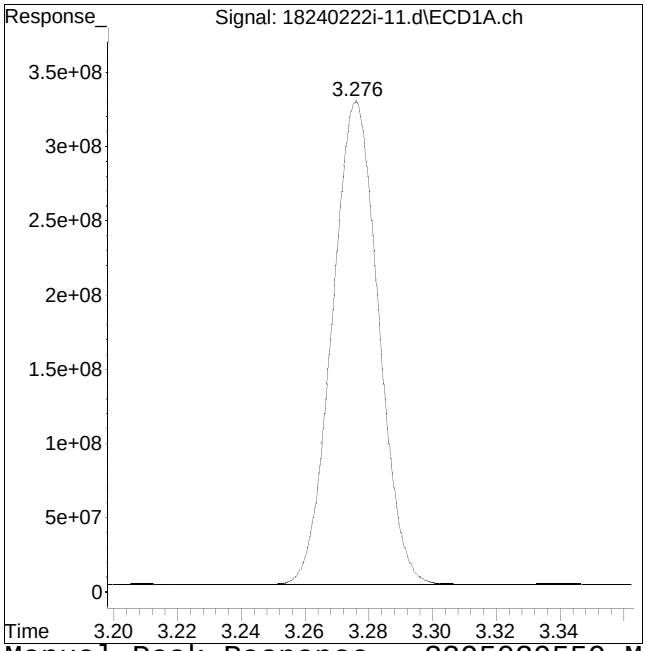
Original Peak Response = 3474015795 Manual Peak Response = 3460060107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #9: Aldrin



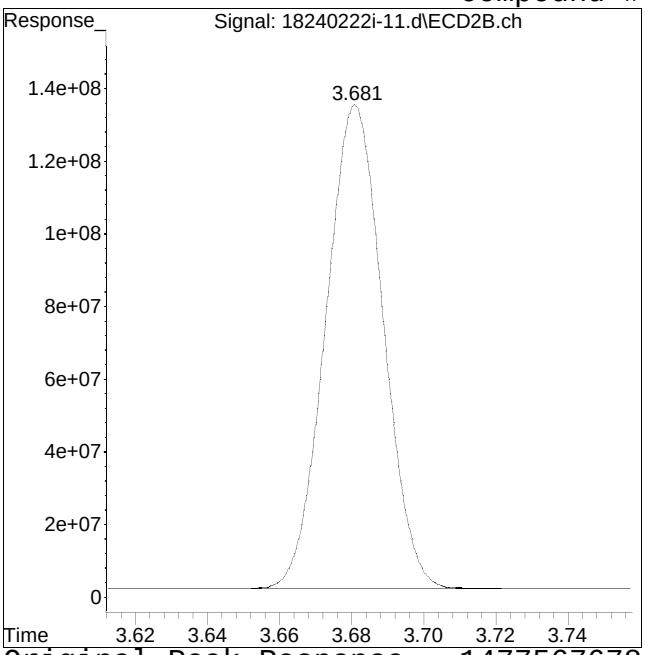


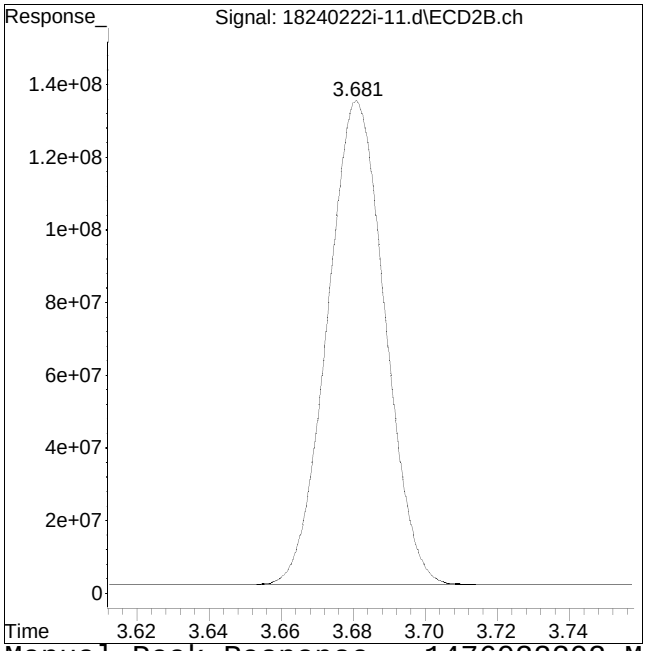
Original Peak Response = 3302208461 Manual Peak Response = 3295039559 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #47: Aldrin #2



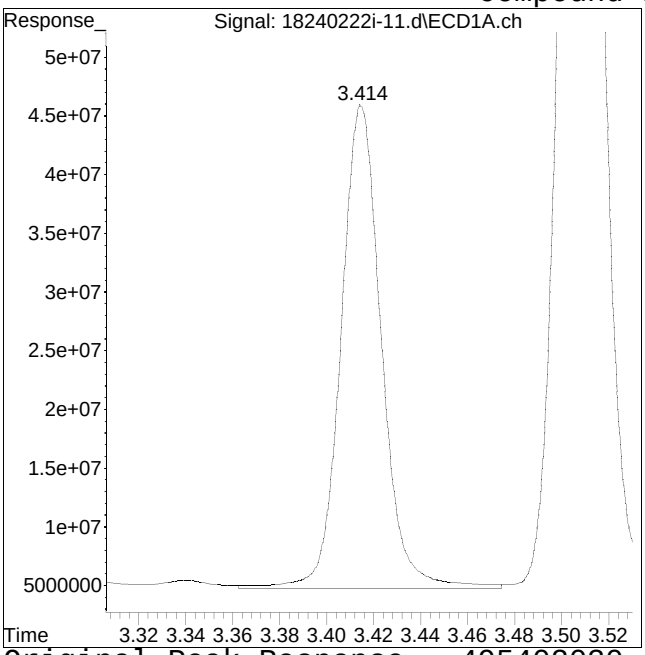


Original Peak Response = 1477567678 Manual Peak Response = 1476032202 M4
M4 = Poor automated baseline construction.

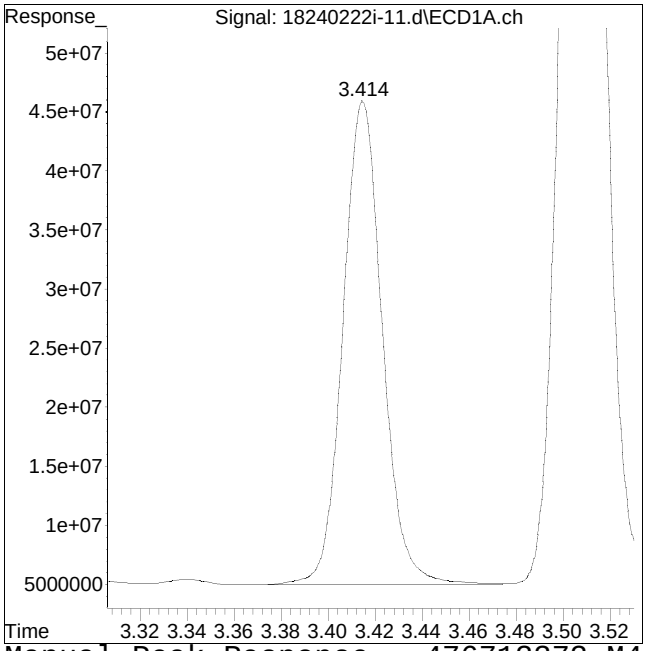
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #10: Alachlor



Original Peak Response = 495402030



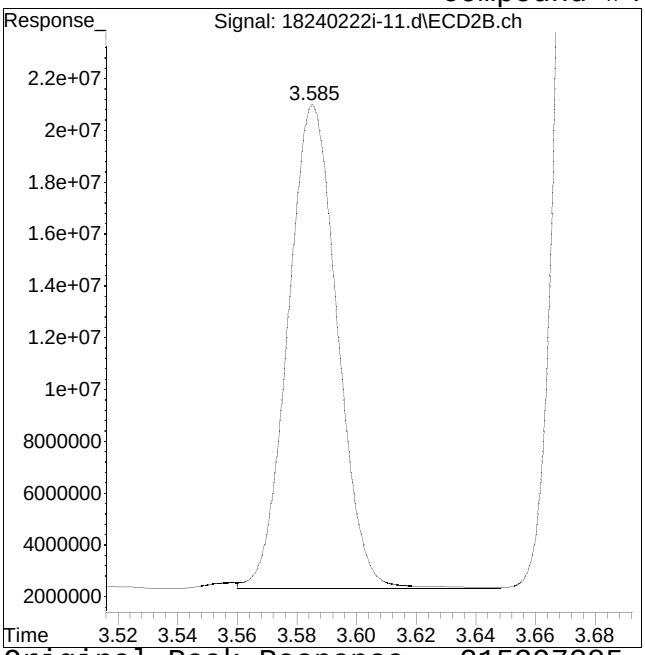
Manual Peak Response = 476713373 M4

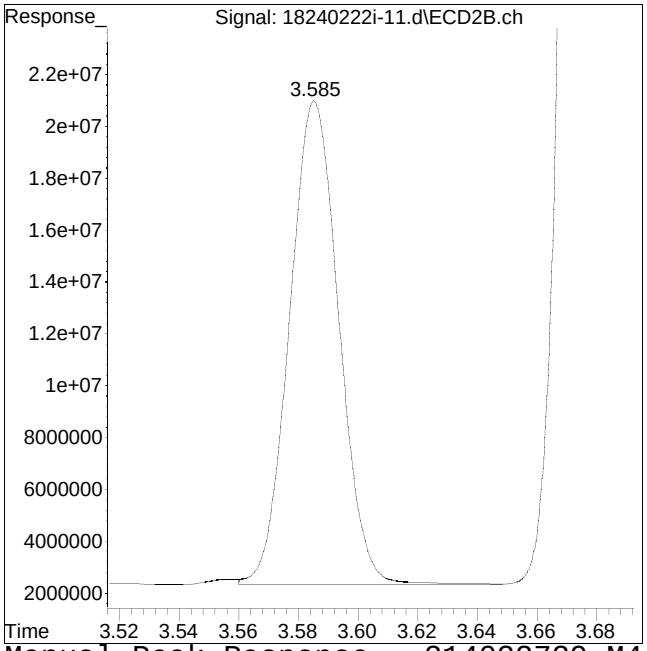
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #48: Alachlor #2



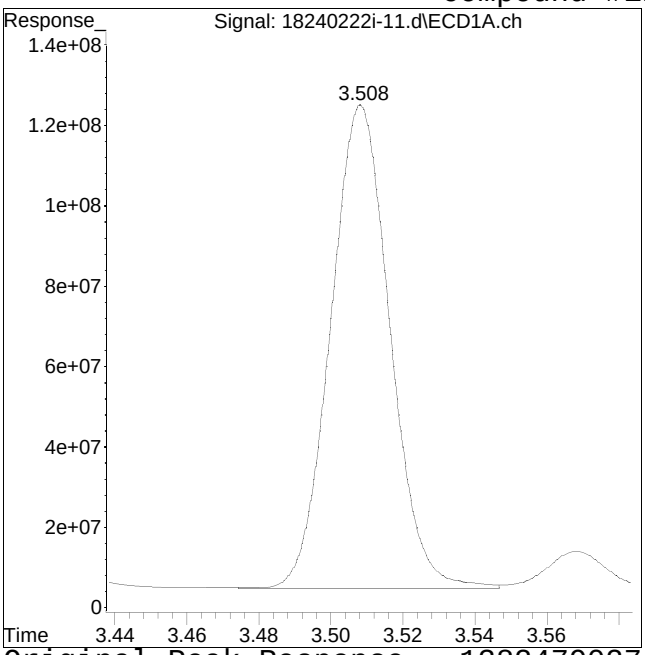


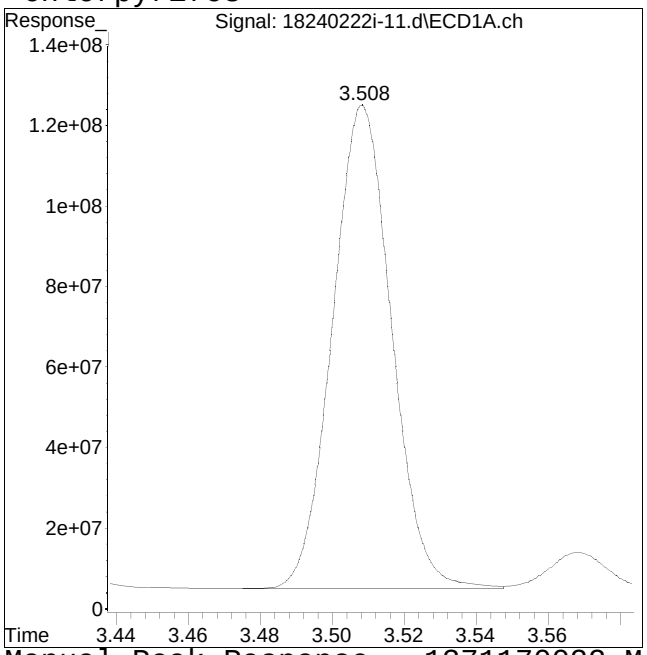
Original Peak Response = 215397385 Manual Peak Response = 214022729 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #11: Chlorpyrifos



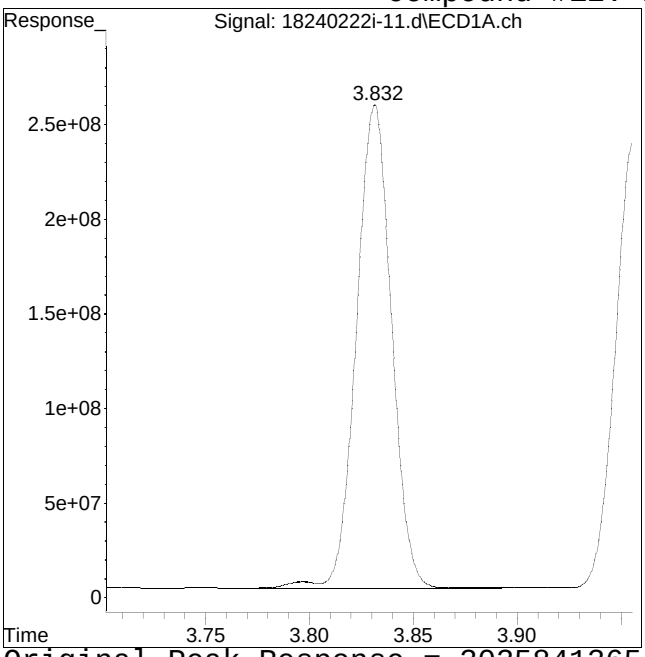


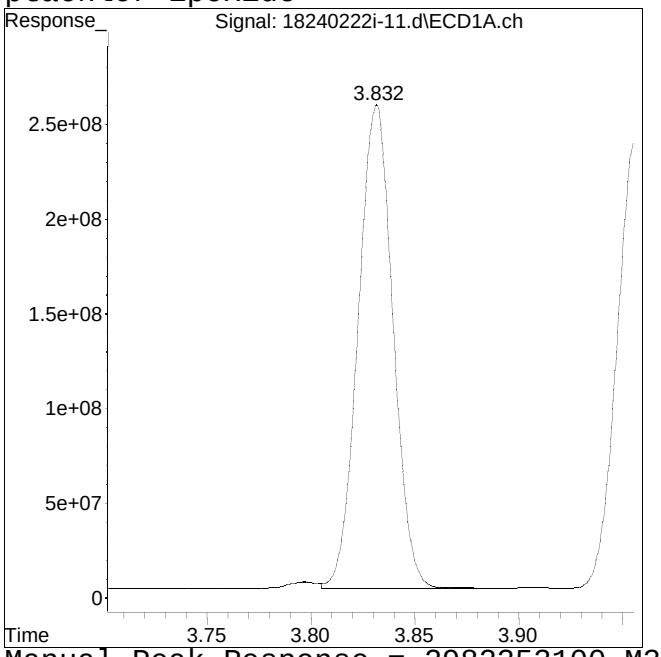
Original Peak Response = 1382479027 Manual Peak Response = 1371170022 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #12: Heptachlor Epoxide



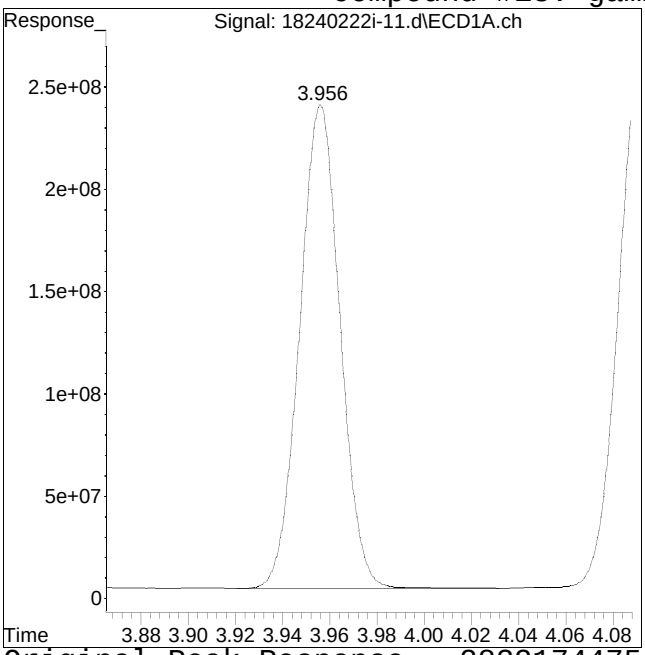


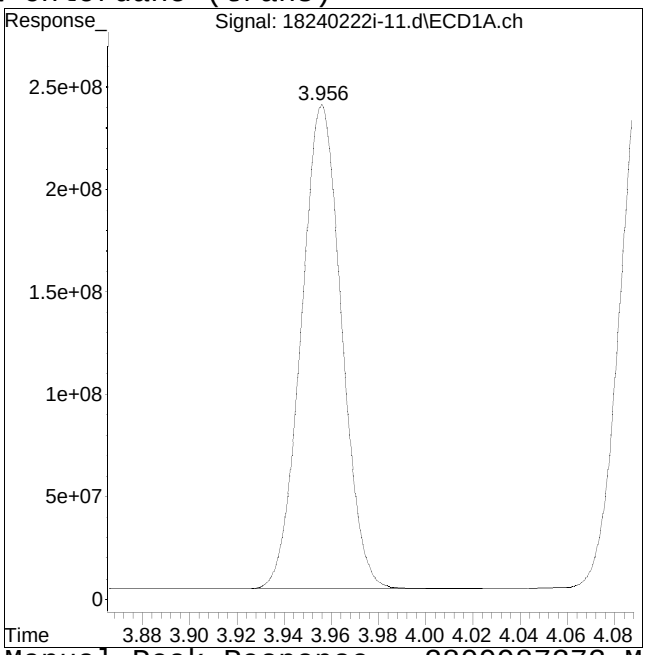
Original Peak Response = 3035841365 Manual Peak Response = 2982353100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #13: gamma-Chlordane (trans)



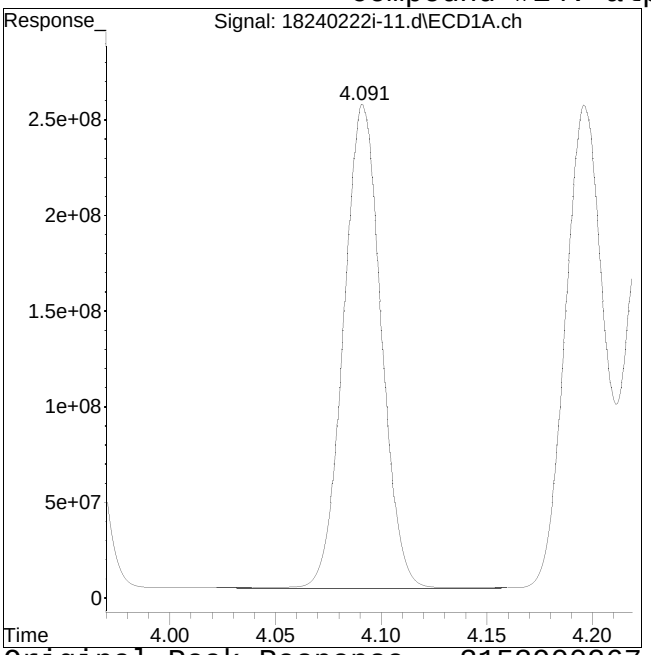


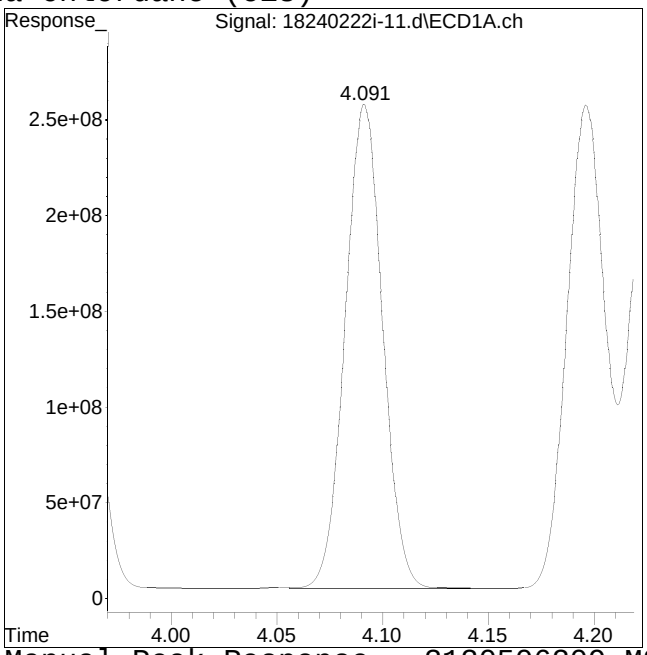
Original Peak Response = 2832174475 Manual Peak Response = 2809987373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #14: alpha-Chlordane (cis)



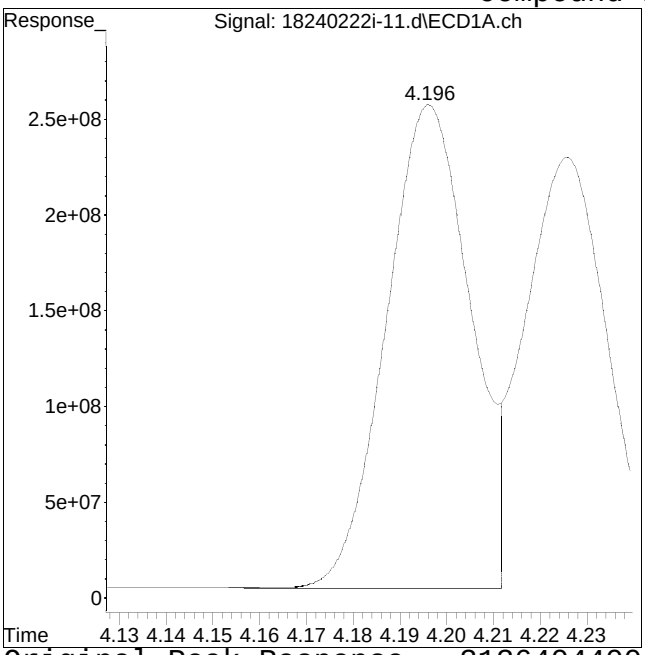


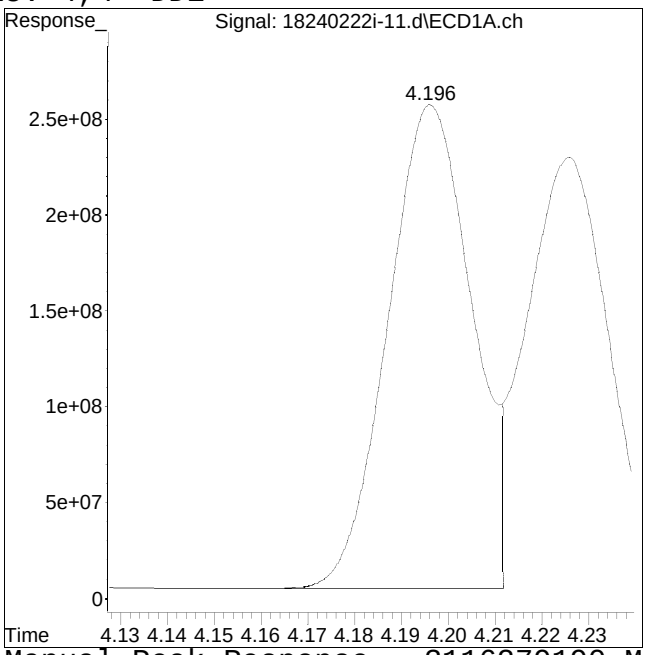
Original Peak Response = 3153900267 Manual Peak Response = 3120506209 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #15: 4,4'-DDE



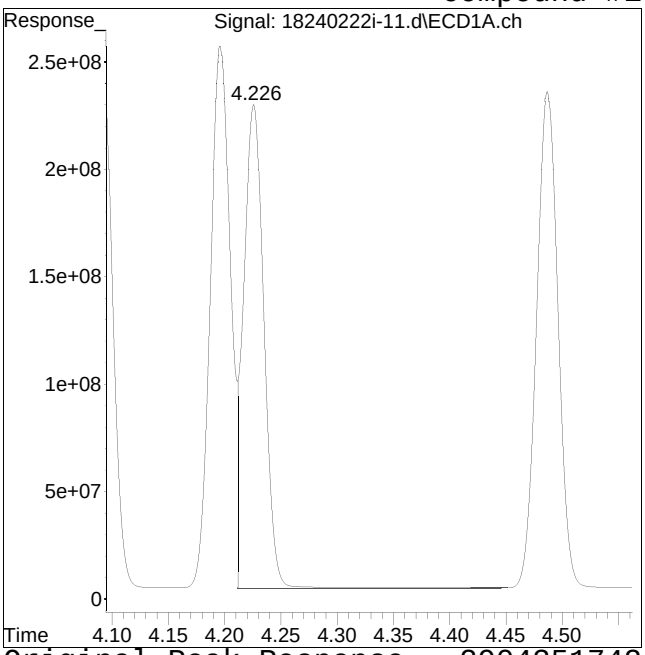


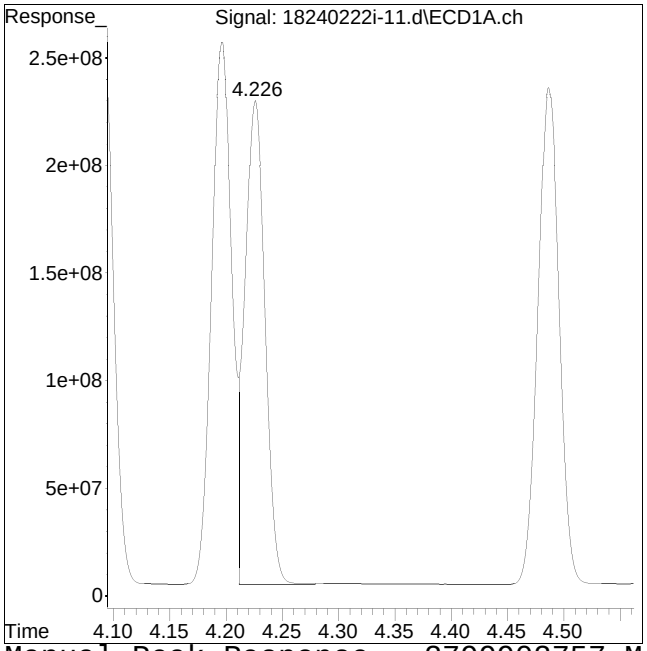
Original Peak Response = 3136404400 Manual Peak Response = 3116279190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #16: Endosulfan I



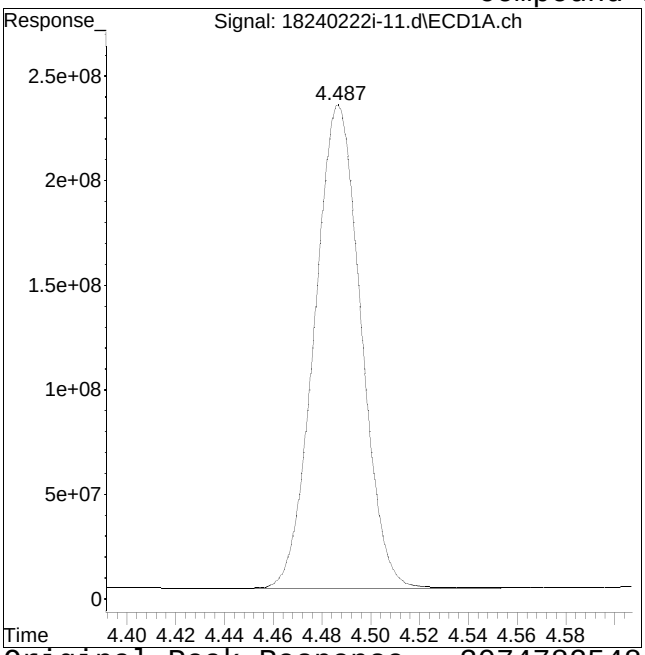


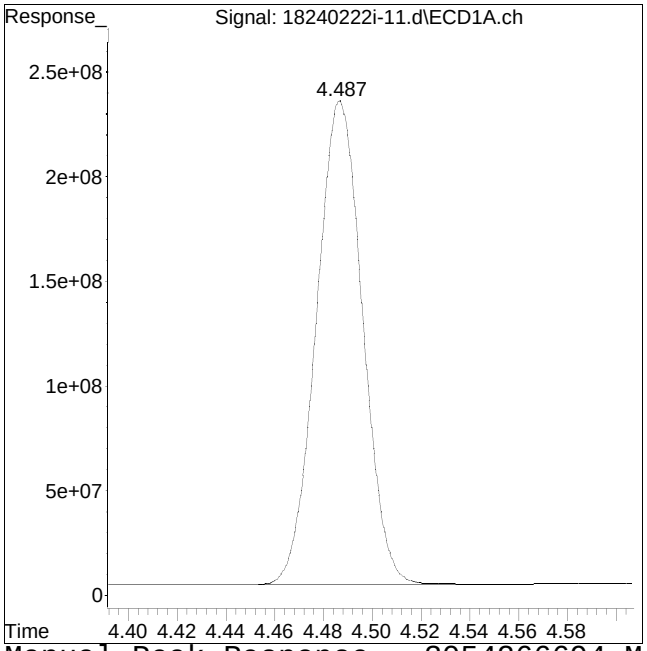
Original Peak Response = 2904351742 Manual Peak Response = 2799902757 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #17: Dieldrin



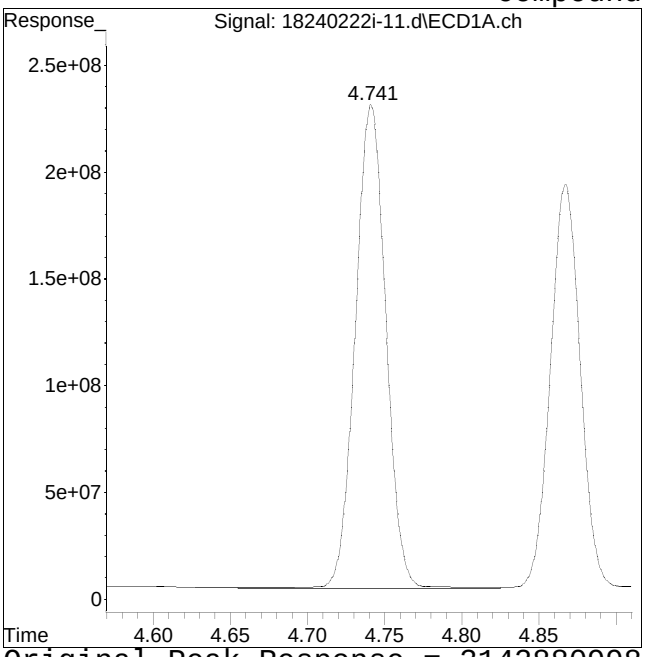


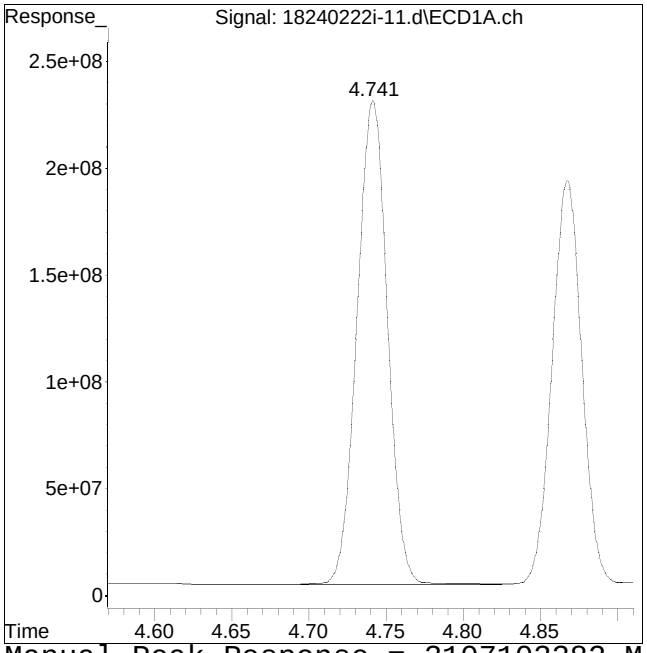
Original Peak Response = 3074782548 Manual Peak Response = 3054266694 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #18: Endrin



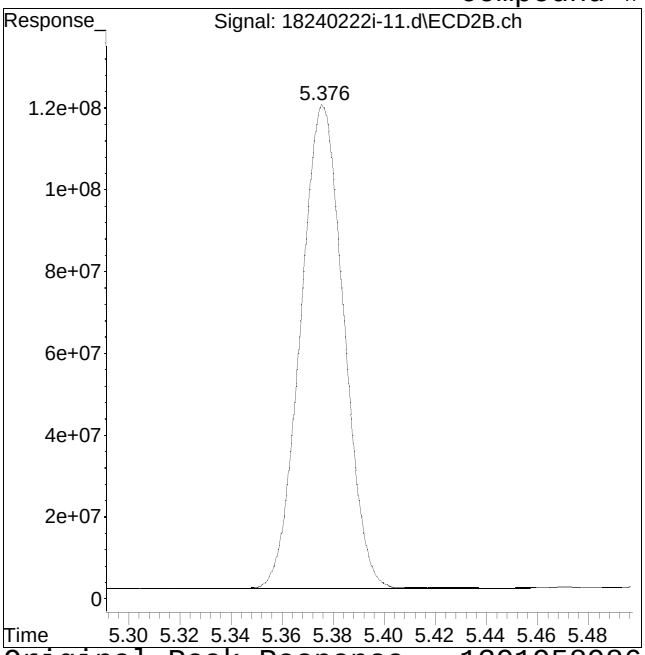


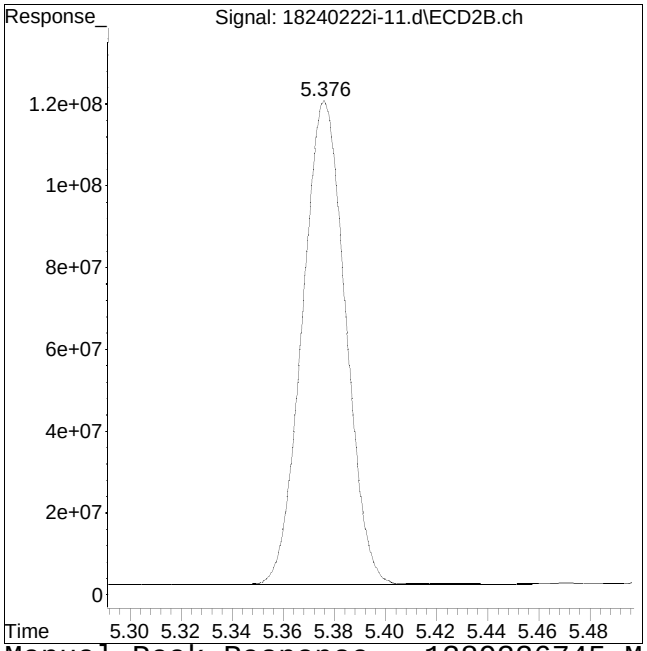
Original Peak Response = 3142880998 Manual Peak Response = 3107103382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #56: Endrin #2



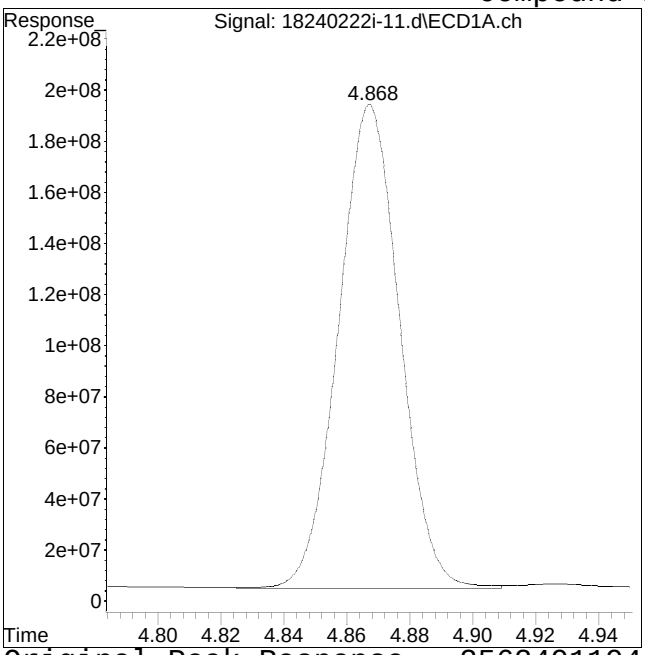


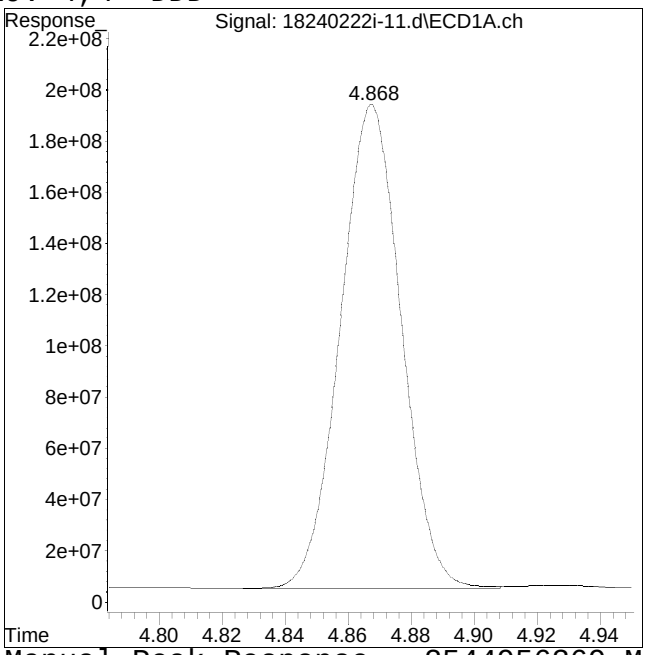
Original Peak Response = 1391958986 Manual Peak Response = 1389336745 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #19: 4,4'-DDD



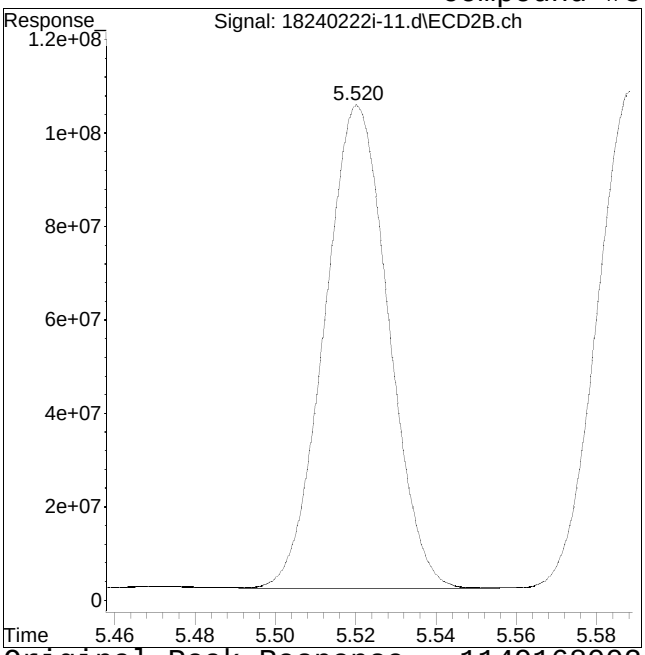


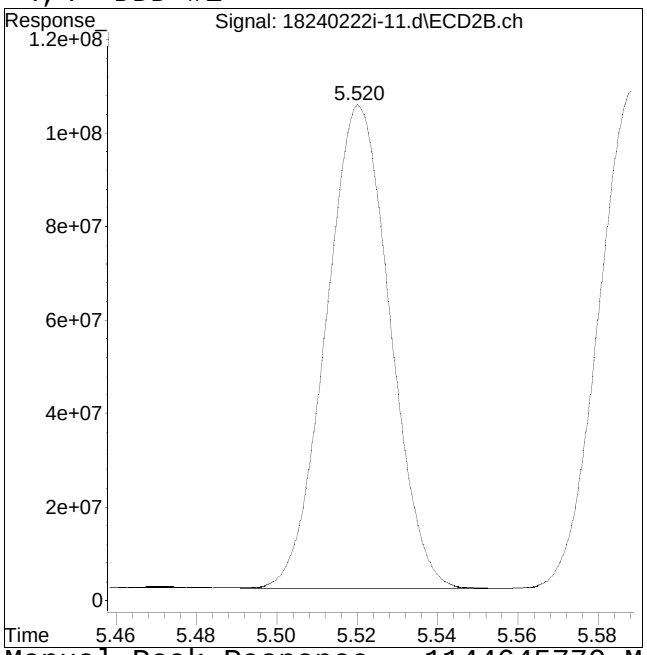
Original Peak Response = 2562491194 Manual Peak Response = 2544956369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #57: 4,4'-DDD #2



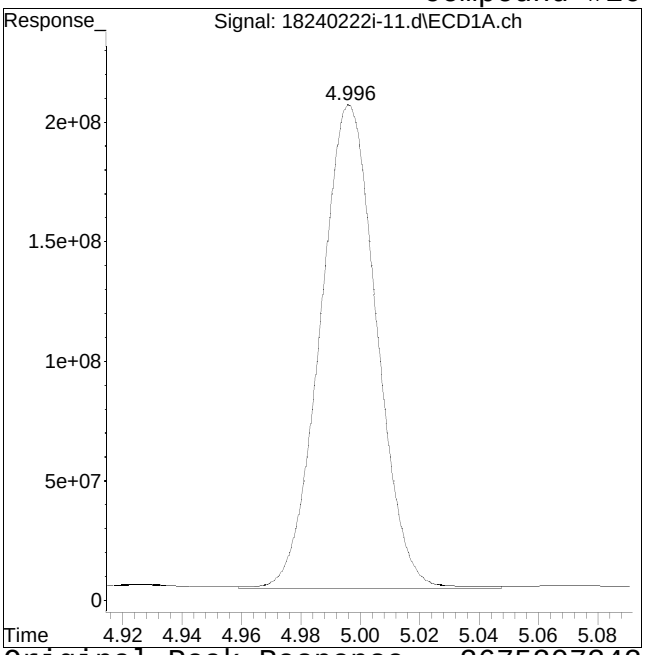


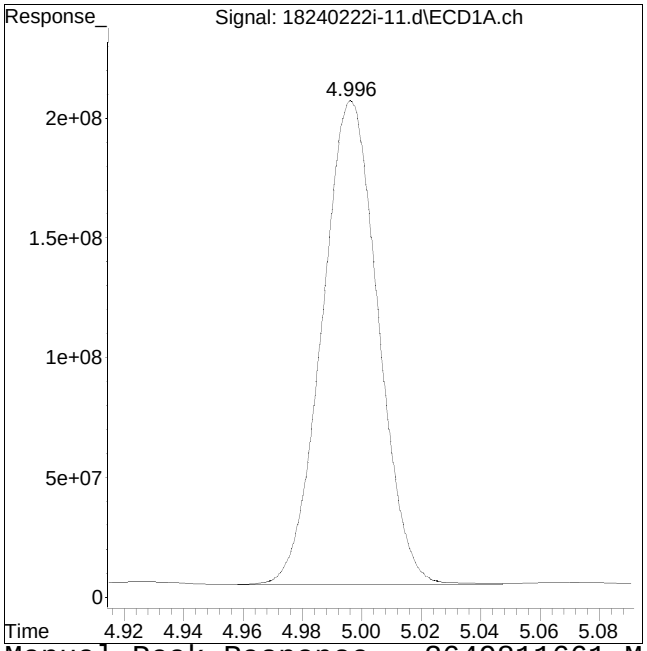
Original Peak Response = 1149168002 Manual Peak Response = 1144645770 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #20: Endosulfan II



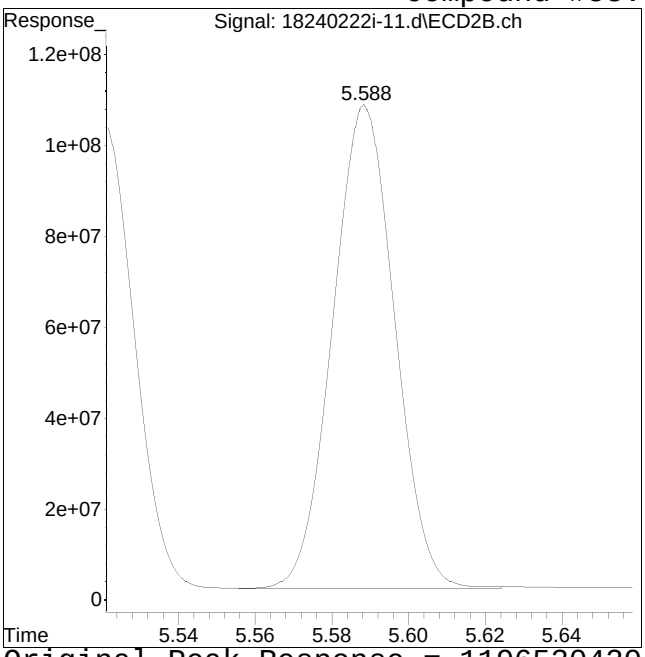


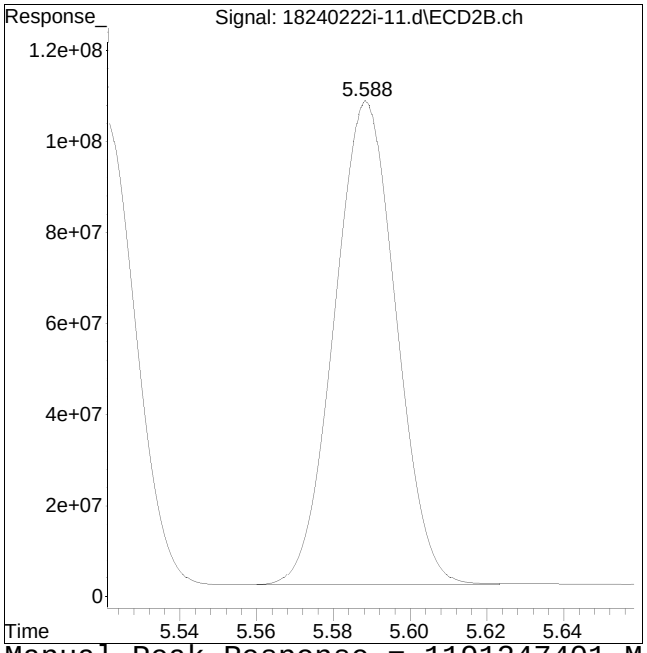
Original Peak Response = 2675207342 Manual Peak Response = 2649811661 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #58: Endosulfan II #2



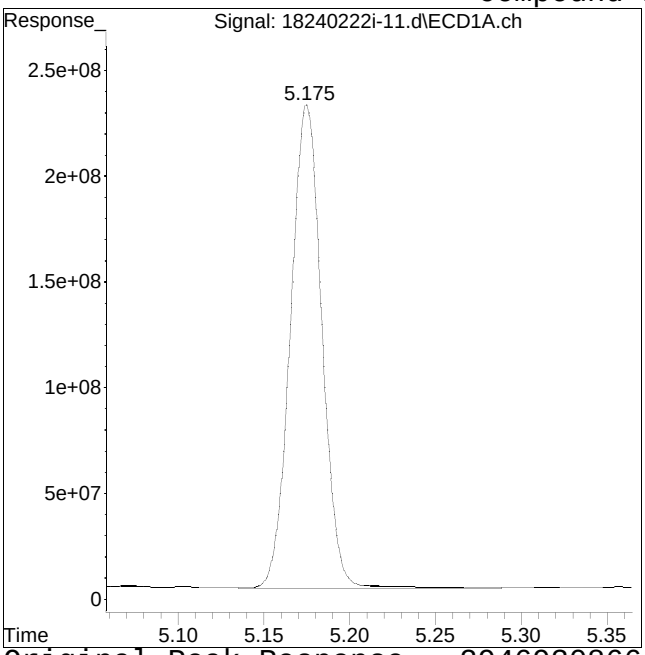


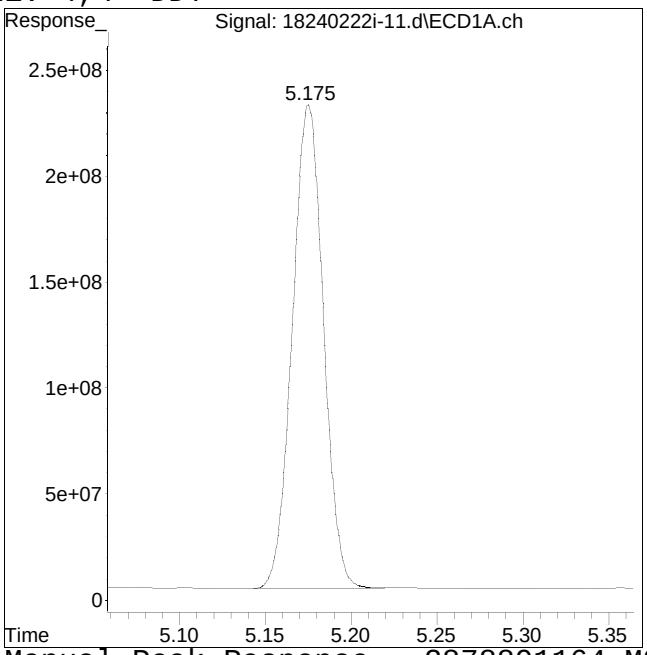
Original Peak Response = 1196530420 Manual Peak Response = 1191247401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #21: 4,4'-DDT



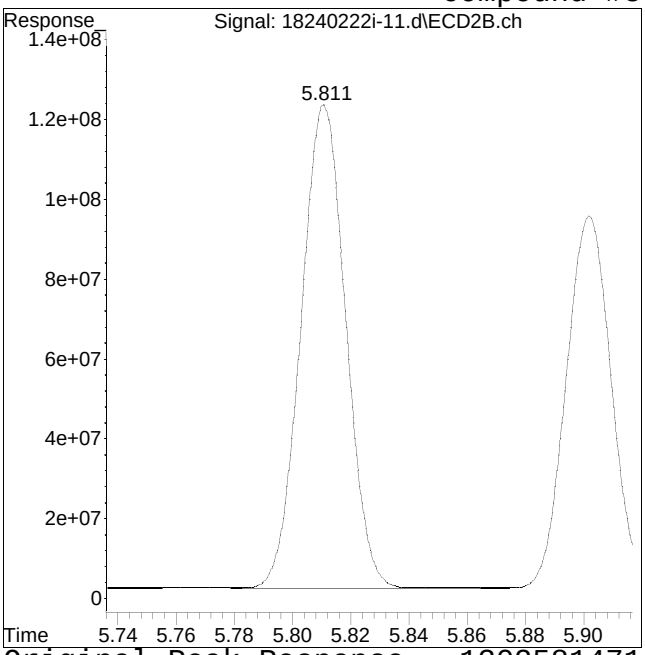


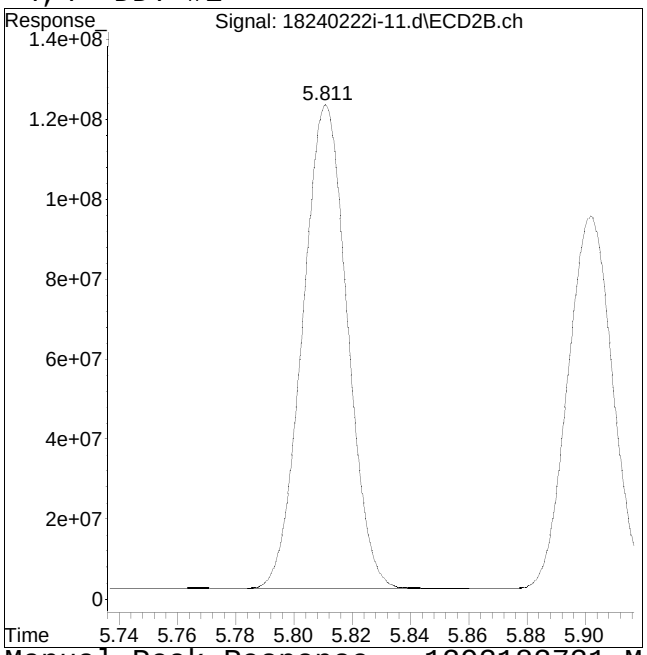
Original Peak Response = 2946930866 Manual Peak Response = 2878891164 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #59: 4,4'-DDT #2



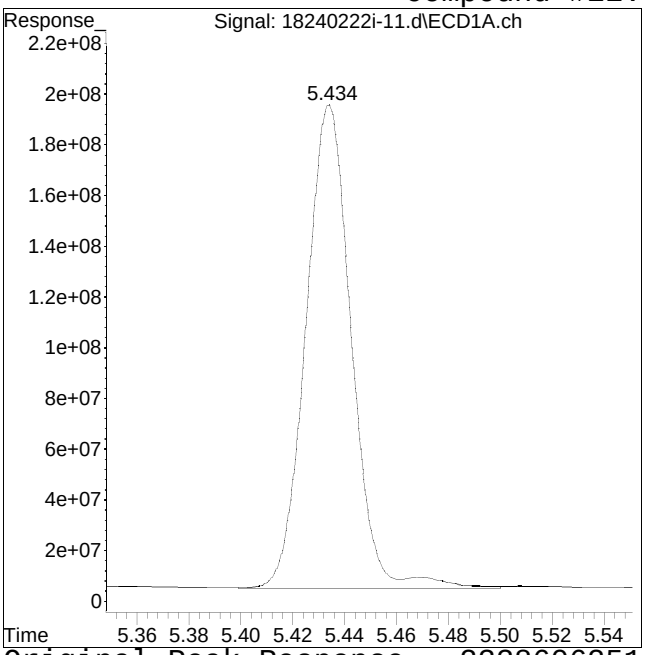


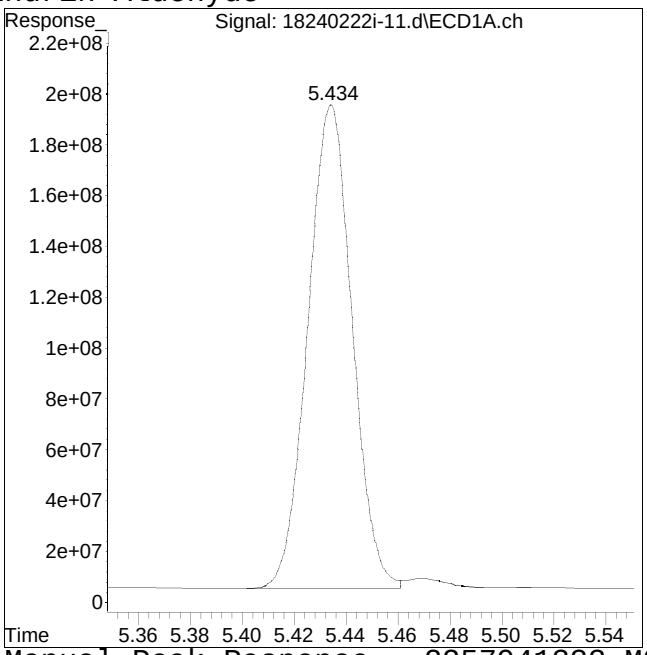
Original Peak Response = 1302581471 Manual Peak Response = 1293183731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #22: Endrin Aldehyde



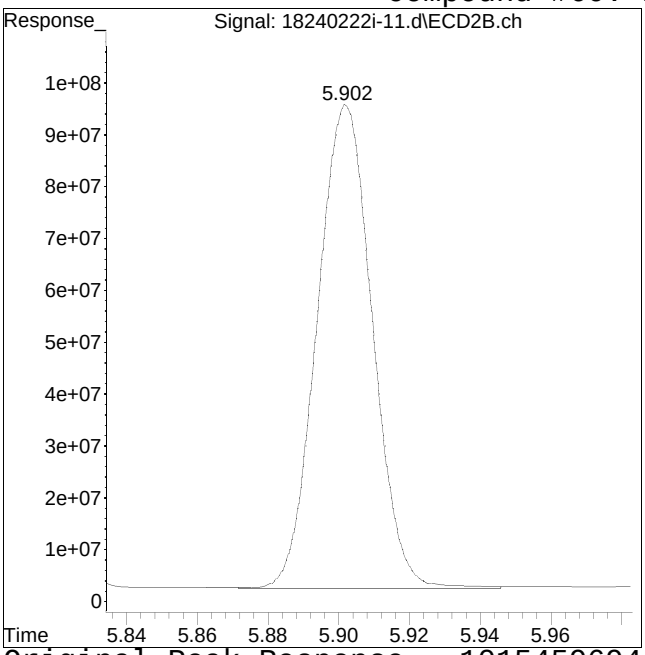


Original Peak Response = 2338606251 Manual Peak Response = 2257941333 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

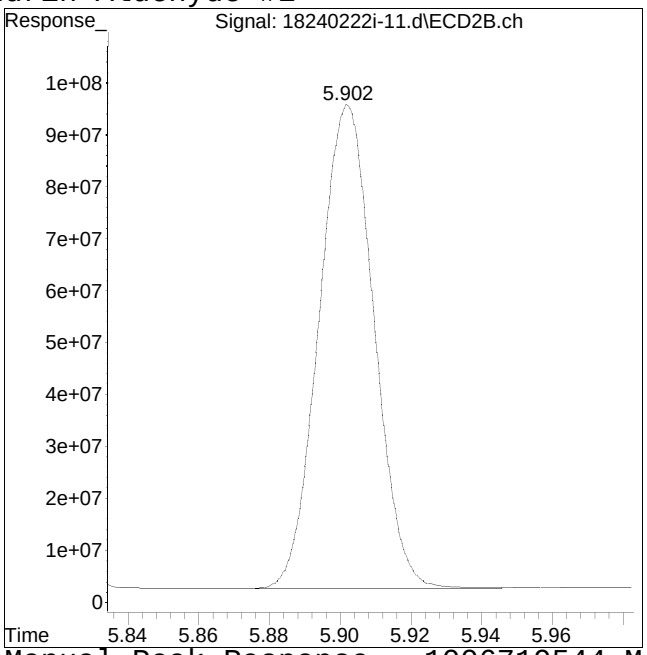
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 1015459694



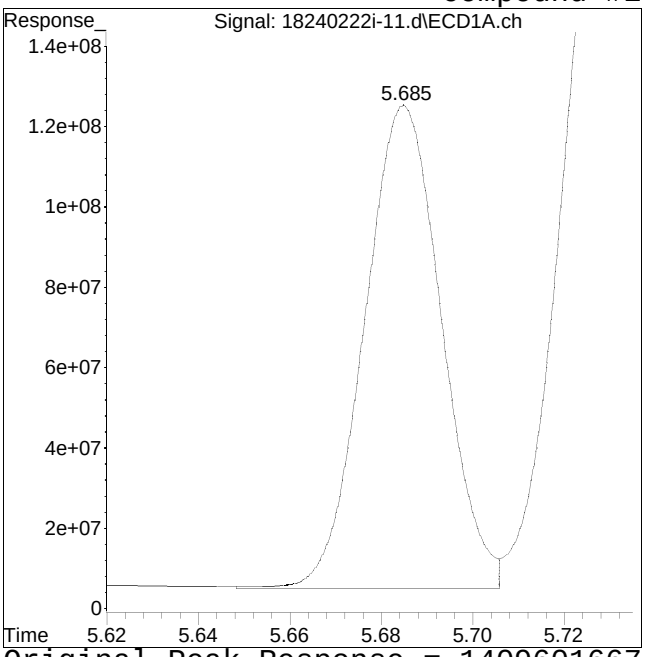
Manual Peak Response = 1006719544 M4

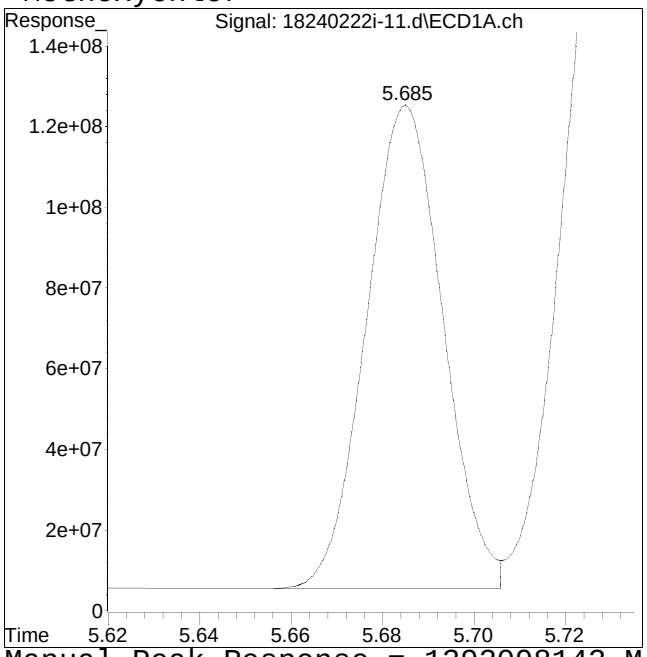
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #23: Methoxychlor



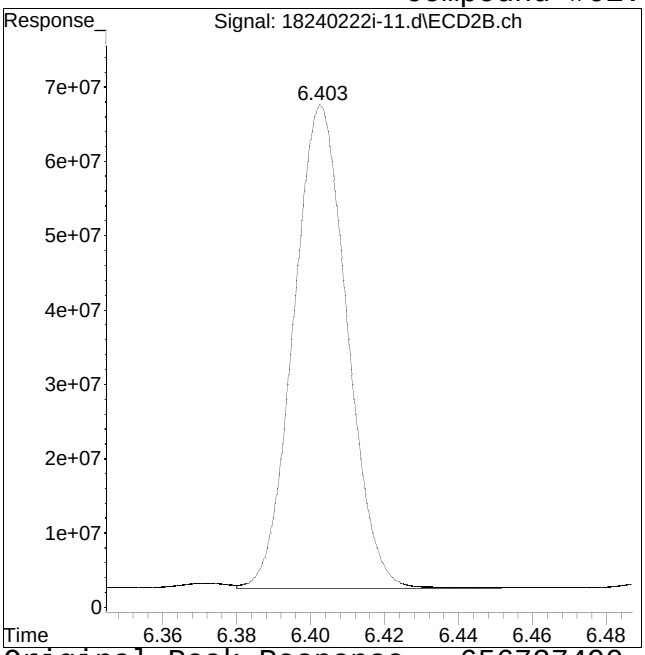


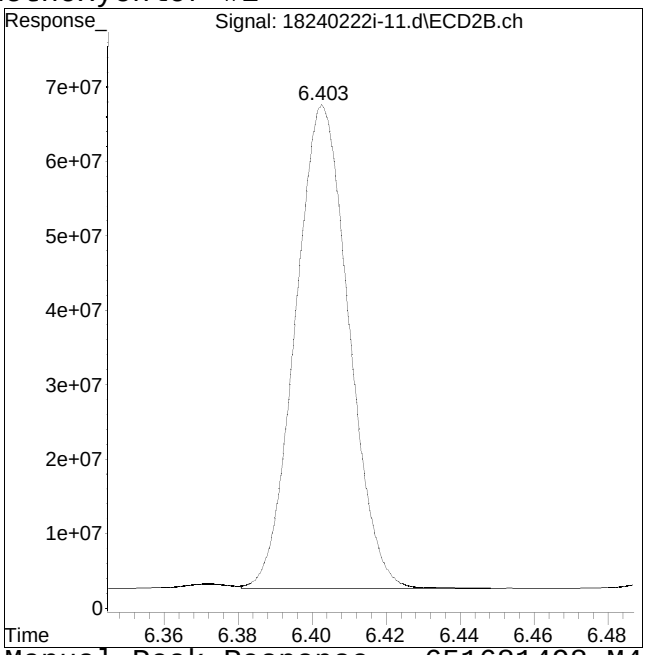
Original Peak Response = 1409601667 Manual Peak Response = 1392098143 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #61: Methoxychlor #2



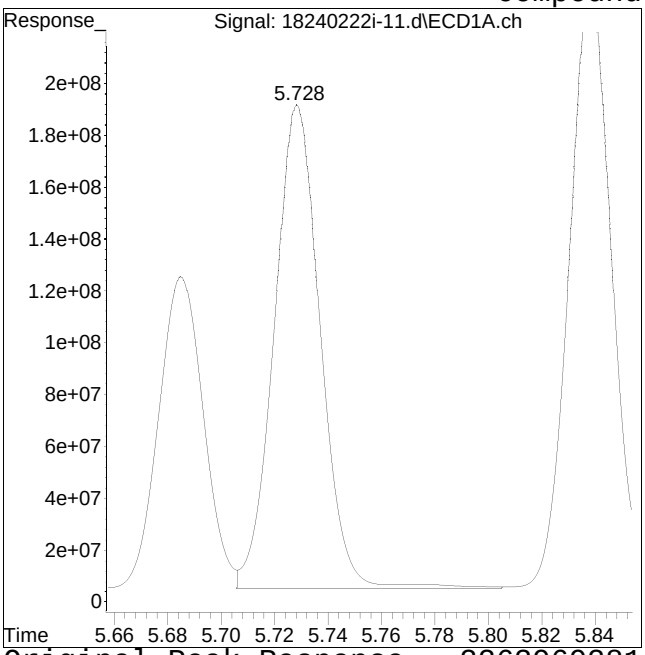


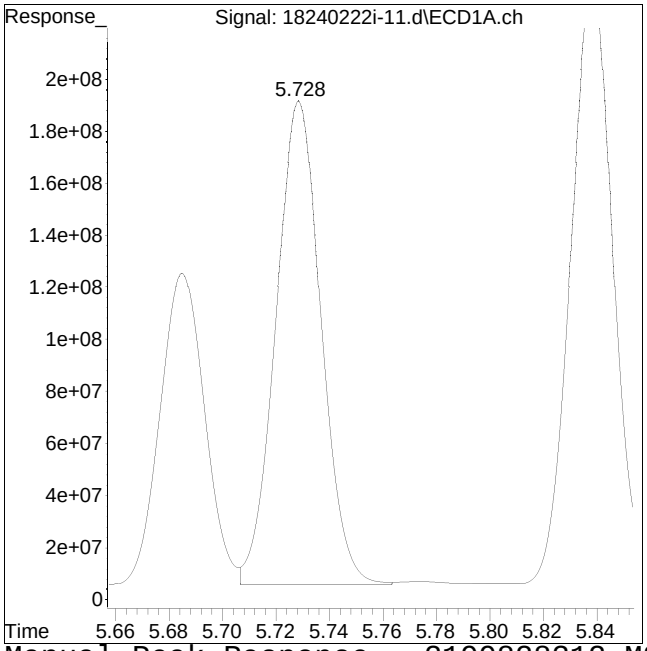
Original Peak Response = 656727490 Manual Peak Response = 651681498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #24: Mirex



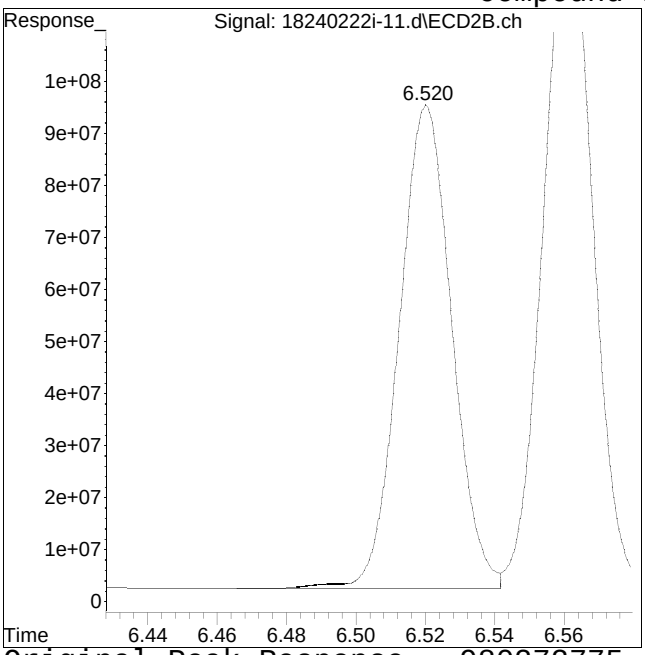


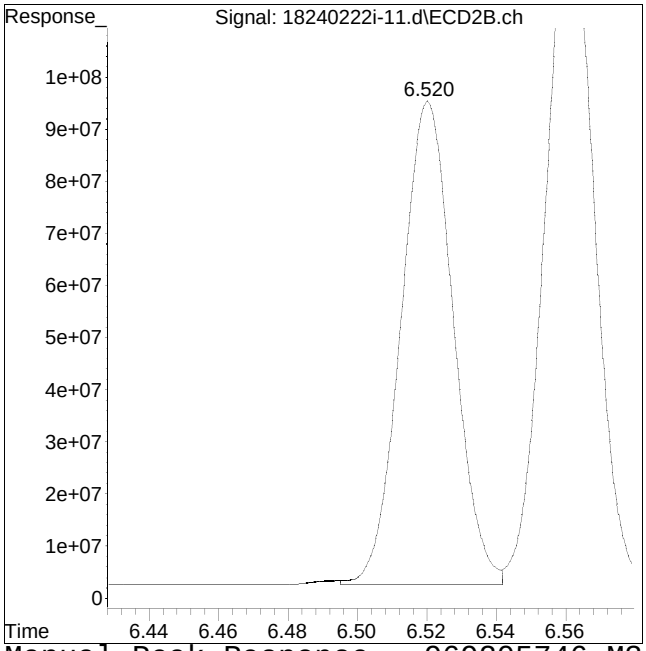
Original Peak Response = 2263969281 Manual Peak Response = 2199828312 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #62: Mirex #2



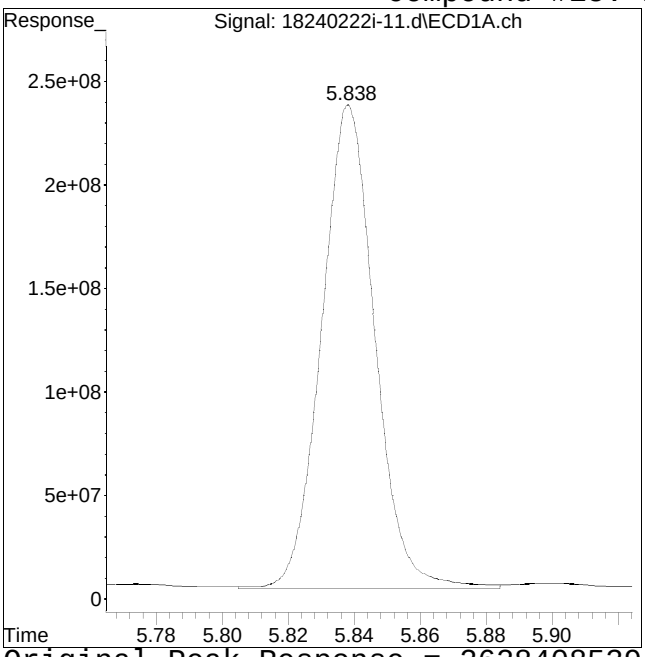


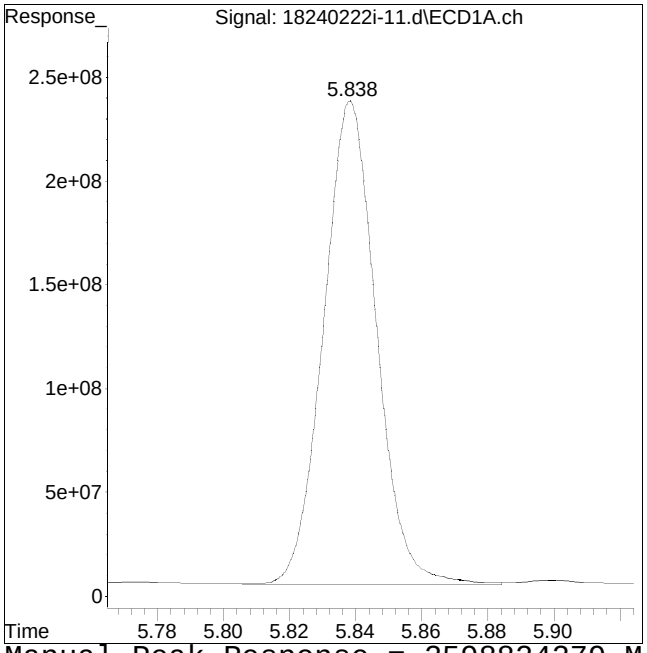
Original Peak Response = 980272775 Manual Peak Response = 969205746 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #25: Endosulfan Sulfate



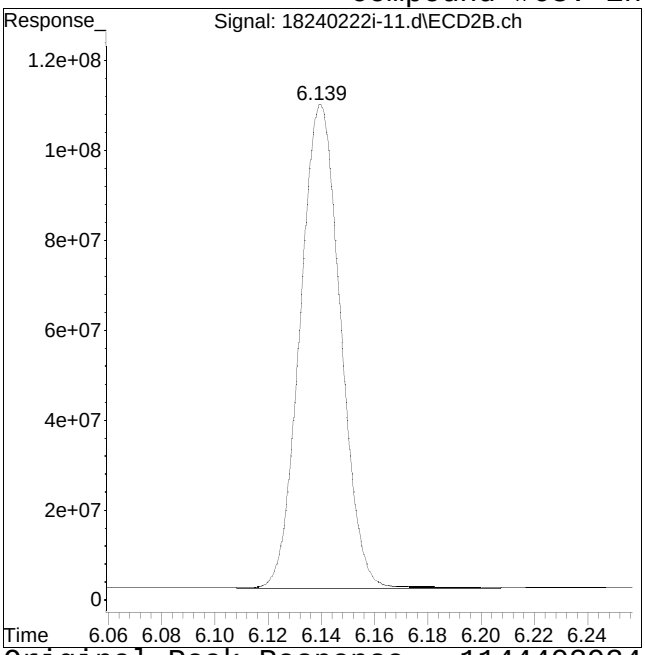


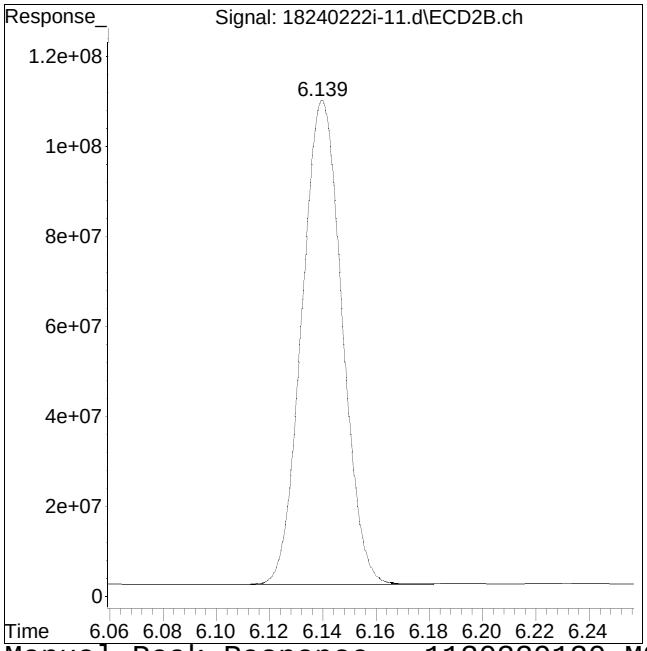
Original Peak Response = 2628408539 Manual Peak Response = 2598824279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #63: Endosulfan Sulfate #2



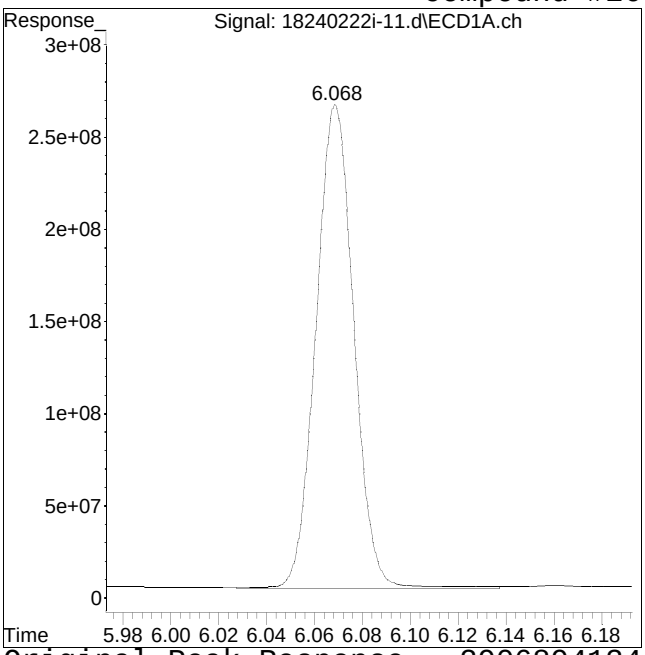


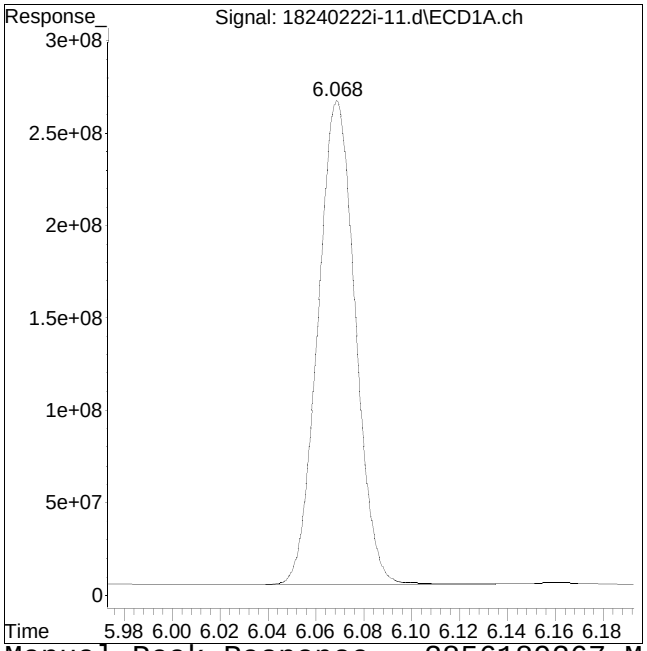
Original Peak Response = 1144403934 Manual Peak Response = 1130339130 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #26: Endrin Ketone



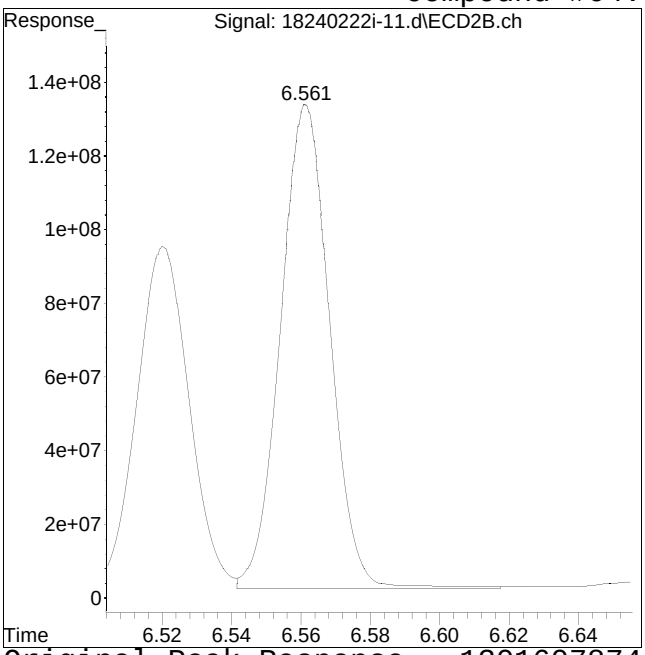


Original Peak Response = 2906894134 Manual Peak Response = 2856189267 M4
M4 = Poor automated baseline construction.

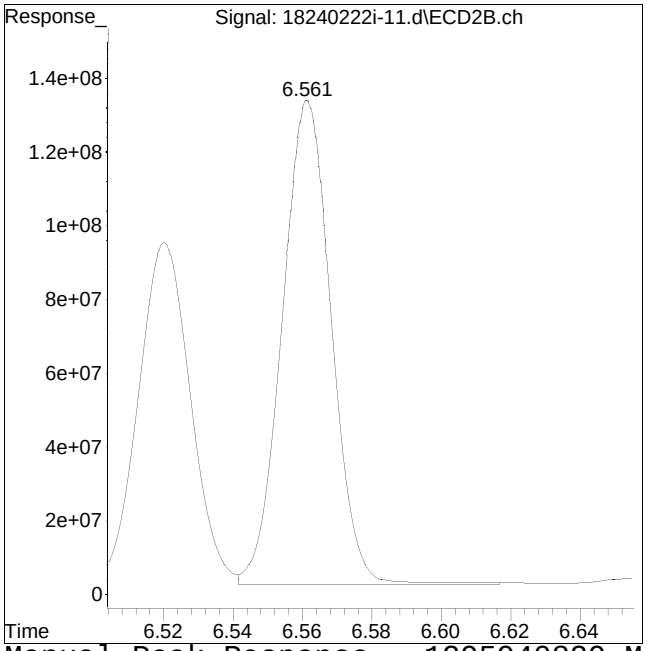
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 1301607874

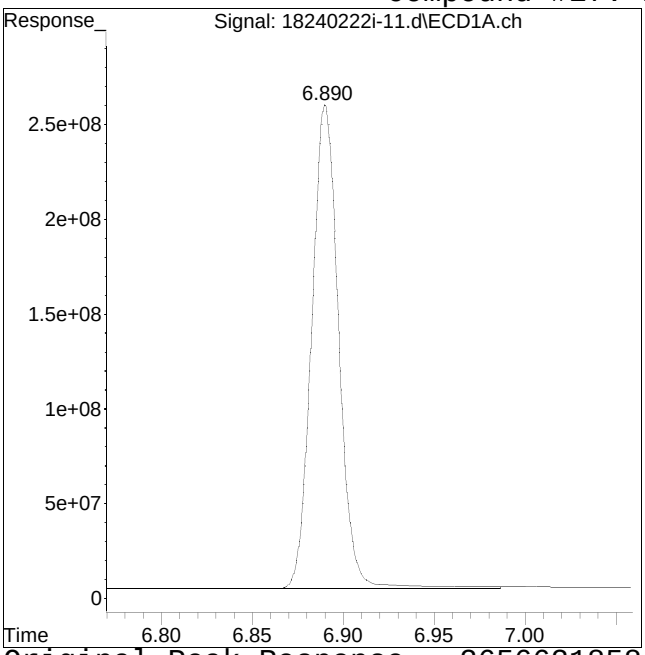


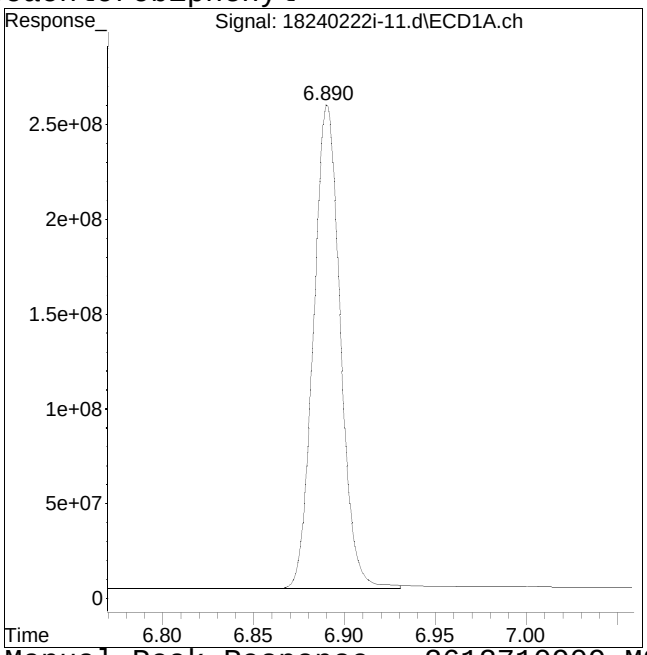
Manual Peak Response = 1295940829 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-11.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:40 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 2/27/2024 2:15 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 2656621858 Manual Peak Response = 2612710909 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:51 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:31:14 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:24:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.667	1.721	406.6E6	174.6E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.099	2.262	5516.1E6	2365.3E6	376.596M3	371.012M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		753.19%#	742.02%#
27) s	Decachlorobi	6.891	7.451	5074.7E6	1885.1E6	371.608M3	365.628
	Spiked Amount 50.000	Range 30 - 150		Recovery =		743.22%#	731.26%#
	Target Compounds						
3)	Hexachlorobe	2.338	2.593	6063.6E6	2524.9E6	381.659M3	375.325
4)	alpha-BHC	2.450	2.696	8320.5E6	3579.2E6	398.147M3	391.185M4
5)	gamma-BHC (l	2.667	2.982	7484.2E6	3242.1E6	393.780M3	387.691
6)	beta-BHC	2.731	3.052	3188.2E6	1421.9E6	383.386M4	380.706
7)	delta-BHC	2.863	3.313	7693.4E6	3357.8E6	399.043M4	391.596M4
8)	Heptachlor	3.029	3.370	6566.7E6	2908.1E6	364.246M4	363.908M4
9)	Aldrin	3.275	3.681	6325.5E6	2783.1E6	374.191M4	375.021M4
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	3.831	4.288	5683.6E6	2555.2E6	366.995M3	367.291
13)	gamma-Chlord	3.956	4.505	5416.8E6	2420.6E6	377.355M3	381.577M4
14)	alpha-Chlord	4.091	4.677	6009.2E6	2662.6E6	374.075M3	377.944
15)	4,4'-DDE	4.196	4.902	6178.7E6	2658.2E6	389.819M4	377.375
16)	Endosulfan I	4.225	4.737	5335.0E6	2429.1E6	363.109M3	368.871M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:51 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:31:14 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:24:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)		Dieldrin	4.487	5.058	5873.4E6	2595.2E6	373.512M4	375.980M4
18)		Endrin	4.742	5.376	5947.6E6	2591.4E6	369.214M4	372.693M4
19)		4,4'-DDD	4.867	5.520	4955.0E6	2173.9E6	384.138M4	381.140M4
20)		Endosulfan I	4.996	5.589	4903.9E6	2163.9E6	354.000M4	355.012M3
21)		4,4'-DDT	5.175	5.811	5540.5E6	2436.5E6	380.907M3	374.886M4
22)		Endrin Aldeh	5.434	5.902	4350.0E6	1909.7E6	379.299M3	382.193M3
23)		Methoxychlor	5.686	6.403	2581.7E6	1187.9E6	346.036M4	347.960M4
24)		Mirex	5.729	6.520	4241.6E6	1818.5E6	366.270M4	363.281M4
25)		Endosulfan S	5.839	6.140	5004.2E6	2125.1E6	371.236M4	370.093M3
26)		Endrin Keton	6.069	6.561	5424.7E6	2411.8E6	362.059M4	363.083M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:51 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:31:14 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:24:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

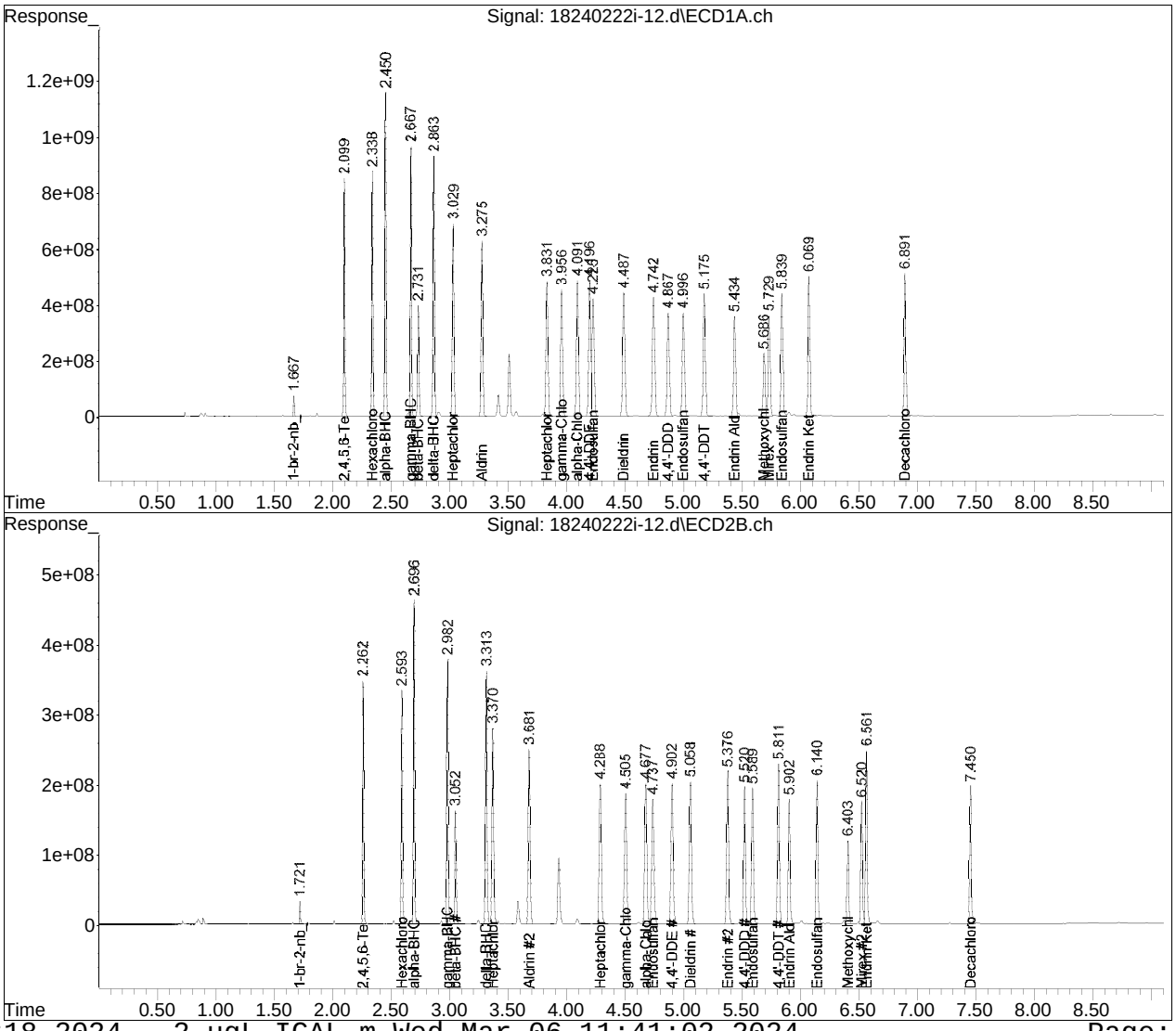
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 2:51 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 14:31:14 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 14:24:42 2024
Response via : Initial Calibration
Integrator: ChemStation

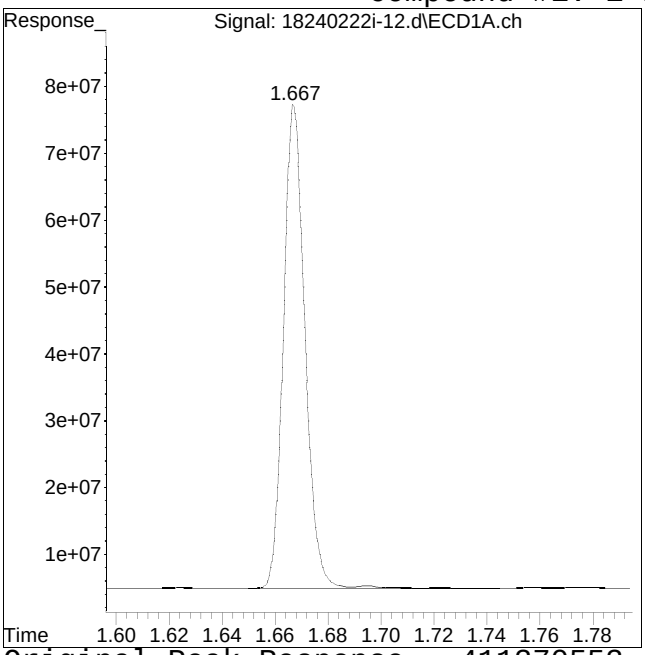
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

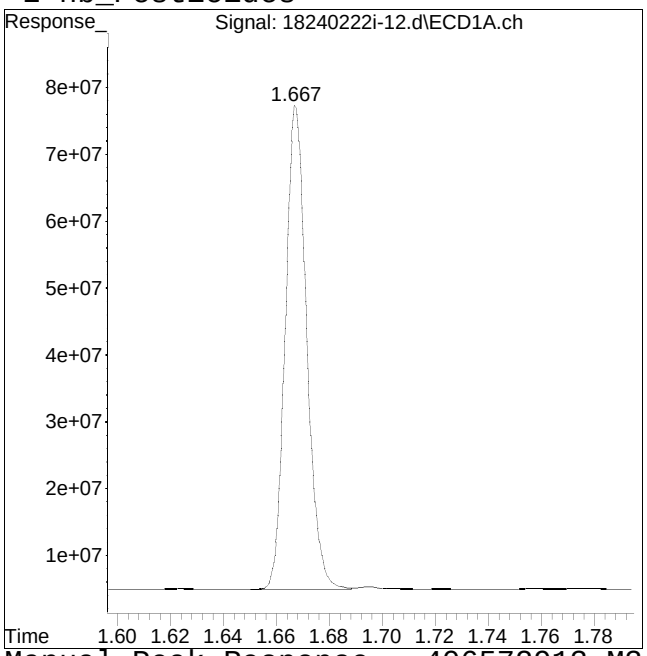


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #1: 1-br-2-nb_Pesticides



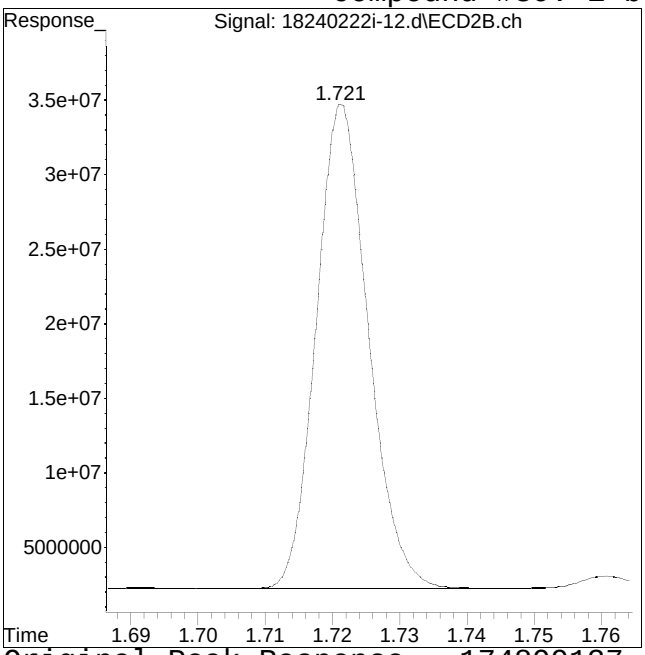


Original Peak Response = 411370553 Manual Peak Response = 406572913 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

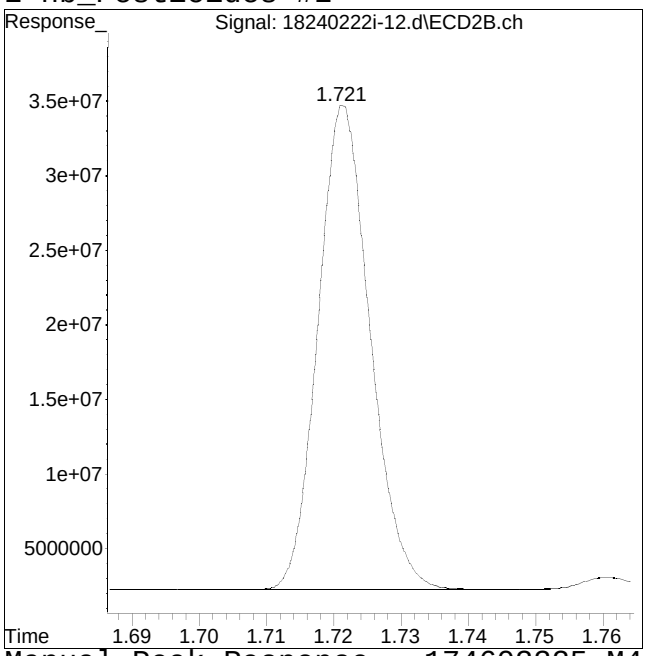
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 174899137

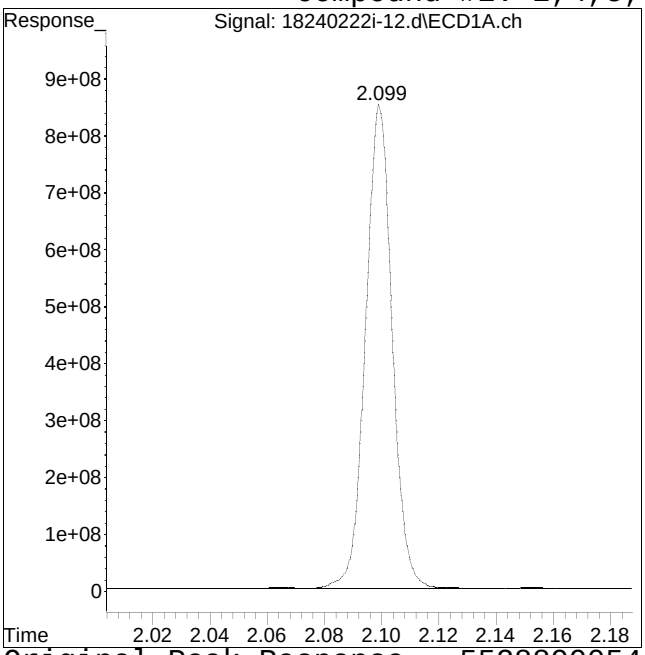


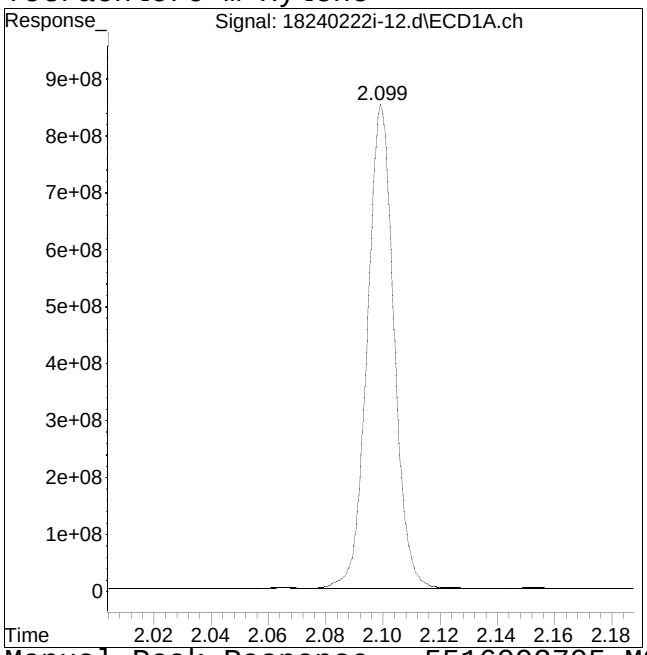
Manual Peak Response = 174603325 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



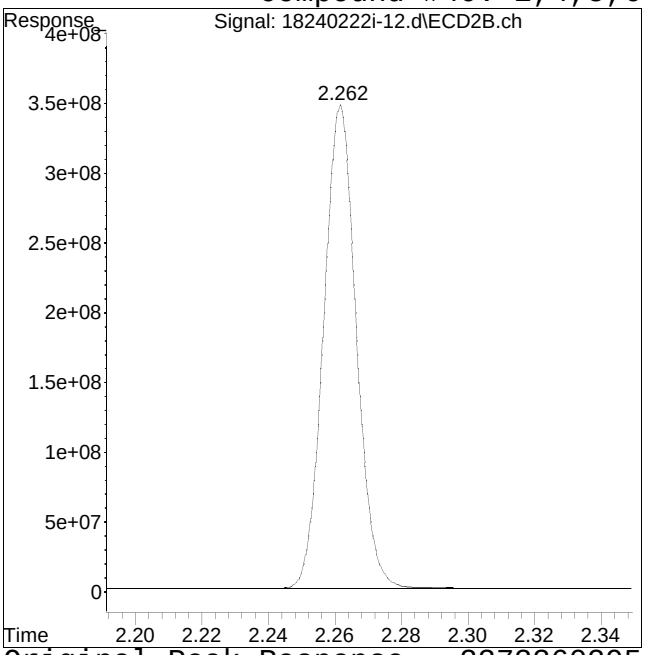


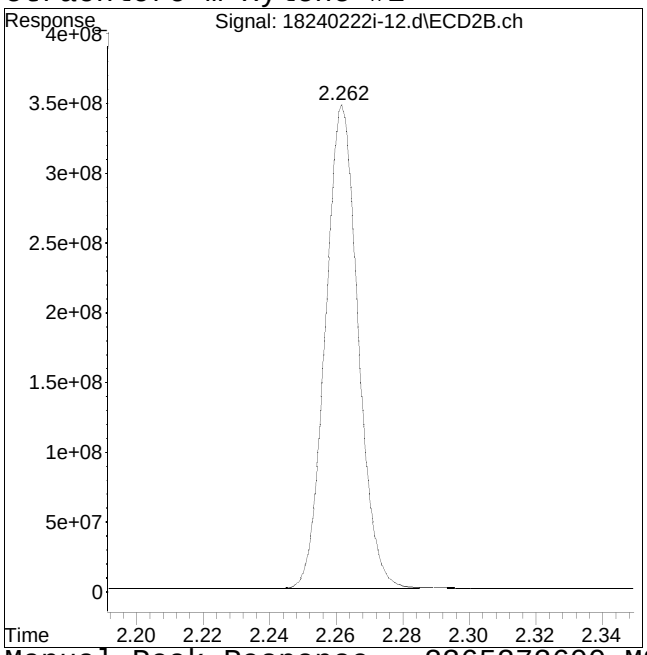
Original Peak Response = 5528899054 Manual Peak Response = 5516092705 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



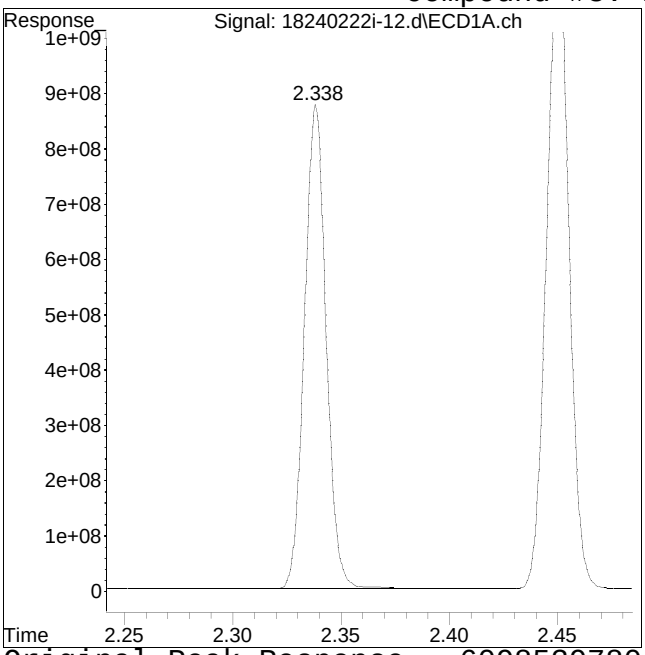


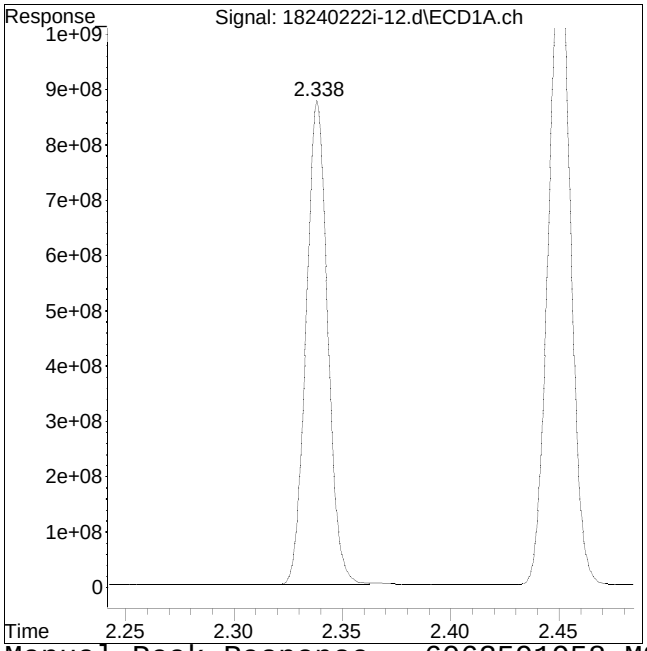
Original Peak Response = 2373360295 Manual Peak Response = 2365273600 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #3: Hexachlorobenzene



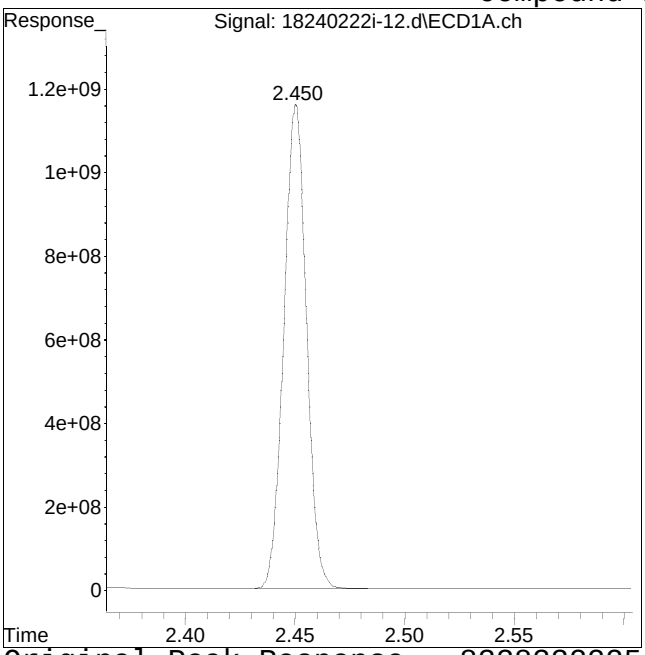


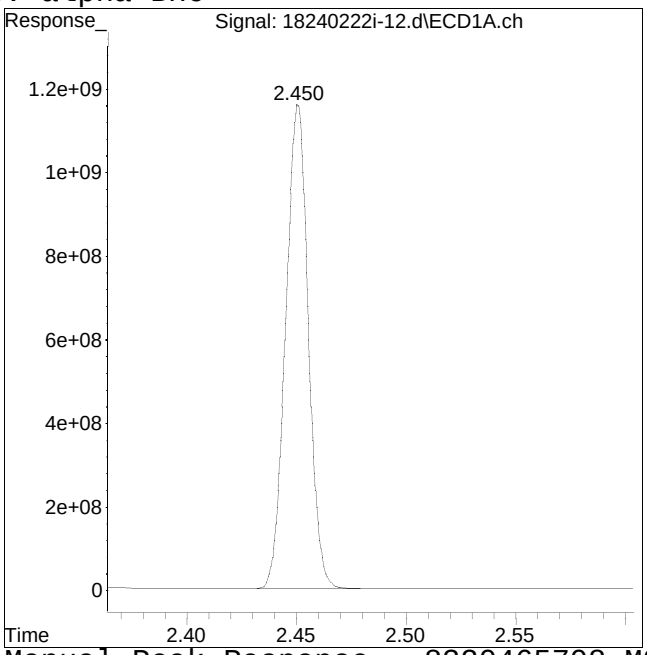
Original Peak Response = 6098539780 Manual Peak Response = 6063591958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #4: alpha-BHC



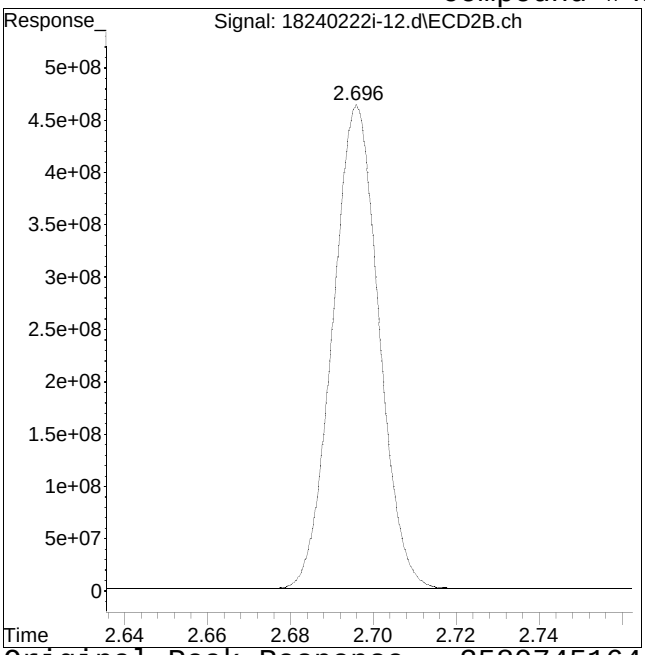


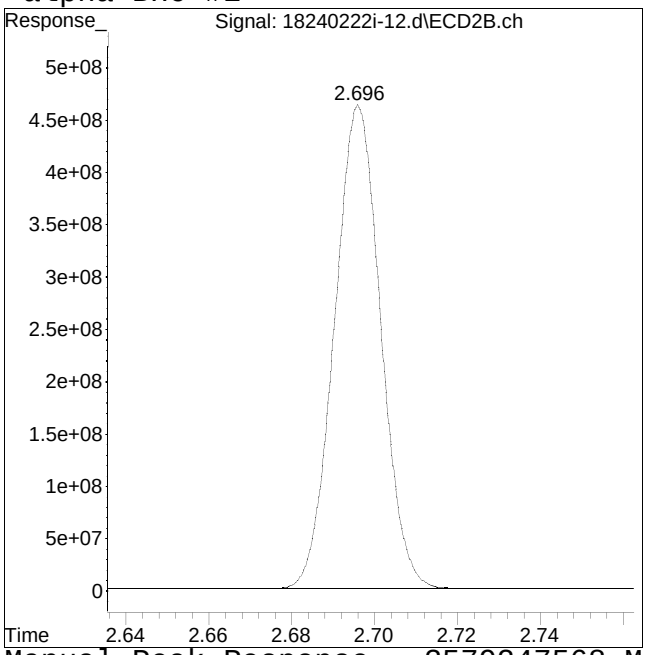
Original Peak Response = 8338332225 Manual Peak Response = 8320465708 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #42: alpha-BHC #2



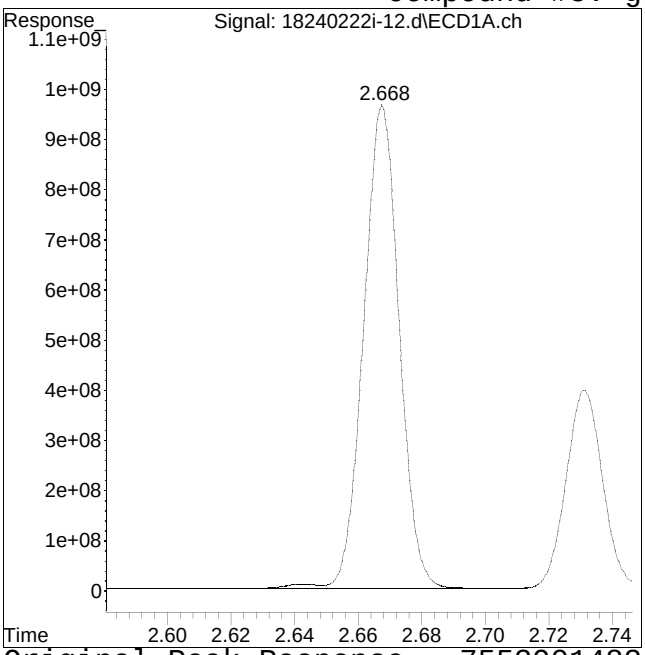


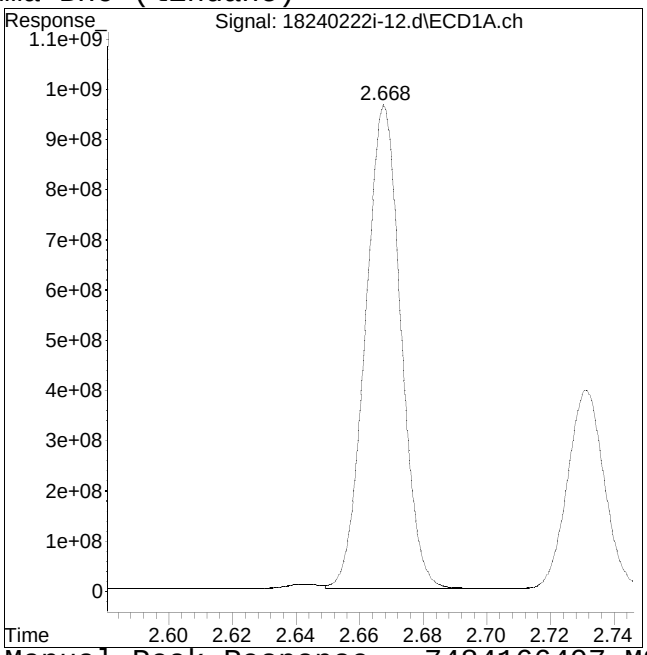
Original Peak Response = 3580745164 Manual Peak Response = 3579247568 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #5: gamma-BHC (lindane)



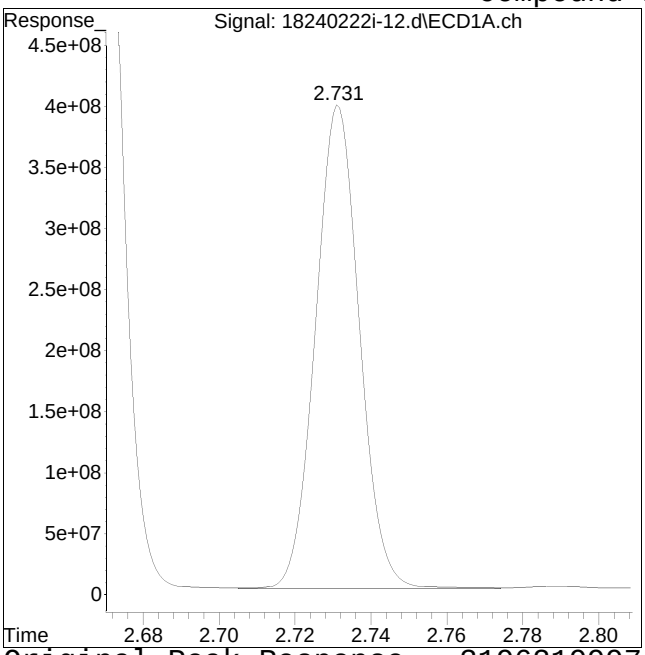


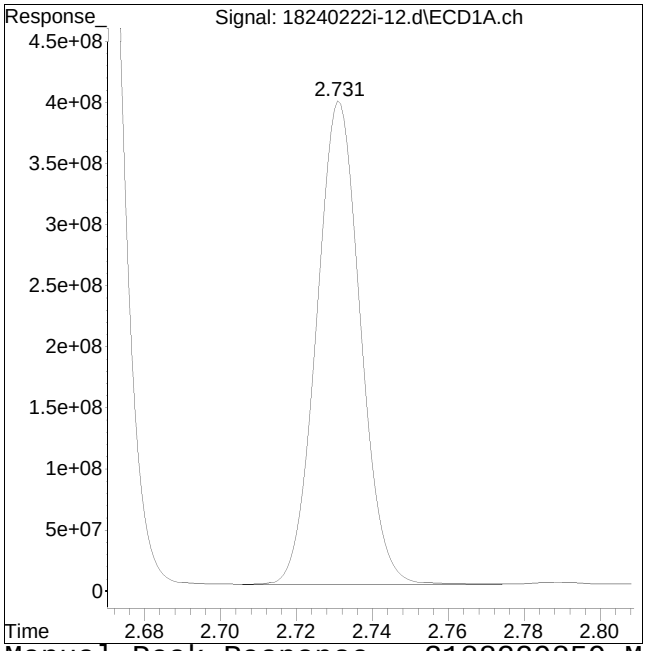
Original Peak Response = 7553901483 Manual Peak Response = 7484166407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #6: beta-BHC



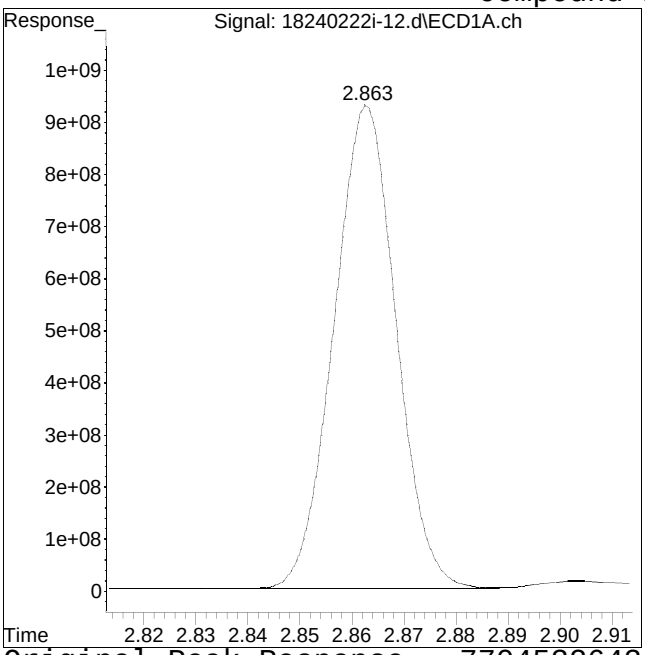


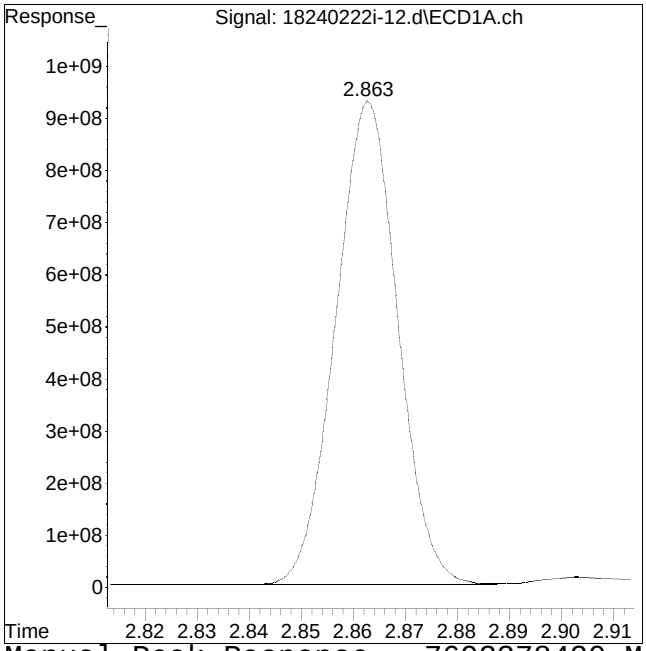
Original Peak Response = 3196219997 Manual Peak Response = 3188229859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #7: delta-BHC



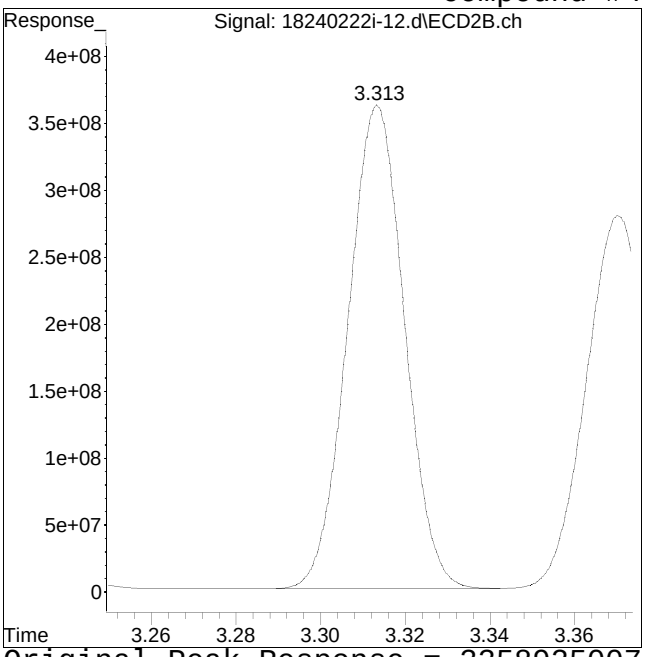


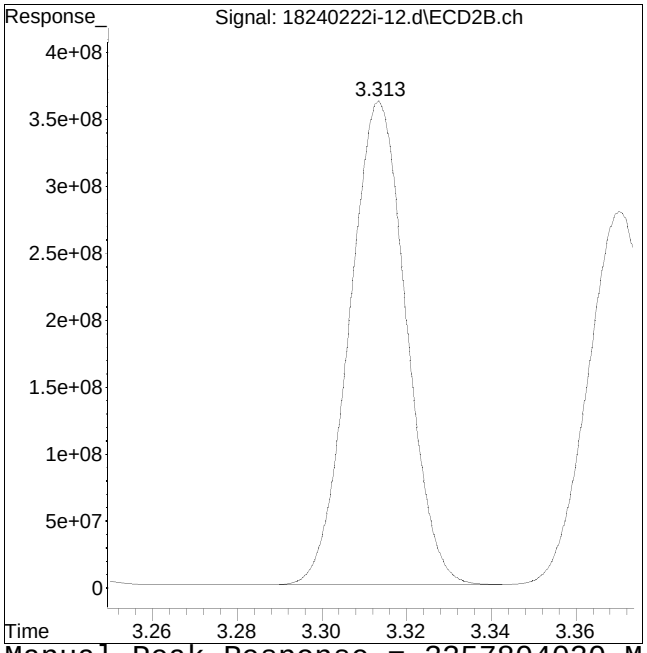
Original Peak Response = 7704532643 Manual Peak Response = 7693378420 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #45: delta-BHC #2



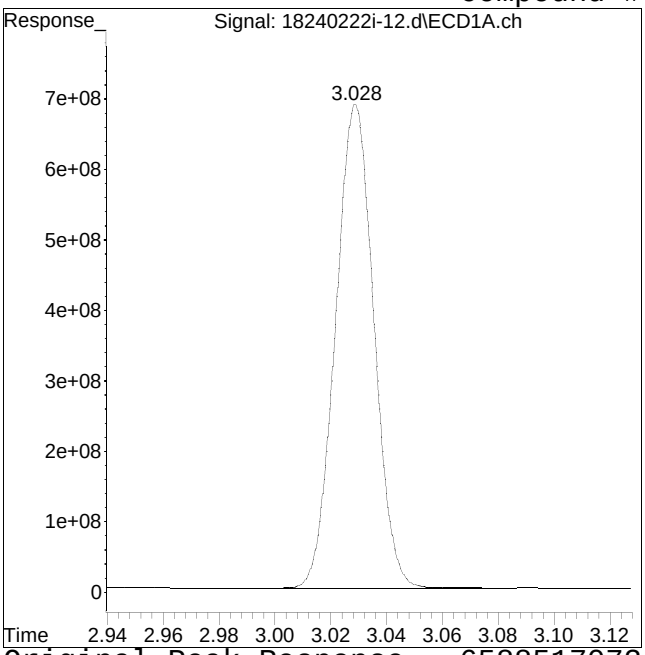


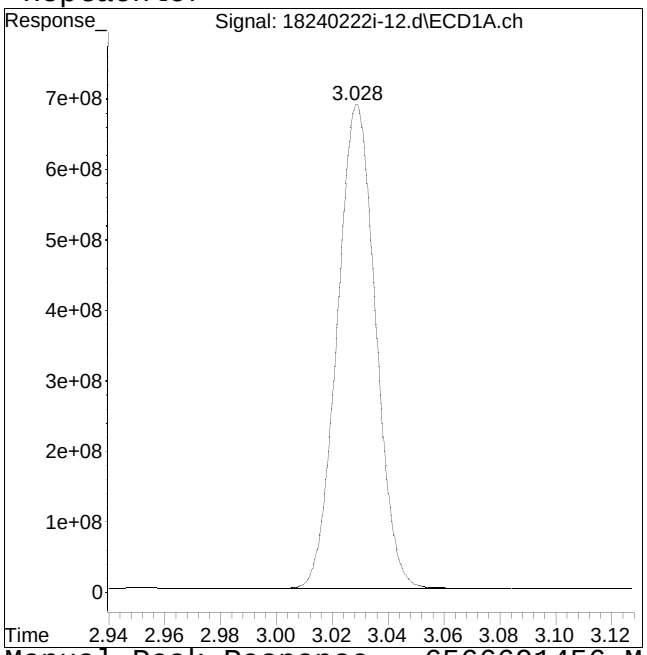
Original Peak Response = 3358925007 Manual Peak Response = 3357804030 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #8: Heptachlor



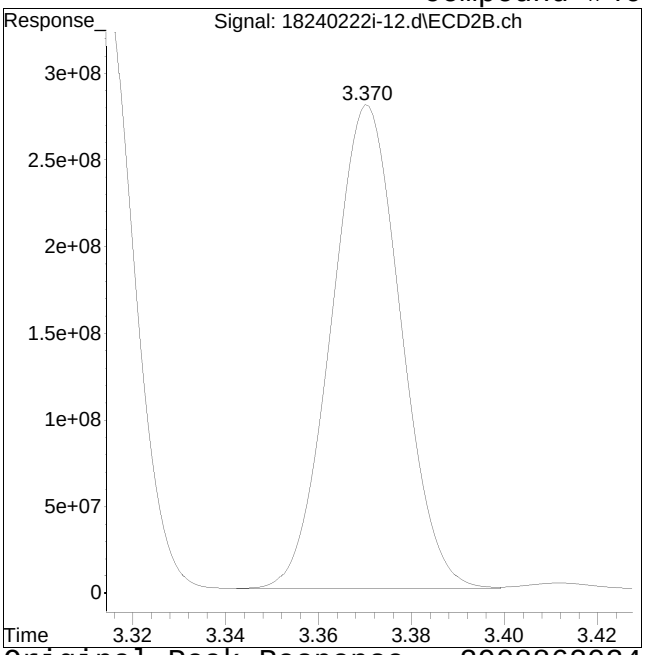


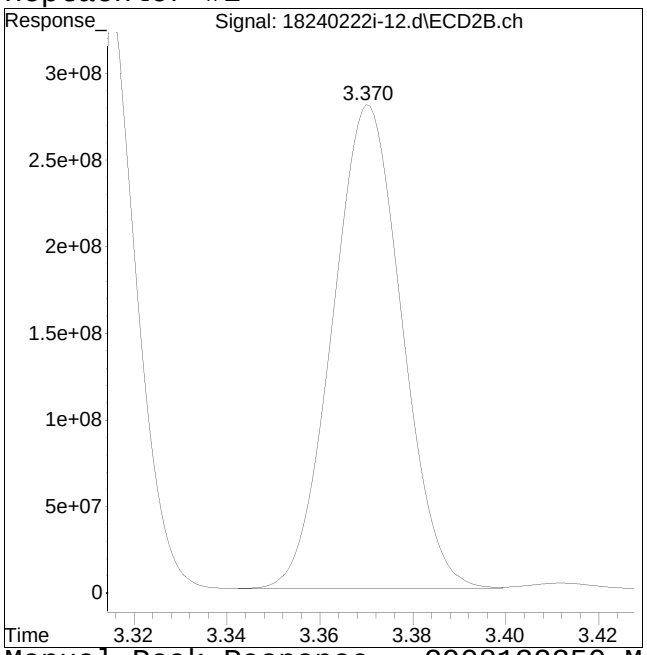
Original Peak Response = 6588517073 Manual Peak Response = 6566691456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #46: Heptachlor #2



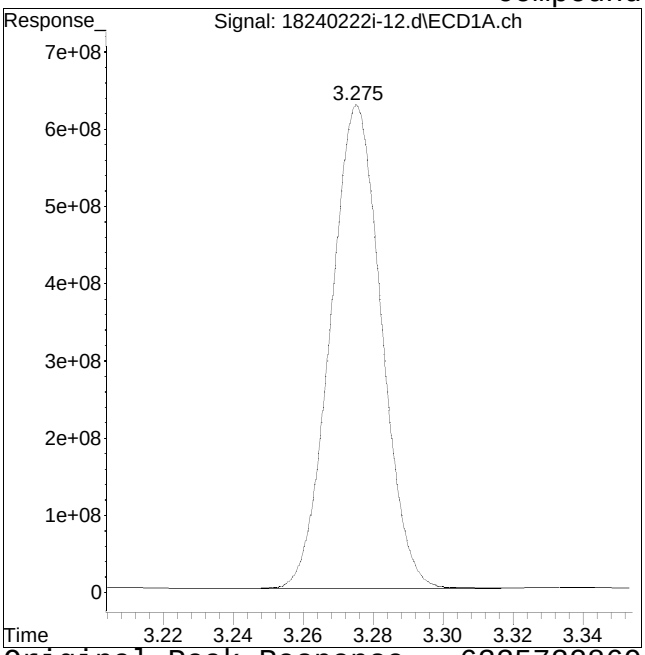


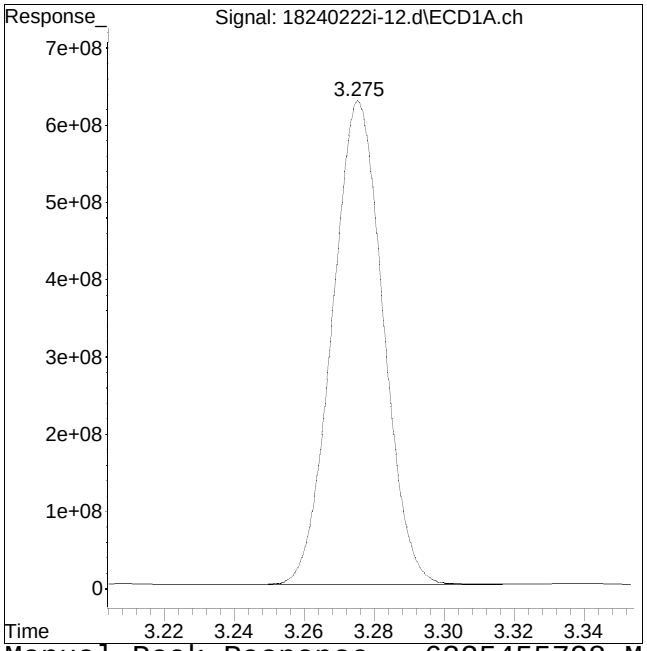
Original Peak Response = 2908862024 Manual Peak Response = 2908132350 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #9: Aldrin



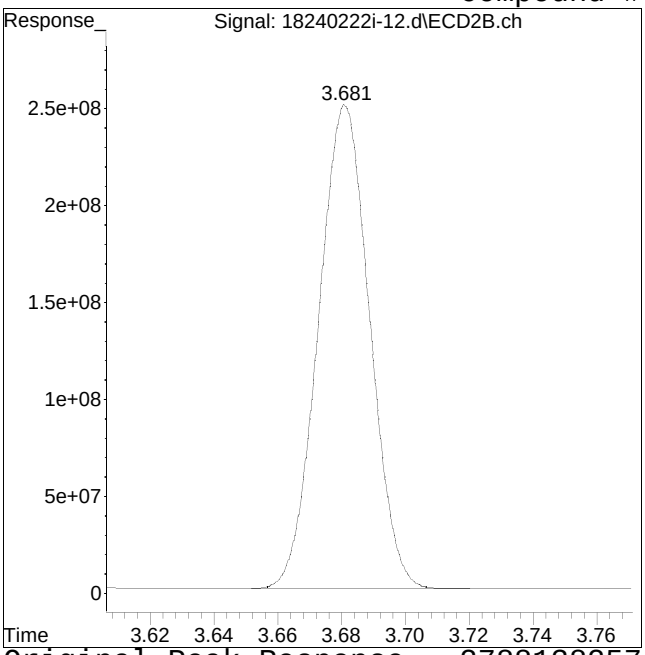


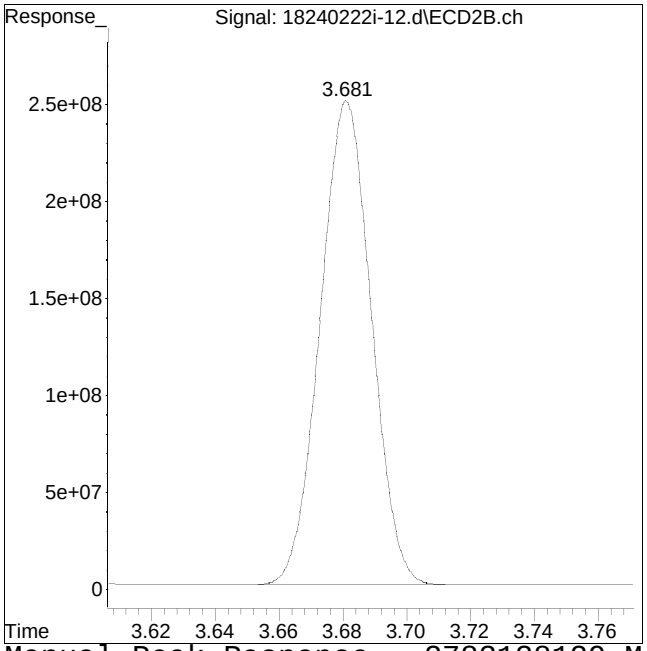
Original Peak Response = 6335722869 Manual Peak Response = 6325455728 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #47: Aldrin #2



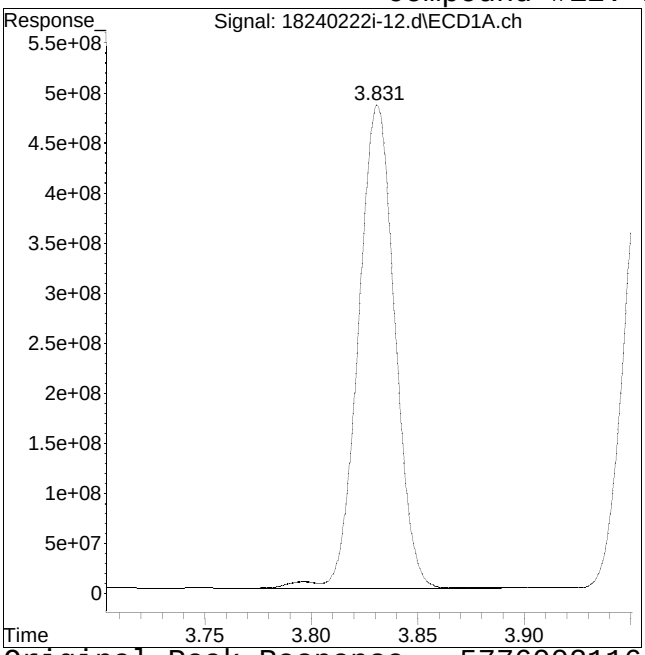


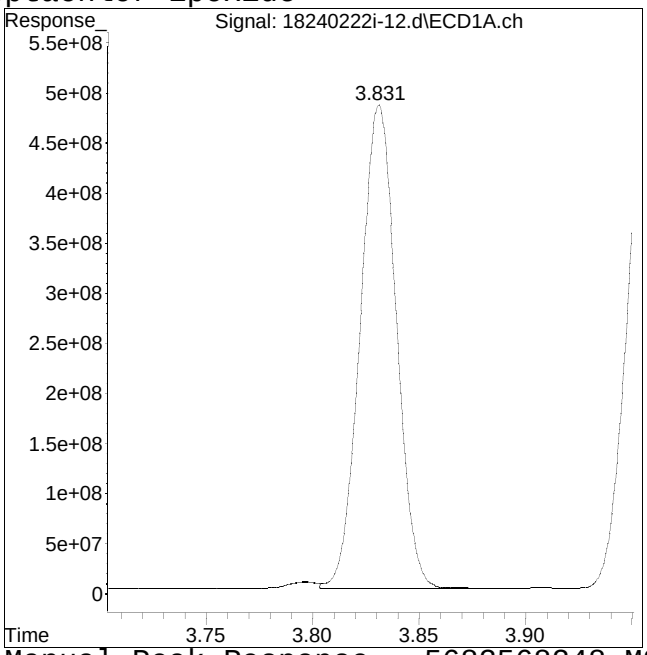
Original Peak Response = 2788138257 Manual Peak Response = 2783138129 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #12: Heptachlor Epoxide



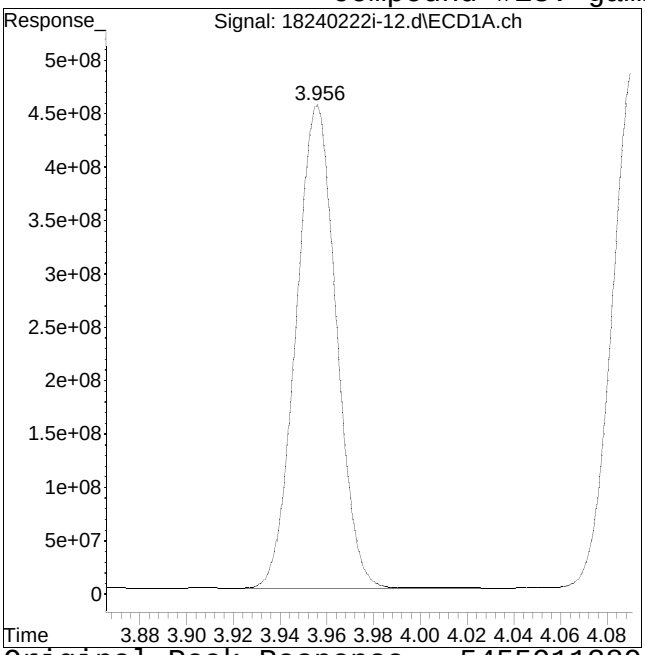


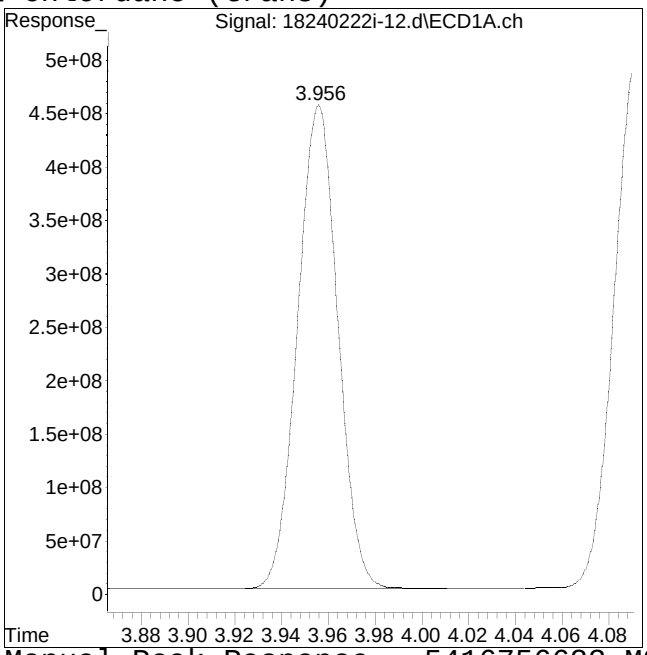
Original Peak Response = 5776002116 Manual Peak Response = 5683568248 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #13: gamma-Chlordane (trans)



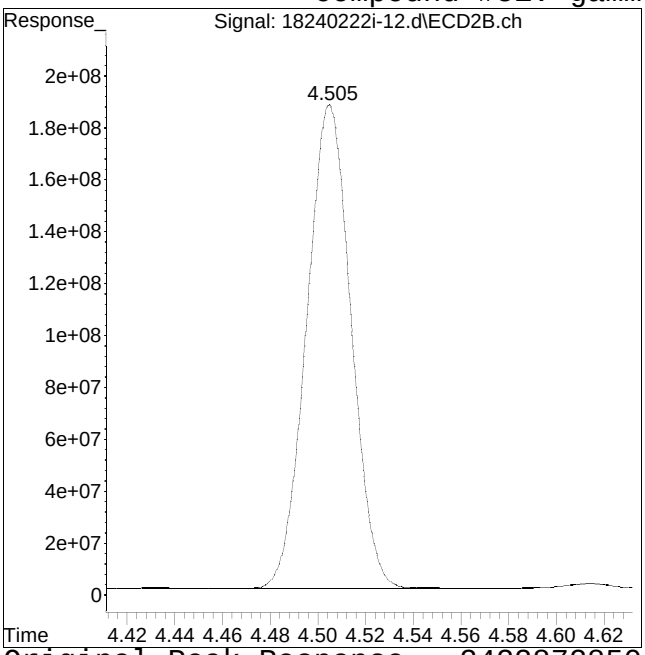


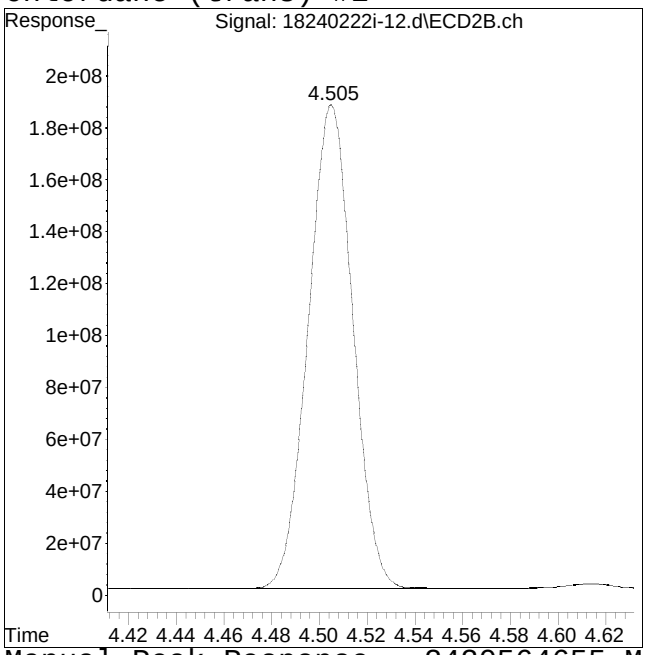
Original Peak Response = 5455911389 Manual Peak Response = 5416756623 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #51: gamma-Chlordane (trans) #2



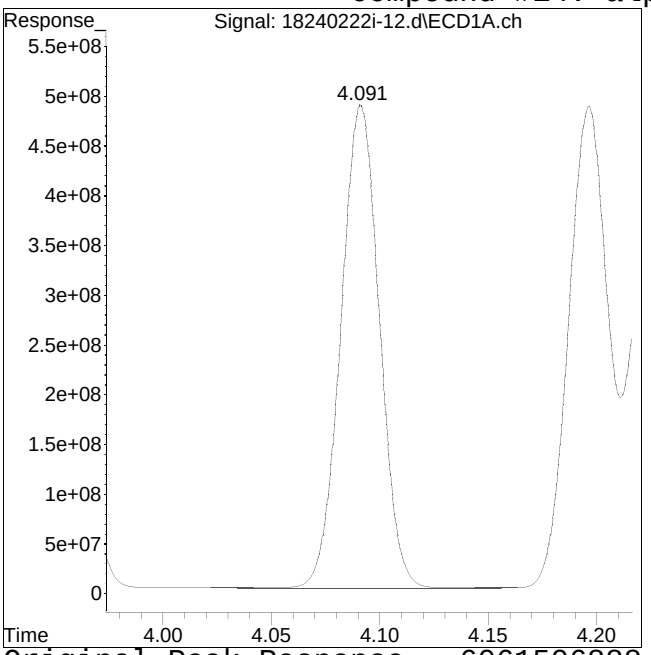


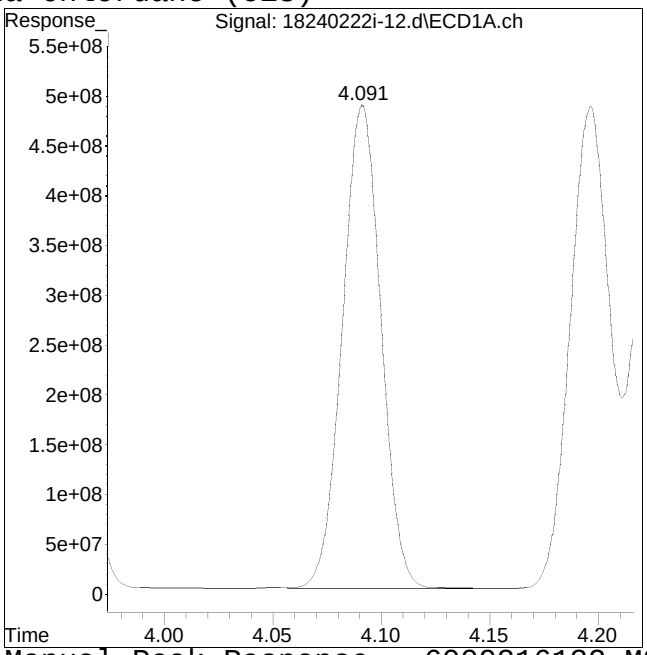
Original Peak Response = 2422872850 Manual Peak Response = 2420564655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #14: alpha-Chlordane (cis)



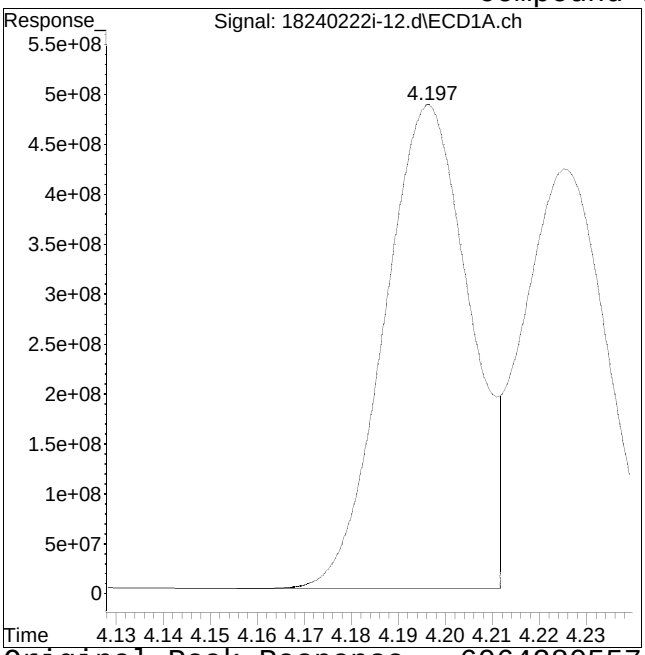


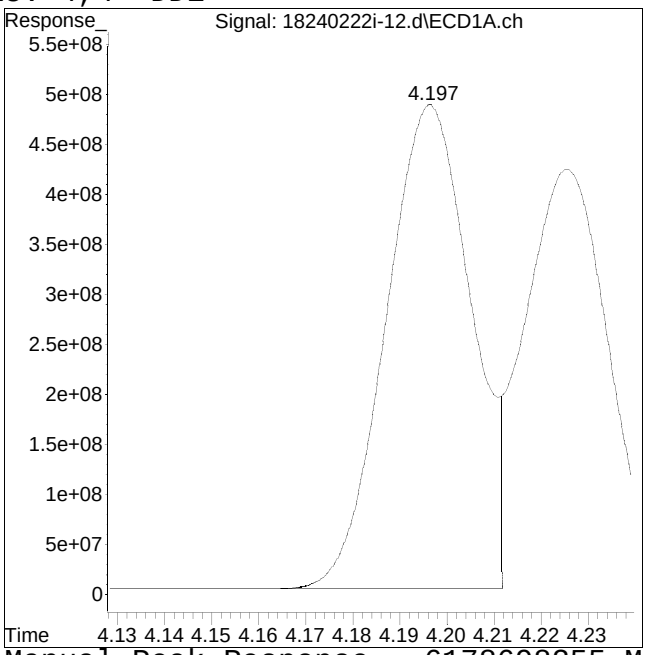
Original Peak Response = 6061506888 Manual Peak Response = 6009216132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #15: 4,4'-DDE



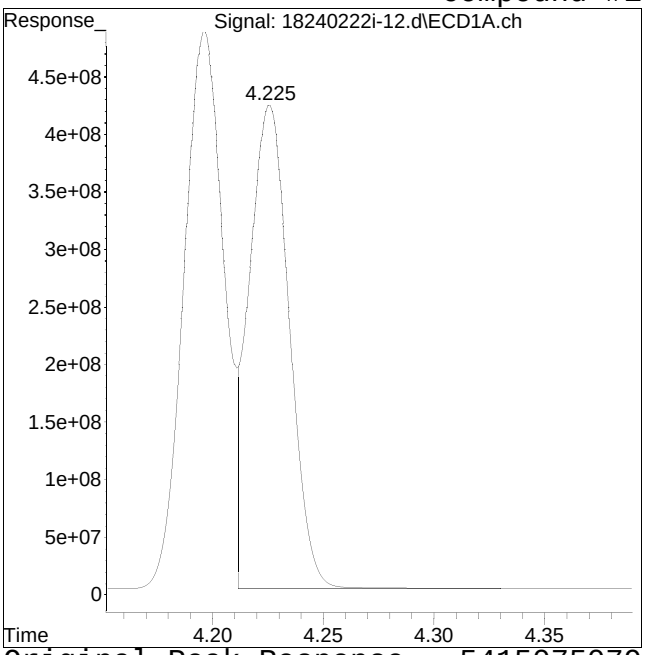


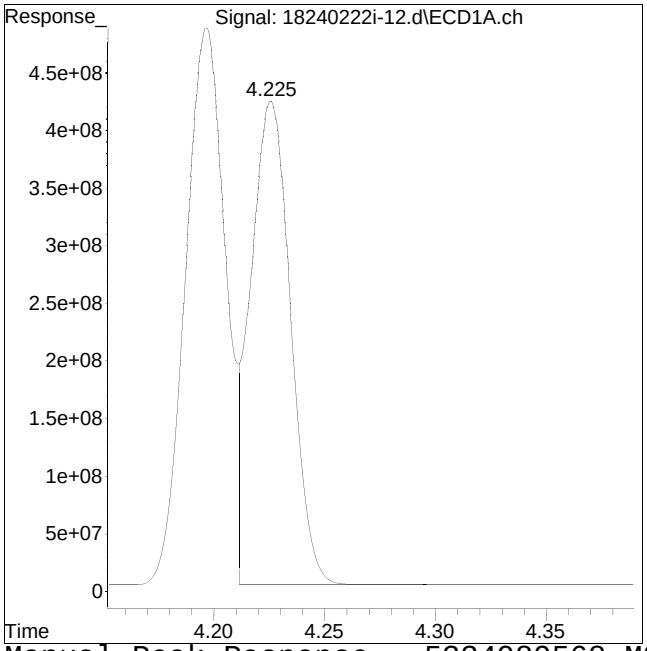
Original Peak Response = 6064280557 Manual Peak Response = 6178698255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #16: Endosulfan I



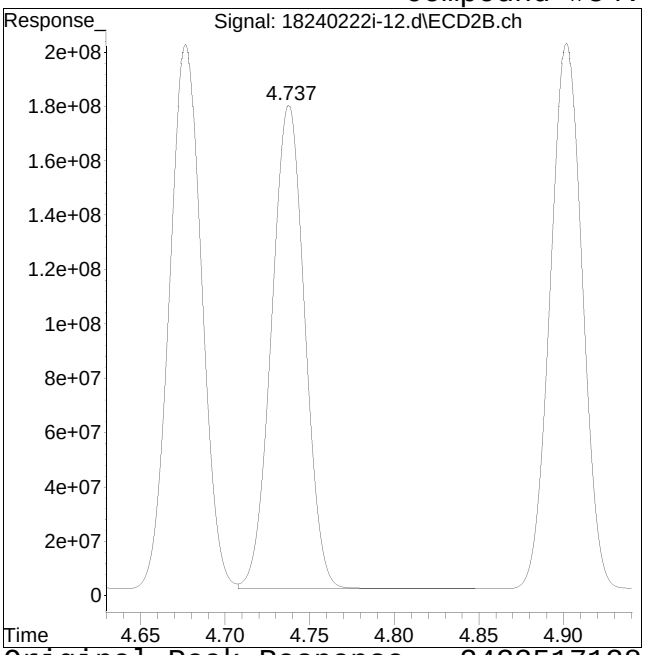


Original Peak Response = 5415075079 Manual Peak Response = 5334989568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

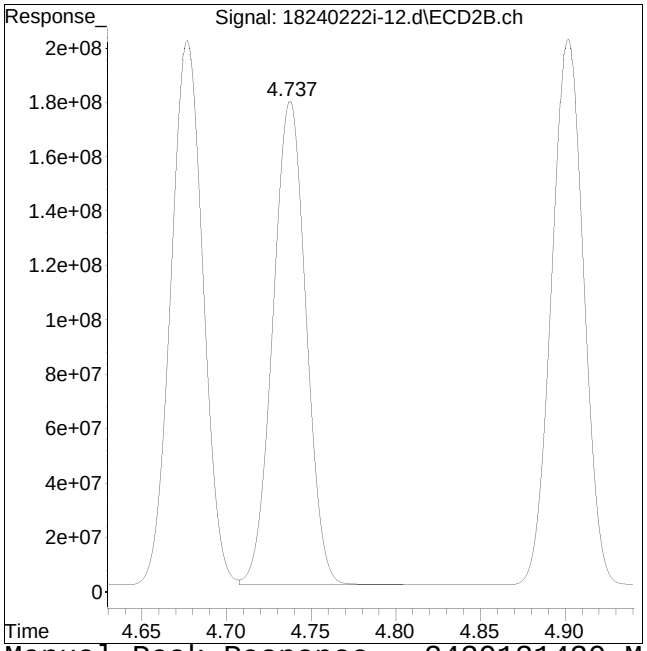
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #54: Endosulfan I #2



Original Peak Response = 2433517128

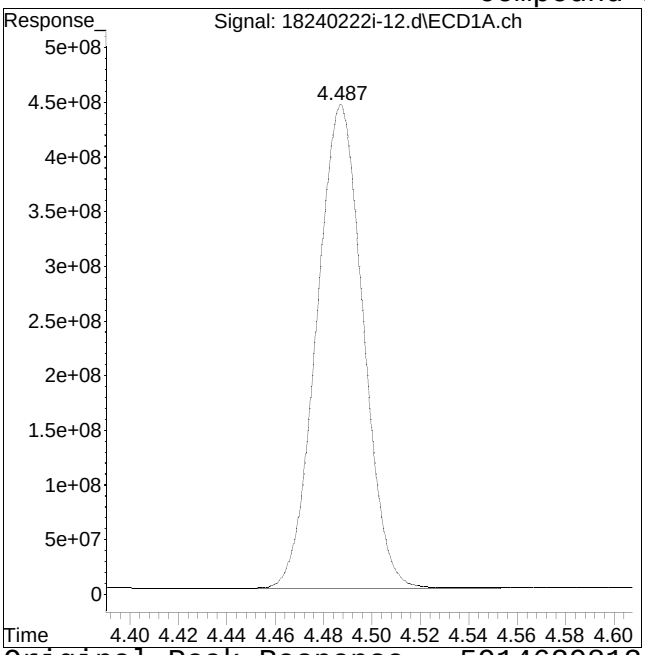


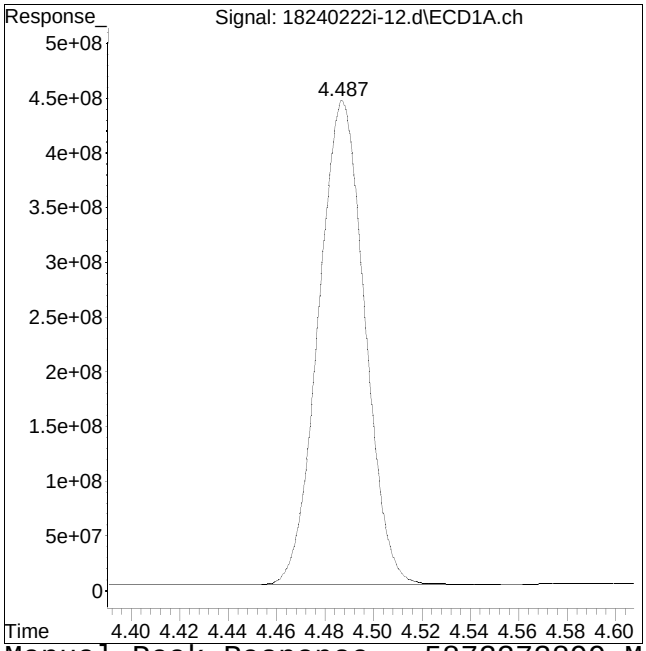
Manual Peak Response = 2429131430 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #17: Dieldrin



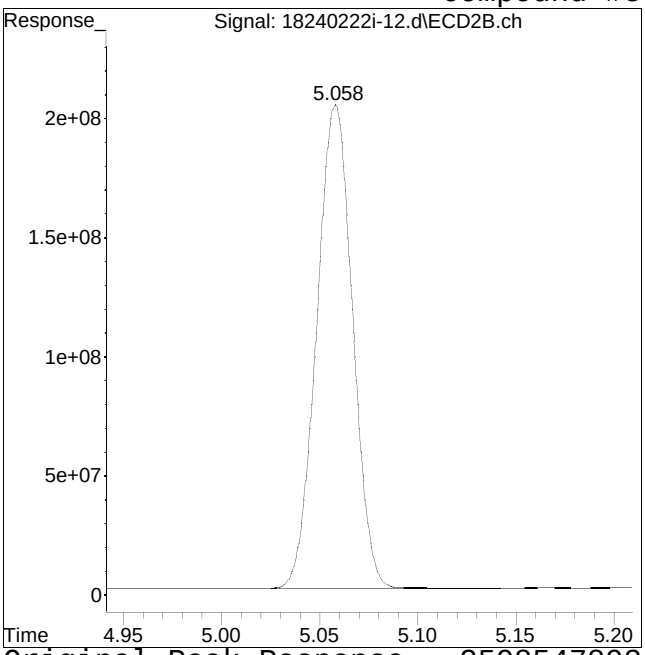


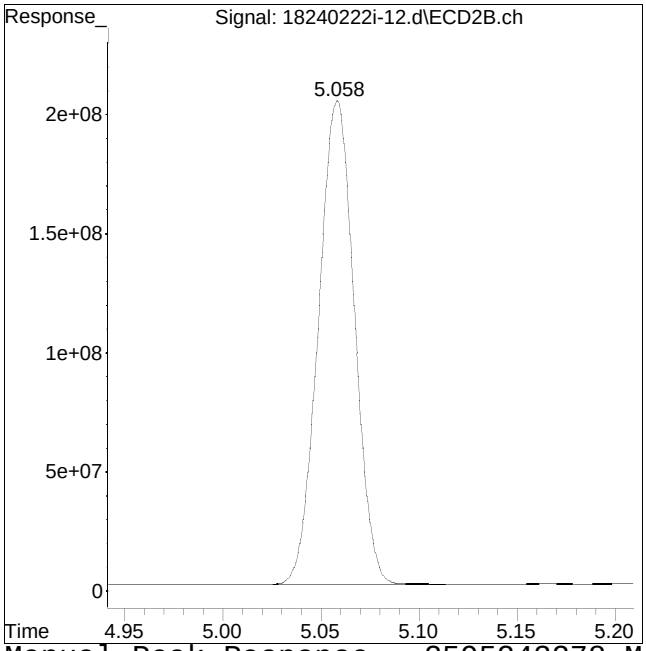
Original Peak Response = 5914629813 Manual Peak Response = 5873373899 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #55: Dieldrin #2



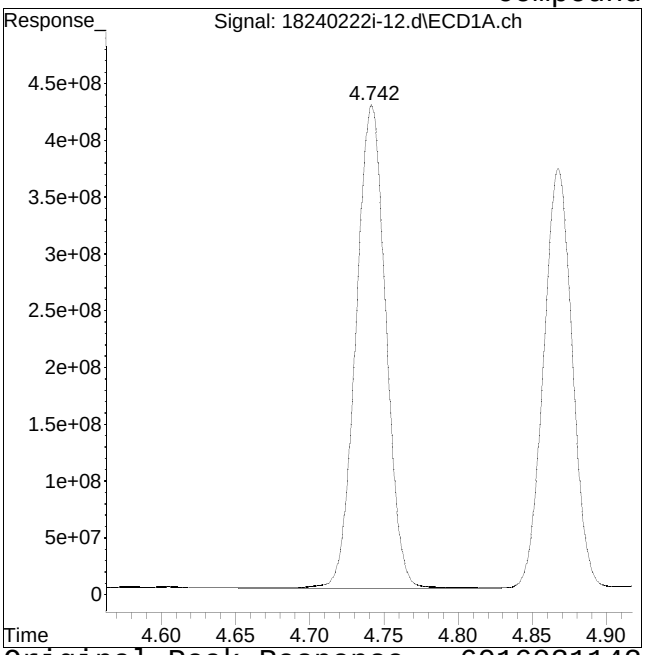


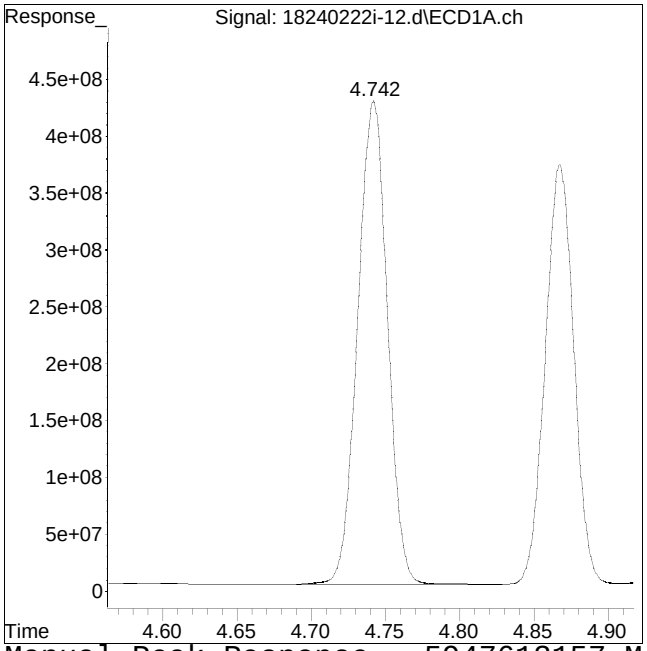
Original Peak Response = 2598547893 Manual Peak Response = 2595243278 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #18: Endrin



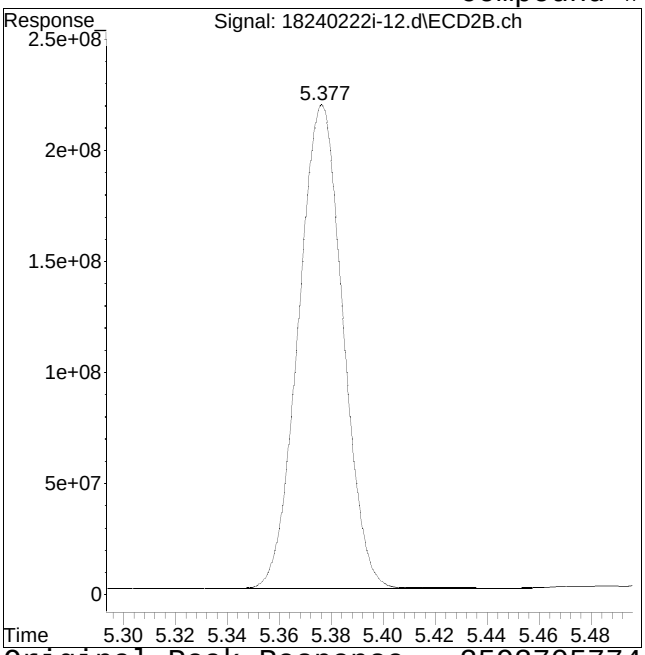


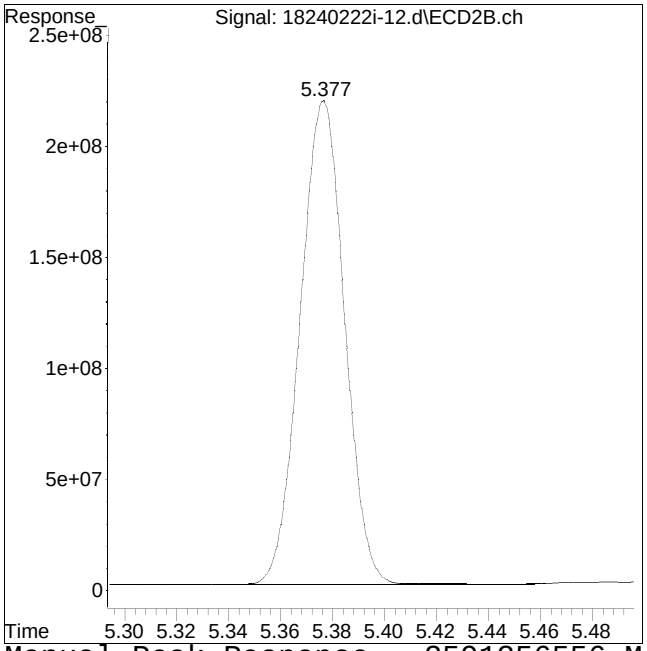
Original Peak Response = 6016031142 Manual Peak Response = 5947613157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #56: Endrin #2



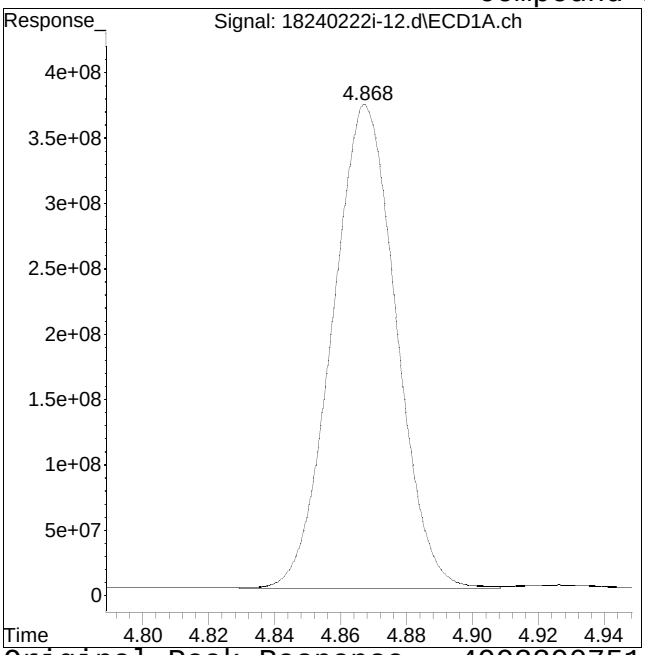


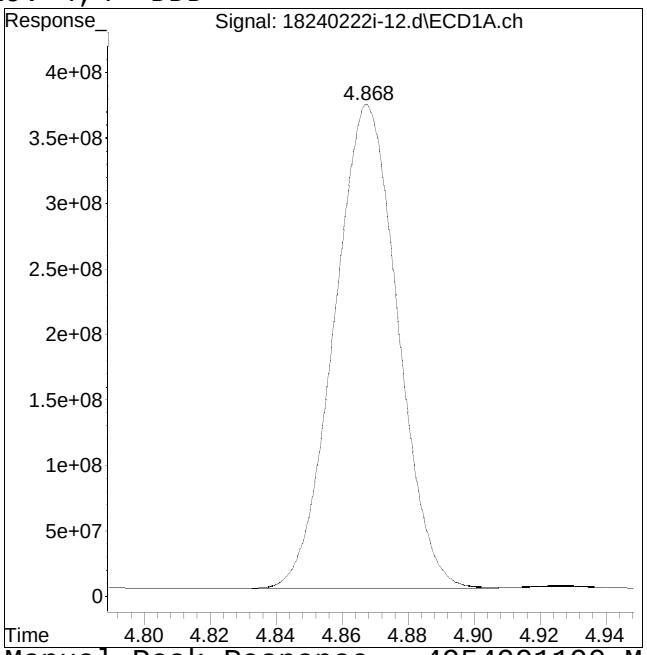
Original Peak Response = 2593705774 Manual Peak Response = 2591356556 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #19: 4,4'-DDD



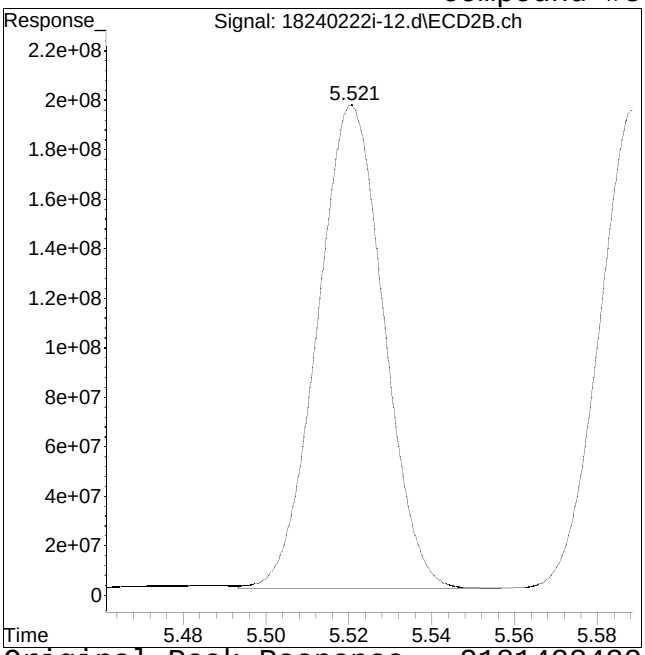


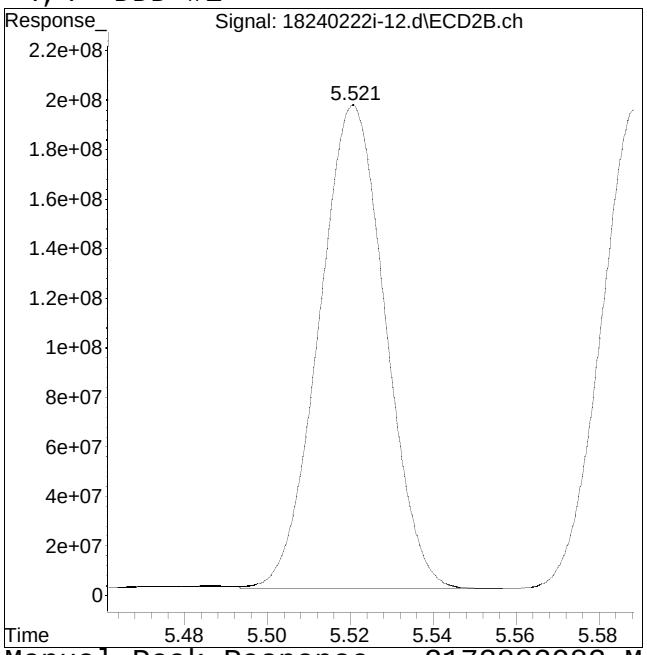
Original Peak Response = 4993390751 Manual Peak Response = 4954991190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #57: 4,4'-DDD #2



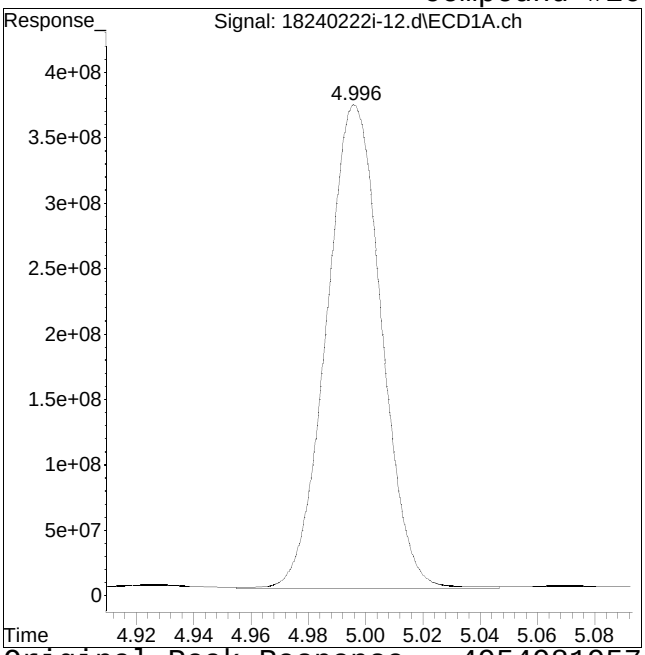


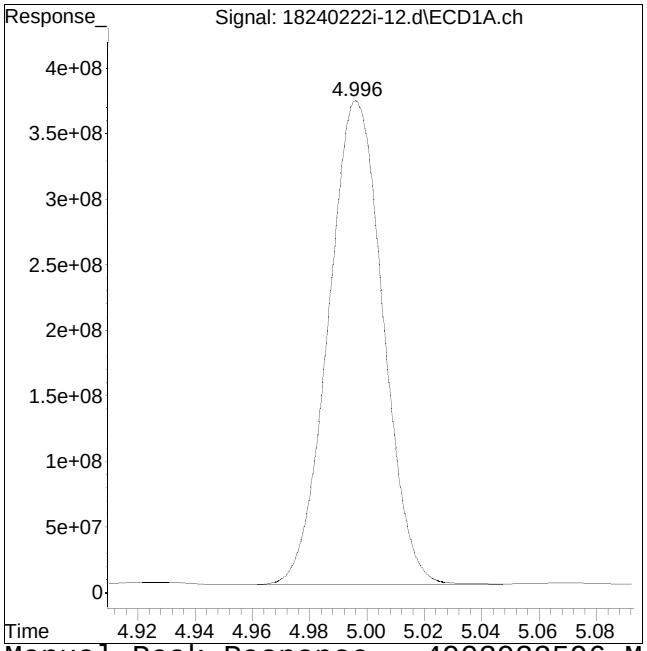
Original Peak Response = 2181423432 Manual Peak Response = 2173892983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #20: Endosulfan II



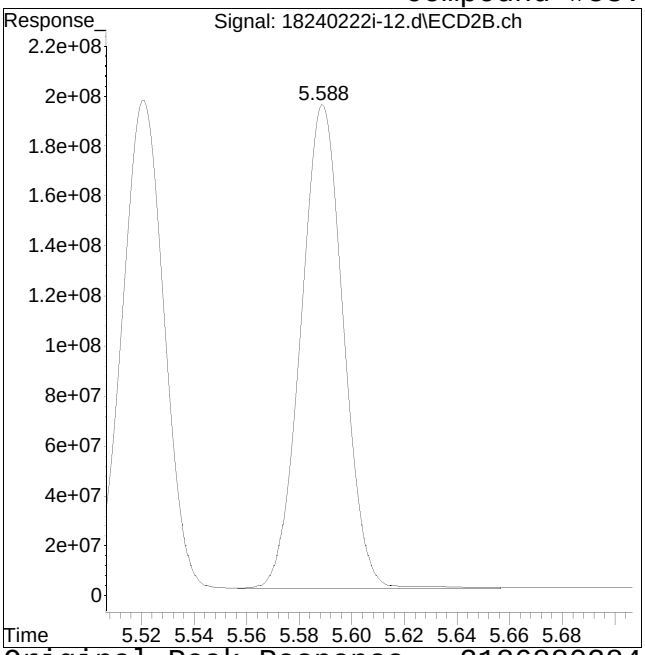


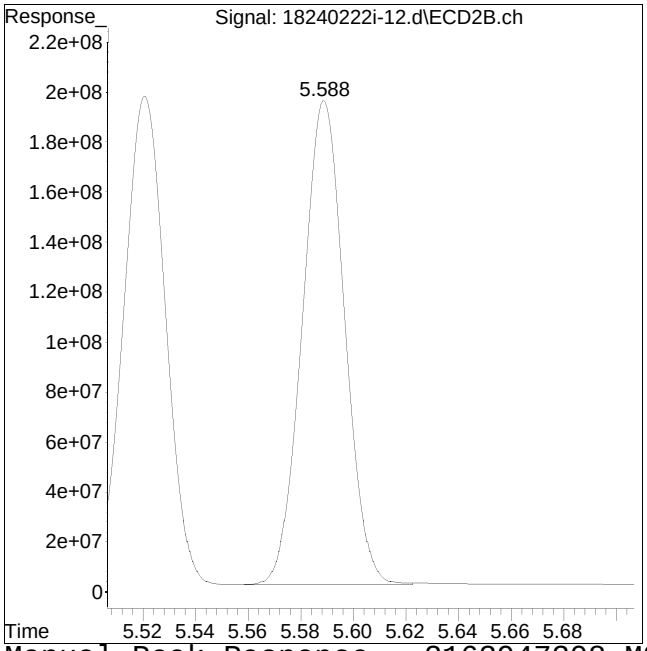
Original Peak Response = 4954981957 Manual Peak Response = 4903932596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #58: Endosulfan II #2



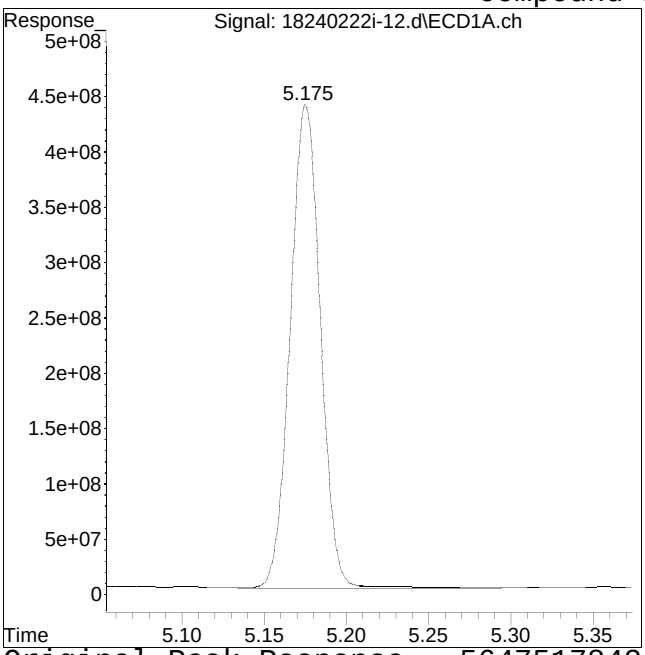


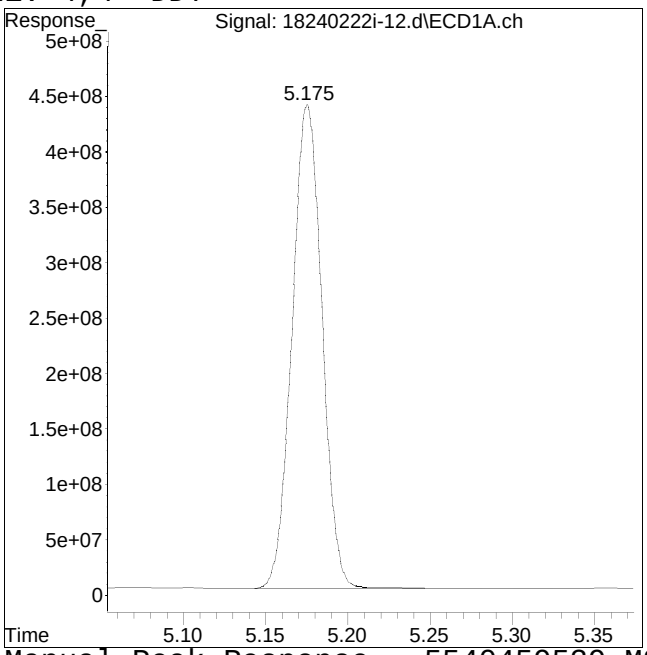
Original Peak Response = 2186880284 Manual Peak Response = 2163947308 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #21: 4,4'-DDT



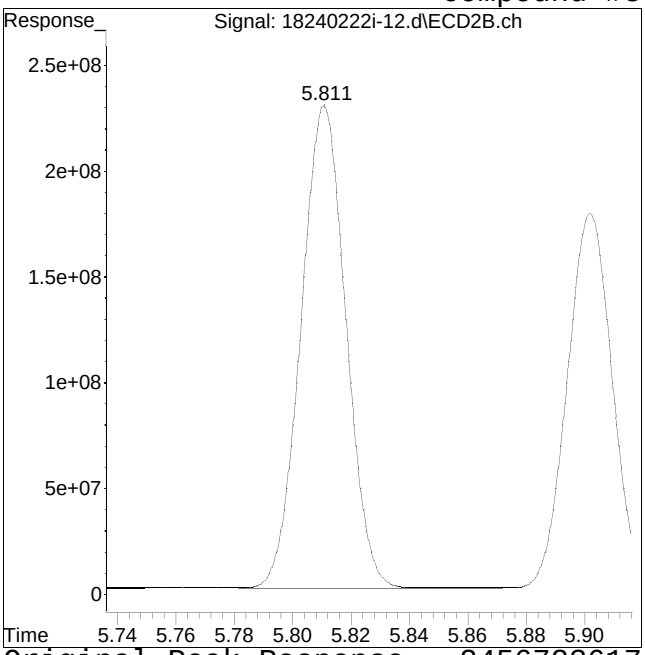


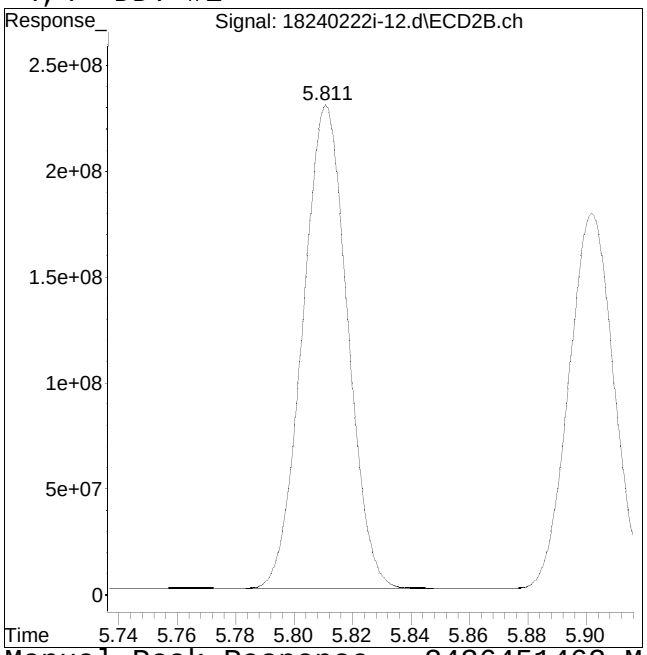
Original Peak Response = 5647517842 Manual Peak Response = 5540459539 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #59: 4,4'-DDT #2



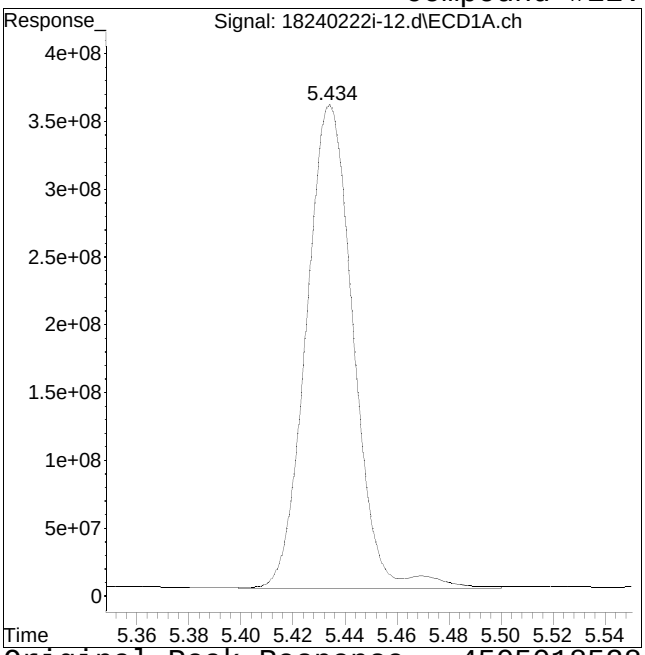


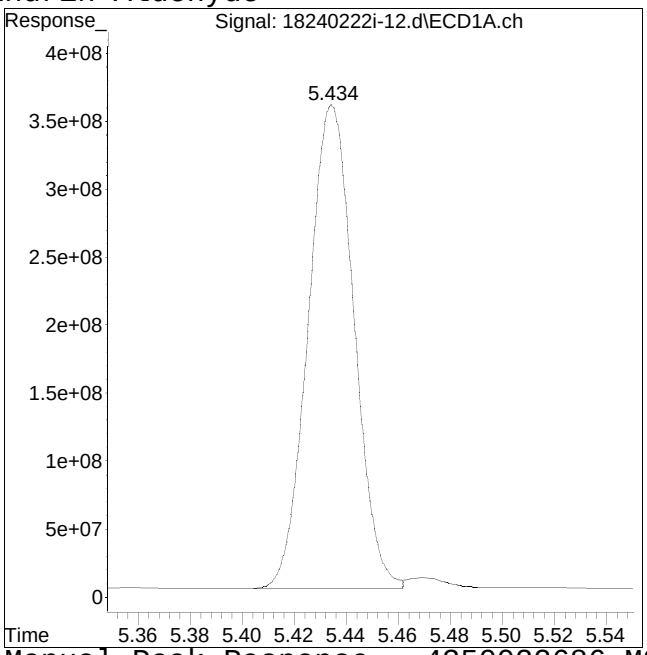
Original Peak Response = 2456723617 Manual Peak Response = 2436451462 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #22: Endrin Aldehyde



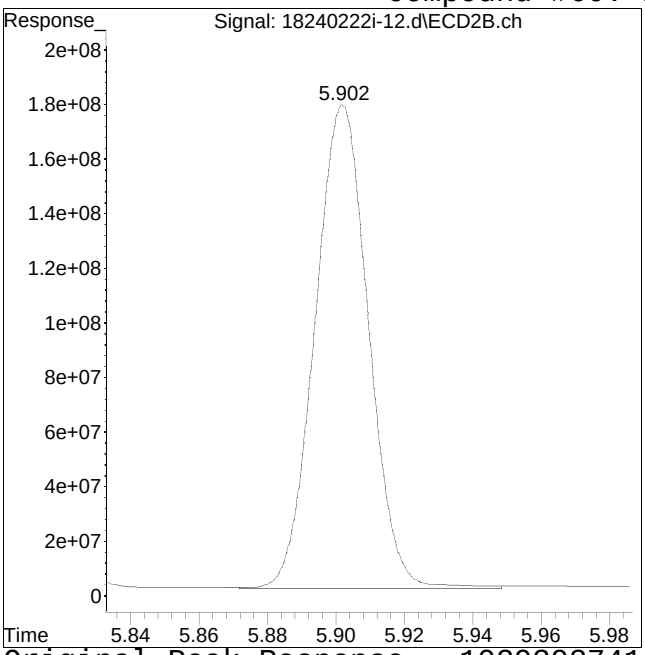


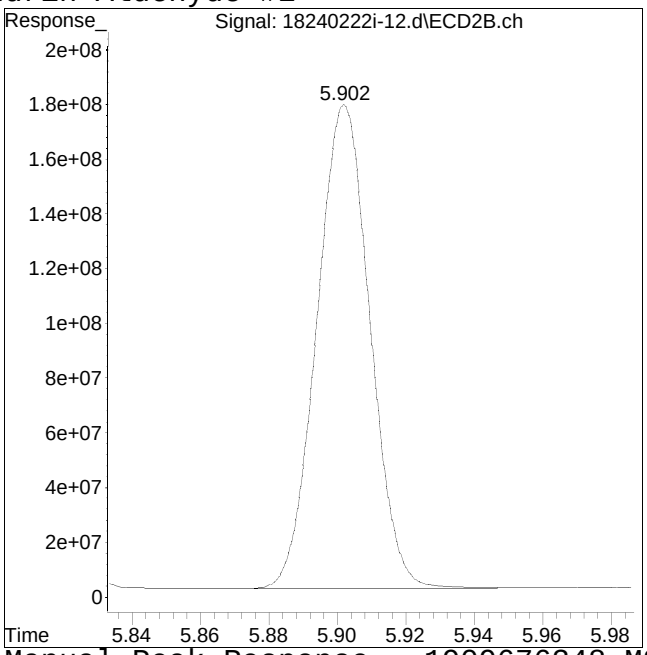
Original Peak Response = 4505018528 Manual Peak Response = 4350022686 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #60: Endrin Aldehyde #2



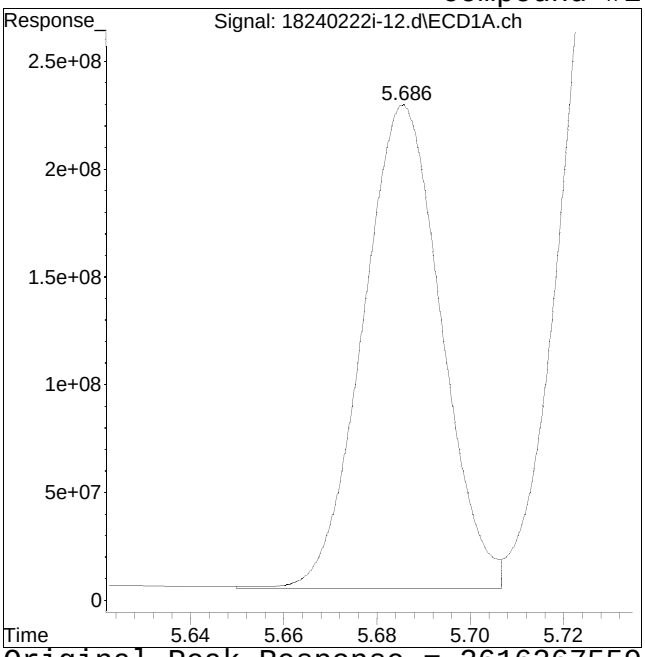


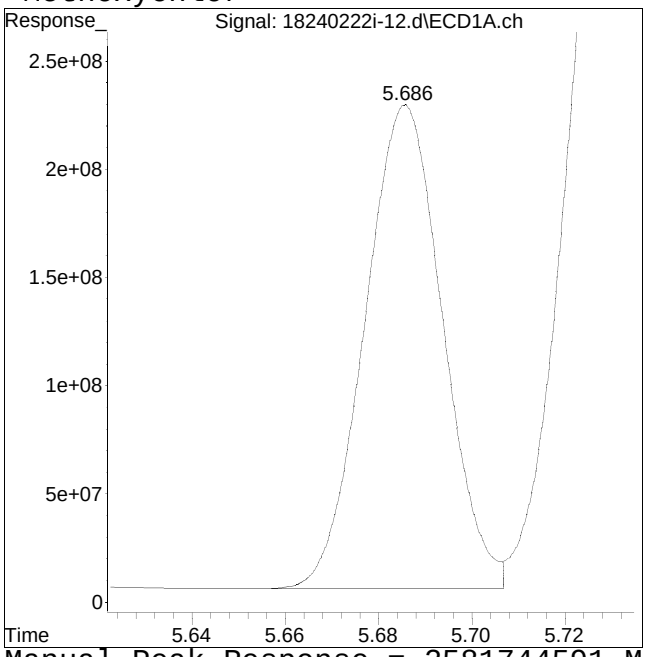
Original Peak Response = 1929393741 Manual Peak Response = 1909676348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #23: Methoxychlor



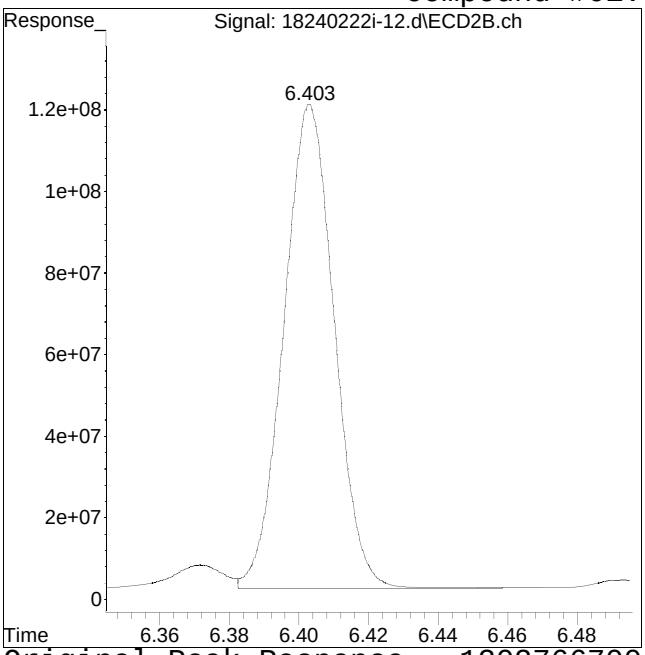


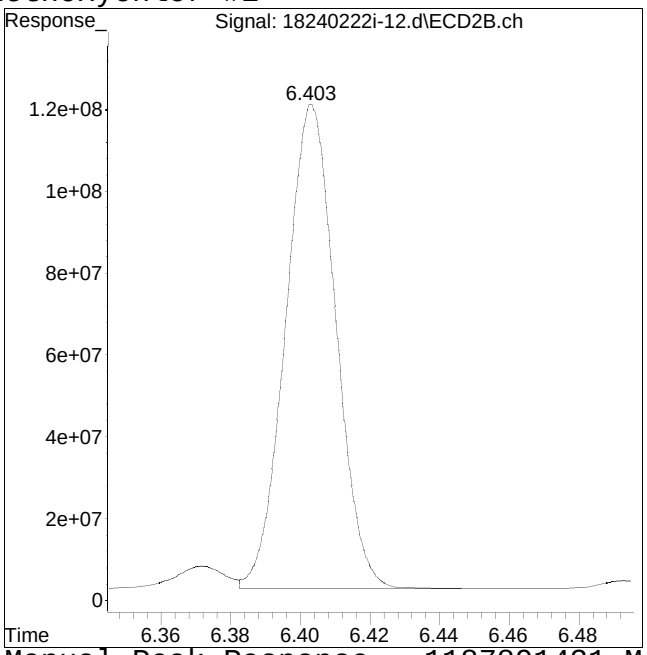
Original Peak Response = 2616267559 Manual Peak Response = 2581744591 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #61: Methoxychlor #2



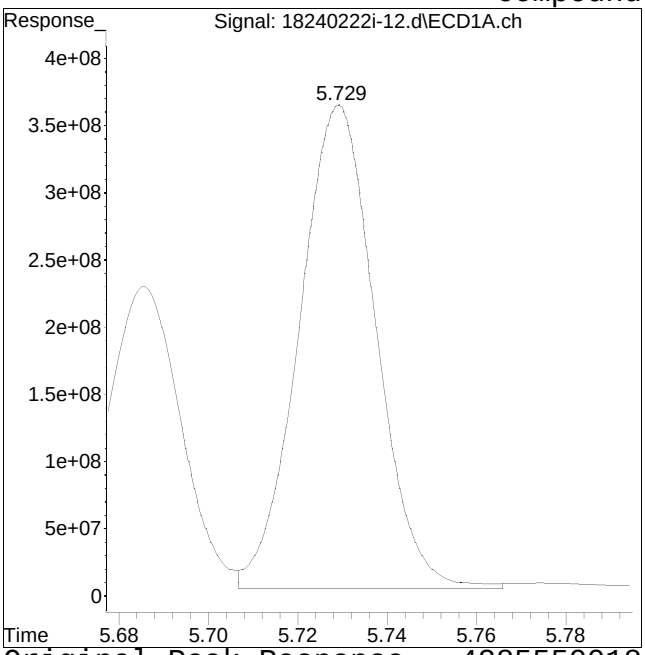


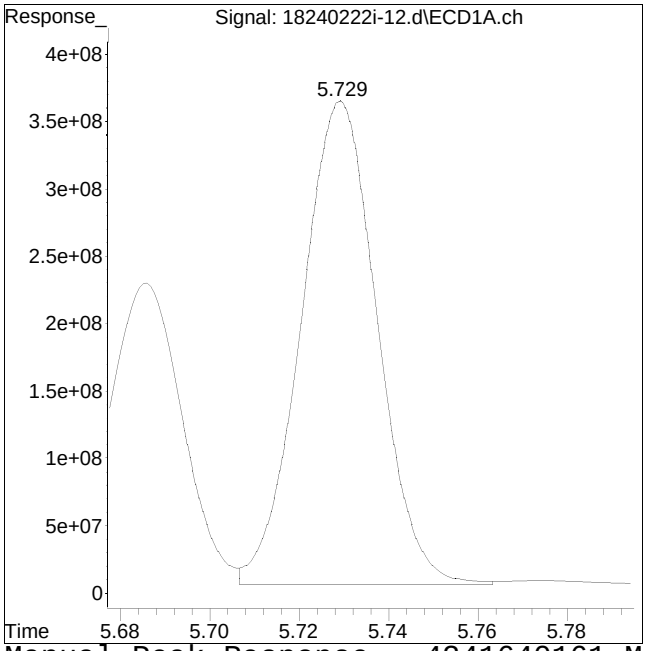
Original Peak Response = 1202766700 Manual Peak Response = 1187891431 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #24: Mirex



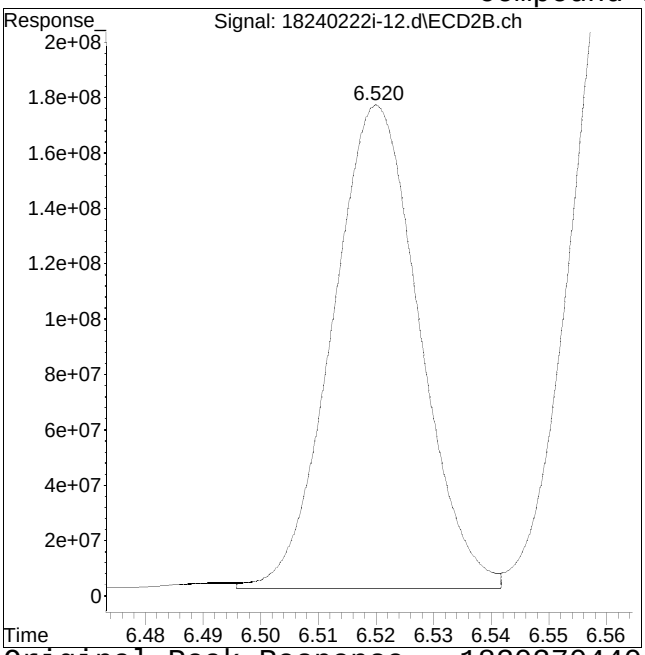


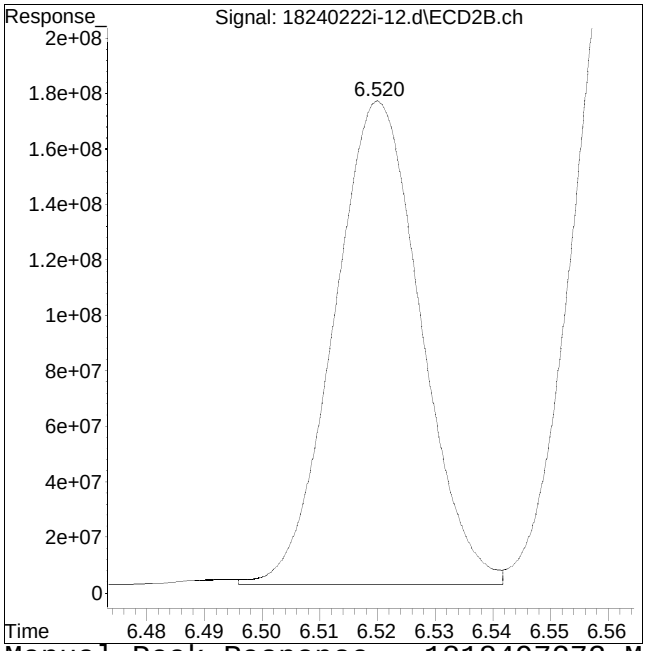
Original Peak Response = 4285559018 Manual Peak Response = 4241640161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #62: Mirex #2



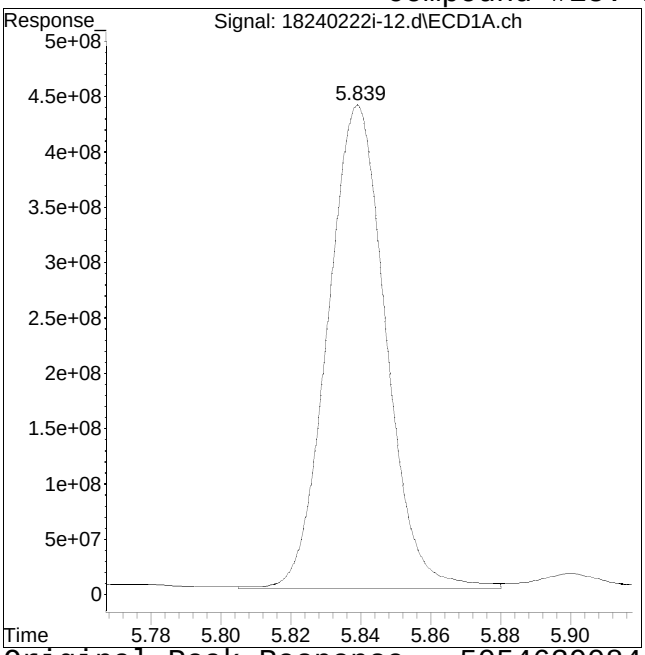


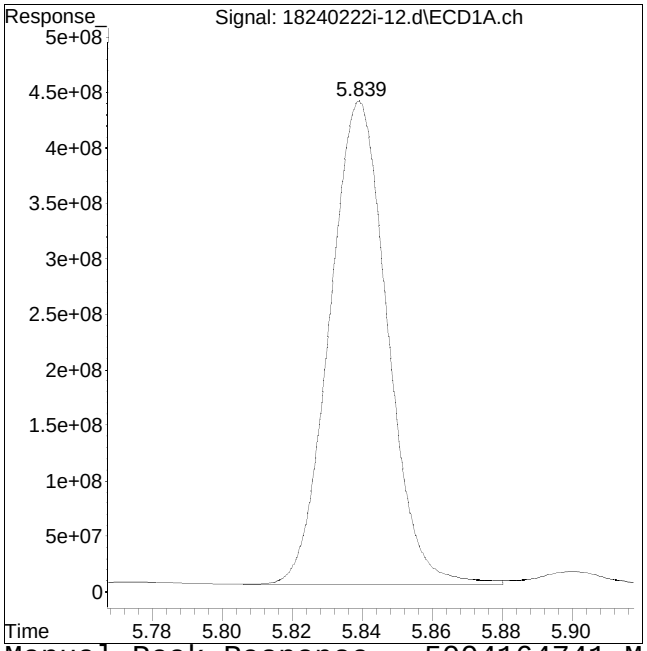
Original Peak Response = 1830370440 Manual Peak Response = 1818497273 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #25: Endosulfan Sulfate



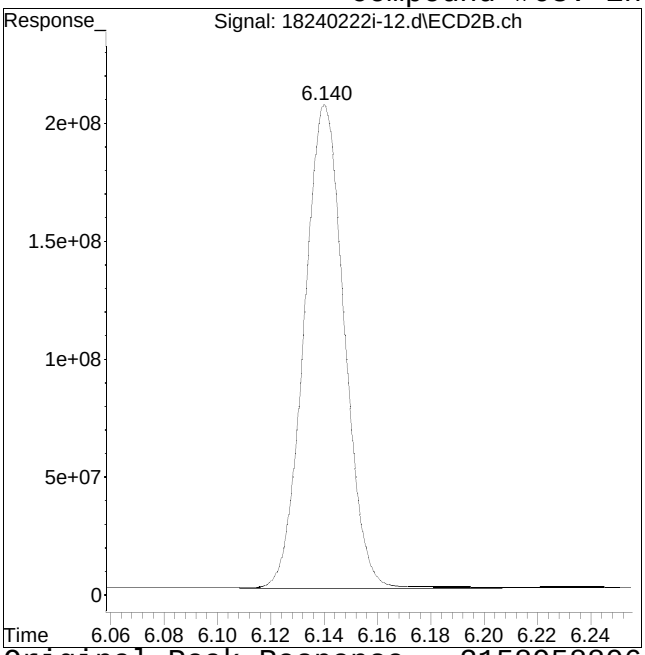


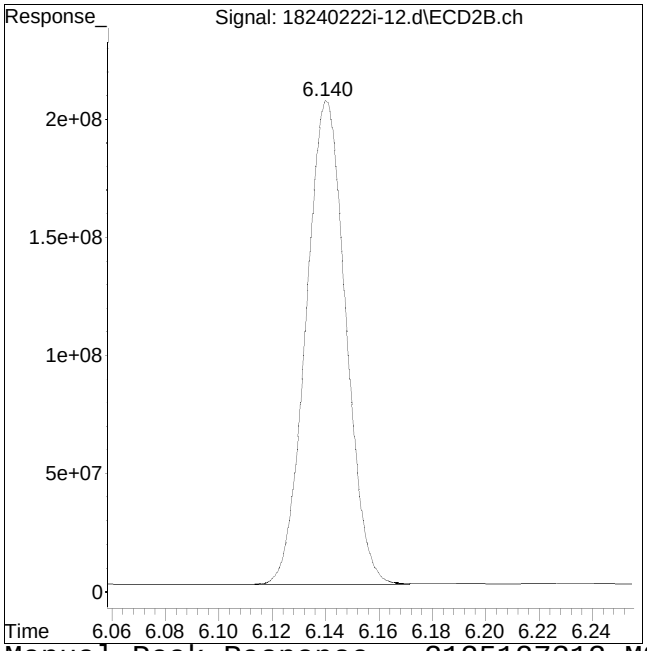
Original Peak Response = 5054639084 Manual Peak Response = 5004164741 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #63: Endosulfan Sulfate #2



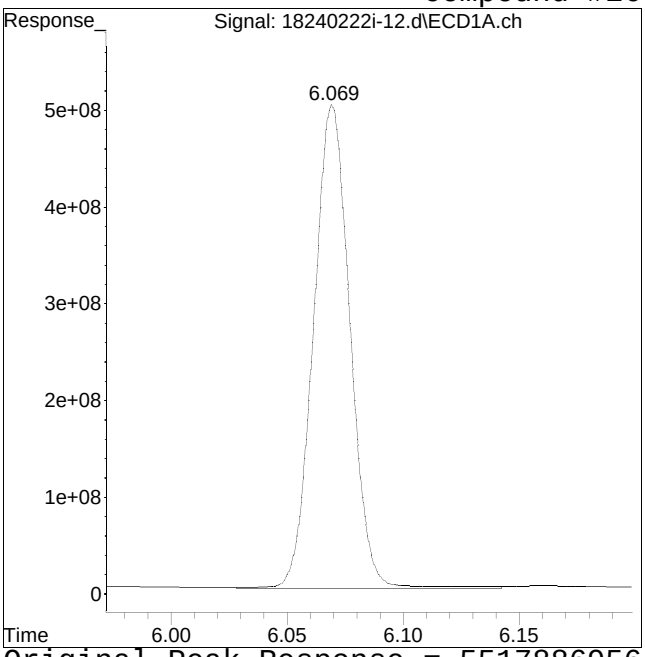


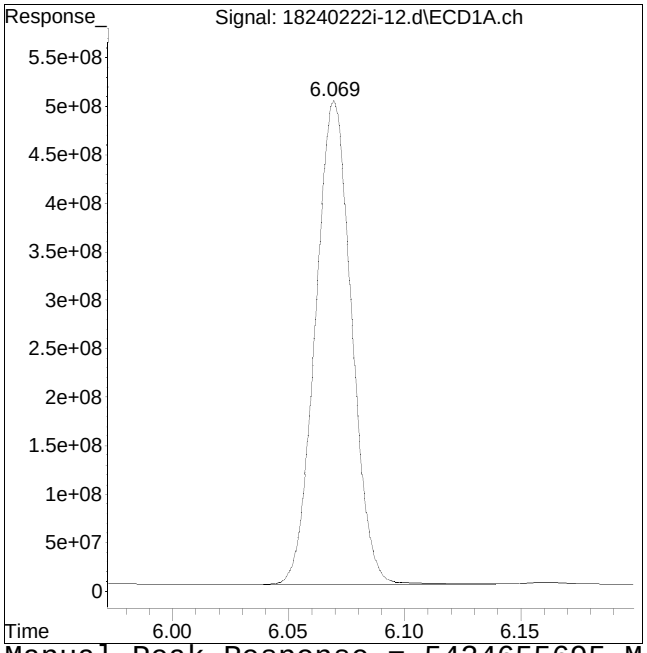
Original Peak Response = 2158958806 Manual Peak Response = 2125127313 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #26: Endrin Ketone



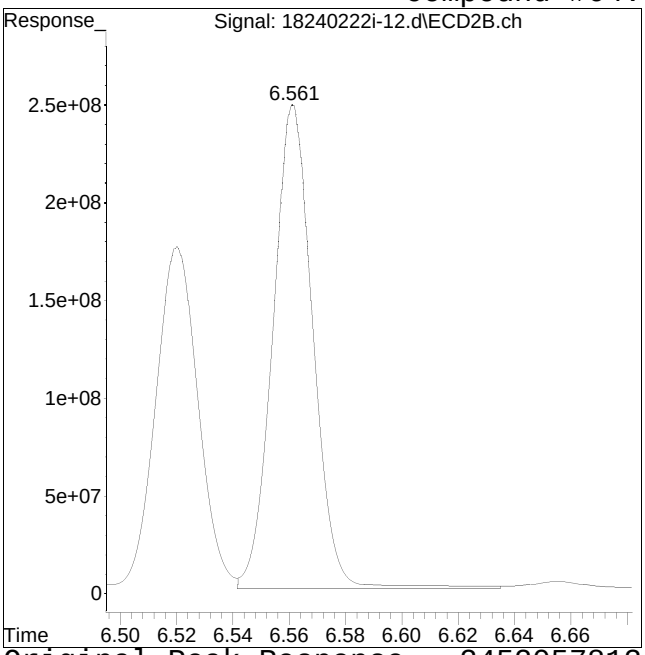


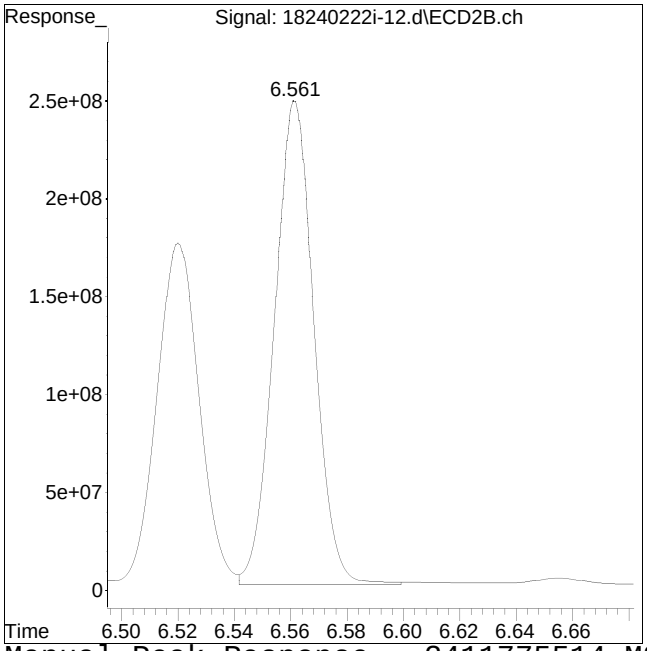
Original Peak Response = 5517886956 Manual Peak Response = 5424655695 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #64: Endrin Ketone #2



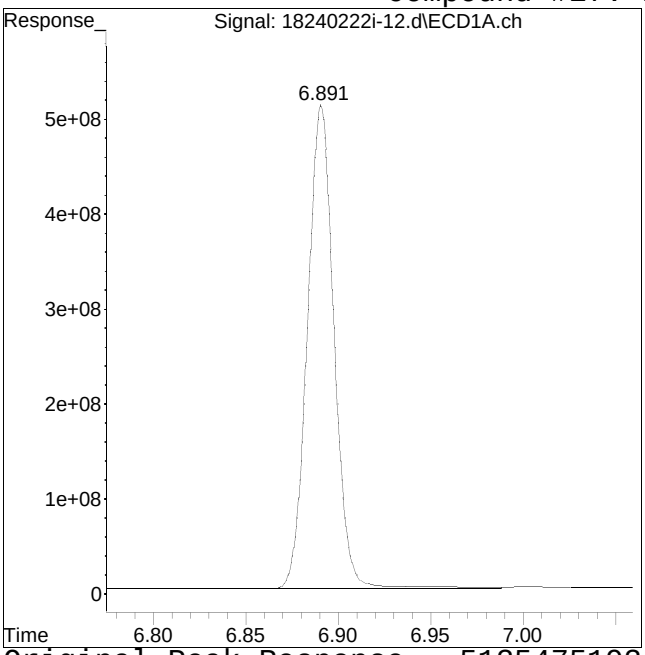


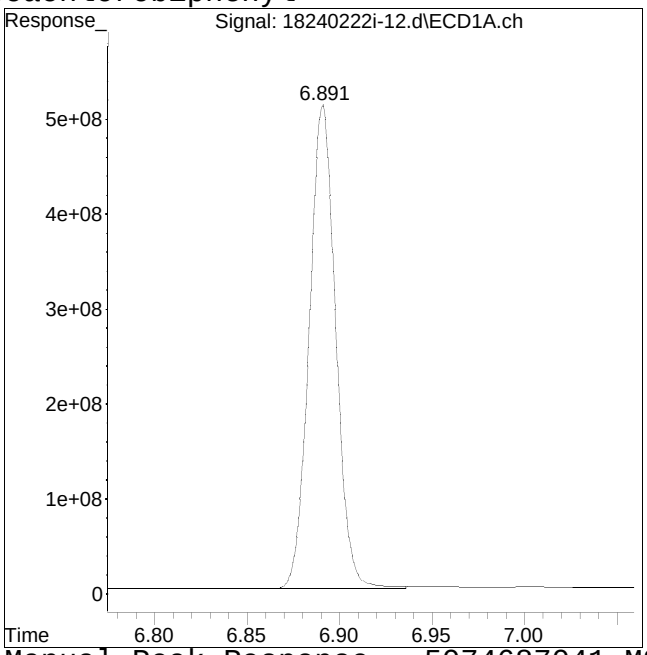
Original Peak Response = 2452057813 Manual Peak Response = 2411775514 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-12.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 2:51 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 2/27/2024 2:24 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 5135475193 Manual Peak Response = 5074687041 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Feb 2024   3:03 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.960	2.7	105	0.00
3		Hexachlorobenzene	*	50.000	51.689	-3.4	100	0.00
4		alpha-BHC		1.295	1.278	1.3	100	0.00
5		gamma-BHC (lindane)		1.214	1.148	5.4	98	0.00
6		beta-BHC	*	50.000	51.702	-3.4	100	0.00
7		delta-BHC		1.217	1.128	7.3	96	0.00
8		Heptachlor		1.207	1.137	5.8	100	0.00
9		Aldrin		1.083	1.061	2.0	101	0.00
10		Alachlor		0.190	0.179	5.8	102	0.00
11		Chlorpyrifos	*	50.000	55.300	-10.6	102	0.00
12		Heptachlor Epoxide		1.041	0.975	6.3	100	0.00
13		gamma-Chlordane (trans)		0.977	1.013	-3.7	113	0.00
14		alpha-Chlordane (cis)		1.075	0.995	7.4	99	0.00
15		4,4'-DDE		1.019	0.972	4.6	99	0.00
16		Endosulfan I		0.985	0.924	6.2	99	0.00
17		Dieldrin		1.023	1.051	-2.7	107	0.00
18		Endrin		1.058	0.998	5.7	98	0.00
19		4,4'-DDD		0.837	0.842	-0.6	106	0.00
20		Endosulfan II		0.925	0.889	3.9	101	0.00
21		4,4'-DDT		0.915	0.907	0.9	101	0.00
22		Endrin Aldehyde	*	50.000	47.990	4.0	95	0.00
23		Methoxychlor	*	50.000	57.100	-14.2	101	0.00
24		Mirex	*	50.000	55.209	-10.4	102	0.00
25		Endosulfan Sulfate		0.912	0.857	6.0	101	0.00
26		Endrin Ketone		1.006	0.993	1.3	104	0.00
27	s	Decachlorobiphenyl	*	50.000	52.428	-4.9	99	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Feb 2024   3:03 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	0.986	0.5	105	0.00
3		Hexachlorobenzene	*	50.000	53.031	-6.1	101	0.00
4		alpha-BHC		1.279	1.310	-2.4	100	0.00
5		gamma-BHC (lindane)		1.209	1.187	1.8	99	0.00
6		beta-BHC	*	50.000	51.840	-3.7	100	0.00
7		delta-BHC		1.217	1.173	3.6	96	0.00
8		Heptachlor		1.197	1.174	1.9	100	0.00
9		Aldrin		1.063	1.086	-2.2	101	0.00
10		Alachlor		0.189	0.177	6.3	101	0.00
11		Chlorpyrifos	*	50.000	54.890	-9.8	101	0.00
12		Heptachlor Epoxide		1.035	1.009	2.5	100	0.00
13		gamma-Chlordane (trans)		0.947	1.040	-9.8	114	0.00
14		alpha-Chlordane (cis)		1.068	1.025	4.0	100	0.00
15		4,4'-DDE		0.999	1.005	-0.6	100	0.00
16		Endosulfan I		0.989	0.955	3.4	99	0.00
17		Dieldrin		1.000	1.074	-7.4	108	0.00
18		Endrin		0.979	1.004	-2.6	100	0.00
19		4,4'-DDD		0.833	0.866	-4.0	106	0.00
20		Endosulfan II		0.916	0.910	0.7	101	0.00
21		4,4'-DDT		0.959	0.946	1.4	100	0.00
22		Endrin Aldehyde	*	50.000	47.903	4.2	96	0.00
23		Methoxychlor	*	50.000	57.116	-14.2	102	0.00
24		Mirex	*	50.000	55.510	-11.0	103	0.00
25		Endosulfan Sulfate		0.881	0.862	2.2	102	0.00
26		Endrin Ketone		1.009	1.027	-1.8	105	0.00
27	s	Decachlorobiphenyl	*	50.000	54.254	-8.5	101	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 22 Feb 2024   3:03 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11430 L0.05ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.67#
29	l1	chlordane-1	*	0.078	0.000	100.0#	0#	-3.03#
30	l1	chlordane-3	*	0.048	0.000	100.0#	0#	-3.40#
31	l1	chlordane-4	*	0.165	0.000	100.0#	0#	-3.96#
32	l1	chlordane-5	*	0.249	0.000	100.0#	0#	-4.09#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.67#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-4.99#
35	l2	toxaphene-2		0.043	0.000	100.0#	0#	-5.12#
36	l2	toxaphene-3		0.042	0.000	100.0#	0#	-5.36#
37	l2	toxaphene-4		0.041	0.000	100.0#	0#	-5.74#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.72#
29	l1	chlordane-1	*	0.037	0.000	100.0#	0#	-3.24#
30	l1	chlordane-3	*	0.043	0.000	100.0#	0#	-3.84#
31	l1	chlordane-4	*	0.145	0.000	100.0#	0#	-4.51#
32	l1	chlordane-5	*	0.116	0.000	100.0#	0#	-4.68#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.72#
34	l2	toxaphene-1		0.020	0.000	100.0#	0#	-5.55#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.58#
36	l2	toxaphene-3		0.036	0.000	100.0#	0#	-5.91#
37	l2	toxaphene-4		0.034	0.000	100.0#	0#	-6.33#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Initial Calibration Verification

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 3:03 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.668	1.722	375.7E6	164.2E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.099	2.262	721.7E6	323.7E6	48.677M3	49.727
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.35%	99.45%
27) s	Decachlorobi	6.890	7.453	645.6E6	253.7E6	52.428M3	54.254
	Spiked Amount 50.000	Range 30 - 150		Recovery =		104.86%	108.51%
	Target Compounds						
3)	Hexachlorobe	2.339	2.593	748.3E6	327.1E6	51.689	53.031
4)	alpha-BHC	2.450	2.696	960.3E6	430.2E6	49.352M3	51.210
5)	gamma-BHC (l	2.667	2.982	862.3E6	389.8E6	47.260M3	49.084
6)	beta-BHC	2.731	3.052	393.1E6	178.9E6	51.702M4	51.840M3
7)	delta-BHC	2.863	3.313	847.3E6	385.3E6	46.332M4	48.195
8)	Heptachlor	3.028	3.370	854.0E6	385.4E6	47.073M4	49.039
9)	Aldrin	3.275	3.681	797.1E6	356.7E6	48.989M4	51.074
10)	Alachlor	3.414	3.586	134.6E6	58046570	47.122M4	46.747
11)	Chlorpyrifos	3.508	3.933	379.3E6	176.3E6	55.300M4	54.890
12)	Heptachlor E	3.831	4.288	732.4E6	331.4E6	46.820M4	48.774
13)	gamma-Chlord	3.956	4.504	761.5E6	341.5E6	51.868M4	54.931
14)	alpha-Chlord	4.091	4.676	748.0E6	336.5E6	46.307M3	47.972
15)	4,4'-DDE	4.197	4.902	730.3E6	330.2E6	47.677	50.334
16)	Endosulfan I	4.225	4.737	694.1E6	313.6E6	46.874M4	48.283
17)	Dieldrin	4.487	5.058	789.6E6	352.6E6	51.370M4	53.699
18)	Endrin	4.741	5.376	749.8E6	329.9E6	47.155M4	51.301
19)	4,4'-DDD	4.867	5.520	632.3E6	284.4E6	50.251M4	51.967
20)	Endosulfan I	4.996	5.588	667.9E6	298.8E6	48.038M4	49.658M4

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 3:03 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	5.175	5.811	681.7E6	310.7E6	49.600M4	49.324
22)	Endrin Aldeh	5.434	5.902	499.8E6	221.4E6	47.990M3	47.903
23)	Methoxychlor	5.685	6.403	370.2E6	172.8E6	57.100M4	57.116
24)	Mirex	5.729	6.520	572.4E6	251.2E6	55.209M4	55.510M3
25)	Endosulfan S	5.838	6.140	644.1E6	283.0E6	47.011M3	48.891
26)	Endrin Keton	6.069	6.561	746.0E6	337.3E6	49.353M4	50.887M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

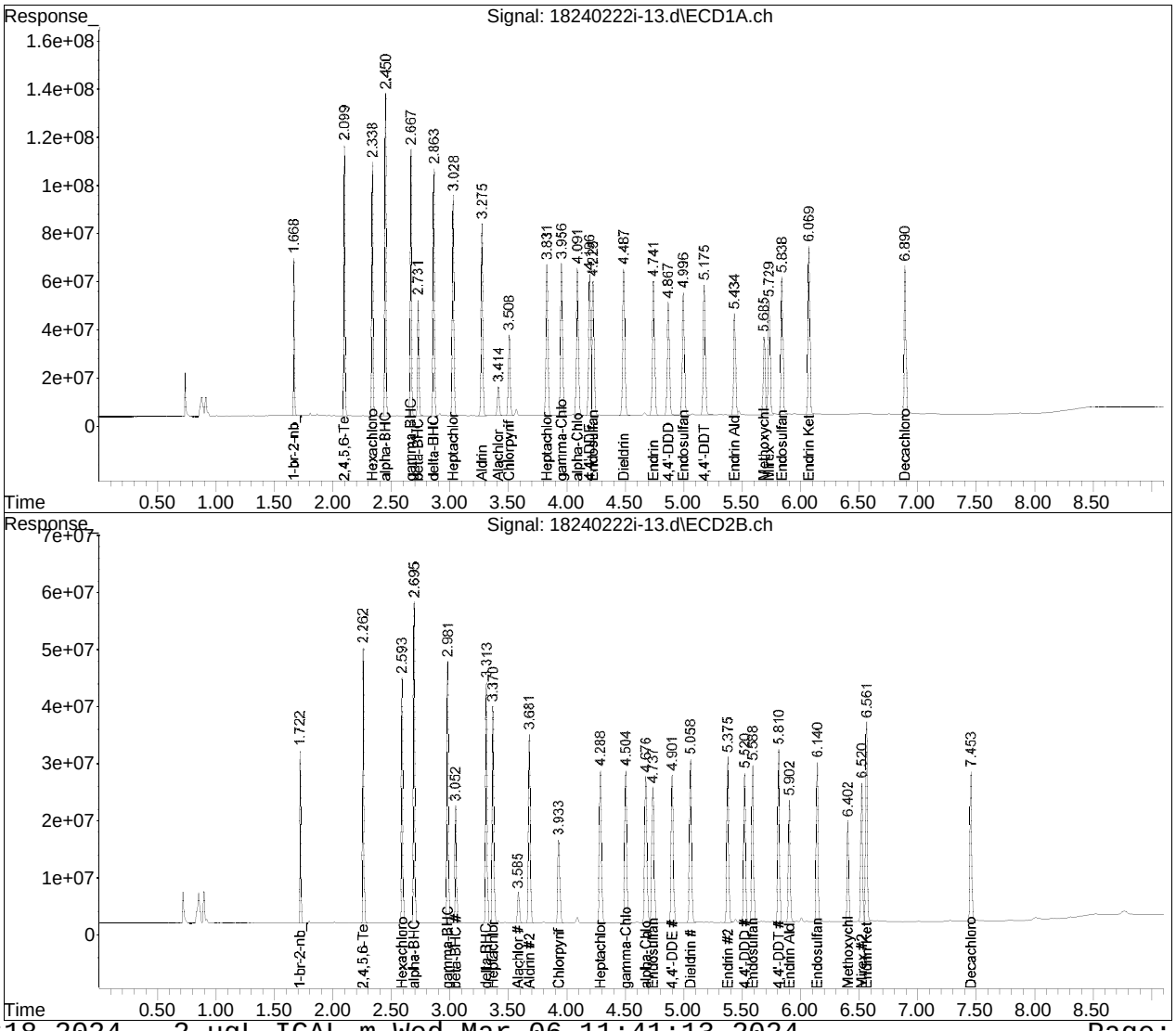
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Feb 2024 3:03 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11430 L0.05ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 15:44:24 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:16:04 2024
Response via : Initial Calibration
Integrator: ChemStation

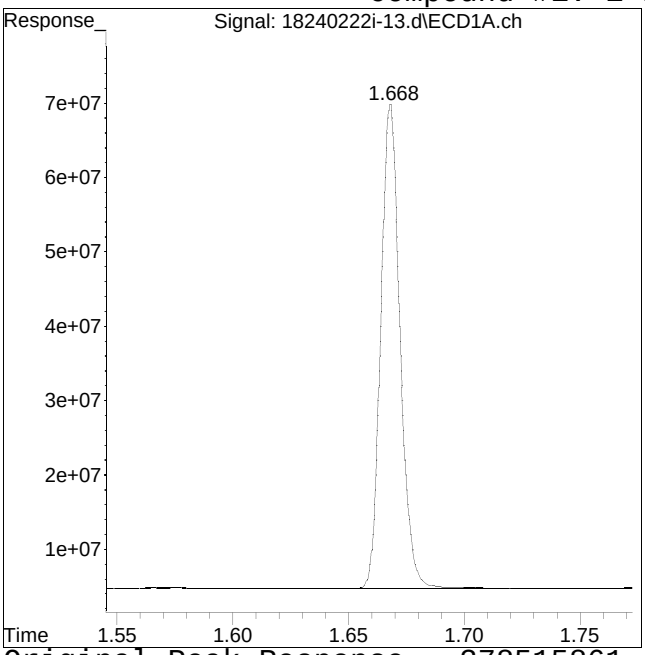
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

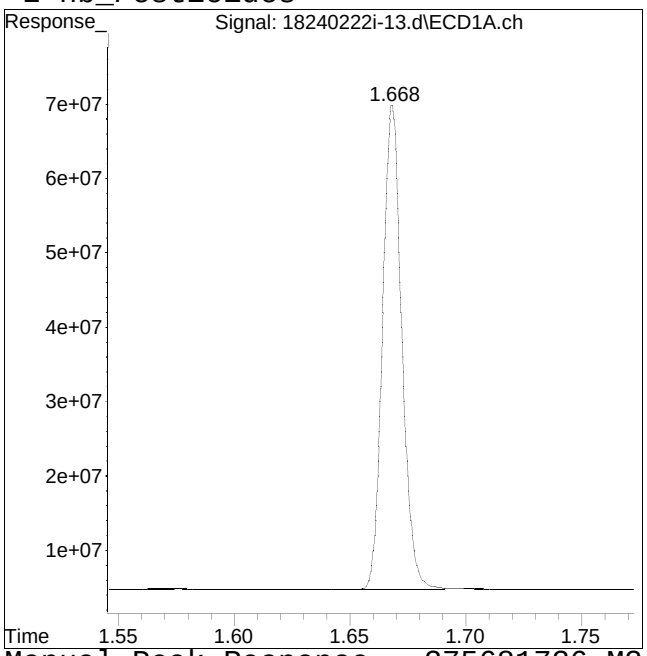


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #1: 1-br-2-nb_Pesticides



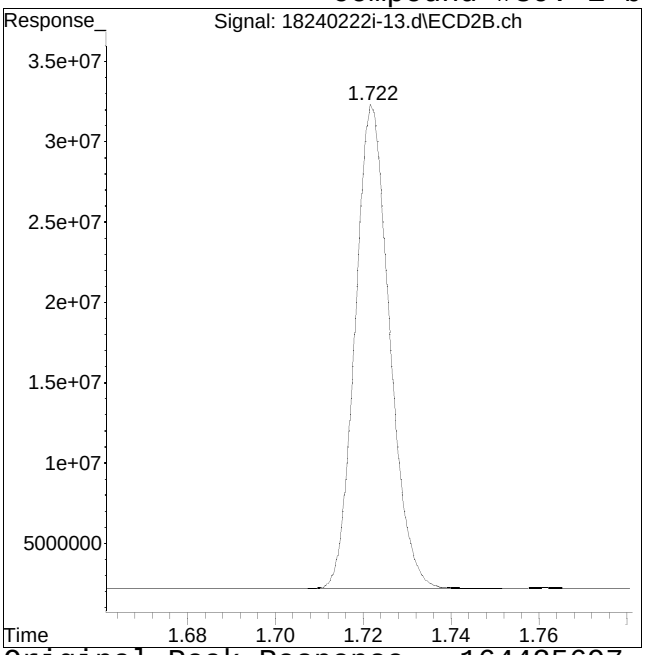


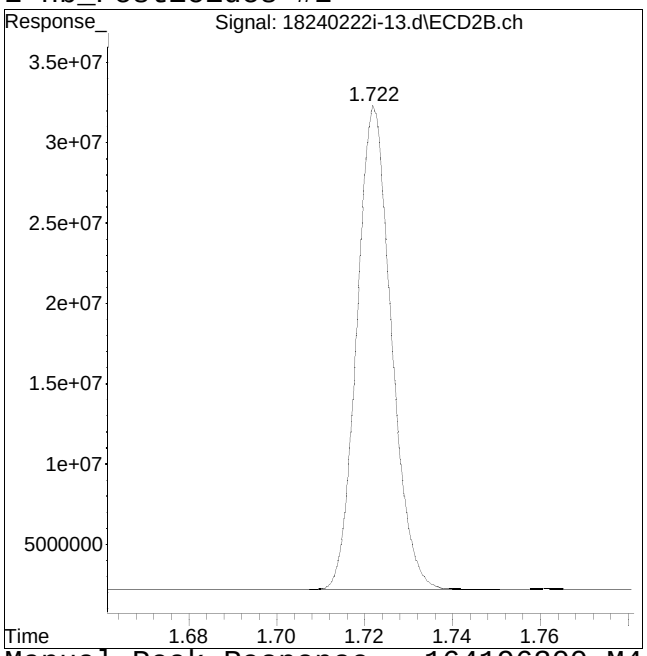
Original Peak Response = 378515861 Manual Peak Response = 375681736 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



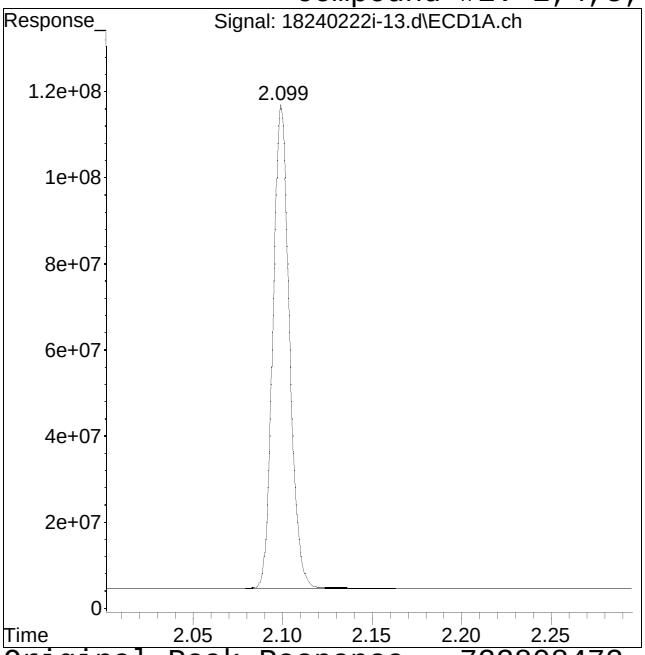


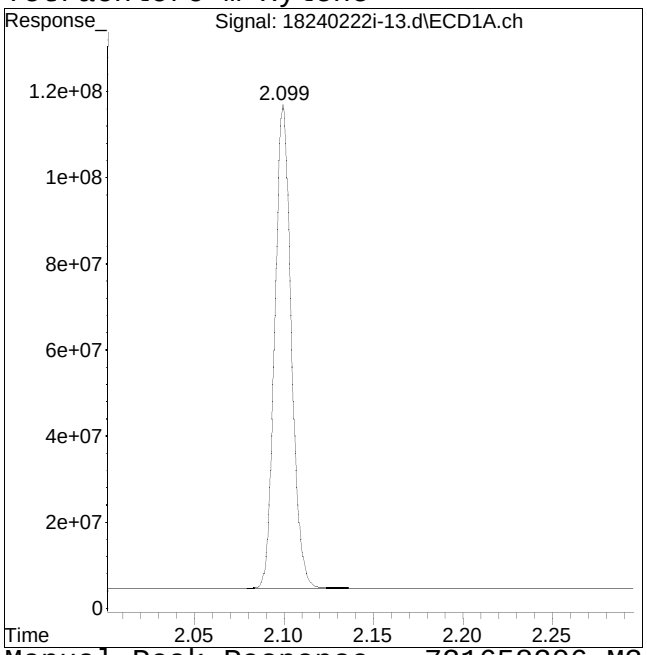
Original Peak Response = 164425697 Manual Peak Response = 164196300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



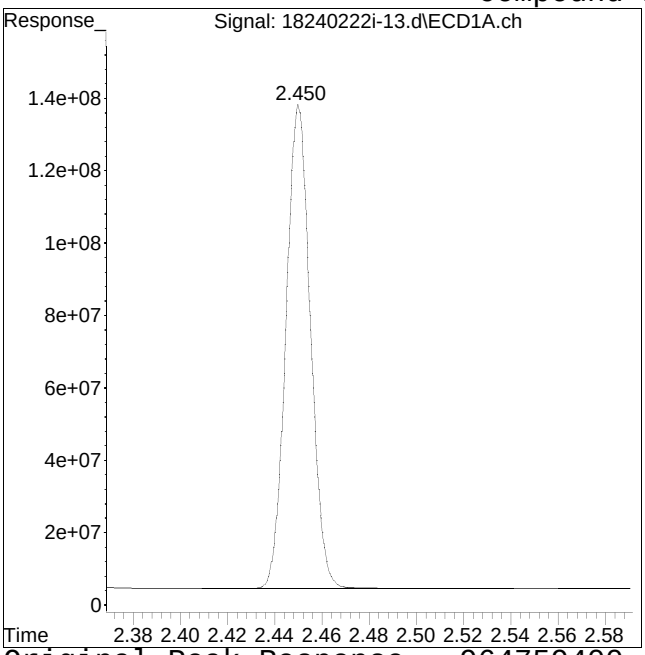


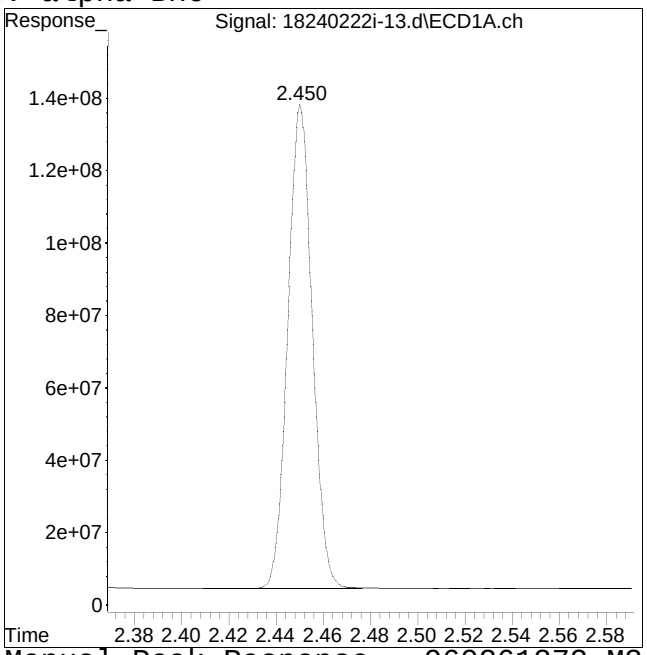
Original Peak Response = 723808473 Manual Peak Response = 721658306 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #4: alpha-BHC



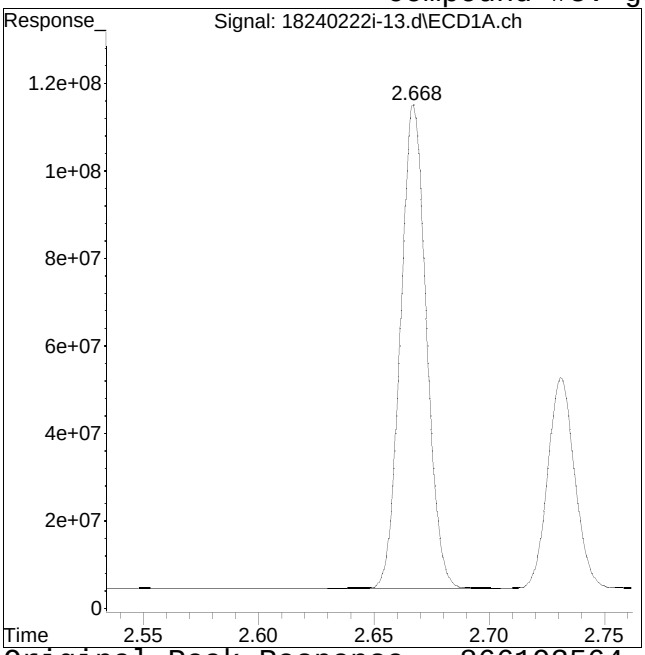


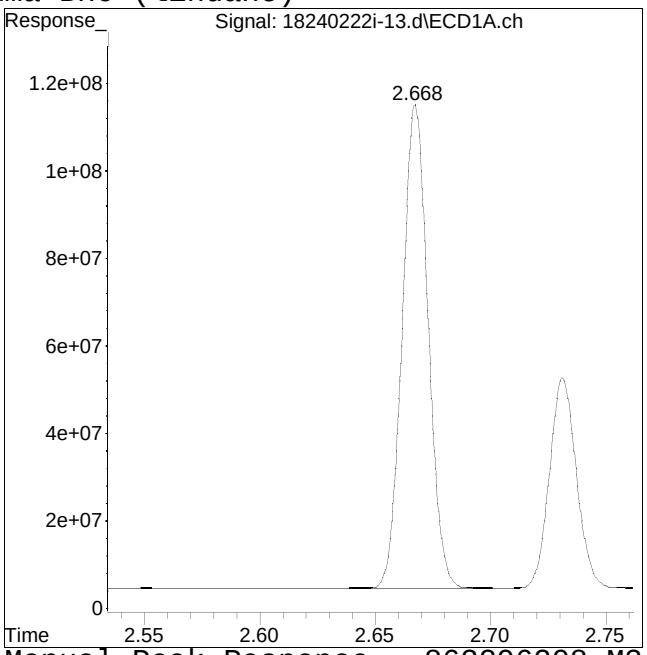
Original Peak Response = 964759400 Manual Peak Response = 960261272 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #5: gamma-BHC (lindane)



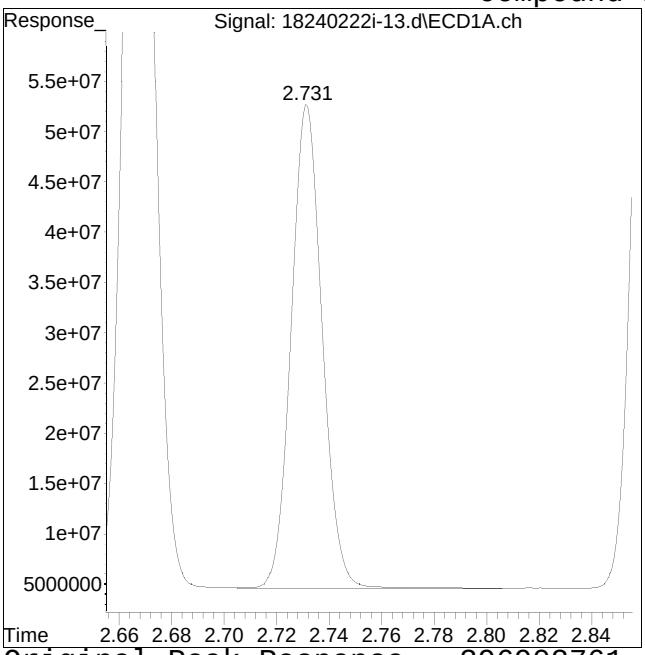


Original Peak Response = 866193564 Manual Peak Response = 862296208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

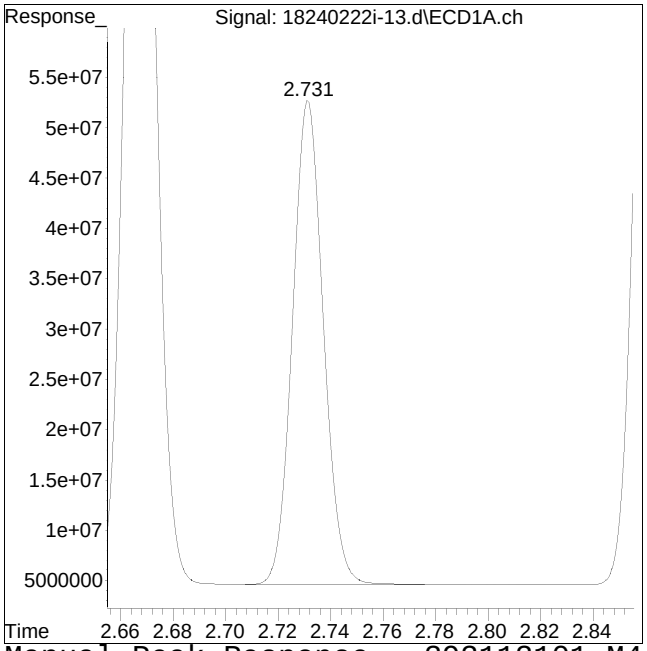
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #6: beta-BHC



Original Peak Response = 396902761



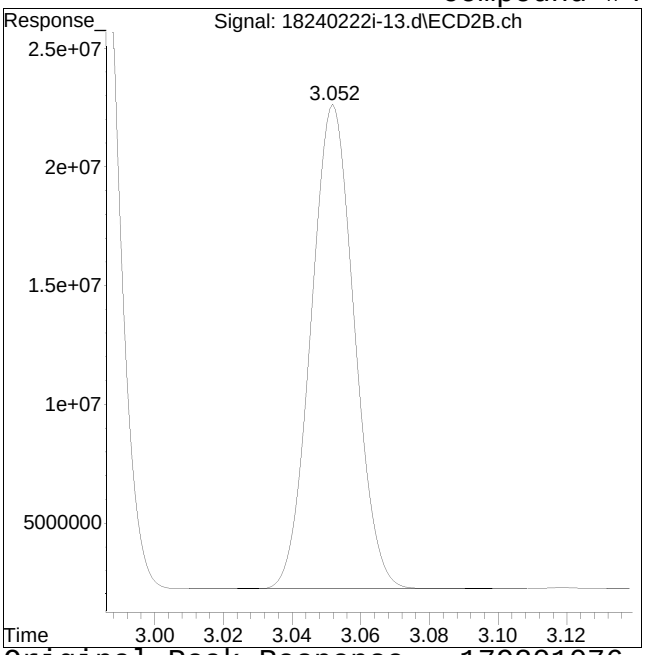
Manual Peak Response = 393113101 M4

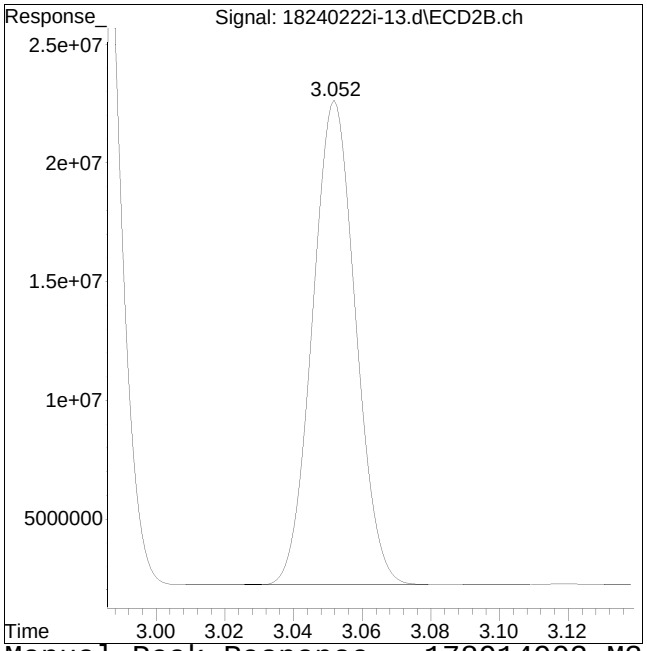
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #44: beta-BHC #2



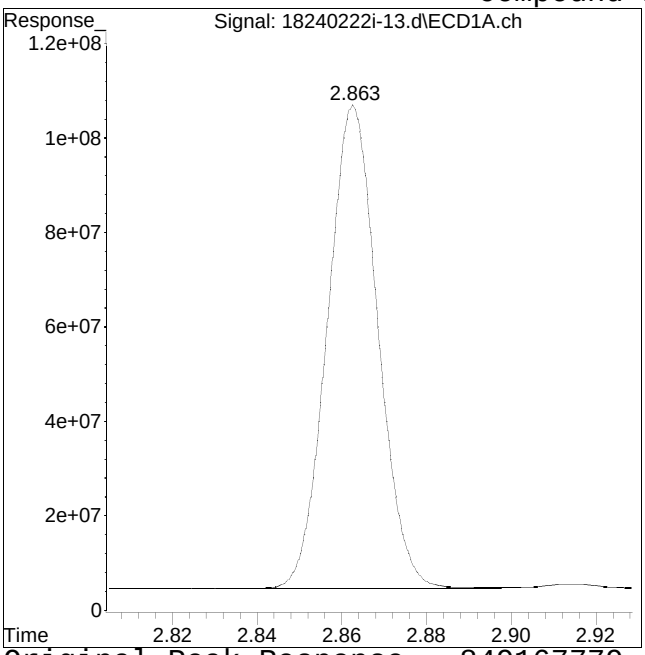


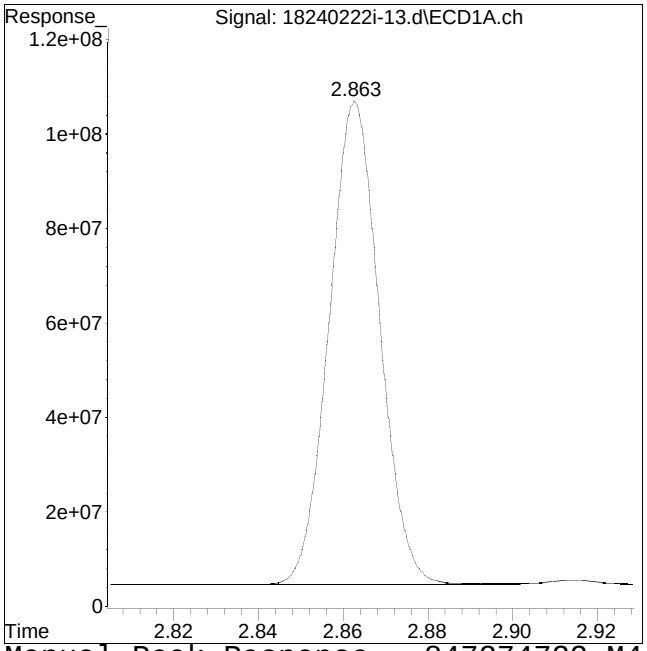
Original Peak Response = 179201076 Manual Peak Response = 178914903 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #7: delta-BHC



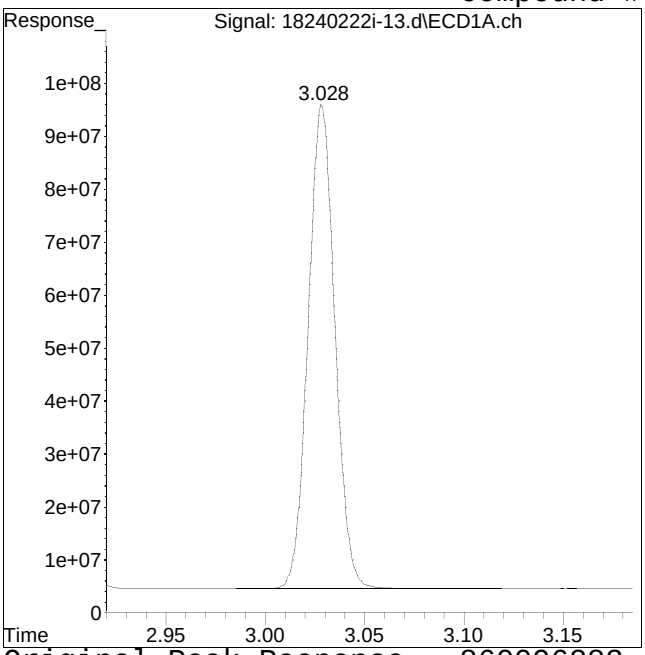


Original Peak Response = 849167779 Manual Peak Response = 847274722 M4
M4 = Poor automated baseline construction.

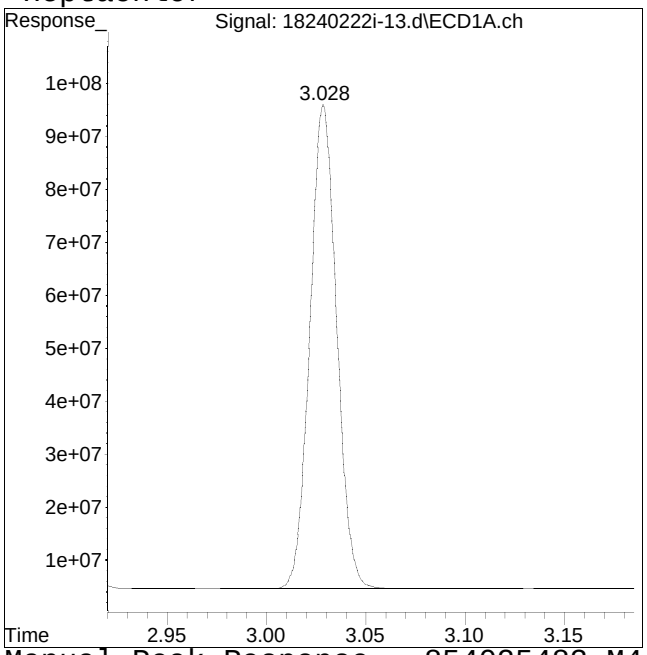
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #8: Heptachlor



Original Peak Response = 860096283



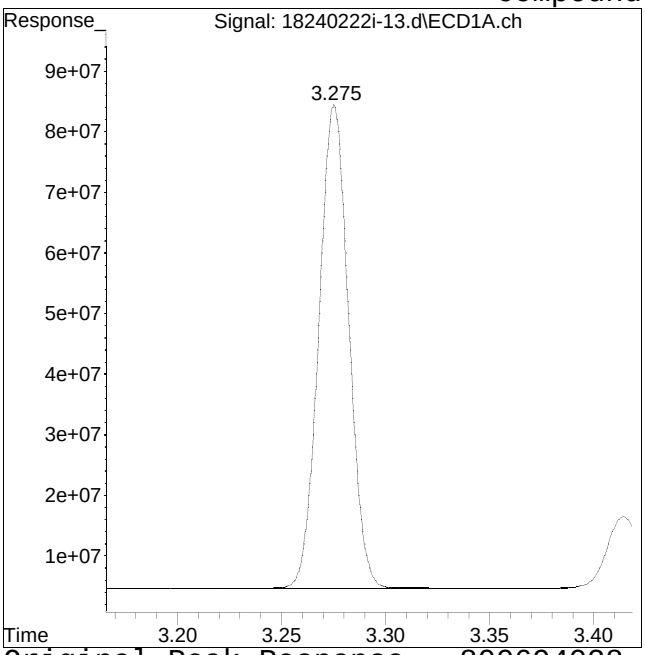
Manual Peak Response = 854025483 M4

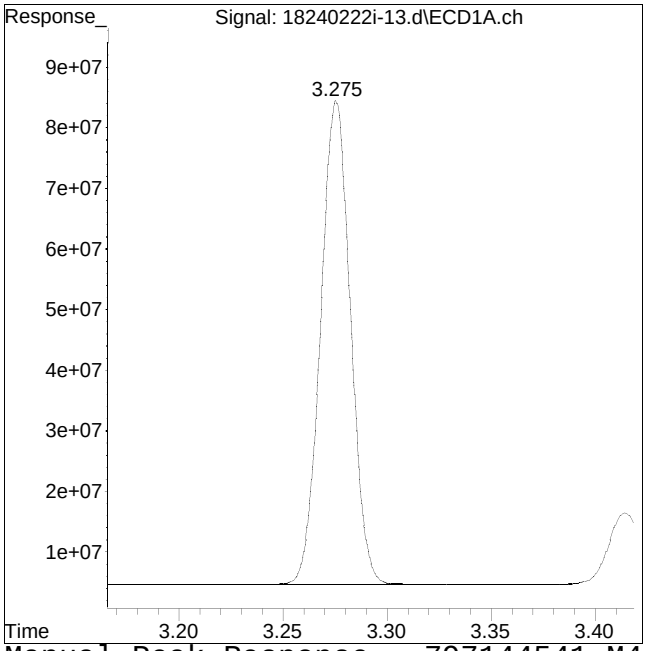
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #9: Aldrin



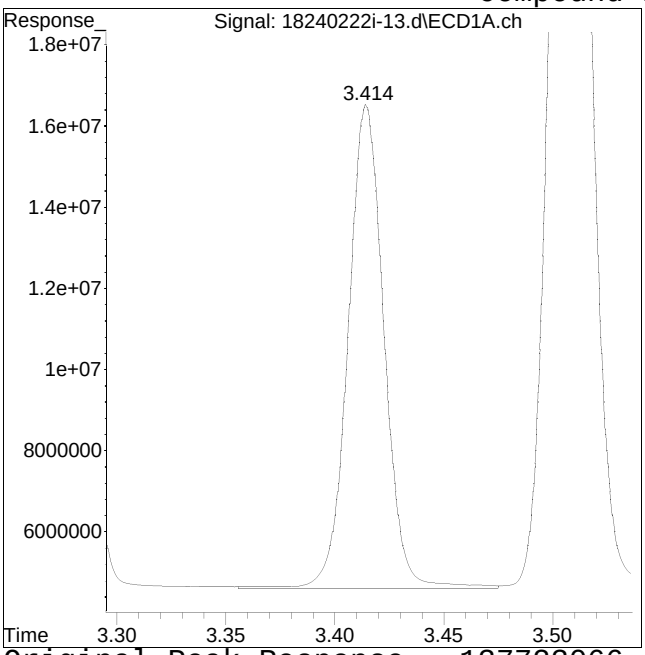


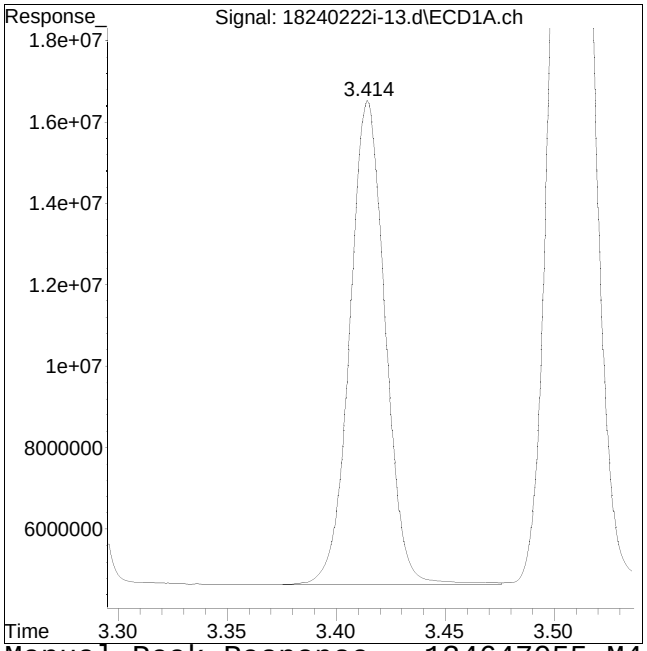
Original Peak Response = 800694928 Manual Peak Response = 797144541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #10: Alachlor



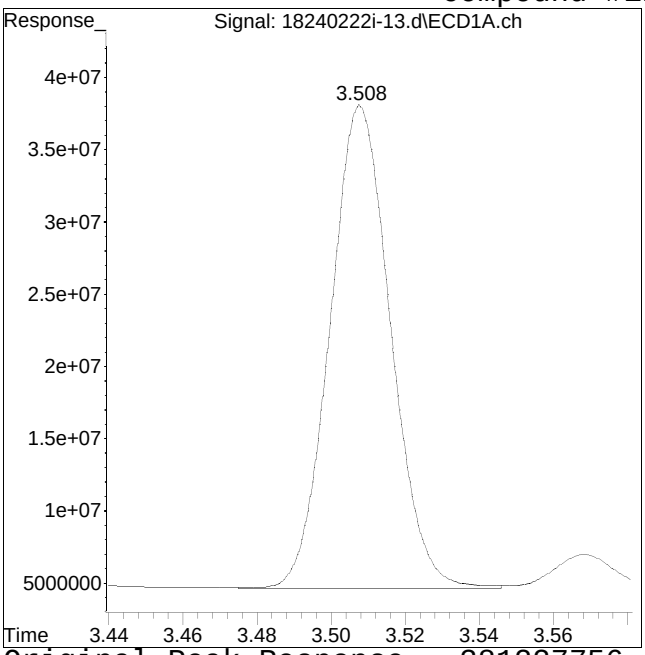


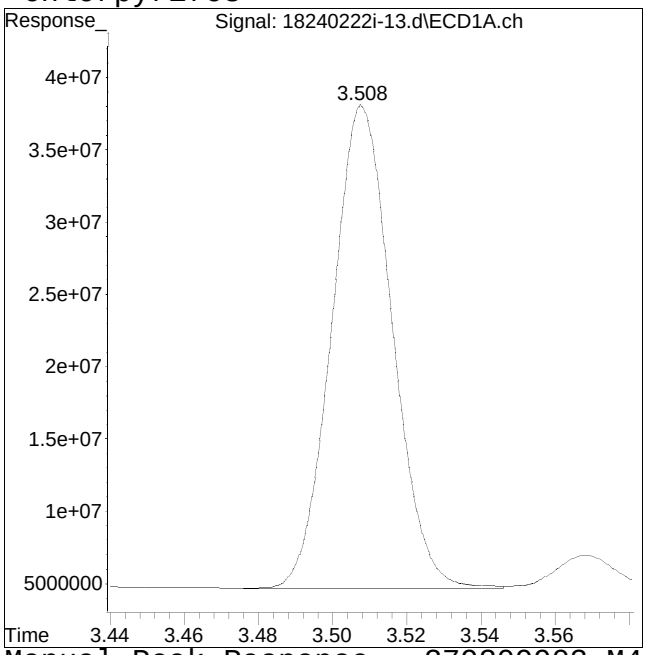
Original Peak Response = 137723066 Manual Peak Response = 134647055 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #11: Chlorpyrifos



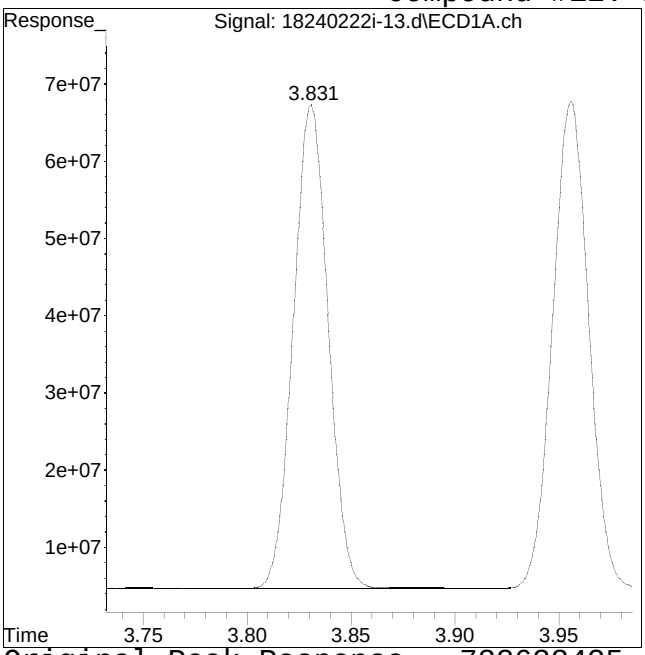


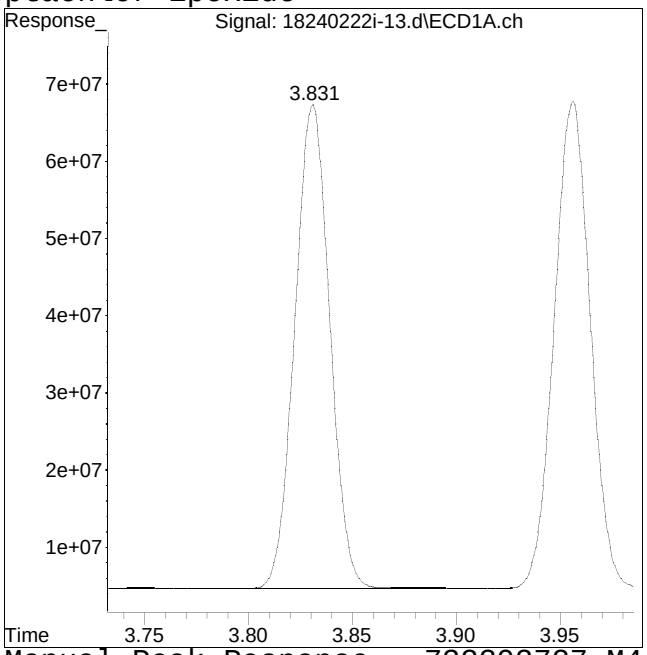
Original Peak Response = 381227756 Manual Peak Response = 379309903 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #12: Heptachlor Epoxide



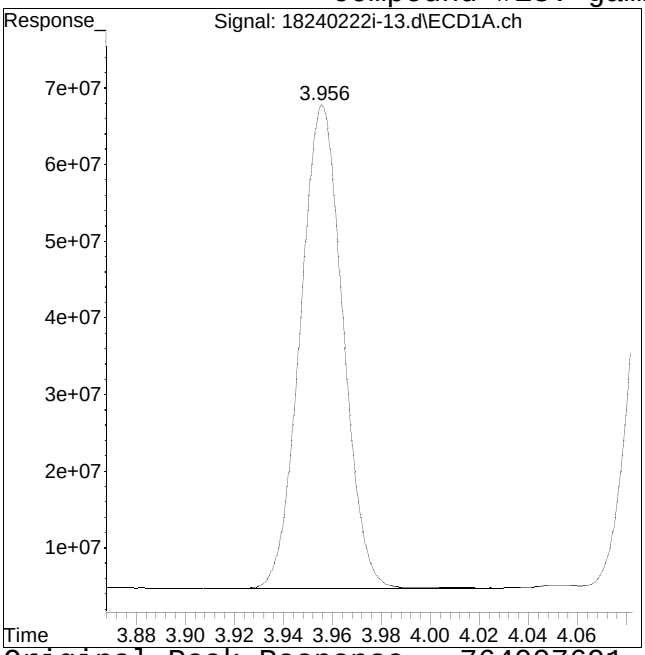


Original Peak Response = 733632425 Manual Peak Response = 732393727 M4
M4 = Poor automated baseline construction.

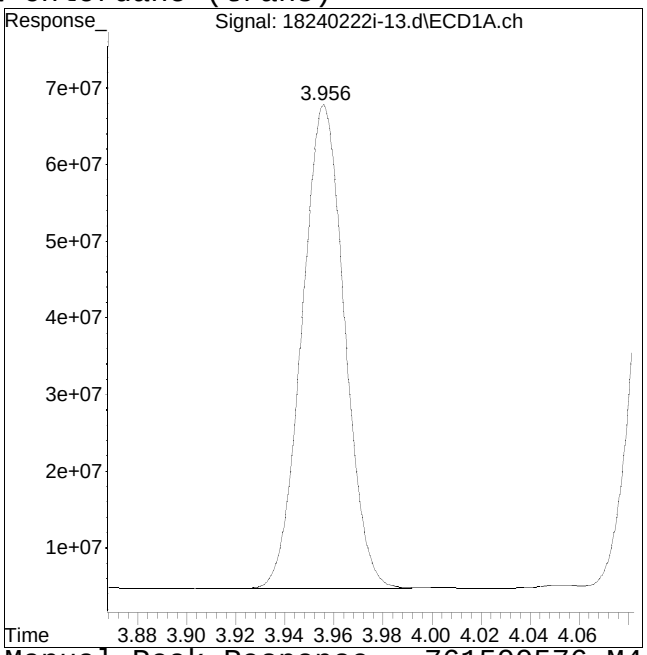
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 764007691



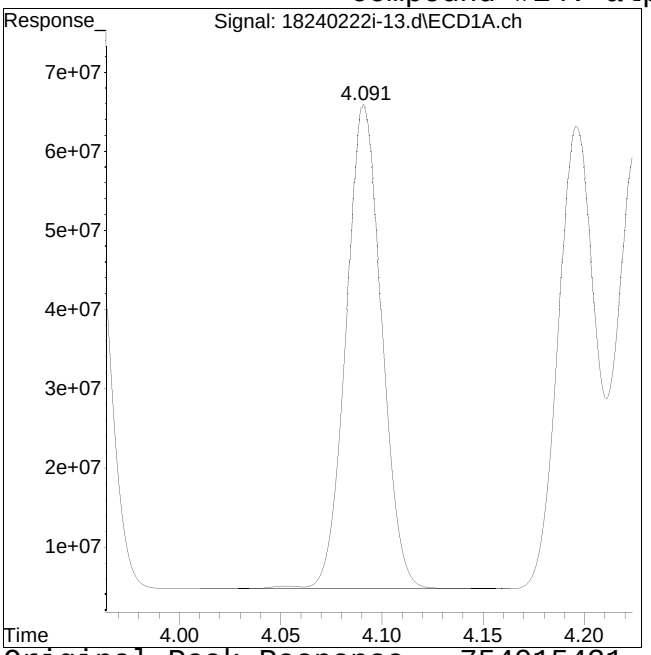
Manual Peak Response = 761500576 M4

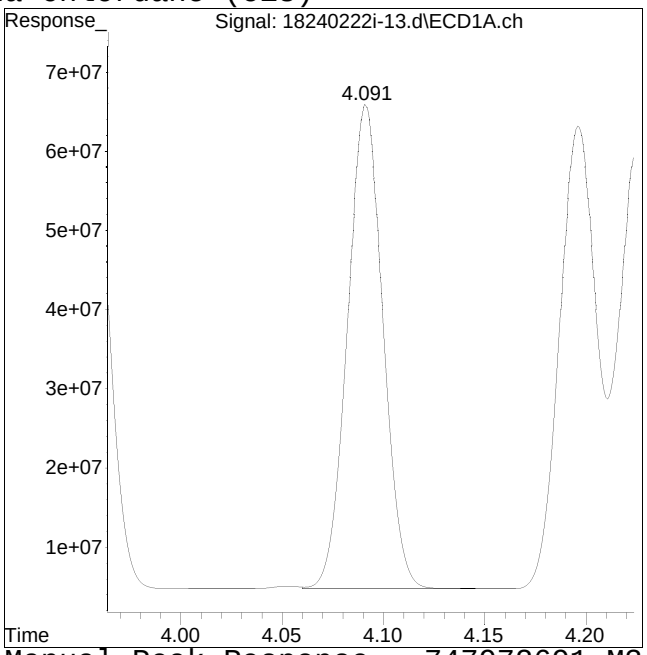
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #14: alpha-Chlordane (cis)



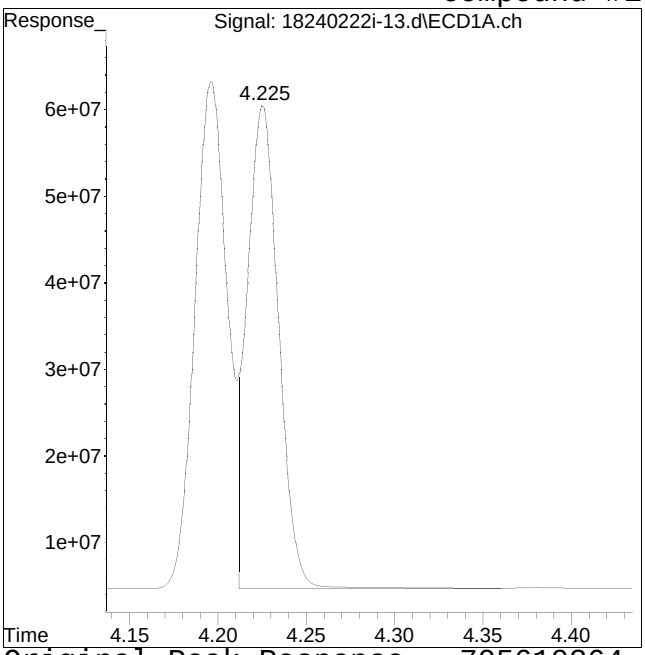


Original Peak Response = 754015431 Manual Peak Response = 747972691 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

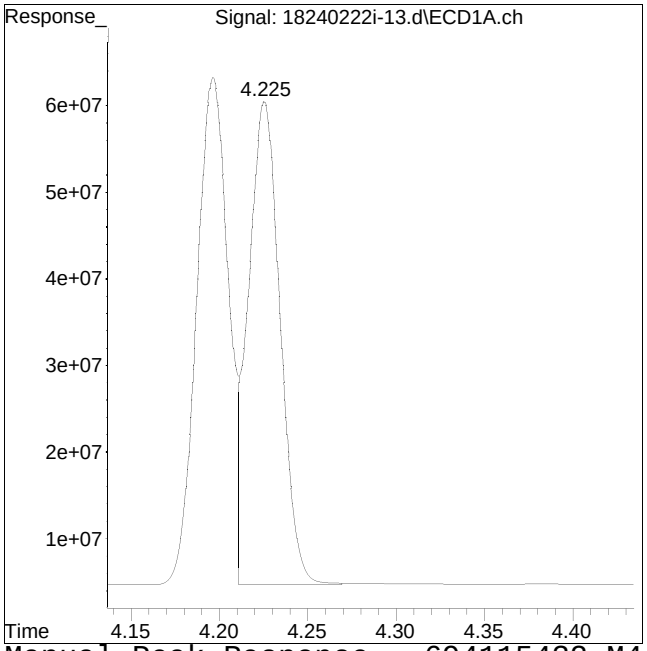
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #16: Endosulfan I



Original Peak Response = 705610364



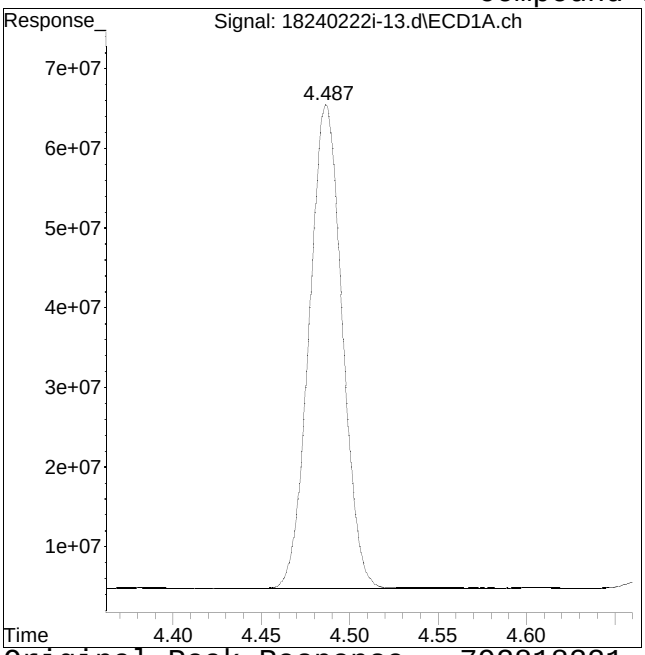
Manual Peak Response = 694115432 M4

M4 = Poor automated baseline construction.

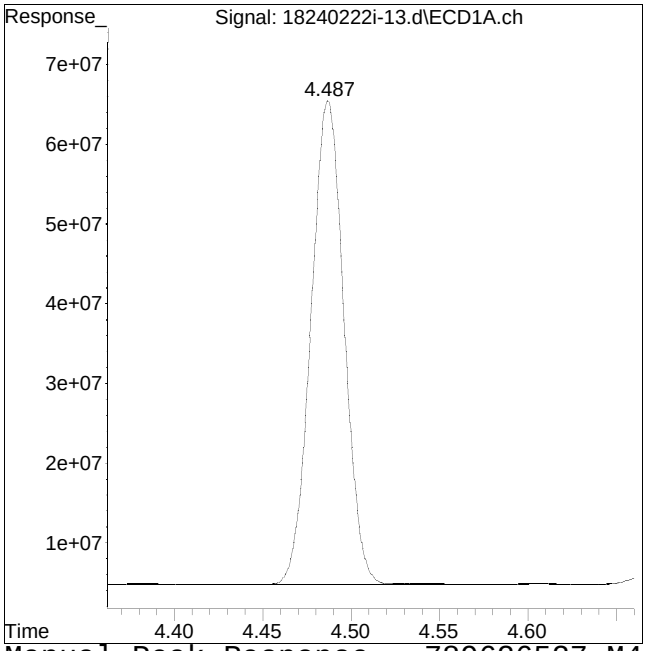
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #17: Dieldrin



Original Peak Response = 792818321

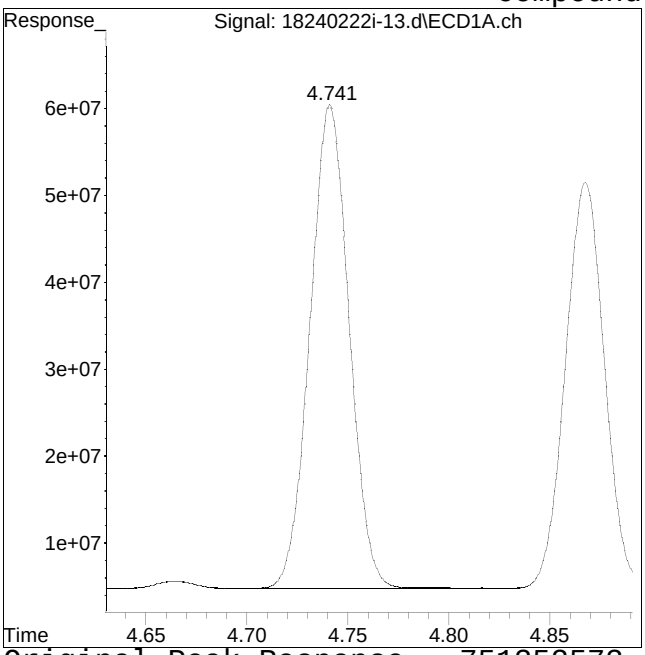


Manual Peak Response = 789626527 M4
M4 = Poor automated baseline construction.

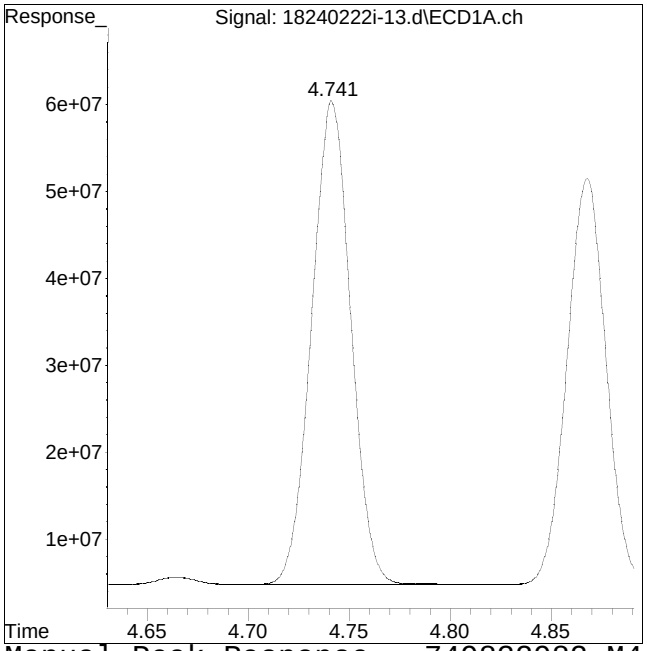
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #18: Endrin



Original Peak Response = 751352573



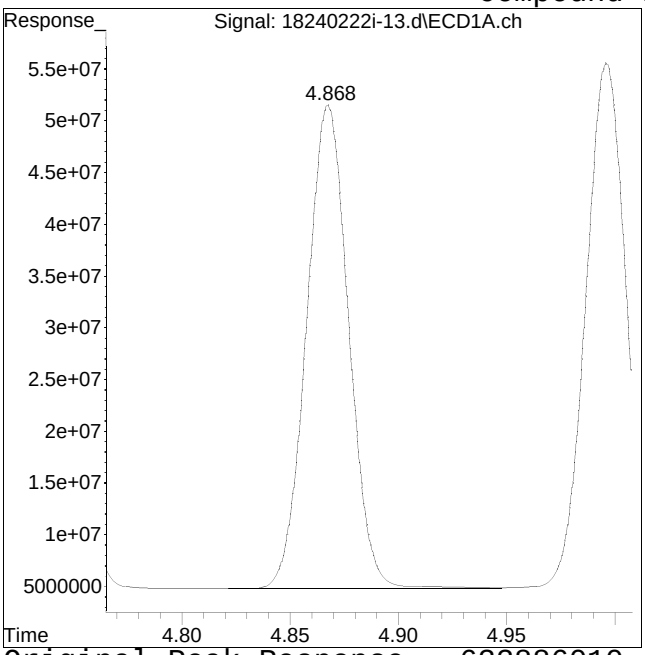
Manual Peak Response = 749832982 M4

M4 = Poor automated baseline construction.

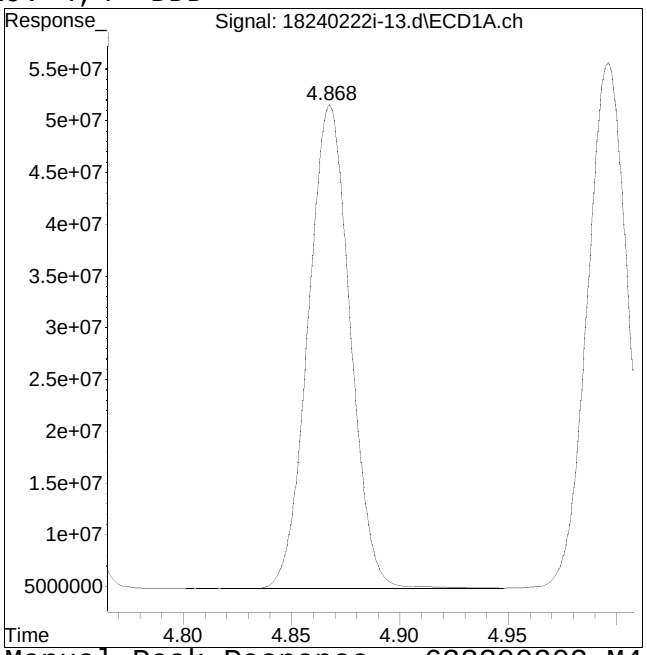
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #19: 4,4'-DDD



Original Peak Response = 633886010



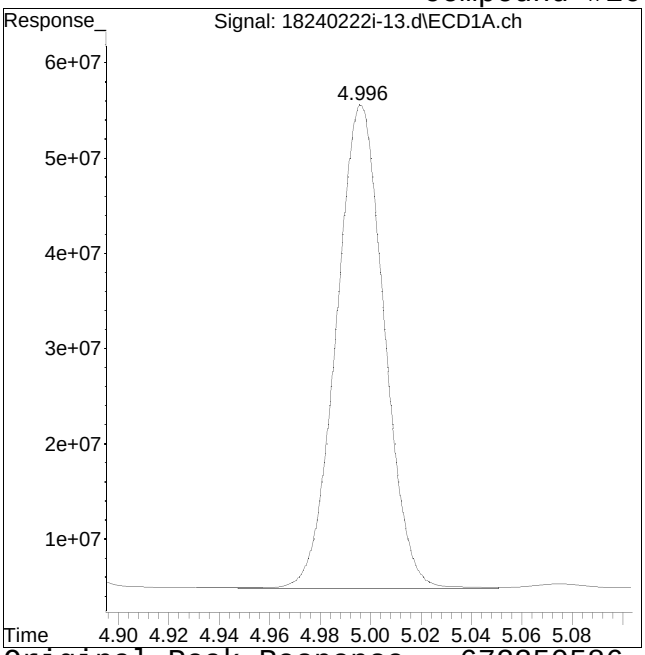
Manual Peak Response = 632300202 M4

M4 = Poor automated baseline construction.

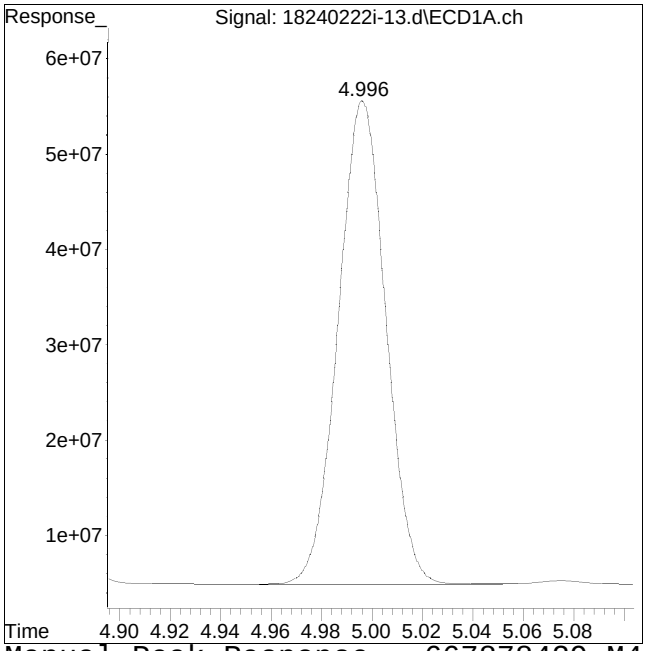
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #20: Endosulfan II



Original Peak Response = 672350586



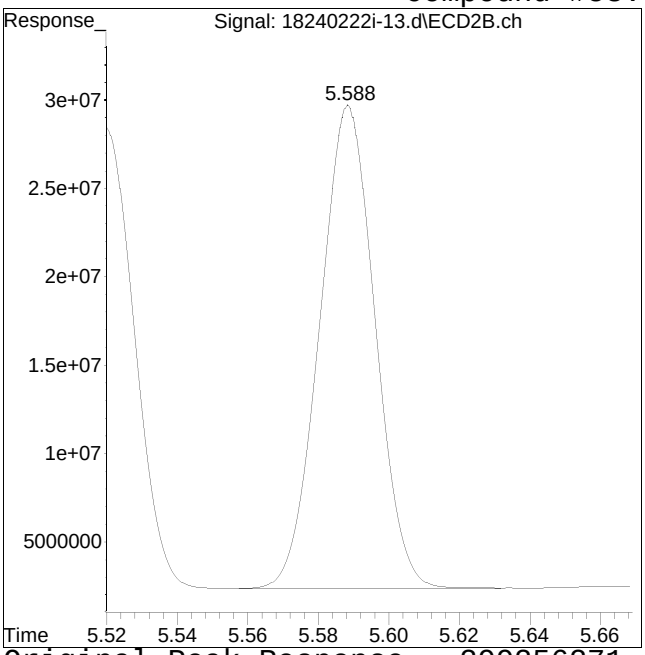
Manual Peak Response = 667878429 M4

M4 = Poor automated baseline construction.

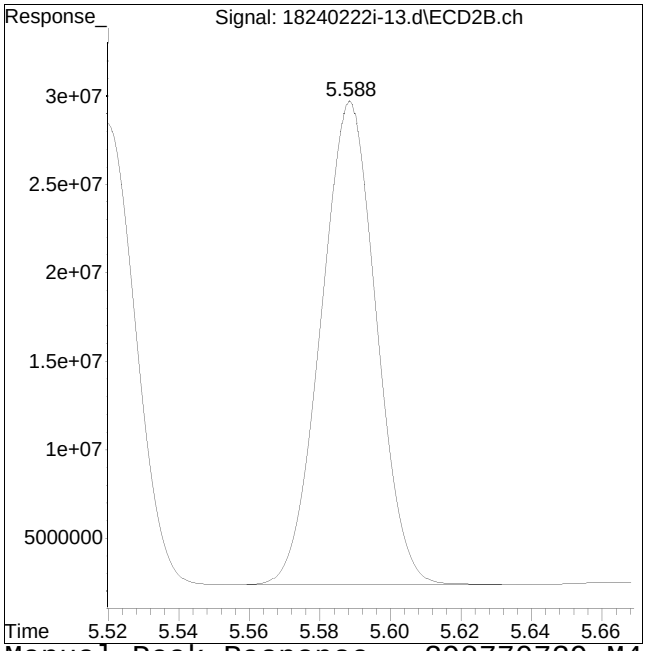
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #58: Endosulfan II #2



Original Peak Response = 299256271



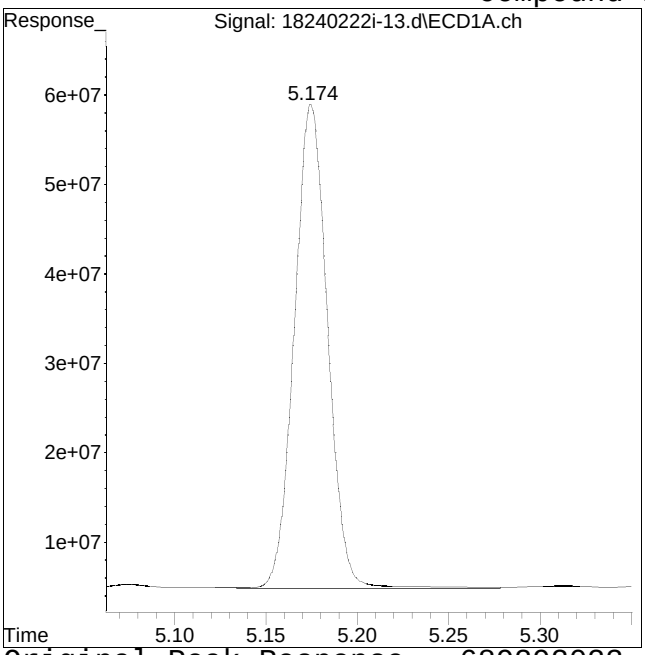
Manual Peak Response = 298770739 M4

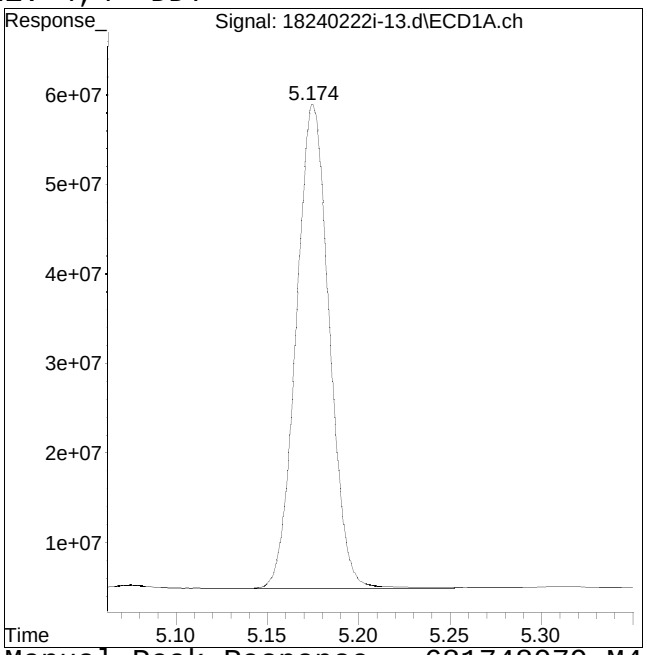
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #21: 4,4'-DDT



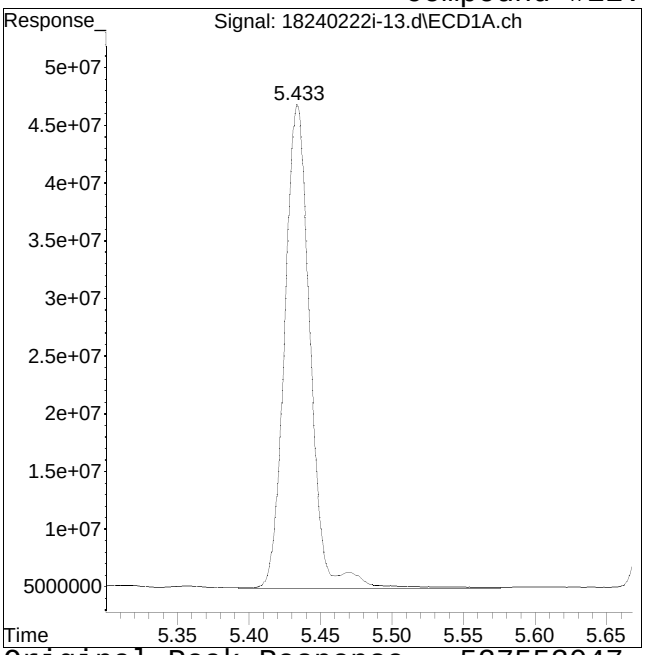


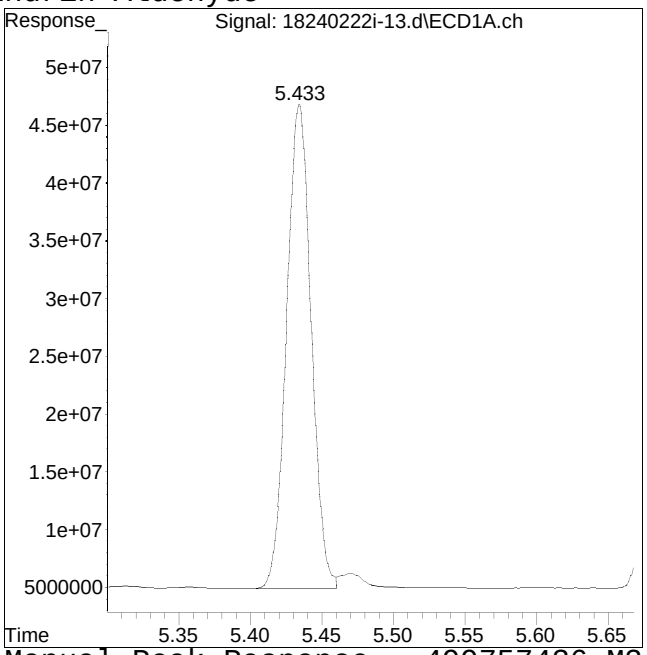
Original Peak Response = 689292023 Manual Peak Response = 681748079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #22: Endrin Aldehyde



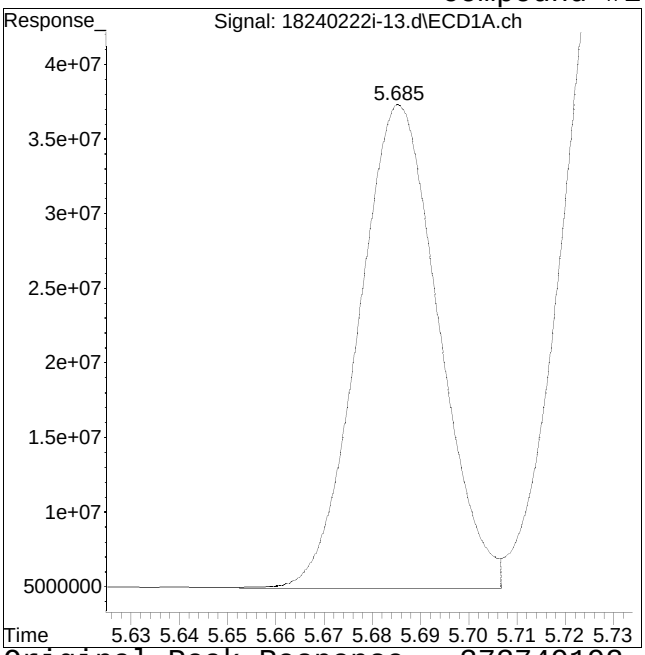


Original Peak Response = 527553047 Manual Peak Response = 499757436 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

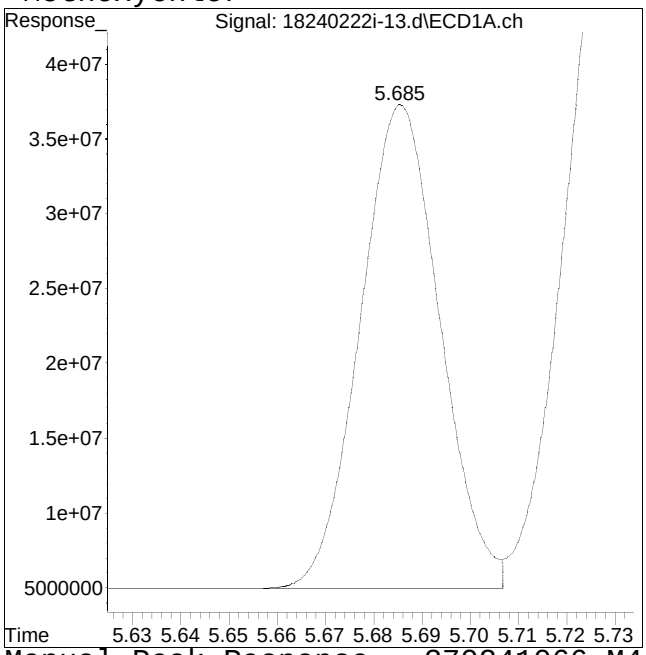
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #23: Methoxychlor



Original Peak Response = 373749192



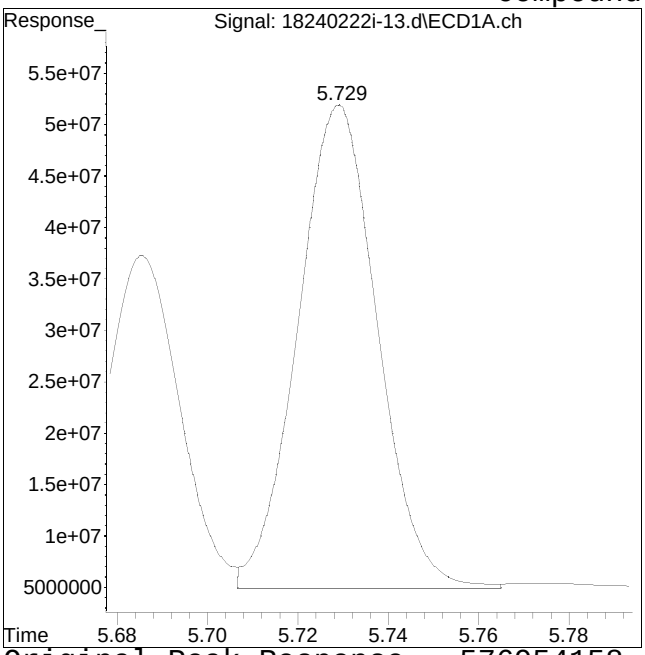
Manual Peak Response = 370241066 M4

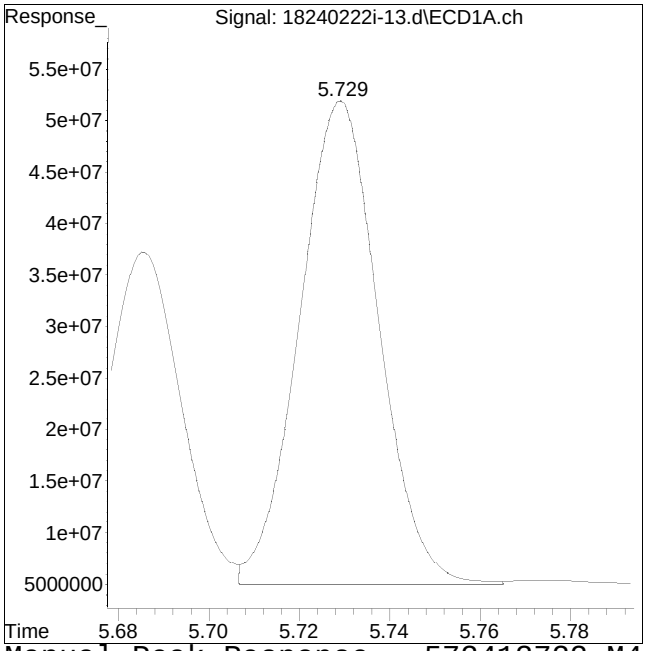
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #24: Mirex



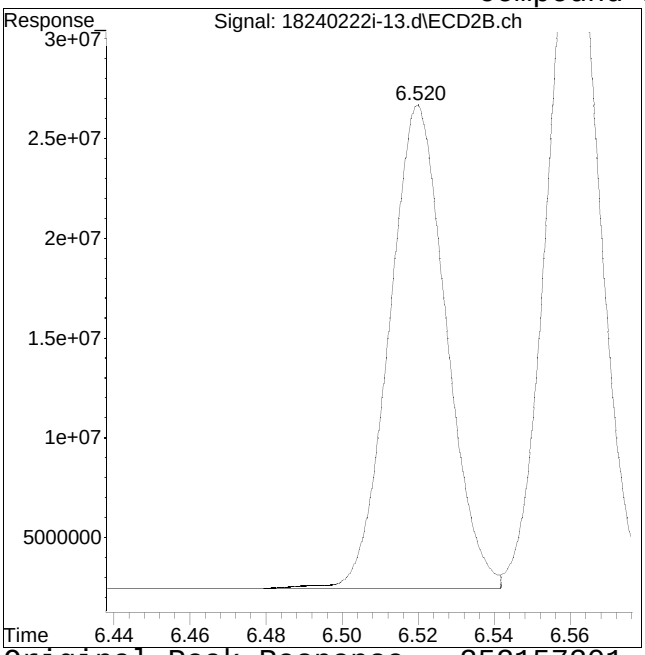


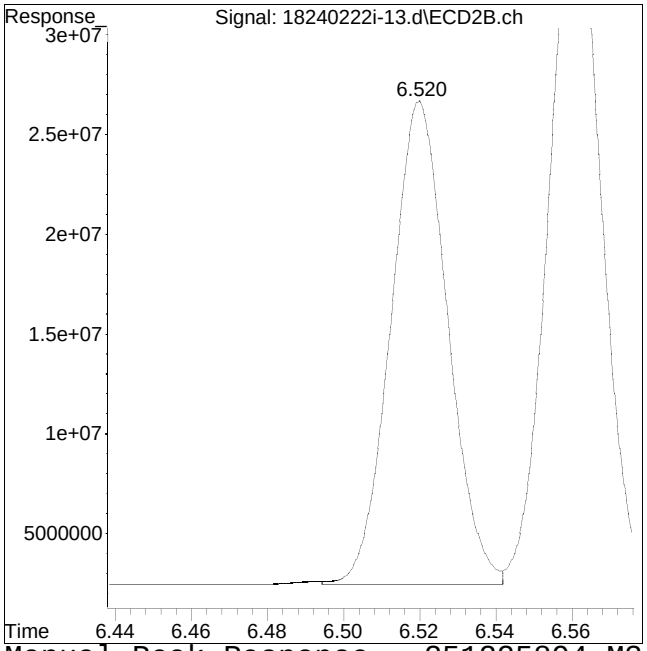
Original Peak Response = 576954158 Manual Peak Response = 572413722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #62: Mirex #2



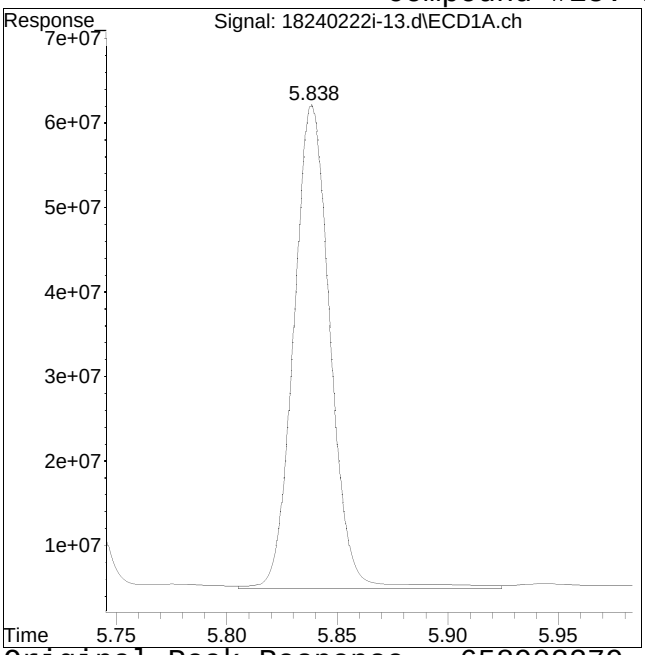


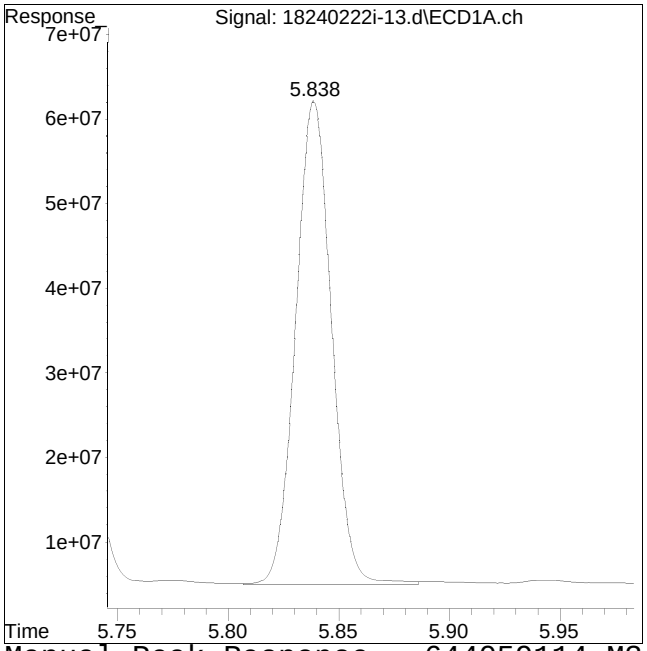
Original Peak Response = 252157301 Manual Peak Response = 251225894 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #25: Endosulfan Sulfate



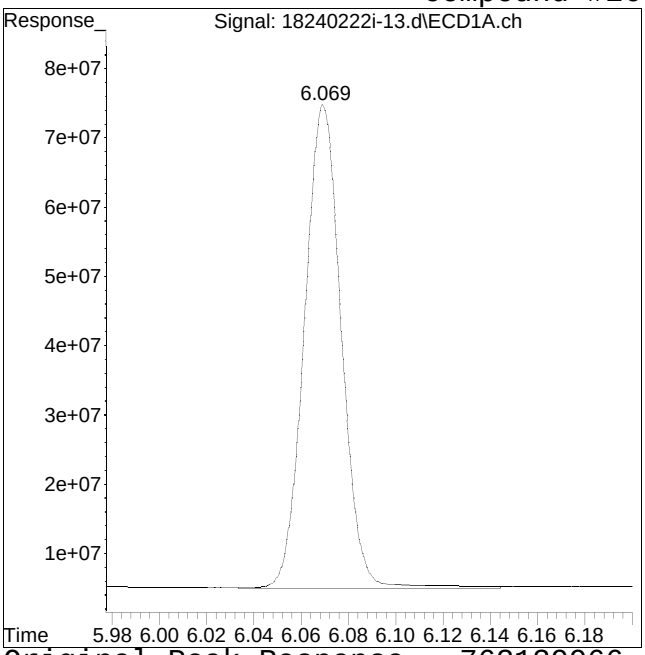


Original Peak Response = 658902379 Manual Peak Response = 644059114 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

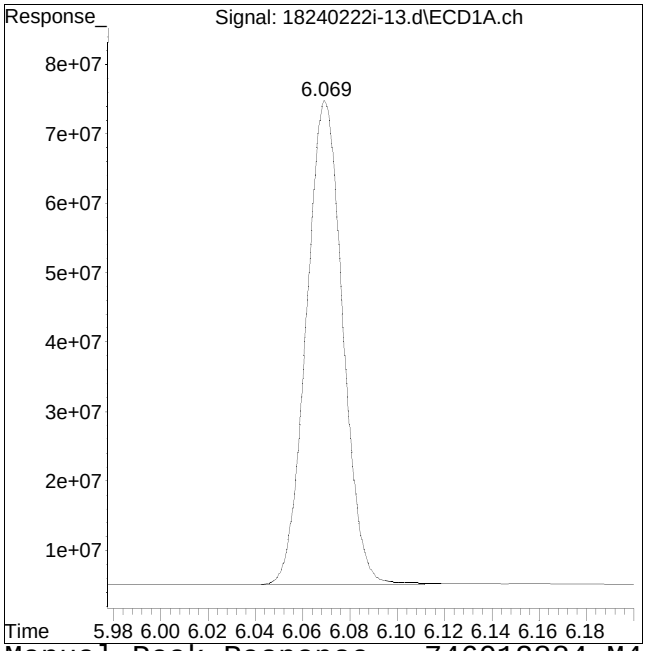
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #26: Endrin Ketone



Original Peak Response = 763139966



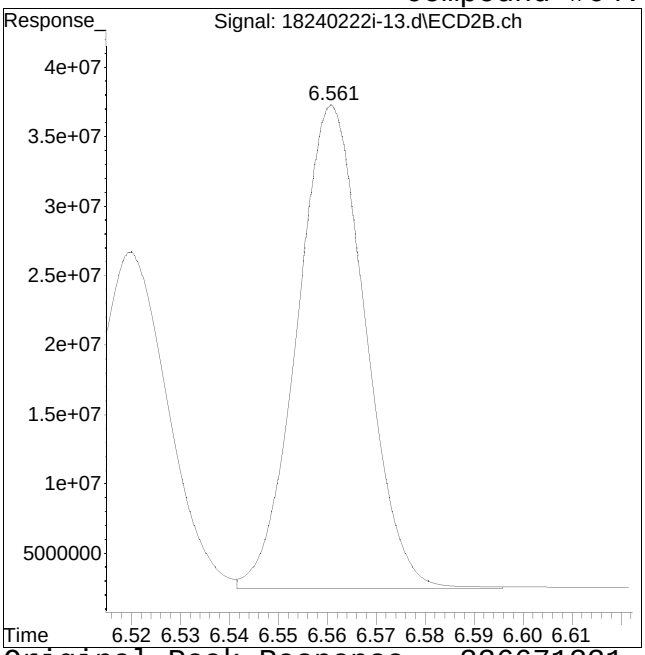
Manual Peak Response = 746012884 M4

M4 = Poor automated baseline construction.

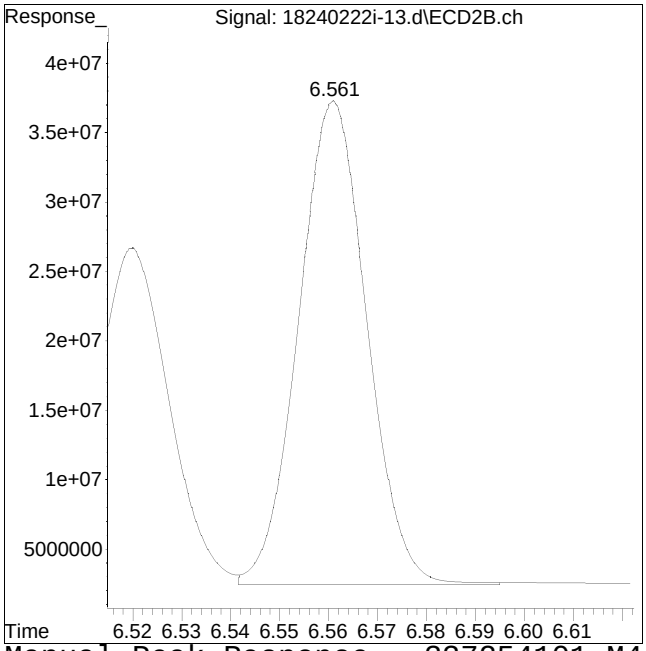
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 336671331



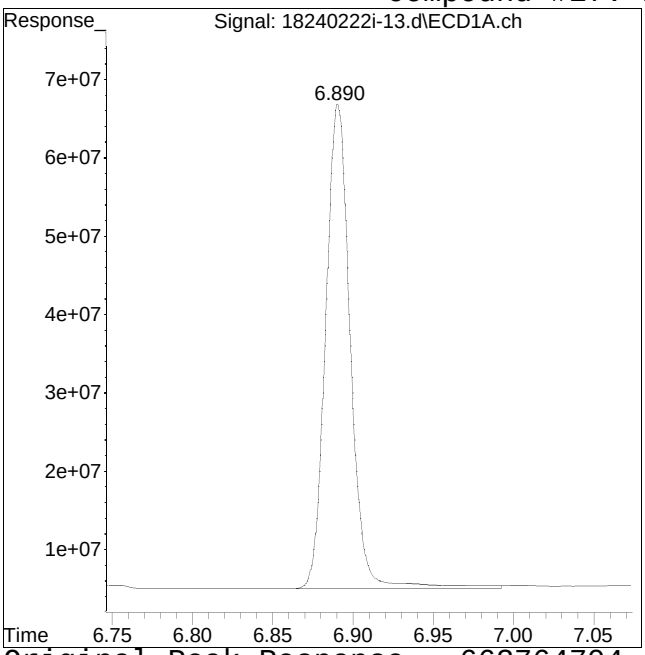
Manual Peak Response = 337254101 M4

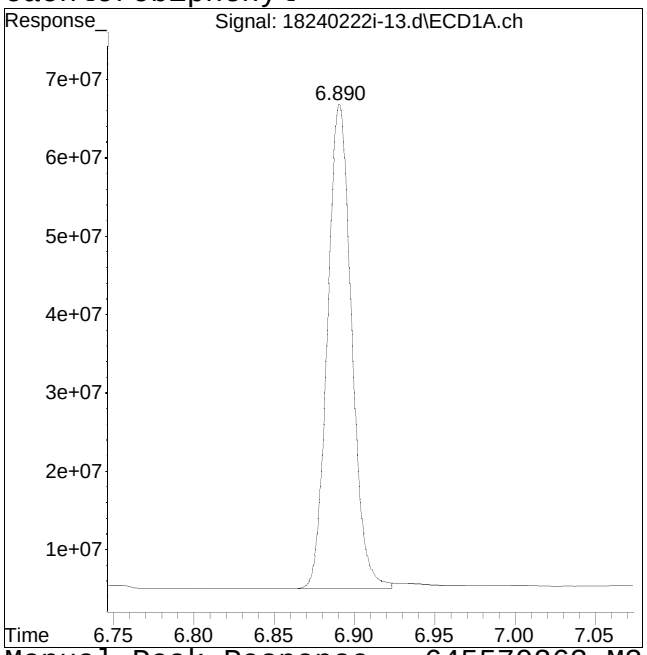
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-13.d Operator : PEST18:ejl
Date Inj'd : 2/22/2024 3:03 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11430 L0.Quant Date : 2/27/2024 3:44 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 663764704 Manual Peak Response = 645570263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:17 pm
Operator : PEST18:ejl
Sample : pem18240222i-02,42e,,pp 11372 -- (Sig #1); pem-02,42e,,pp 11372 -- (Sig #2)
Misc : WG1892874,ical
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:59:13 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:10:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.670	1.724	419.1E6	177.1E6	25.000M3	25.000M3
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.204	4.908	727110	413224	0.043M3	0.058
18)	Endrin	4.748	5.380	847.8E6	342.9E6	47.792M4	49.452
19)	4,4'-DDD	4.874	5.524	2730630	1395034	0.195M4	0.236
21)	4,4'-DDT	5.181	5.814	1467.1E6	679.2E6	95.683M4	99.990
22)	Endrin Aldeh	5.441	5.915	1250211	2978398	N.D. M3	0.250M4
26)	Endrin Keton	6.074	6.565	3107747	1833241	0.184M4	0.257M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

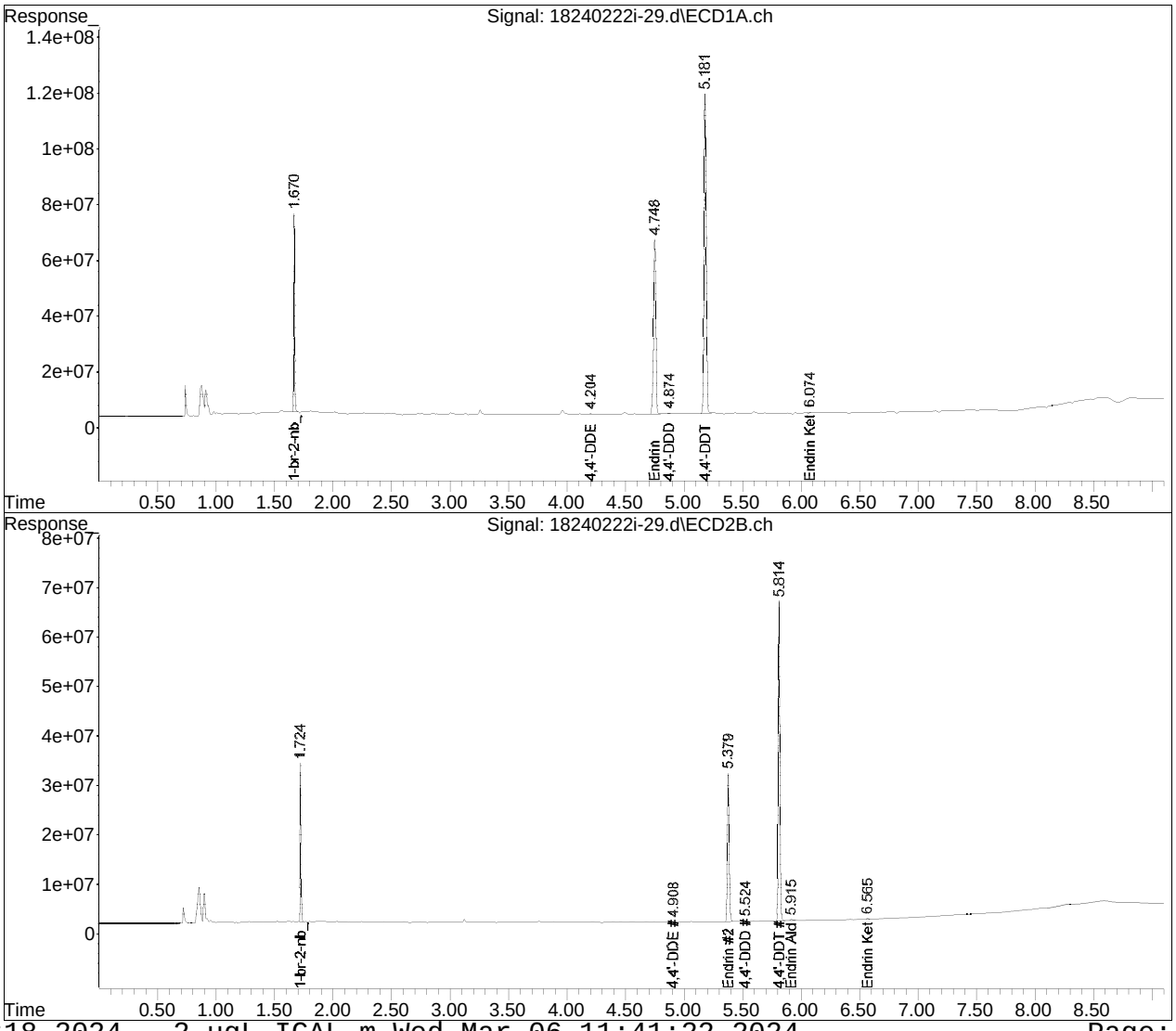
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:17 pm
Operator : PEST18:ejl
Sample : pem18240222i-02,42e,,pp 11372 -- (Sig #1); pem-02,42e,,pp 11372 --
Misc : WG1892874,ical
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:59:13 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:10:20 2024
Response via : Initial Calibration
Integrator: ChemStation

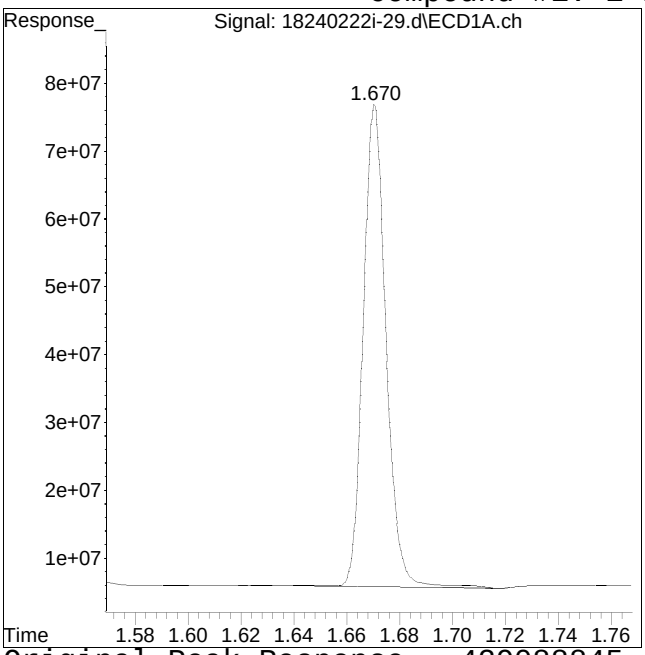
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

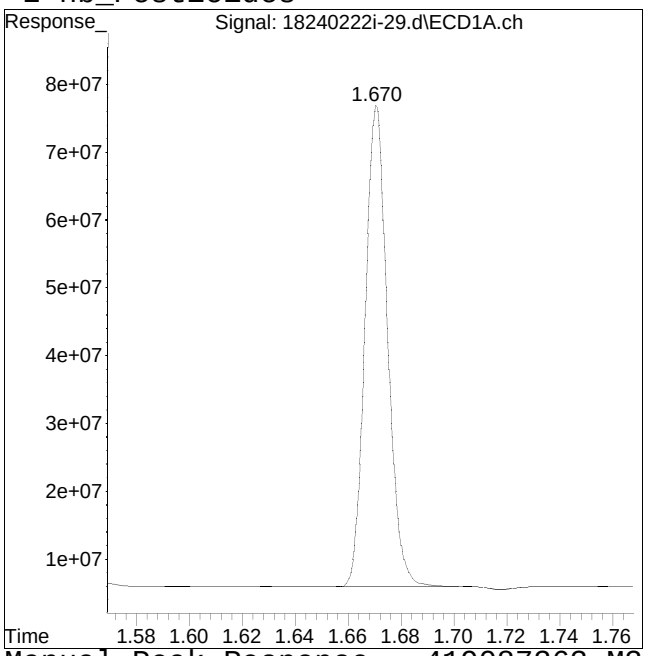


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #1: 1-br-2-nb_Pesticides



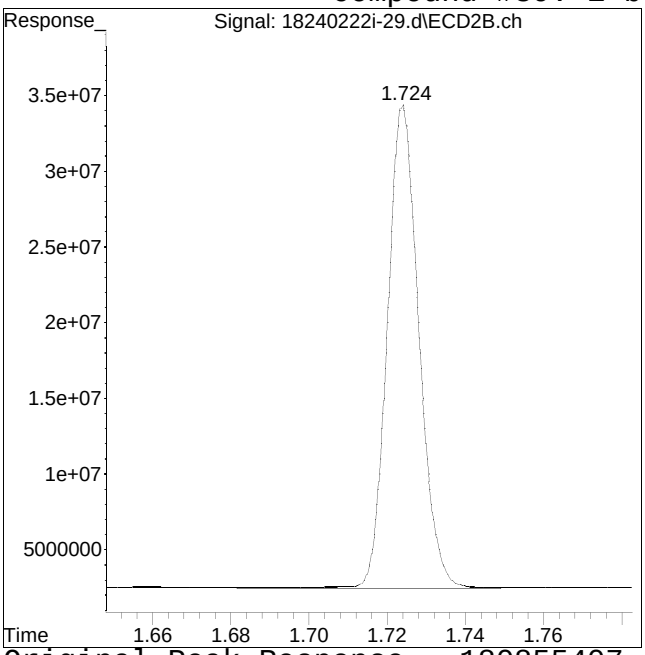


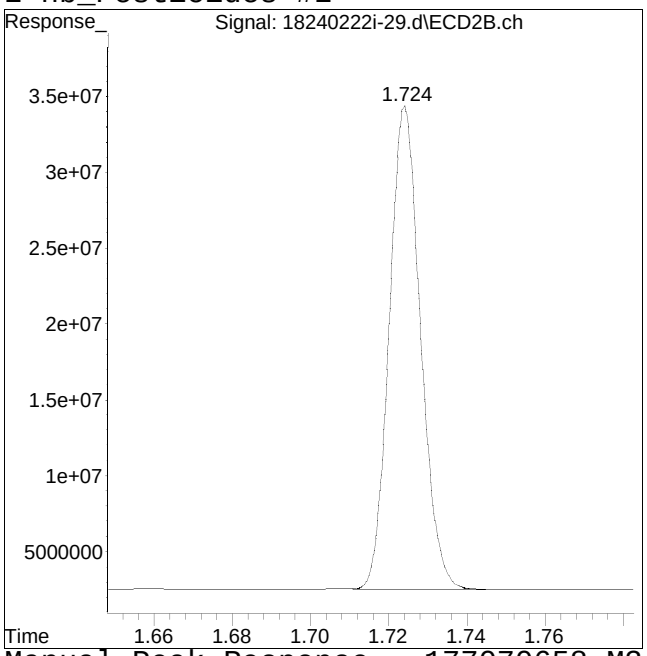
Original Peak Response = 429088845 Manual Peak Response = 419087363 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #39: 1-br-2-nb_Pesticides #2



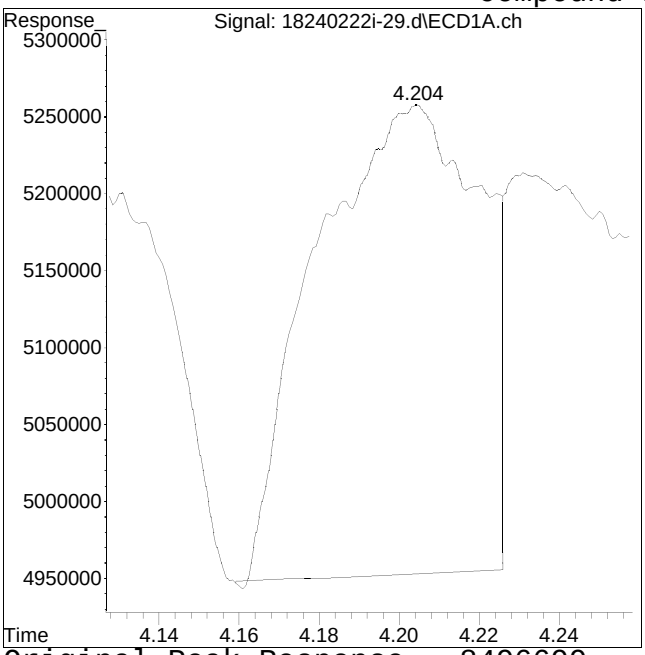


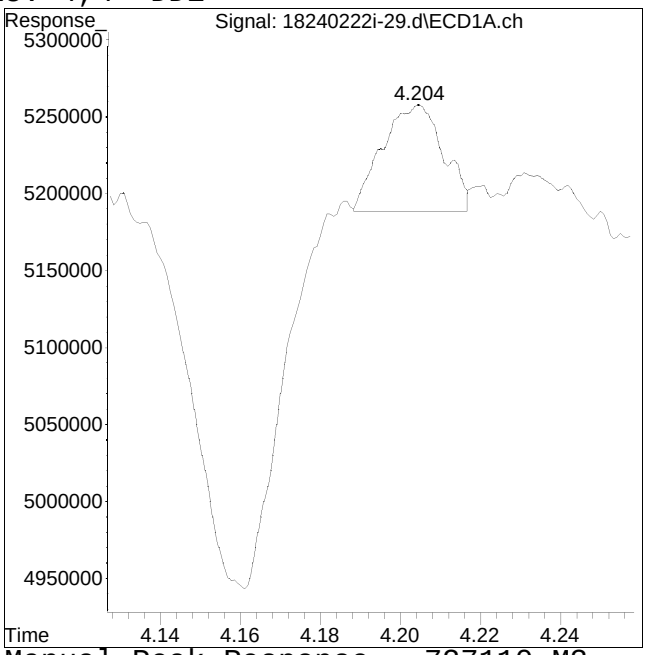
Original Peak Response = 180855407 Manual Peak Response = 177070658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #15: 4,4'-DDE



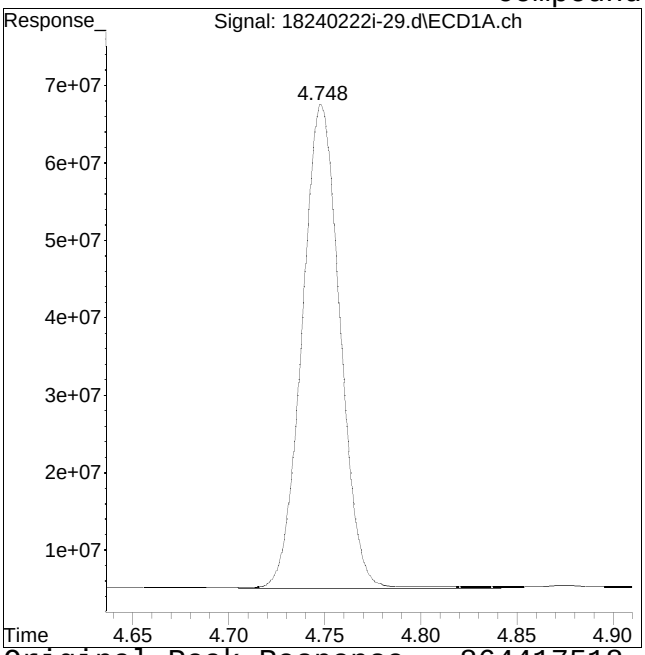


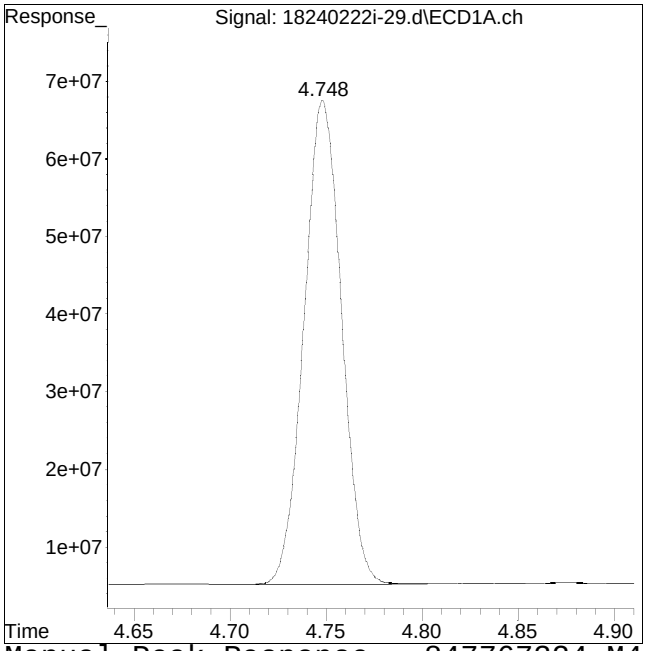
Original Peak Response = 8496699 Manual Peak Response = 727110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #18: Endrin



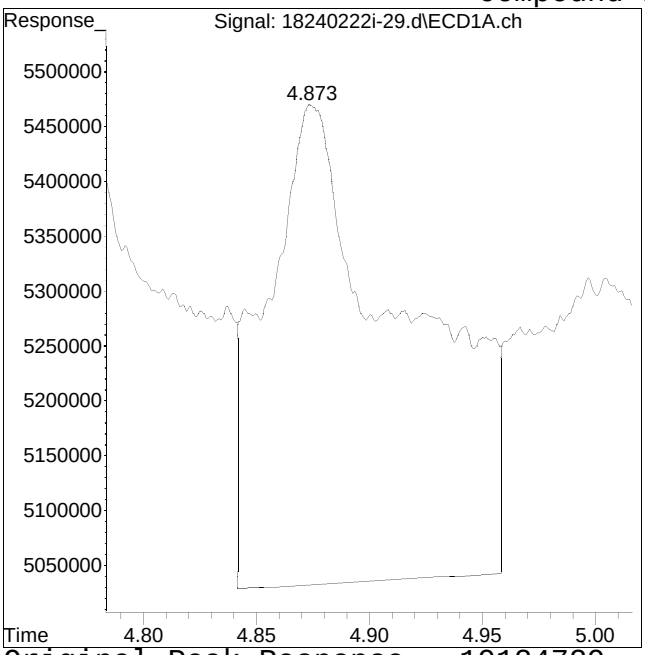


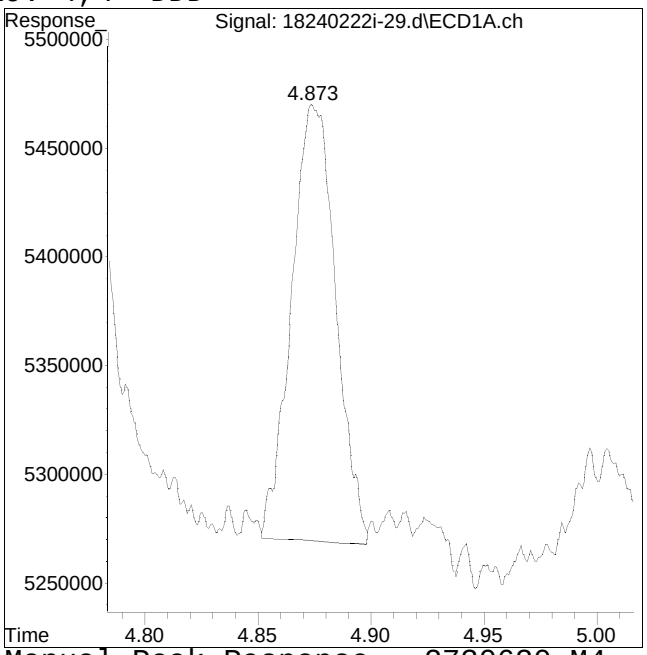
Original Peak Response = 864417518 Manual Peak Response = 847767324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #19: 4,4'-DDD



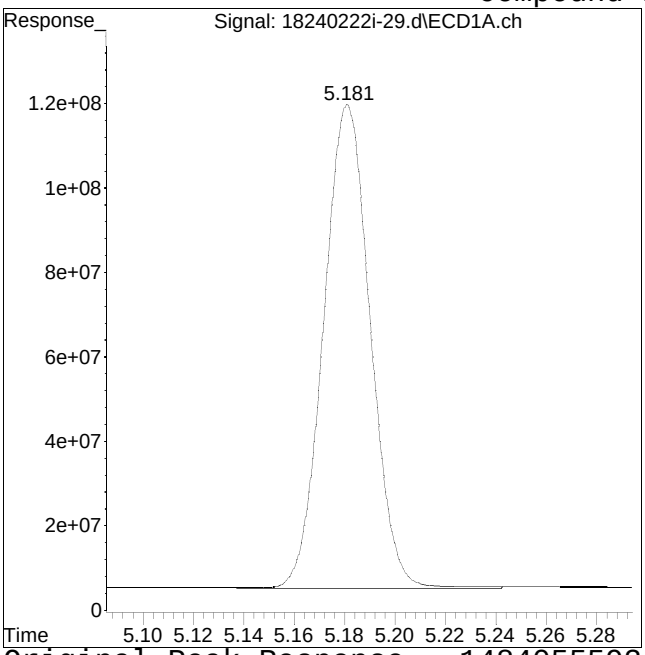


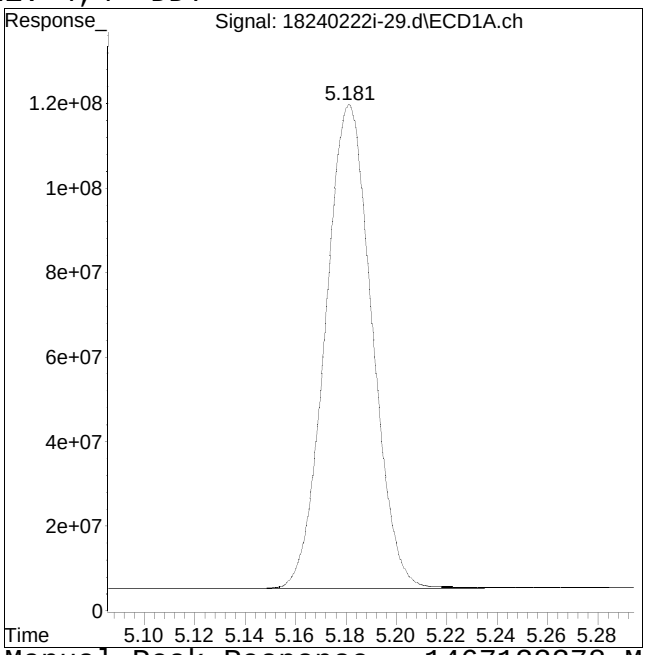
Original Peak Response = 19124729 Manual Peak Response = 2730630 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #21: 4,4'-DDT



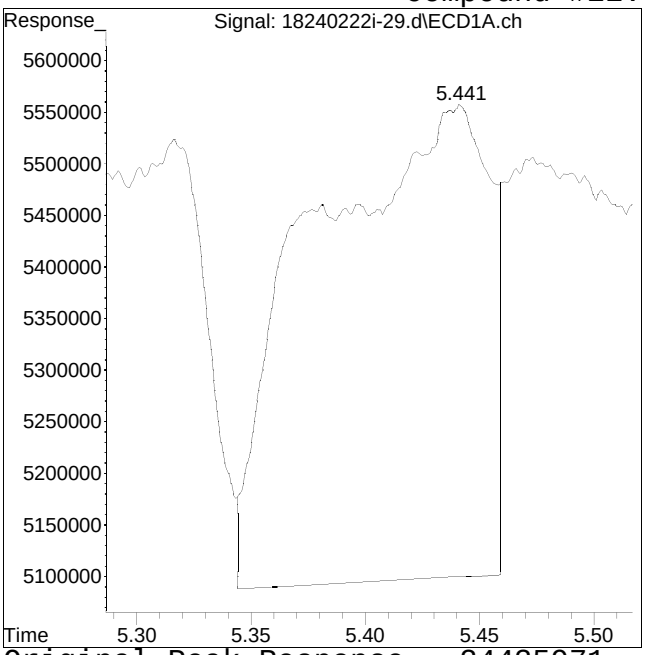


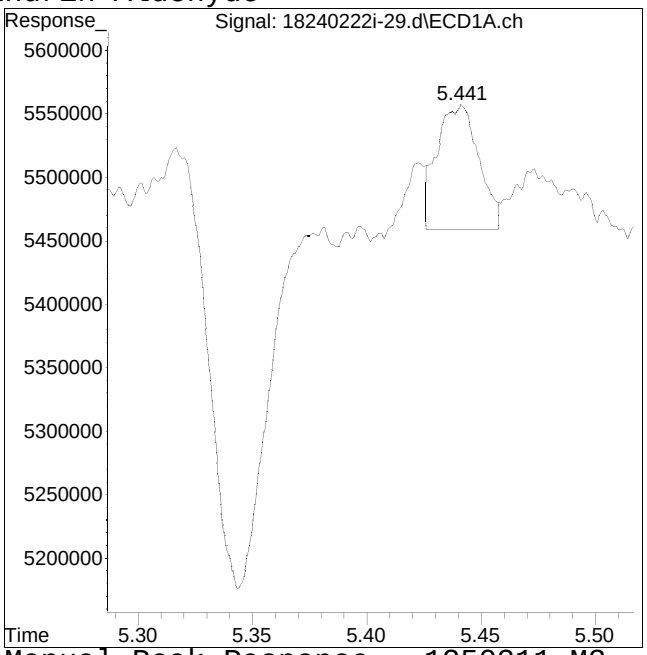
Original Peak Response = 1484055593 Manual Peak Response = 1467123378 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #22: Endrin Aldehyde



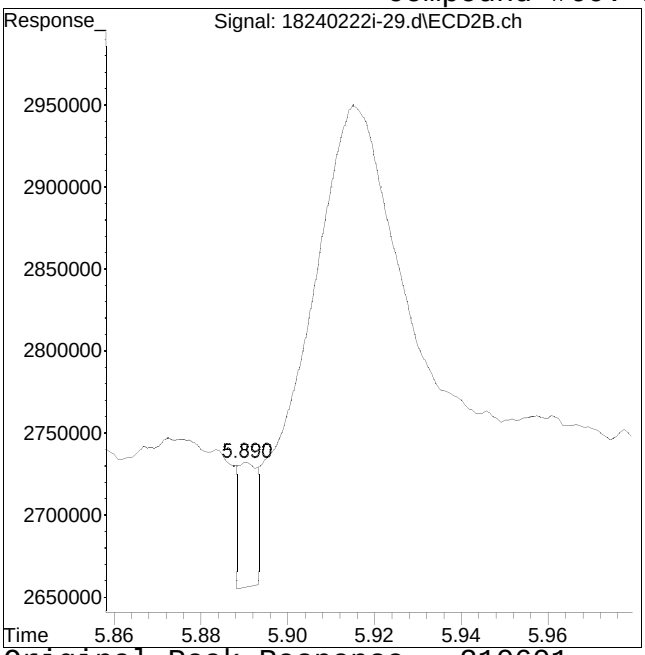


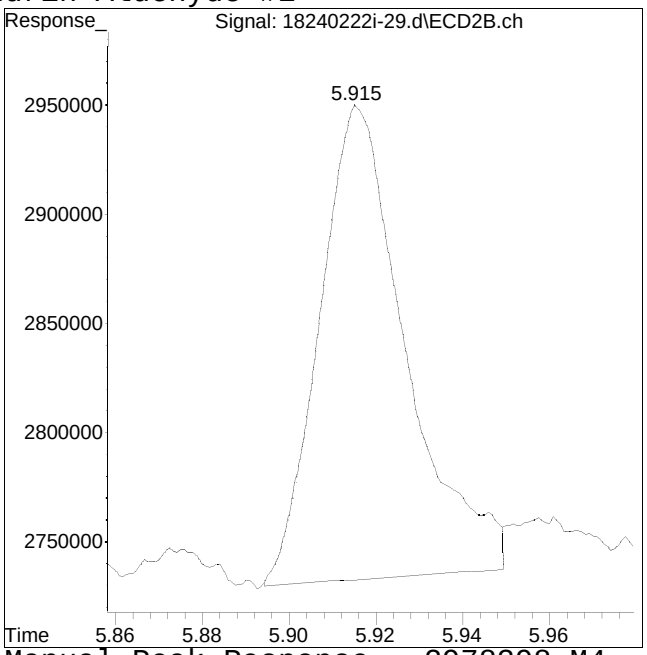
Original Peak Response = 24435971 Manual Peak Response = 1250211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #60: Endrin Aldehyde #2



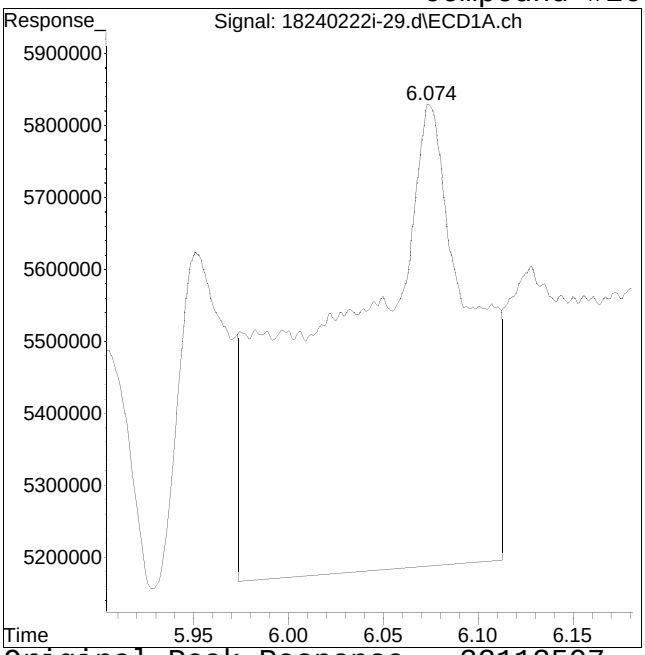


Original Peak Response = 210601 Manual Peak Response = 2978398 M4
M4 = Poor automated baseline construction.

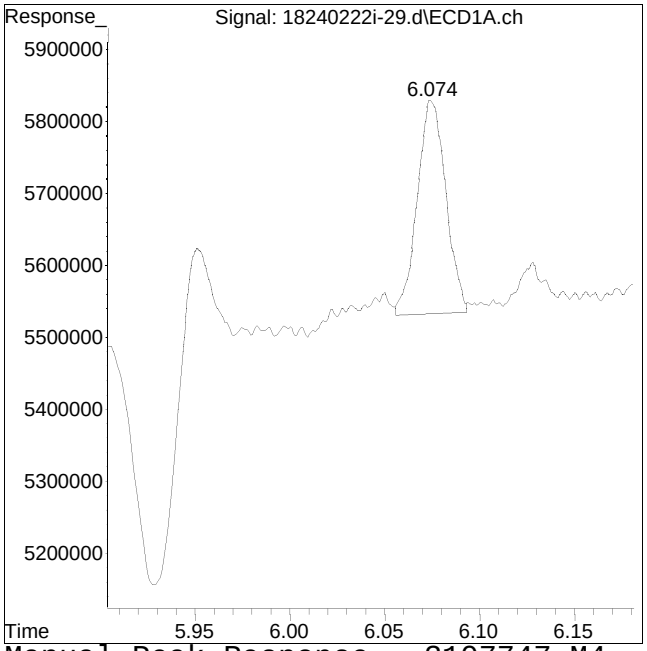
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #26: Endrin Ketone



Original Peak Response = 32113597



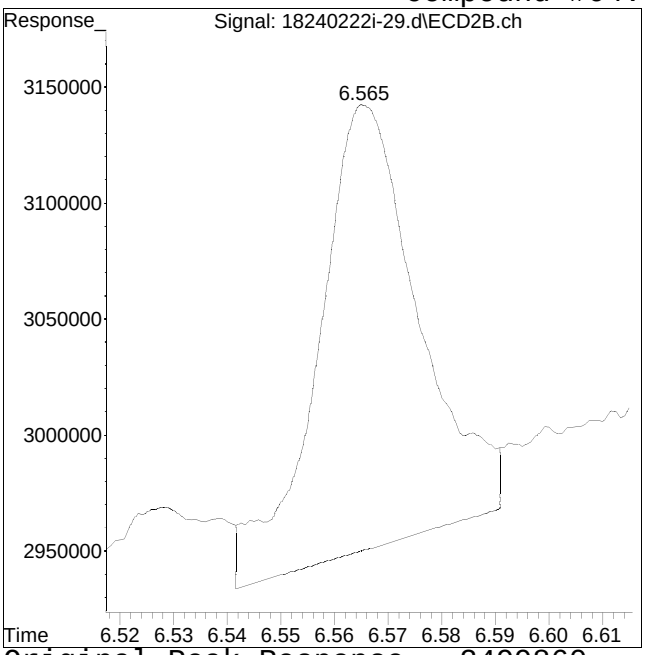
Manual Peak Response = 3107747 M4

M4 = Poor automated baseline construction.

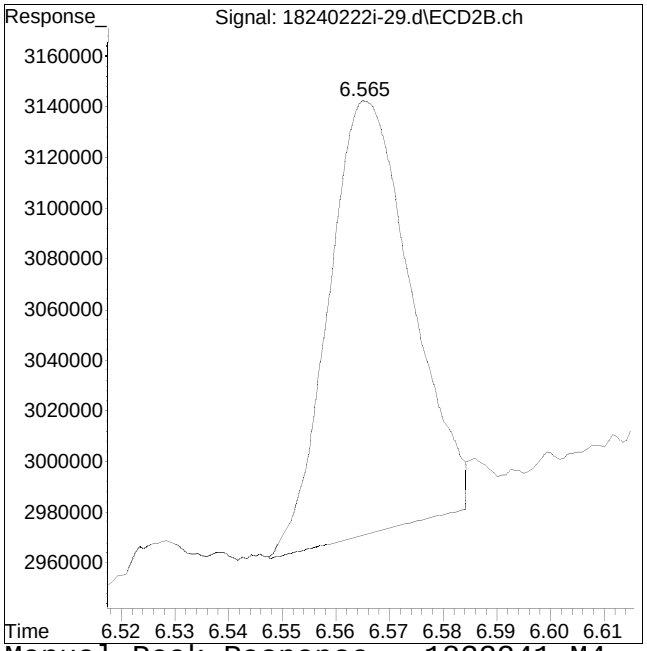
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-29.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:17 pm Instrument : Pest 18
Sample : pem18240222i-02,42e,,pp 11Quant Date : 3/1/2024 9:58 am

Compound #64: Endrin Ketone #2



Original Peak Response = 2499860



Manual Peak Response = 1833241 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:28 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:54:57 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:54:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.669	1.724	363.3E6	155.1E6	25.000M3	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:28 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:54:57 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:54:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.031	3.240	14688776	2887152	14.636M3	13.680
30) l1	chlordane-3	3.398	3.840	9083680	3318138	14.934M4	14.081
31) l1	chlordane-4	3.959	4.506	33637512	10345624	16.079M4	12.419
32) l1	chlordane-5	4.088	4.679	47029041	8618534	14.578M4	13.027
Sum	chlordane-1			104.4E6	25169449	N.D.	N.D. D
Average	chlordane-1					15.057	13.302
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

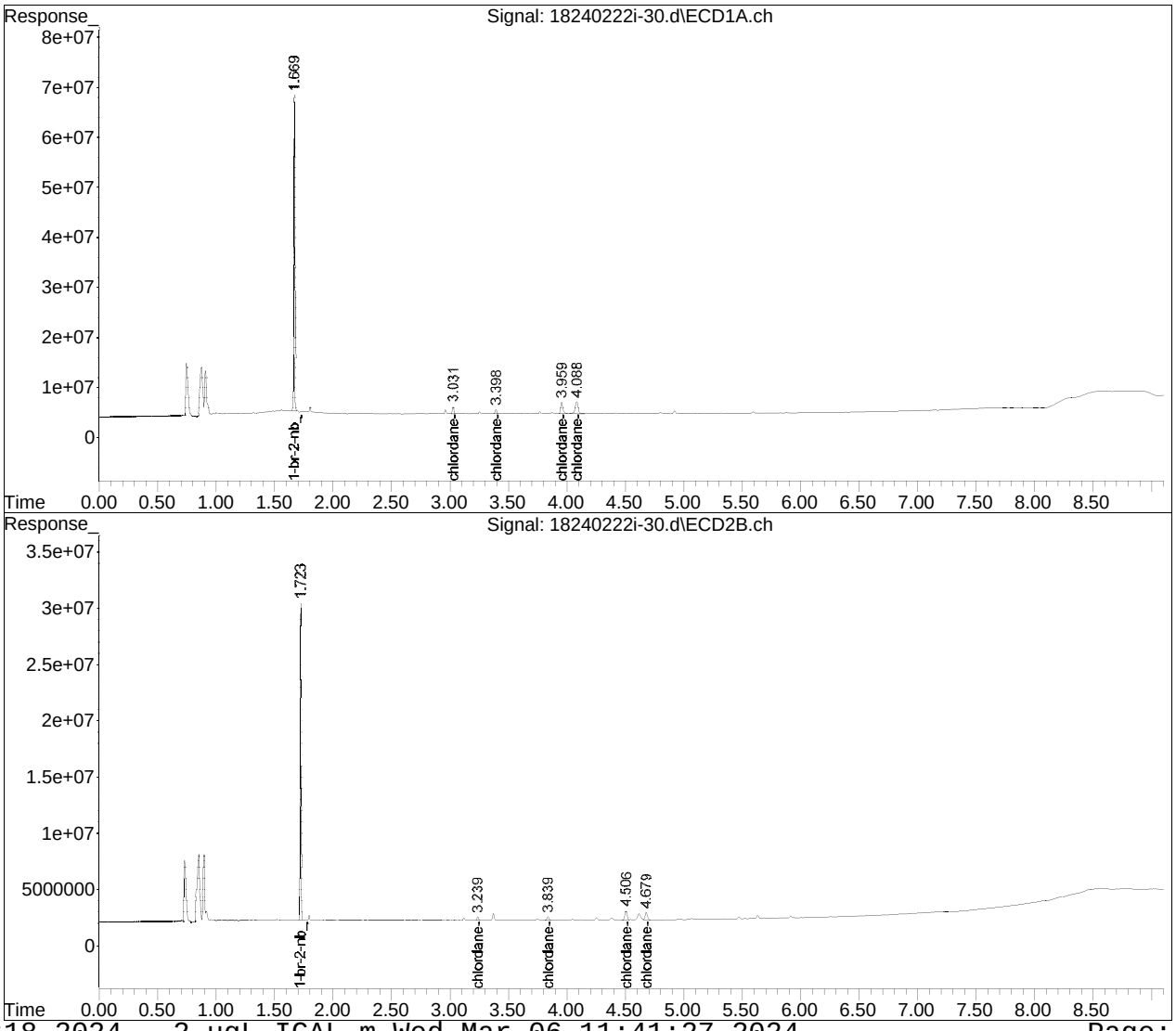
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:28 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:54:57 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:54:39 2024
Response via : Initial Calibration
Integrator: ChemStation

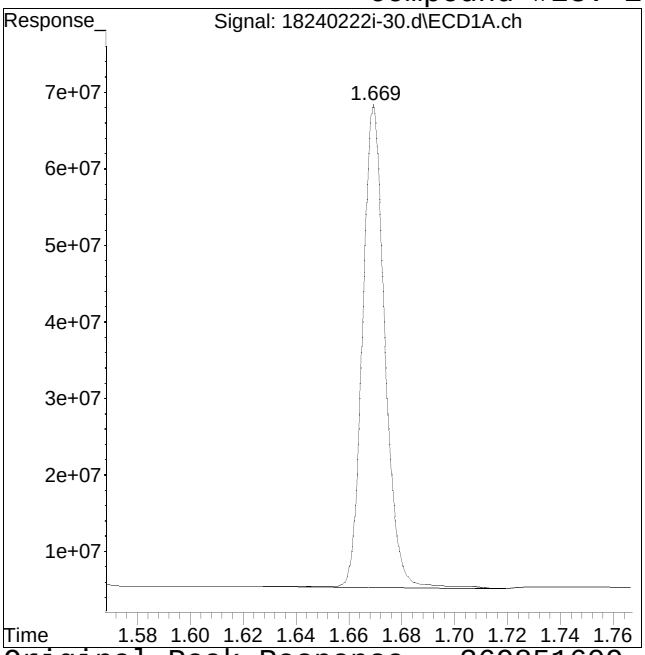
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

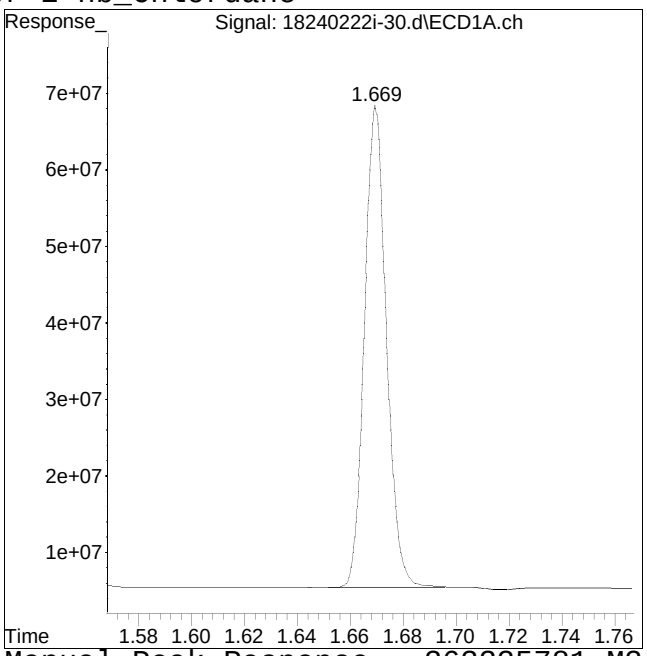


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-30.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:28 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 3/1/2024 8:54 am

Compound #28: 1-br-2-nb_Chlordane



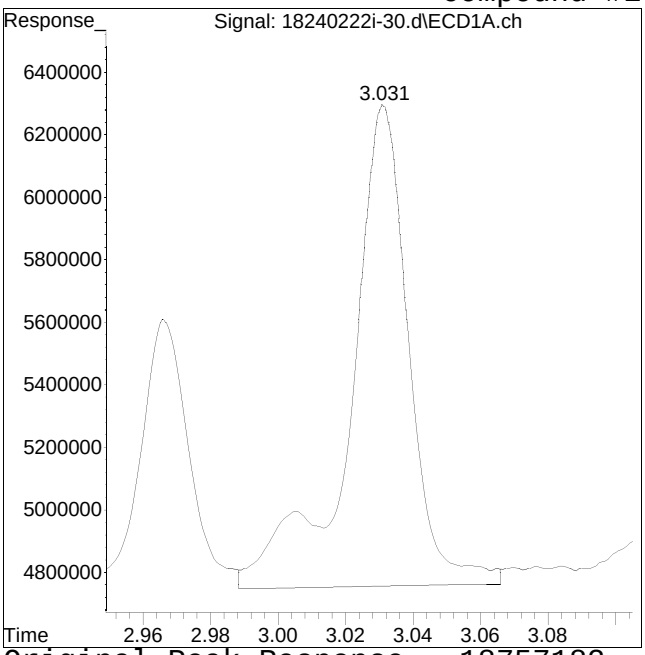


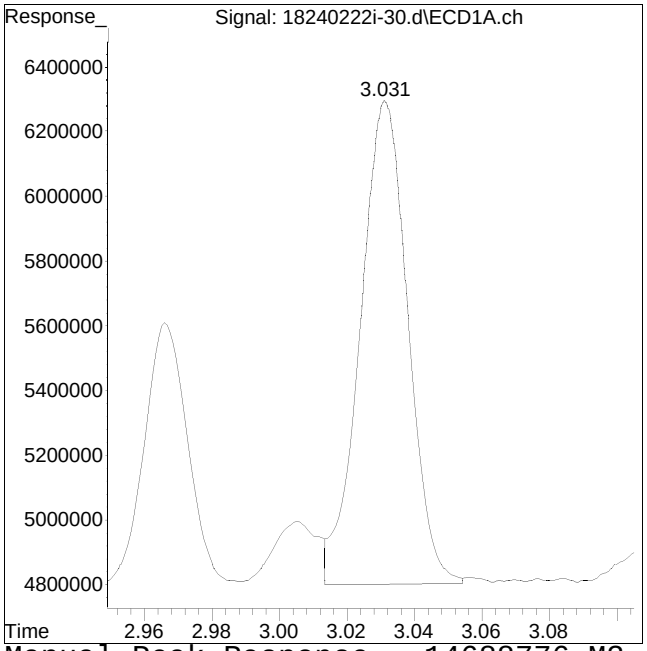
Original Peak Response = 369851609 Manual Peak Response = 363335781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-30.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:28 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 3/1/2024 8:54 am

Compound #29: chlordane-1



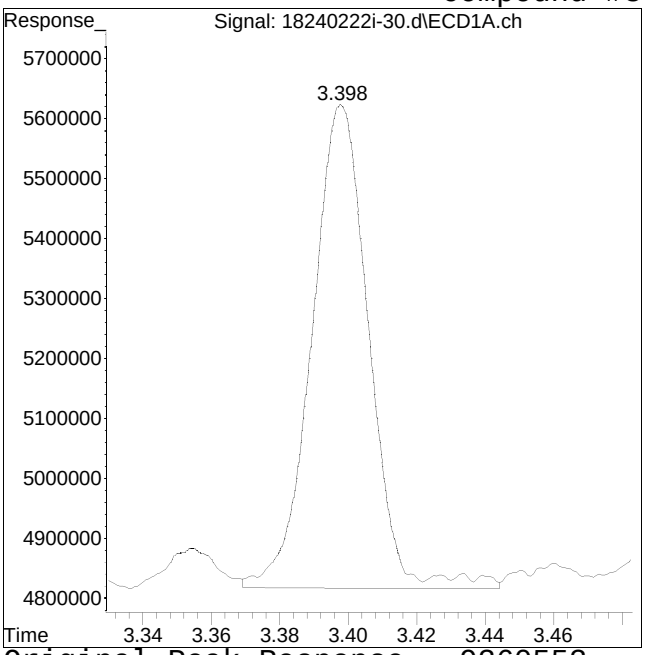


Original Peak Response = 18757182 Manual Peak Response = 14688776 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

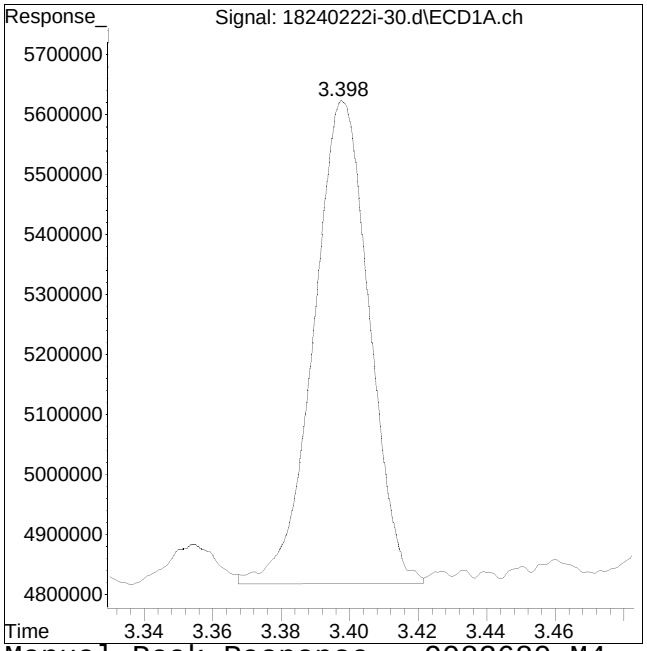
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-30.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:28 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 3/1/2024 8:54 am

Compound #30: chlordane-3



Original Peak Response = 9360553



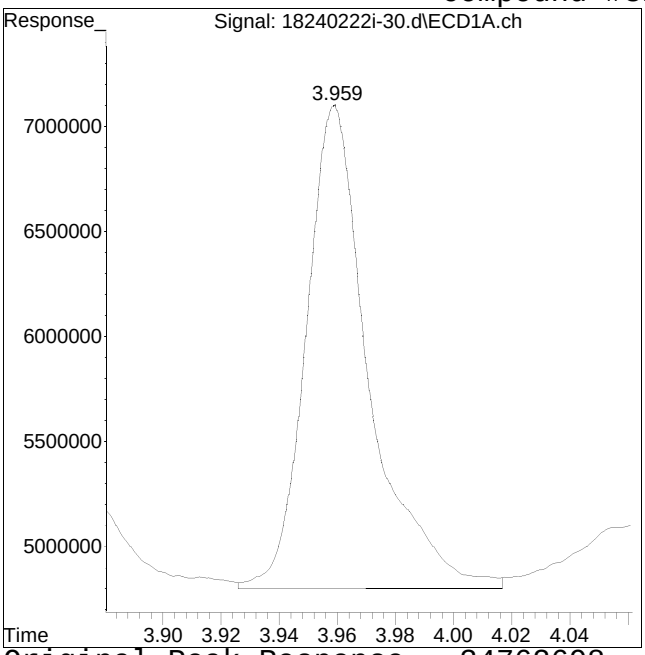
Manual Peak Response = 9083680 M4

M4 = Poor automated baseline construction.

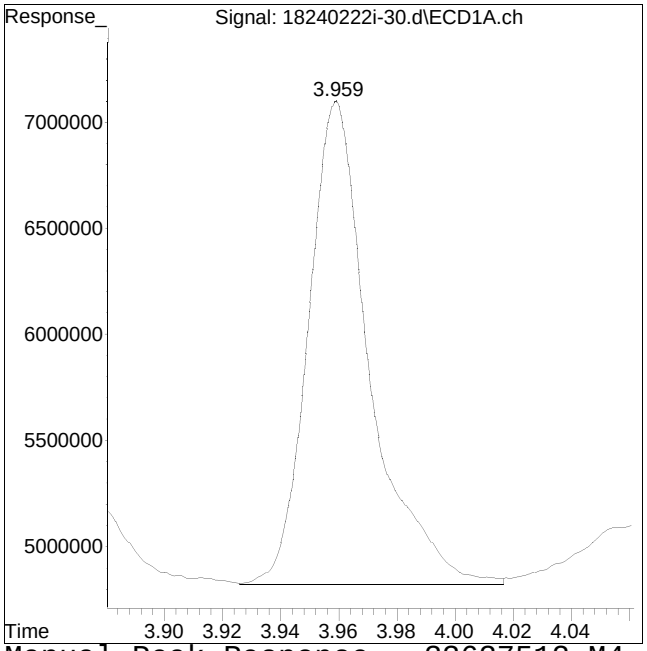
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-30.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:28 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 3/1/2024 8:54 am

Compound #31: chlordane-4



Original Peak Response = 34762698



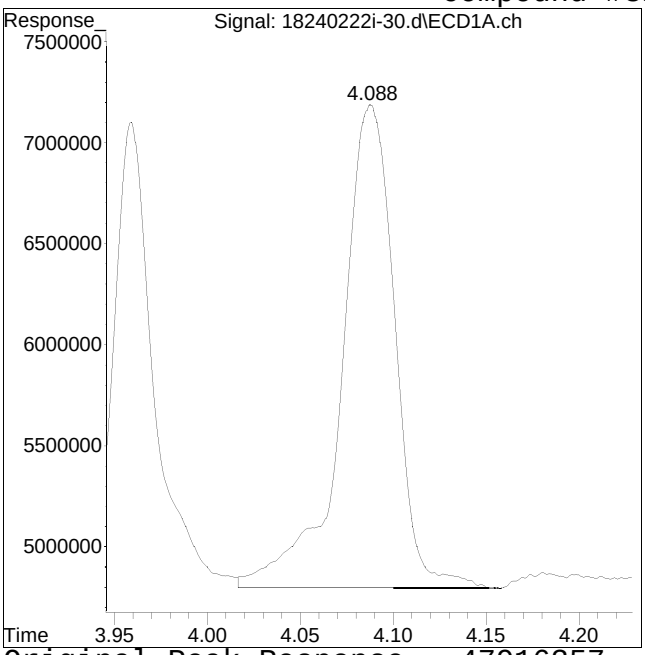
Manual Peak Response = 33637512 M4

M4 = Poor automated baseline construction.

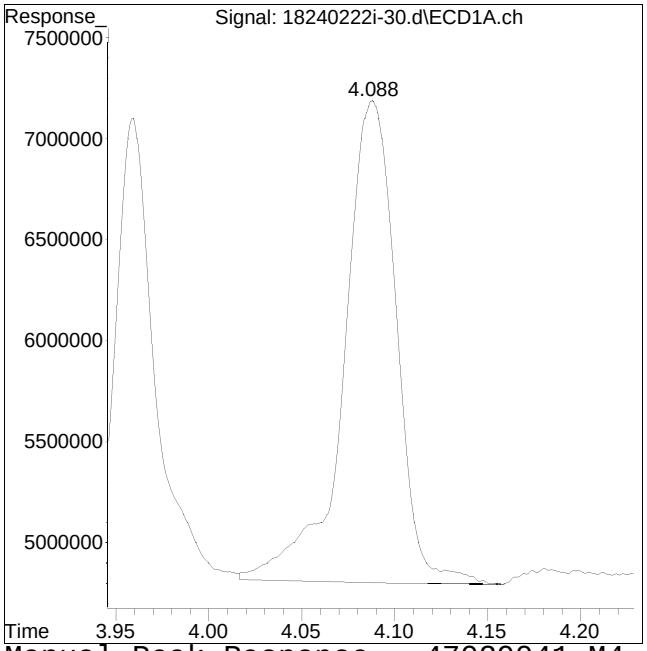
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-30.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:28 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 3/1/2024 8:54 am

Compound #32: chlordane-5



Original Peak Response = 47916357



Manual Peak Response = 47029041 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:40 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:53:51 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:53:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.669	1.723	358.8E6	154.3E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:40 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:53:51 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:53:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.030	3.239	25917948	5064011	27.871M4	25.159
30) l1	chlordane-3	3.397	3.838	15924775	6047759	28.363M3	27.388
31) l1	chlordane-4	3.958	4.505	52660537	19847340	26.975	24.936
32) l1	chlordane-5	4.087	4.678	80723142	15814741	26.772	25.039
Sum	chlordane-1			175.2E6	46773851	N.D.	N.D. D
Average	chlordane-1					27.495	25.630
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

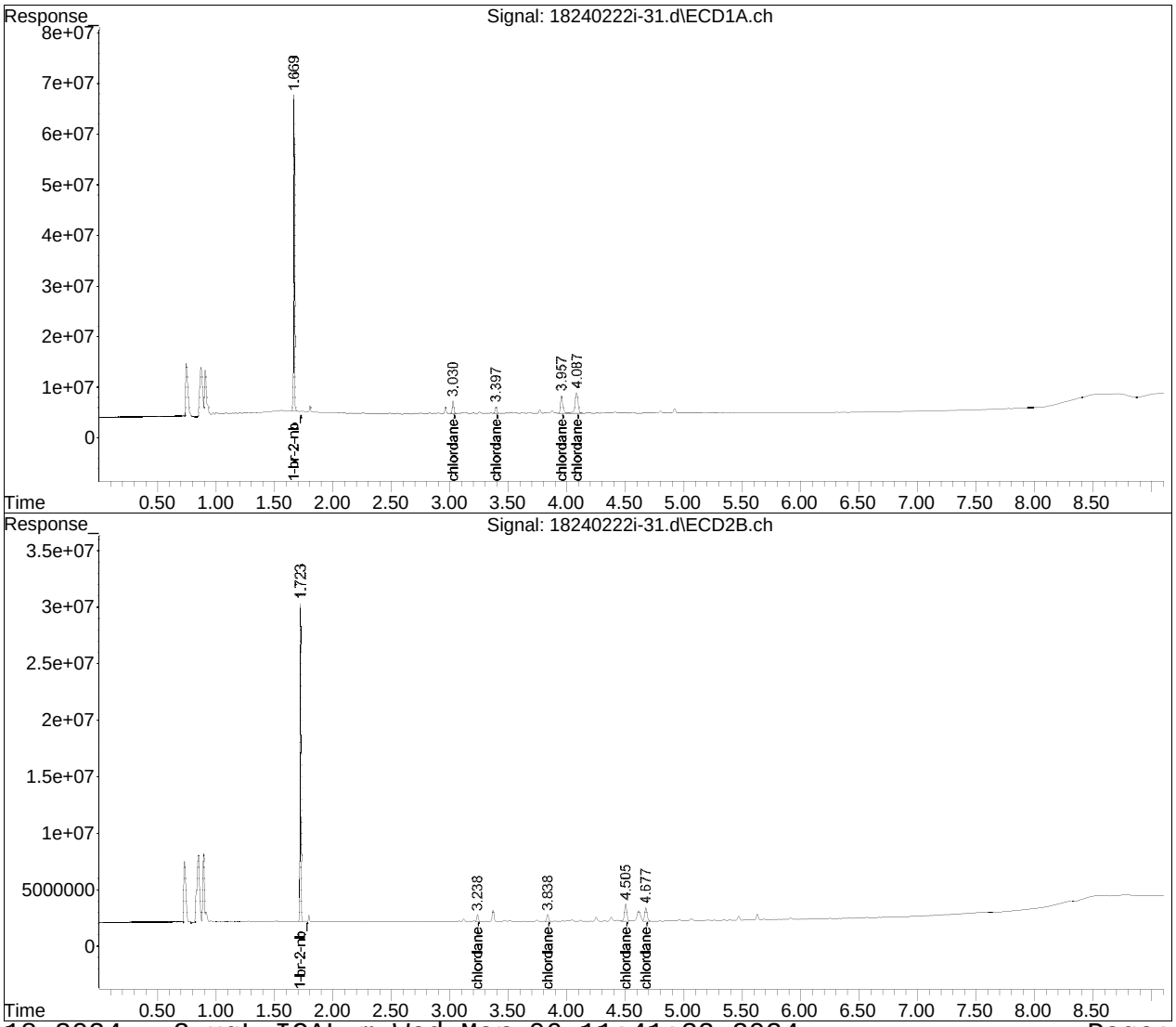
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:40 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:53:51 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:53:20 2024
Response via : Initial Calibration
Integrator: ChemStation

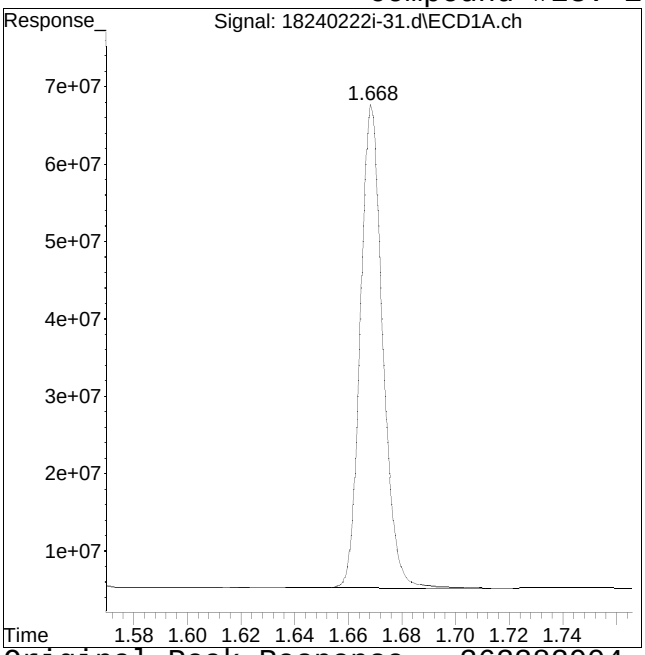
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

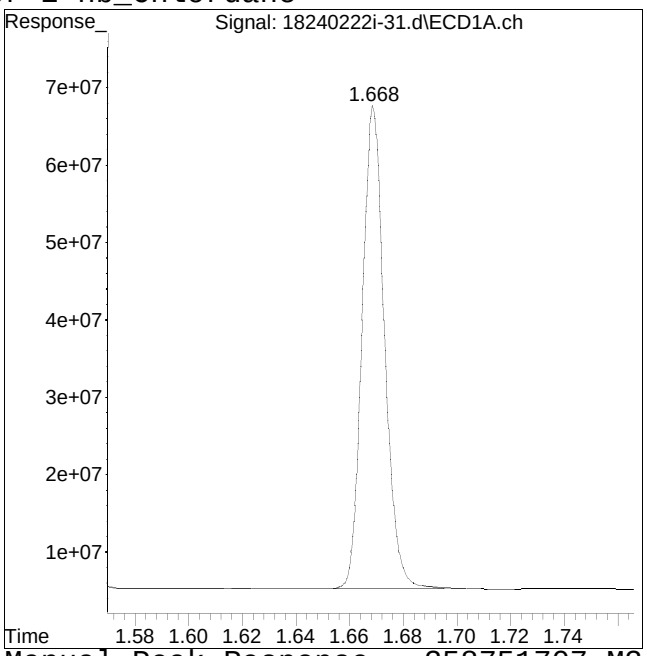


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-31.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:40 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 3/1/2024 8:53 am

Compound #28: 1-br-2-nb_Chlordane



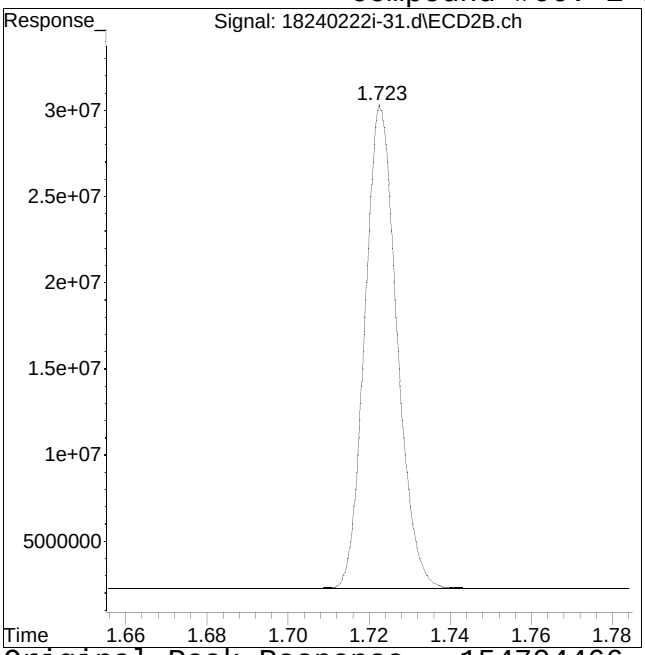


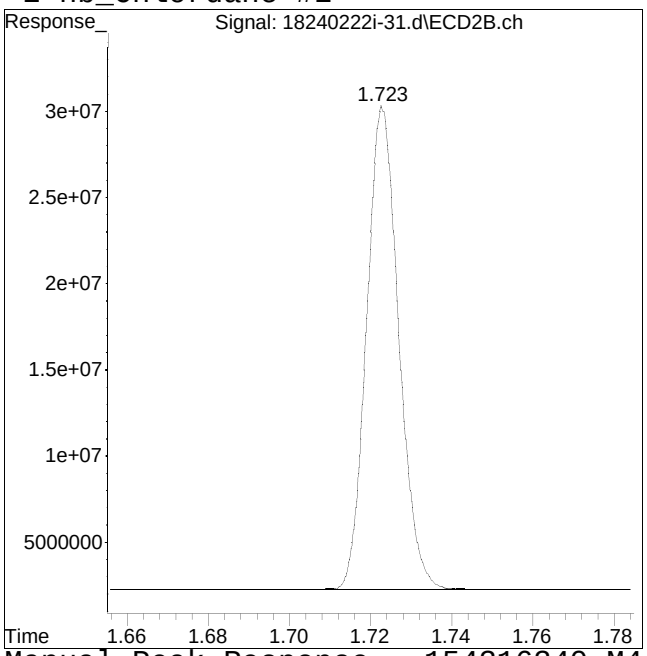
Original Peak Response = 363382904 Manual Peak Response = 358751707 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-31.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:40 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 3/1/2024 8:53 am

Compound #66: 1-br-2-nb_Chlordane #2



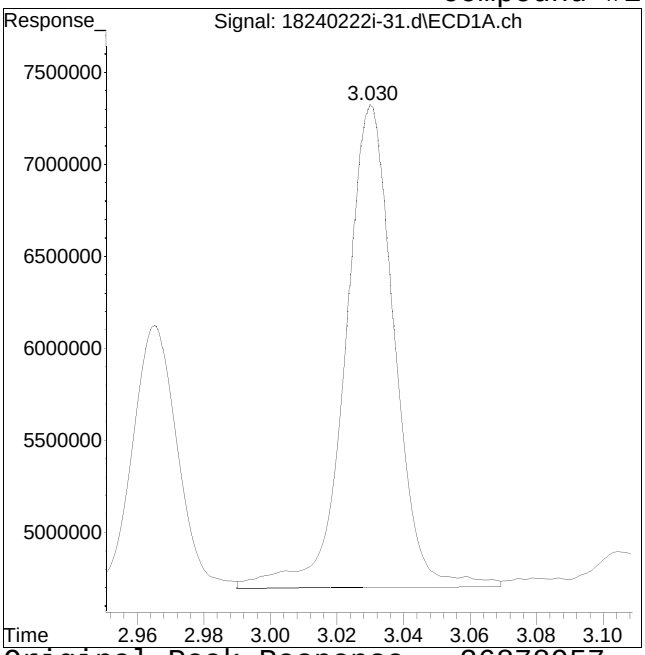


Original Peak Response = 154704466 Manual Peak Response = 154316340 M4
M4 = Poor automated baseline construction.

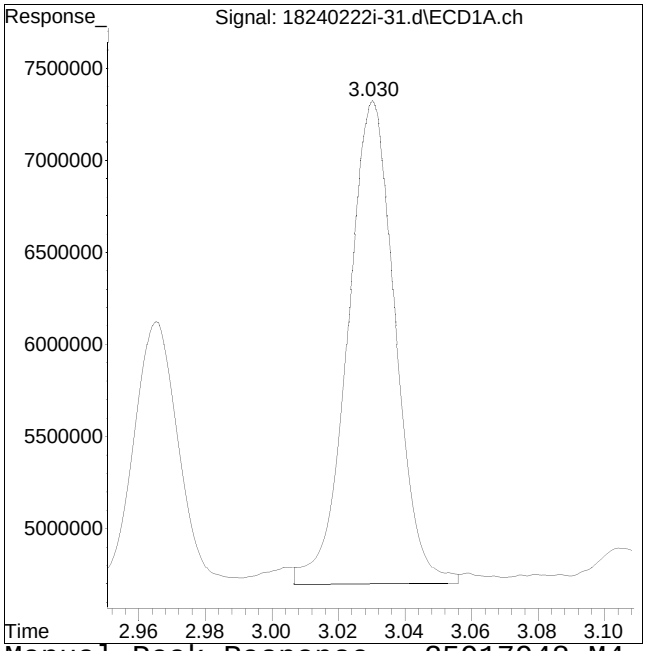
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-31.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:40 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 3/1/2024 8:53 am

Compound #29: chlordane-1



Original Peak Response = 26878957



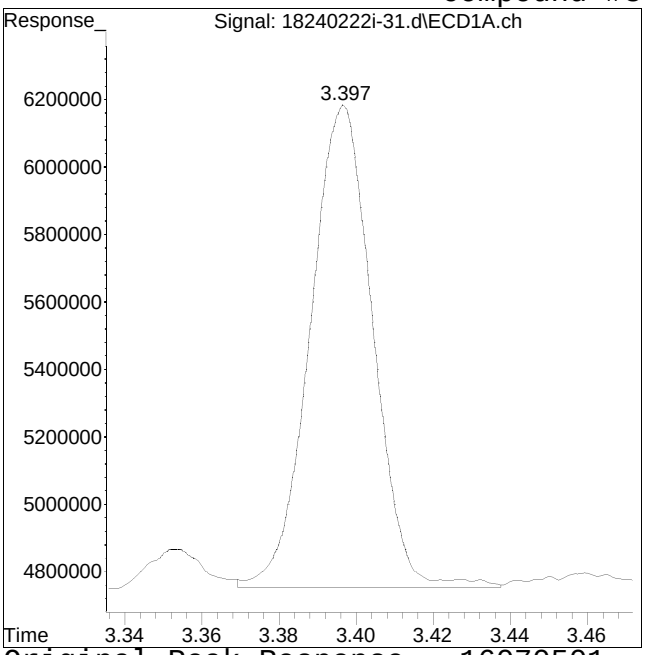
Manual Peak Response = 25917948 M4

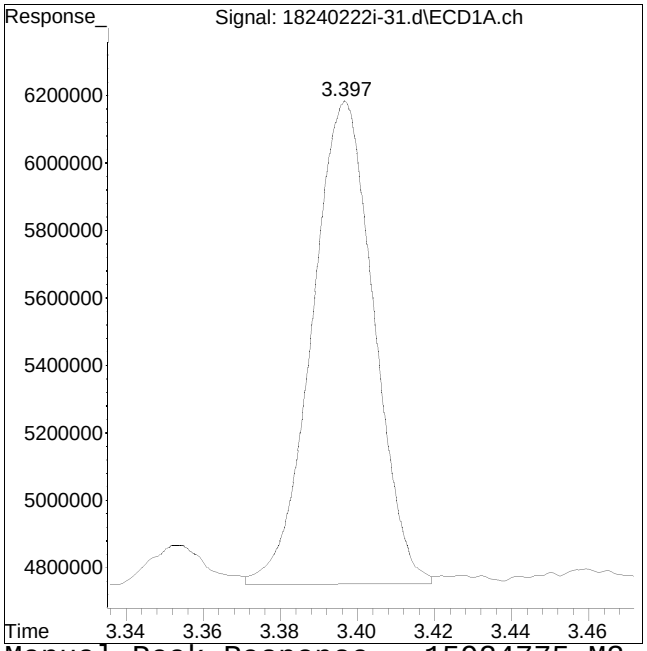
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-31.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:40 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 3/1/2024 8:53 am

Compound #30: chlordane-3





Original Peak Response = 16070501 Manual Peak Response = 15924775 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:51 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:52:06 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:51:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.668	1.722	355.6E6	152.8E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:51 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:52:06 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:51:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.031	3.239	110.2E6	22682208	125.781	117.868
30) l1	chlordane-3	3.397	3.839	70612017	26845088	136.035M3	130.181
31) l1	chlordane-4	3.958	4.505	223.2E6	87370141	119.943	113.949
32) l1	chlordane-5	4.086	4.678	344.3E6	70150043	119.756	115.680
Sum	chlordane-1			748.3E6	207.0E6	N.D.	N.D. D
Average	chlordane-1					125.378	119.420
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

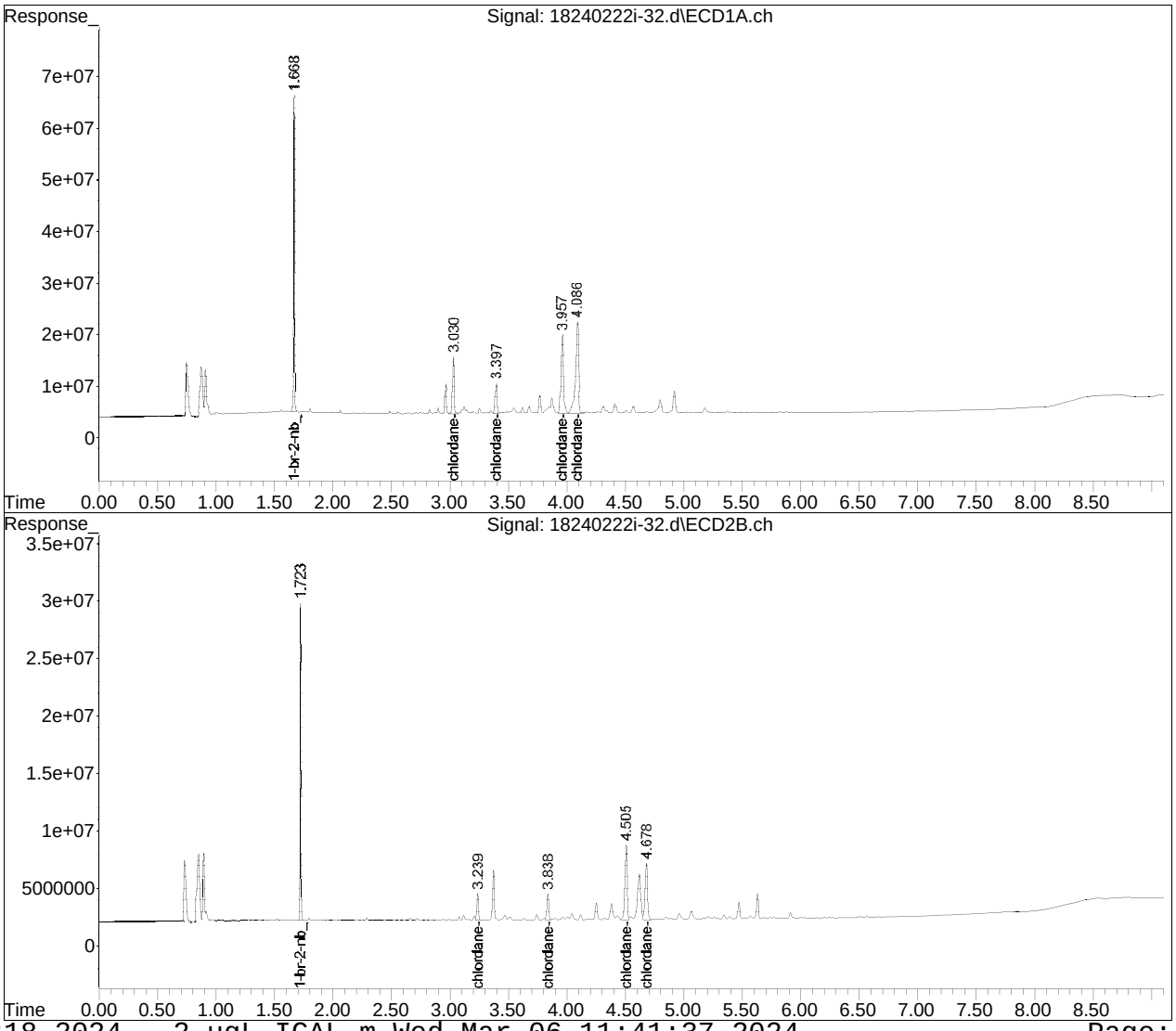
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 4:51 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:52:06 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:51:31 2024
Response via : Initial Calibration
Integrator: ChemStation

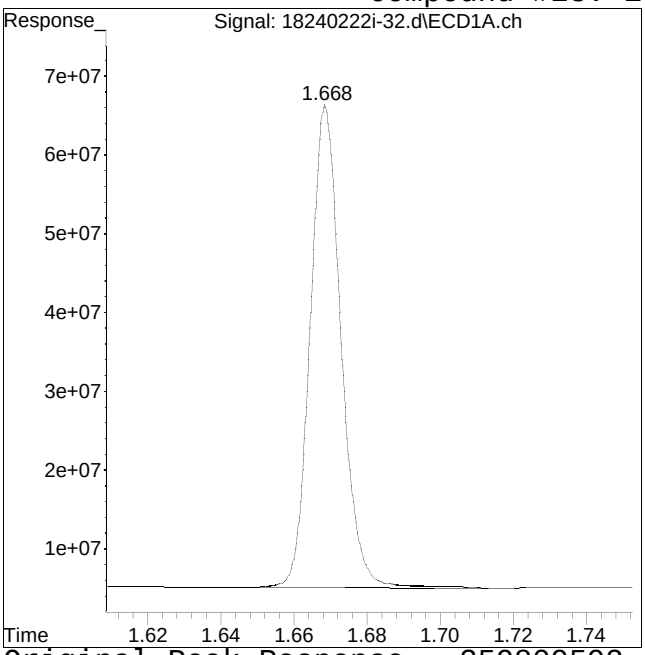
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

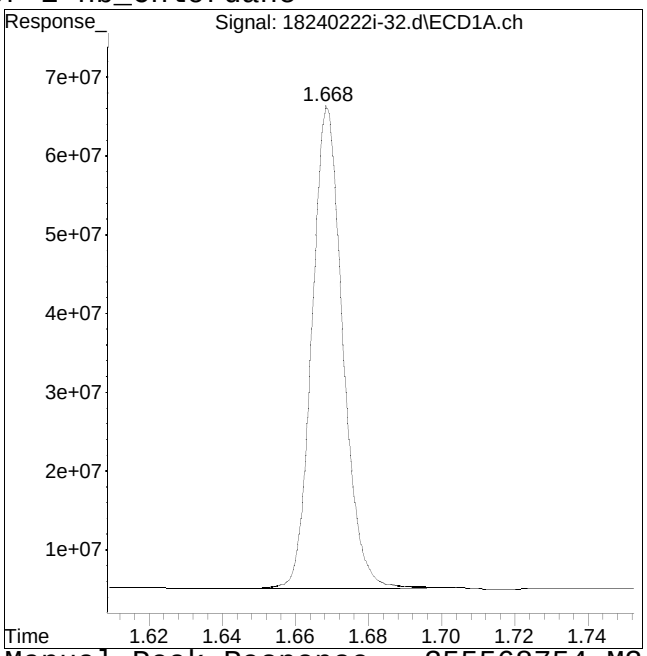


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-32.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:51 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 3/1/2024 8:51 am

Compound #28: 1-br-2-nb_Chlordane



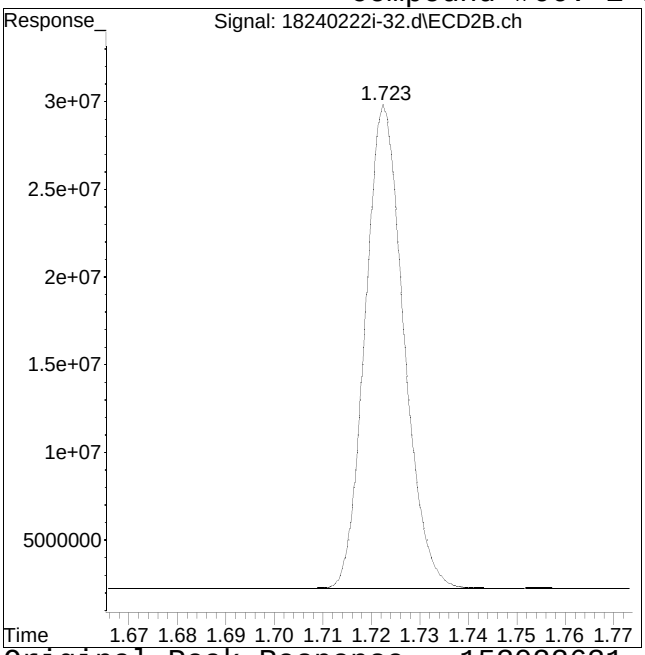


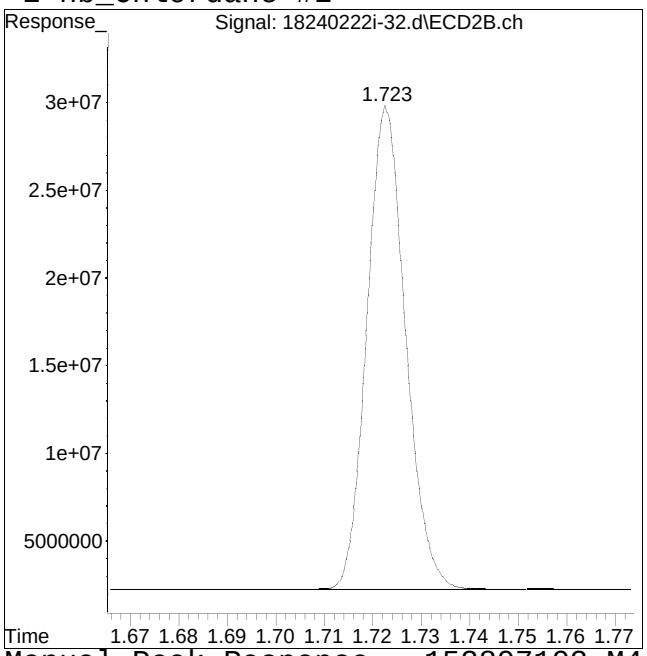
Original Peak Response = 359809592 Manual Peak Response = 355568754 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-32.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:51 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 3/1/2024 8:51 am

Compound #66: 1-br-2-nb_Chlordane #2



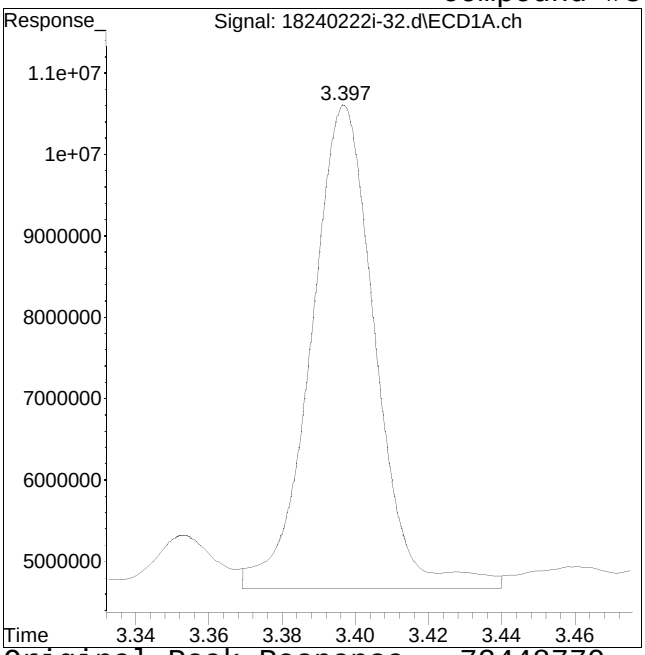


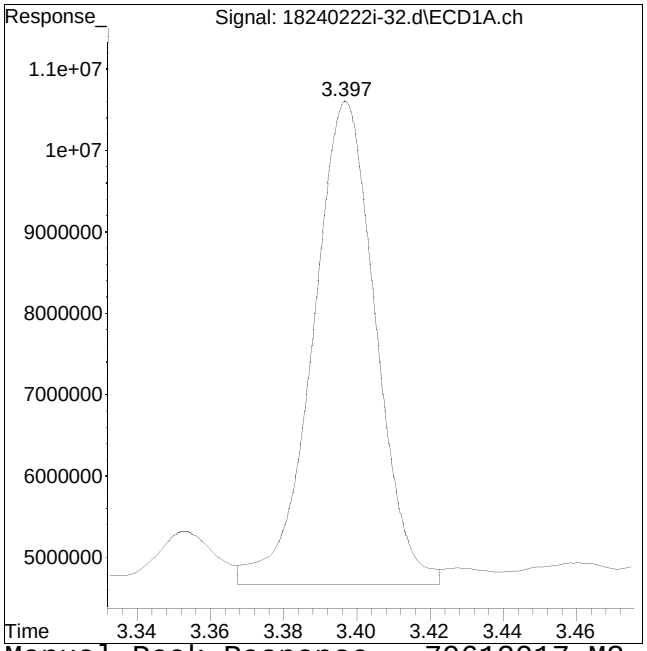
Original Peak Response = 153022631 Manual Peak Response = 152807102 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-32.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 4:51 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 3/1/2024 8:51 am

Compound #30: chlordane-3





Original Peak Response = 72448770 Manual Peak Response = 70612017 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:03 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:50:49 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:49:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.668	1.723	367.9E6	158.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:03 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:50:49 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:49:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.030	3.238	517.8E6	111.0E6	599.286	575.299
30) l1	chlordane-3	3.396	3.838	314.7E6	123.9E6	621.466M3	608.984
31) l1	chlordane-4	3.957	4.505	1082.4E6	445.6E6	586.457	581.500
32) l1	chlordane-5	4.085	4.678	1677.2E6	352.2E6	588.833	581.005
Sum	chlordane-1			3592.1E6	1032.5E6	N.D.	N.D. D
Average	chlordane-1					599.011	586.697
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

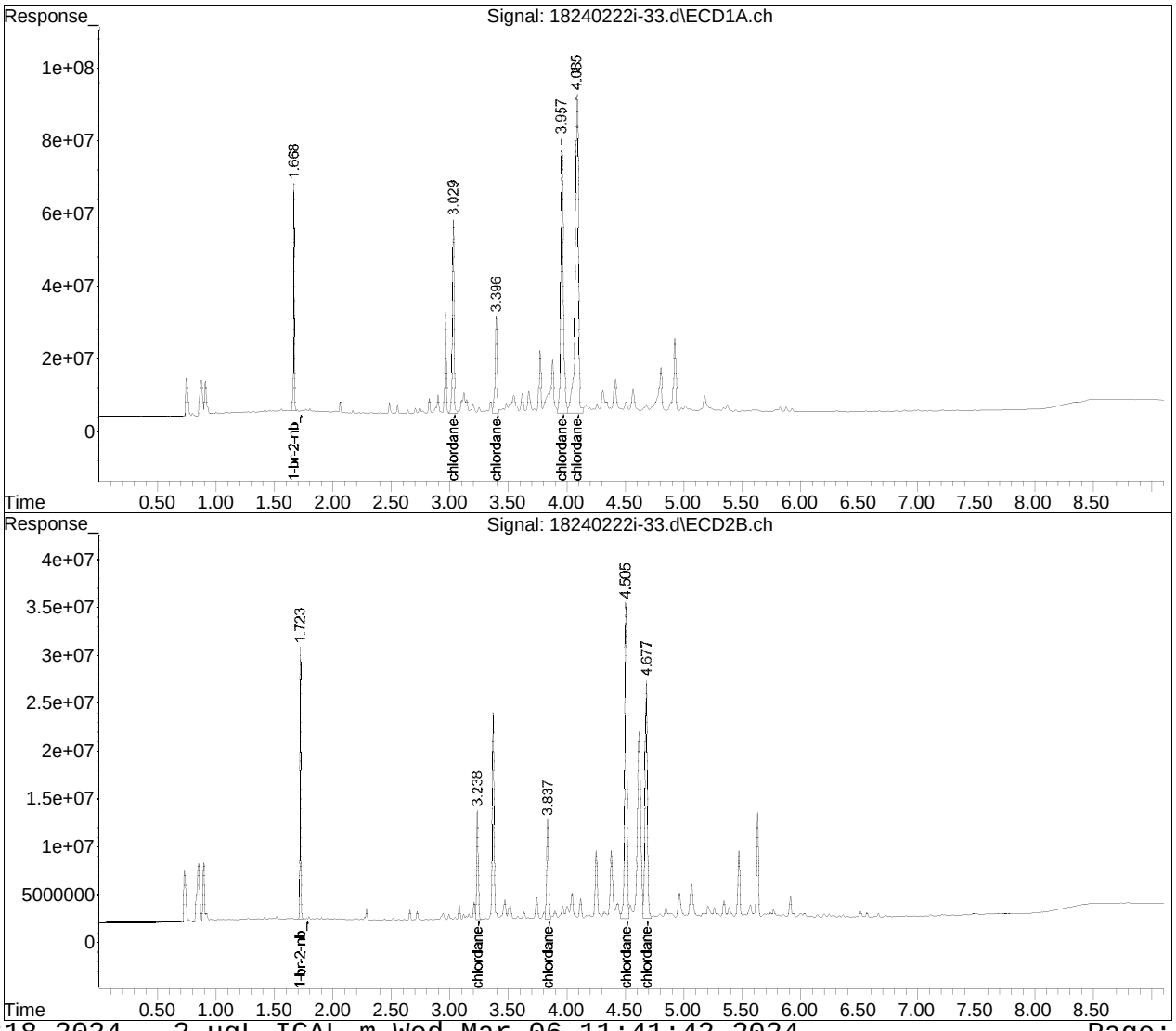
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:03 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:50:49 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:49:23 2024
Response via : Initial Calibration
Integrator: ChemStation

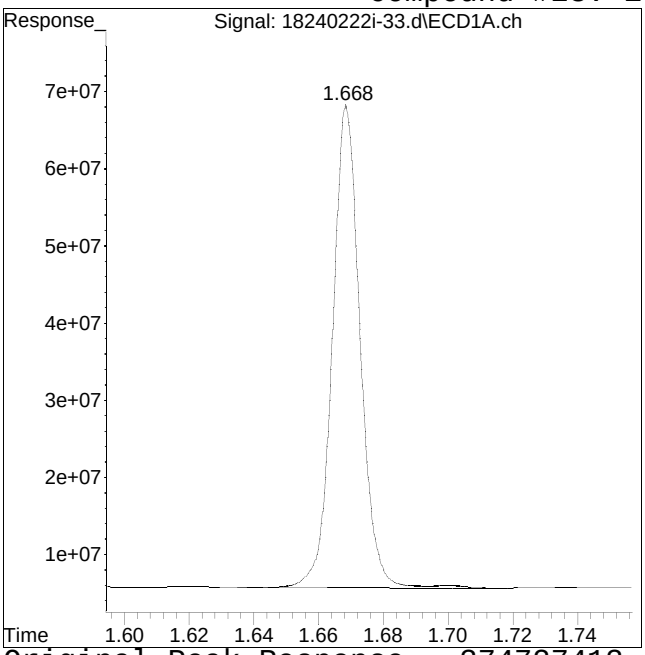
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

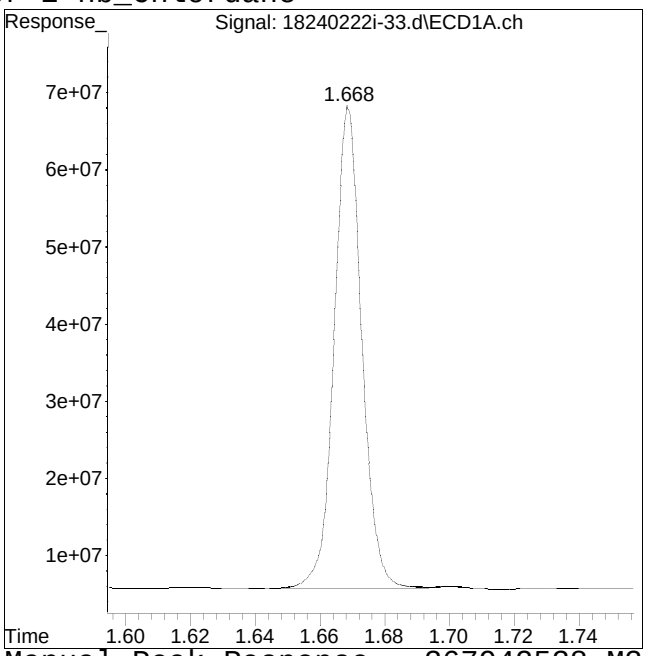


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-33.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 5:03 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 3/1/2024 8:50 am

Compound #28: 1-br-2-nb_Chlordane



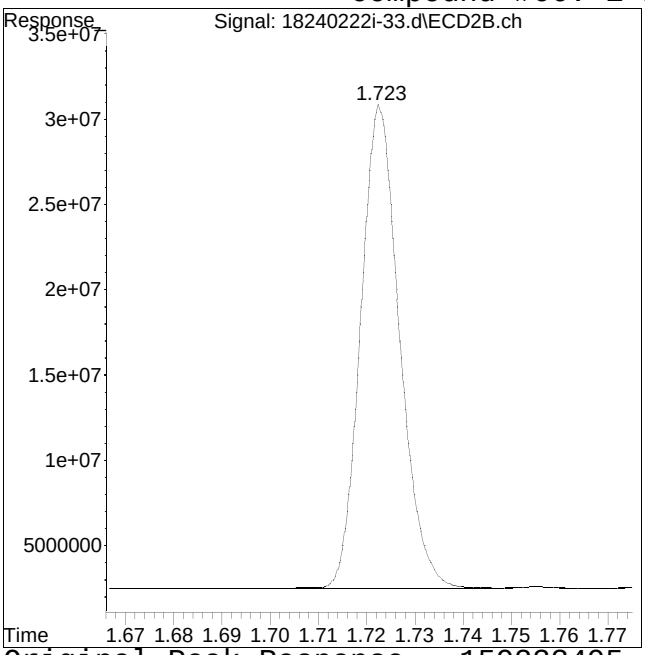


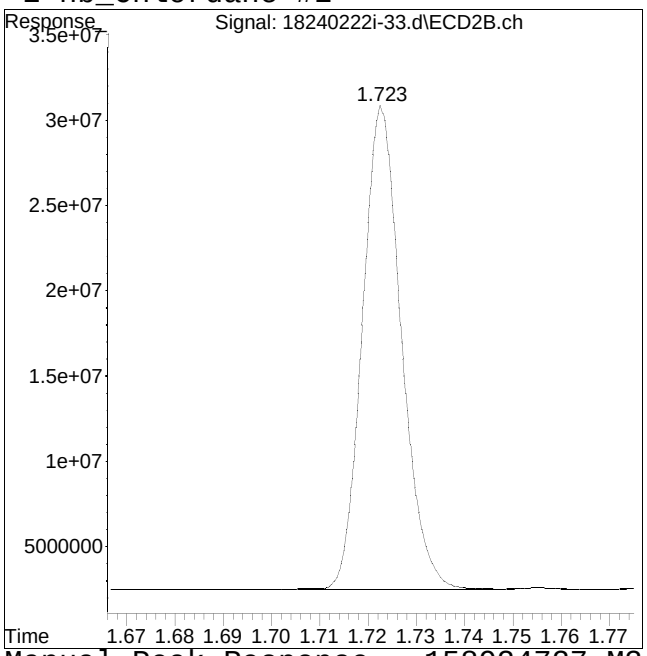
Original Peak Response = 374727413 Manual Peak Response = 367942538 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-33.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 5:03 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 3/1/2024 8:50 am

Compound #66: 1-br-2-nb_Chlordane #2



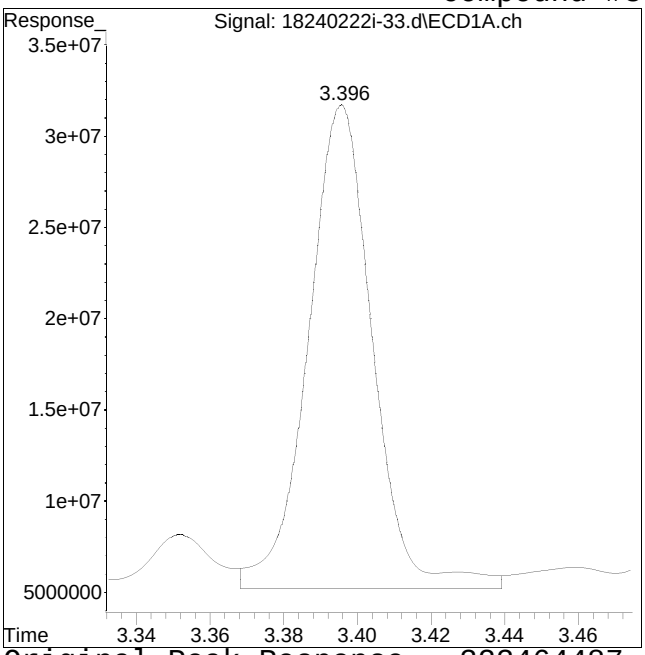


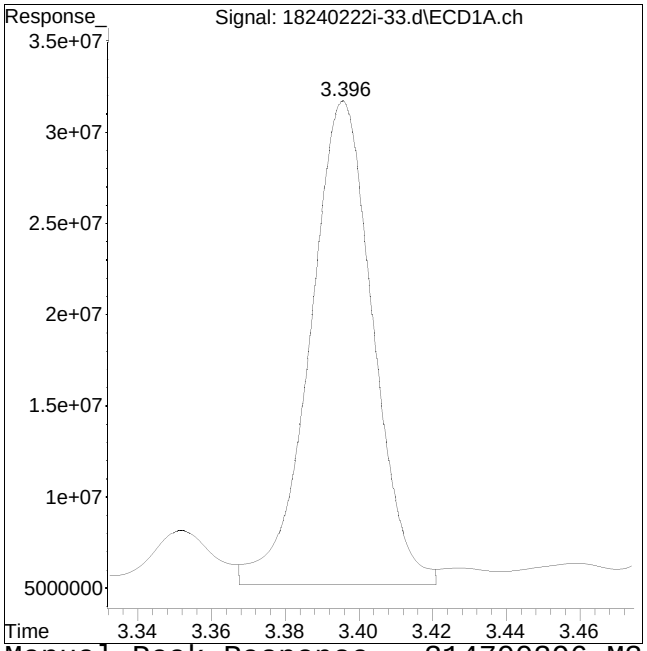
Original Peak Response = 159233495 Manual Peak Response = 158924727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-33.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 5:03 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 3/1/2024 8:50 am

Compound #30: chlordane-3





Original Peak Response = 323464487 Manual Peak Response = 314700396 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:14 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:46:17 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:56:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.669	1.723	378.8E6	162.9E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:14 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:46:17 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:56:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.030	3.239	983.7E6	215.3E6	559.391	482.578
30) l1	chlordane-3	3.396	3.838	580.8E6	233.2E6	524.745M3	531.856
31) l1	chlordane-4	3.957	4.506	2071.0E6	859.1E6	531.756	536.956
32) l1	chlordane-5	4.086	4.678	3199.6E6	681.2E6	536.356	529.479
Sum	chlordane-1			6835.1E6	1988.8E6	N.D.	N.D. D
Average	chlordane-1					538.062	520.217
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

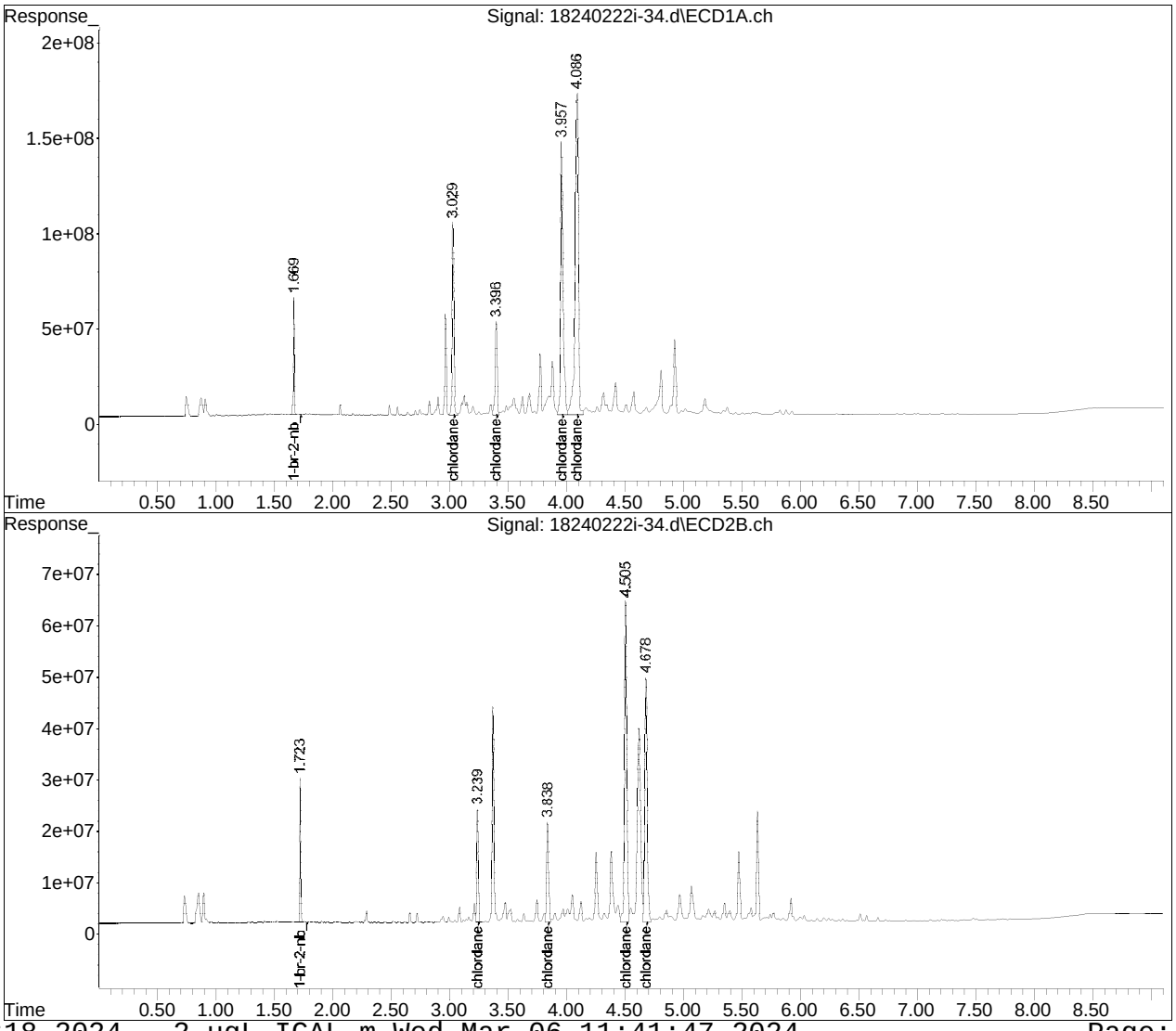
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:14 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:46:17 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Feb 27 15:56:15 2024
Response via : Initial Calibration
Integrator: ChemStation

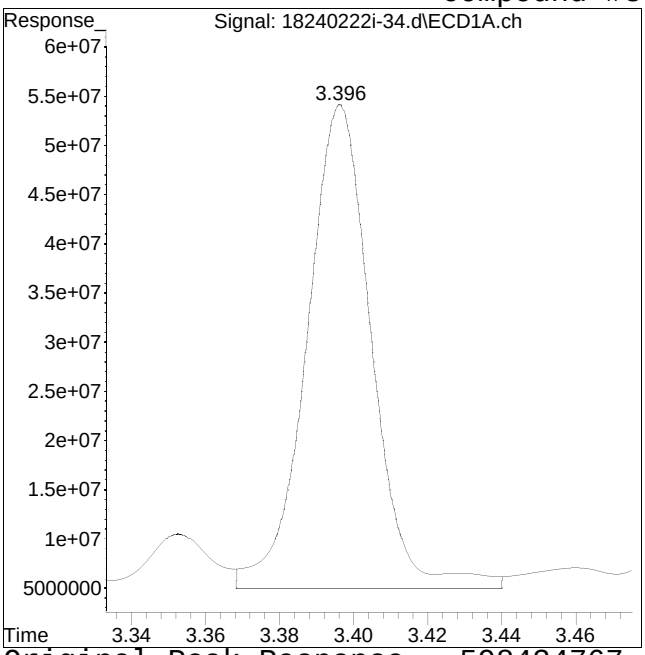
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

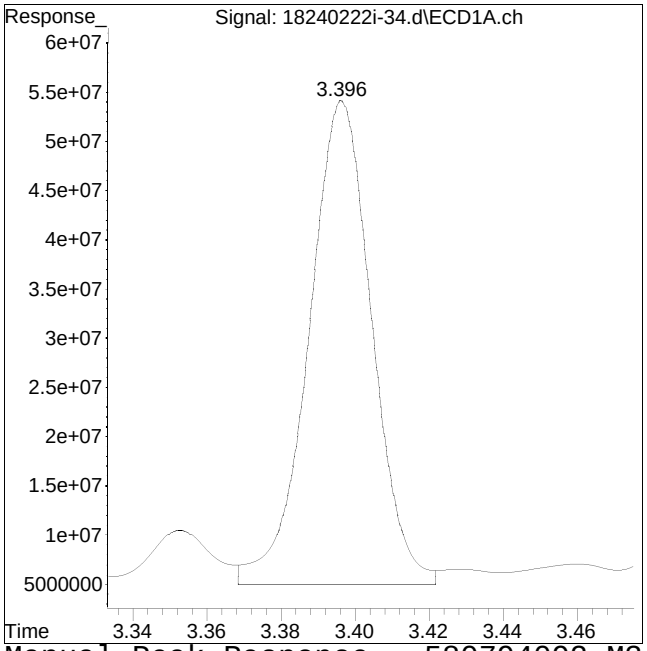


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-34.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 5:14 pm Instrument : Pest 18
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 3/1/2024 8:46 am

Compound #30: chlordane-3





Original Peak Response = 598434767 Manual Peak Response = 580794092 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:25 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:47:33 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:47:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.668	1.723	384.7E6	166.5E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:25 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:47:33 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:47:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.029	3.238	1935.0E6	428.4E6	1936.686	1947.700
30) l1	chlordane-3	3.395	3.838	1131.9E6	451.9E6	1918.970M3	1896.906
31) l1	chlordane-4	3.956	4.505	4126.6E6	1703.8E6	1961.918	1941.213
32) l1	chlordane-5	4.085	4.678	6369.3E6	1346.8E6	1960.064	1935.311
Sum	chlordane-1			13562.9E6	3930.9E6	N.D.	N.D. D
Average	chlordane-1					1944.409	1930.283
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

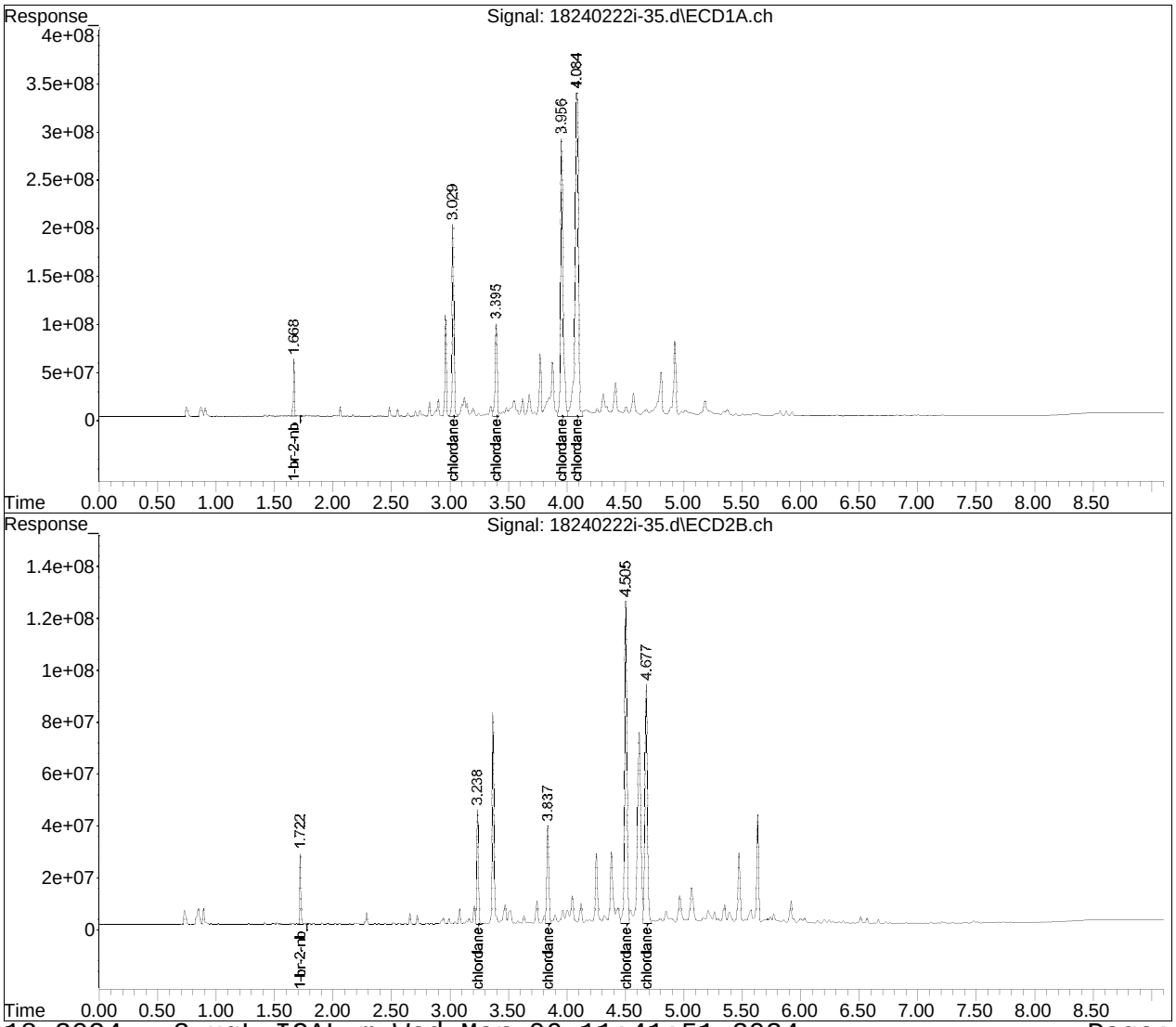
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 5:25 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 08:47:33 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 08:47:26 2024
Response via : Initial Calibration
Integrator: ChemStation

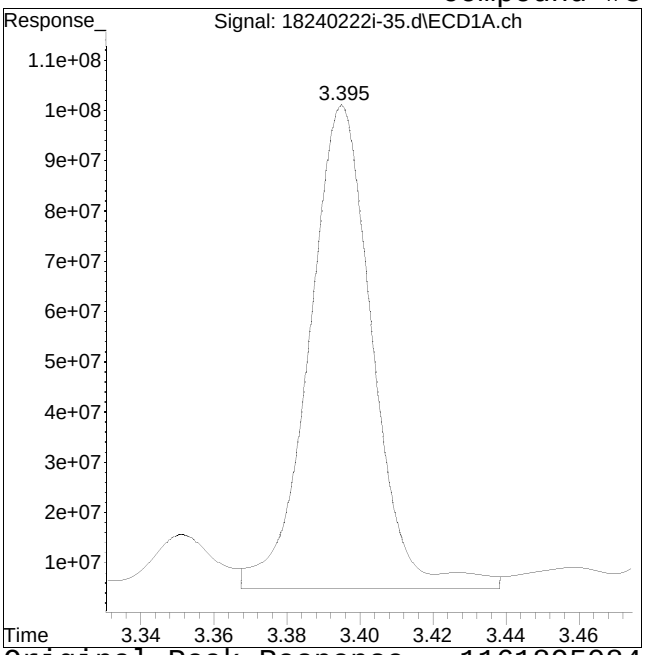
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

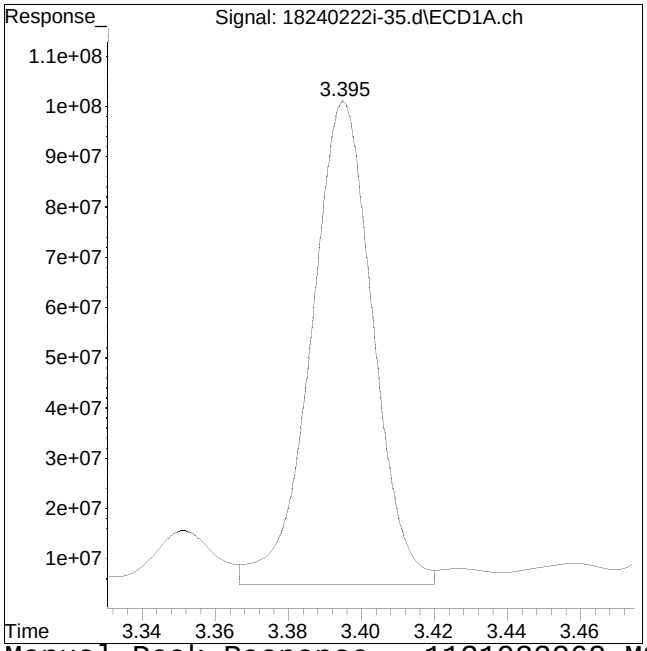


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-35.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 5:25 pm Instrument : Pest 18
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 3/1/2024 8:47 am

Compound #30: chlordane-3





Original Peak Response = 1161895084 Manual Peak Response = 1131933262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-42.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 6:45 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:05:03 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:02:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.668	1.723	363.1E6	151.2E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-42.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 6:45 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:05:03 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:02:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.987	5.549	2689.0E6	632.1E6	2345.931M3	2432.926
35) l2	toxaphene-2	5.117	5.576	2994.5E6	951.9E6	2444.831M3	2420.451
36) l2	toxaphene-3	5.355	5.912	2924.3E6	1127.4E6	2427.504	2418.653
37) l2	toxaphene-4	5.741	6.333	2609.3E6	1022.2E6	2407.275	2421.388
Sum	toxaphene-1			11217.1E6	3733.6E6	9625.541	9693.418
Average	toxaphene-1					2406.385	2423.354

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			11217.1E6	3733.6E6	9625.541	9693.418
Average	toxaphene-1					2406.385	2423.354

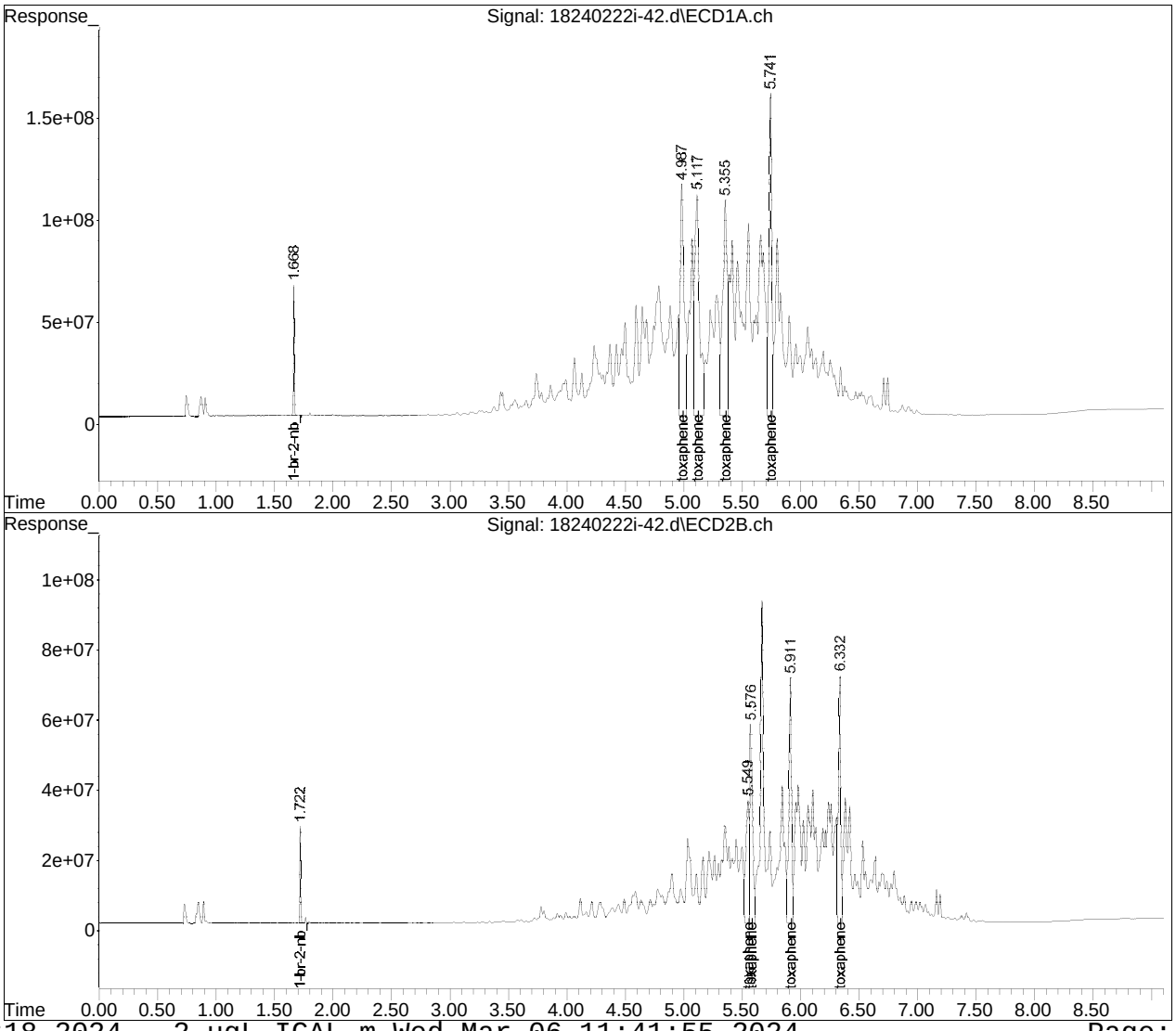
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-42.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Feb 2024 6:45 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 01 09:05:03 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Fri Mar 01 09:02:41 2024
Response via : Initial Calibration
Integrator: ChemStation

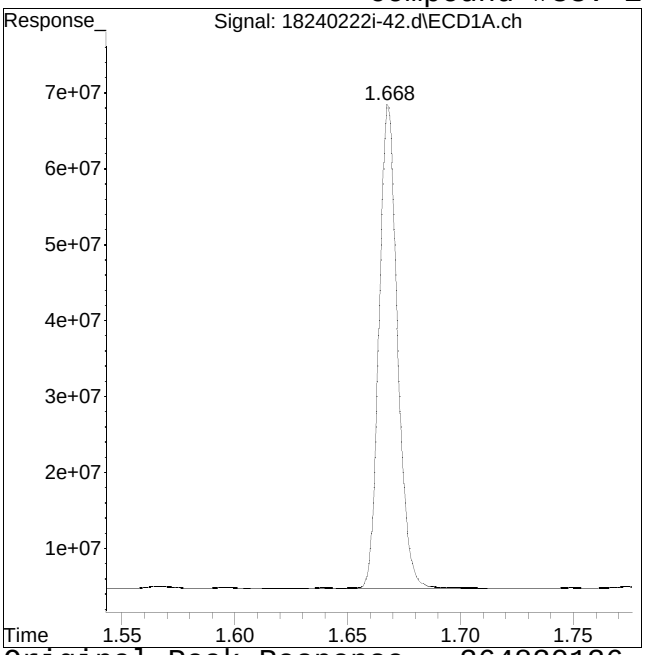
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

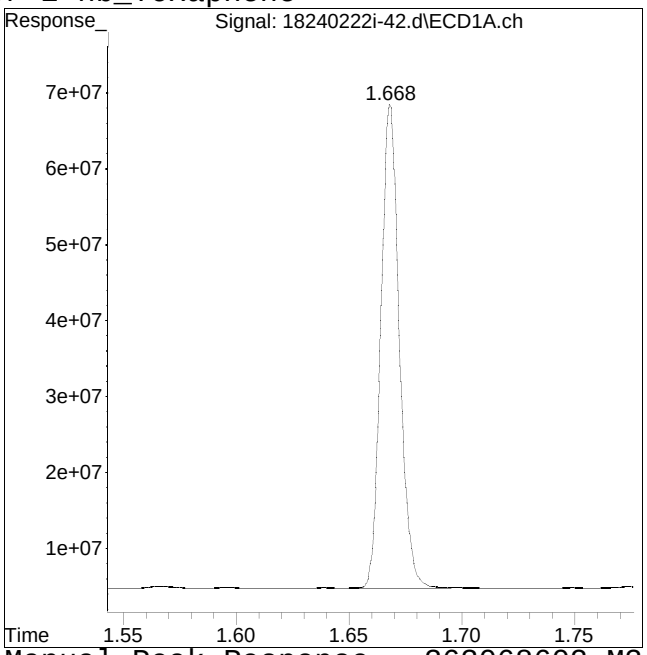


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-42.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 6:45 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 3/1/2024 9:02 am

Compound #33: 1-br-2-nb_Toxaphene



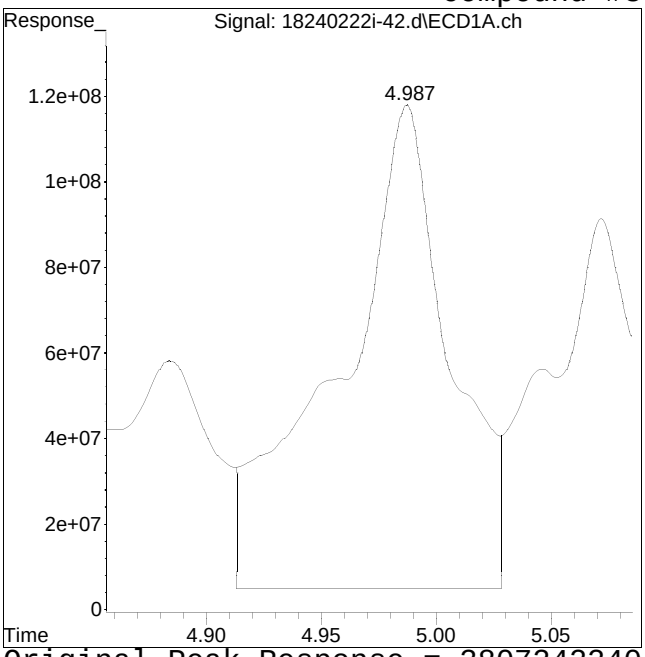


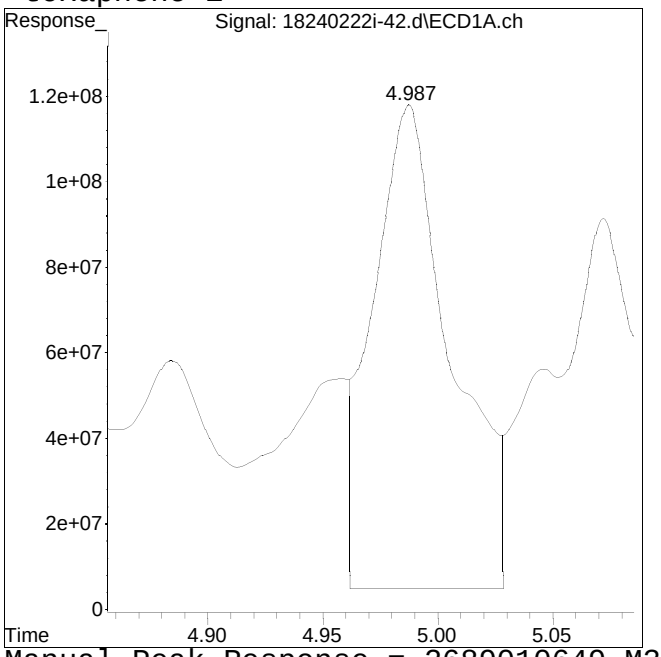
Original Peak Response = 364830136 Manual Peak Response = 363068602 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-42.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 6:45 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 3/1/2024 9:02 am

Compound #34: toxaphene-1



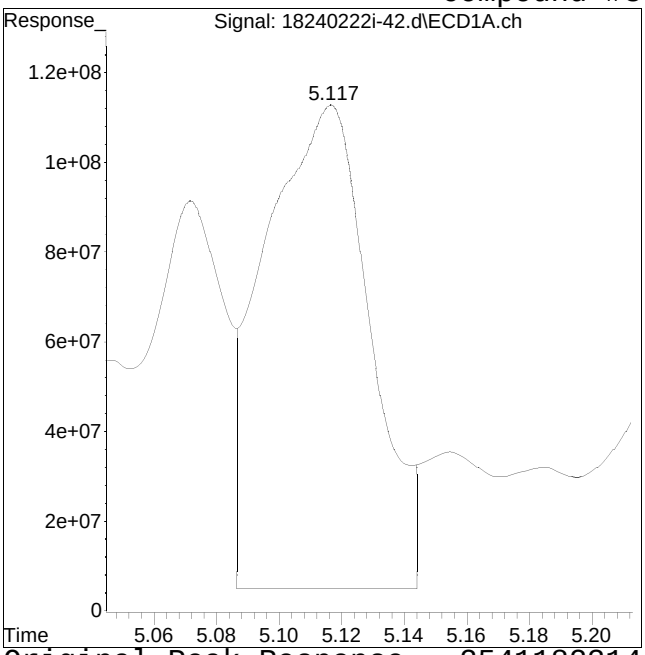


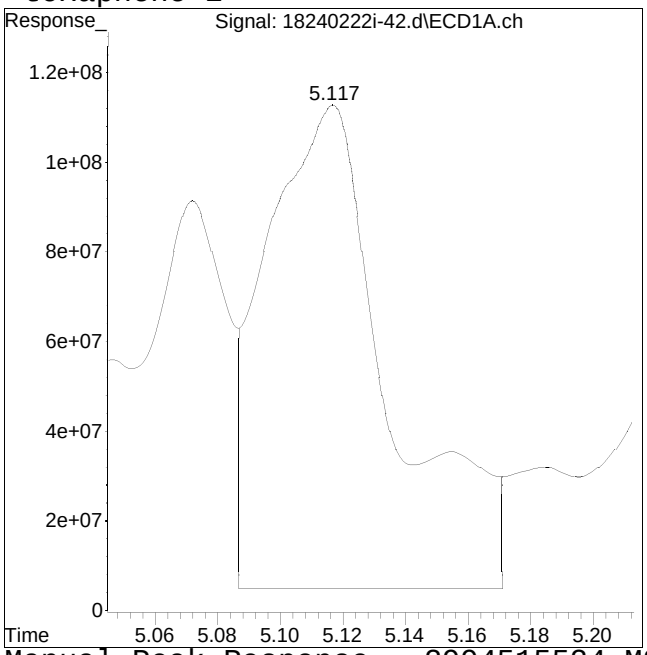
Original Peak Response = 3807242240 Manual Peak Response = 2689010649 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-42.d Operator : PEST18:ejl
Date Inj'd : 2/29/2024 6:45 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 3/1/2024 9:02 am

Compound #35: toxaphene-2





Original Peak Response = 2541182314 Manual Peak Response = 2994515524 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-45.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 11:52 am
Operator : PEST18:ejl
Sample : pem18240222i-03,42e,,pp 11372 -- (Sig #1); pem-03,42e,,pp 11372 -- (Sig #2)
Misc : WG1892874,ical
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:17:32 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.671	1.724	404.3E6	174.0E6	25.000M3	25.000M3
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.202	4.903	1067858	467527	0.065M3	0.067
18)	Endrin	4.749	5.379	829.5E6	347.1E6	48.476M4	50.954
19)	4,4'-DDD	4.875	5.523	5308063	2223752	0.392M4	0.383
21)	4,4'-DDT	5.181	5.814	1479.0E6	677.2E6	99.996M4	101.478
22)	Endrin Aldeh	5.439	5.905	2595484	909087	N.D. M4	N.D. M4
26)	Endrin Keton	6.075	6.564	6752935	2892462	0.415M4	0.412
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

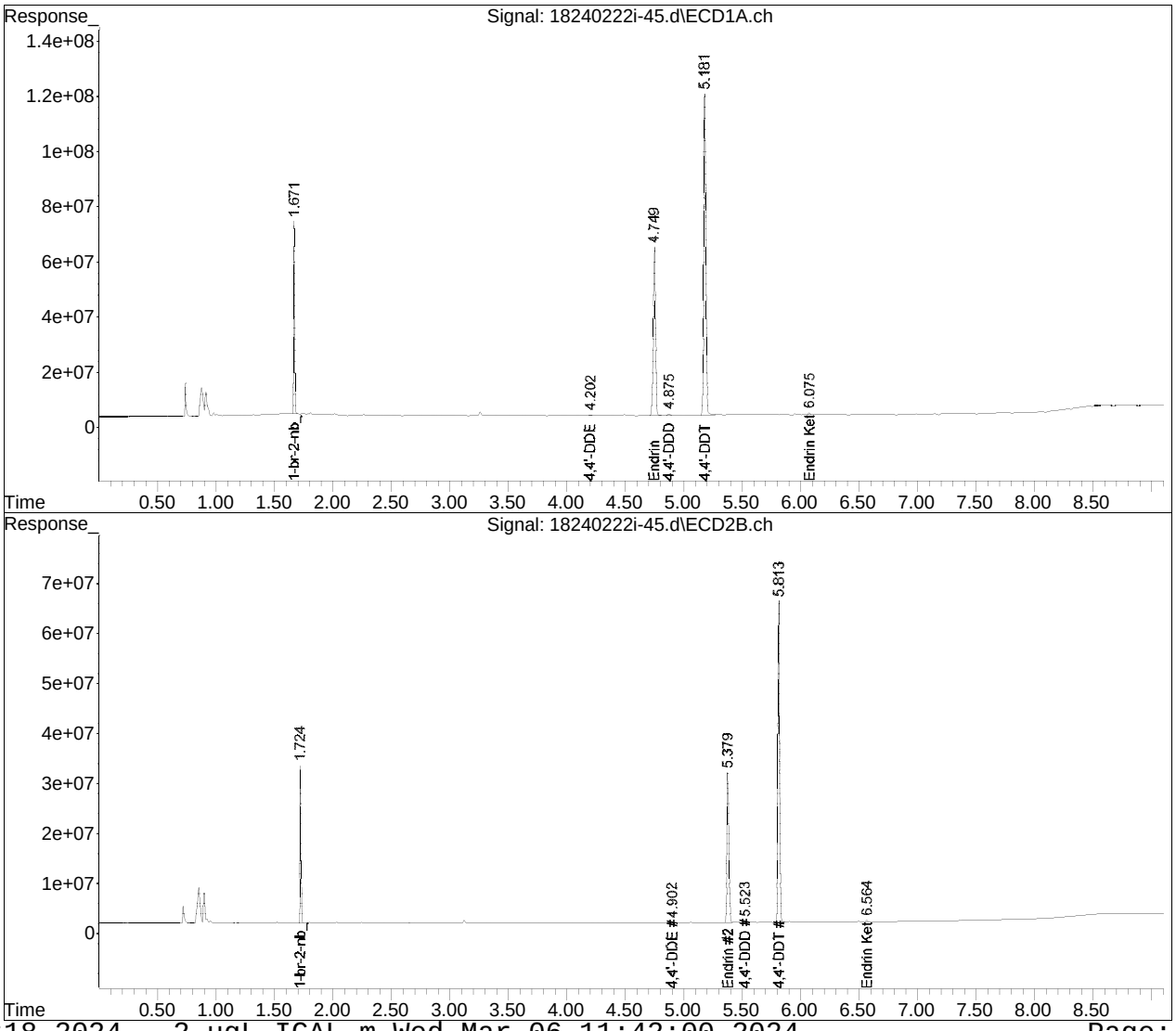
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-45.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 11:52 am
Operator : PEST18:ejl
Sample : pem18240222i-03,42e,,pp 11372 -- (Sig #1); pem-03,42e,,pp 11372 --
Misc : WG1892874,ical
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:17:32 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

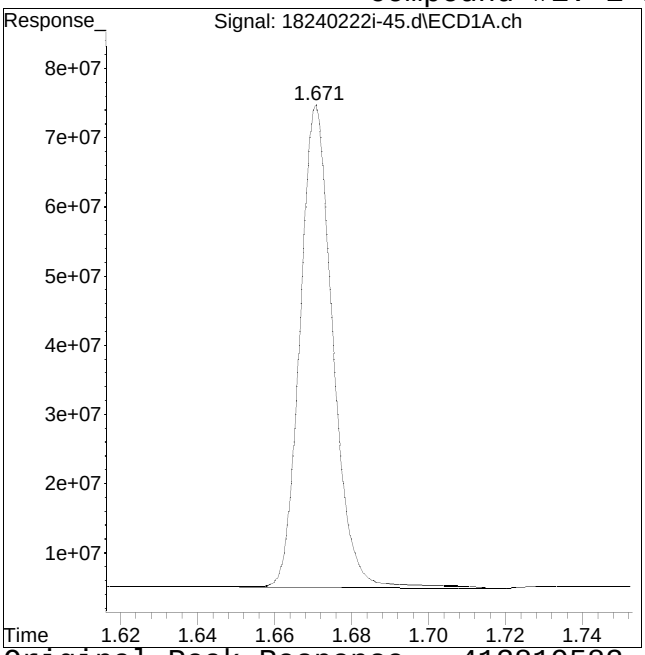
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

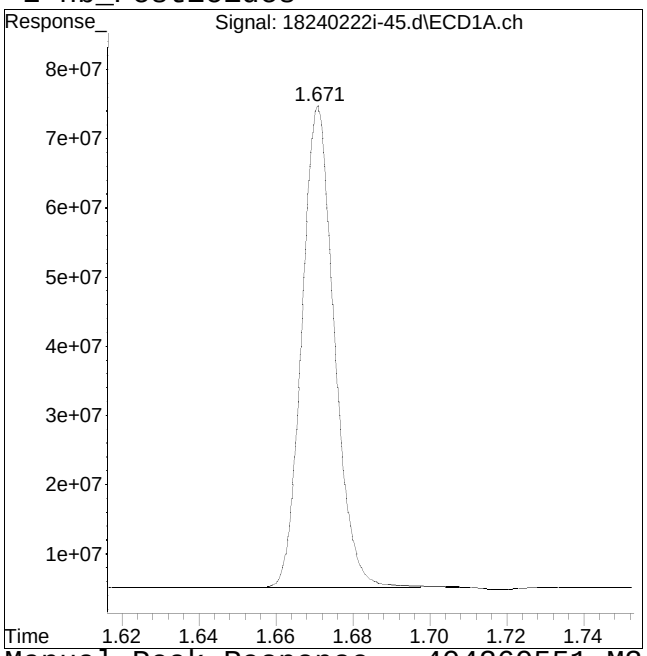


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #1: 1-br-2-nb_Pesticides



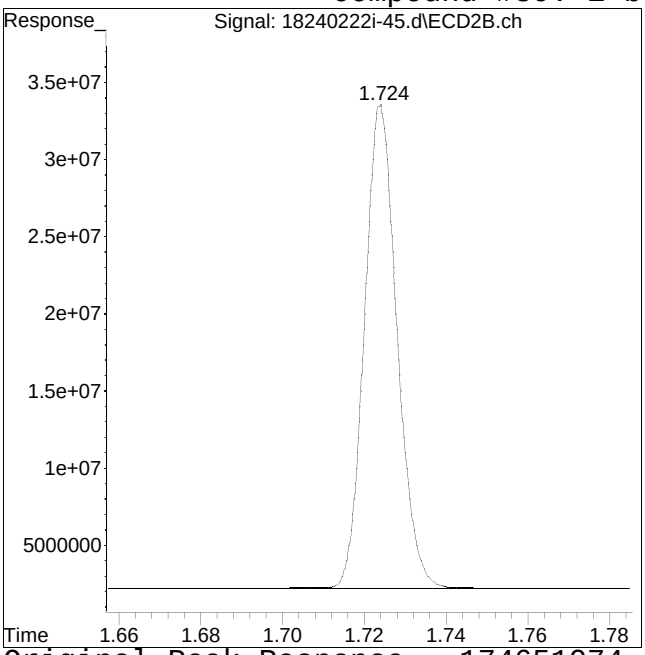


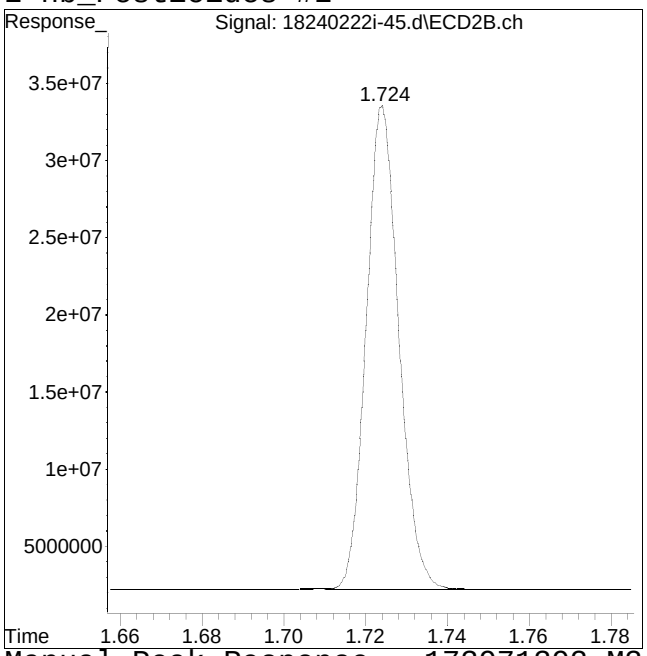
Original Peak Response = 413819583 Manual Peak Response = 404260551 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #39: 1-br-2-nb_Pesticides #2



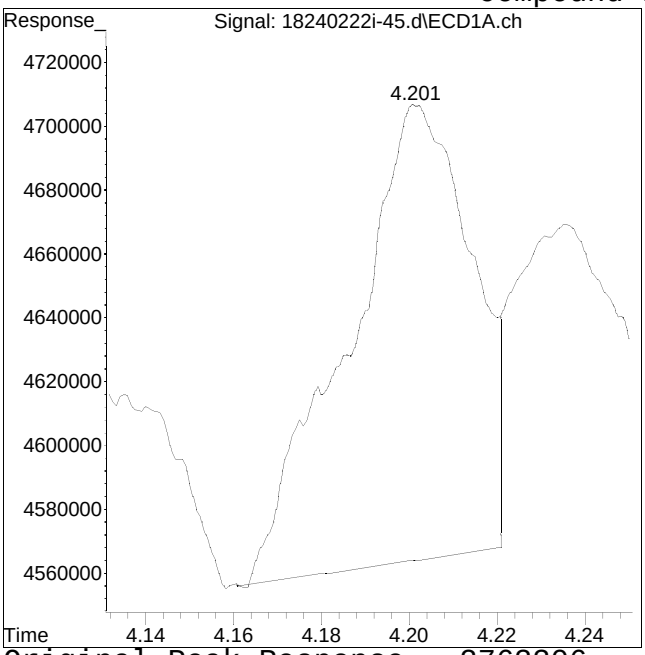


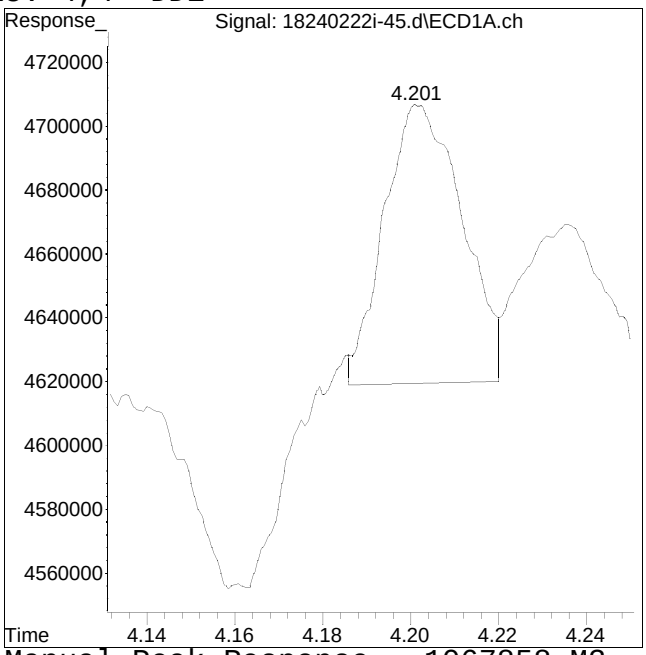
Original Peak Response = 174651974 Manual Peak Response = 173971392 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #15: 4,4'-DDE



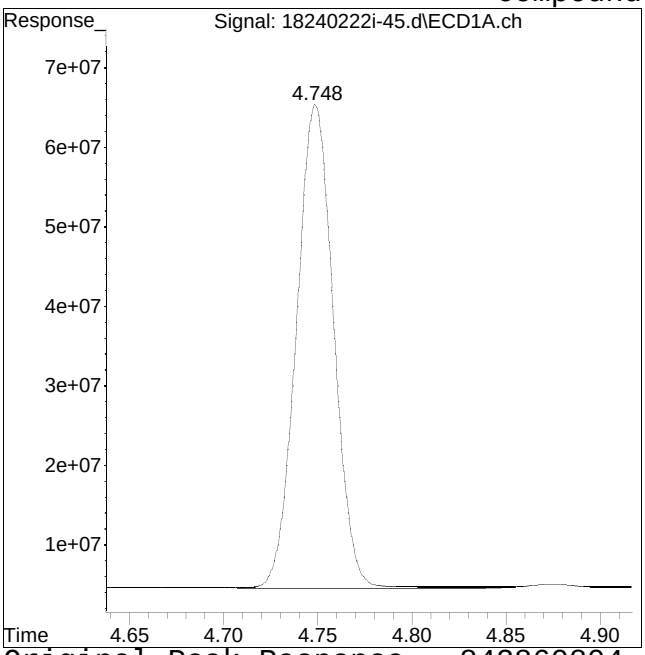


Original Peak Response = 2763306 Manual Peak Response = 1067858 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

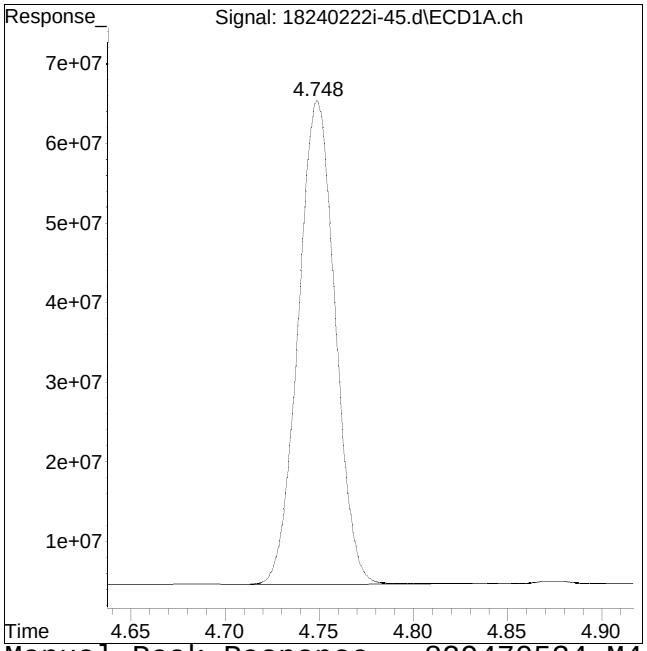
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #18: Endrin



Original Peak Response = 842860804



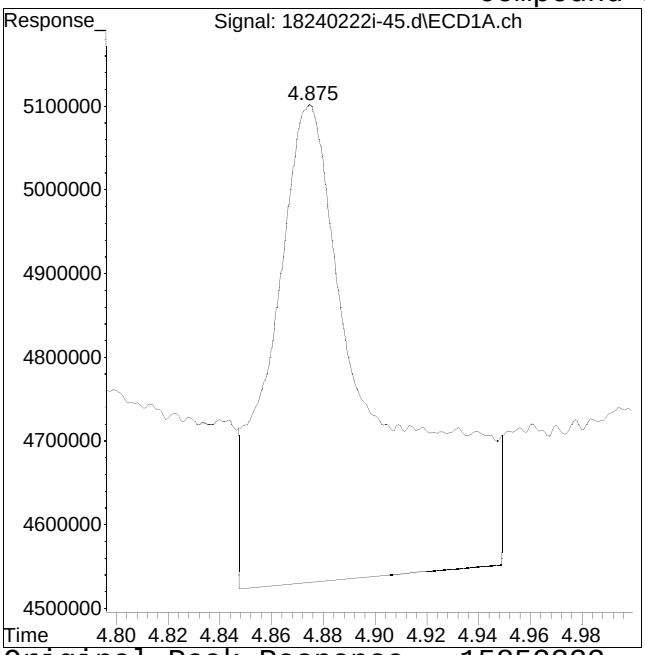
Manual Peak Response = 829470534 M4
M4 = Poor automated baseline construction.

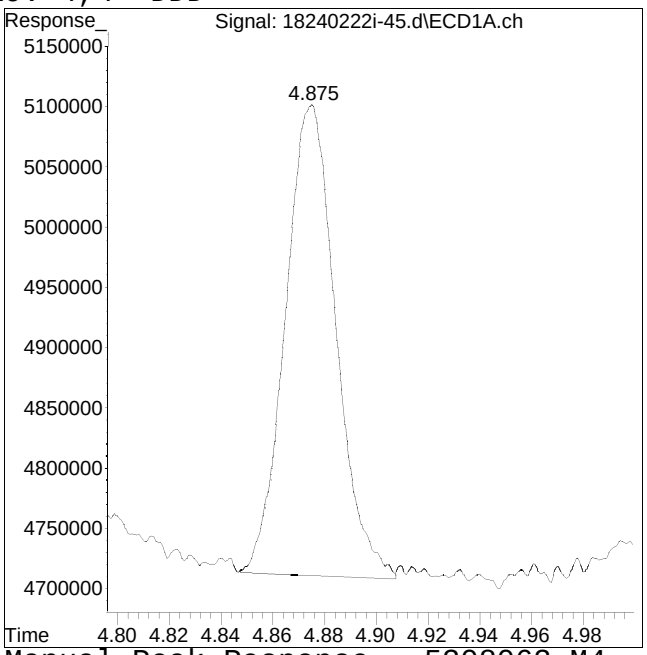
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-45.d
Date Inj'd : 3/1/2024 11:52 am
Sample : pem18240222i-03,42e,,pp 11

Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 3/4/2024 9:17 am

Compound #19: 4,4'-DDD



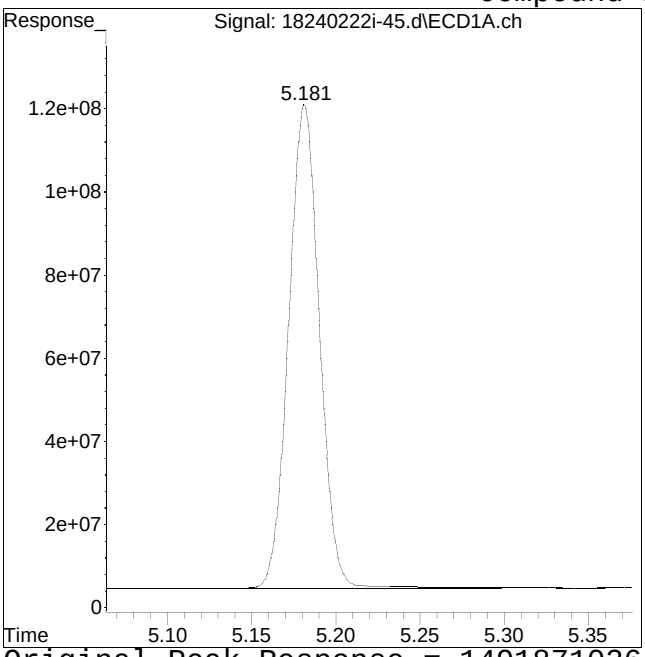


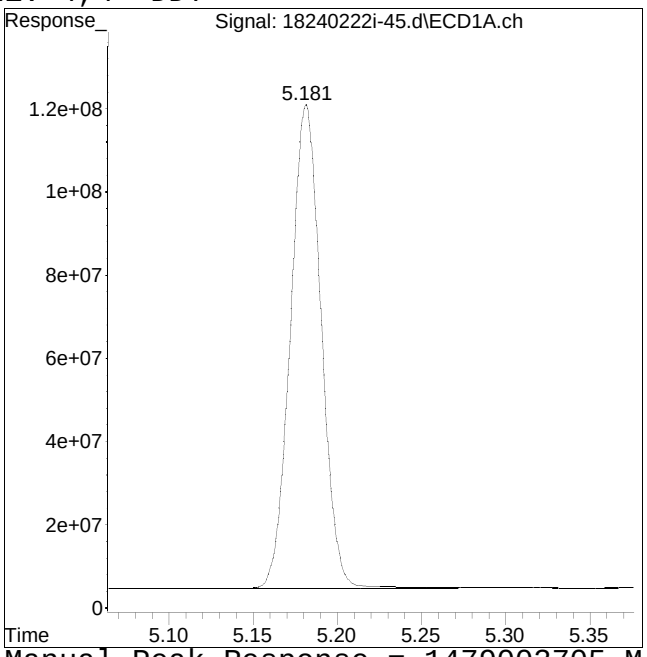
Original Peak Response = 15852333 Manual Peak Response = 5308063 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #21: 4,4'-DDT



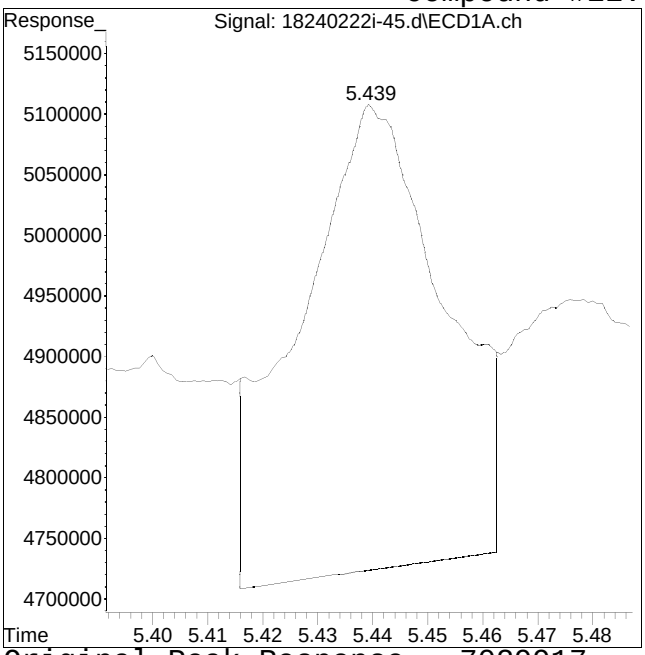


Original Peak Response = 1491871026 Manual Peak Response = 1479003705 M4
M4 = Poor automated baseline construction.

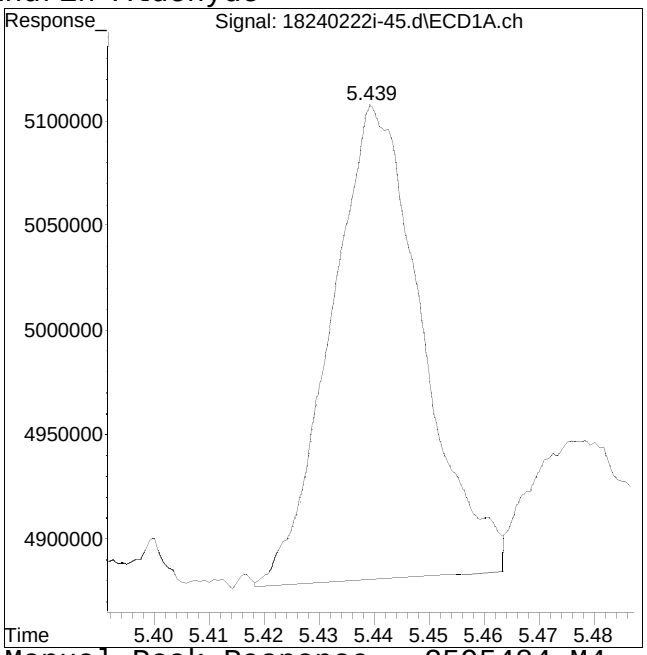
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222Q
Data File : 18240222i-45.d
Date Inj'd : 3/1/2024 11:52 am
Sample : pem18240222i-03,42e,,pp 11
Method : pest18_2024_02_22_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 3/4/2024 9:17 am

Compound #22: Endrin Aldehyde



Original Peak Response = 7029917



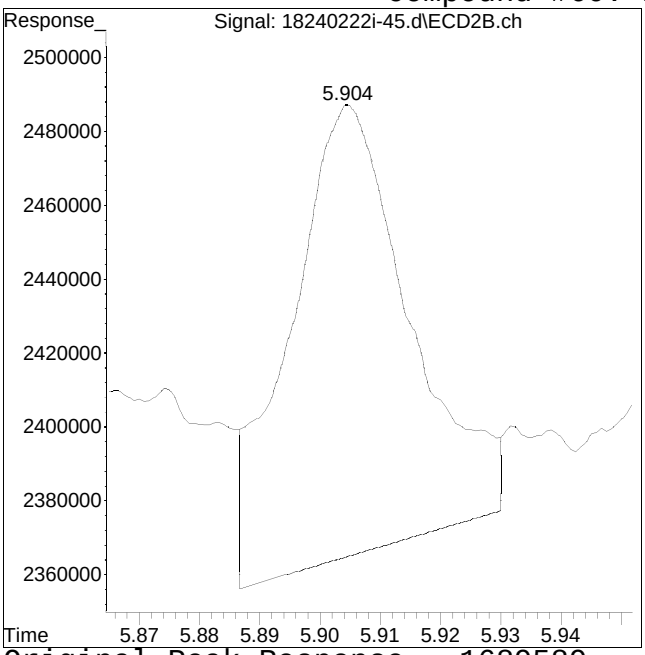
Manual Peak Response = 2595484 M4

M4 = Poor automated baseline construction.

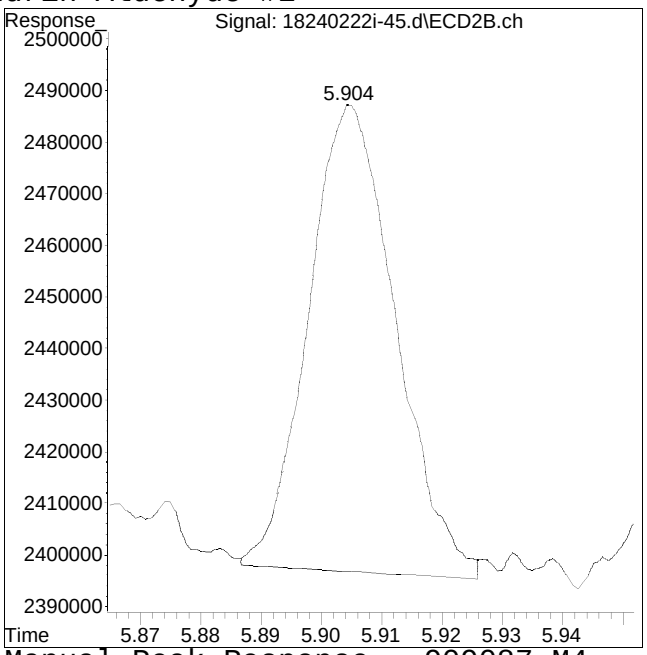
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 1689589



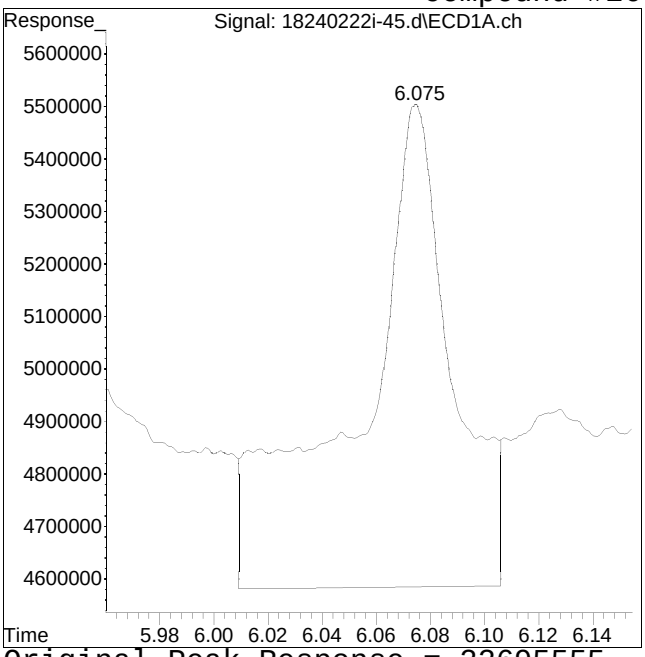
Manual Peak Response = 909087 M4

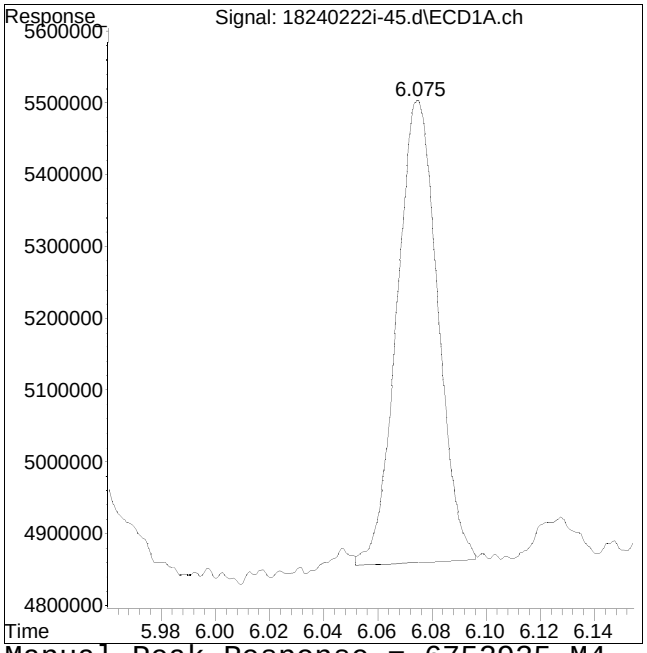
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-45.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 11:52 am Instrument : Pest 18
Sample : pem18240222i-03,42e,,pp 11Quant Date : 3/4/2024 9:17 am

Compound #26: Endrin Ketone





Original Peak Response = 22695555 Manual Peak Response = 6752935 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11470 L1.0ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	95	0.00
29	l1	chlordane-1		*1000.000	741.120	25.9#	69	0.00
30	l1	chlordane-3		*1000.000	965.725	3.4	90	0.00
31	l1	chlordane-4		*1000.000	951.226	4.9	88	0.00
32	l1	chlordane-5		*1000.000	1048.078	-4.8	97	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	986.658	1.3	92	0.00
30	l1	chlordane-3		*1000.000	987.570	1.2	91	0.00
31	l1	chlordane-4		*1000.000	943.586	5.6	88	0.00
32	l1	chlordane-5		*1000.000	928.087	7.2	86	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.67#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.000	100.0#	0#	-2.10#
3		Hexachlorobenzene		* 50.000	0.000	100.0#	0	-2.34#
4		alpha-BHC		1.295	0.000	100.0#	0#	-2.45#
5		gamma-BHC (lindane)		1.214	0.000	100.0#	0#	-2.67#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.73#
7		delta-BHC		1.217	0.000	100.0#	0#	-2.86#
8		Heptachlor		1.207	0.000	100.0#	0#	-3.03#
9		Aldrin		1.083	0.000	100.0#	0#	-3.27#
10		Alachlor		0.190	0.000	100.0#	0#	-3.41#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide		1.041	0.000	100.0#	0#	-3.83#
13		gamma-Chlordane (trans)		0.977	0.000	100.0#	0#	-3.96#

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11470 L1.0ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.075	0.000	100.0#	0#	-4.09#
15		4,4'-DDE		1.019	0.000	100.0#	0#	-4.20#
16		Endosulfan I		0.985	0.000	100.0#	0#	-4.22#
17		Dieldrin		1.023	0.000	100.0#	0#	-4.49#
18		Endrin		1.058	0.000	100.0#	0#	-4.74#
19		4,4'-DDD		0.837	0.000	100.0#	0#	-4.87#
20		Endosulfan II		0.925	0.000	100.0#	0#	-5.00#
21		4,4'-DDT		0.915	0.000	100.0#	0#	-5.17#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.68#
24		Mirex	*	50.000	0.000	100.0#	0	-5.73#
25		Endosulfan Sulfate		0.912	0.000	100.0#	0#	-5.84#
26		Endrin Ketone		1.006	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.89#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.67#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-4.99#
35	l2	toxaphene-2		0.043	0.000	100.0#	0#	-5.12#
36	l2	toxaphene-3		0.042	0.000	100.0#	0#	-5.36#
37	l2	toxaphene-4		0.041	0.000	100.0#	0#	-5.74#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	0.000	100.0#	0#	-2.26#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.59#
4		alpha-BHC		1.279	0.000	100.0#	0#	-2.70#
5		gamma-BHC (lindane)		1.209	0.000	100.0#	0#	-2.98#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.05#
7		delta-BHC		1.217	0.000	100.0#	0#	-3.31#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11470 L1.0ICV
Misc   : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.197	0.000	100.0#	0#	-3.37#
9		Aldrin		1.063	0.000	100.0#	0#	-3.68#
10		Alachlor		0.189	0.000	100.0#	0#	-3.59#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.93#
12		Heptachlor Epoxide		1.035	0.000	100.0#	0#	-4.29#
13		gamma-Chlordane (trans)		0.947	0.000	100.0#	0#	-4.50#
14		alpha-Chlordane (cis)		1.068	0.000	100.0#	0#	-4.68#
15		4,4'-DDE		0.999	0.000	100.0#	0#	-4.90#
16		Endosulfan I		0.989	0.000	100.0#	0#	-4.74#
17		Dieldrin		1.000	0.000	100.0#	0#	-5.06#
18		Endrin		0.979	0.000	100.0#	0#	-5.38#
19		4,4'-DDD		0.833	0.000	100.0#	0#	-5.52#
20		Endosulfan II		0.916	0.000	100.0#	0#	-5.59#
21		4,4'-DDT		0.959	0.000	100.0#	0#	-5.81#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.90#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.40#
24		Mirex	*	50.000	0.000	100.0#	0	-6.52#
25		Endosulfan Sulfate		0.881	0.000	100.0#	0#	-6.14#
26		Endrin Ketone		1.009	0.000	100.0#	0#	-6.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.45#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.72#
34	l2	toxaphene-1		0.020	0.000	100.0#	0#	-5.55#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.58#
36	l2	toxaphene-3		0.036	0.000	100.0#	0#	-5.91#
37	l2	toxaphene-4		0.034	0.000	100.0#	0#	-6.33#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11470 L1.0ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.669	1.723	351.1E6	152.4E6	25.000M3	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11470 L1.0ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.030	3.239	676.3E6	197.8E6	741.120	986.658
30) l1	chlordane-3	3.396	3.839	520.0E6	212.9E6	965.725M3	987.570
31) l1	chlordane-4	3.958	4.506	1831.7E6	753.8E6	951.226	943.586
32) l1	chlordane-5	4.084	4.679	3116.1E6	586.8E6	1048.078	928.087
Sum	chlordane-1			6144.1E6	1751.4E6	N.D.	N.D. D
Average	chlordane-1					926.537	961.475
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

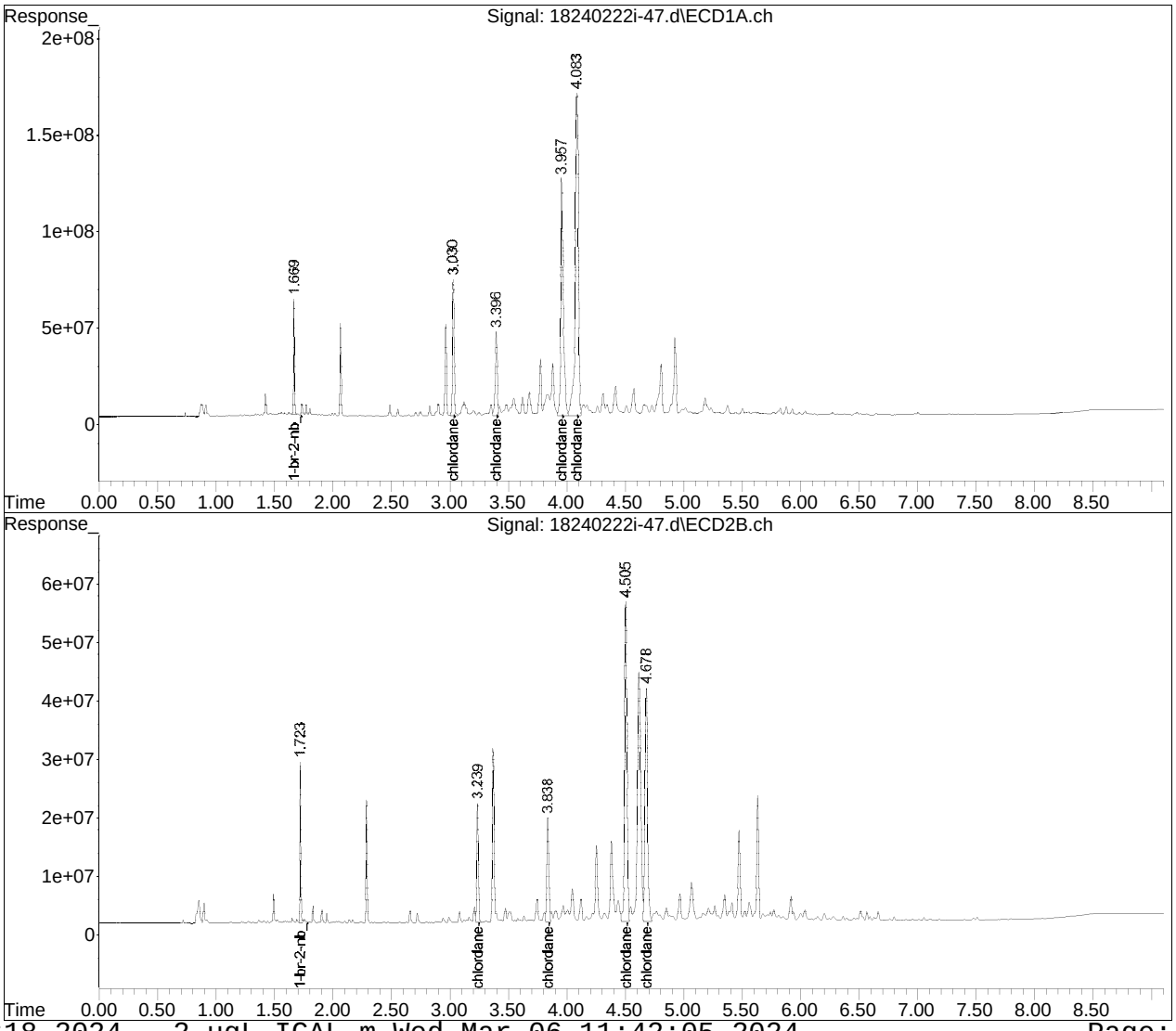
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-47.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:15 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11470 L1.0ICV
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:08:22 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

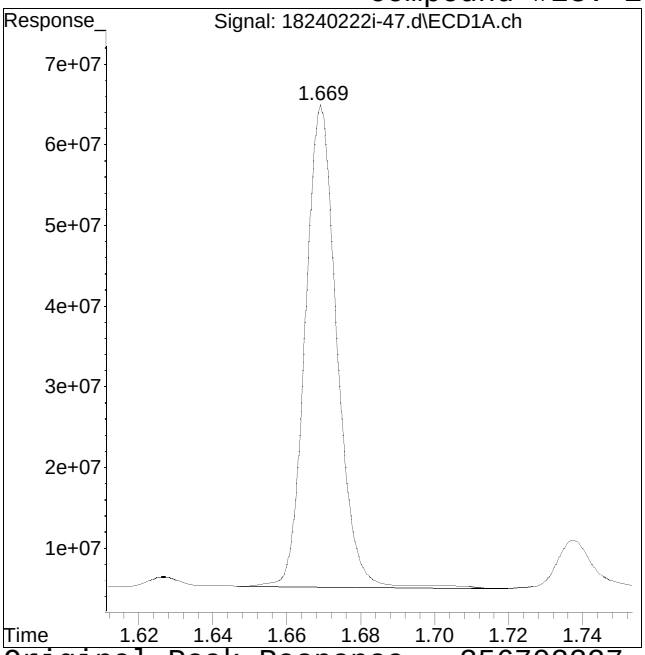
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

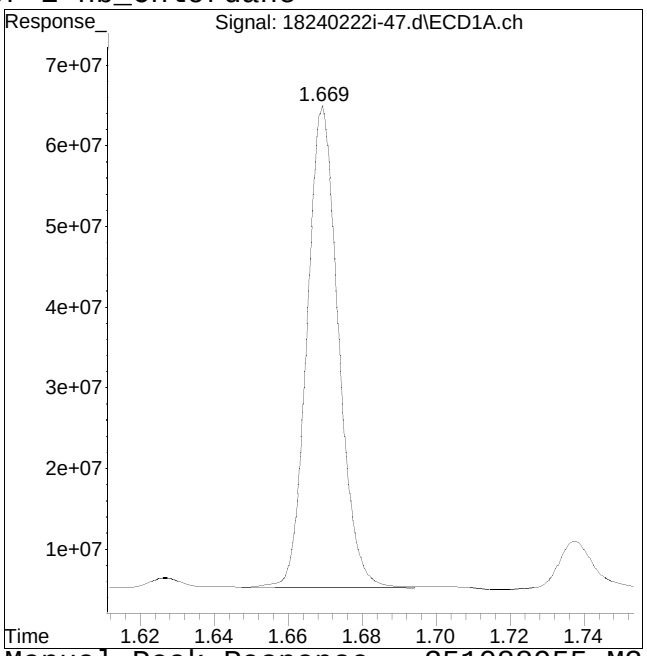


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-47.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:15 pm Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11470 L1Quant Date : 3/4/2024 9:08 am

Compound #28: 1-br-2-nb_Chlordane



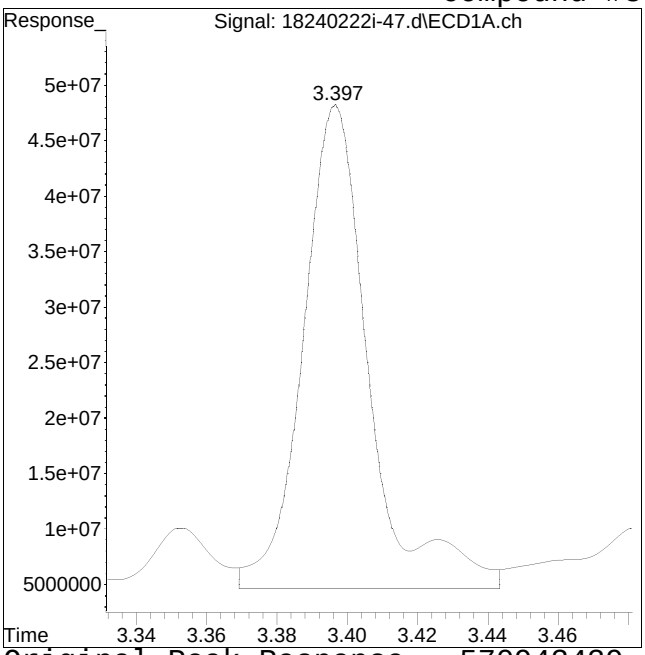


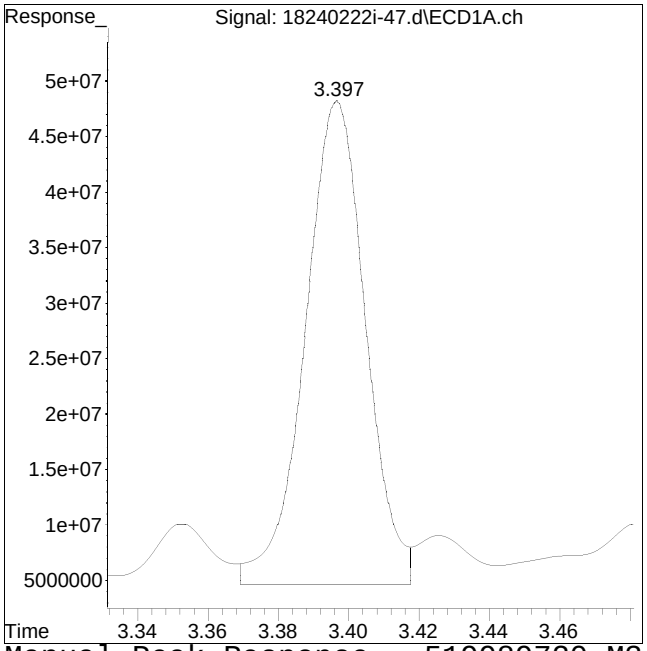
Original Peak Response = 356702327 Manual Peak Response = 351088955 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-47.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:15 pm Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11470 L1Quant Date : 3/4/2024 9:08 am

Compound #30: chlordane-3





Original Peak Response = 570943439 Manual Peak Response = 519989720 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-48.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:27 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:12:25 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.669	1.723	329.0E6	144.4E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-48.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:27 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:12:25 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.989	5.548	12933523	1805551	20.330M3	12.026
35) l2	toxaphene-2	5.118	5.576	10998351	3308776	16.163	15.241
36) l2	toxaphene-3	5.356	5.912	10475582	3871022	13.887	15.165
37) l2	toxaphene-4	5.742	6.333	12957700	3704086	20.849	15.685
Sum	toxaphene-1			47365156	12689436	71.229	58.116
Average	toxaphene-1					17.807	14.529

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			47365156	12689436	71.229	58.116
Average	toxaphene-1					17.807	14.529

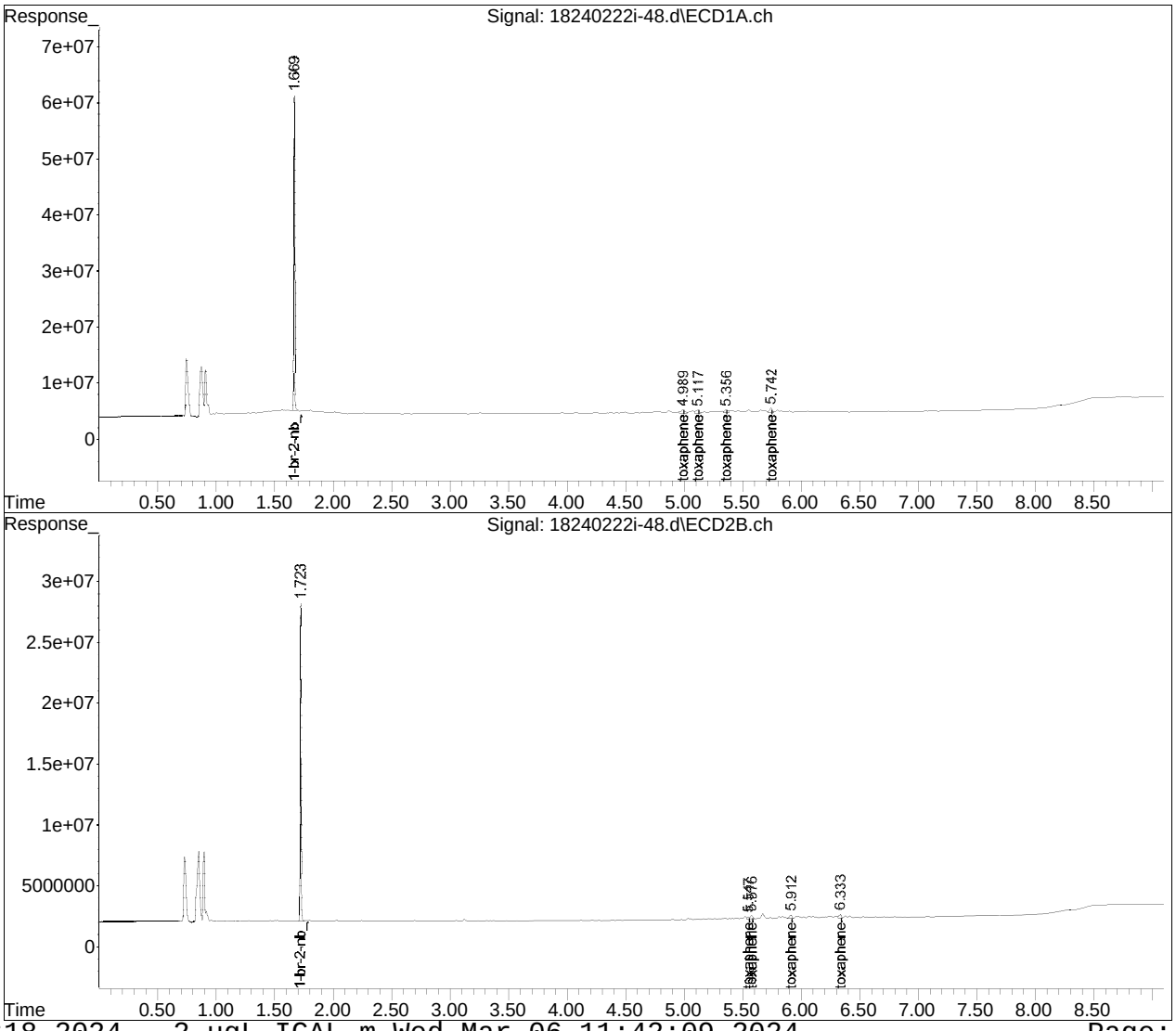
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-48.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:27 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:12:25 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

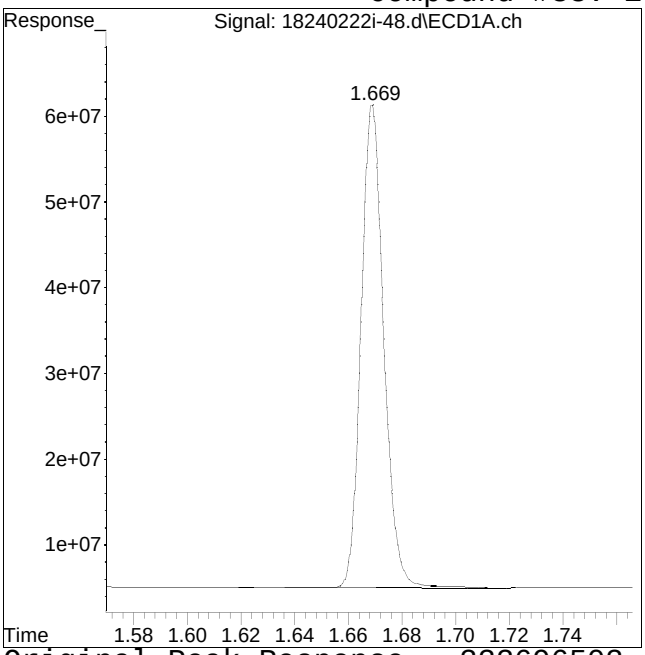
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

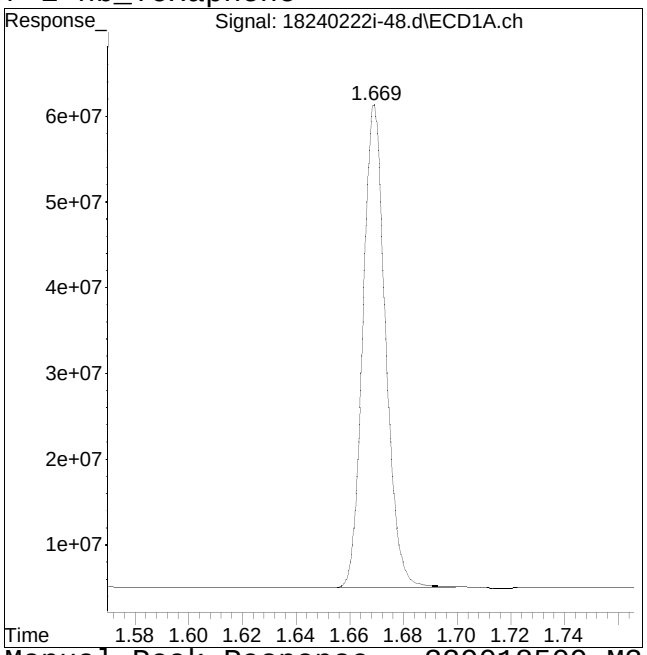


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-48.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:27 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 3/4/2024 9:12 am

Compound #33: 1-br-2-nb_Toxaphene



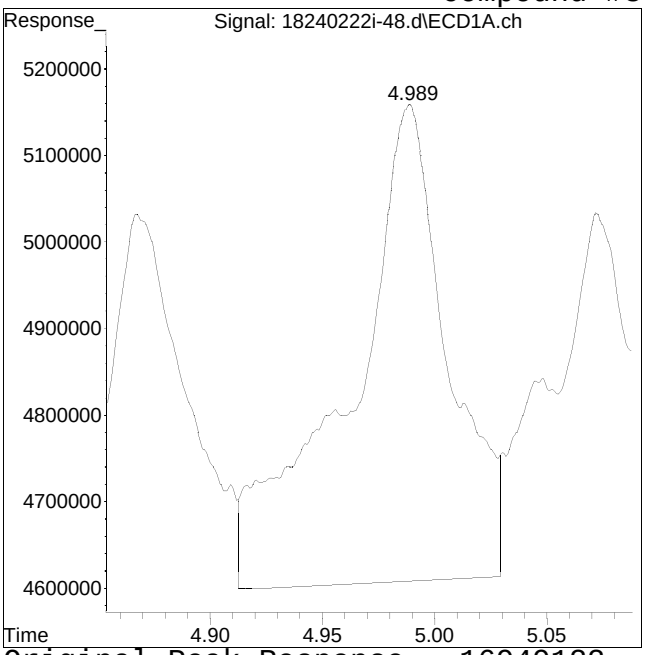


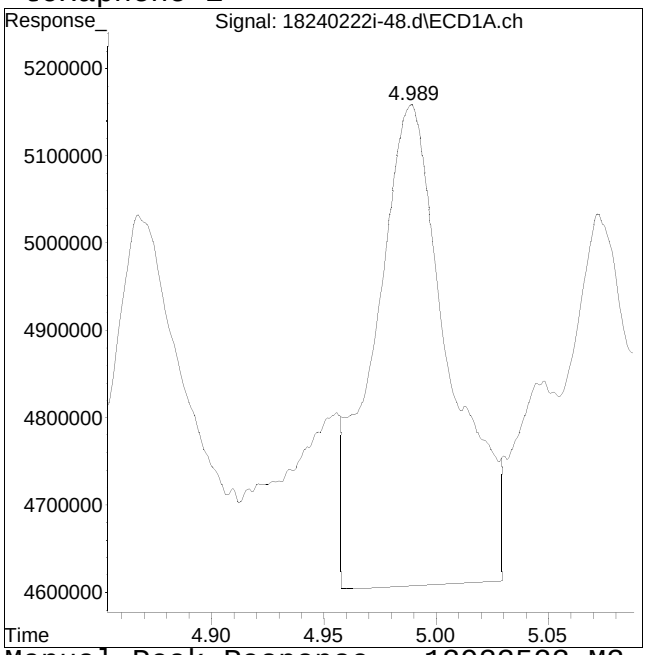
Original Peak Response = 333696503 Manual Peak Response = 329018509 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-48.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:27 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 3/4/2024 9:12 am

Compound #34: toxaphene-1





Original Peak Response = 16949122 Manual Peak Response = 12933523 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-49.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:38 pm
Operator : PEST18:ejl
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:11:37 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.669	1.724	346.5E6	152.7E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-49.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:38 pm
Operator : PEST18:ejl
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:11:37 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.988	5.551	60030895	12347255	75.562M3	65.785
35)	l2	toxaphene-2	5.117	5.577	61691490	17902633	72.785M3	64.902
36)	l2	toxaphene-3	5.356	5.912	63781101	21080801	69.161	65.411
37)	l2	toxaphene-4	5.742	6.333	57421463	20327373	74.730	68.650
Sum		toxaphene-1			242.9E6	71658062	292.239	264.748
Average		toxaphene-1					73.060	66.187

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			242.9E6	71658062	292.239	264.748
Average		toxaphene-1					73.060	66.187

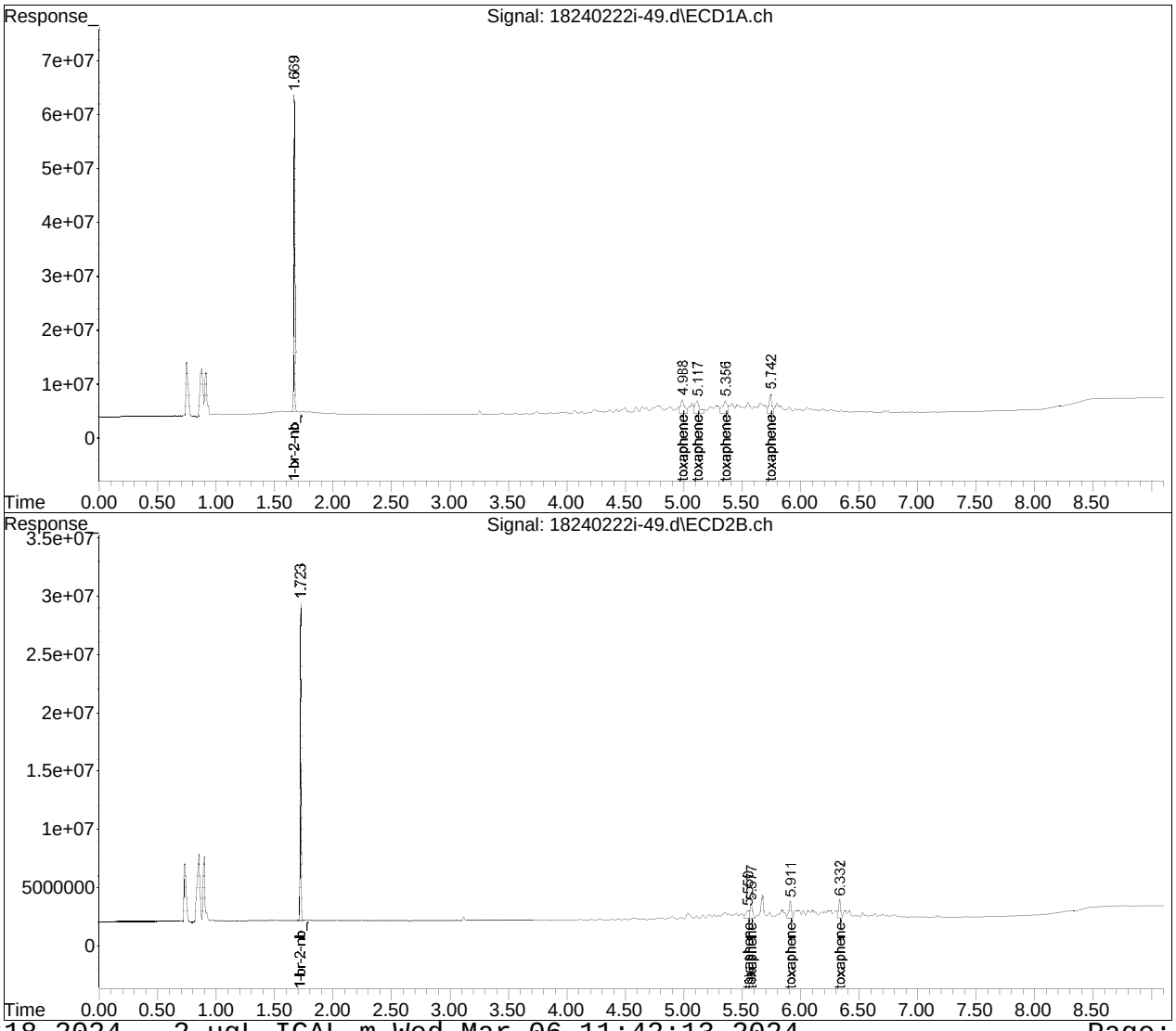
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-49.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:38 pm
Operator : PEST18:ejl
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:11:37 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

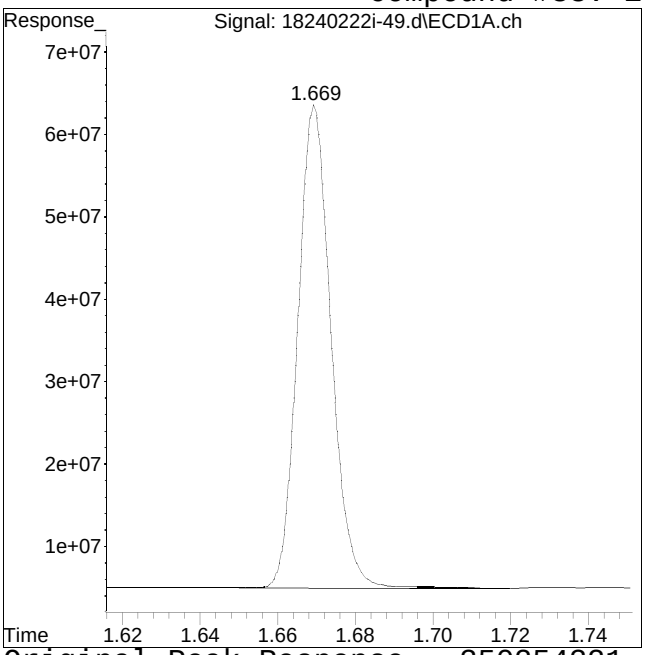
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

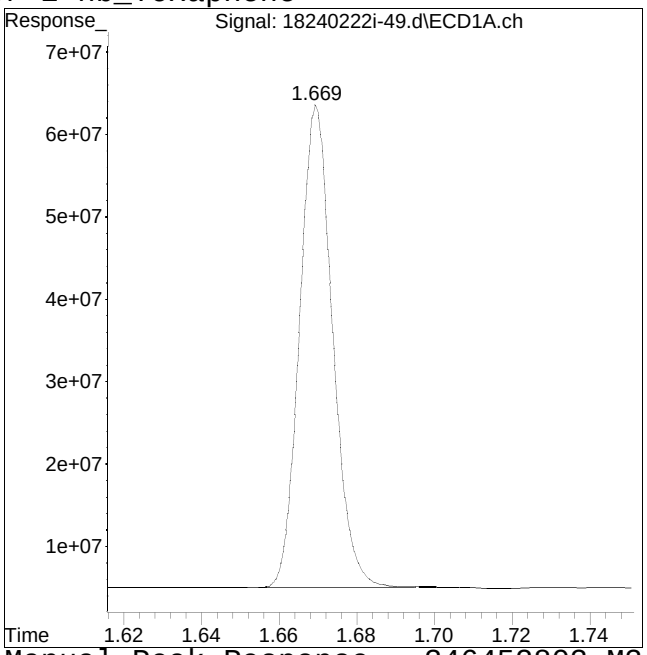


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-49.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:38 pm Instrument : Pest 18
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 3/4/2024 9:11 am

Compound #33: 1-br-2-nb_Toxaphene



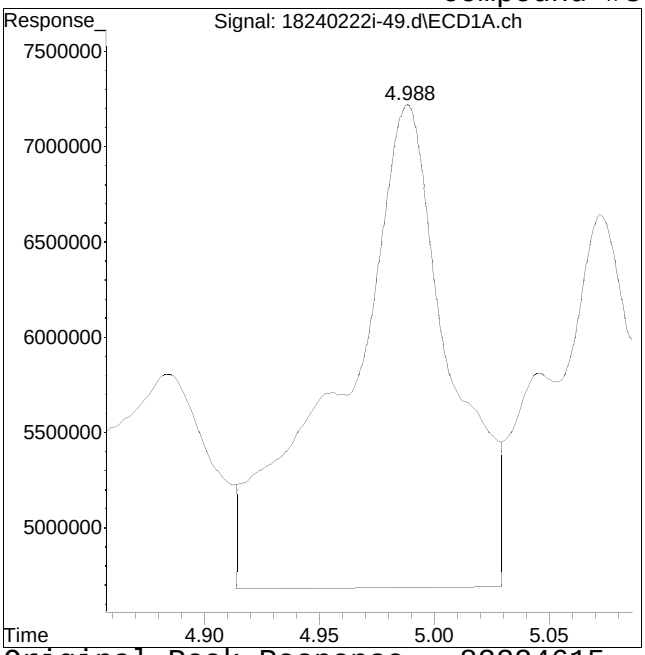


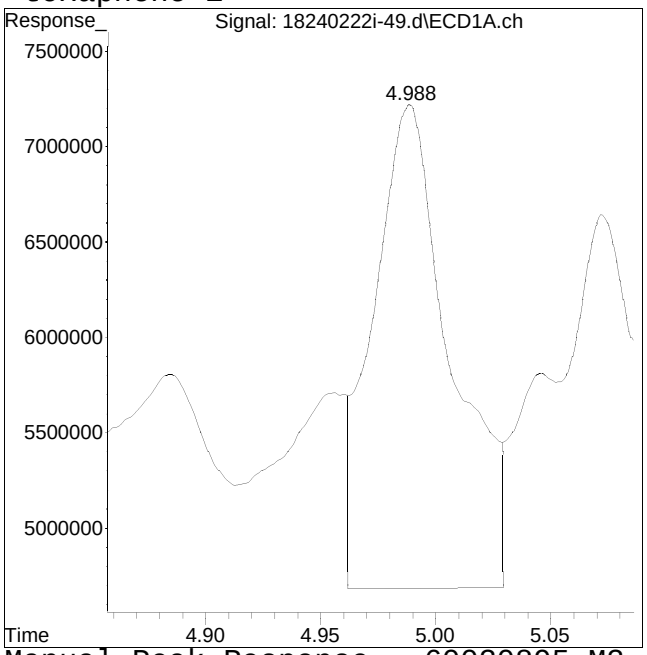
Original Peak Response = 350254321 Manual Peak Response = 346452803 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-49.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:38 pm Instrument : Pest 18
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 3/4/2024 9:11 am

Compound #34: toxaphene-1



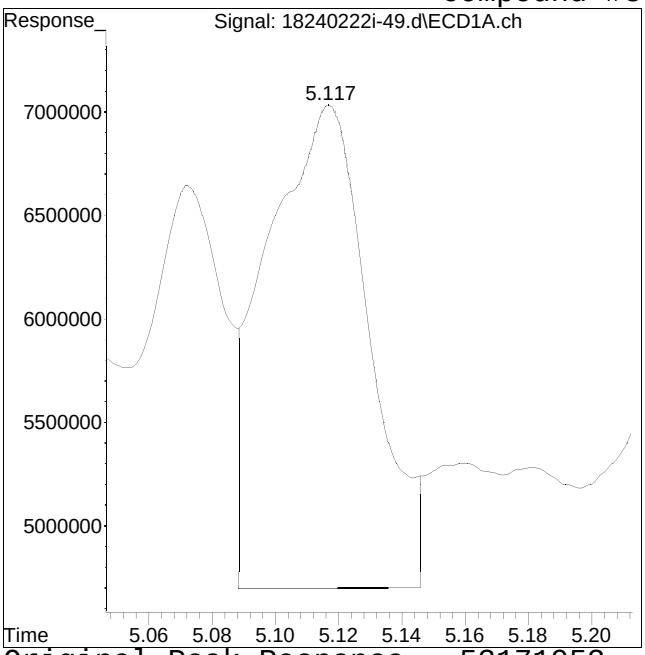


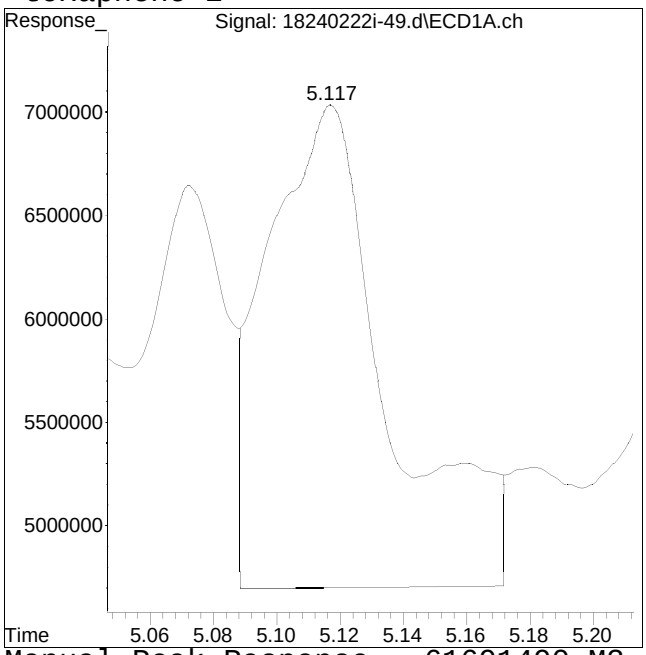
Original Peak Response = 82224615 Manual Peak Response = 60030895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-49.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:38 pm Instrument : Pest 18
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 3/4/2024 9:11 am

Compound #35: toxaphene-2





Original Peak Response = 53171953 Manual Peak Response = 61691490 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-50.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:50 pm
Operator : PEST18:ejl
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:10:44 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:10:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.669	1.723	350.8E6	152.0E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-50.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:50 pm
Operator : PEST18:ejl
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:10:44 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:10:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.989	5.550	558.8E6	128.4E6	606.804M3	601.286
35) l2	toxaphene-2	5.118	5.578	610.8E6	195.9E6	622.285M3	621.857
36) l2	toxaphene-3	5.356	5.912	594.2E6	230.7E6	561.705	625.194
37) l2	toxaphene-4	5.742	6.333	538.5E6	210.6E6	608.006	621.904
Sum	toxaphene-1			2302.3E6	765.5E6	2398.800	2470.241
Average	toxaphene-1					599.700	617.560

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2302.3E6	765.5E6	2398.800	2470.241
Average	toxaphene-1					599.700	617.560

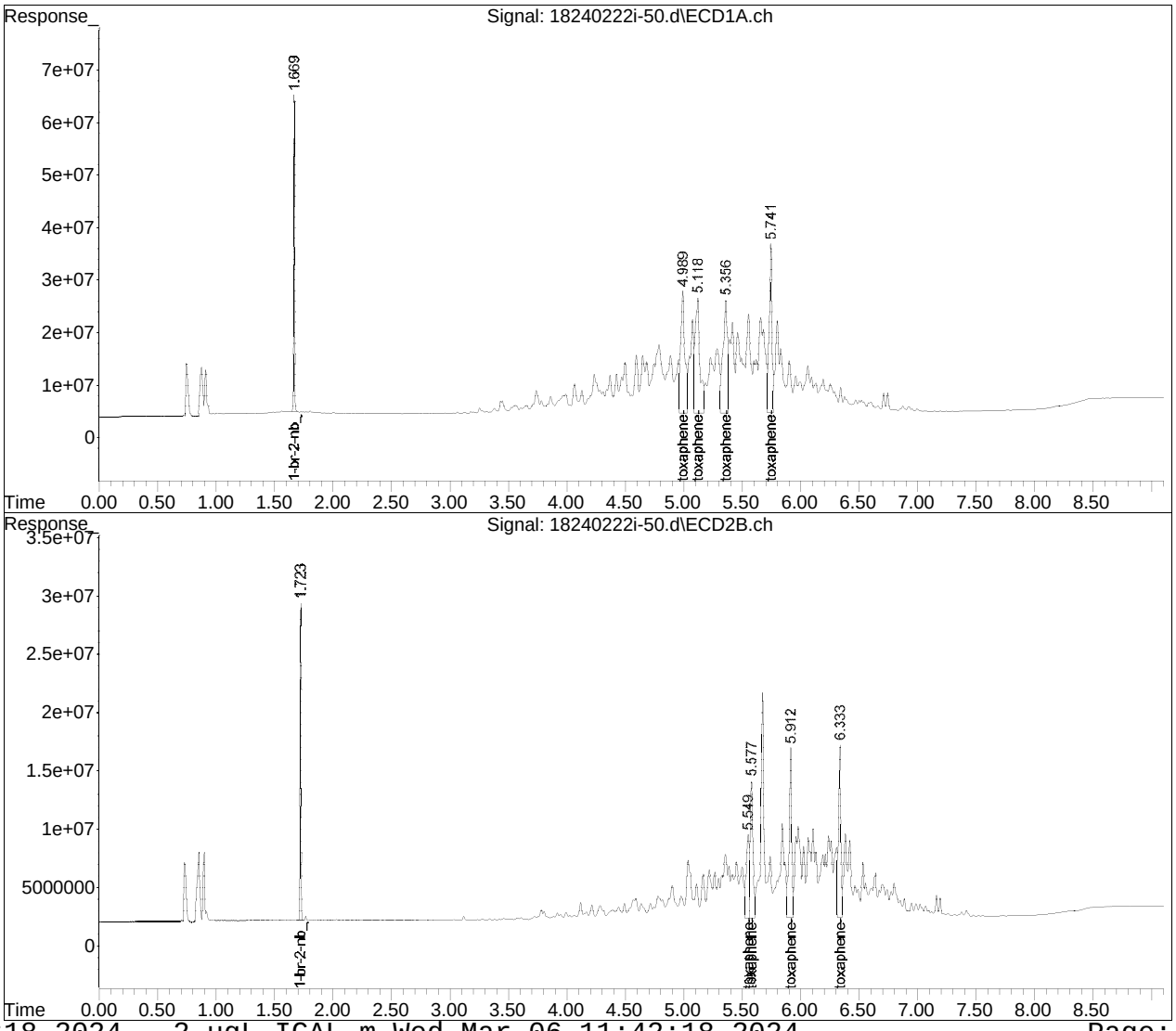
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-50.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 12:50 pm
Operator : PEST18:ejl
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:10:44 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:10:14 2024
Response via : Initial Calibration
Integrator: ChemStation

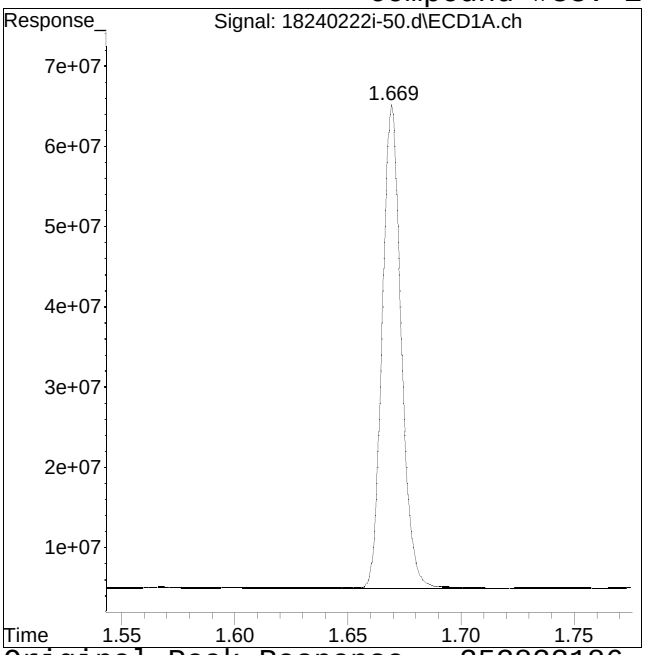
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

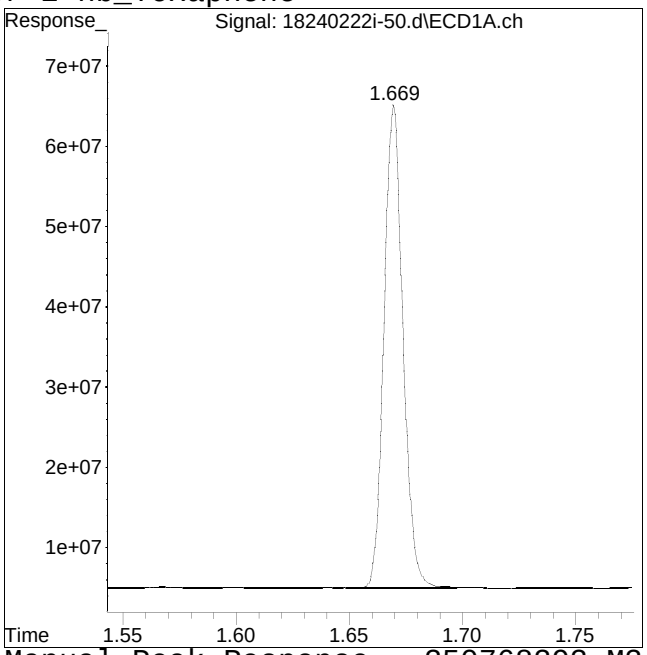


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-50.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:50 pm Instrument : Pest 18
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 3/4/2024 9:10 am

Compound #33: 1-br-2-nb_Toxaphene



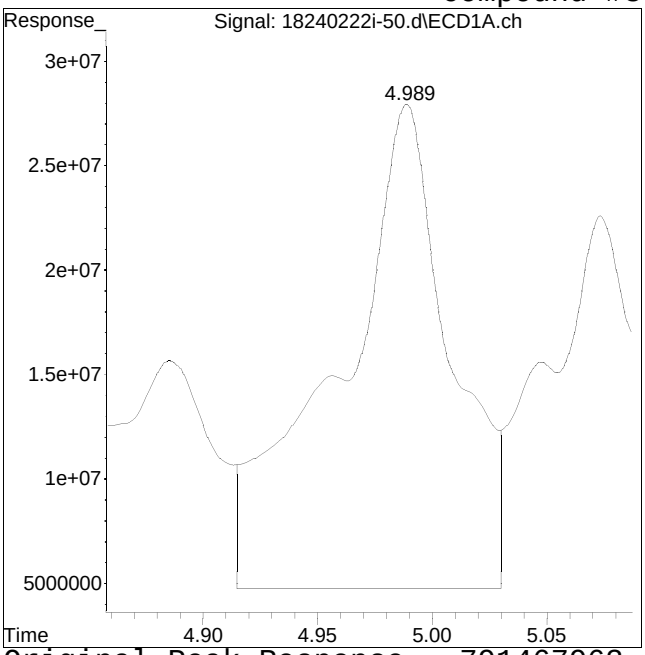


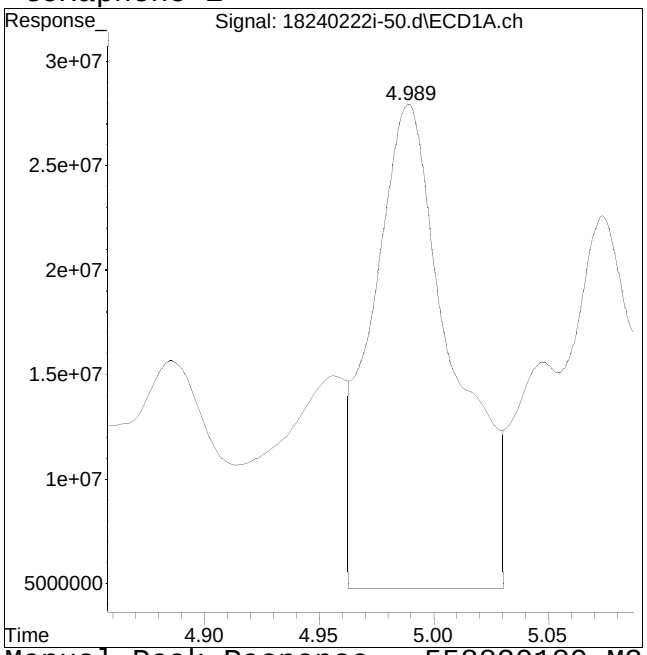
Original Peak Response = 353833186 Manual Peak Response = 350768393 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-50.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:50 pm Instrument : Pest 18
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 3/4/2024 9:10 am

Compound #34: toxaphene-1



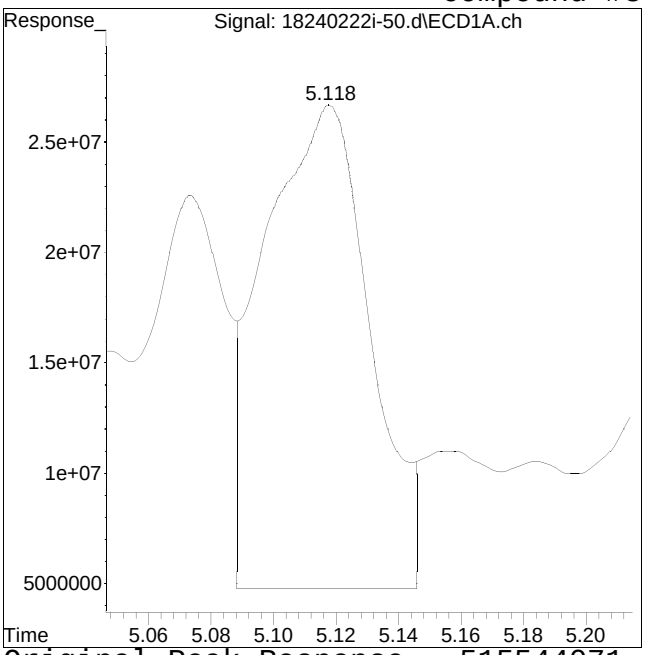


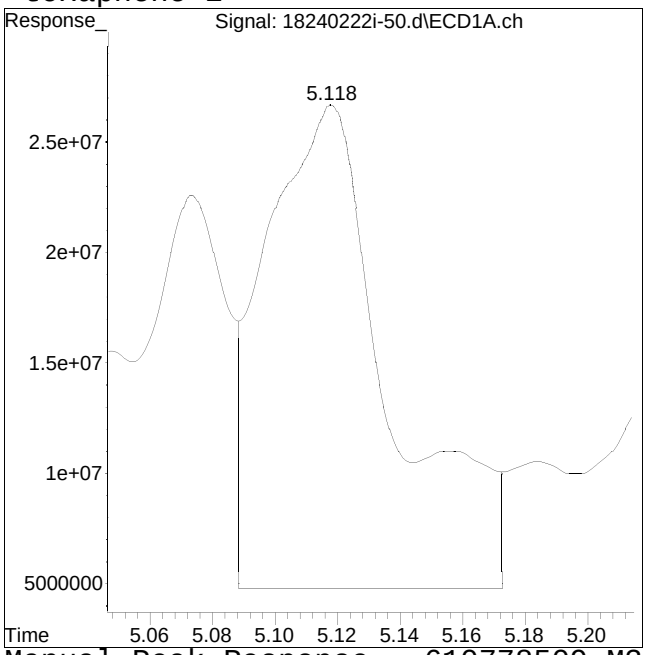
Original Peak Response = 791467963 Manual Peak Response = 558820180 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-50.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 12:50 pm Instrument : Pest 18
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 3/4/2024 9:10 am

Compound #35: toxaphene-2





Original Peak Response = 515544071 Manual Peak Response = 610778509 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-51.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:01 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:09:31 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.668	1.723	346.3E6	149.4E6	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-51.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:01 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:09:31 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.987	5.549	1119.0E6	255.4E6	1101.543M3	1083.745
35)	l2	toxaphene-2	5.116	5.577	1207.3E6	389.1E6	1115.929M3	1116.989
36)	l2	toxaphene-3	5.355	5.912	1163.8E6	459.4E6	1005.299	1123.912
37)	l2	toxaphene-4	5.741	6.333	1047.3E6	419.6E6	1072.616	1121.351
	Sum	toxaphene-1			4537.5E6	1523.5E6	4295.387	4445.997
Average		toxaphene-1					1073.847	1111.499

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			4537.5E6	1523.5E6	4295.387	4445.997
Average		toxaphene-1					1073.847	1111.499

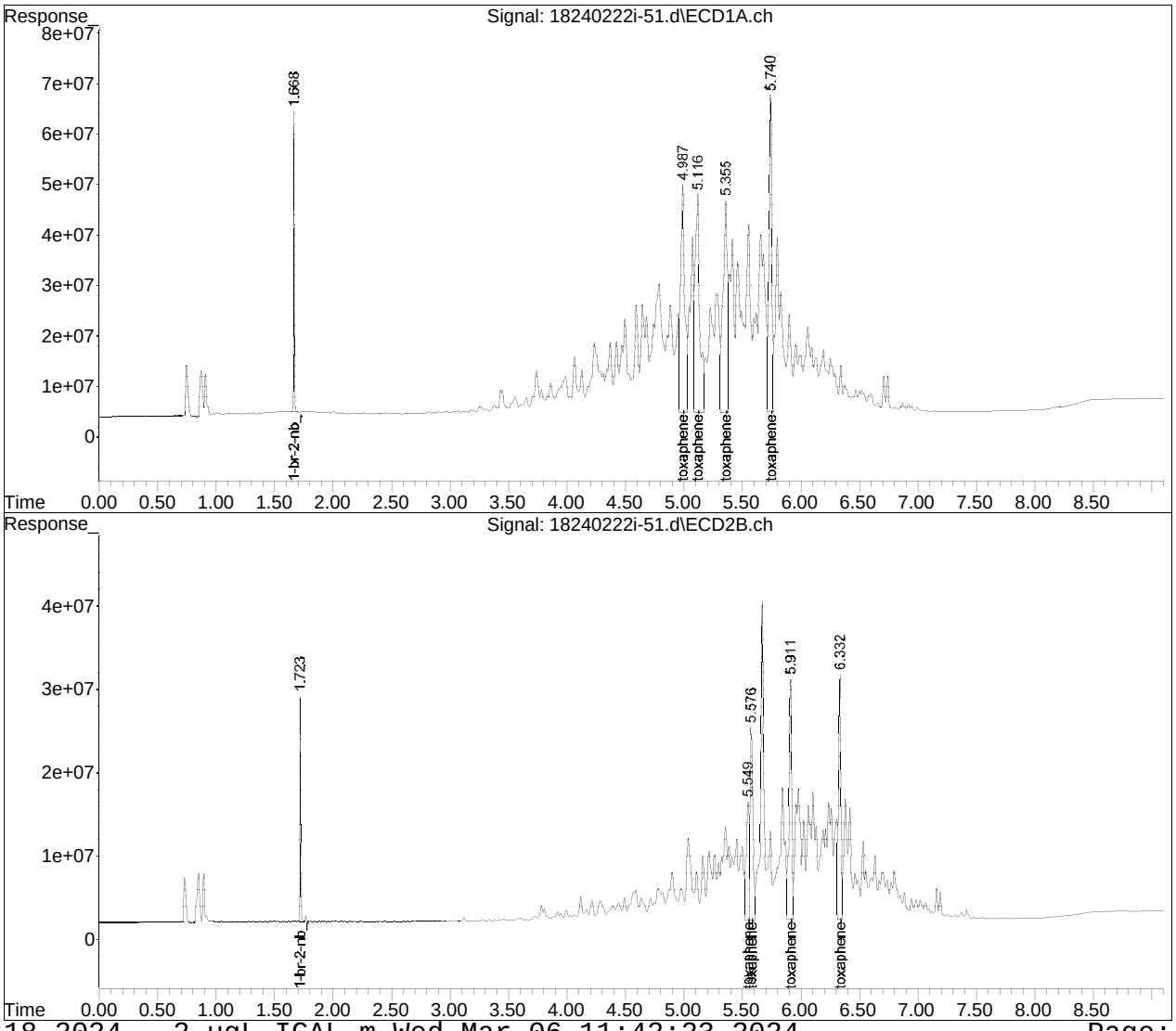
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-51.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:01 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1892874,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:09:31 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:07:51 2024
Response via : Initial Calibration
Integrator: ChemStation

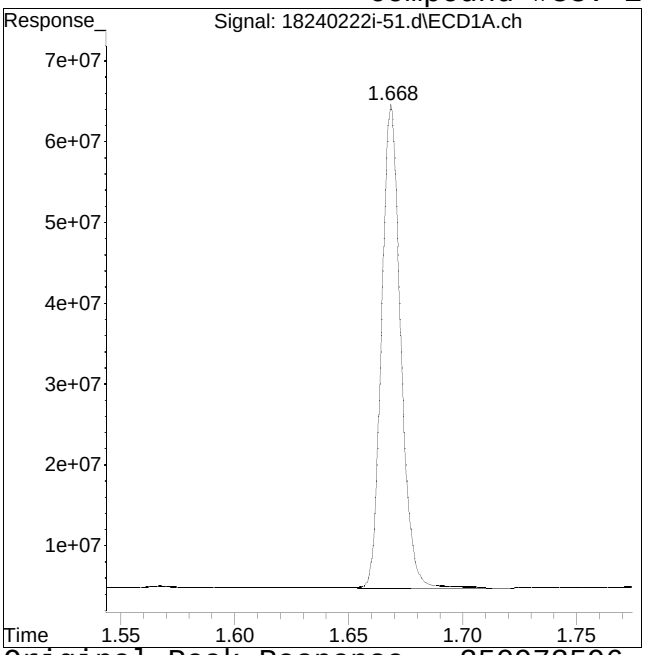
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

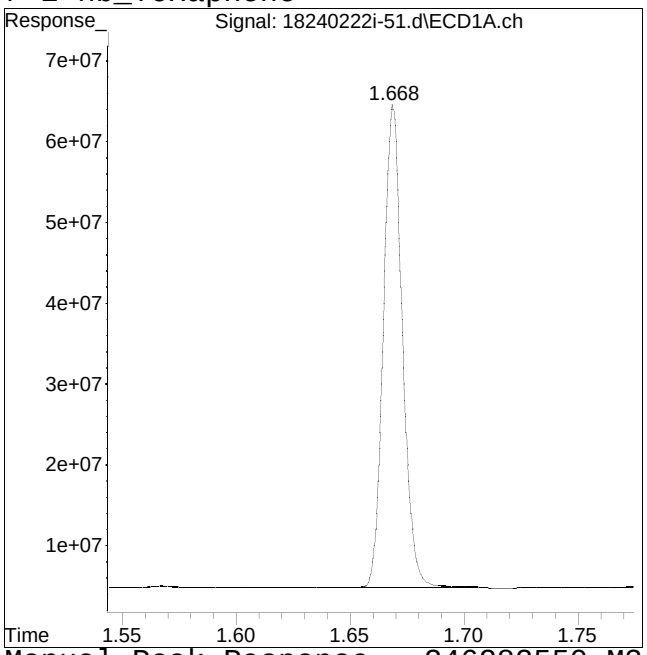


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-51.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:01 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 3/4/2024 9:09 am

Compound #33: 1-br-2-nb_Toxaphene



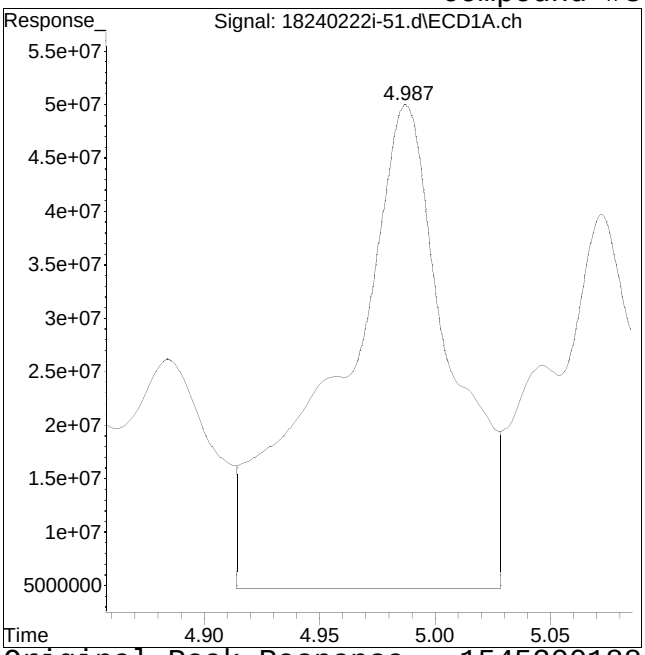


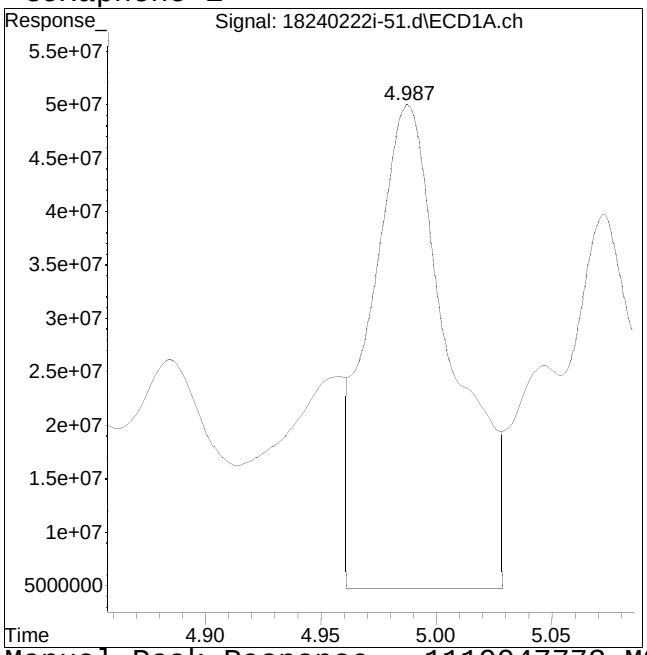
Original Peak Response = 350973596 Manual Peak Response = 346282550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-51.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:01 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 3/4/2024 9:09 am

Compound #34: toxaphene-1



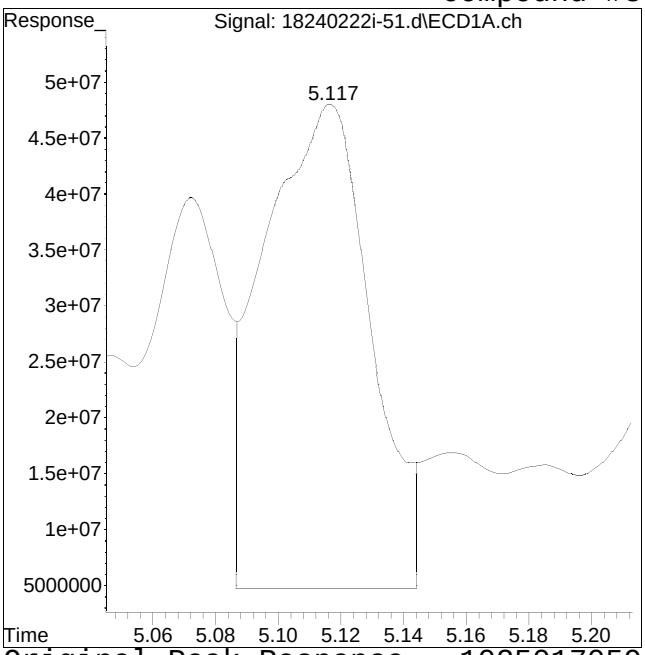


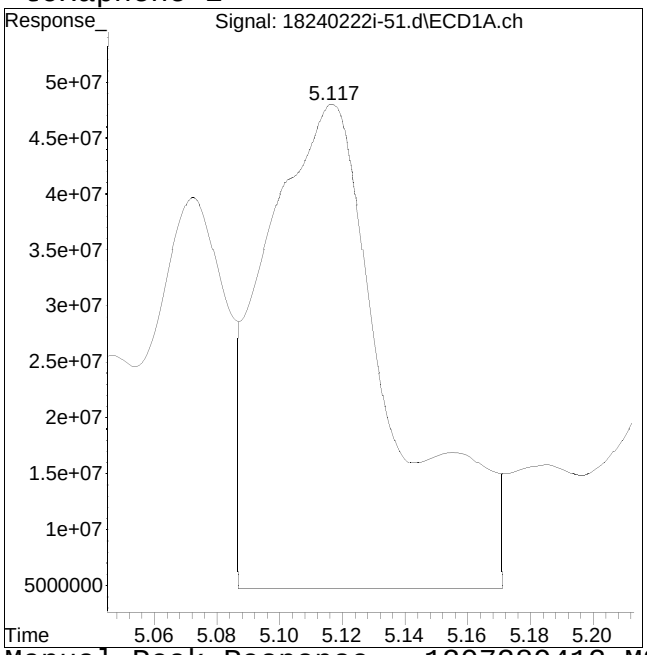
Original Peak Response = 1545200188 Manual Peak Response = 1119047773 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-51.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:01 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 3/4/2024 9:09 am

Compound #35: toxaphene-2





Original Peak Response = 1025017059 Manual Peak Response = 1207289412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024   1:12 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11465 L2.0ICV
Misc   : WG1892874,ical
ALS Vial : 52   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	104	0.00
34	l2	toxaphene-1		0.042	0.038	9.5	99	0.00
35	l2	toxaphene-2		0.043	0.042	2.3	100	0.00
36	l2	toxaphene-3		0.042	0.040	4.8	99	0.00
37	l2	toxaphene-4		0.041	0.037	9.8	101	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	101	0.00
34	l2	toxaphene-1		0.020	0.021	-5.0	101	0.00
35	l2	toxaphene-2		0.031	0.033	-6.5	103	0.00
36	l2	toxaphene-3		0.036	0.037	-2.8	97	0.00
37	l2	toxaphene-4		0.034	0.036	-5.9	103	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.67#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.000	100.0#	0#	-2.10#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.34#
4		alpha-BHC		1.295	0.000	100.0#	0#	-2.45#
5		gamma-BHC (lindane)		1.214	0.000	100.0#	0#	-2.67#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.73#
7		delta-BHC		1.217	0.000	100.0#	0#	-2.86#
8		Heptachlor		1.207	0.000	100.0#	0#	-3.03#
9		Aldrin		1.083	0.000	100.0#	0#	-3.27#
10		Alachlor		0.190	0.000	100.0#	0#	-3.41#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide		1.041	0.000	100.0#	0#	-3.83#
13		gamma-Chlordane (trans)		0.977	0.000	100.0#	0#	-3.96#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024   1:12 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11465 L2.0ICV
Misc   : WG1892874,ical
ALS Vial : 52   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.075	0.000	100.0#	0#	-4.09#
15		4,4'-DDE		1.019	0.000	100.0#	0#	-4.20#
16		Endosulfan I		0.985	0.000	100.0#	0#	-4.22#
17		Dieldrin		1.023	0.000	100.0#	0#	-4.49#
18		Endrin		1.058	0.000	100.0#	0#	-4.74#
19		4,4'-DDD		0.837	0.000	100.0#	0#	-4.87#
20		Endosulfan II		0.925	0.000	100.0#	0#	-5.00#
21		4,4'-DDT		0.915	0.000	100.0#	0#	-5.17#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.68#
24		Mirex	*	50.000	0.000	100.0#	0	-5.73#
25		Endosulfan Sulfate		0.912	0.000	100.0#	0#	-5.84#
26		Endrin Ketone		1.006	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.89#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.67#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.03#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.40#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.96#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.09#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	0.000	100.0#	0#	-2.26#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.59#
4		alpha-BHC		1.279	0.000	100.0#	0#	-2.70#
5		gamma-BHC (lindane)		1.209	0.000	100.0#	0#	-2.98#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.05#
7		delta-BHC		1.217	0.000	100.0#	0#	-3.31#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 1 Mar 2024   1:12 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11465 L2.0ICV
Misc   : WG1892874,ical
ALS Vial : 52   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.197	0.000	100.0#	0#	-3.37#
9		Aldrin		1.063	0.000	100.0#	0#	-3.68#
10		Alachlor		0.189	0.000	100.0#	0#	-3.59#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.93#
12		Heptachlor Epoxide		1.035	0.000	100.0#	0#	-4.29#
13		gamma-Chlordane (trans)		0.947	0.000	100.0#	0#	-4.50#
14		alpha-Chlordane (cis)		1.068	0.000	100.0#	0#	-4.68#
15		4,4'-DDE		0.999	0.000	100.0#	0#	-4.90#
16		Endosulfan I		0.989	0.000	100.0#	0#	-4.74#
17		Dieldrin		1.000	0.000	100.0#	0#	-5.06#
18		Endrin		0.979	0.000	100.0#	0#	-5.38#
19		4,4'-DDD		0.833	0.000	100.0#	0#	-5.52#
20		Endosulfan II		0.916	0.000	100.0#	0#	-5.59#
21		4,4'-DDT		0.959	0.000	100.0#	0#	-5.81#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.90#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.40#
24		Mirex	*	50.000	0.000	100.0#	0	-6.52#
25		Endosulfan Sulfate		0.881	0.000	100.0#	0#	-6.14#
26		Endrin Ketone		1.009	0.000	100.0#	0#	-6.56#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.45#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.72#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.24#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.84#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.51#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.68#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:12 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11465 L2.0ICV
Misc : WG1892874,ical
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.669	1.723	361.1E6	151.7E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:12 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11465 L2.0ICV
Misc : WG1892874,ical
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.988	5.550	1103.9E6	258.6E6	1821.988M3	2147.139
35) l2	toxaphene-2	5.117	5.577	1209.2E6	399.1E6	1949.835M3	2132.596
36) l2	toxaphene-3	5.355	5.912	1154.2E6	447.0E6	1898.270	2027.231
37) l2	toxaphene-4	5.741	6.332	1059.6E6	432.4E6	1808.484	2109.664
Sum	toxaphene-1			4526.9E6	1537.1E6	7478.577	8416.630
Average	toxaphene-1					1869.644	2104.157

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			4526.9E6	1537.1E6	7478.577	8416.630
Average	toxaphene-1					1869.644	2104.157

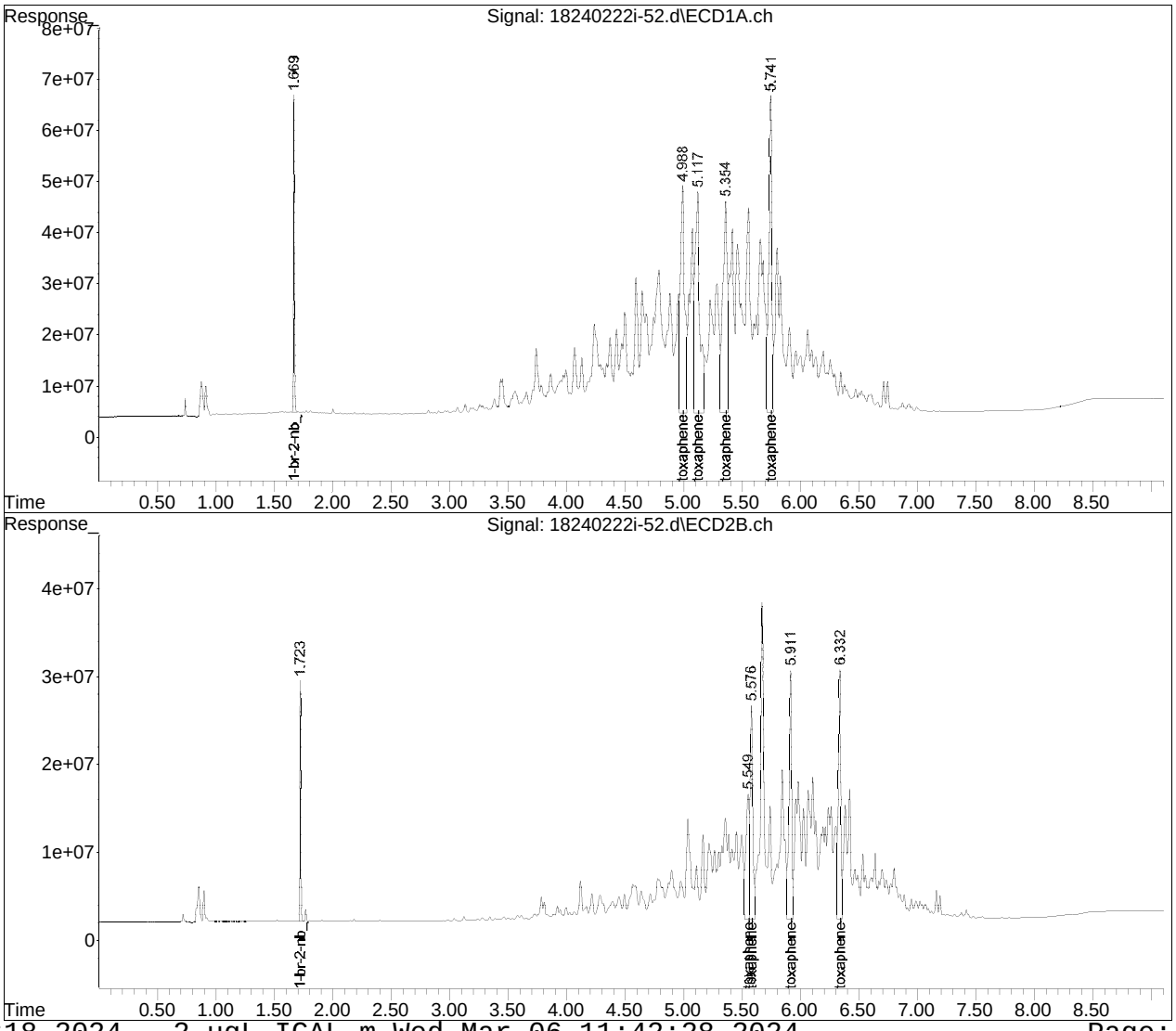
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240222ICAL\
Data File : 18240222i-52.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Mar 2024 1:12 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11465 L2.0ICV
Misc : WG1892874,ical
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 04 09:14:12 2024
Quant Method : I:\PEST\Pest18\2024\240222ICAL\pest18_2024_02_22_ugL_ICAL.m
Quant Title : pest
QLast Update : Mon Mar 04 09:13:31 2024
Response via : Initial Calibration
Integrator: ChemStation

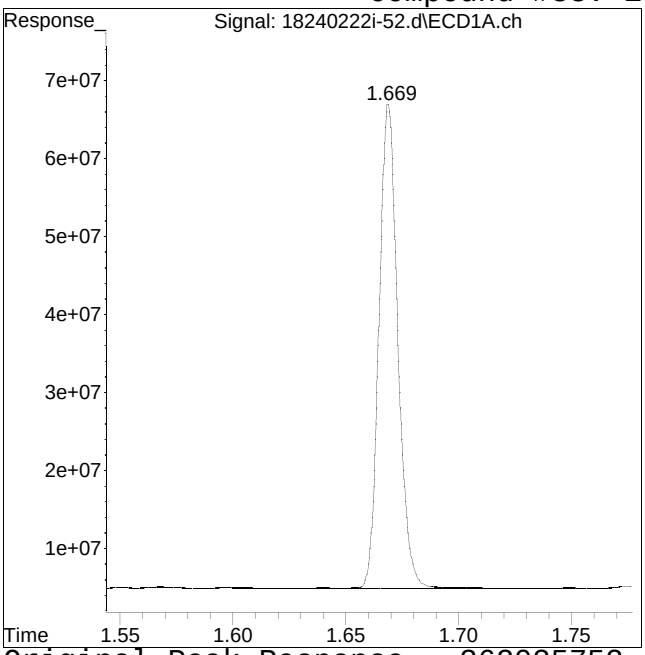
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

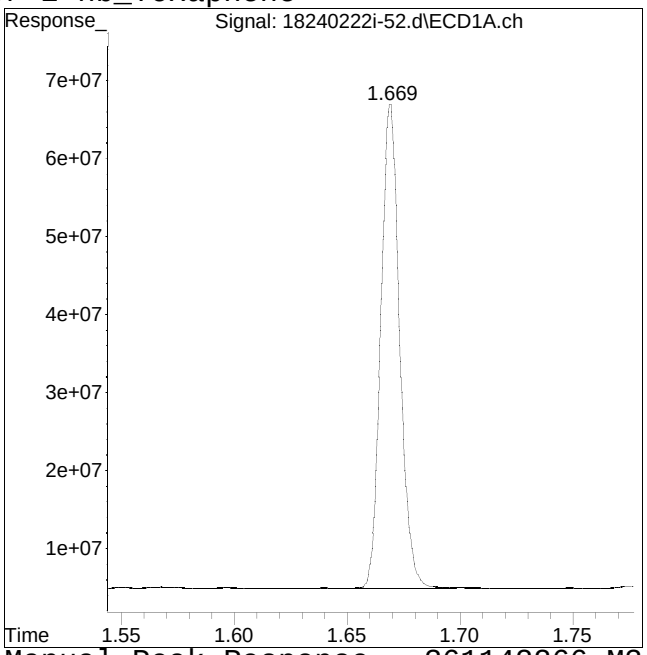


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-52.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:12 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11465 L2.0Quant Date : 3/4/2024 9:13 am

Compound #33: 1-br-2-nb_Toxaphene



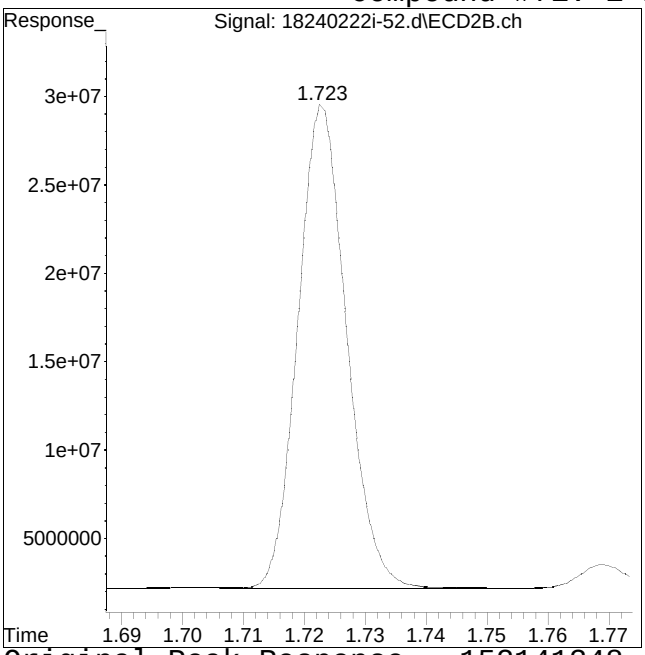


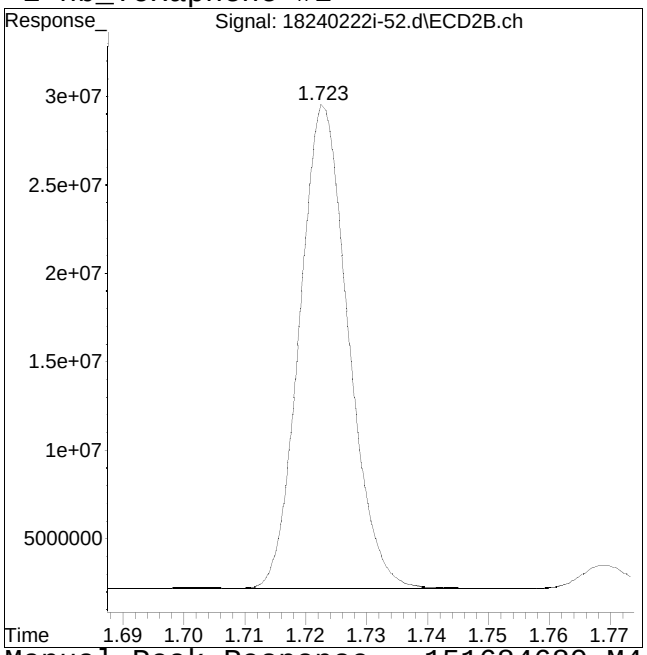
Original Peak Response = 362025752 Manual Peak Response = 361142266 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-52.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:12 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11465 L2.0Quant Date : 3/4/2024 9:13 am

Compound #71: 1-br-2-nb_Toxaphene #2



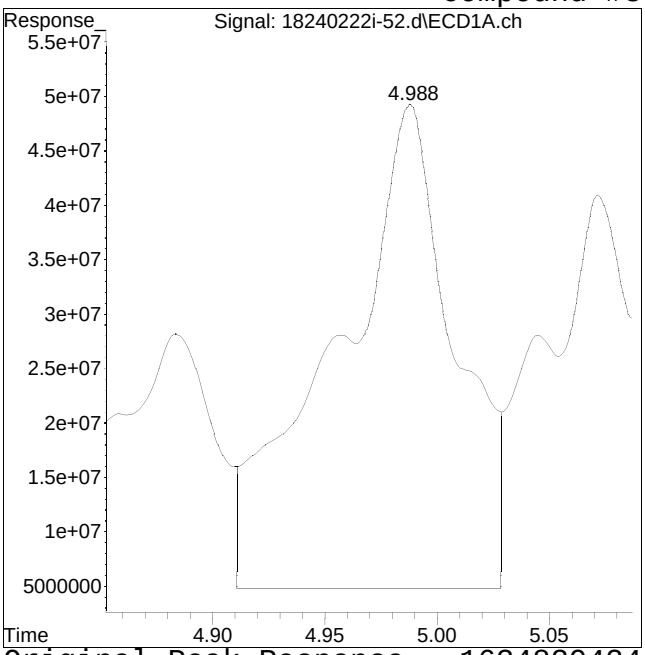


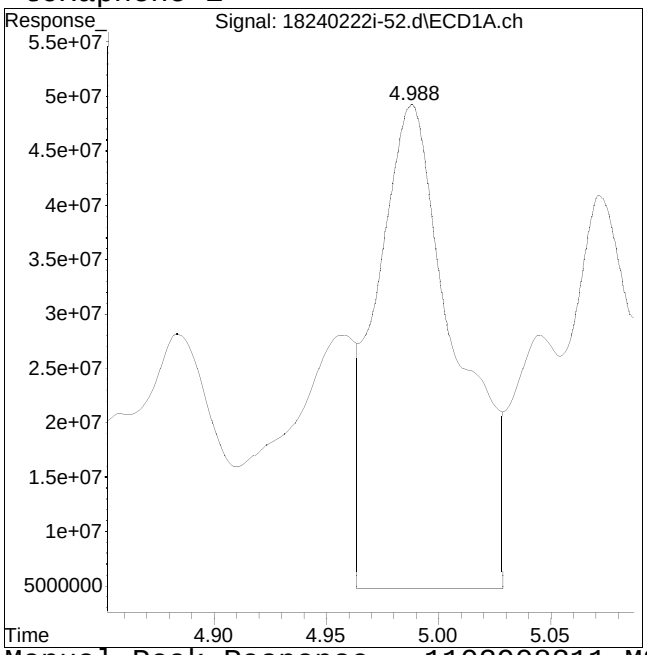
Original Peak Response = 152141348 Manual Peak Response = 151684680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-52.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:12 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11465 L2.0Quant Date : 3/4/2024 9:13 am

Compound #34: toxaphene-1



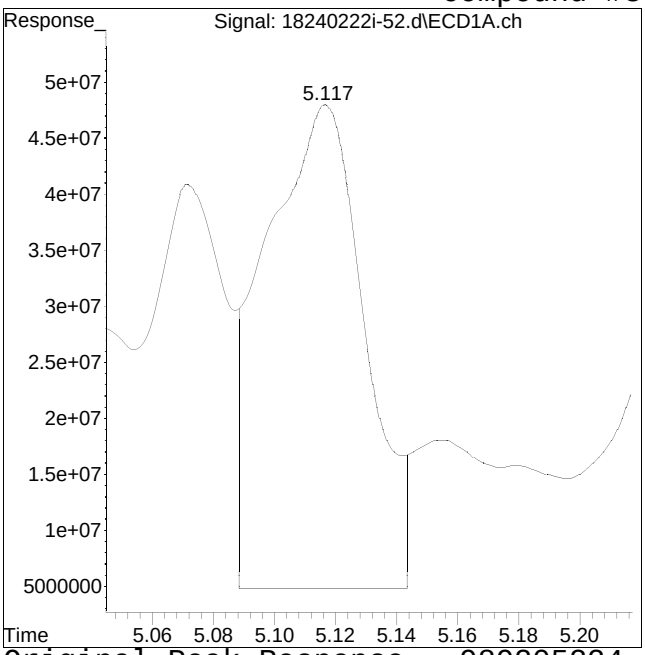


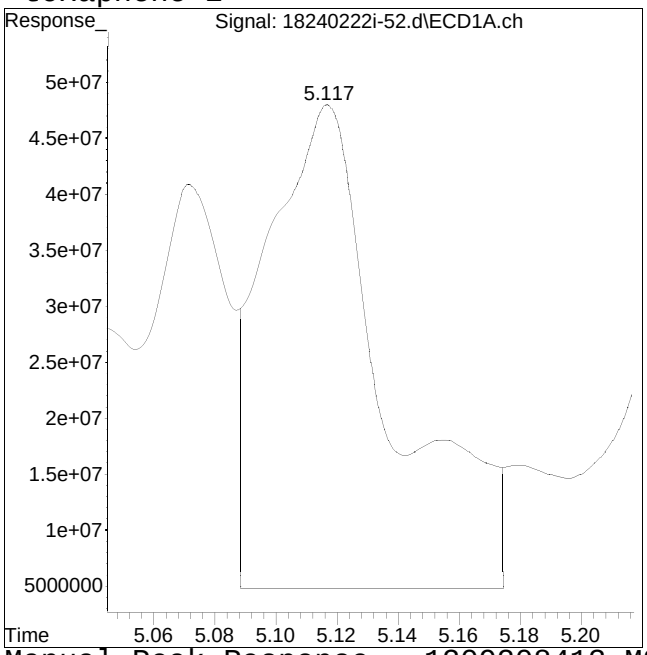
Original Peak Response = 1634829424 Manual Peak Response = 1103908211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240222QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240222i-52.d Operator : PEST18:ejl
Date Inj'd : 3/1/2024 1:12 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11465 L2.0Quant Date : 3/4/2024 9:13 am

Compound #35: toxaphene-2





Original Peak Response = 989205224 Manual Peak Response = 1209208413 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 18

Method Path : I:\PEST\Pest18\2024\240222ICAL\
Method File : pest18_2024_02_22_ugL_ICAL.m
Title : pest
Last Update : Mon Mar 04 09:13:31 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
3	Hexachlorobenzene	L	ug/l	50.0	51.813	3.6	2.00	1.713	-14.3
6	beta-BHC	L	ug/l	50.0	51.836	3.7	2.00	1.695	-15.2
11	Chlorpyrifos	L	ug/l	50.0	54.438	8.9	2.00	1.432	-28.4
22	Endrin Aldehyde	L	ug/l	50.0	50.540	1.1	1.00	0.795	-20.5
23	Methoxychlor	L	ug/l	50.0	56.272	12.5	3.00	2.401	-20.0
24	Mirex	L	ug/l	50.0	54.059	8.1	2.00	1.457	-27.1
27 S	Decachlorobiphenyl	L	ug/l	50.0	53.029	6.1	2.00	1.537	-23.2
29 L1	chlordane-1	L	ug/l	1000.0	1001.875	0.2	10.00	7.993	-20.1
30 L1	chlordane-3	L	ug/l	1000.0	1000.059	0.0	10.00	7.173	-28.3
31 L1	chlordane-4	L	ug/l	1000.0	997.193	-0.3	10.00	9.207	-7.9
32 L1	chlordane-5	L	ug/l	1000.0	997.099	-0.3	10.00	8.673	-13.3
41	Hexachlorobenzene #2	L	ug/l	50.0	52.706	5.4	2.00	1.656	-17.2
44	beta-BHC #2	L	ug/l	50.0	51.989	4.0	2.00	1.711	-14.4
49	Chlorpyrifos #2	L	ug/l	50.0	54.209	8.4	2.00	1.503	-24.9
60	Endrin Aldehyde #2	L	ug/l	50.0	50.154	0.3	1.00	0.817	-18.3
61	Methoxychlor #2	L	ug/l	50.0	55.737	11.5	3.00	2.371	-21.0
62	Mirex #2	L	ug/l	50.0	54.118	8.2	2.00	1.470	-26.5
65 S	Decachlorobiphenyl #2	L	ug/l	50.0	53.922	7.8	2.00	1.483	-25.8
67 L1	chlordane-1 #2	L	ug/l	1000.0	1004.193	0.4	10.00	8.903	-11.0
68 L1	chlordane-3 #2	L	ug/l	1000.0	1011.645	1.2	10.00	7.485	-25.1
69 L1	chlordane-4 #2	L	ug/l	1000.0	1005.899	0.6	10.00	8.684	-13.2
70 L1	chlordane-5 #2	L	ug/l	1000.0	1007.799	0.8	10.00	8.784	-12.2

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
3	Hexachlorobenzene	Linear	0.999522	0.000000	0.945849	0.0362428
6	beta-BHC	Linear	0.999569	0.000000	0.496154	0.0203104
11	Chlorpyrifos	Linear	0.996752	0.000000	0.442854	0.0300638
22	Endrin Aldehyde	Linear	0.999041	0.000000	0.686023	0.0133722
23	Methoxychlor	Linear	0.995736	0.000000	0.417086	0.0329002
24	Mirex	Linear	0.998114	0.000000	0.670781	0.04233
27 S	Decachlorobiphenyl	Linear	0.998626	0.000000	0.79952	0.0417026
29 L1	chlordane-1	Linear	0.998087	0.000000	0.0643074	0.019867
30 L1	chlordane-3	Linear	0.995969	0.000000	0.0379759	0.0141049
31 L1	chlordane-4	Linear	0.998975	0.000000	0.136001	0.042492
32 L1	chlordane-5	Linear	0.998798	0.000000	0.210362	0.0564583
41	Hexachlorobenzene #2	Linear	0.999138	0.000000	0.922341	0.0354326
44	beta-BHC #2	Linear	0.999489	0.000000	0.516665	0.0182892
49	Chlorpyrifos #2	Linear	0.996840	0.000000	0.476634	0.0271407
60	Endrin Aldehyde #2	Linear	0.999279	0.000000	0.69847	0.00984064
61	Methoxychlor #2	Linear	0.995967	0.000000	0.445431	0.0345049
62	Mirex #2	Linear	0.997898	0.000000	0.671786	0.0384094
65 S	Decachlorobiphenyl #2	Linear	0.998072	0.000000	0.694958	0.037203
67 L1	chlordane-1 #2	Linear	0.999079	0.000000	0.0327208	0.00695838
68 L1	chlordane-3 #2	Linear	0.996778	0.000000	0.0350982	0.0108803
69 L1	chlordane-4 #2	Linear	0.998936	0.000000	0.130516	0.0213527
70 L1	chlordane-5 #2	Linear	0.998915	0.000000	0.103229	0.0192873

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024
Response Via : Initial Calibration

Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.550	1.428	1.432	1.357	1.257	1.113	1.046	0.986	0.908	1.231	18.40
3)		Hexachloroben...			1.567	1.558	1.460	1.345	1.166	1.078	1.021	0.960	1.269	19.26
4)		alpha-BHC		1.727	1.624	1.625	1.567	1.509	1.437	1.360	1.314	1.252	1.490	10.77
5)		gamma-BHC (li...	1.736	1.665	1.559	1.548	1.499	1.421	1.329	1.245	1.193	1.138	1.433	14.14
6)		beta-BHC		0.907	0.842	0.825	0.793	0.720	0.618	0.572	0.547		0.728	18.55
7)		delta-BHC		1.660	1.536	1.526	1.499	1.405	1.337	1.262	1.220	1.174	1.402	11.79
8)		Heptachlor		1.716	1.587	1.554	1.531	1.408	1.276	1.161	1.095	1.026	1.373	17.73
9)		Aldrin		1.652	1.522	1.504	1.476	1.375	1.277	1.169	1.105	1.046	1.347	15.56
10)		Alachlor			0.287	0.277	0.286	0.262	0.216	0.188	0.170		0.241	20.31
11)		Chlorpyrifos					0.839	0.747	0.614	0.533	0.490		*L	0.993
7														
12)		Heptachlor Ep...		1.683	1.534	1.500	1.499	1.364	1.224	1.107	1.041	0.985	1.326	18.63
13)		gamma-Chlorda...		1.548	1.542	1.396	1.384	1.257	1.137	1.028	0.977	0.943	1.246	18.92
14)		alpha-Chlorda...		1.765	1.657	1.587	1.576	1.456	1.295	1.163	1.099	1.063	1.407	18.46
15)		4,4'-DDE		1.719	1.584	1.512	1.535	1.389	1.316	1.181	1.117	1.078	1.381	16.23
16)		Endosulfan I		1.611	1.493	1.464	1.464	1.307	1.178	1.067	1.008	0.967	1.284	18.47

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024
Response Via : Initial Calibration

Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)		Dieldrin		1.584	1.531	1.474	1.466	1.345	1.253	1.131	1.076	1.038	1.322	15.57
18)		Endrin		1.634	1.555	1.497	1.506	1.367	1.268	1.145	1.084	1.049	1.345	16.17
19)		4,4'-DDD		1.305	1.255	1.222	1.225	1.117	1.056	0.944	0.901	0.884	1.101	14.71
20)		Endosulfan II		1.497	1.399	1.383	1.368	1.230	1.130	1.008	0.955	0.922	1.210	17.74
21)		4,4'-DDT		1.291	1.215	1.247	1.090	1.120	1.133	1.018	0.948	0.958	1.113	11.06
22)		Endrin Aldehyde		1.223	1.161	1.131	1.135	1.041	0.955	0.848	0.804	0.786	1.009	16.49
23)		Methoxychlor				0.875	0.885	0.770	0.662	0.556	0.514		*L	0.991
5														
24)		Mirex					1.364	1.203	1.022	0.869	0.811	0.798	*L	0.996
2														
25)		Endosulfan Su...		1.500	1.400	1.328	1.328	1.183	1.057	0.940	0.887		1.203	18.56
26)		Endrin Ketone		1.642	1.535	1.502	1.500	1.348	1.227	1.069	1.003	0.971	1.311	19.24
27)	s	Decachlorobip...						1.366	1.146	0.981	0.924	0.935	1.070	17.51
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1				0.101	0.089	0.077	0.075	0.069	0.065		*L	0.996
9														
30)	l1	chlordane-3				0.070	0.067	0.055	0.050	0.045	0.041		*L	0.994
2														
31)	l1	chlordane-4				0.242	0.210	0.176	0.174	0.158	0.147		*L	0.996
5														
32)	l1	chlordane-5				0.354	0.314	0.271	0.267	0.242	0.226		*L	0.996
3														

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024
Response Via : Initial Calibration

Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.057	0.075		0.069	0.063	0.061			0.065	10.71
35)	l2	toxaphene-2			0.052	0.049		0.045	0.041	0.040			0.046	11.10
36)	l2	toxaphene-4			0.048	0.043		0.040	0.036	0.036			0.040	12.24
37)	l2	toxaphene-5			0.056	0.053		0.047	0.042	0.041			0.048	13.77

Signal #2 Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.344	1.220	1.216	1.199	1.114	1.048	1.021	0.999	0.968	1.125	11.24
3)		Hexachloroben...			1.339	1.313	1.252	1.178	1.072	1.030	1.013	0.996	1.149	12.15
4)		alpha-BHC		1.526	1.434	1.470	1.415	1.421	1.417	1.397	1.392	1.387	1.429	3.10
5)		gamma-BHC (li...	1.544	1.512	1.394	1.404	1.352	1.323	1.295	1.267	1.257	1.249	1.360	7.65
6)		beta-BHC		0.792	0.735	0.746	0.694	0.645	0.581	0.562	0.548		0.663	13.99
7)		delta-BHC		1.504	1.369	1.402	1.357	1.334	1.316	1.297	1.293	1.288	1.351	5.11
8)		Heptachlor		1.468	1.382	1.367	1.328	1.317	1.247	1.191	1.154	1.109	1.285	9.15
9)		Aldrin		1.385	1.275	1.258	1.266	1.229	1.214	1.157	1.132	1.110	1.225	6.91

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024
Response Via : Initial Calibration

Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor			0.251	0.240	0.246	0.232	0.200	0.180	0.168		0.217	15.58
11)	Chlorpyrifos					0.798	0.703	0.587	0.532	0.492		*L	0.996
3													
12)	Heptachlor Ep...		1.383	1.311	1.301	1.264	1.215	1.154	1.085	1.045	1.011	1.197	10.86
13)	gamma-Chlorda...		1.305	1.227	1.176	1.180	1.087	1.053	0.996	0.976	0.975	1.108	10.76
14)	alpha-Chlorda...		1.443	1.335	1.296	1.311	1.228	1.173	1.097	1.070	1.071	1.225	10.77
15)	4,4'-DDE		1.314	1.267	1.217	1.279	1.212	1.232	1.146	1.119	1.117	1.211	5.86
16)	Endosulfan I		1.323	1.239	1.199	1.204	1.148	1.093	1.019	0.983	0.957	1.130	11.08
17)	Dieldrin		1.308	1.240	1.178	1.223	1.160	1.148	1.074	1.044	1.029	1.156	8.14
18)	Endrin		1.393	1.271	1.221	1.254	1.180	1.162	1.077	1.038	1.023	1.180	10.23
19)	4,4'-DDD		1.120	1.034	1.047	1.074	0.983	0.993	0.918	0.894	0.903	0.996	8.01
20)	Endosulfan II		1.294	1.202	1.139	1.145	1.067	1.027	0.949	0.914	0.901	1.071	12.69
21)	4,4'-DDT		1.227	1.174	1.124	1.162	1.096	1.092	1.003	0.976	0.998	1.095	7.99
22)	Endrin Aldehyde		1.131	1.045	0.978	0.965	0.902	0.867	0.801	0.773	0.770	0.915	13.75
23)	Methoxychlor				0.781	0.742	0.637	0.577	0.513	0.483		*L	0.996
5													
24)	Mirex					1.052	0.925	0.829	0.736	0.708	0.726	*L	0.998
8													
25)	Endosulfan Su...		1.206	1.125	1.075	1.102	1.004	0.960	0.880	0.849		1.025	12.12

Response Factor Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024
Response Via : Initial Calibration

Calibration Files
1 =15240612i-03.D 2 =15240612i-04.D 3 =15240612i-05.D 4 =15240612i-06.D 5 =15240612i-07.D
7 =15240612i-08.D 8 =15240612i-09.D 9 =15240612i-10.D 10 =15240612i-11.D 11 =15240612i-12.D

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)		Endrin Ketone	1.313	1.250	1.203	1.242	1.146	1.098	0.992	0.954	0.950		1.128	12.12
27)	s	Decachlorobip...						0.989	0.887	0.784	0.772	0.816	0.850	10.59
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1				0.089	0.084	0.072	0.073	0.066	0.061		0.074	14.29
30)	l1	chlordane-3				0.051	0.050	0.043	0.043	0.038	0.034		0.043	15.47
31)	l1	chlordane-4				0.183	0.165	0.141	0.146	0.130	0.121		0.148	15.62
32)	l1	chlordane-5				0.140	0.131	0.112	0.115	0.102	0.094		0.116	14.96
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1				0.040	0.038	0.034	0.032	0.032			0.035	10.20
35)	l2	toxaphene-2				0.073	0.071	0.066	0.060	0.061			0.066	8.78
36)	l2	toxaphene-4				0.052	0.046	0.041	0.038	0.039			0.043	12.80
37)	l2	toxaphene-5				0.043	0.041	0.037	0.034	0.035			0.038	9.65

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:29
Operator : Pest15:kb
Sample : pem15240612i-01,42e,,pp 11529 - (Sig #1); pem-01,42e,,pp 11529 - (Sig #2)
Misc : WG1933928,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:43:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.232	1.324	98871697	160.7E6	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	3.632	4.495	1229245	1265835	0.225M4	0.163M4
18)	Endrin	4.182	4.948	303.2E6	451.5E6	57.004	59.523
19)	4,4'-DDD	4.297	5.069	2571115	4093071	0.591	0.639M4
21)	4,4'-DDT	4.594	5.347	507.5E6	821.5E6	115.257	116.734M4
22)	Endrin Aldeh	4.848	5.442	1175381	1358153	0.294	0.231M4
26)	Endrin Keton	5.472	6.087	3096923	3977519	0.597	0.549M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:29
Operator : Pest15:kb
Sample : pem15240612i-01,42e,,pp 11529 - (Sig #1); pem-01,42e,,pp 11529 - (Sig #2)
Misc : WG1933928,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:43:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

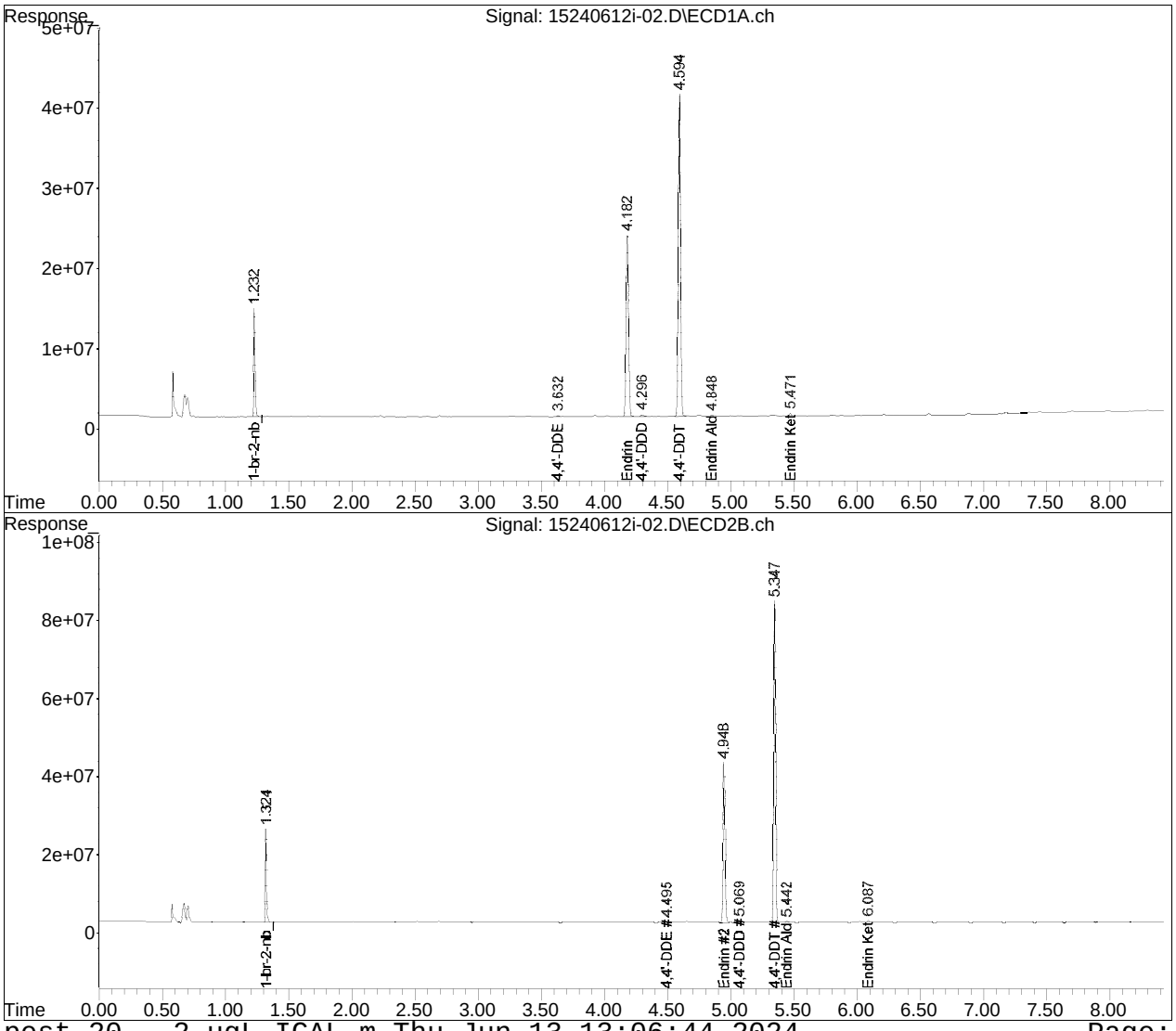
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:29
Operator : Pest15:kb
Sample : pem15240612i-01,42e,,pp 11529 - (Sig #1); pem-01,42e,,pp 11529 - (
Misc : WG1933928,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:43:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

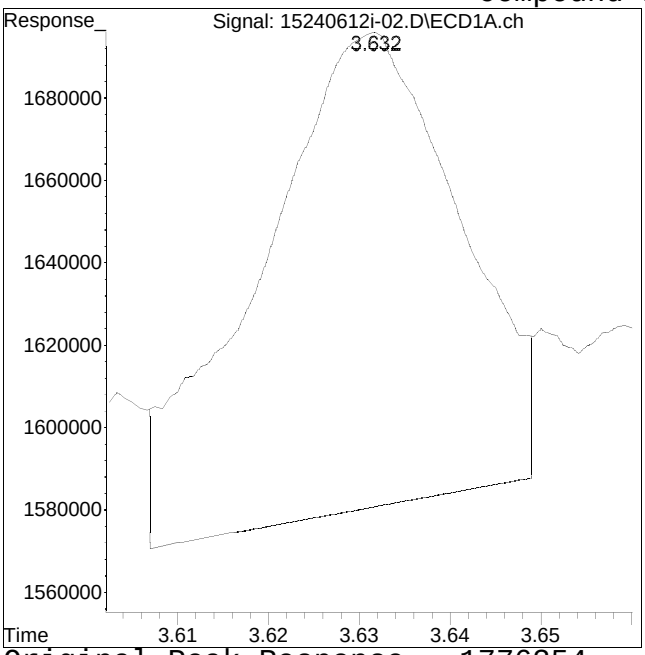
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



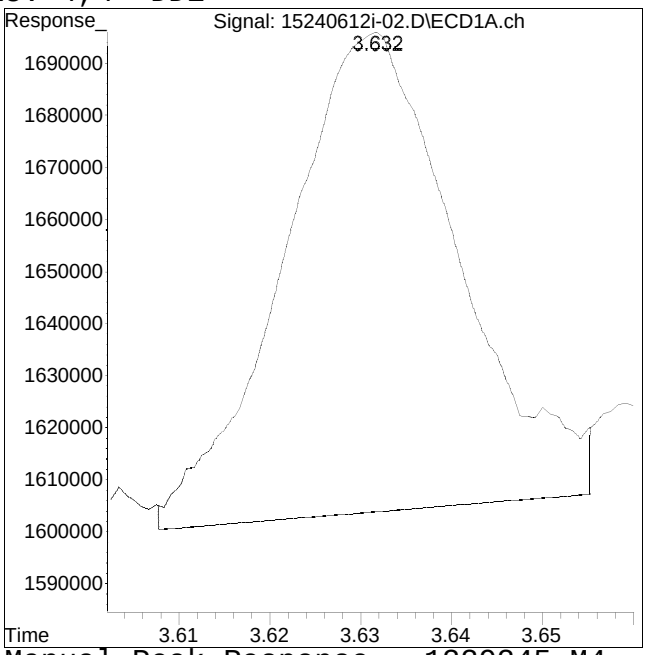
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #15: 4,4'-DDE



Original Peak Response = 1776354



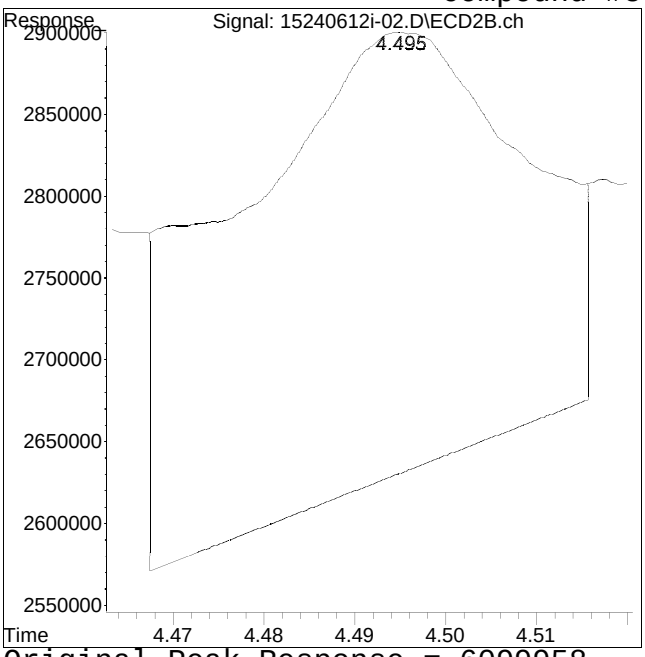
Manual Peak Response = 1229245 M4

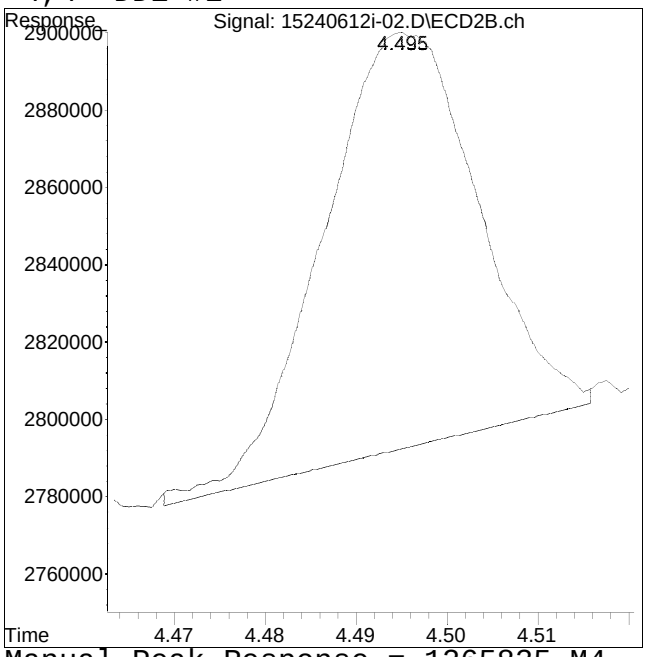
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #53: 4,4'-DDE #2



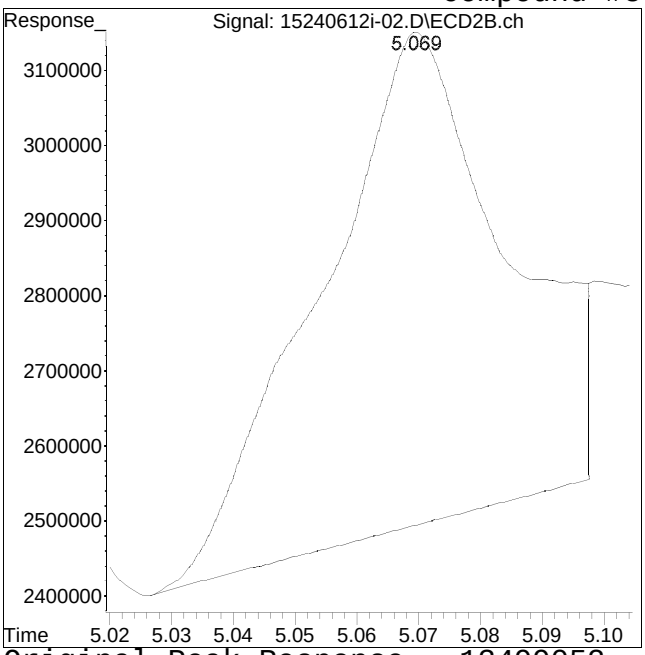


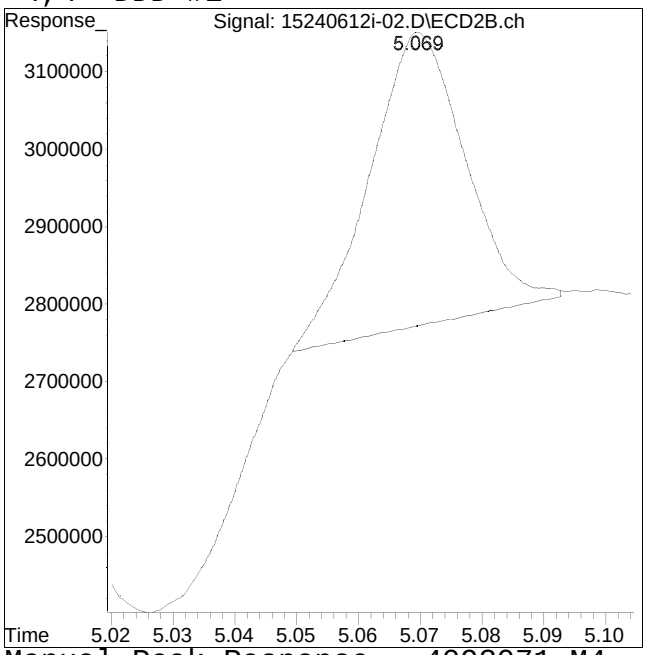
Original Peak Response = 6099958 Manual Peak Response = 1265835 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #57: 4,4'-DDD #2



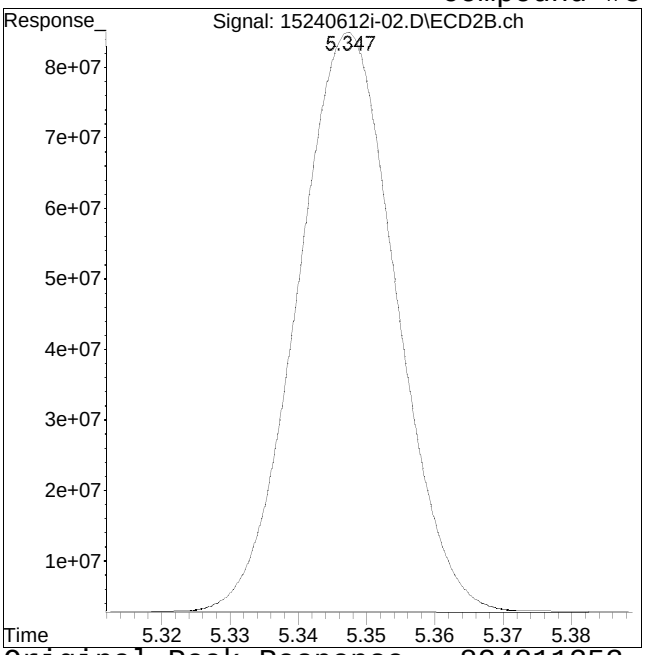


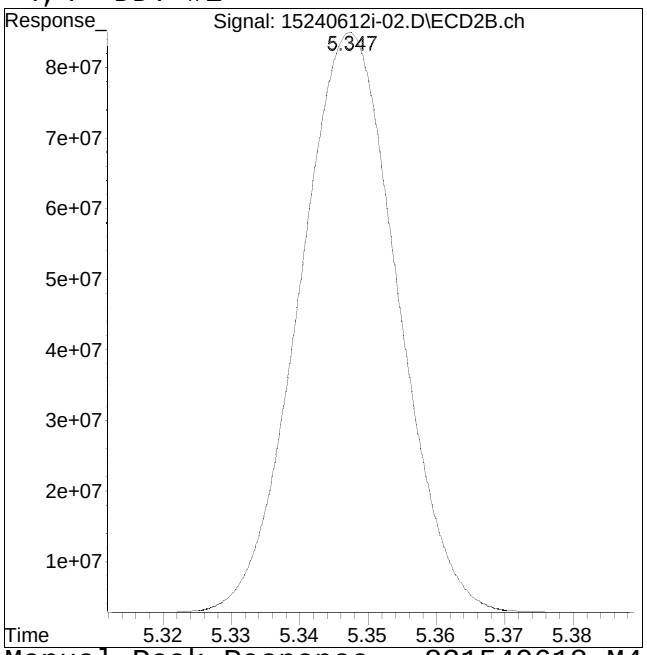
Original Peak Response = 13499052 Manual Peak Response = 4093071 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #59: 4,4'-DDT #2



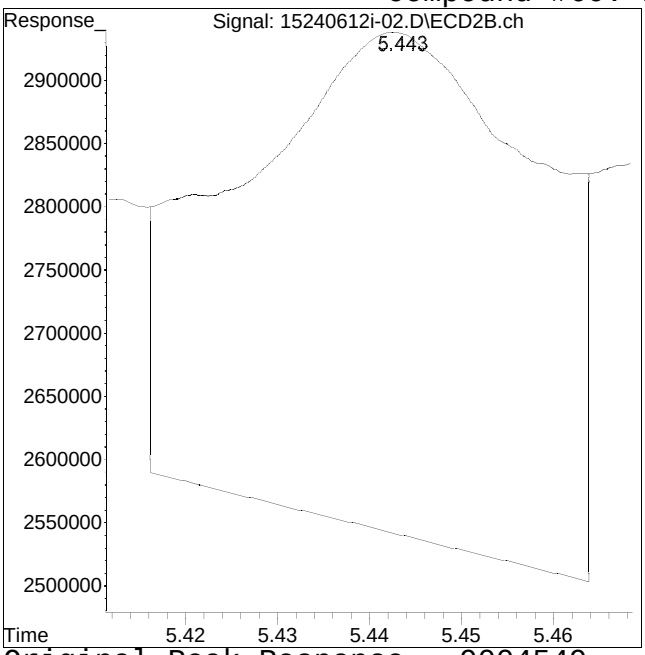


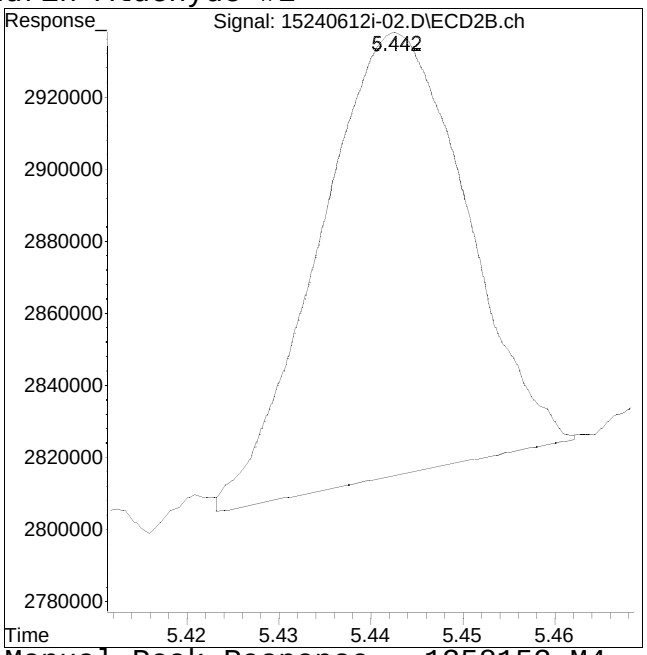
Original Peak Response = 824811353 Manual Peak Response = 821540618 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #60: Endrin Aldehyde #2



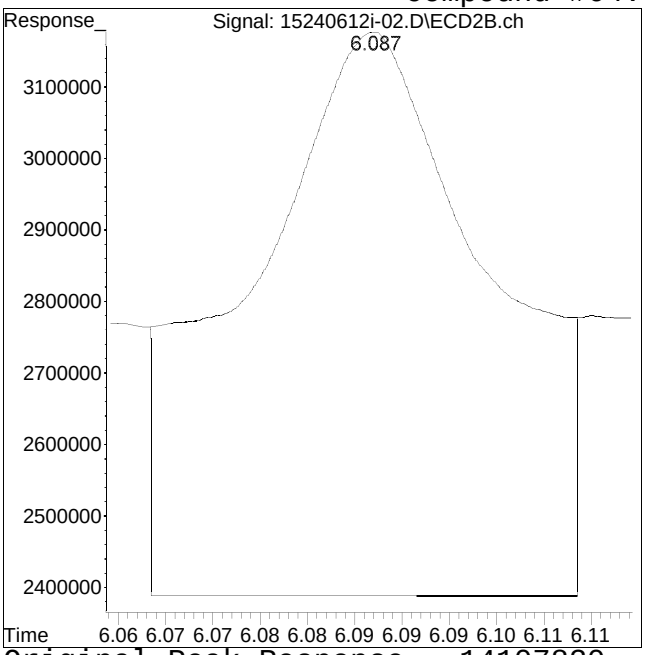


Original Peak Response = 9004549 Manual Peak Response = 1358153 M4
M4 = Poor automated baseline construction.

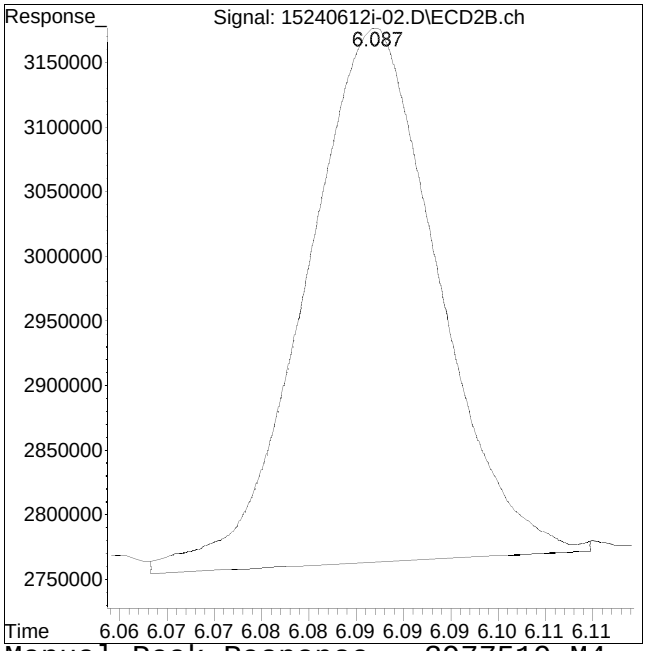
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-02.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:29 Instrument : Pest 15
Sample : pem15240612i-01,42e,,pp 11Quant Date : 6/13/2024 12:43 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 14107830



Manual Peak Response = 3977519 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:40
Operator : Pest15:kb
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:25:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.237	1.328	95371952	154.6E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.132	2.557	3310429	4771976	0.620	0.576
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:40
Operator : Pest15:kb
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:25:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

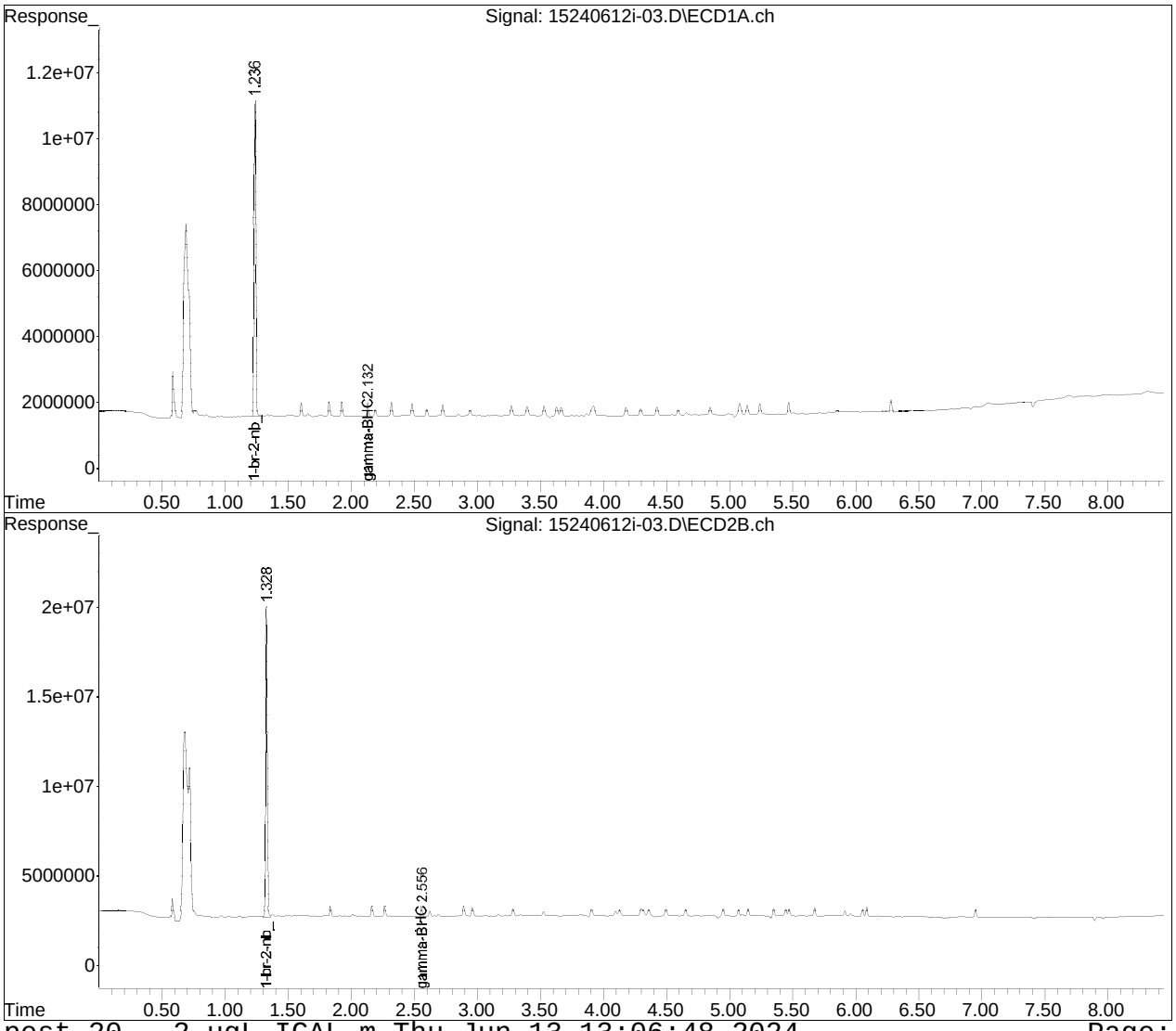
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:40
Operator : Pest15:kb
Sample : il1pest,42e,,pp 11572 L0.0005
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:25:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:25:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612Q	Method	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-03.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 19:40	Instrument	: Pest 15
Sample	: il1pest,42e,,pp 11572 L0.0	Quant Date	: 6/13/2024 9:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:51
Operator : Pest15:kb
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:23:13 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.236	1.328	94030508	150.3E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.604	1.835	5830836	8080019	1.302	1.224
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.60%#	2.45%#
27) s	Decachlorobi	6.281	6.949	6487192	7252963	1.371	1.270
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.74%#	2.54%#
	Target Compounds						
3)	Hexachlorobe	1.825	2.165	6369073	8852192	1.334	1.282
4)	alpha-BHC	1.926	2.266	6496405	9173428	1.182	1.077
5)	gamma-BHC (l	2.131	2.556	6261693	9089857	1.218	1.148
6)	beta-BHC	2.190	2.621	3411491	4761534	1.335	1.256
7)	delta-BHC	2.319	2.892	6243711	9039142	1.212	1.129
8)	Heptachlor	2.482	2.960	6452758	8821865	1.290	1.163
9)	Aldrin	2.726	3.282	6213013	8323478	1.262	1.149
10)	Alachlor	2.847	3.166	1115632	1514396	1.290	1.206
11)	Chlorpyrifos	2.941	3.524	3438482	5517049	1.354	1.426
12)	Heptachlor E	3.270	3.905	6329289	8311814	1.313	1.179M4
13)	gamma-Chlord	3.395	4.125	5821967	7841258	1.282	1.204M4
14)	alpha-Chlord	3.529	4.297	6639510	8674621	1.296M4	1.205
15)	4,4'-DDE	3.629	4.494	6466624	7898214	1.284	1.096
16)	Endosulfan I	3.664	4.358	6057693	7955019	1.295	1.197
17)	Dieldrin	3.924	4.650	5957544	7863373	1.228	1.150
18)	Endrin	4.179	4.948	6145219	8371215	1.248	1.208M4
19)	4,4'-DDD	4.294	5.069	4910036	6729325	1.214	1.142M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:51
Operator : Pest15:kb
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:23:13 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)		Endosulfan I	4.424	5.145	5629965	7780570	1.275	1.241
21)		4,4'-DDT	4.591	5.347	4855759	7377222	1.183	1.139
22)		Endrin Aldeh	4.845	5.443	4601298	6796982	1.245	1.274
23)		Methoxychlor	5.087	5.914	3649850	4928099	1.367	1.314
24)		Mirex	5.140	6.052	5696554	6790051	1.371	1.279
25)		Endosulfan S	5.241	5.672	5641793	7247216	1.318	1.229
26)		Endrin Keton	5.470	6.086	6175208	7892032	1.293	1.189
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

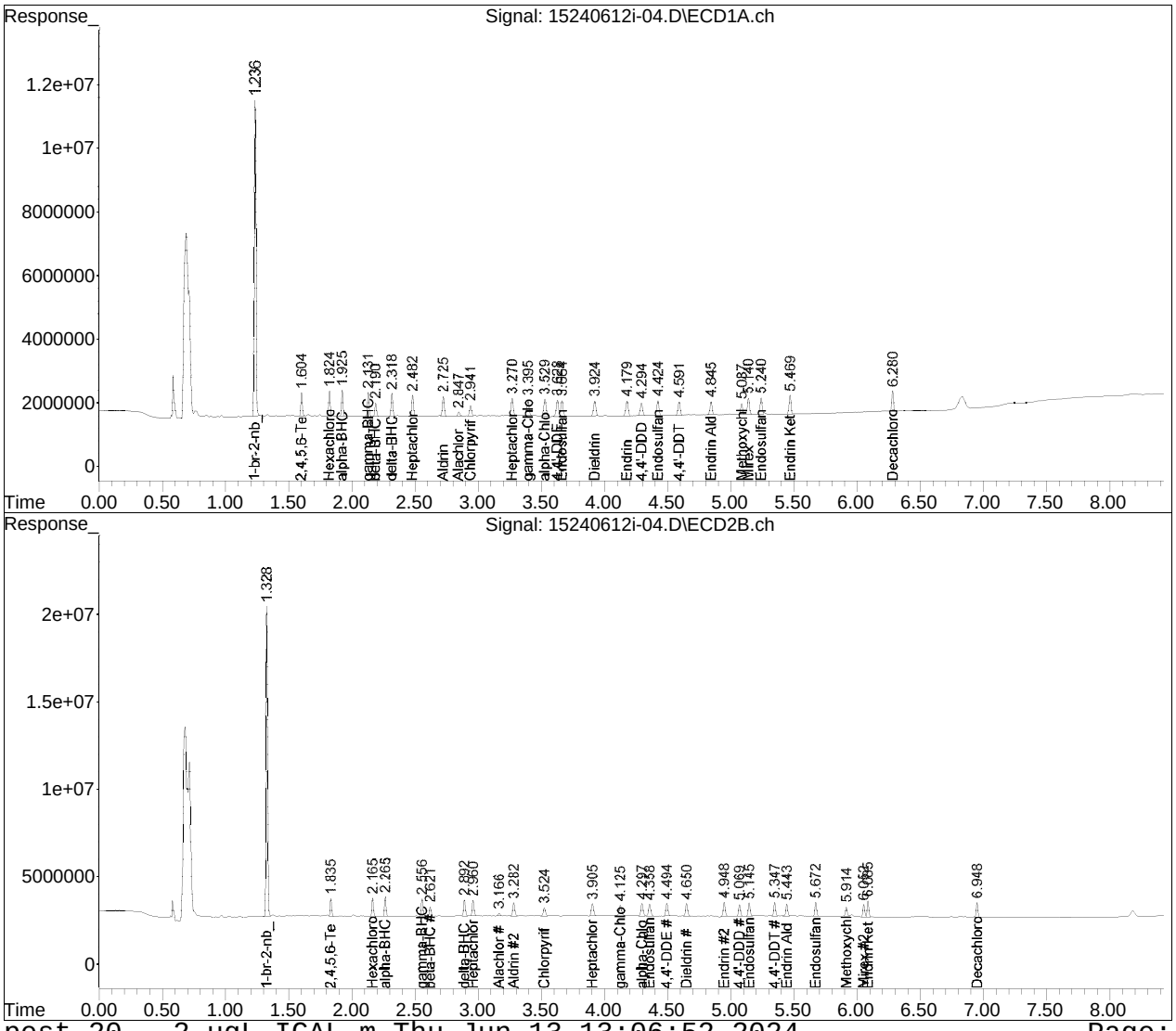
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 19:51
Operator : Pest15:kb
Sample : il2pest,42e,,pp 11571 L0.001
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:23:13 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation

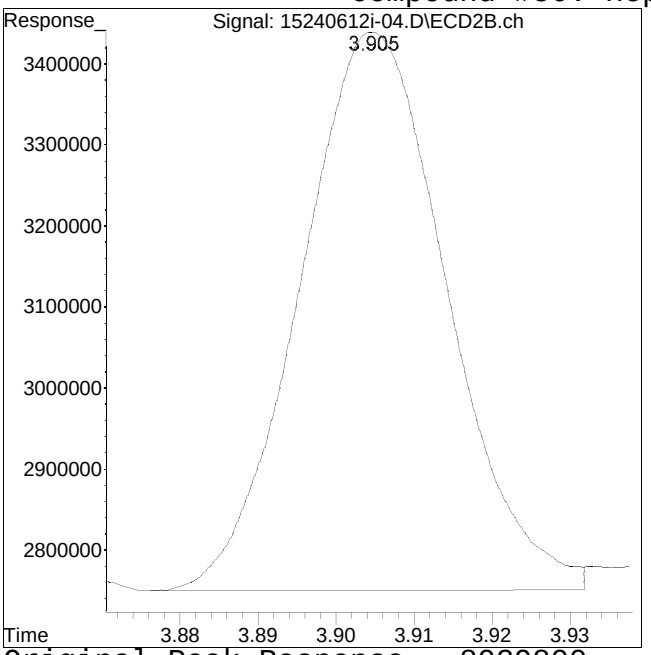
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



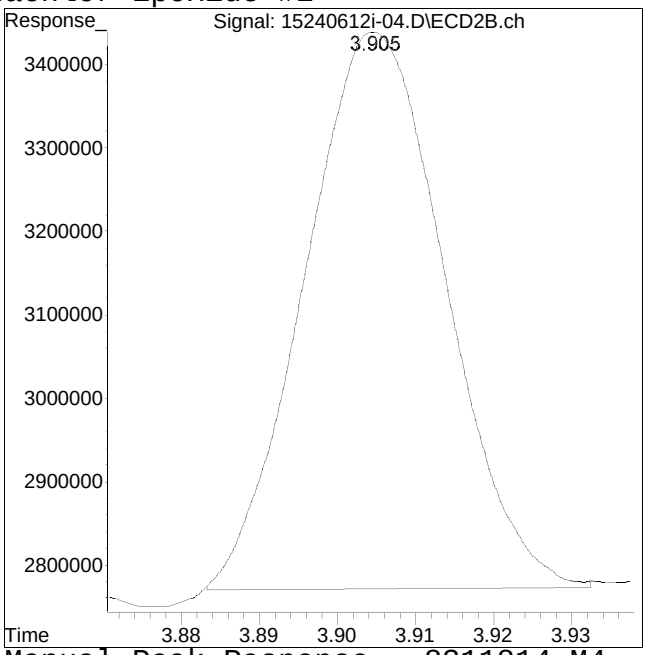
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-04.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:51 Instrument : Pest 15
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/13/2024 9:23 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 8939800



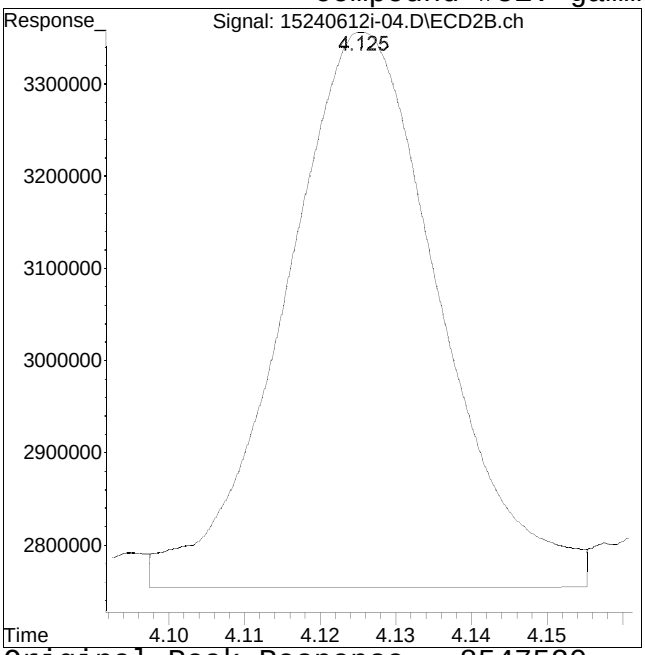
Manual Peak Response = 8311814 M4

M4 = Poor automated baseline construction.

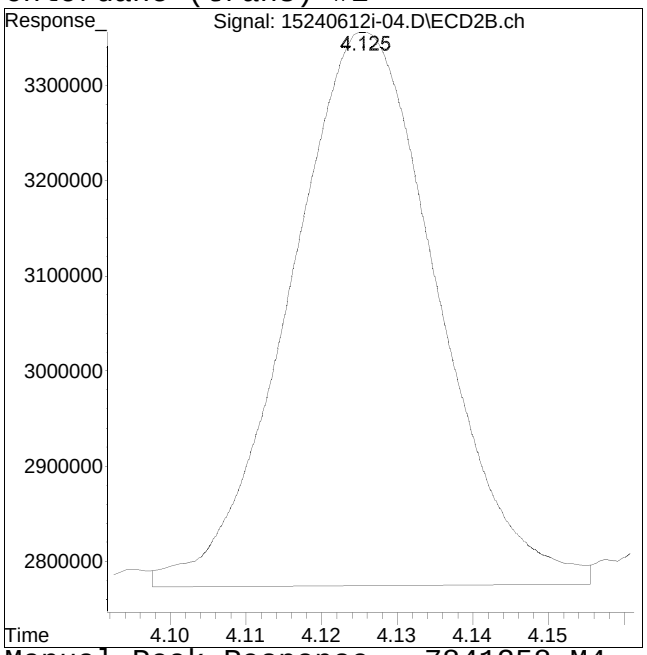
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-04.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:51 Instrument : Pest 15
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/13/2024 9:23 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 8547520



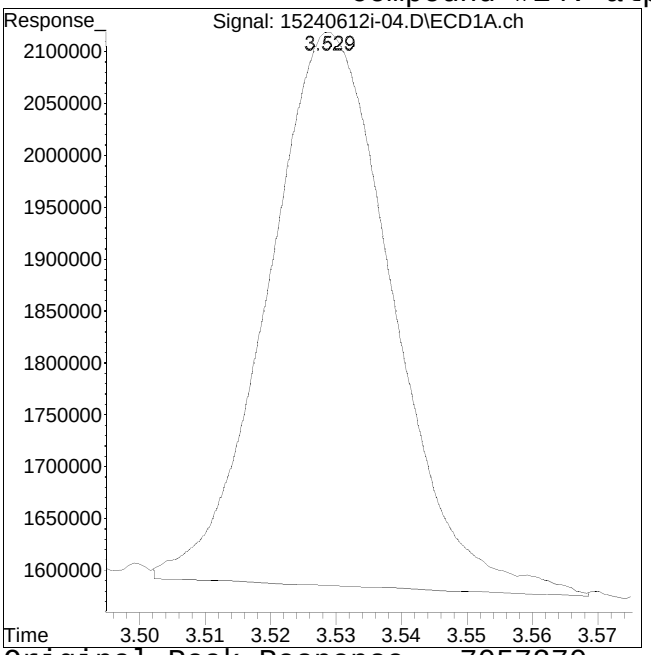
Manual Peak Response = 7841258 M4

M4 = Poor automated baseline construction.

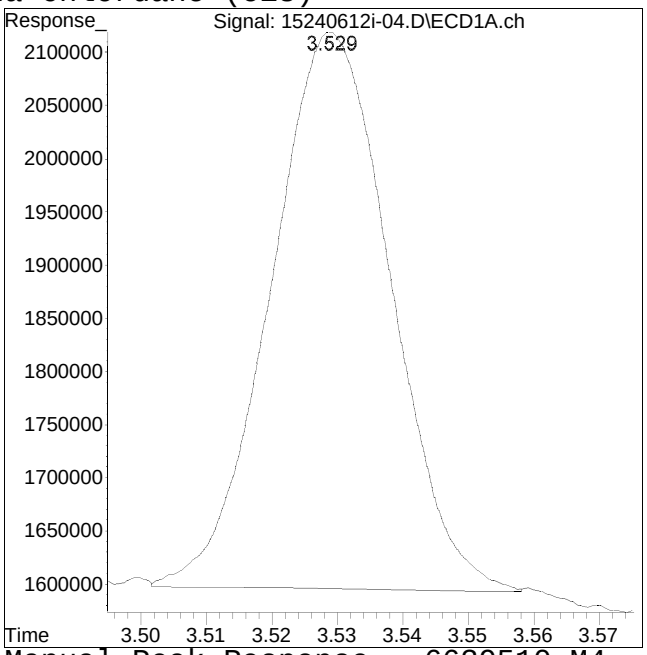
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-04.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:51 Instrument : Pest 15
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/13/2024 9:23 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 7057270



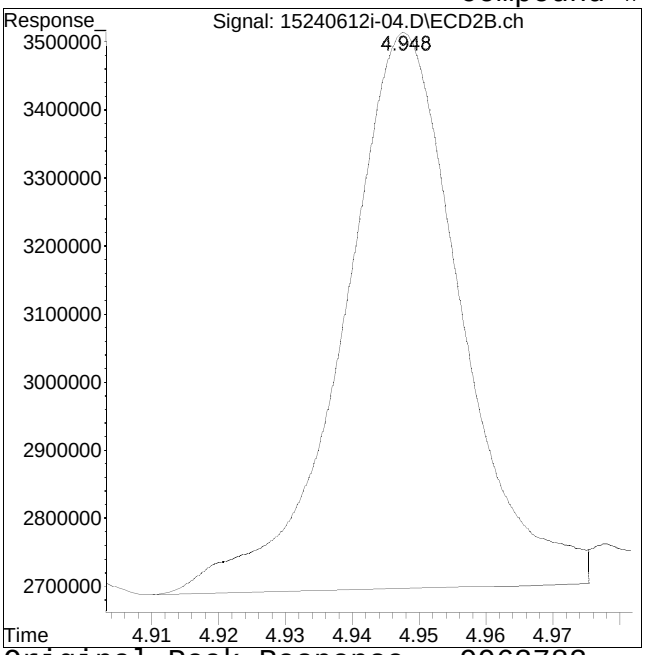
Manual Peak Response = 6639510 M4

M4 = Poor automated baseline construction.

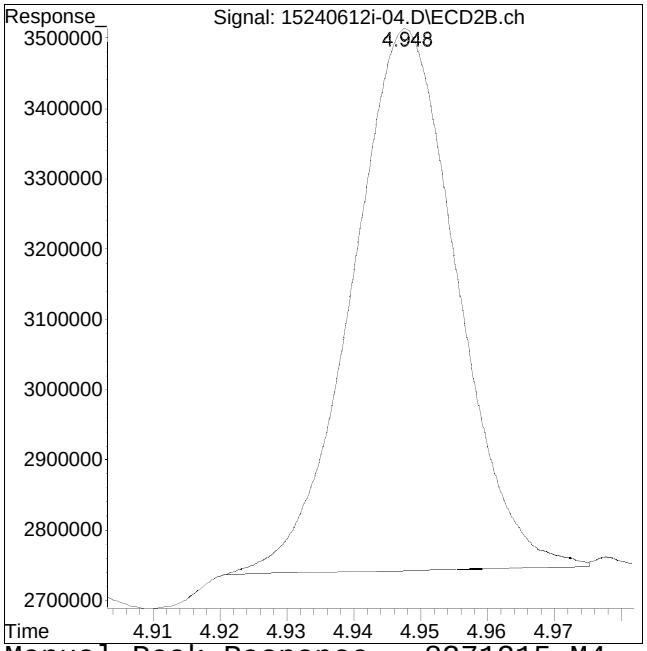
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-04.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:51 Instrument : Pest 15
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/13/2024 9:23 am

Compound #56: Endrin #2



Original Peak Response = 9963783



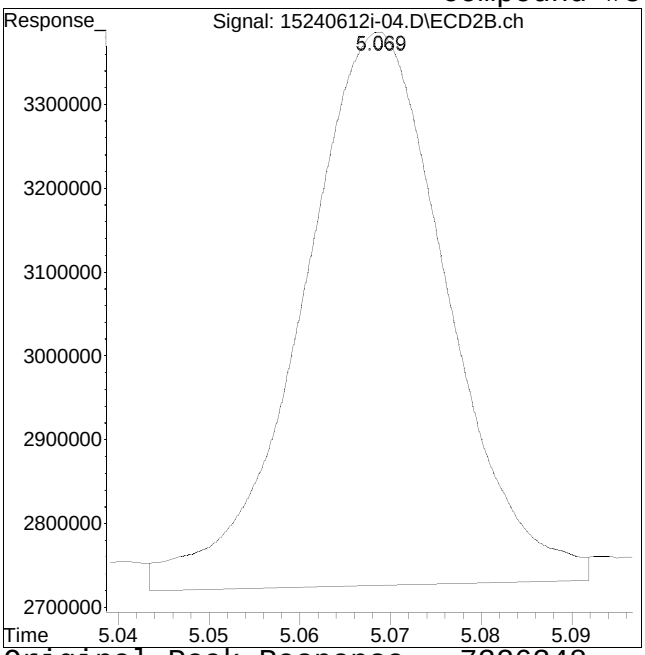
Manual Peak Response = 8371215 M4

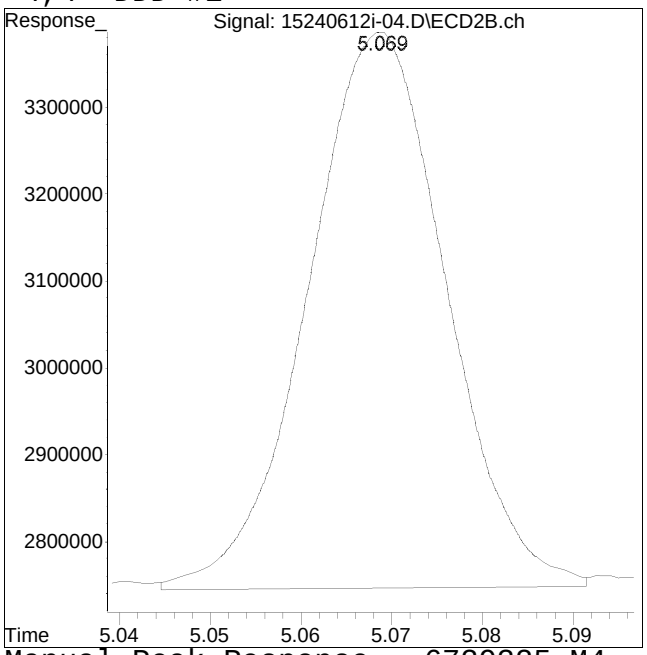
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-04.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 19:51 Instrument : Pest 15
Sample : il2pest,42e,,pp 11571 L0.0Quant Date : 6/13/2024 9:23 am

Compound #57: 4,4'-DDD #2





Original Peak Response = 7326348 Manual Peak Response = 6729325 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:03
Operator : Pest15:kb
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:20:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.233	1.326	95388967	153.7E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.603	1.833	10894065	14997324	2.468	2.258
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.94%#	4.52%#
27) s	Decachlorobi	6.281	6.948	12522115	14218563	2.728	2.513
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.46%#	5.03%#
	Target Compounds						
3)	Hexachlorobe	1.823	2.163	11956124	16461188	2.554	2.387
4)	alpha-BHC	1.925	2.264	12390651	17634825	2.259	2.029
5)	gamma-BHC (l	2.130	2.555	11894338	17139883	2.328	2.134
6)	beta-BHC	2.189	2.620	6422023	9029804	2.565	2.385
7)	delta-BHC	2.318	2.891	11723942	16827368	2.283	2.064
8)	Heptachlor	2.481	2.959	12110236	16991010	2.455	2.221
9)	Aldrin	2.724	3.282	11617729	15671956	2.381	2.133
10)	Alachlor	2.847	3.166	2186393	3091343	2.582	2.480
11)	Chlorpyrifos	2.940	3.523	6536455	9833193	2.639	2.574
12)	Heptachlor E	3.269	3.904	11704361	16111600	2.463	2.272M4
13)	gamma-Chlord	3.394	4.125	11764212	15082863	2.658	2.307
14)	alpha-Chlord	3.528	4.296	12644066	16406334	2.511M4	2.266
15)	4,4'-DDE	3.628	4.494	12085053	15574715	2.429	2.132
16)	Endosulfan I	3.664	4.357	11395103	15237168	2.472	2.282
17)	Dieldrin	3.924	4.650	11685054	15249493	2.441	2.210M4
18)	Endrin	4.178	4.947	11868641	15620854	2.442	2.236M4
19)	4,4'-DDD	4.293	5.068	9573654	12709736	2.390	2.125M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:03
Operator : Pest15:kb
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:20:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	4.423	5.145	10673219	14777123	2.449	2.356
21)	4,4'-DDT	4.591	5.347	9274888	14426945	2.265	2.205
22)	Endrin Aldeh	4.844	5.443	8857515	12842892	2.426	2.415
23)	Methoxychlor	5.086	5.914	6987086	9589675	2.691	2.593
24)	Mirex	5.140	6.052	10936503	13220413	2.710	2.513
25)	Endosulfan S	5.240	5.672	10683378	13834311	2.544	2.344
26)	Endrin Keton	5.469	6.085	11711553	15372748	2.492	2.307
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

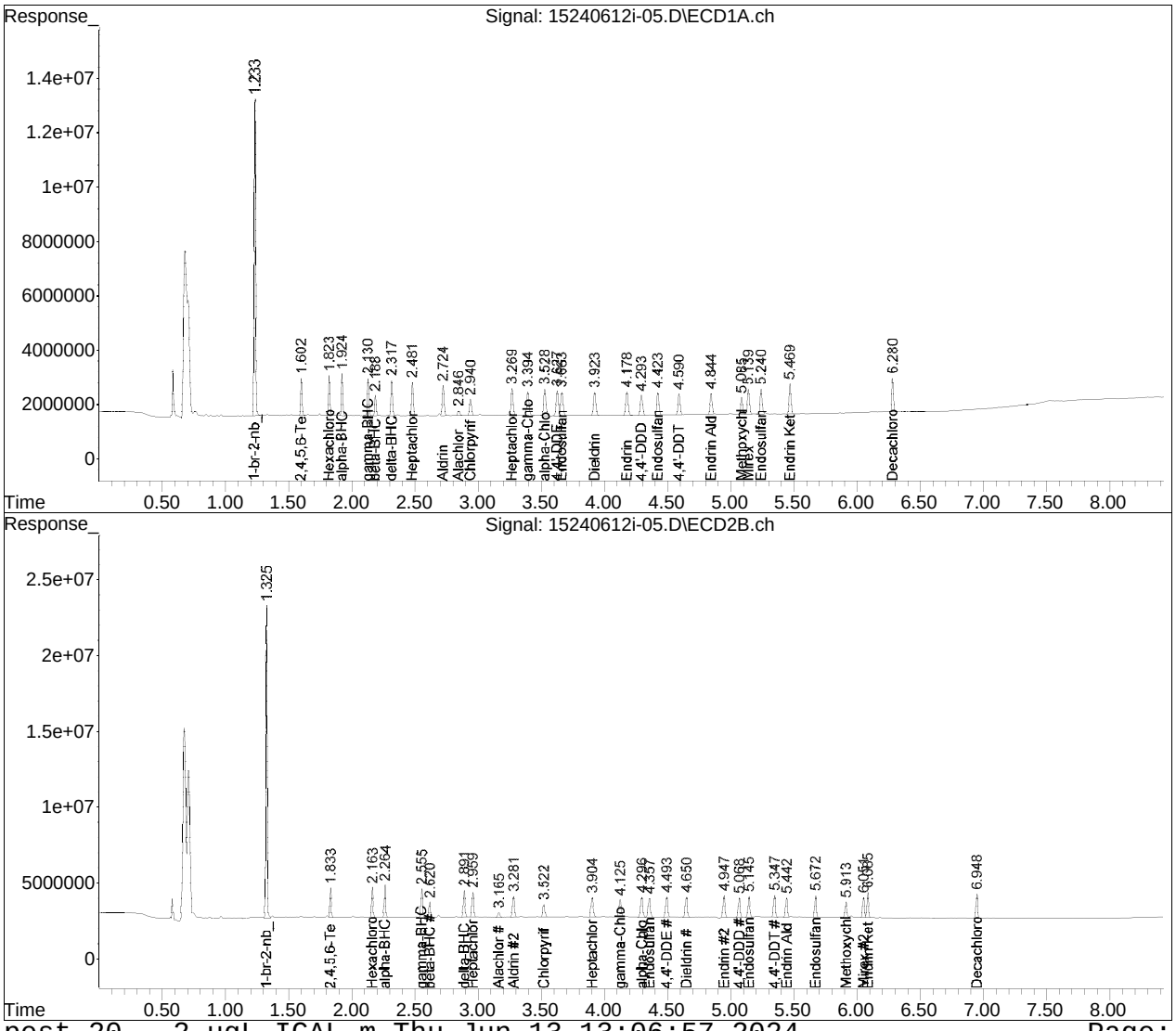
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:03
Operator : Pest15:kb
Sample : il3pest,42e,,pp 11570 L0.002
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:20:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation

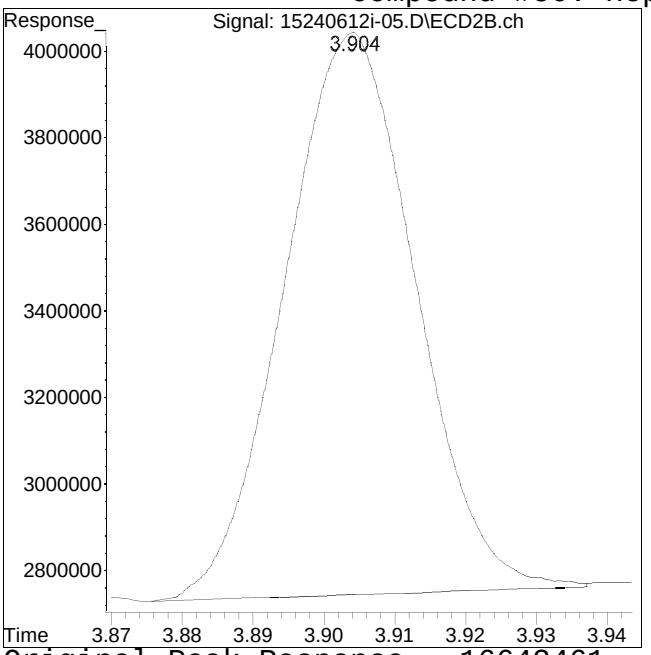
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



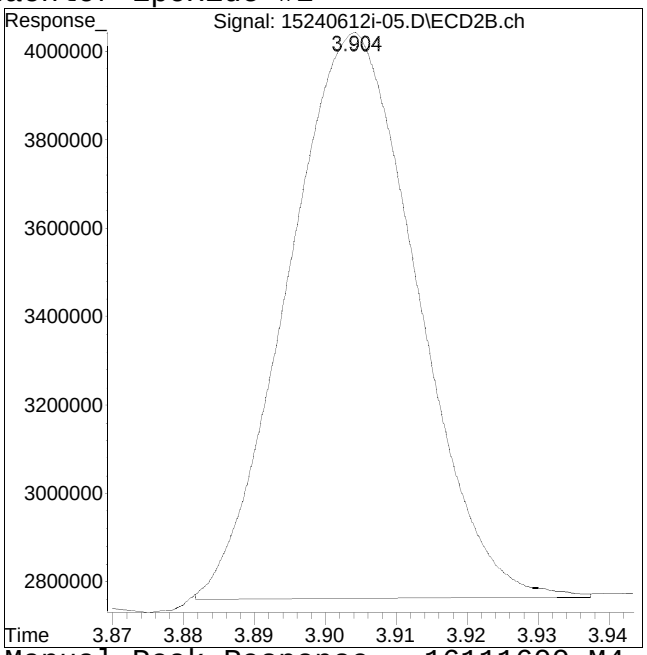
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-05.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:03 Instrument : Pest 15
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/13/2024 9:20 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 16642461



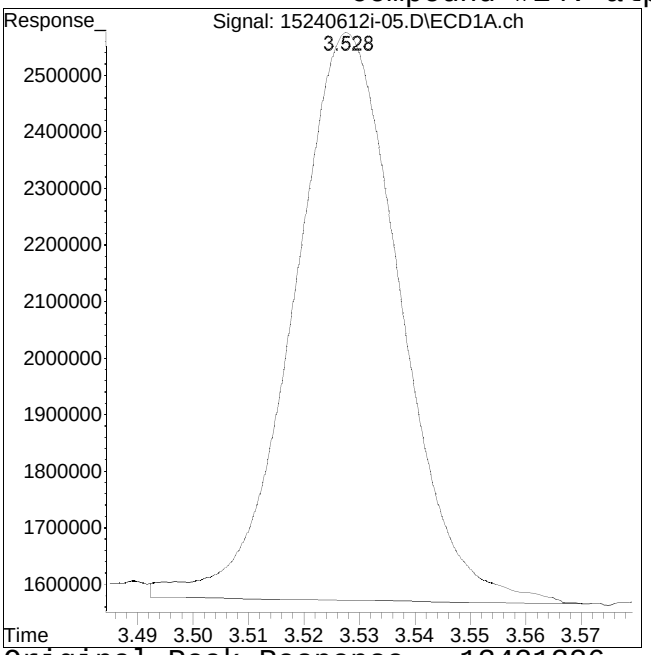
Manual Peak Response = 16111600 M4

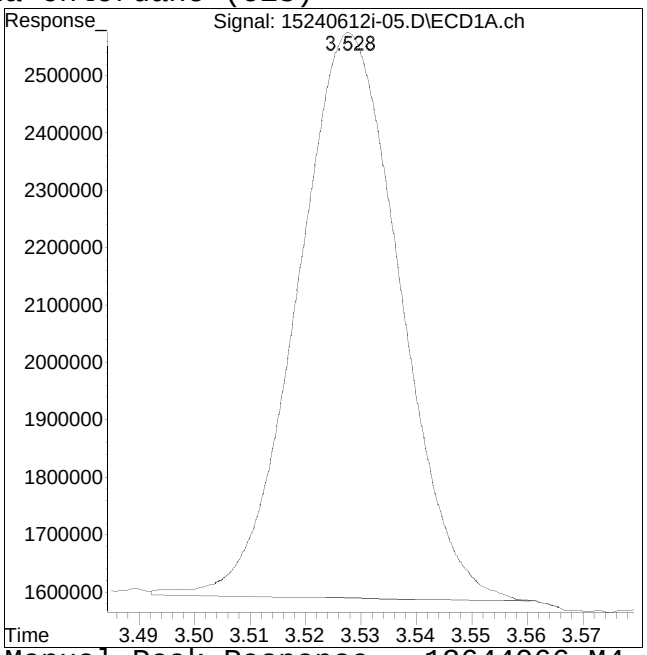
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-05.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:03 Instrument : Pest 15
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/13/2024 9:20 am

Compound #14: alpha-Chlordane (cis)



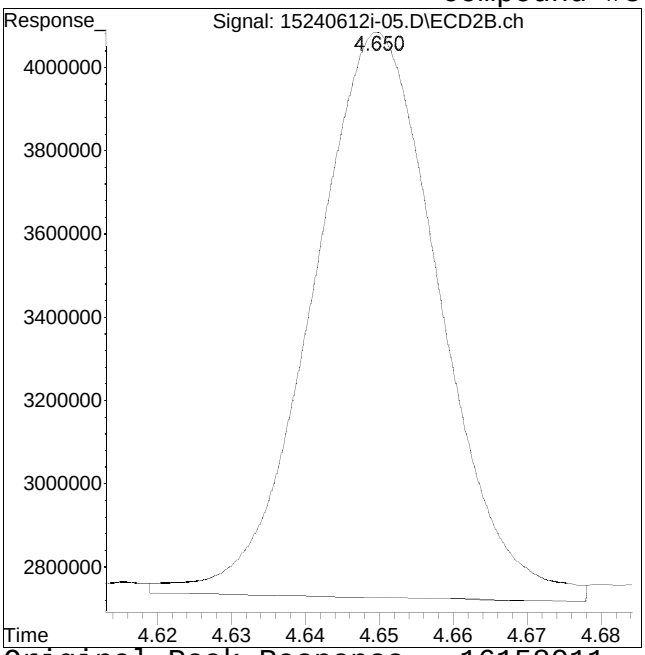


Original Peak Response = 13421236 Manual Peak Response = 12644066 M4
M4 = Poor automated baseline construction.

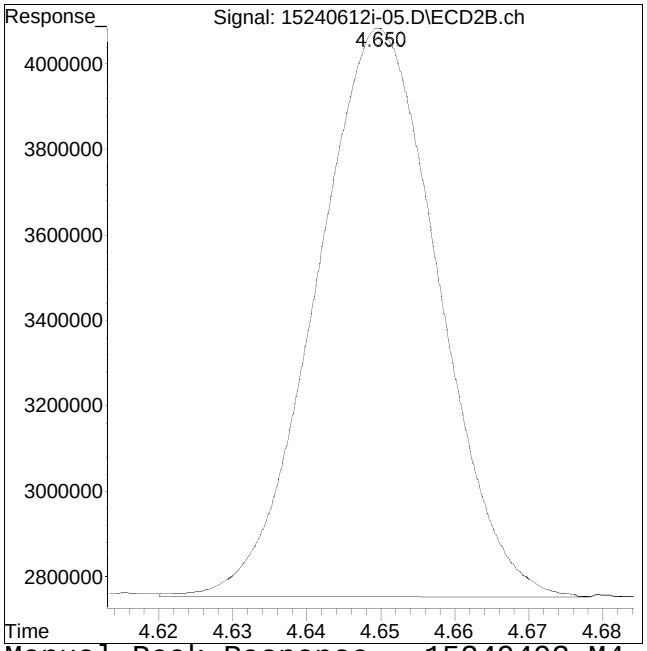
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-05.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:03 Instrument : Pest 15
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/13/2024 9:20 am

Compound #55: Dieldrin #2



Original Peak Response = 16158011



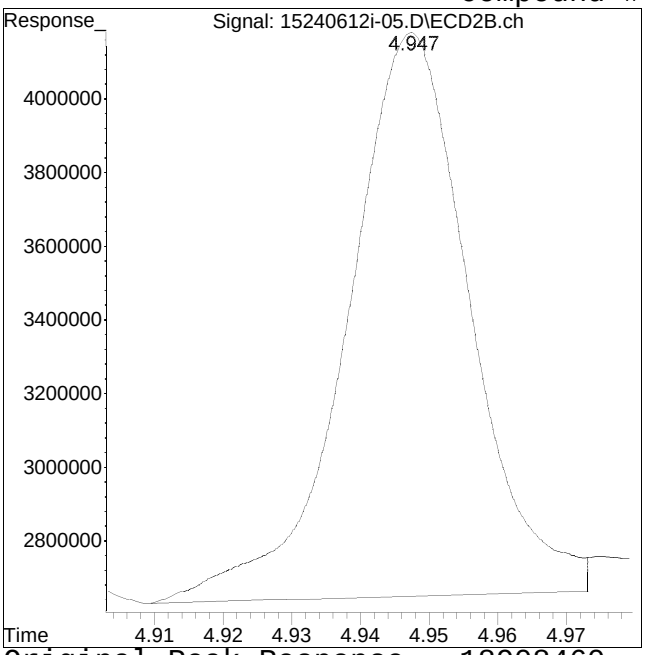
Manual Peak Response = 15249493 M4

M4 = Poor automated baseline construction.

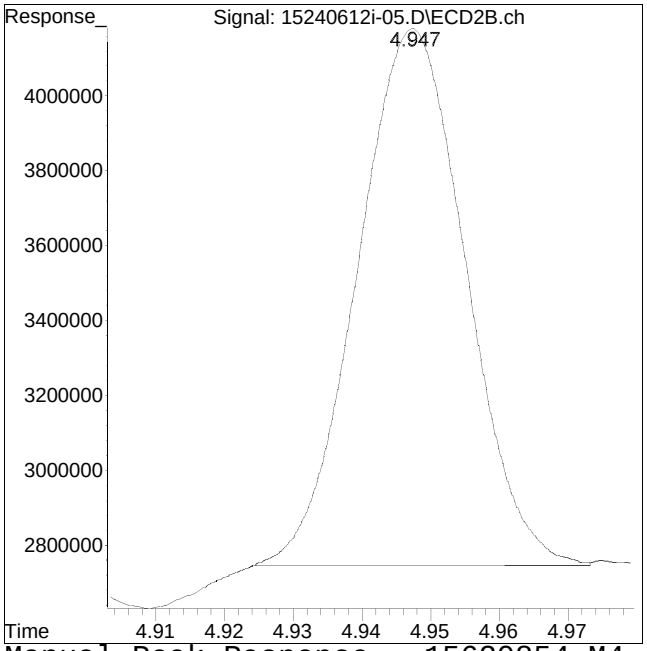
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-05.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:03 Instrument : Pest 15
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/13/2024 9:20 am

Compound #56: Endrin #2



Original Peak Response = 18908460

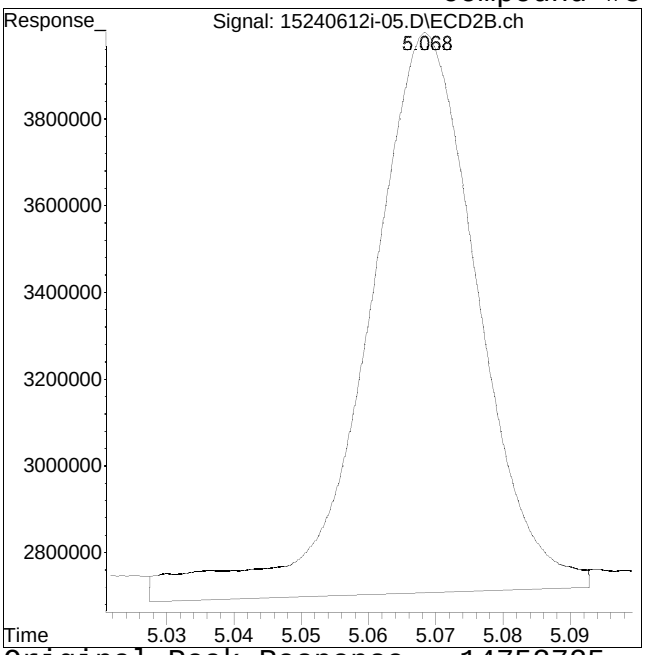


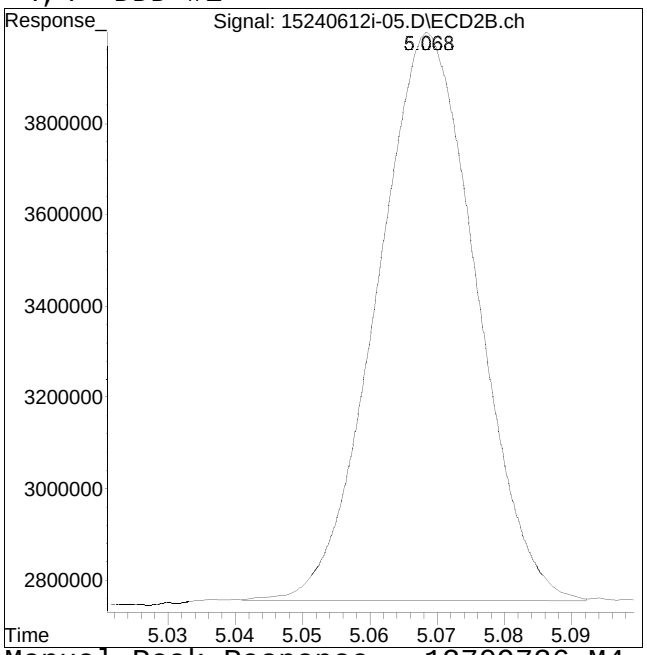
Manual Peak Response = 15620854 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-05.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:03 Instrument : Pest 15
Sample : il3pest,42e,,pp 11570 L0.0Quant Date : 6/13/2024 9:20 am

Compound #57: 4,4'-DDD #2





Original Peak Response = 14752725 Manual Peak Response = 12709736 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:19
Operator : Pest15:kb
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:18:02 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:17:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.241	1.328	95030067	158.5E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.611	1.835	16329372	23119213	3.866	3.446
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.73%#	6.89%#
27) s	Decachlorobi	6.292	6.953	16889427	20436501	3.842	3.603
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.68%#	7.21%#
	Target Compounds						
3)	Hexachlorobe	1.833	2.165	17771061	24969991	3.990	3.613
4)	alpha-BHC	1.935	2.266	18528340	27956155	3.466	3.139
5)	gamma-BHC (l	2.142	2.557	17657883	26709612	3.562	3.265
6)	beta-BHC	2.200	2.622	9403761	14192434	3.938	3.767
7)	delta-BHC	2.330	2.893	17400790	26654016	3.478	3.200
8)	Heptachlor	2.494	2.961	17717085	25991167	3.730	3.349
9)	Aldrin	2.738	3.283	17155112	23927683	3.636	3.186
10)	Alachlor	2.861	3.167	3161873	4568370	3.911	3.667
11)	Chlorpyrifos	2.956	3.525	9882759	14839893	4.242	3.934
12)	Heptachlor E	3.286	3.907	17105935	24739804	3.740	3.457
13)	gamma-Chlord	3.411	4.128	15919428	22372596	3.736	3.379
14)	alpha-Chlord	3.545	4.299	18095396	24645053	3.733M4	3.357
15)	4,4'-DDE	3.644	4.496	17236856	23137028	3.572M4	3.083
16)	Endosulfan I	3.681	4.360	16690786	22806032	3.768	3.371
17)	Dieldrin	3.941	4.652	16811309	22408077	3.630	3.176
18)	Endrin	4.196	4.950	17066984	23227215	3.631	3.265M4
19)	4,4'-DDD	4.310	5.072	13930466	19911839	3.589	3.270
20)	Endosulfan I	4.439	5.148	15771910	21662927	3.765	3.416

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:19
Operator : Pest15:kb
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:18:02 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:17:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	4.607	5.349	14216259	21377762	3.581	3.198
22)	Endrin Aldeh	4.859	5.446	12895173	18604641	3.655	3.468
23)	Methoxychlor	5.100	5.917	9978964	14855378	4.051	4.098
24)	Mirex	5.153	6.056	15242164	19326683	3.966	3.677
25)	Endosulfan S	5.253	5.675	15138365	20452378	3.761M3	3.429
26)	Endrin Keton	5.482	6.089	17124661	22881878	3.797	3.393
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

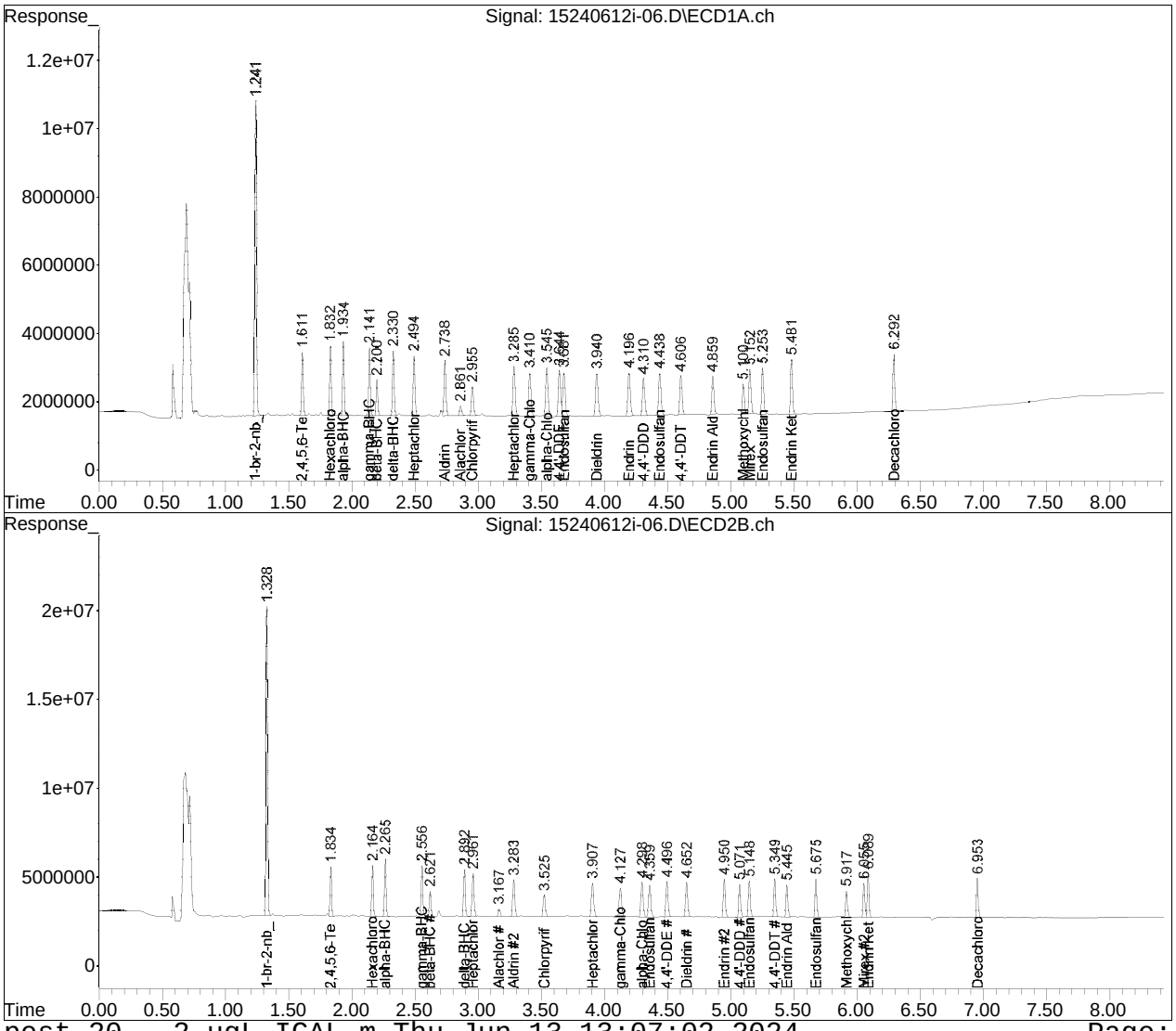
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:19
Operator : Pest15:kb
Sample : il4pest,42e,,pp 11569 L0.003
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:18:02 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:17:51 2024
Response via : Initial Calibration
Integrator: ChemStation

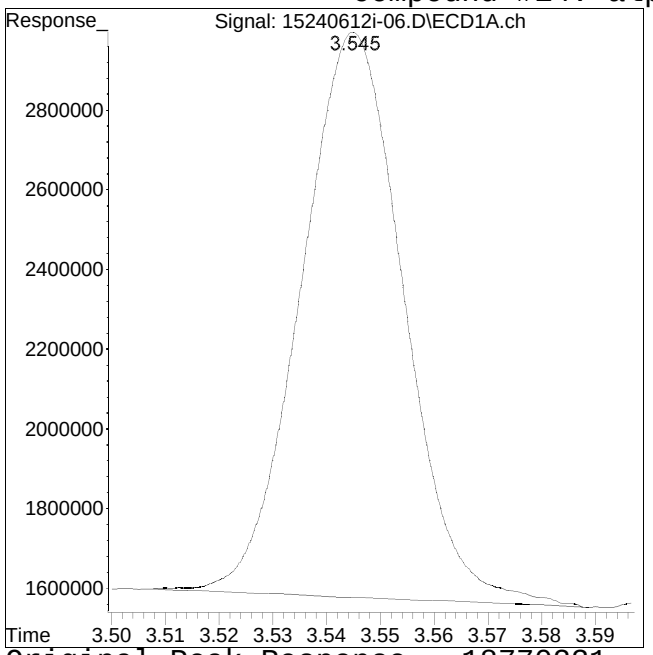
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



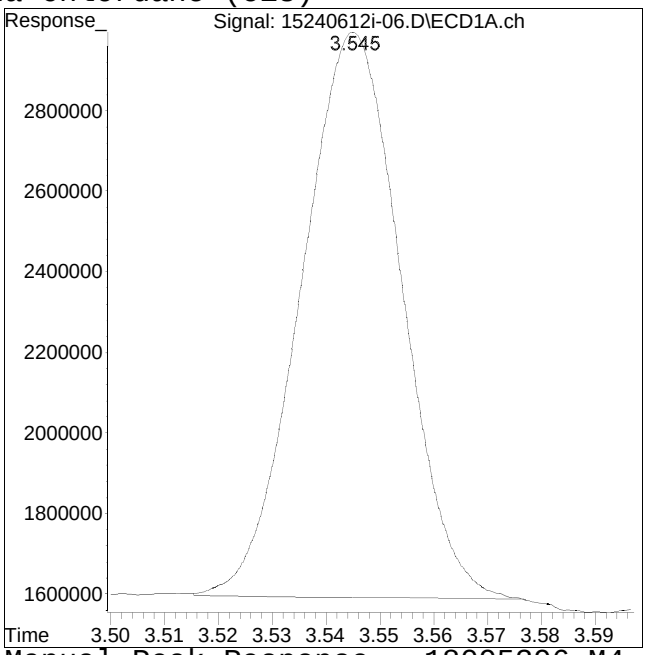
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-06.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:19 Instrument : Pest 15
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/13/2024 9:18 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 18770231



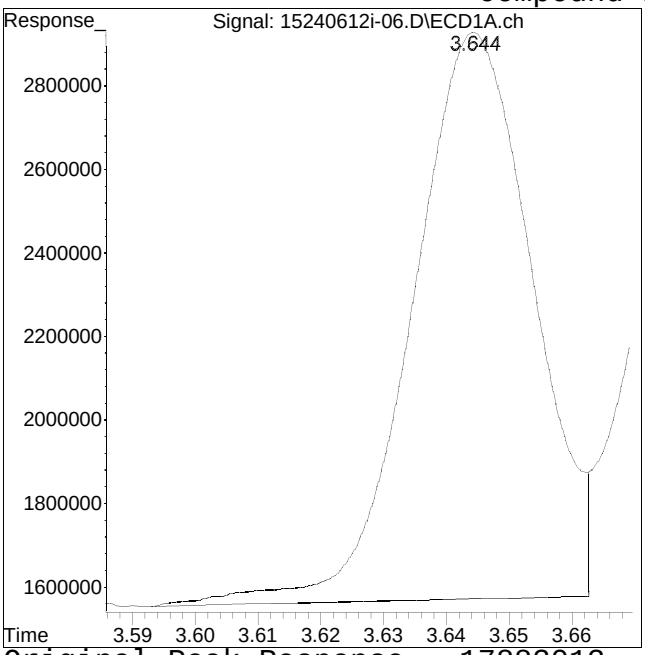
Manual Peak Response = 18095396 M4

M4 = Poor automated baseline construction.

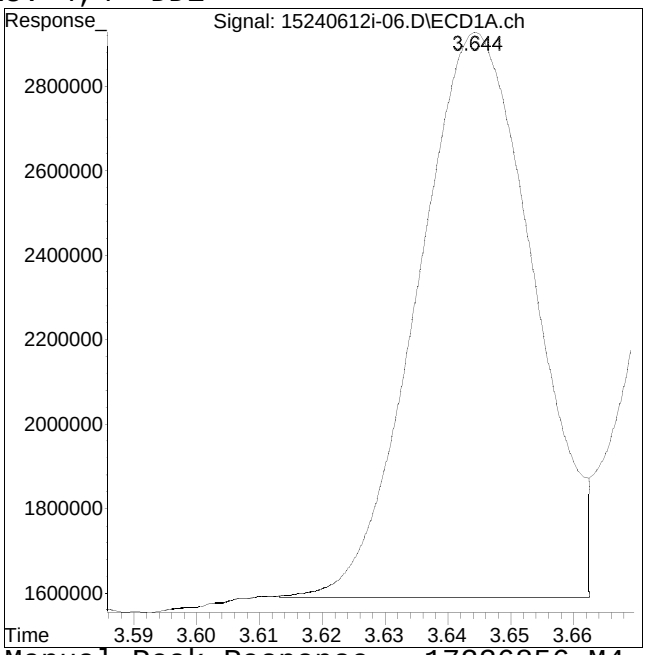
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-06.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:19 Instrument : Pest 15
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/13/2024 9:18 am

Compound #15: 4,4'-DDE



Original Peak Response = 17883013



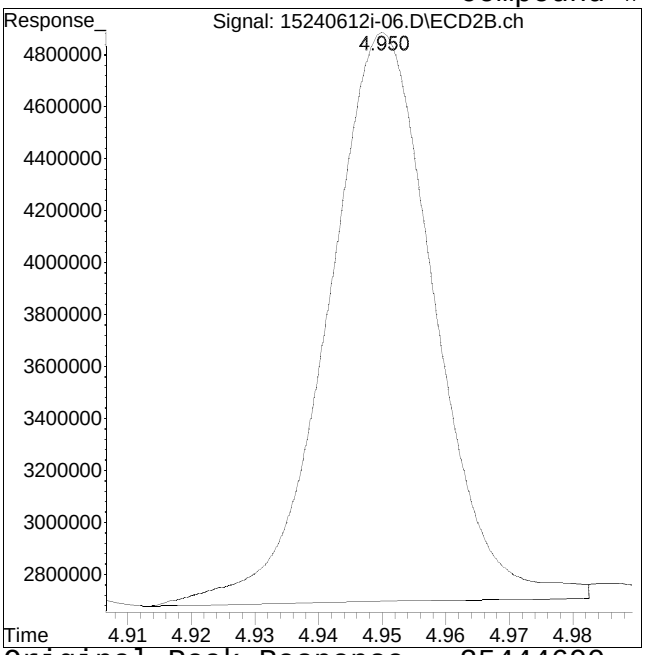
Manual Peak Response = 17236856 M4

M4 = Poor automated baseline construction.

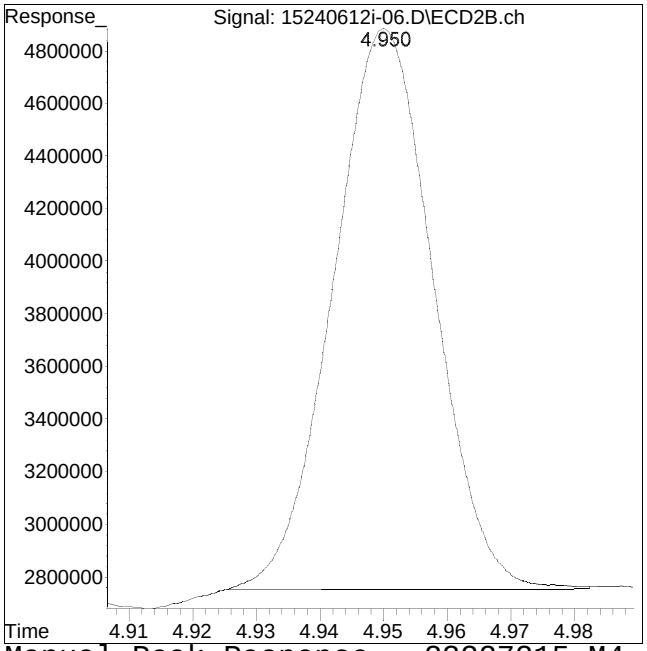
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-06.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:19 Instrument : Pest 15
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/13/2024 9:18 am

Compound #56: Endrin #2



Original Peak Response = 25444690



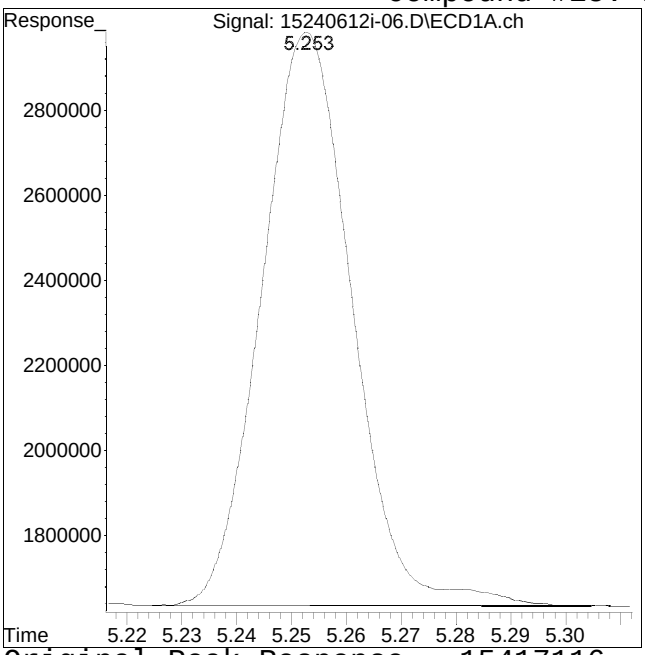
Manual Peak Response = 23227215 M4

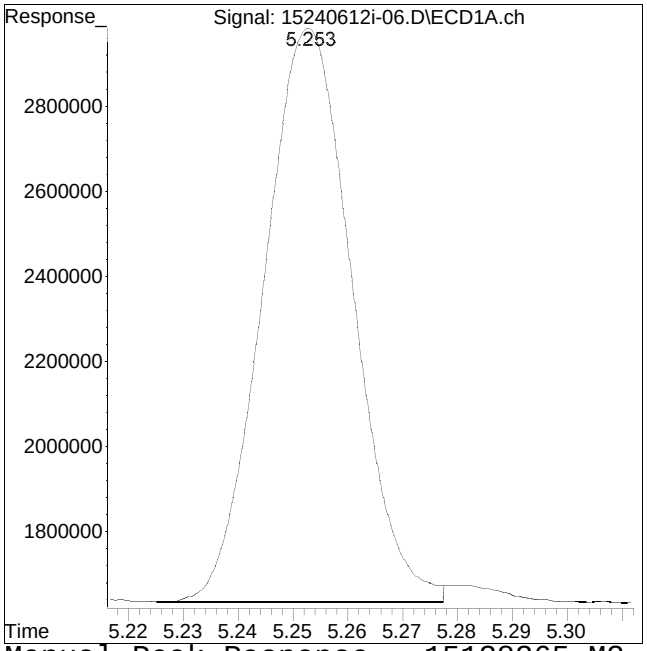
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-06.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:19 Instrument : Pest 15
Sample : il4pest,42e,,pp 11569 L0.0Quant Date : 6/13/2024 9:18 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 15417116 Manual Peak Response = 15138365 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:30
Operator : Pest15:kb
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:13:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.234	1.326	98002506	160.5E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.603	1.834	21280038	30793778	5.112	4.656
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.22%#	9.31%#
27) s	Decachlorobi	6.283	6.950	24878755	28775293	5.929	5.275
	Spiked Amount 50.000	Range 30 - 150		Recovery =		11.86%#	10.55%#
	Target Compounds						
3)	Hexachlorobe	1.824	2.164	22886202	32158724	5.240	4.735
4)	alpha-BHC	1.925	2.265	24570378	36347137	4.561	4.035
5)	gamma-BHC (l	2.131	2.556	23504660	34721036	4.739	4.231
6)	beta-BHC	2.189	2.621	12431212	17818113	5.328	4.831
7)	delta-BHC	2.319	2.891	23505940	34857875	4.686	4.159
8)	Heptachlor	2.482	2.960	24001711	34093986	5.131	4.412
9)	Aldrin	2.726	3.282	23140328	32511411	4.942	4.333
10)	Alachlor	2.848	3.166	4482186	6318820	5.772	5.274
11)	Chlorpyrifos	2.941	3.524	13150275	20495647	5.908	5.757
12)	Heptachlor E	3.271	3.904	23511151	32451224	5.243	4.586M4
13)	gamma-Chlord	3.395	4.125	21708896	30304086	5.185M4	4.639M4
14)	alpha-Chlord	3.529	4.296	24706501	33670605	5.186M4	4.650M4
15)	4,4'-DDE	3.629	4.493	24067322	32835147	5.048M4	4.390M4
16)	Endosulfan I	3.665	4.357	22961959	30923389	5.298	4.631M4
17)	Dieldrin	3.925	4.650	22985606	31411519	5.017	4.484M4

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:30
Operator : Pest15:kb
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:13:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	4.180	4.948	23620321	32217611	5.095	4.578M4
19)	4,4'-DDD	4.295	5.069	19212185	27577662	5.000	4.580M4
20)	Endosulfan I	4.425	5.146	21452362	29397779	5.217	4.713M4
21)	4,4'-DDT	4.592	5.347	17090622	29853610	4.211	4.502
22)	Endrin Aldeh	4.846	5.443	17802541	24775413	5.122	4.691
23)	Methoxychlor	5.088	5.914	13877740	19057455	5.894	5.519
24)	Mirex	5.141	6.053	21389706	27014401	5.802	5.362
25)	Endosulfan S	5.242	5.672	20829920	28312261	5.288	4.854
26)	Endrin Keton	5.471	6.086	23526127	31908709	5.341	4.833
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:30
Operator : Pest15:kb
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:13:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

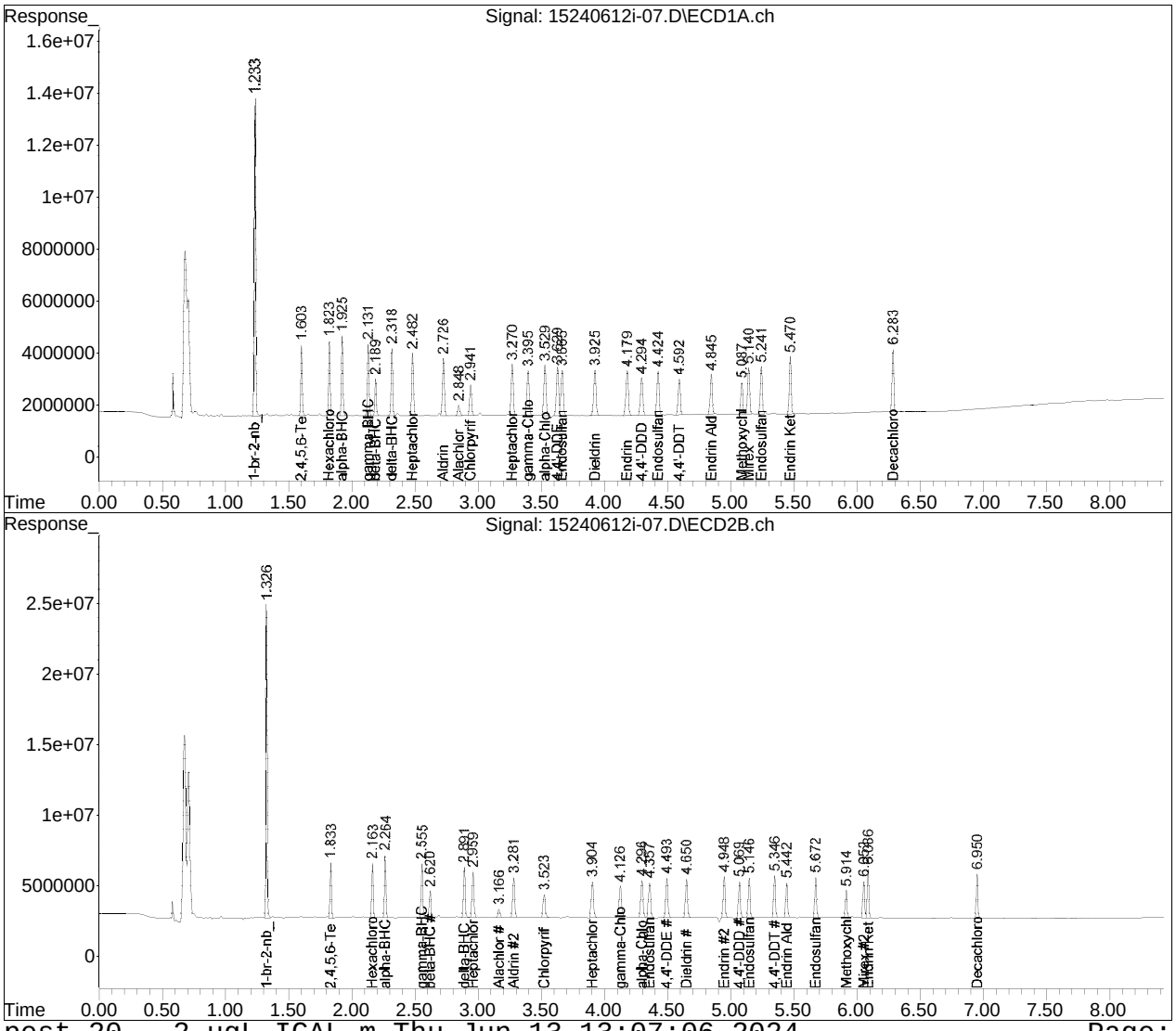
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:30
Operator : Pest15:kb
Sample : il5pest,42e,,pp 11568 L0.004
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:13:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:13:37 2024
Response via : Initial Calibration
Integrator: ChemStation

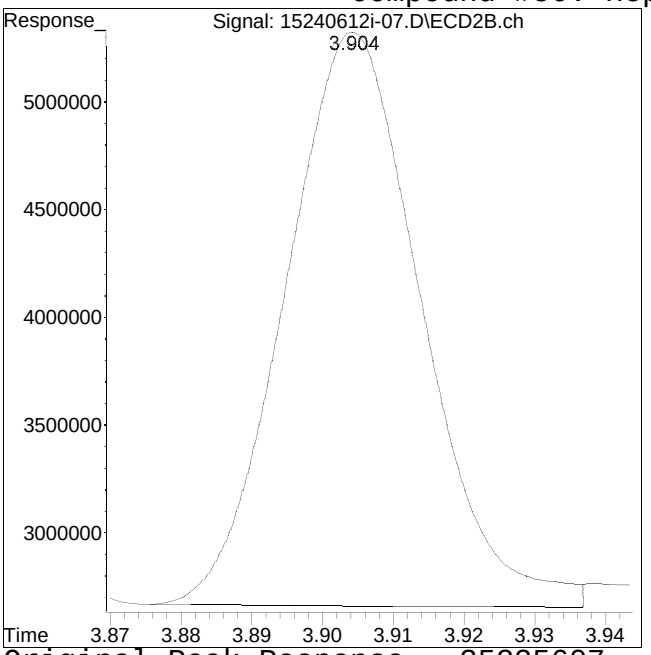
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

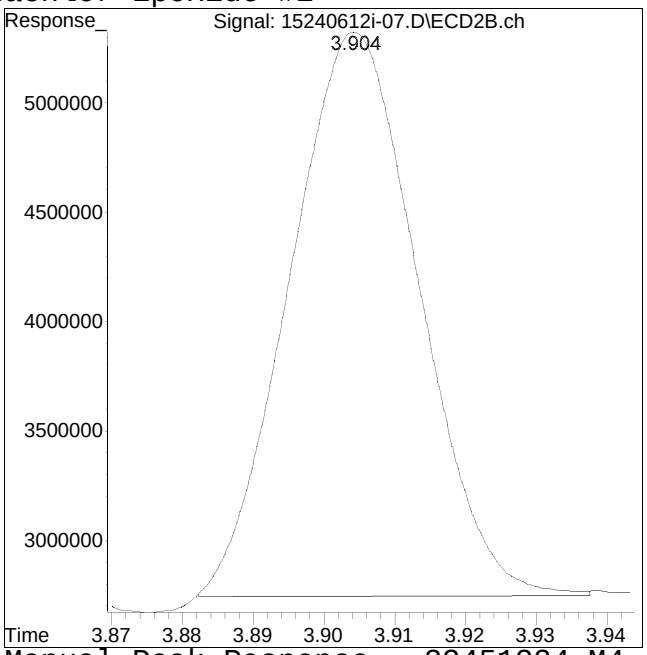


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #50: Heptachlor Epoxide #2



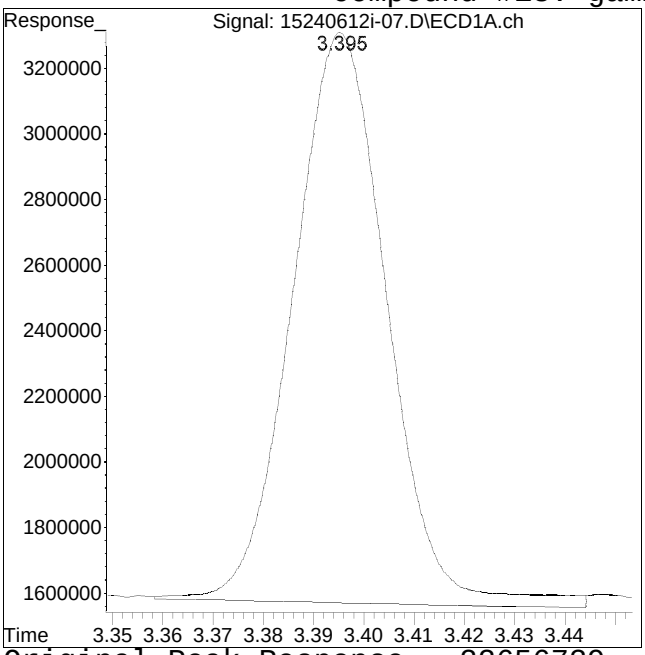


Original Peak Response = 35335607 Manual Peak Response = 32451224 M4
M4 = Poor automated baseline construction.

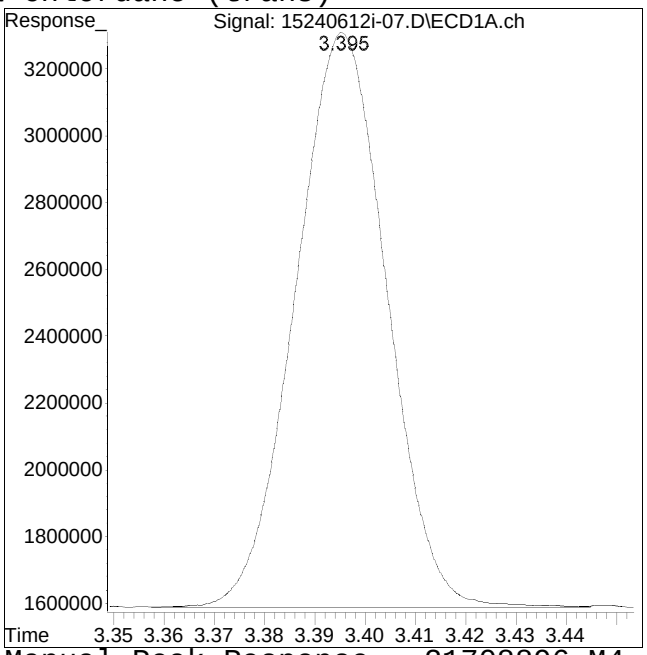
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 22656739



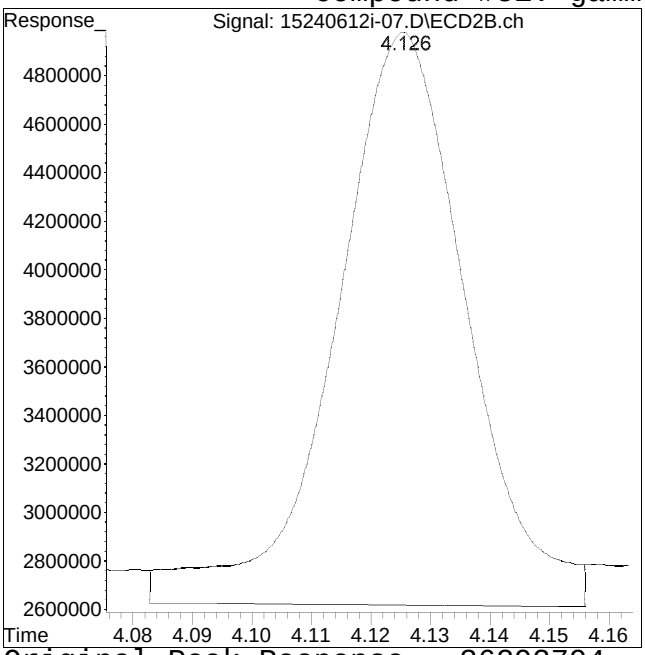
Manual Peak Response = 21708896 M4

M4 = Poor automated baseline construction.

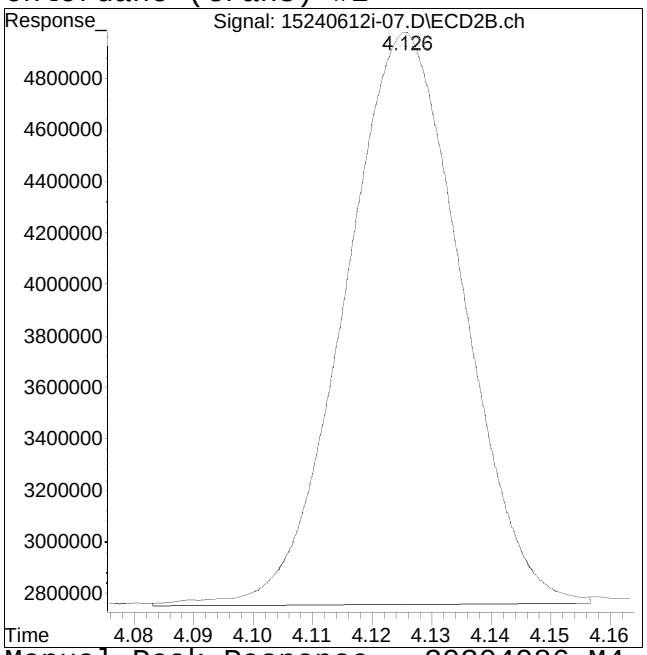
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 36292794



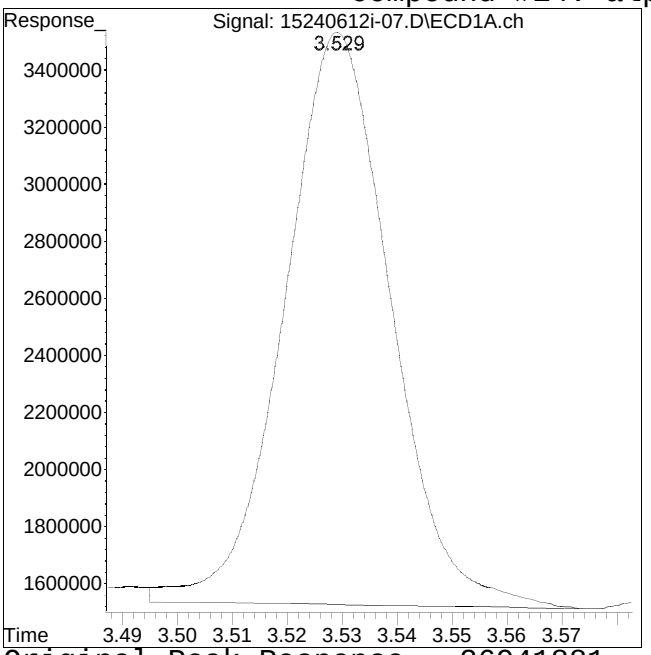
Manual Peak Response = 30304086 M4

M4 = Poor automated baseline construction.

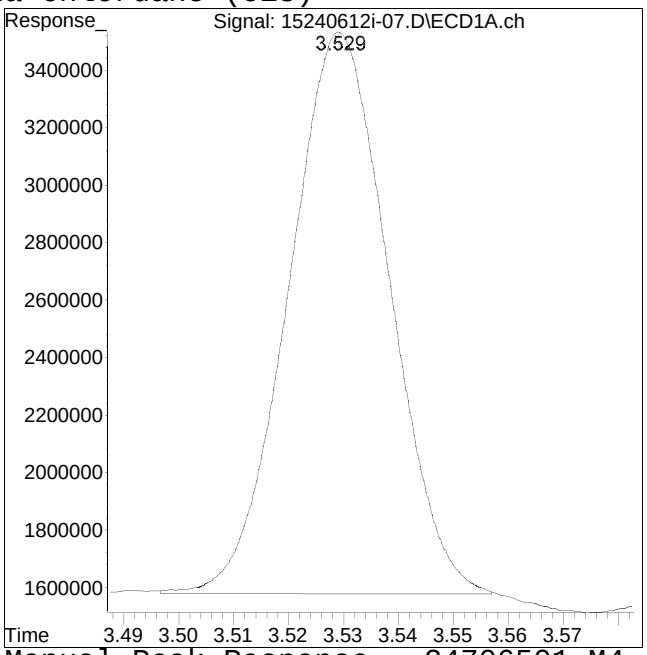
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 26941881



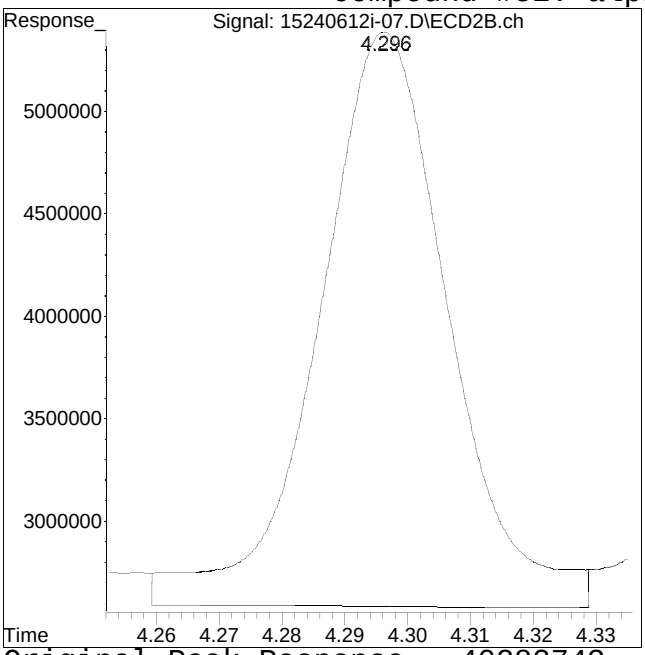
Manual Peak Response = 24706501 M4

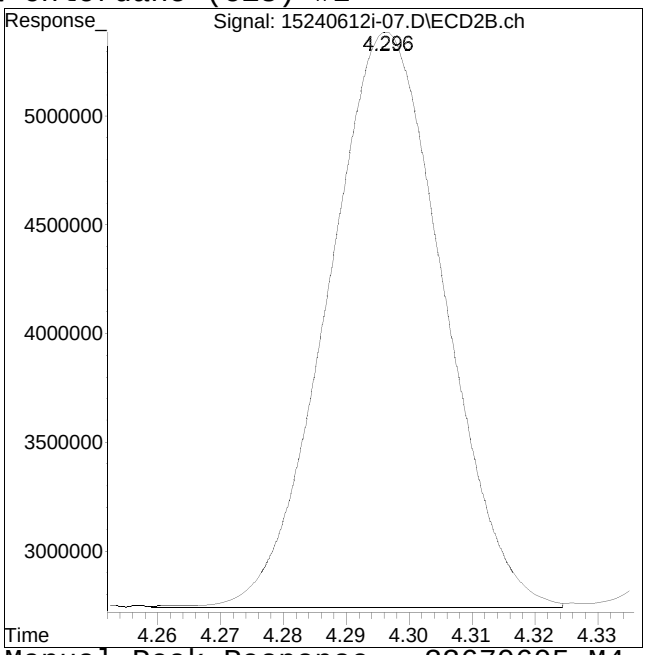
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #52: alpha-Chlordane (cis) #2



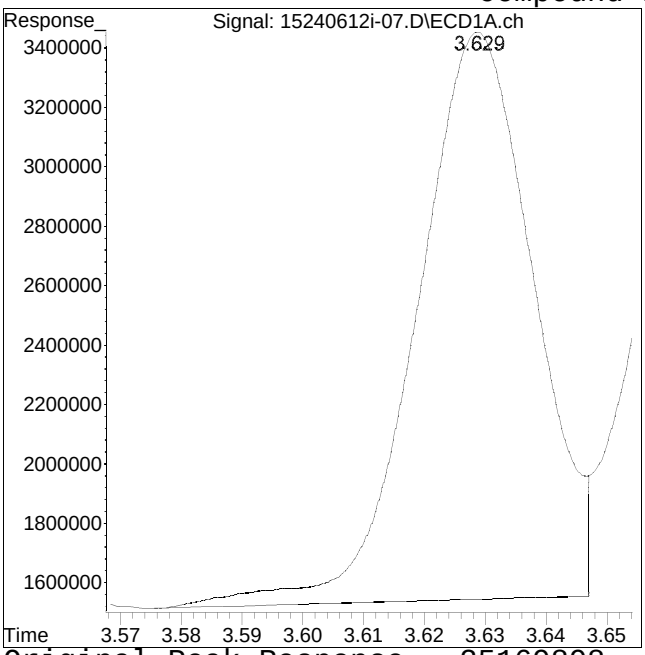


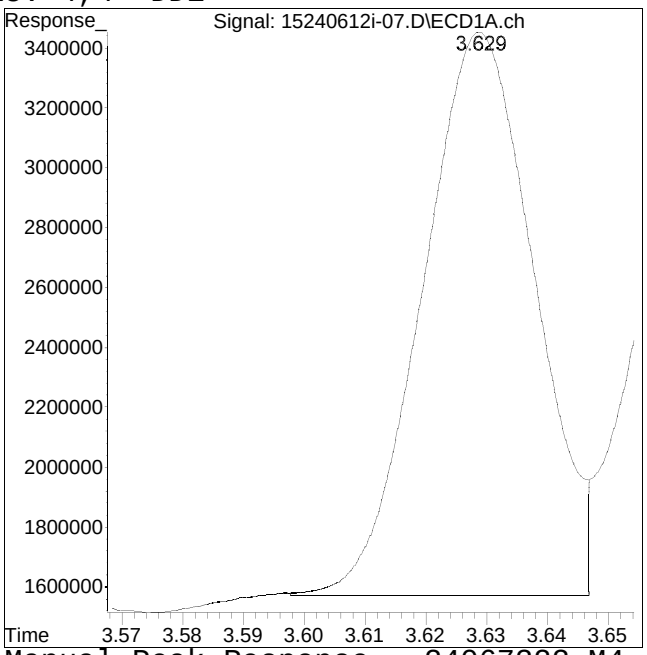
Original Peak Response = 40282743 Manual Peak Response = 33670605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #15: 4,4'-DDE



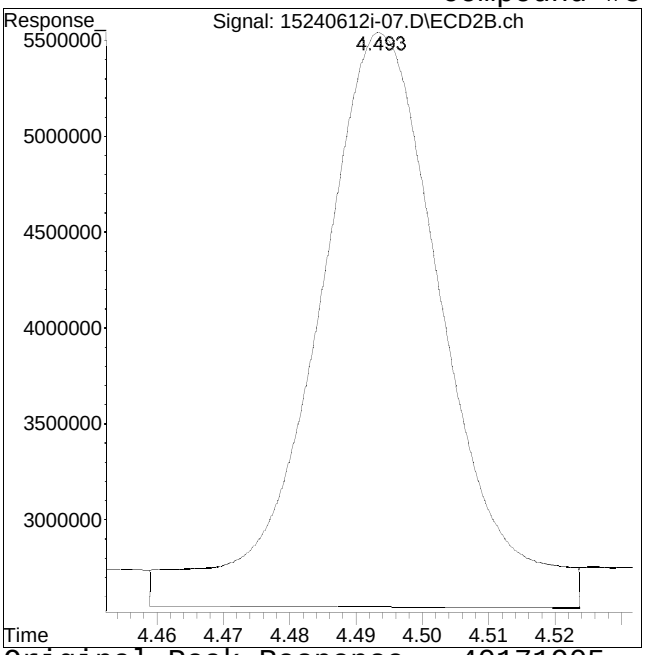


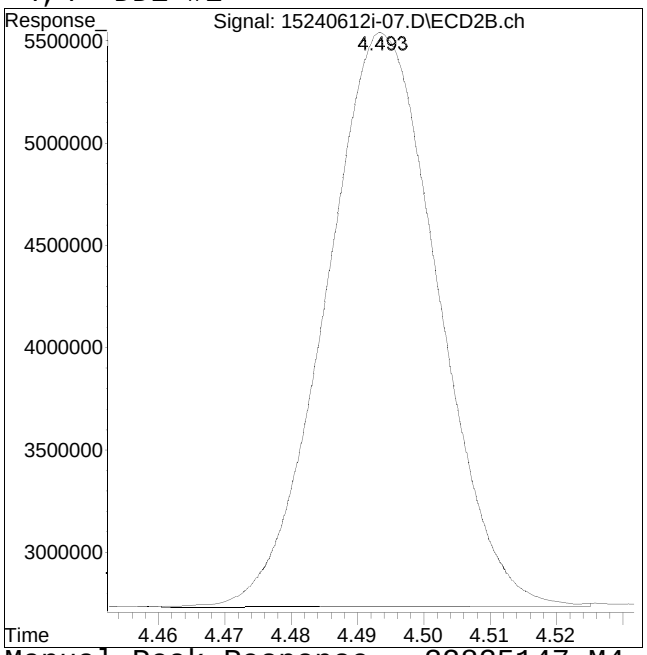
Original Peak Response = 25169898 Manual Peak Response = 24067322 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #53: 4,4'-DDE #2



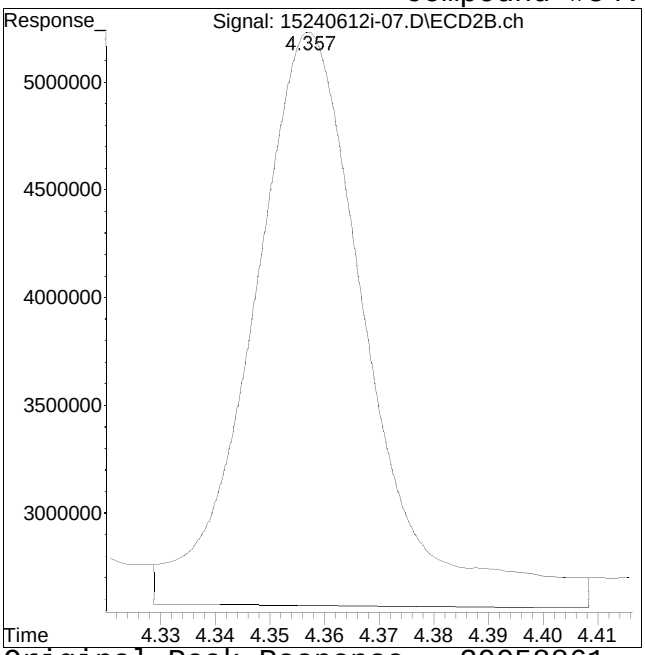


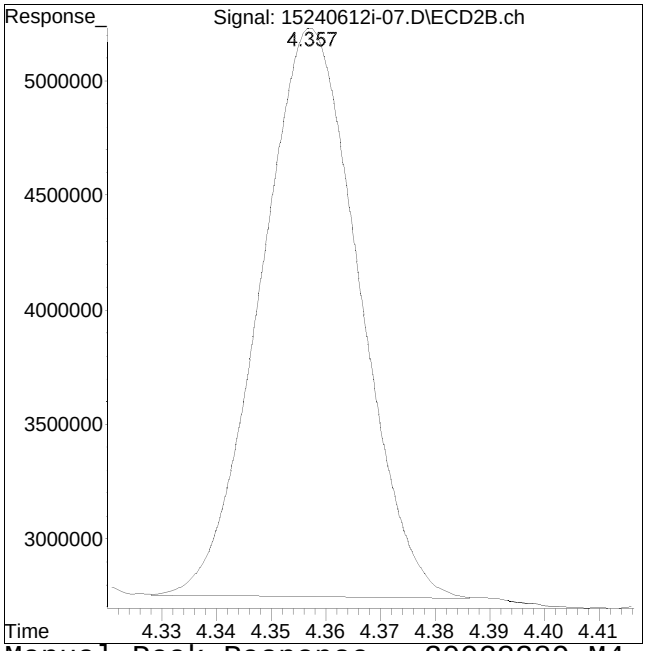
Original Peak Response = 40171905 Manual Peak Response = 32835147 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #54: Endosulfan I #2



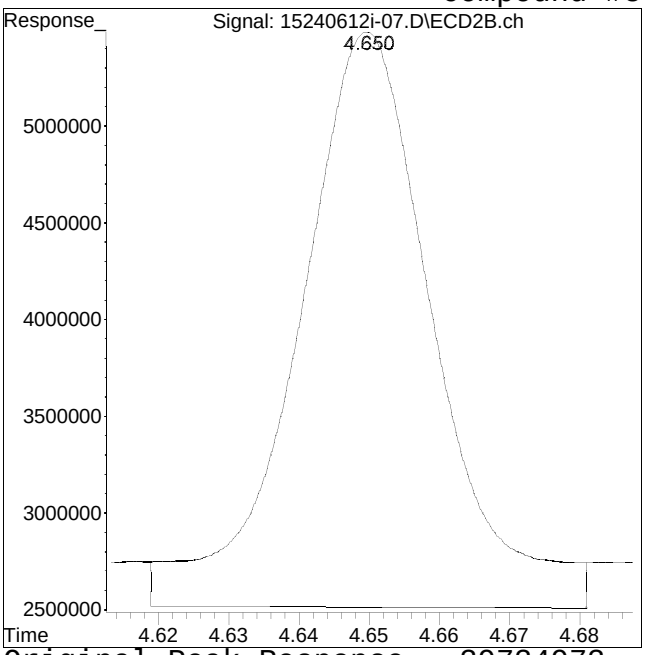


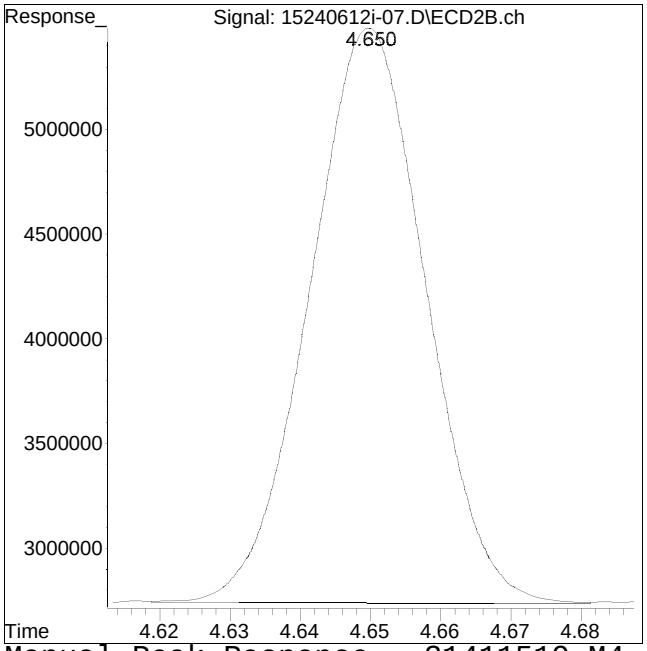
Original Peak Response = 39058861 Manual Peak Response = 30923389 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #55: Dieldrin #2



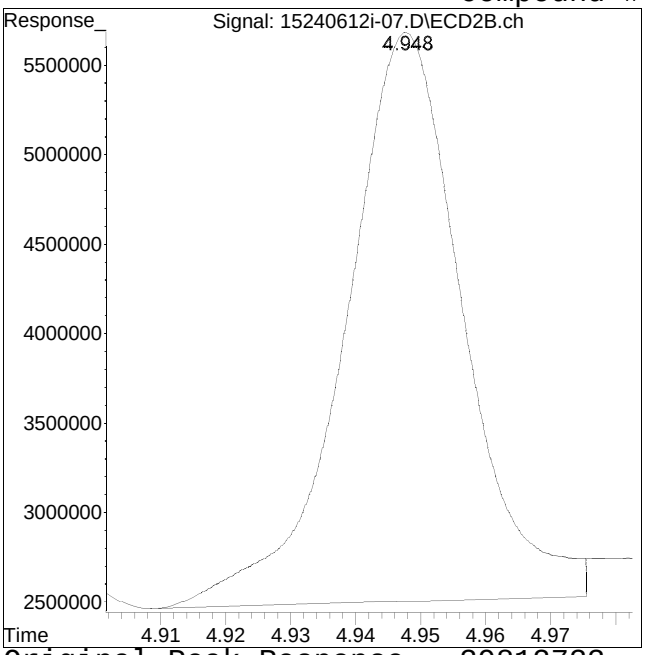


Original Peak Response = 39734973 Manual Peak Response = 31411519 M4
M4 = Poor automated baseline construction.

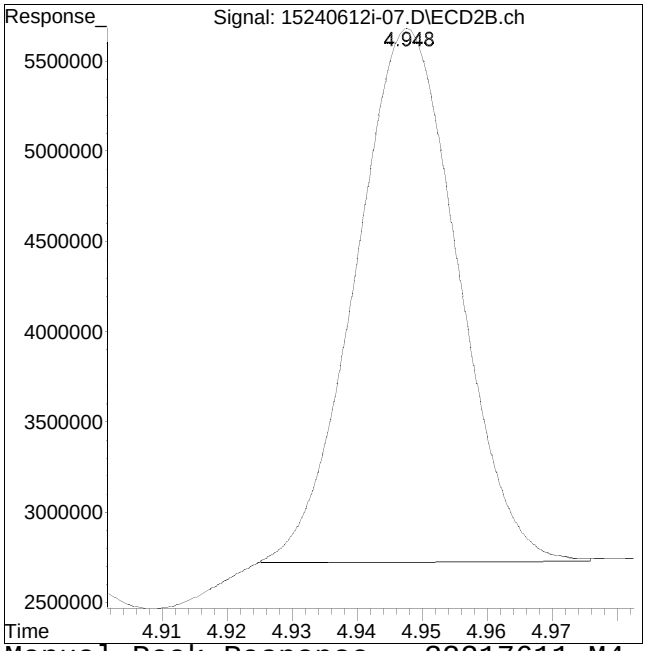
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #56: Endrin #2



Original Peak Response = 39812733



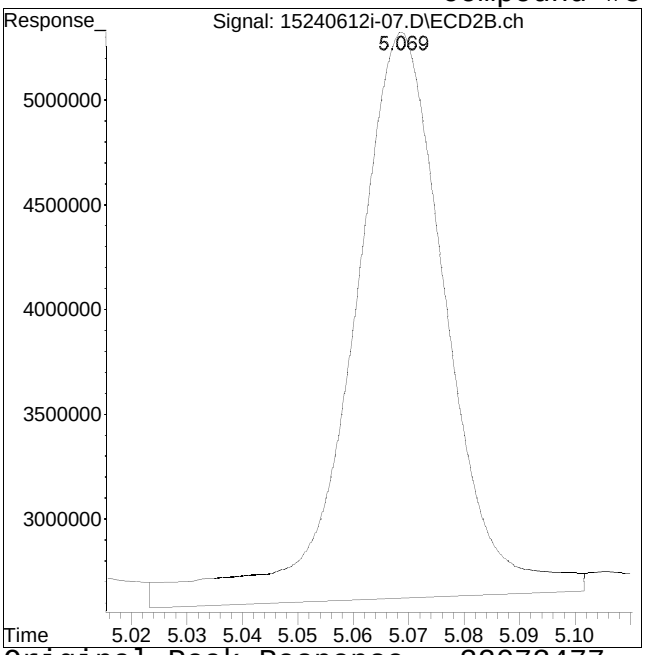
Manual Peak Response = 32217611 M4

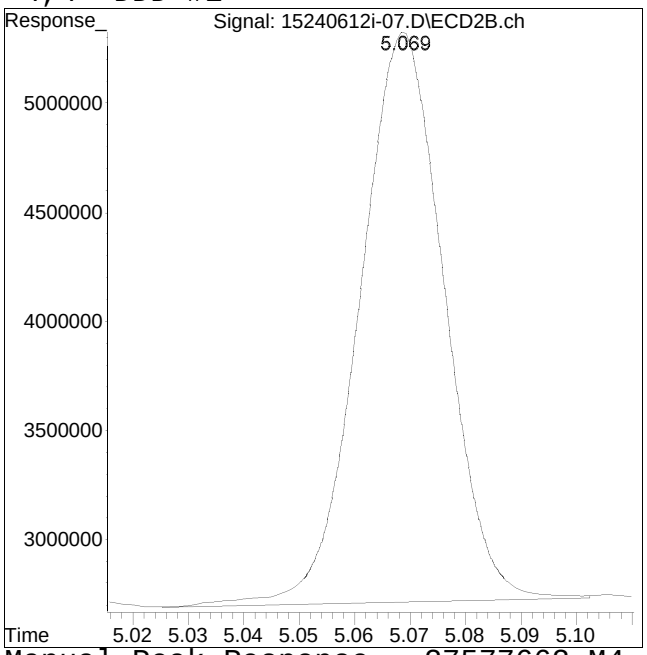
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #57: 4,4'-DDD #2



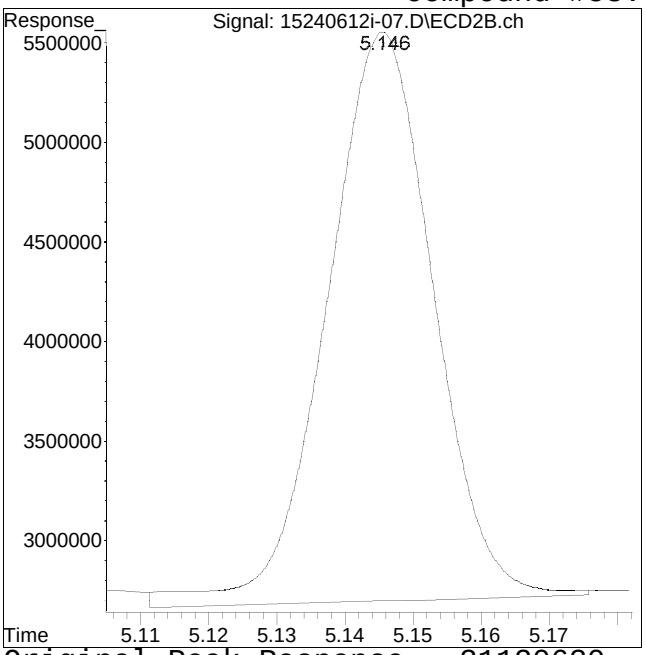


Original Peak Response = 32073477 Manual Peak Response = 27577662 M4
M4 = Poor automated baseline construction.

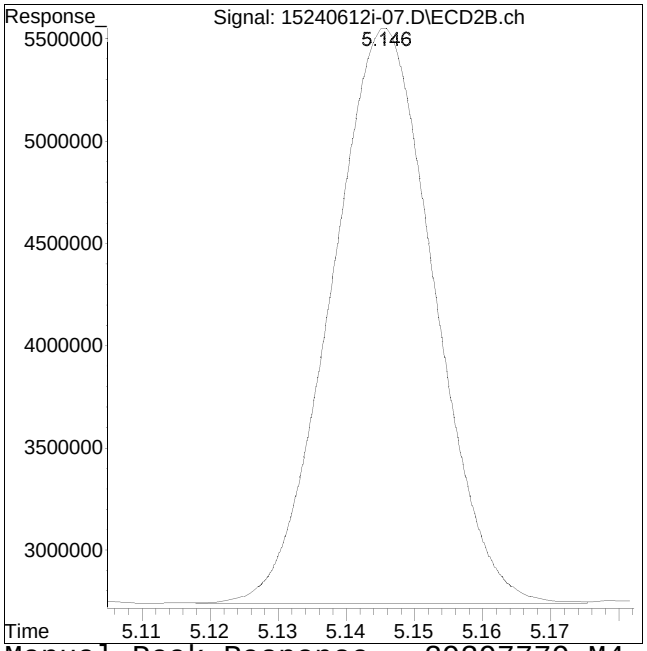
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-07.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:30 Instrument : Pest 15
Sample : il5pest,42e,,pp 11568 L0.0Quant Date : 6/13/2024 9:13 am

Compound #58: Endosulfan II #2



Original Peak Response = 31120630



Manual Peak Response = 29397779 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:42
Operator : Pest15:kb
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:10:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:10:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.231	1.324	96766370	156.7E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.602	1.833	48648740	69793100	12.406	11.037
	Spiked Amount 50.000	Range 30 - 150		Recovery =		24.81%#	22.07%#
27) s	Decachlorobi	6.282	6.949	52860425	61998108	13.703	12.144
	Spiked Amount 50.000	Range 30 - 150		Recovery =		27.41%#	24.29%#
	Target Compounds						
3)	Hexachlorobe	1.822	2.163	52075221	73839746	12.736	11.465
4)	alpha-BHC	1.924	2.264	58394756	89047442	11.253	10.162
5)	gamma-BHC (l	2.130	2.555	55005629	82895185	11.589	10.442
6)	beta-BHC	2.188	2.620	27887233	40414362	12.777	11.583
7)	delta-BHC	2.318	2.891	54399220	83572363	11.262	10.271
8)	Heptachlor	2.481	2.959	54484681	82499466	12.351	11.200
9)	Aldrin	2.725	3.282	53224902	77028786	11.965	10.656
10)	Alachlor	2.847	3.165	10154667	14519448	14.414	13.216
11)	Chlorpyrifos	2.940	3.523	28924228	44036485	14.290	13.581
12)	Heptachlor E	3.270	3.904	52780523	76156523	12.521	11.318
13)	gamma-Chlord	3.394	4.125	48641618	68129876	12.308	10.872
14)	alpha-Chlord	3.529	4.296	56370845	76946041	12.609	11.136
15)	4,4'-DDE	3.628	4.494	53755664	75927884	11.839	10.505
16)	Endosulfan I	3.664	4.357	50582334	71912044	12.383	11.328
17)	Dieldrin	3.924	4.650	52059701	72716022	11.960	10.808
18)	Endrin	4.179	4.947	52900725	73925358	12.024	10.973M4
19)	4,4'-DDD	4.294	5.068	43230206	61571149	11.806	10.603M4
20)	Endosulfan I	4.424	5.145	47608172	66864613	12.255	11.261M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:42
Operator : Pest15:kb
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:10:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:10:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	4.591	5.346	43361520	68666823	11.045	10.774M4
22)	Endrin Aldeh	4.845	5.443	40299973	56544886	12.277	11.242M4
23)	Methoxychlor	5.087	5.914	29804377	39929040	13.792	12.421
24)	Mirex	5.140	6.052	46560195	57953652	13.752	12.337
25)	Endosulfan S	5.241	5.672	45804842	62889339	12.323	11.343
26)	Endrin Keton	5.470	6.086	52186728	71838318	12.629	11.479
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

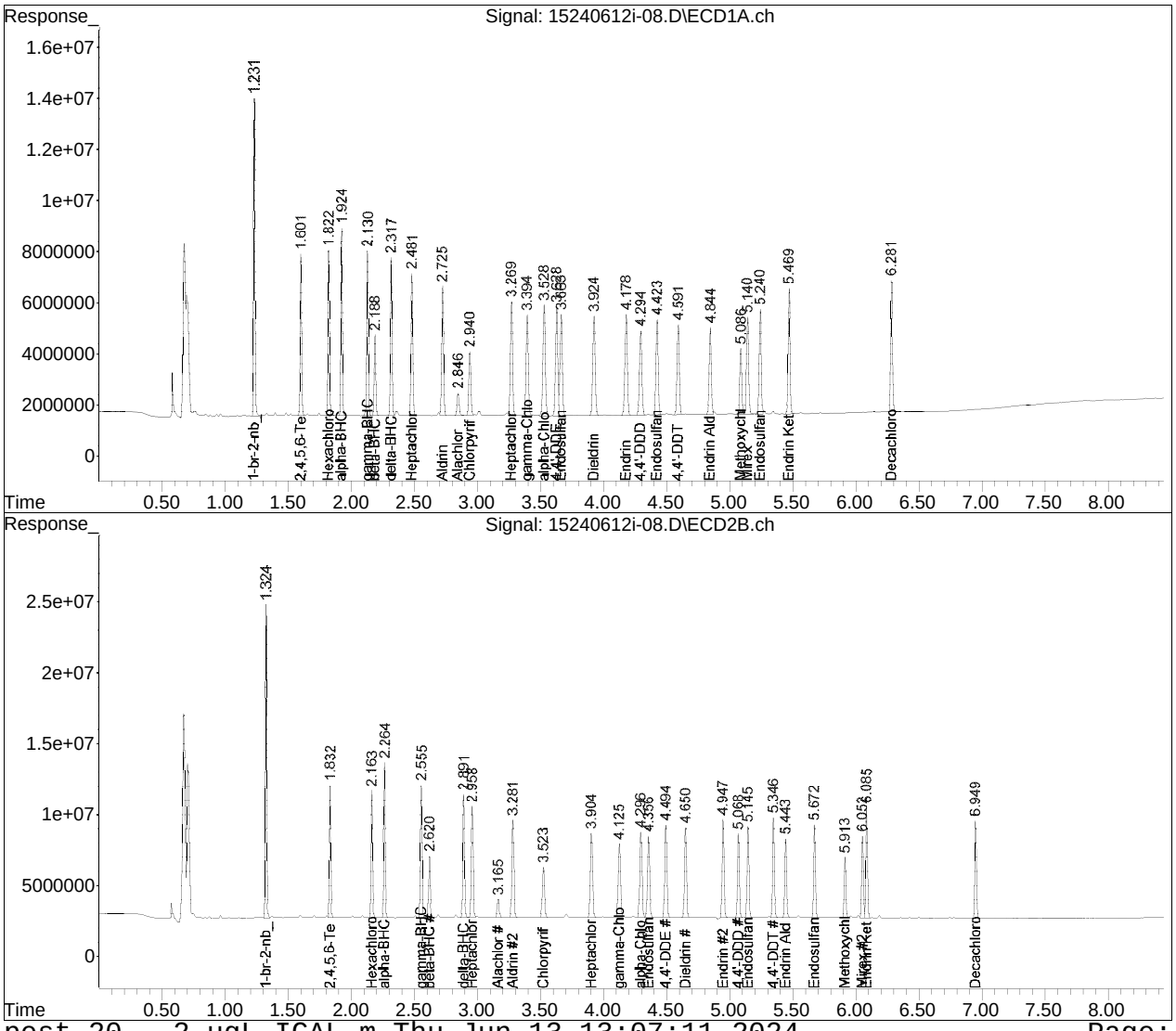
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:42
Operator : Pest15:kb
Sample : il7pest,42e,,pp 11567 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:10:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:10:27 2024
Response via : Initial Calibration
Integrator: ChemStation

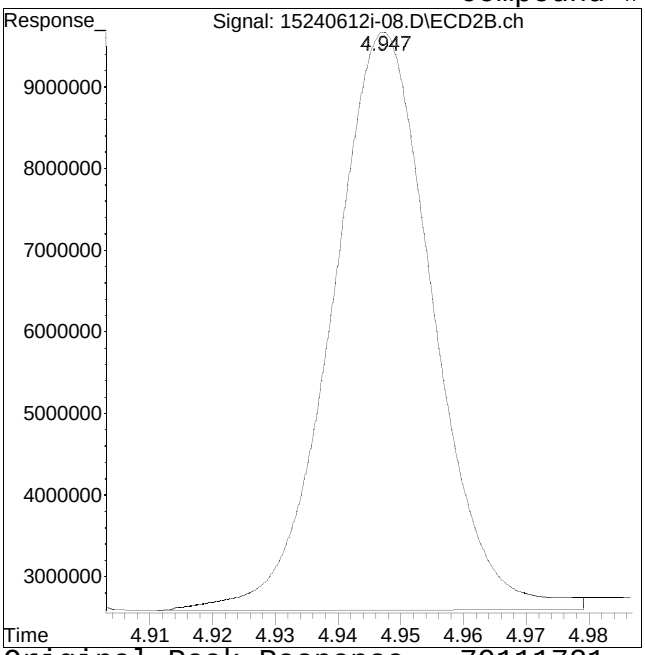
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

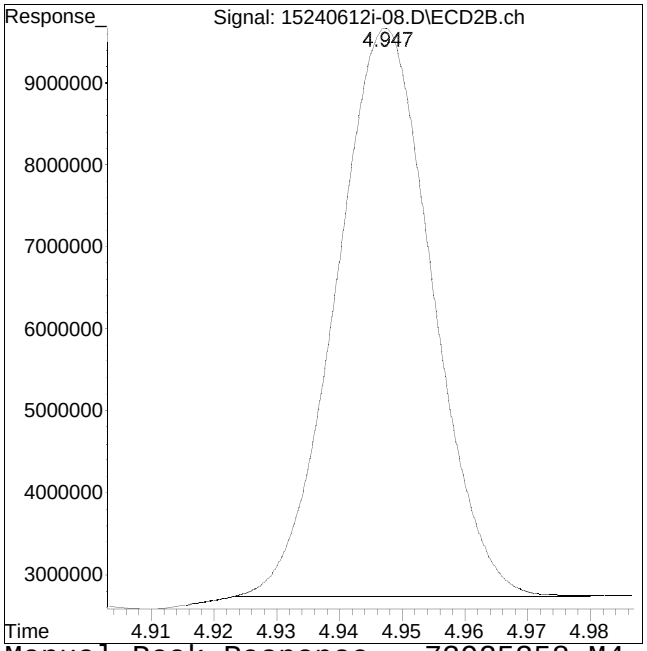


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-08.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:42 Instrument : Pest 15
Sample : il7pest,42e,,pp 11567 L0.0Quant Date : 6/13/2024 9:10 am

Compound #56: Endrin #2



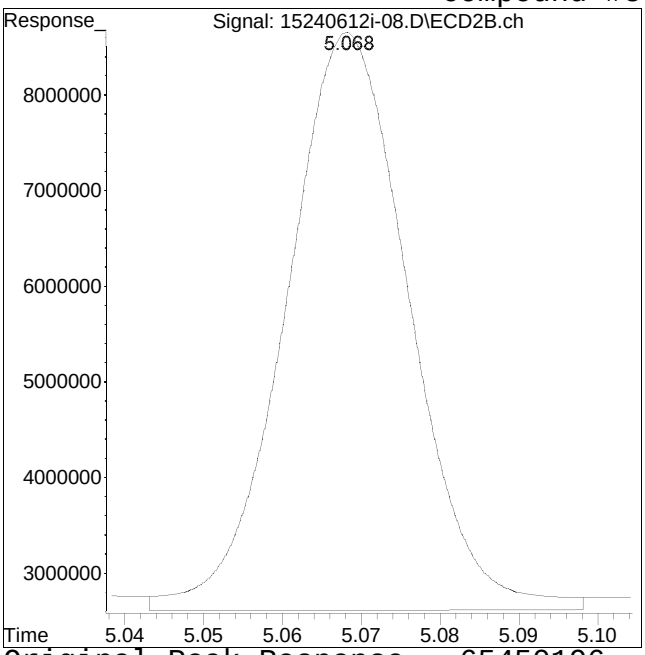


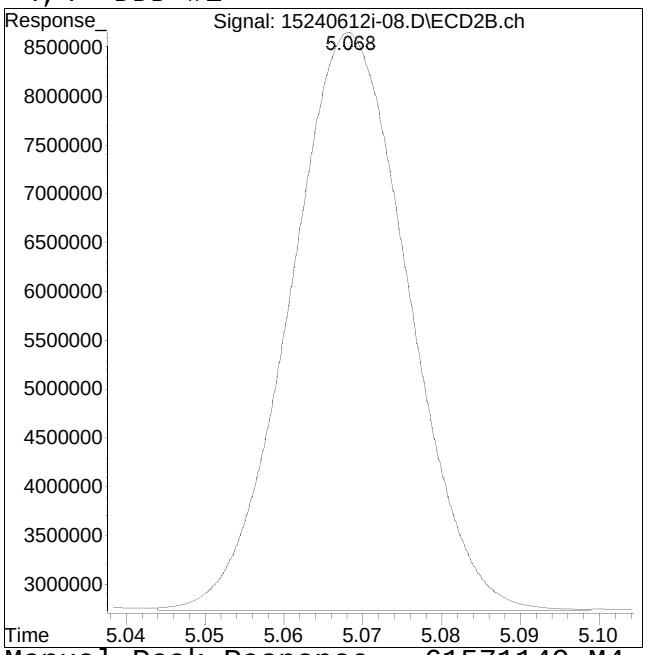
Original Peak Response = 79111721 Manual Peak Response = 73925358 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-08.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:42 Instrument : Pest 15
Sample : il7pest,42e,,pp 11567 L0.0Quant Date : 6/13/2024 9:10 am

Compound #57: 4,4'-DDD #2



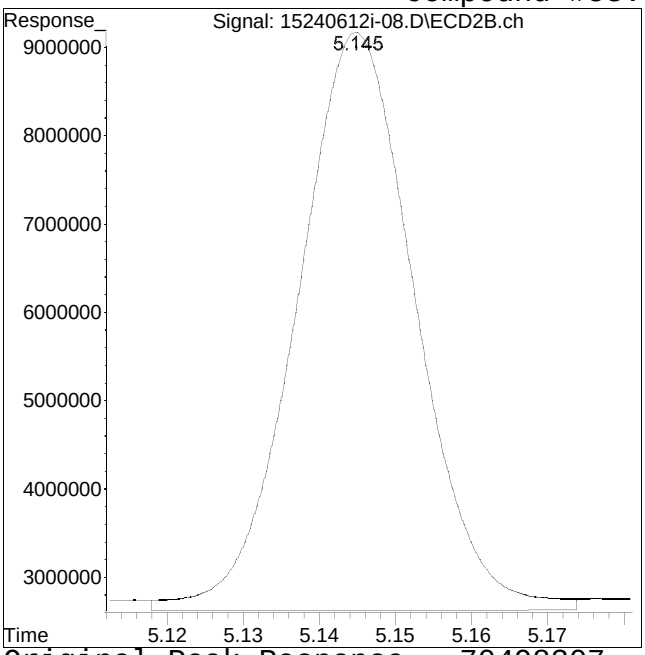


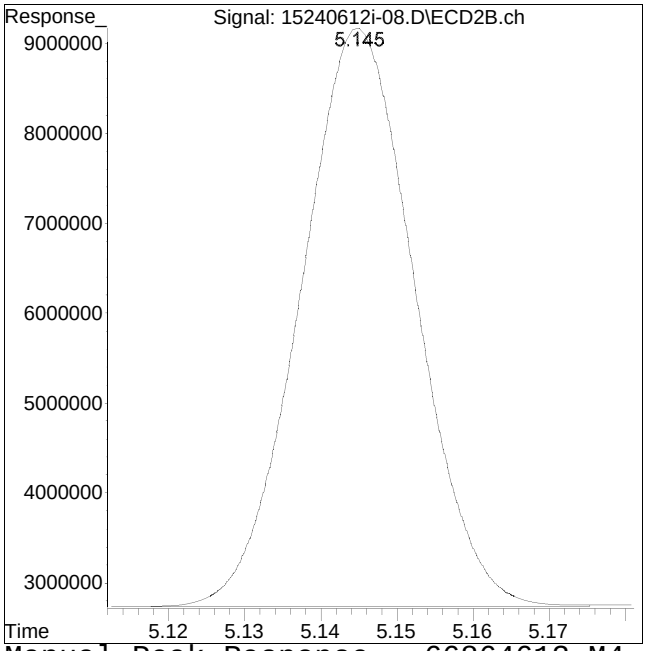
Original Peak Response = 65450196 Manual Peak Response = 61571149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-08.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:42 Instrument : Pest 15
Sample : il7pest,42e,,pp 11567 L0.0Quant Date : 6/13/2024 9:10 am

Compound #58: Endosulfan II #2



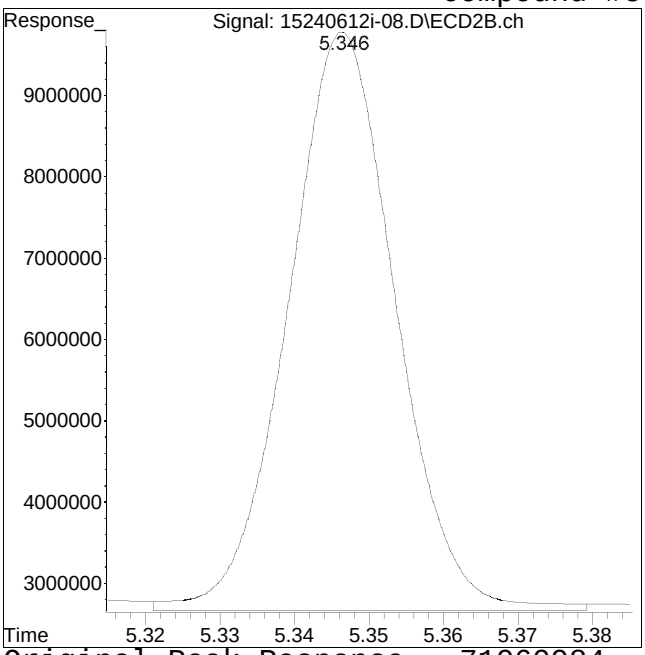


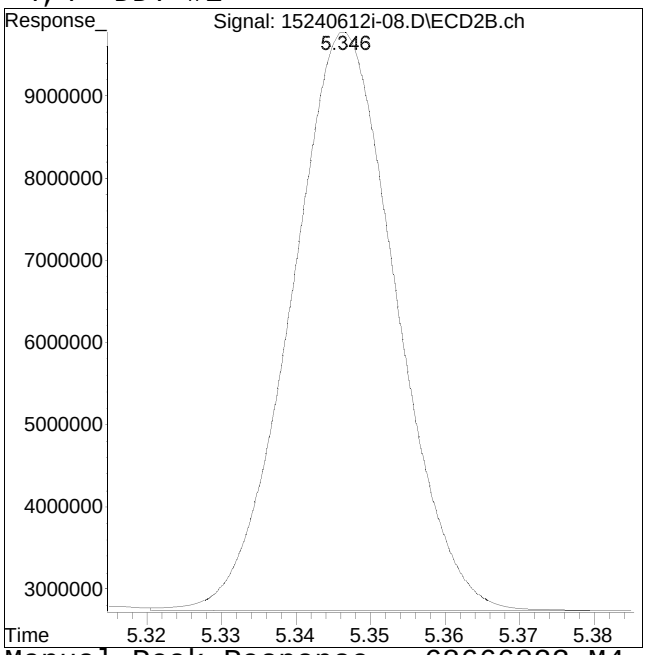
Original Peak Response = 70498307 Manual Peak Response = 66864613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-08.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:42 Instrument : Pest 15
Sample : il7pest,42e,,pp 11567 L0.0Quant Date : 6/13/2024 9:10 am

Compound #59: 4,4'-DDT #2



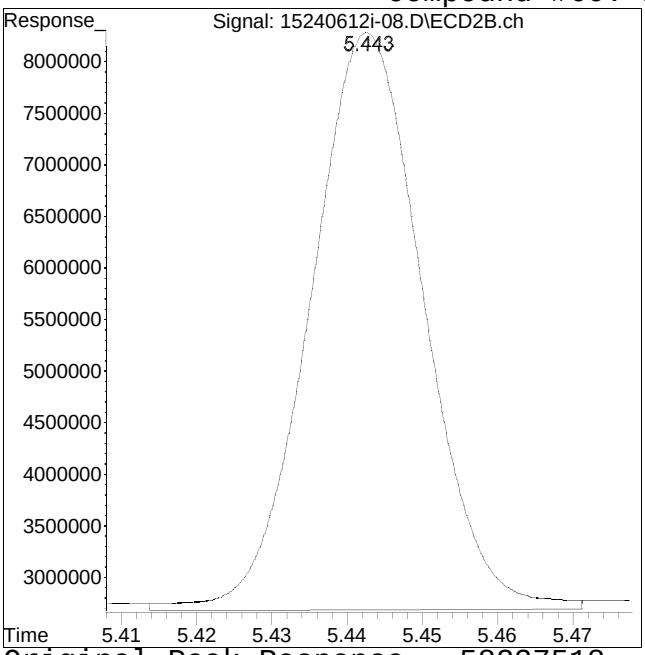


Original Peak Response = 71060984 Manual Peak Response = 68666823 M4
M4 = Poor automated baseline construction.

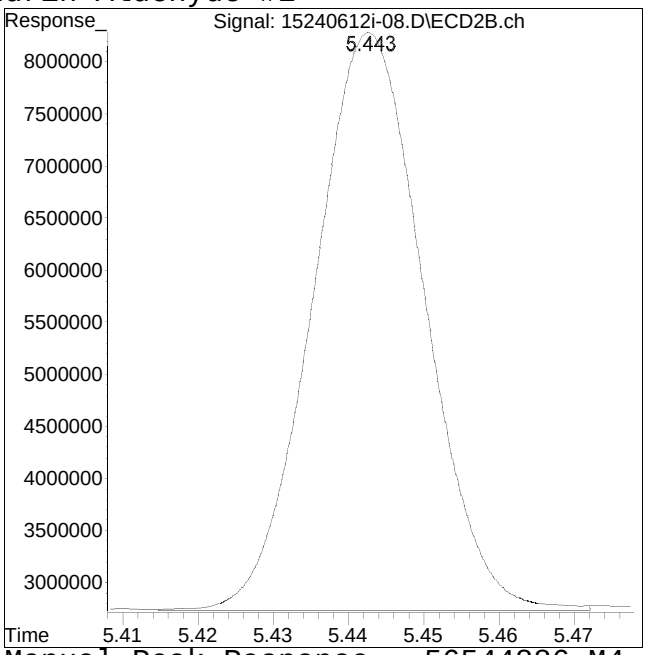
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-08.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:42 Instrument : Pest 15
Sample : il7pest,42e,,pp 11567 L0.0Quant Date : 6/13/2024 9:10 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 58237518



Manual Peak Response = 56544886 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:53
Operator : Pest15:kb
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:02:32 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:02:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.234	1.326	98217254	158.2E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.603	1.834	218.6E6	331.7E6	51.533	50.666
	Spiked Amount 50.000	Range 30 - 150		Recovery =		103.07%	101.33%
27) s	Decachlorobi	6.282	6.949	225.1E6	280.6E6	53.874	53.080
	Spiked Amount 50.000	Range 30 - 150		Recovery =		107.75%	106.16%
	Target Compounds						
3)	Hexachlorobe	1.823	2.164	229.0E6	339.2E6	51.951	50.989
4)	alpha-BHC	1.925	2.265	282.3E6	448.4E6	51.373	50.358
5)	gamma-BHC (l	2.131	2.556	261.1E6	409.8E6	51.646	50.554
6)	beta-BHC	2.189	2.621	121.4E6	183.8E6	51.925	50.841
7)	delta-BHC	2.318	2.892	262.6E6	416.4E6	51.447	50.367
8)	Heptachlor	2.482	2.959	250.7E6	394.7E6	52.354	51.156
9)	Aldrin	2.726	3.282	250.8E6	384.2E6	52.205	51.202
10)	Alachlor	2.847	3.166	42427748	63139096	53.517	52.525
11)	Chlorpyrifos	2.941	3.523	120.6E6	185.9E6	53.555	52.467
12)	Heptachlor E	3.270	3.904	240.4E6	365.3E6	52.512	51.555
13)	gamma-Chlord	3.395	4.125	223.3E6	333.3E6	52.517	51.392
14)	alpha-Chlord	3.529	4.297	254.5E6	371.3E6	52.702	51.678
15)	4,4'-DDE	3.628	4.494	258.6E6	389.8E6	52.717	51.802
16)	Endosulfan I	3.664	4.357	231.5E6	346.0E6	52.477	51.766
17)	Dieldrin	3.924	4.650	246.1E6	363.1E6	52.554	51.661
18)	Endrin	4.179	4.948	249.0E6	367.7E6	52.544	53.527
19)	4,4'-DDD	4.294	5.069	207.4E6	314.2E6	52.805	51.102
20)	Endosulfan I	4.423	5.146	221.9E6	324.9E6	52.847	51.977
21)	4,4'-DDT	4.591	5.347	222.6E6	345.4E6	52.672	58.285
22)	Endrin Aldeh	4.845	5.443	187.6E6	274.3E6	52.984	51.983
23)	Methoxychlor	5.087	5.914	130.0E6	182.6E6	54.338	52.957

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:53
Operator : Pest15:kb
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:02:32 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:02:17 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.140	6.053	200.7E6	262.3E6	54.034	52.964
25)	Endosulfan S	5.241	5.673	207.6E6	303.7E6	51.506M3	52.172
26)	Endrin Keton	5.469	6.086	241.0E6	347.4E6	53.432	52.530
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

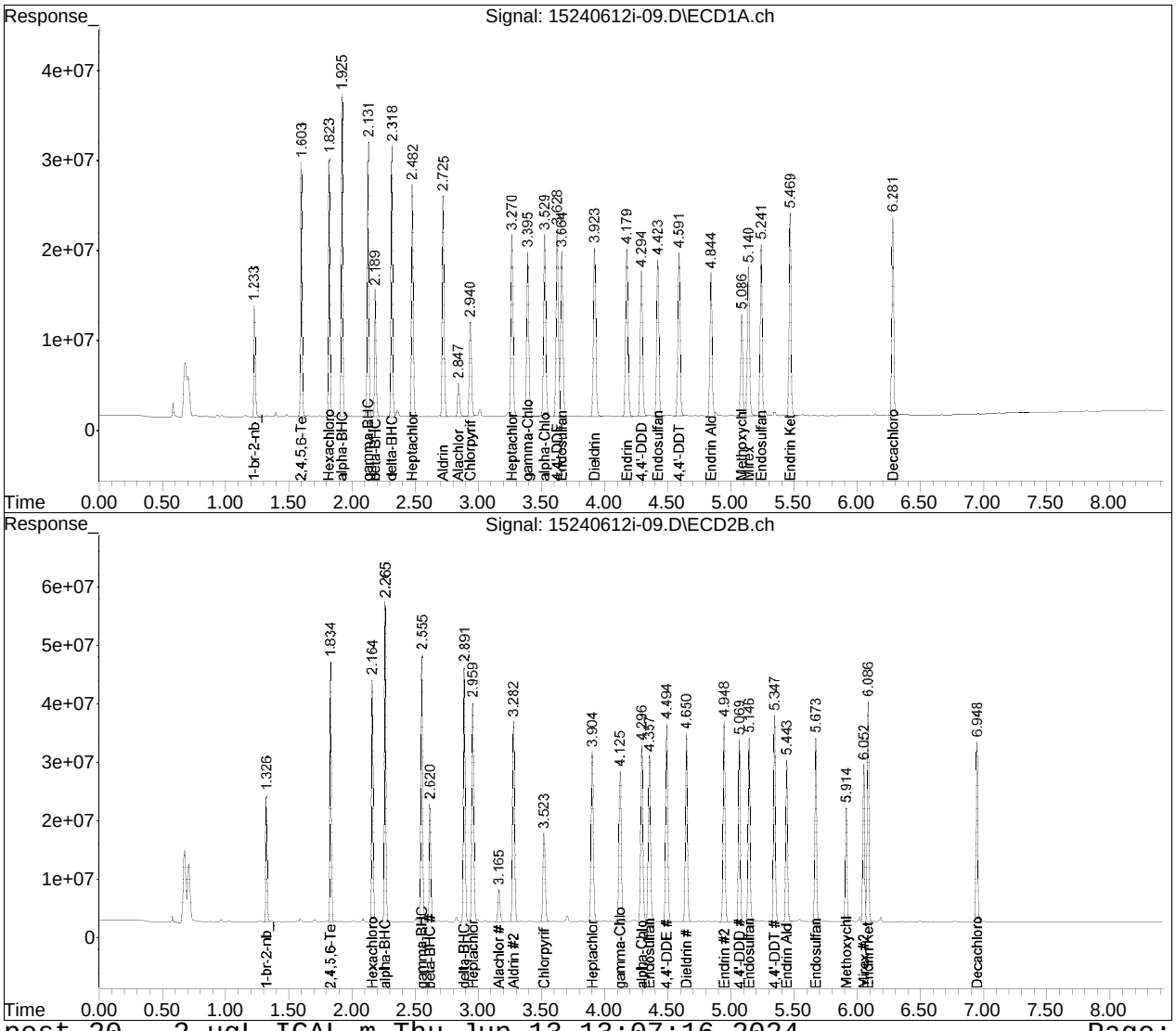
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 20:53
Operator : Pest15:kb
Sample : il8pest,42e,,pp 11566 L0.05
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:02:32 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:02:17 2024
Response via : Initial Calibration
Integrator: ChemStation

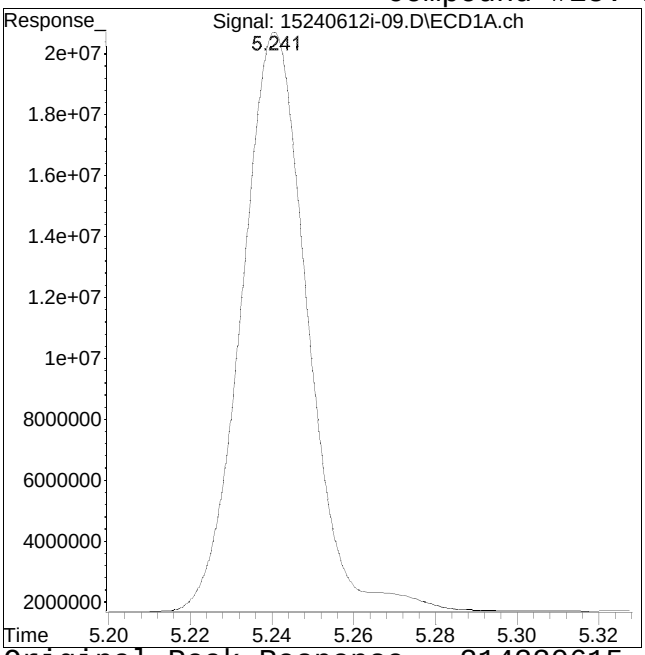
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

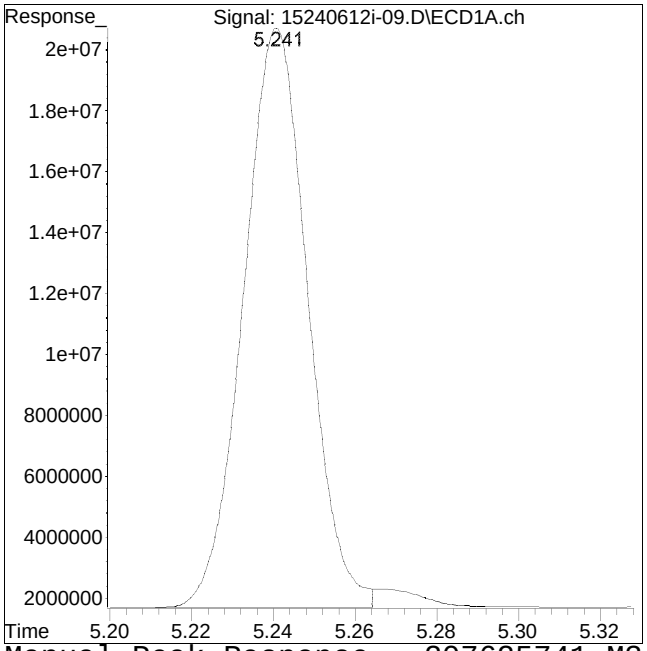


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-09.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 20:53 Instrument : Pest 15
Sample : il8pest,42e,,pp 11566 L0.0Quant Date : 6/13/2024 9:02 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 214330615 Manual Peak Response = 207625741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:04
Operator : Pest15:kb
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:04:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:04:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.238	1.329	100.3E6	157.1E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.605	1.836	419.6E6	641.4E6	96.933	98.668
	Spiked Amount 50.000	Range 30 - 150		Recovery =		193.87%#	197.34%#
27) s	Decachlorobi	6.282	6.949	393.4E6	492.6E6	92.252	93.841
	Spiked Amount 50.000	Range 30 - 150		Recovery =		184.50%#	187.68%#
	Target Compounds						
3)	Hexachlorobe	1.825	2.165	432.5E6	647.4E6	96.099	98.022
4)	alpha-BHC	1.927	2.266	545.5E6	877.9E6	97.254	99.284
5)	gamma-BHC (l	2.132	2.557	499.1E6	795.9E6	96.708	98.891
6)	beta-BHC	2.190	2.622	229.4E6	352.8E6	96.150	98.319
7)	delta-BHC	2.320	2.893	506.0E6	815.0E6	97.107	99.266
8)	Heptachlor	2.483	2.961	465.8E6	748.4E6	95.293	97.689
9)	Aldrin	2.726	3.283	468.8E6	727.2E6	95.590	97.596
10)	Alachlor	2.848	3.167	75231758	113.3E6	92.967	94.950
11)	Chlorpyrifos	2.942	3.524	213.6E6	334.4E6	92.891	95.066
12)	Heptachlor E	3.271	3.905	443.7E6	681.6E6	94.975	96.890
13)	gamma-Chlord	3.396	4.126	412.2E6	626.0E6	94.967	97.217
14)	alpha-Chlord	3.530	4.297	466.2E6	689.4E6	94.596	96.644
15)	4,4'-DDE	3.629	4.495	473.5E6	720.3E6	94.567	96.396
16)	Endosulfan I	3.665	4.358	428.0E6	640.2E6	95.045	96.467
17)	Dieldrin	3.925	4.651	453.6E6	674.7E6	94.892	96.678
18)	Endrin	4.180	4.948	459.2E6	677.0E6	94.913	96.136
19)	4,4'-DDD	4.294	5.069	378.5E6	576.6E6	94.390	96.131
20)	Endosulfan I	4.424	5.146	404.2E6	596.1E6	94.307	96.047
21)	4,4'-DDT	4.592	5.347	408.3E6	630.1E6	94.655	95.625
22)	Endrin Aldeh	4.845	5.443	339.9E6	503.1E6	94.033	96.034
23)	Methoxychlor	5.087	5.914	223.1E6	322.1E6	91.324	94.086

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:04
Operator : Pest15:kb
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:04:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:04:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.140	6.053	348.5E6	462.7E6	91.932	94.072
25)	Endosulfan S	5.241	5.673	377.0E6	553.0E6	91.621M3	95.657
26)	Endrin Keton	5.470	6.086	428.7E6	623.4E6	93.136	94.940
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

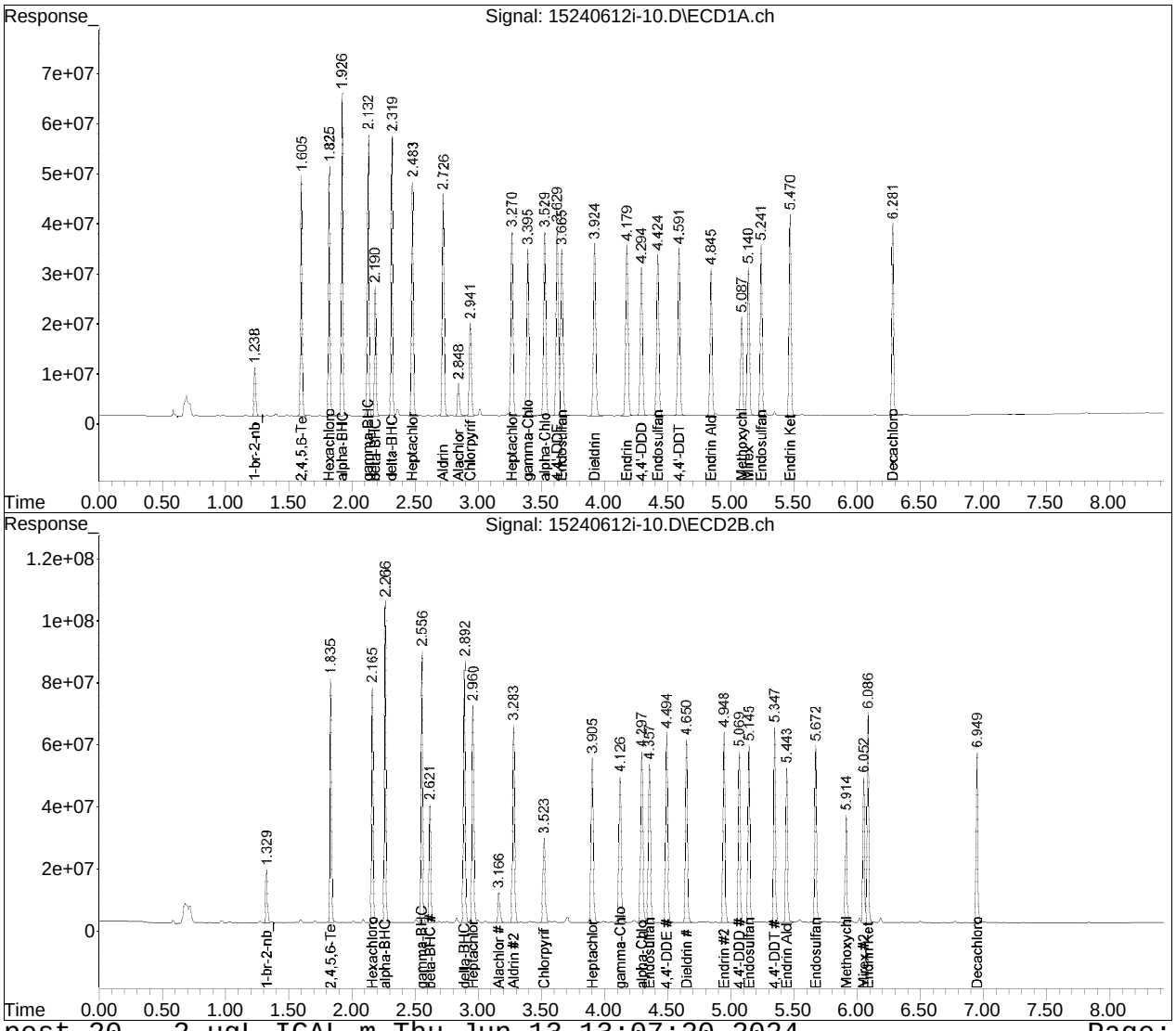
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-10.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:04
Operator : Pest15:kb
Sample : il9pest,42e,,pp 11565 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:04:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:04:46 2024
Response via : Initial Calibration
Integrator: ChemStation

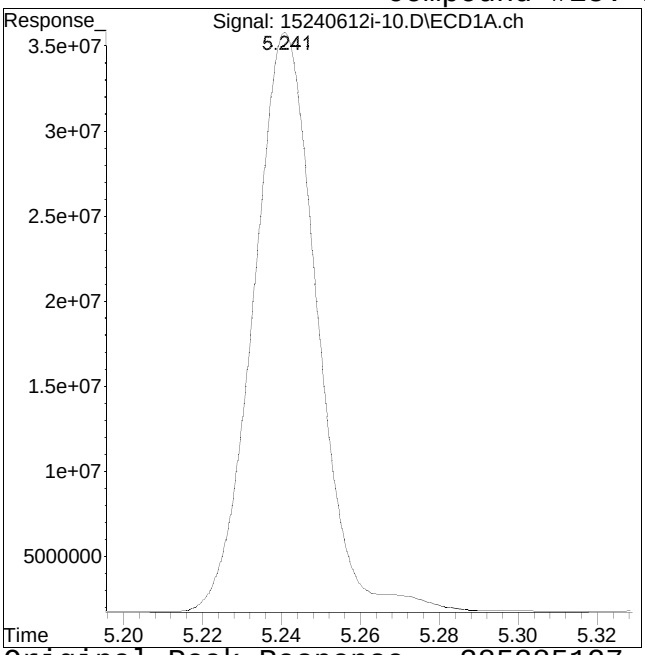
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

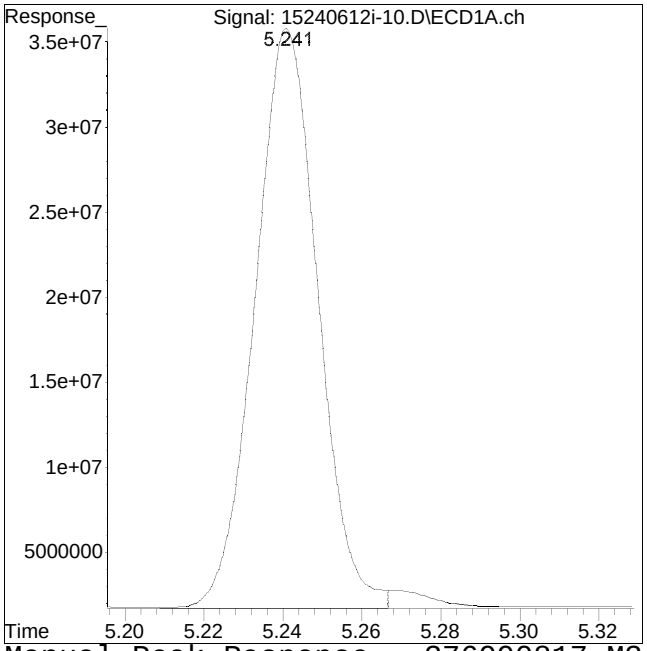


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-10.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 21:04 Instrument : Pest 15
Sample : il9pest,42e,,pp 11565 L0.1Quant Date : 6/13/2024 9:04 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 385385127 Manual Peak Response = 376990817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:15
Operator : Pest15:kb
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:27:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:27:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.233	1.326	97511526	151.8E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.603	1.834	768.9E6	1213.8E6	173.964	196.120
	Spiked Amount 50.000	Range 30 - 150		Recovery =		347.93%#	392.24%#
27) s	Decachlorobi	6.281	6.948	721.1E6	937.3E6	187.188	205.218
	Spiked Amount 50.000	Range 30 - 150		Recovery =		374.38%#	410.44%#
	Target Compounds						
3)	Hexachlorobe	1.823	2.164	796.4E6	1230.4E6	177.092	197.505
4)	alpha-BHC	1.925	2.265	1024.8E6	1691.3E6	194.056	218.396
5)	gamma-BHC (l	2.130	2.556	930.7E6	1526.4E6	180.496	203.458
6)	beta-BHC	2.188	2.620	426.8E6	666.1E6	157.356	174.268
7)	delta-BHC	2.318	2.892	951.4E6	1570.3E6	191.467	214.021
8)	Heptachlor	2.481	2.959	854.3E6	1401.9E6	173.516	198.389
9)	Aldrin	2.725	3.282	862.0E6	1375.5E6	178.992	205.292
10)	Alachlor	2.846	3.165	132.7E6	203.9E6	147.966	163.294
11)	Chlorpyrifos	2.940	3.523	382.3E6	597.9E6	318.796	321.084
12)	Heptachlor E	3.269	3.904	811.9E6	1269.1E6	170.559	192.359
13)	gamma-Chlord	3.394	4.125	761.8E6	1185.7E6	170.761	195.003
14)	alpha-Chlord	3.528	4.296	857.0E6	1299.3E6	170.033	193.188
15)	4,4'-DDE	3.627	4.494	871.5E6	1358.9E6	176.644	205.523
16)	Endosulfan I	3.663	4.357	786.5E6	1193.4E6	170.849	191.672
17)	Dieldrin	3.923	4.650	839.4E6	1268.5E6	177.878	200.170
18)	Endrin	4.178	4.947	845.9E6	1260.9E6	176.064	194.318
19)	4,4'-DDD	4.293	5.069	702.6E6	1085.8E6	179.217	199.313
20)	Endosulfan I	4.423	5.145	744.7E6	1110.4E6	171.905	187.966
21)	4,4'-DDT	4.590	5.347	739.2E6	1185.0E6	187.482	198.053
22)	Endrin Aldeh	4.844	5.443	626.8E6	938.4E6	173.848	186.037
23)	Methoxychlor	5.085	5.913	401.3E6	586.7E6	255.782	263.881

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:15
Operator : Pest15:kb
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:27:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:27:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.139	6.052	632.3E6	859.4E6	320.340	327.192
25)	Endosulfan S	5.239	5.672	692.0E6	1031.1E6	165.126M3	185.963
26)	Endrin Keton	5.469	6.086	782.6E6	1159.3E6	166.303	186.359
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

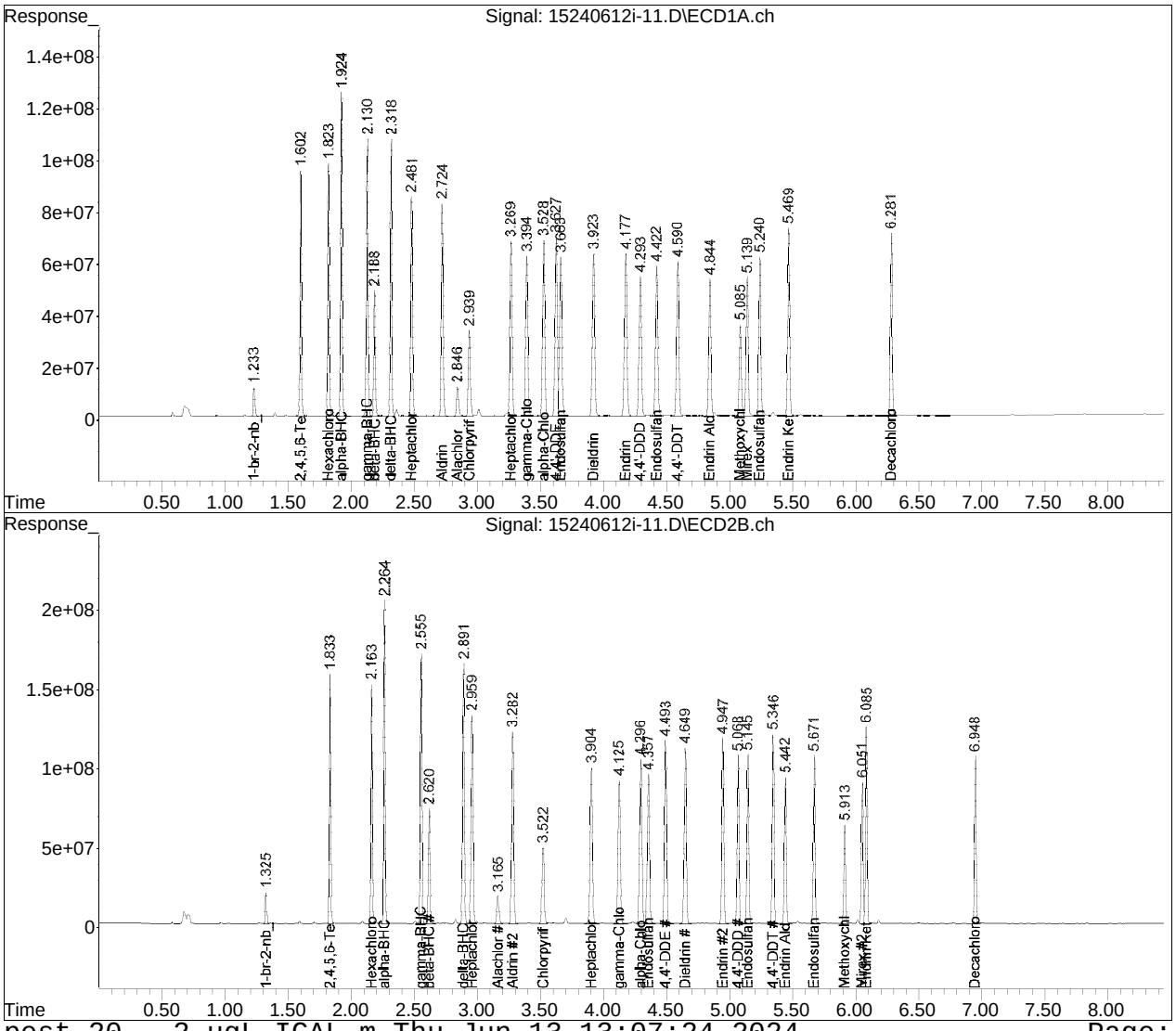
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-11.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:15
Operator : Pest15:kb
Sample : il10pest,42e,,pp 11564 L0.2
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:27:55 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:27:24 2024
Response via : Initial Calibration
Integrator: ChemStation

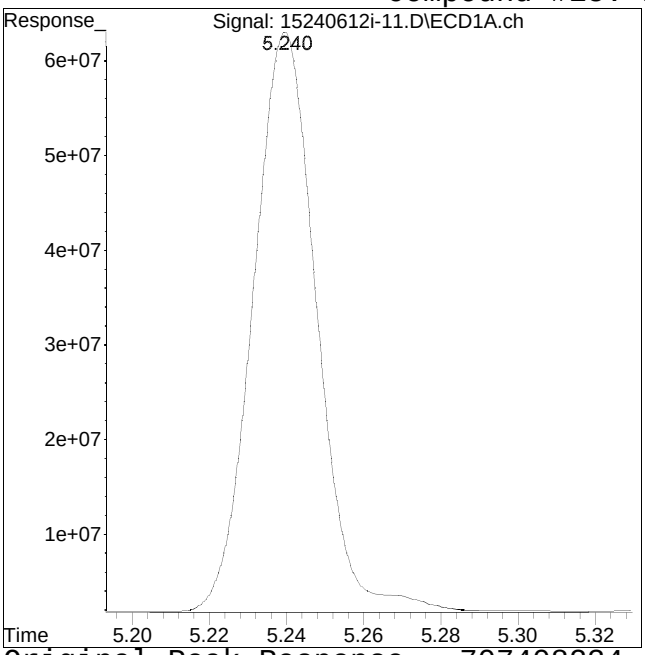
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

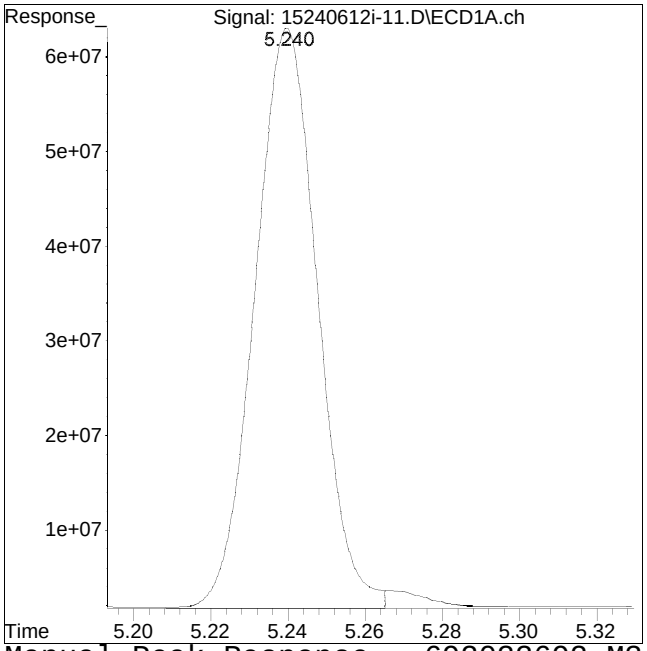


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-11.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 21:15 Instrument : Pest 15
Sample : il10pest,42e,,pp 11564 L0.Quant Date : 6/13/2024 12:27 pm

Compound #25: Endosulfan Sulfate





Original Peak Response = 707408234 Manual Peak Response = 692033692 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:26
Operator : Pest15:kb
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:08:10 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.232	1.325	100.8E6	156.2E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.602	1.833	1464.3E6	2418.4E6	346.400	378.540
	Spiked Amount 50.000	Range 30 - 150		Recovery =		692.80%#	757.08%#
27) s	Decachlorobi	6.281	6.948	1508.5E6	2040.0E6	367.820	401.166
	Spiked Amount 50.000	Range 30 - 150		Recovery =		735.64%#	802.33%#
	Target Compounds						
3)	Hexachlorobe	1.823	2.164	1548.9E6	2488.0E6	352.888	383.606
4)	alpha-BHC	1.925	2.265	2019.2E6	3464.7E6	365.415	395.585
5)	gamma-BHC (l	2.130	2.556	1836.1E6	3120.8E6	362.613	392.565
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	2.318	2.892	1893.1E6	3217.6E6	368.838	395.662
8)	Heptachlor	2.482	2.959	1654.9E6	2771.6E6	348.499	370.528
9)	Aldrin	2.725	3.282	1687.1E6	2773.3E6	353.448	380.143
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	2.940	3.523	733.8E6	1144.1E6	333.525	340.911
12)	Heptachlor E	3.270	3.905	1589.3E6	2526.3E6	350.737	369.481
13)	gamma-Chlord	3.395	4.126	1520.5E6	2434.7E6	360.091	386.500
14)	alpha-Chlord	3.529	4.297	1715.2E6	2674.7E6	358.783	384.615
15)	4,4'-DDE	3.628	4.494	1738.4E6	2790.0E6	357.813	383.201
16)	Endosulfan I	3.664	4.358	1560.5E6	2392.0E6	356.795	371.229
17)	Dieldrin	3.924	4.650	1674.8E6	2570.7E6	360.079	378.089
18)	Endrin	4.179	4.948	1692.8E6	2554.9E6	360.093	374.391
19)	4,4'-DDD	4.294	5.069	1425.4E6	2254.9E6	365.628	386.191
20)	Endosulfan I	4.423	5.145	1487.5E6	2251.0E6	357.863	374.185
21)	4,4'-DDT	4.591	5.347	1545.6E6	2494.6E6	371.079	390.277
22)	Endrin Aldeh	4.845	5.443	1267.9E6	1924.8E6	361.908	378.877
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:26
Operator : Pest15:kb
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:08:10 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.141	6.052	1286.6E6	1813.3E6	354.346	383.188
25)	Endosulfan S	5.240	5.672	1384.7E6	2124.3E6	348.130M3	379.463
26)	Endrin Keton	5.470	6.086	1566.7E6	2374.3E6	353.282	374.562
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

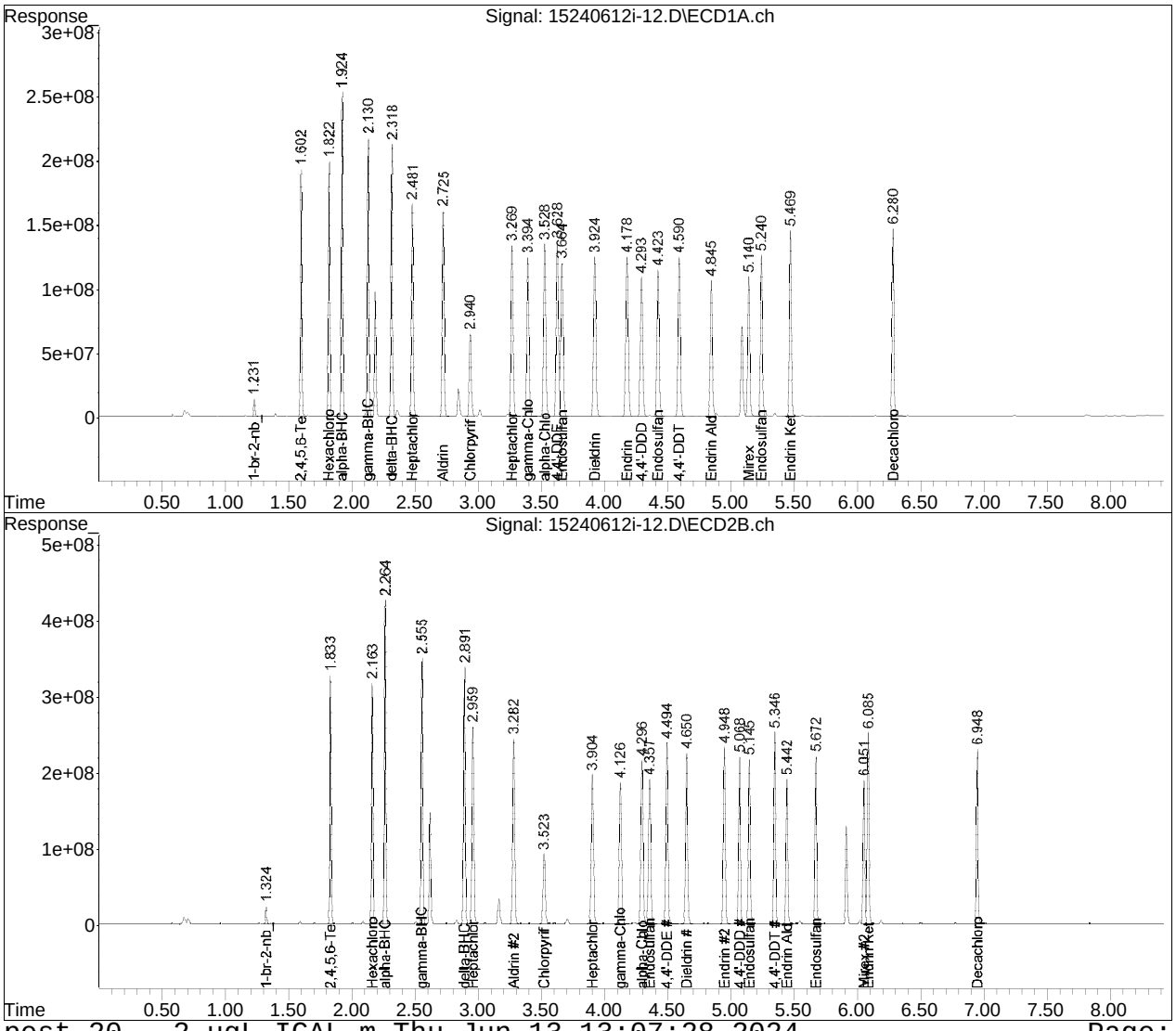
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-12.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:26
Operator : Pest15:kb
Sample : il11pest,42e,,pp 11563 L0.4
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:08:10 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:07:55 2024
Response via : Initial Calibration
Integrator: ChemStation

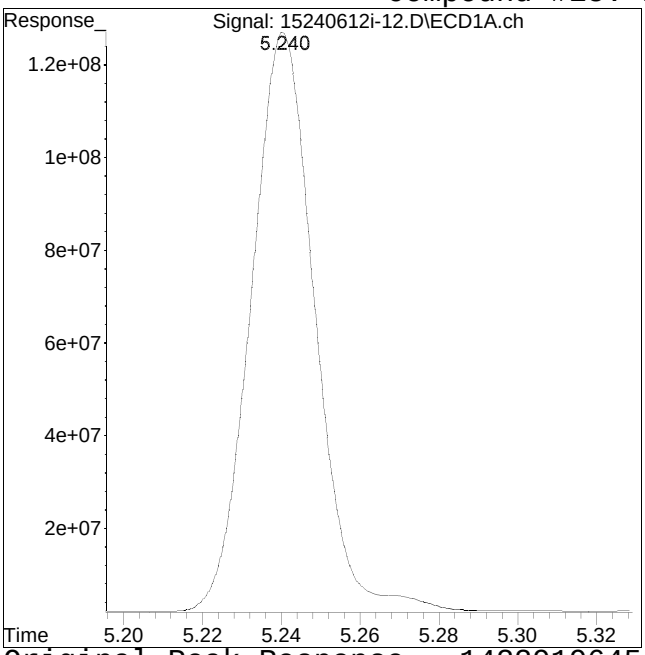
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

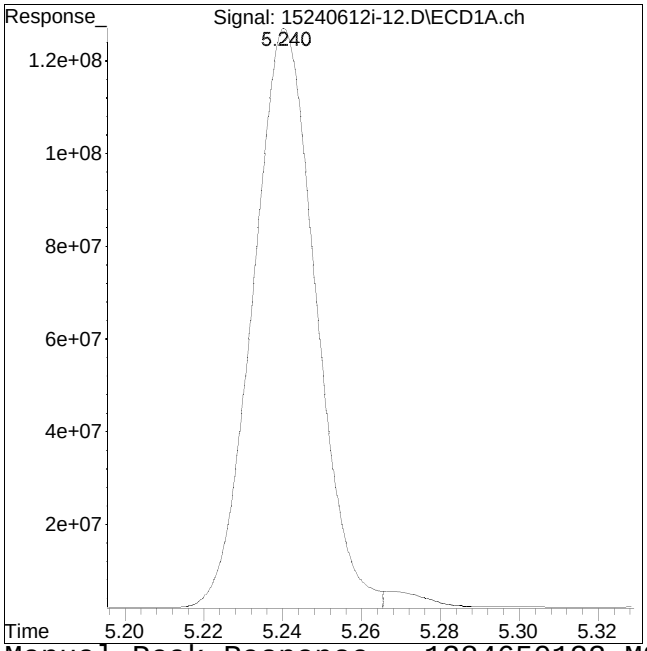


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-12.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 21:26 Instrument : Pest 15
Sample : il11pest,42e,,pp 11563 L0.Quant Date : 6/13/2024 9:08 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 1422919645 Manual Peak Response = 1384650133 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	1.201	2.4	102	0.00
3		Hexachlorobenzene		1.269	1.233	2.8	100	0.00
4		alpha-BHC		1.490	1.525	-2.3	100	0.00
5		gamma-BHC (lindane)		1.433	1.364	4.8	97	0.00
6		beta-BHC		0.728	0.650	10.7	100	0.00
7		delta-BHC		1.402	1.338	4.6	95	0.00
8		Heptachlor		1.373	1.322	3.7	98	0.00
9		Aldrin		1.347	1.325	1.6	98	0.00
10		Alachlor		0.241	0.223	7.5	98	0.00
11		Chlorpyrifos	*	50.000	58.543	-17.1	97	0.00
12		Heptachlor Epoxide		1.326	1.246	6.0	96	0.00
13		gamma-Chlordane (trans)		1.246	1.301	-4.4	108	0.00
14		alpha-Chlordane (cis)		1.407	1.296	7.9	95	0.00
15		4,4'-DDE		1.381	1.307	5.4	94	0.00
16		Endosulfan I		1.284	1.188	7.5	95	0.00
17		Dieldrin		1.322	1.360	-2.9	103	0.00
18		Endrin		1.345	1.274	5.3	95	0.00
19		4,4'-DDD		1.101	1.110	-0.8	99	0.00
20		Endosulfan II		1.210	1.166	3.6	98	0.00
21		4,4'-DDT		1.113	1.160	-4.2	97	0.00
22		Endrin Aldehyde		1.009	0.881	12.7	87	0.00
23		Methoxychlor	*	50.000	59.609	-19.2	95	0.00
24		Mirex	*	50.000	59.765	-19.5	95	0.00
25		Endosulfan Sulfate		1.203	1.090	9.4	98	0.00
26		Endrin Ketone		1.311	1.296	1.1	100	0.00
27	s	Decachlorobiphenyl		1.070	1.217	-13.7	100	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	1.145	-1.8	101	0.00
3		Hexachlorobenzene		1.149	1.161	-1.0	100	0.00
4		alpha-BHC		1.429	1.520	-6.4	100	0.00
5		gamma-BHC (lindane)		1.360	1.369	-0.7	98	0.00
6		beta-BHC		0.663	0.620	6.5	99	0.00
7		delta-BHC		1.351	1.348	0.2	95	0.00
8		Heptachlor		1.285	1.322	-2.9	98	0.00
9		Aldrin		1.225	1.287	-5.1	98	0.00
10		Alachlor		0.217	0.215	0.9	100	0.00
11		Chlorpyrifos	*	50.000	58.335	-16.7	98	0.00
12		Heptachlor Epoxide		1.197	1.197	0.0	96	0.00
13		gamma-Chlordane (trans)		1.108	1.240	-11.9	109	0.00
14		alpha-Chlordane (cis)		1.225	1.212	1.1	96	0.00
15		4,4'-DDE		1.211	1.250	-3.2	94	0.00
16		Endosulfan I		1.130	1.122	0.7	95	0.00
17		Dieldrin		1.156	1.277	-10.5	103	0.00
18		Endrin		1.180	1.186	-0.5	95	0.00
19		4,4'-DDD		0.996	1.061	-6.5	99	0.00
20		Endosulfan II		1.071	1.078	-0.7	97	0.00
21		4,4'-DDT		1.095	1.107	-1.1	94	0.00
22		Endrin Aldehyde		0.915	0.816	10.8	87	0.00
23		Methoxychlor	*	50.000	57.641	-15.3	95	0.00
24		Mirex	*	50.000	56.951	-13.9	96	0.00
25		Endosulfan Sulfate		1.025	1.000	2.4	97	0.00
26		Endrin Ketone		1.128	1.184	-5.0	100	0.00
27	s	Decachlorobiphenyl		0.850	0.918	-8.0	96	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample   : cicvpest,42e,,pp 11604 L0.05ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.23#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.48#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.84#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.39#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.52#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.23#
34	l2	toxaphene-1		0.065	0.000	100.0#	0#	-4.41#
35	l2	toxaphene-2		0.046	0.000	100.0#	0#	-4.54#
36	l2	toxaphene-4		0.040	0.000	100.0#	0#	-4.96#
37	l2	toxaphene-5		0.048	0.000	100.0#	0#	-5.15#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1		0.074	0.000	100.0#	0#	-2.96#
30	l1	chlordane-3		0.043	0.000	100.0#	0#	-3.44#
31	l1	chlordane-4		0.148	0.000	100.0#	0#	-4.13#
32	l1	chlordane-5		0.116	0.000	100.0#	0#	-4.30#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.33#
34	l2	toxaphene-1		0.035	0.000	100.0#	0#	-5.13#
35	l2	toxaphene-2		0.066	0.000	100.0#	0#	-5.22#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.45#
37	l2	toxaphene-5		0.038	0.000	100.0#	0#	-5.86#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.235	1.328	92894458	146.8E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.604	1.835	223.1E6	336.2E6	48.785	50.867
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.57%	101.73%
27) s	Decachlorobi	6.282	6.950	226.1E6	269.6E6	56.845	54.030
	Spiked Amount 50.000	Range 30 - 150		Recovery =		113.69%	108.06%
	Target Compounds						
3)	Hexachlorobe	1.824	2.164	229.1E6	340.8E6	48.576	50.510
4)	alpha-BHC	1.926	2.265	283.3E6	446.4E6	51.159	53.203
5)	gamma-BHC (l	2.131	2.556	253.4E6	401.9E6	47.585	50.335
6)	beta-BHC	2.189	2.621	120.8E6	182.0E6	44.654	46.751
7)	delta-BHC	2.319	2.892	248.7E6	395.7E6	47.730	49.885
8)	Heptachlor	2.482	2.960	245.6E6	388.1E6	48.153	51.452
9)	Aldrin	2.725	3.282	246.1E6	377.8E6	49.165	52.510
10)	Alachlor	2.847	3.166	41382848	63190366	46.249	49.650
11)	Chlorpyrifos	2.941	3.524	116.5E6	181.8E6	58.543	58.335
12)	Heptachlor E	3.270	3.905	231.5E6	351.4E6	46.971	50.016
13)	gamma-Chlord	3.395	4.126	241.7E6	364.1E6	52.214	55.942
14)	alpha-Chlord	3.529	4.297	240.8E6	355.8E6	46.069	49.472
15)	4,4'-DDE	3.628	4.494	242.9E6	367.1E6	47.331	51.606
16)	Endosulfan I	3.664	4.358	220.7E6	329.4E6	46.246	49.670
17)	Dieldrin	3.924	4.650	252.6E6	374.9E6	51.424	55.223
18)	Endrin	4.179	4.948	236.7E6	348.2E6	47.359	50.256
19)	4,4'-DDD	4.294	5.069	206.2E6	311.6E6	50.398	53.284
20)	Endosulfan I	4.424	5.146	216.7E6	316.5E6	48.191	50.336
21)	4,4'-DDT	4.591	5.347	215.6E6	325.2E6	52.108	50.588
22)	Endrin Aldeh	4.845	5.443	163.7E6	239.6E6	43.639	44.623
23)	Methoxychlor	5.086	5.914	124.2E6	174.1E6	59.609	57.641

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.140	6.053	191.2E6	250.8E6	59.765	56.951
25)	Endosulfan S	5.241	5.673	202.4E6	293.6E6	45.292	48.775
26)	Endrin Keton	5.469	6.086	240.8E6	347.6E6	49.448	52.491
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

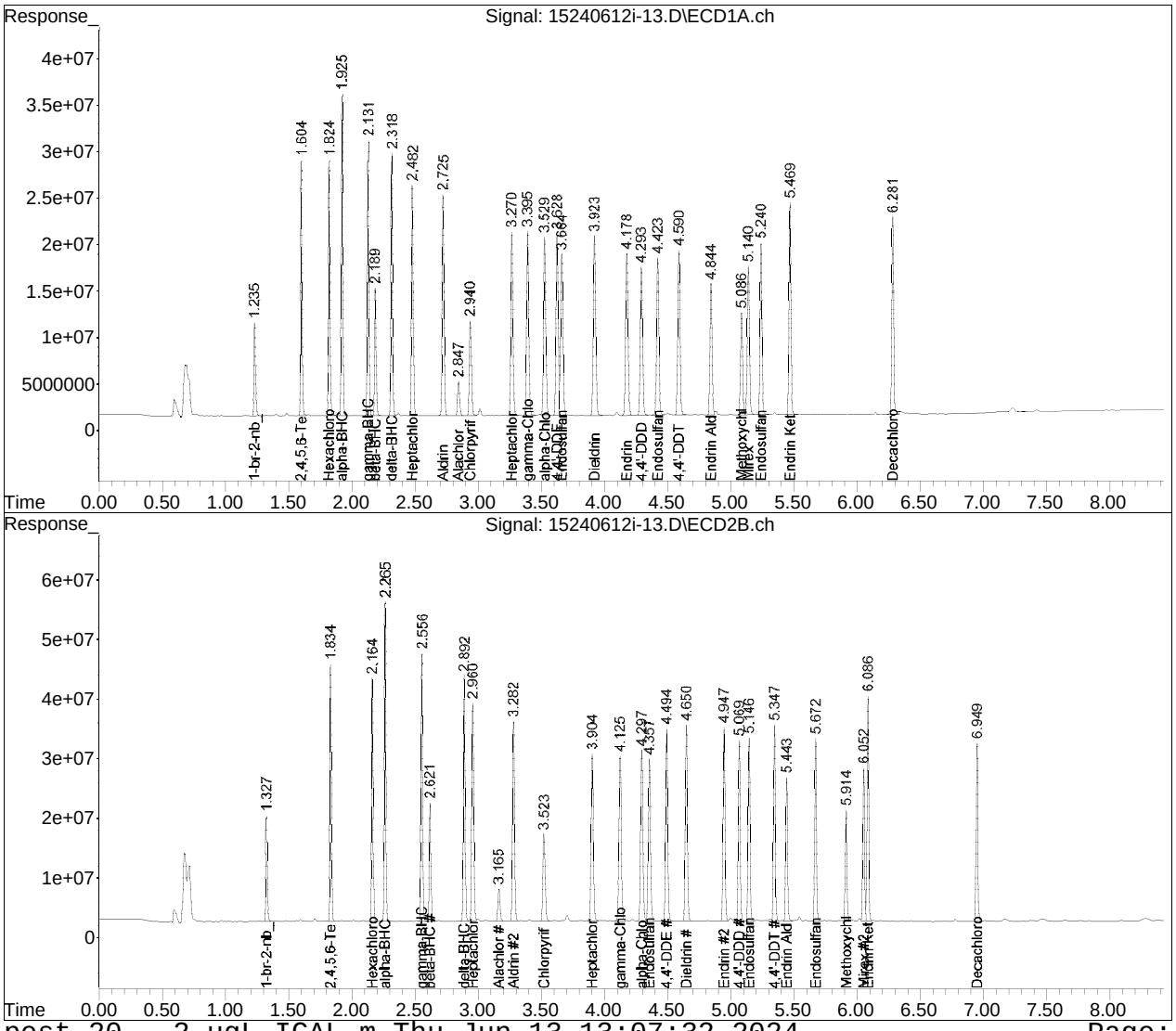
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-13.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:38
Operator : Pest15:kb
Sample : cicvpest,42e,,pp 11604 L0.05ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:01:01 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 13:00:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612Q	Method	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-13.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 21:38	Instrument	: Pest 15
Sample	: cicvpest,42e,,pp 11604 L0	Quant Date	: 6/13/2024 1:01 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:49
Operator : Pest15:kb
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:36:44 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:36:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.236	1.328	99170046	158.6E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:49
Operator : Pest15:kb
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:36:44 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:36:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.481	2.960	3992777	5633865	14.020	13.224
30) l1	chlordane-3	2.837	3.436	2792585	3255899	14.374	13.057
31) l1	chlordane-4	3.394	4.126	9589434	11638220	14.614	13.772
32) l1	chlordane-5	3.520	4.297	14022956	8894689	14.199M1	13.348
Sum	chlordane-1			30397752	29422674	NoCal	NoCal D
Average	chlordane-1					14.302	13.351
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D.	N.D.
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

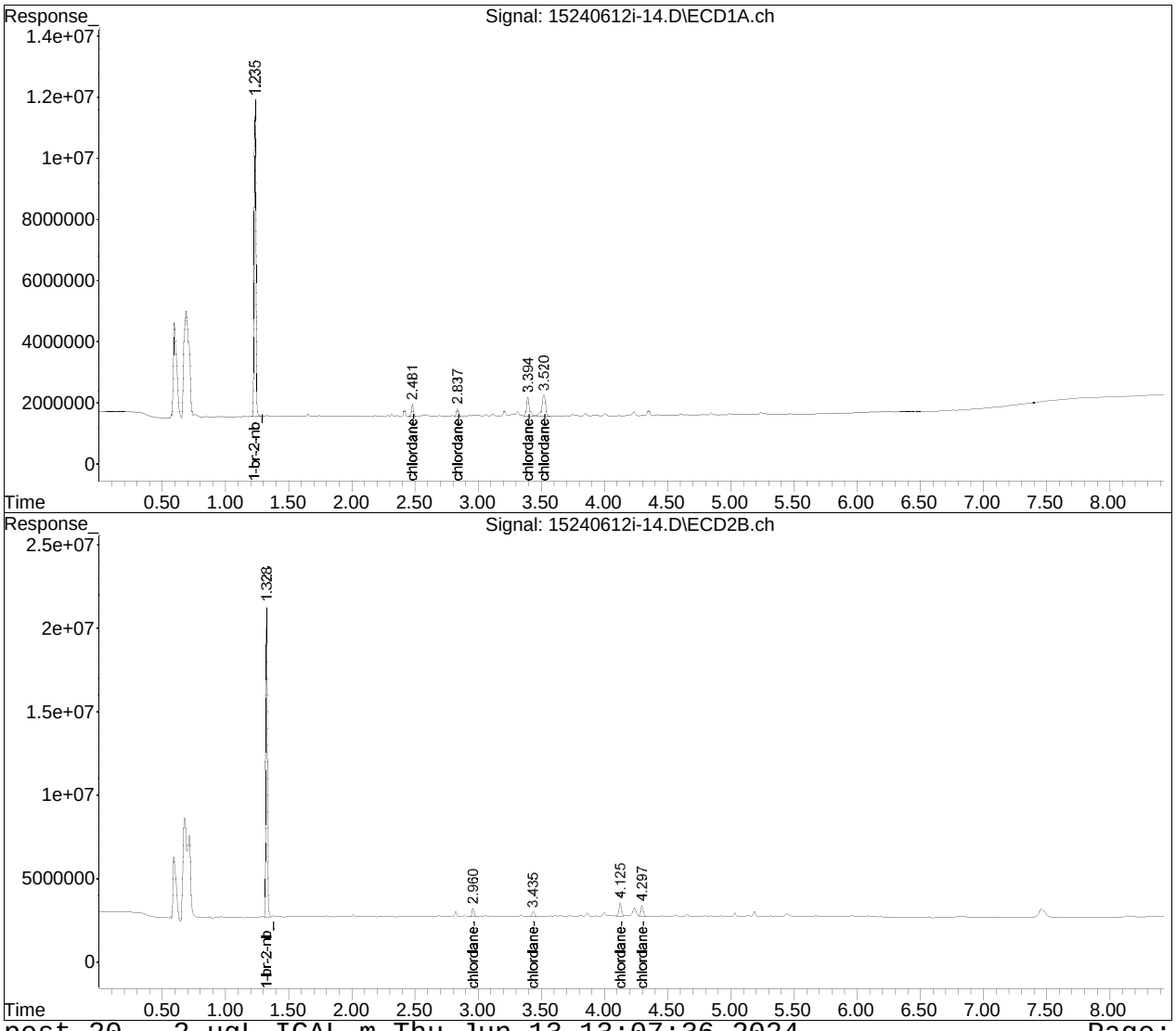
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 21:49
Operator : Pest15:kb
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:36:44 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:36:33 2024
Response via : Initial Calibration
Integrator: ChemStation

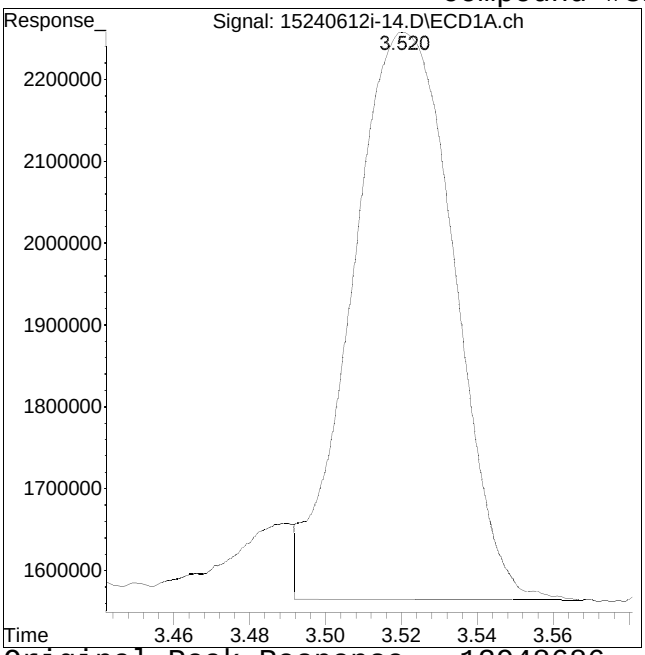
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

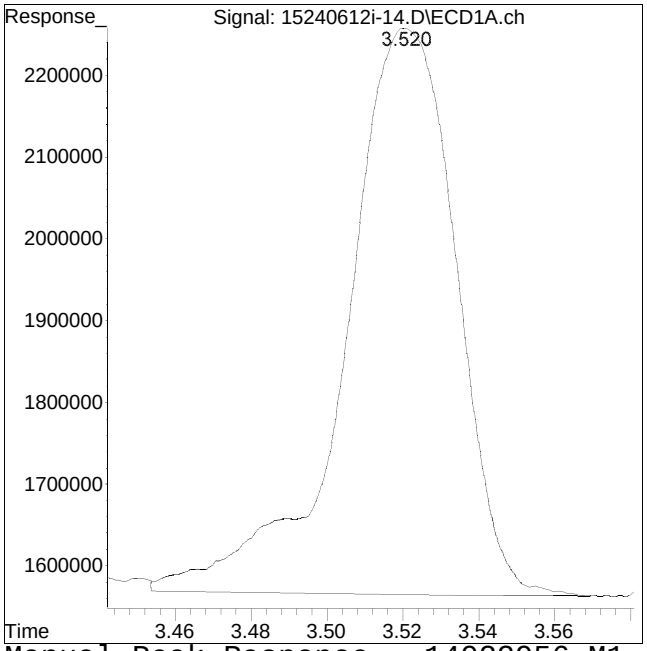


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-14.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 21:49 Instrument : Pest 15
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 6/13/2024 9:36 am

Compound #32: chlordane-5





Original Peak Response = 12948686 Manual Peak Response = 14022956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:00
Operator : Pest15:kb
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:35:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:35:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.234	1.326	101.0E6	162.4E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:00
Operator : Pest15:kb
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:35:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:35:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.481	2.959	7187641	10850260	26.027	26.150
30) l1	chlordane-3	2.836	3.436	5388061	6555374	29.355	27.222
31) l1	chlordane-4	3.394	4.125	16993527	21406233	26.889	25.972
32) l1	chlordane-5	3.521	4.297	25345460	17063264	26.584M1	26.329
Sum	chlordane-1			54914689	55875130	NoCal	NoCal D
Average	chlordane-1					27.214	26.418
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

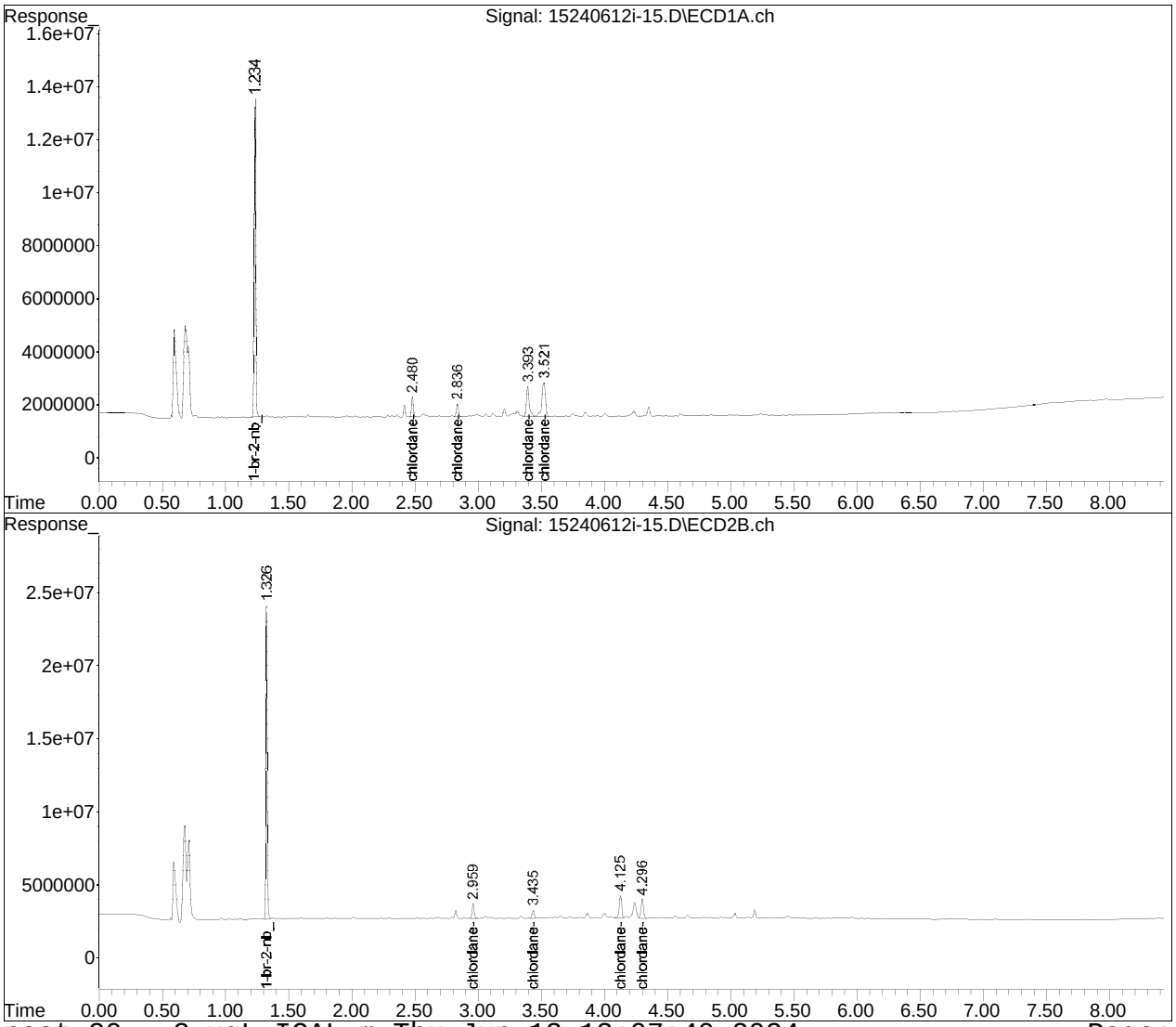
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:00
Operator : Pest15:kb
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:35:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:35:40 2024
Response via : Initial Calibration
Integrator: ChemStation

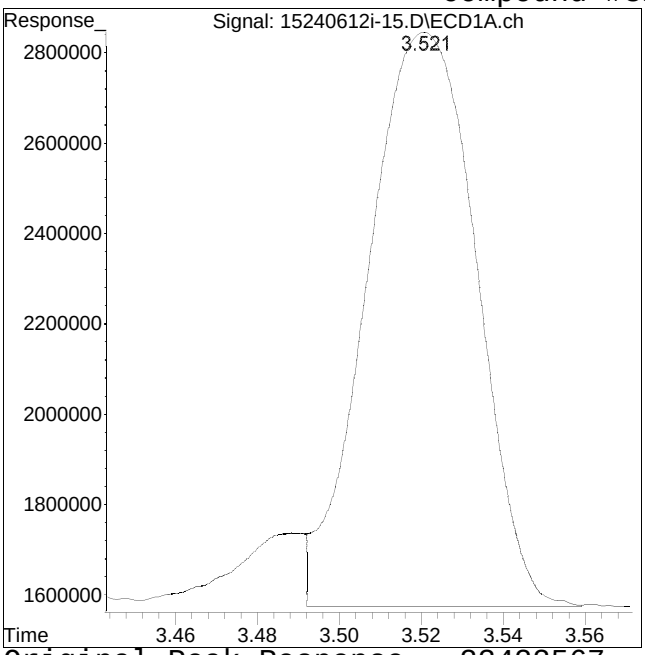
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

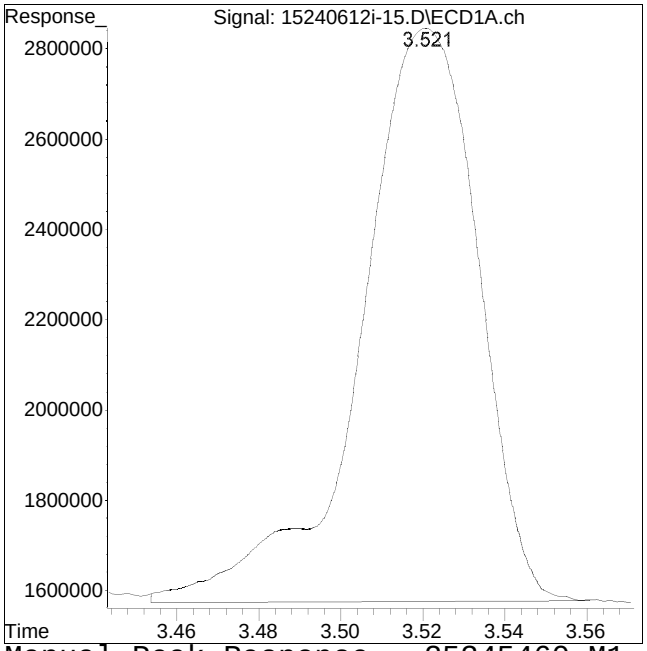


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-15.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 22:00 Instrument : Pest 15
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 6/13/2024 9:35 am

Compound #32: chlordane-5





Original Peak Response = 23422567 Manual Peak Response = 25345460 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:11
Operator : Pest15:kb
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:34:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:34:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.234	1.326	104.6E6	172.3E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:11
Operator : Pest15:kb
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:34:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:34:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.481	2.959	32346628	49631267	116.913	116.453
30)	l1	chlordane-3	2.837	3.436	23140996	29935208	128.717	122.420
31)	l1	chlordane-4	3.394	4.125	73849582	97360552	116.558	114.590
32)	l1	chlordane-5	3.521	4.297	113.6E6	77334425	119.475M1	116.096
		Sum chlordane-1			242.9E6	254.3E6	NoCal	NoCal D
Average		chlordane-1					120.416	117.390
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

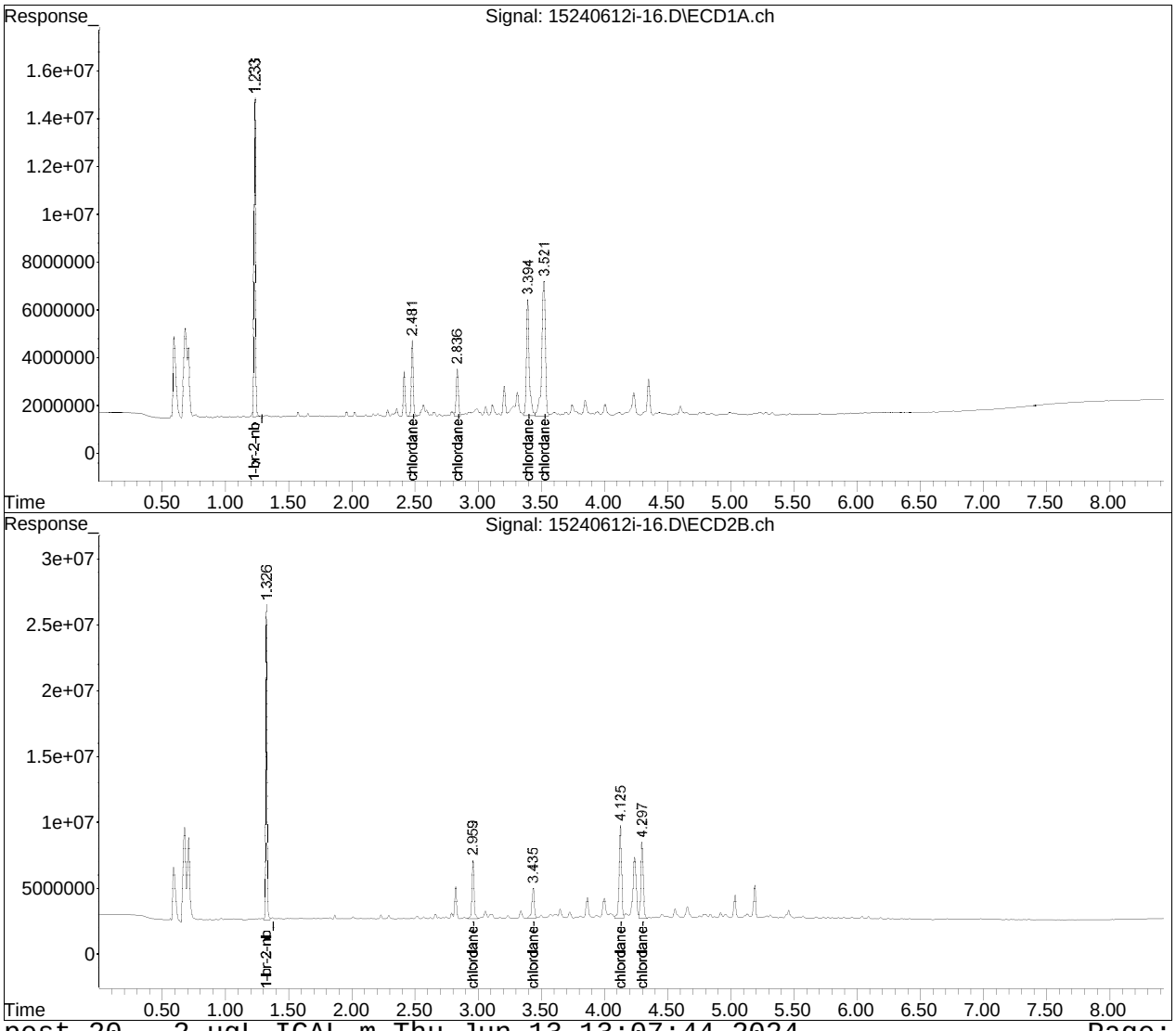
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:11
Operator : Pest15:kb
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:34:49 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:34:33 2024
Response via : Initial Calibration
Integrator: ChemStation

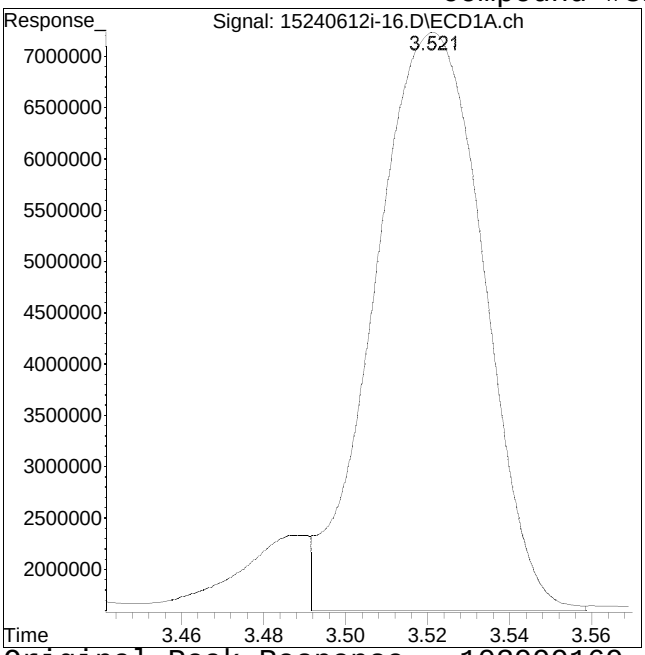
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

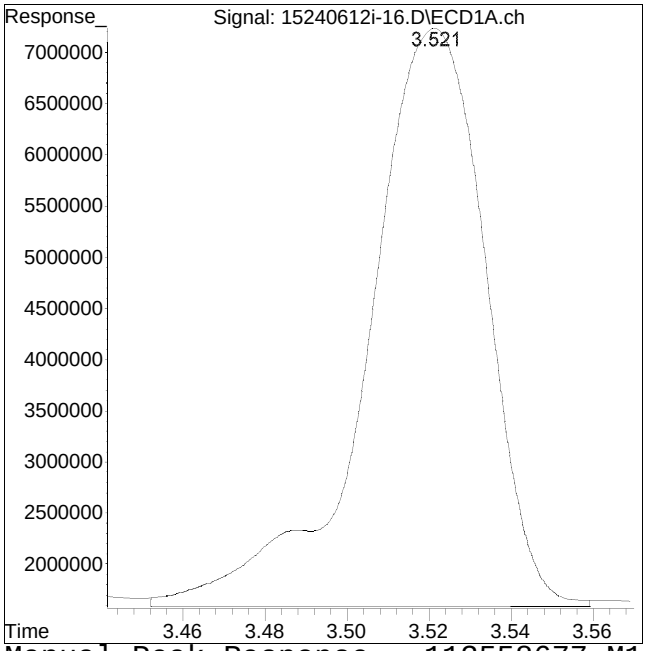


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-16.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 22:11 Instrument : Pest 15
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 6/13/2024 9:34 am

Compound #32: chlordane-5





Original Peak Response = 103999169 Manual Peak Response = 113558677 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:22
Operator : Pest15:kb
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:33:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:33:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.233	1.325	101.8E6	169.5E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:22
Operator : Pest15:kb
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:33:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:33:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.481	2.959	152.9E6	248.2E6	594.562	630.715
30)	l1	chlordane-3	2.837	3.435	102.3E6	146.4E6	619.618	656.243
31)	l1	chlordane-4	3.394	4.125	353.4E6	495.3E6	602.310	631.458
32)	l1	chlordane-5	3.522	4.296	544.4E6	388.8E6	625.155M1	632.641
		Sum chlordane-1			1153.1E6	1278.7E6	NoCal	NoCal D
		Average chlordane-1					610.411	637.764
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

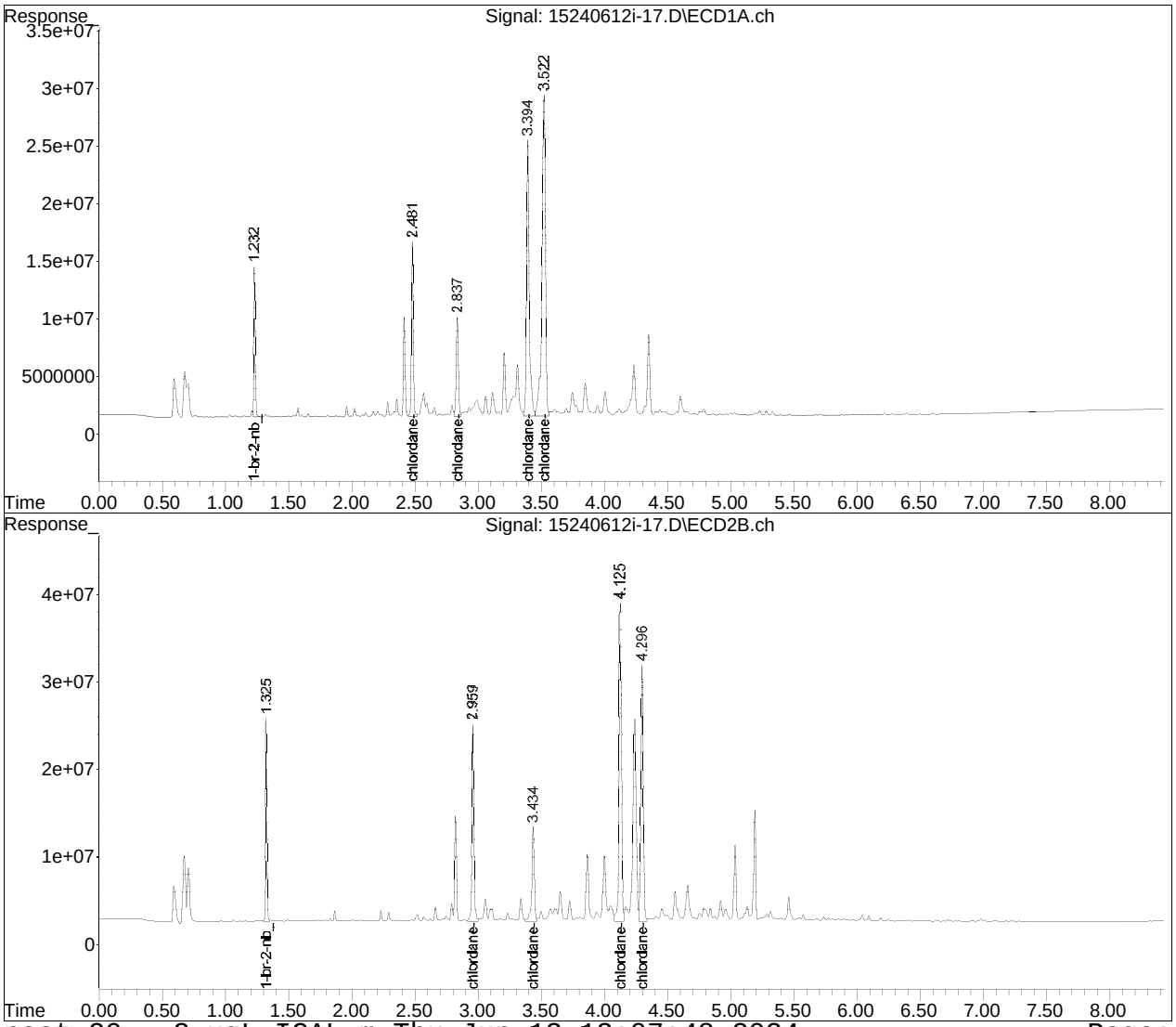
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-17.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:22
Operator : Pest15:kb
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:33:50 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:33:38 2024
Response via : Initial Calibration
Integrator: ChemStation

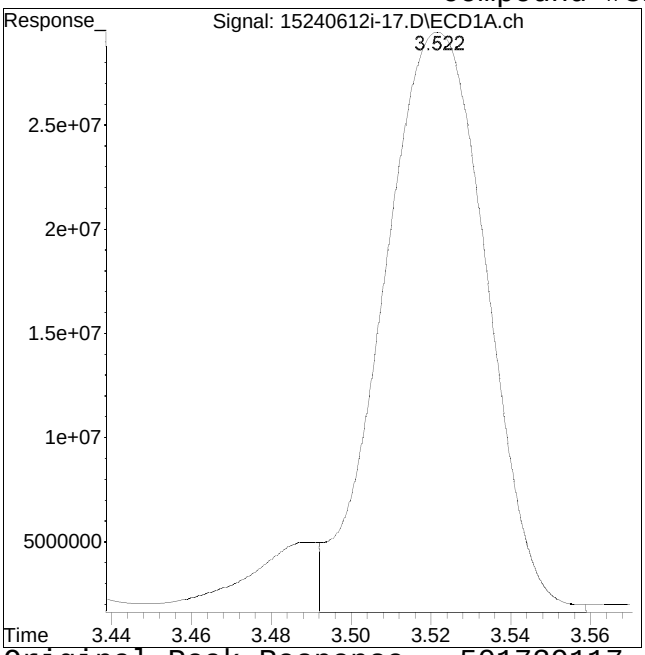
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

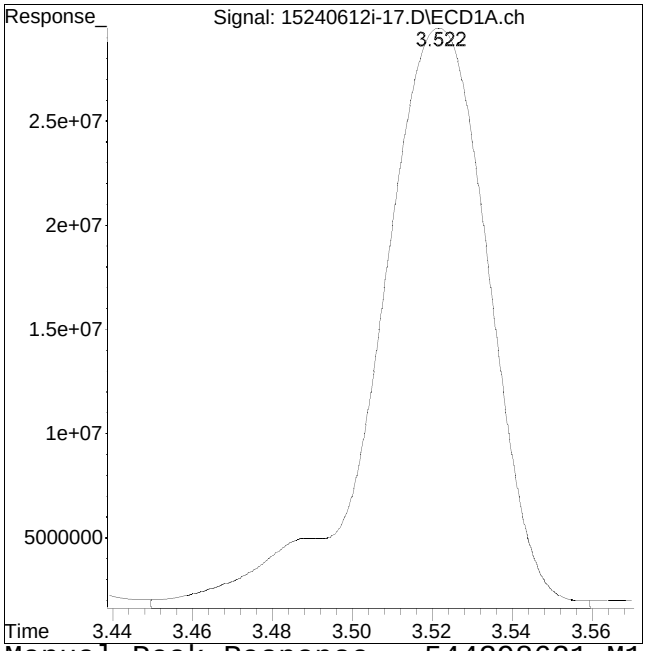


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-17.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 22:22 Instrument : Pest 15
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 6/13/2024 9:33 am

Compound #32: chlordane-5





Original Peak Response = 501739117 Manual Peak Response = 544398631 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:34
Operator : Pest15:kb
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:30:53 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:30:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.231	1.324	98768367	169.6E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:34
Operator : Pest15:kb
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:30:53 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:30:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.481	2.959	274.0E6	446.9E6	954.567	929.221
30)	l1	chlordane-3	2.836	3.435	178.2E6	257.0E6	988.138	936.621
31)	l1	chlordane-4	3.394	4.125	624.0E6	882.5E6	1016.011	1004.772
32)	l1	chlordane-5	3.521	4.296	956.8E6	692.2E6	1011.988M1	994.909
		Sum chlordane-1			2033.0E6	2278.7E6	NoCal	NoCal D
		Average chlordane-1					992.676	966.381
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

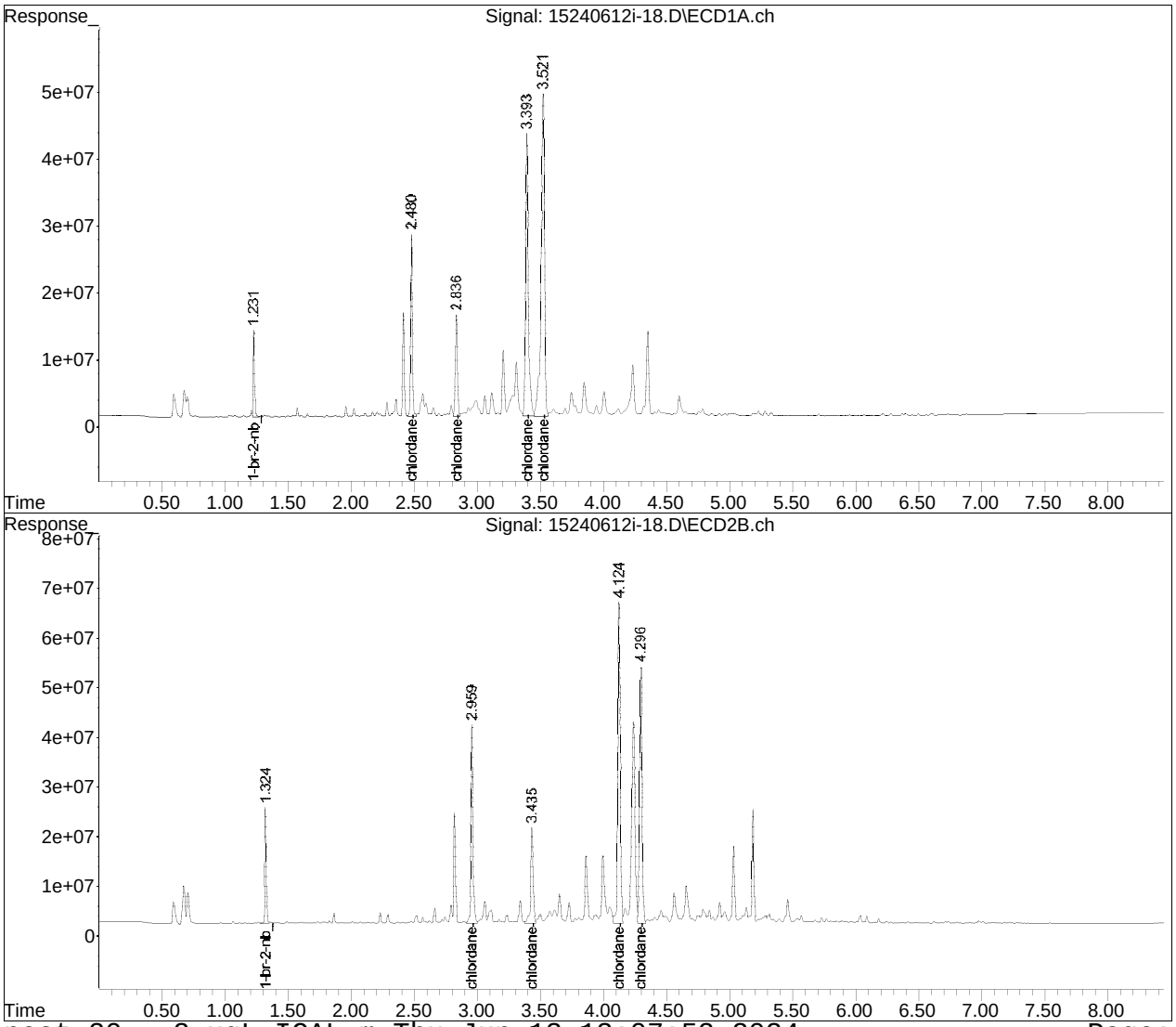
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-18.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:34
Operator : Pest15:kb
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:30:53 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:30:43 2024
Response via : Initial Calibration
Integrator: ChemStation

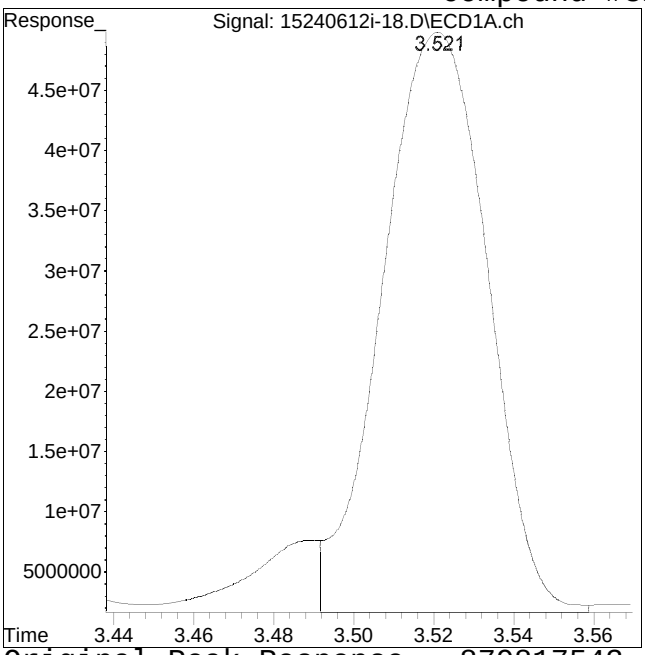
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

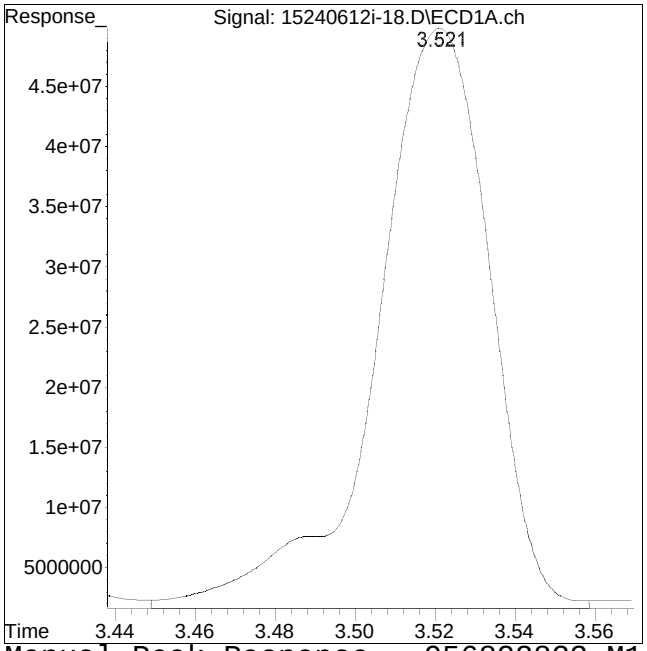


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-18.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 22:34 Instrument : Pest 15
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 6/13/2024 9:30 am

Compound #32: chlordane-5





Original Peak Response = 879817543 Manual Peak Response = 956822823 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:45
Operator : Pest15:kb
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:31:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:31:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.234	1.326	104.9E6	184.5E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:45
Operator : Pest15:kb
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:31:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:31:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.482	2.960	542.3E6	894.9E6	1863.768	1840.125
30) l1	chlordane-3	2.837	3.436	347.4E6	506.4E6	1836.315	1810.244
31) l1	chlordane-4	3.394	4.125	1236.2E6	1779.8E6	1865.831	1853.195
32) l1	chlordane-5	3.522	4.297	1897.1E6	1392.9E6	2030.617M1	1849.073
Sum	chlordane-1			4023.1E6	4574.0E6	NoCal	NoCal D
Average	chlordane-1					1899.133	1838.159
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

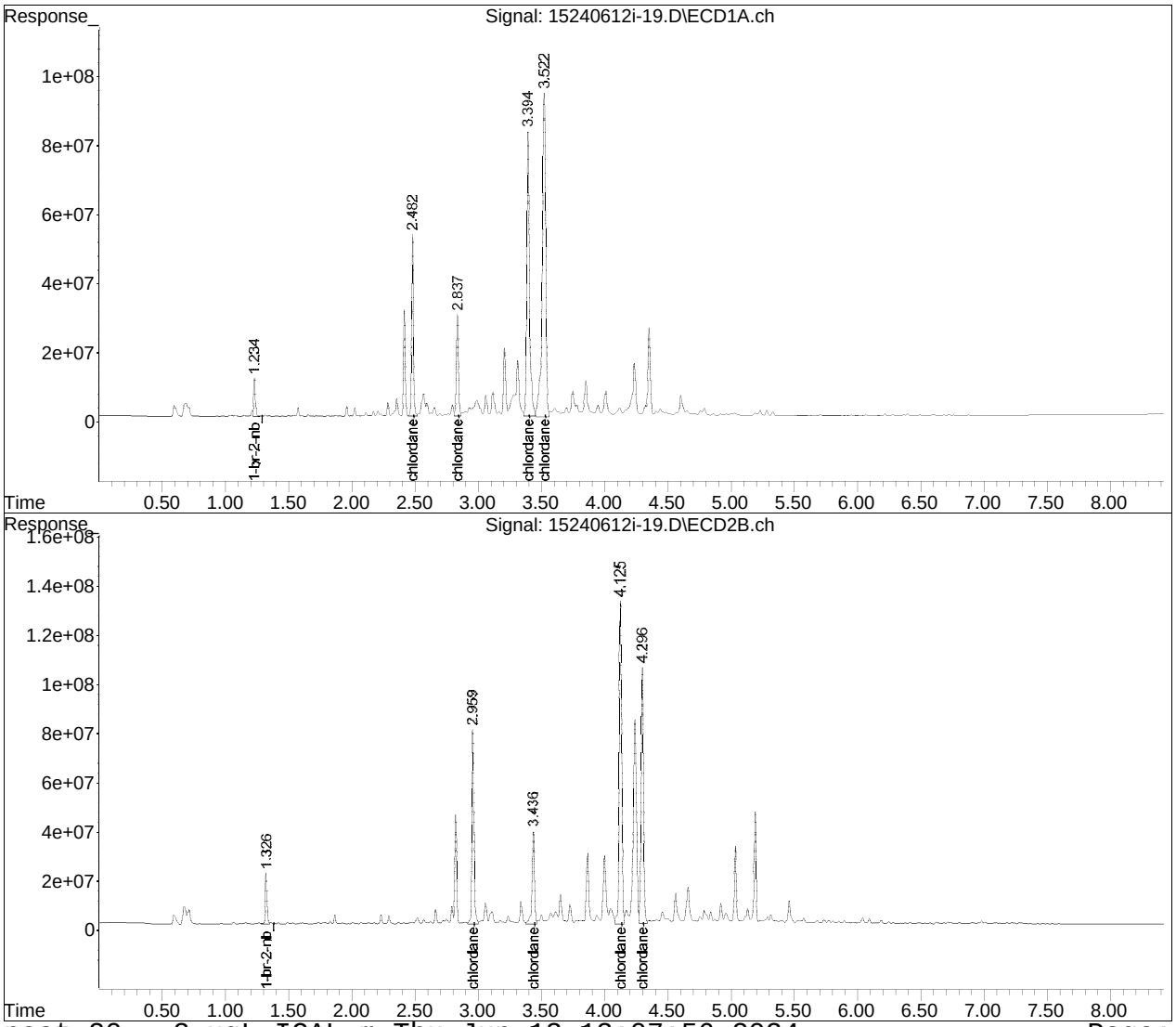
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-19.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:45
Operator : Pest15:kb
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:31:37 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:31:25 2024
Response via : Initial Calibration
Integrator: ChemStation

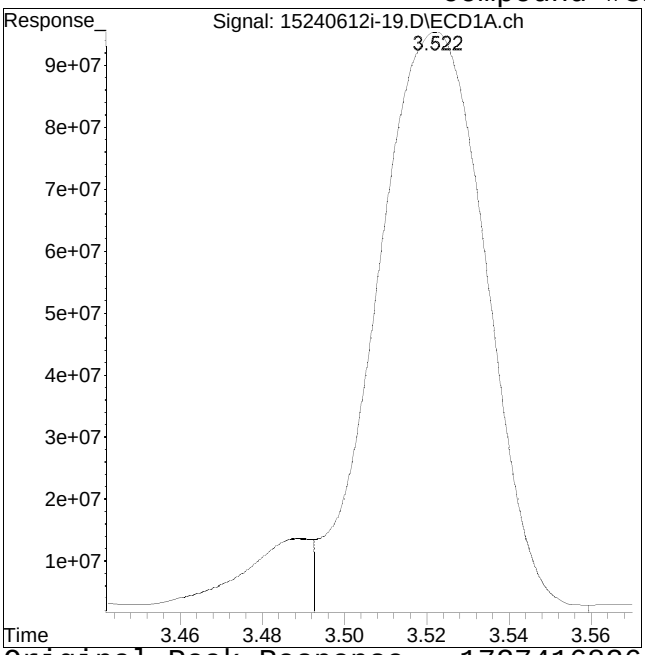
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

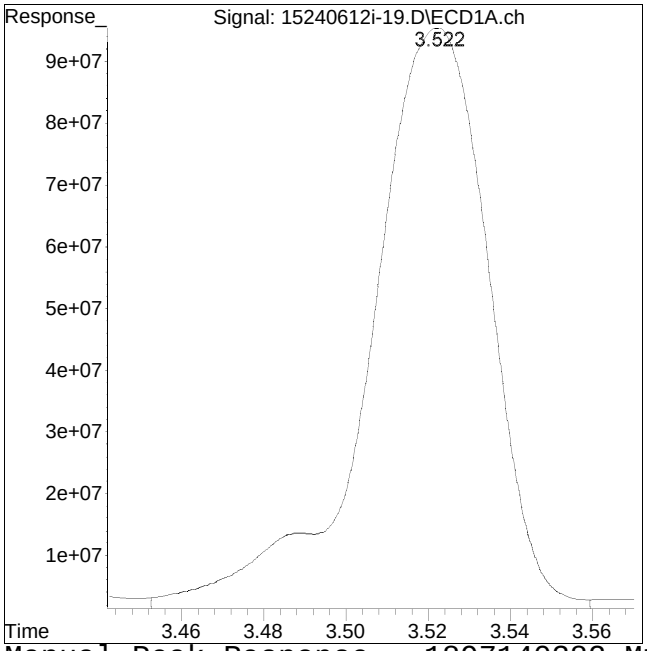


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-19.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 22:45 Instrument : Pest 15
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 6/13/2024 9:31 am

Compound #32: chlordane-5





Original Peak Response = 1727416826 Manual Peak Response = 1897140382 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:56
Operator : Pest15:kb
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:32:28 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:32:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.236	1.327	113.7E6	224.0E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:56
Operator : Pest15:kb
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:32:28 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:32:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.483	2.960	1260.2E6	2135.2E6	4136.086	3767.001
30) l1	chlordane-3	2.839	3.436	798.8E6	1189.4E6	4060.941	3676.784
31) l1	chlordane-4	3.396	4.126	2885.5E6	4319.6E6	4156.902	3845.918
32) l1	chlordane-5	3.523	4.297	4378.4E6	3385.3E6	4492.784	3846.764
Sum	chlordane-1			9322.9E6	11029.5E6	NoCal	NoCal D
Average	chlordane-1					4211.678	3784.117
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

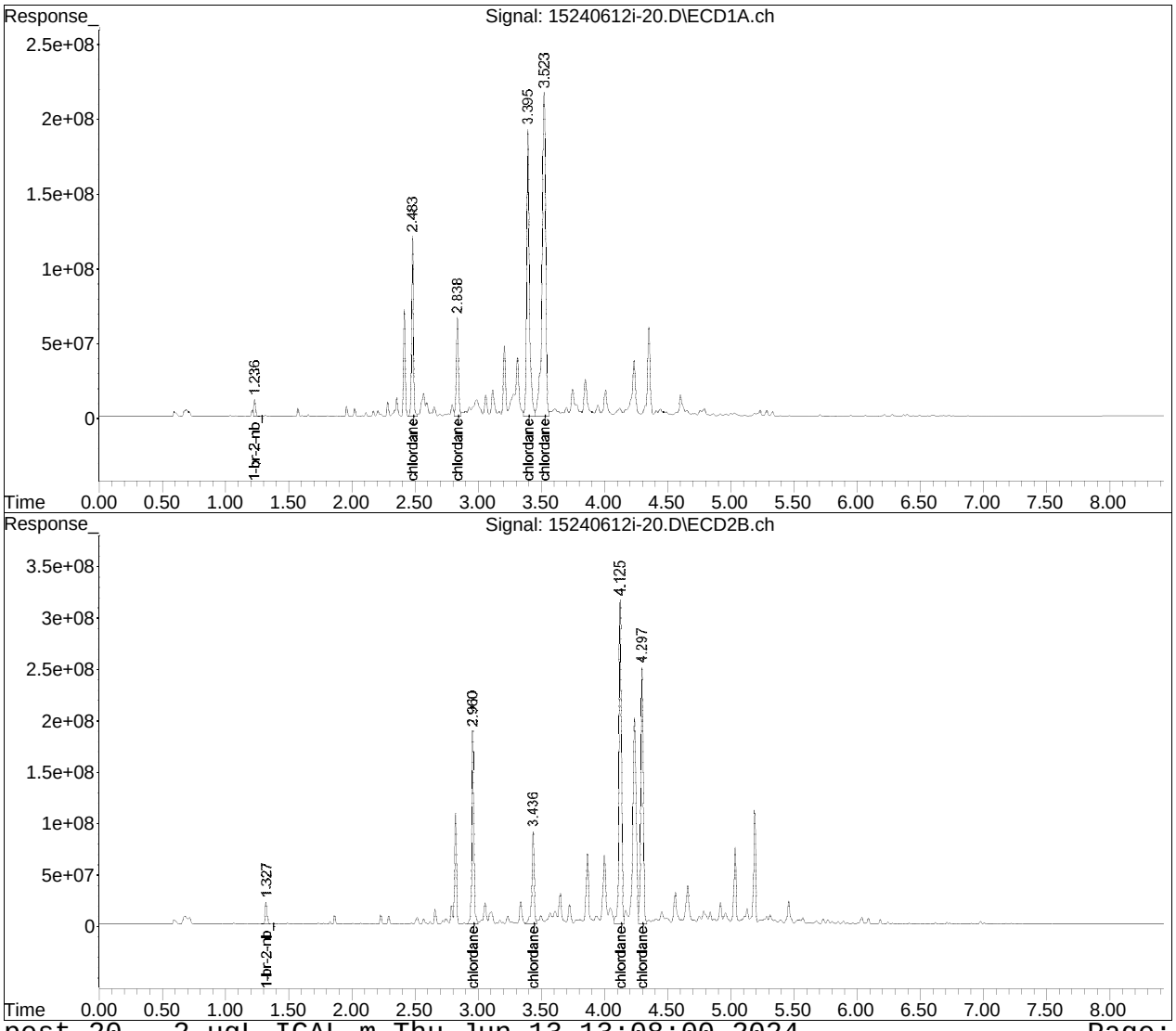
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 22:56
Operator : Pest15:kb
Sample : il10chlor,42e,,pp 11515 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:32:28 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:32:16 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612Q	Method	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-20.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 22:56	Instrument	: Pest 15
Sample	: il10chlor,42e,,pp 11515 L5	Quant Date	: 6/13/2024 9:32 am

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

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	102	0.00
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1	*	1000.000	798.761	20.1#	78	0.00
30	l1	chlordane-3	*	1000.000	1034.281	-3.4	101	0.00
31	l1	chlordane-4	*	1000.000	1035.320	-3.5	102	0.00
32	l1	chlordane-5	*	1000.000	1135.155	-13.5	112	0.00

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	88	0.00
29	l1	chlordane-1		0.074	0.055	25.7#	77	0.00
30	l1	chlordane-3		0.043	0.042	2.3	102	0.00
31	l1	chlordane-4		0.148	0.140	5.4	99	0.00
32	l1	chlordane-5		0.116	0.108	6.9	97	0.00

Evaluate Continuing Calibration Report - Not Founds

2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	0.000	100.0#	0#	-1.60#
3		Hexachlorobenzene		1.269	0.000	100.0#	0#	-1.82#
4		alpha-BHC		1.490	0.000	100.0#	0#	-1.93#
5		gamma-BHC (lindane)		1.433	0.000	100.0#	0#	-2.13#
6		beta-BHC		0.728	0.000	100.0#	0#	-2.19#
7		delta-BHC		1.402	0.000	100.0#	0#	-2.32#
8		Heptachlor		1.373	0.000	100.0#	0#	-2.48#
9		Aldrin		1.347	0.000	100.0#	0#	-2.73#
10		Alachlor		0.241	0.000	100.0#	0#	-2.85#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.94#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
12		Heptachlor Epoxide		1.326	0.000	100.0#	0#	-3.27#
13		gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.40#
14		alpha-Chlordane (cis)		1.407	0.000	100.0#	0#	-3.53#
15		4,4'-DDE		1.381	0.000	100.0#	0#	-3.63#
16		Endosulfan I		1.284	0.000	100.0#	0#	-3.66#
17		Dieldrin		1.322	0.000	100.0#	0#	-3.92#
18		Endrin		1.345	0.000	100.0#	0#	-4.18#
19		4,4'-DDD		1.101	0.000	100.0#	0#	-4.29#
20		Endosulfan II		1.210	0.000	100.0#	0#	-4.42#
21		4,4'-DDT		1.113	0.000	100.0#	0#	-4.59#
22		Endrin Aldehyde		1.009	0.000	100.0#	0#	-4.84#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.09#
24		Mirex	*	50.000	0.000	100.0#	0	-5.14#
25		Endosulfan Sulfate		1.203	0.000	100.0#	0#	-5.24#
26		Endrin Ketone		1.311	0.000	100.0#	0#	-5.47#
27	s	Decachlorobiphenyl		1.070	0.000	100.0#	0#	-6.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.23#
34	l2	toxaphene-1		0.065	0.000	100.0#	0#	-4.41#
35	l2	toxaphene-2		0.046	0.000	100.0#	0#	-4.54#
36	l2	toxaphene-4		0.040	0.000	100.0#	0#	-4.96#
37	l2	toxaphene-5		0.048	0.000	100.0#	0#	-5.15#

Signal #2

2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	0.000	100.0#	0#	-1.83#
3		Hexachlorobenzene		1.149	0.000	100.0#	0#	-2.16#
4		alpha-BHC		1.429	0.000	100.0#	0#	-2.27#
5		gamma-BHC (lindane)		1.360	0.000	100.0#	0#	-2.56#
6		beta-BHC		0.663	0.000	100.0#	0#	-2.62#
7		delta-BHC		1.351	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.285	0.000	100.0#	0#	-2.96#
9		Aldrin		1.225	0.000	100.0#	0#	-3.28#
10		Alachlor		0.217	0.000	100.0#	0#	-3.17#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.52#
12		Heptachlor Epoxide		1.197	0.000	100.0#	0#	-3.90#
13		gamma-Chlordane (trans)		1.108	0.000	100.0#	0#	-4.13#
14		alpha-Chlordane (cis)		1.225	0.000	100.0#	0#	-4.30#
15		4,4'-DDE		1.211	0.000	100.0#	0#	-4.49#
16		Endosulfan I		1.130	0.000	100.0#	0#	-4.36#
17		Dieldrin		1.156	0.000	100.0#	0#	-4.65#
18		Endrin		1.180	0.000	100.0#	0#	-4.95#
19		4,4'-DDD		0.996	0.000	100.0#	0#	-5.07#
20		Endosulfan II		1.071	0.000	100.0#	0#	-5.15#
21		4,4'-DDT		1.095	0.000	100.0#	0#	-5.35#
22		Endrin Aldehyde		0.915	0.000	100.0#	0#	-5.44#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.91#
24		Mirex	*	50.000	0.000	100.0#	0	-6.05#
25		Endosulfan Sulfate		1.025	0.000	100.0#	0#	-5.67#
26		Endrin Ketone		1.128	0.000	100.0#	0#	-6.09#
27	s	Decachlorobiphenyl		0.850	0.000	100.0#	0#	-6.95#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.33#
34	l2	toxaphene-1		0.035	0.000	100.0#	0#	-5.13#
35	l2	toxaphene-2		0.066	0.000	100.0#	0#	-5.22#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.45#
37	l2	toxaphene-5		0.038	0.000	100.0#	0#	-5.86#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.231	1.324	99259297	156.1E6	25.000	25.000
28) i	1-br-2-nb_Ch	1.231	1.324	99259297	156.1E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.481	2.960	215.0E6	342.1E6	798.761	740.238
30) l1	chlordane-3	2.837	3.436	180.5E6	261.2E6	1034.281	963.282
31) l1	chlordane-4	3.394	4.125	635.0E6	873.2E6	1035.320	946.714
32) l1	chlordane-5	3.519	4.297	1068.4E6	673.5E6	1135.155	931.345
Sum	chlordane-1			2098.9E6	2150.0E6	N.D.	N.D. D
Average	chlordane-1					1000.879	895.395
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

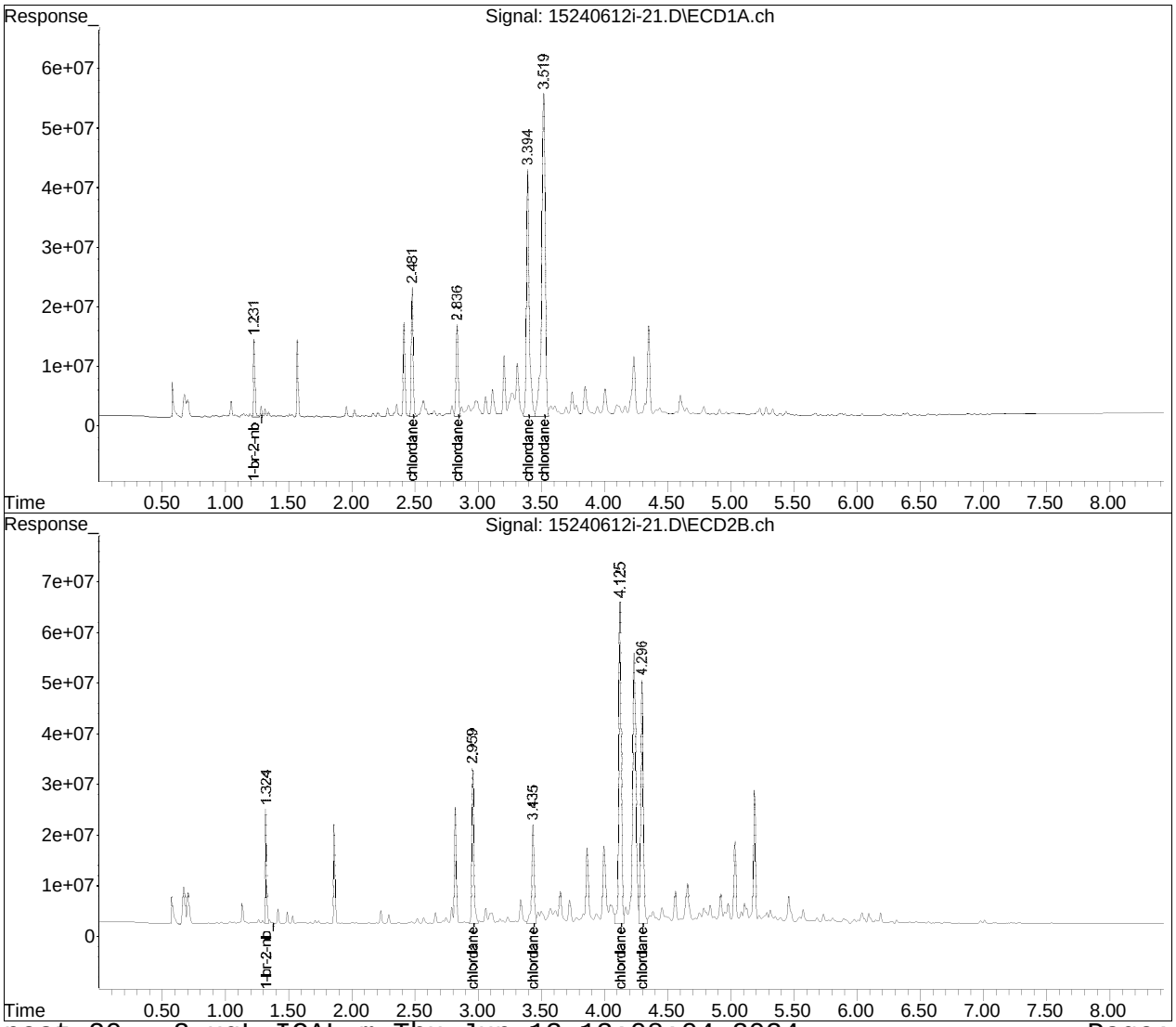
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-21.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:07
Operator : Pest15:kb
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:12:54 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:12:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612Q	Method	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-21.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 23:07	Instrument	: Pest 15
Sample	: cicvchlor,42e,,pp 11540 L1	Quant Date	: 6/13/2024 12:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:18
Operator : Pest15:kb
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:53:30 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:53:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.232	1.324	91080322	148.3E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:18
Operator : Pest15:kb
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:53:30 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:53:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
		Average chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.412	5.134	4174026	4762730	16.884M1	23.519M4
35)	l2	toxaphene-2	4.538	5.221	3781146	8694124	23.564	22.638M4
36)	l2	toxaphene-4	4.958	5.449	3466163	6120479	24.595	24.938M4
37)	l2	toxaphene-5	5.145	5.861	4077872	5074476	24.495	23.035M4
		Sum toxaphene-1			15499208	24651809	89.538	94.130
		Average toxaphene-1					22.385	23.533

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			15499208	24651809	89.538	94.130
		Average toxaphene-1					22.385	23.533

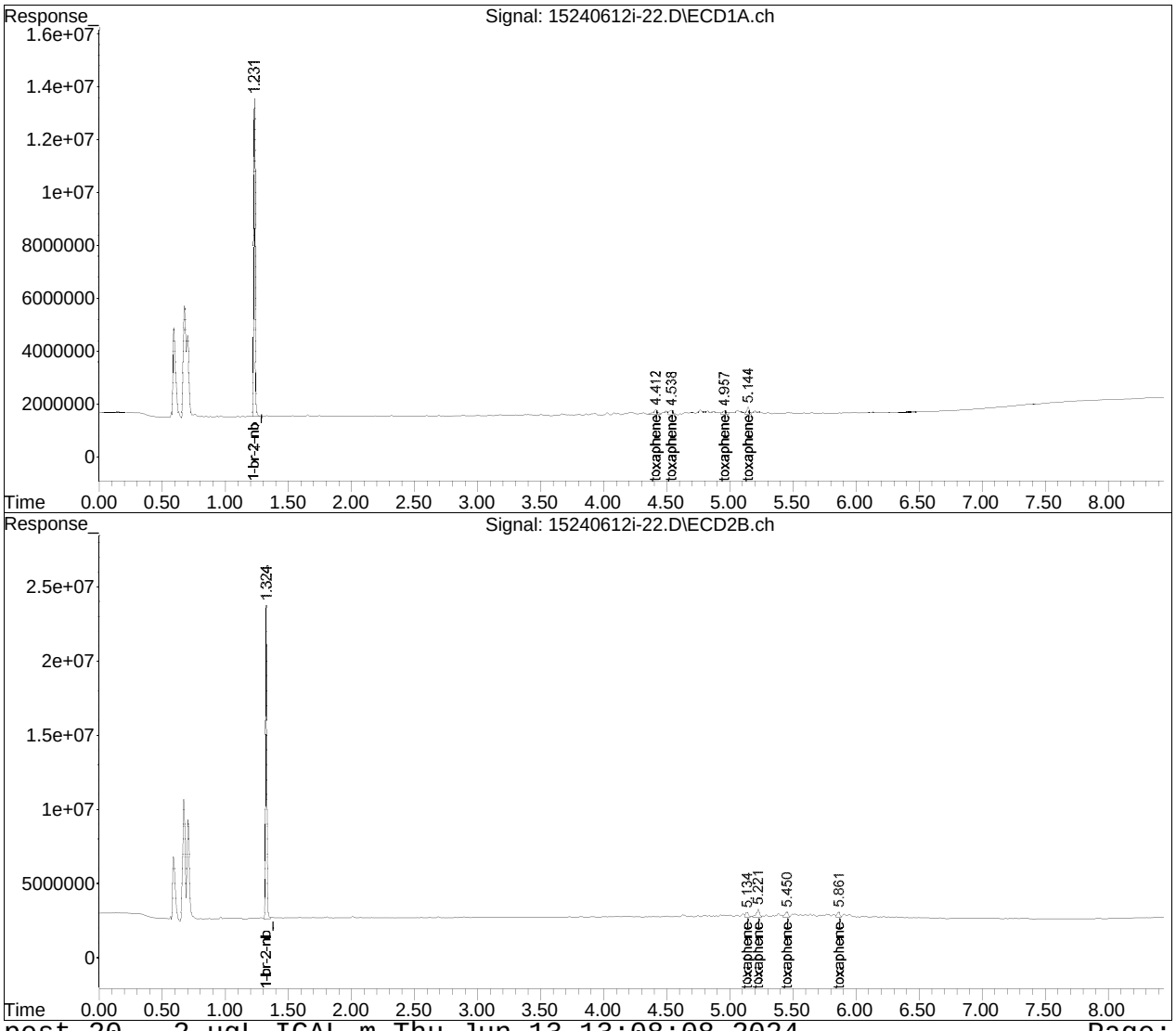
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-22.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:18
Operator : Pest15:kb
Sample : il3tox,42e,,pp 11519 L0.02
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:53:30 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:53:19 2024
Response via : Initial Calibration
Integrator: ChemStation

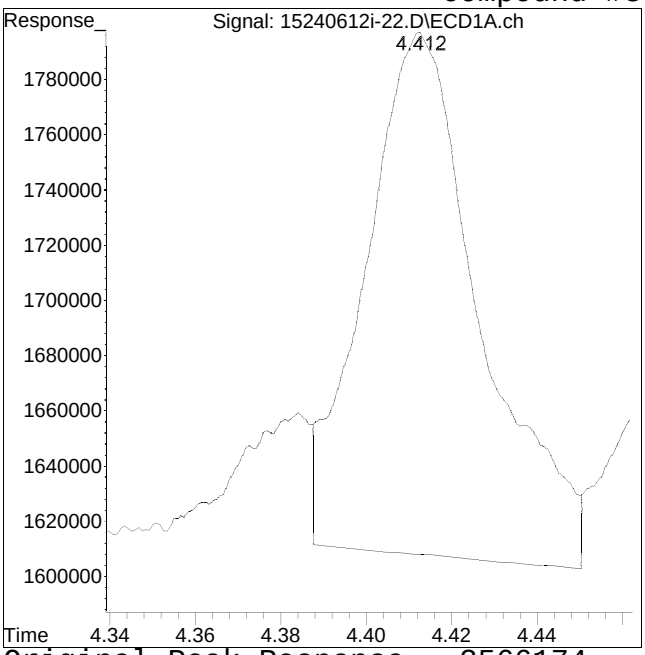
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

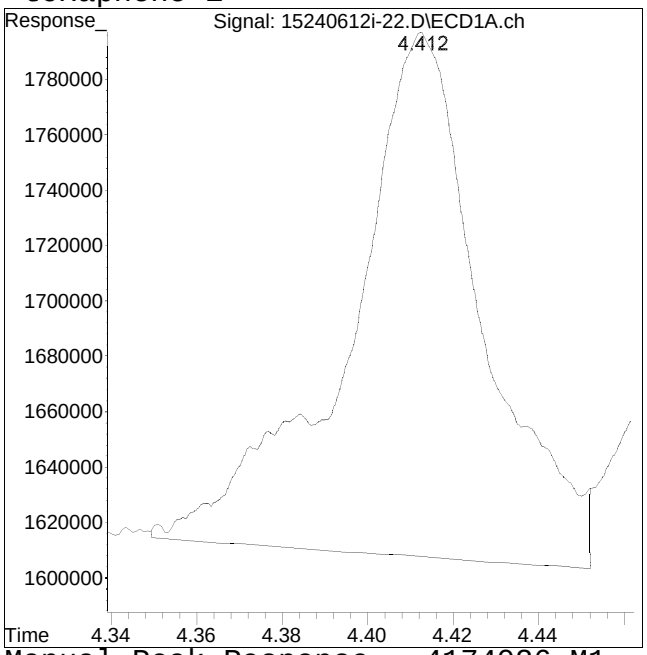


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-22.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 23:18 Instrument : Pest 15
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 6/13/2024 9:53 am

Compound #34: toxaphene-1



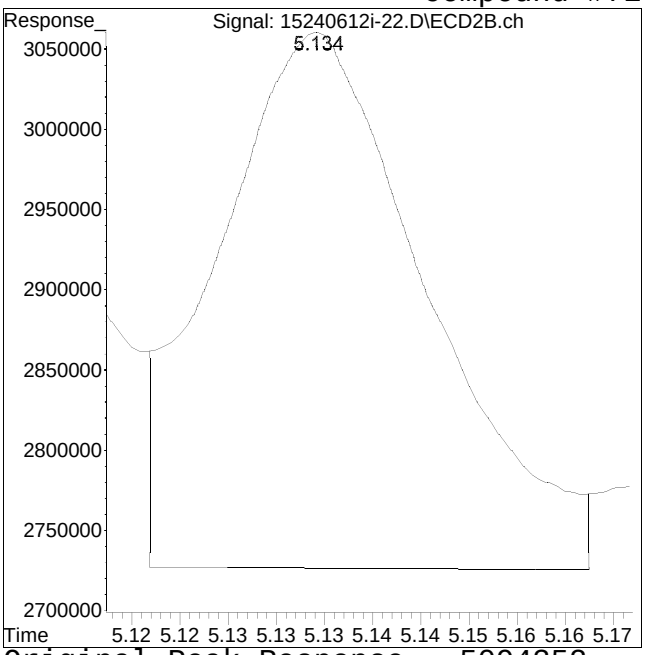


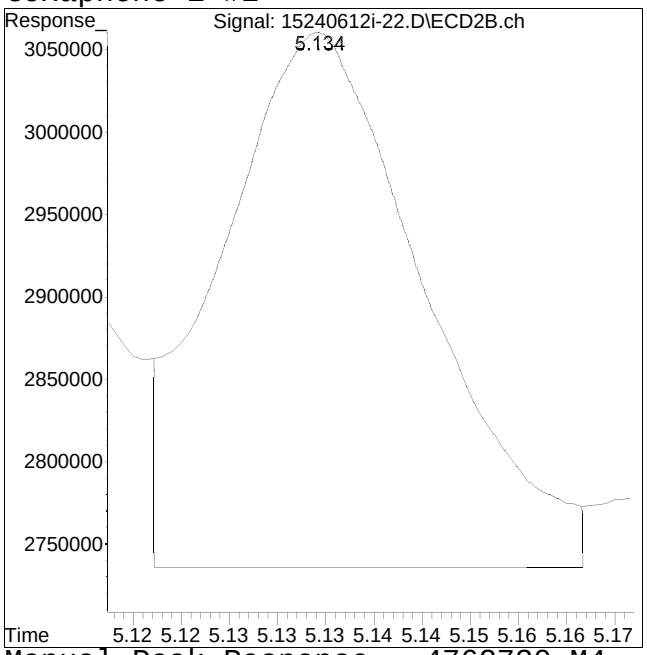
Original Peak Response = 3566174 Manual Peak Response = 4174026 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-22.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 23:18 Instrument : Pest 15
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 6/13/2024 9:53 am

Compound #72: toxaphene-1 #2



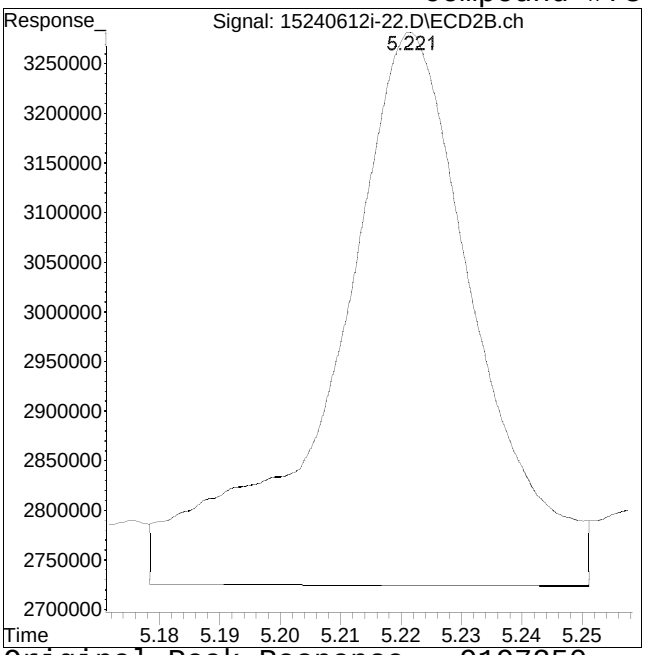


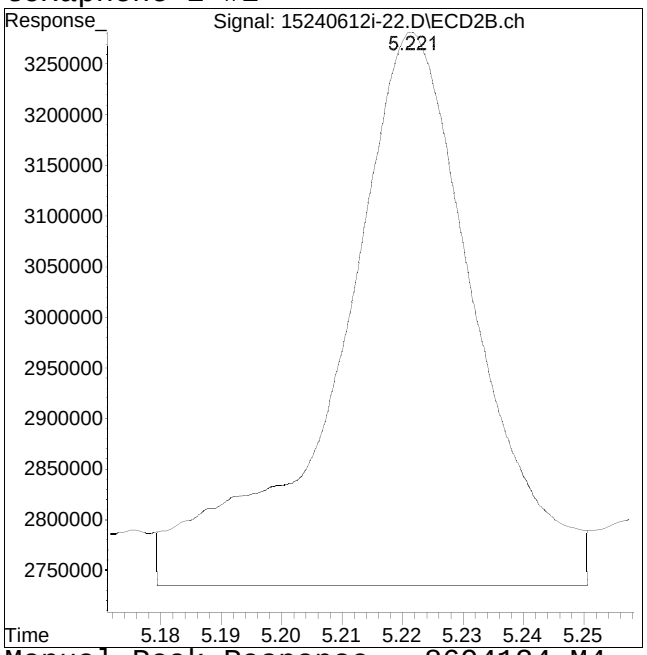
Original Peak Response = 5094352 Manual Peak Response = 4762730 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-22.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 23:18 Instrument : Pest 15
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 6/13/2024 9:53 am

Compound #73: toxaphene-2 #2



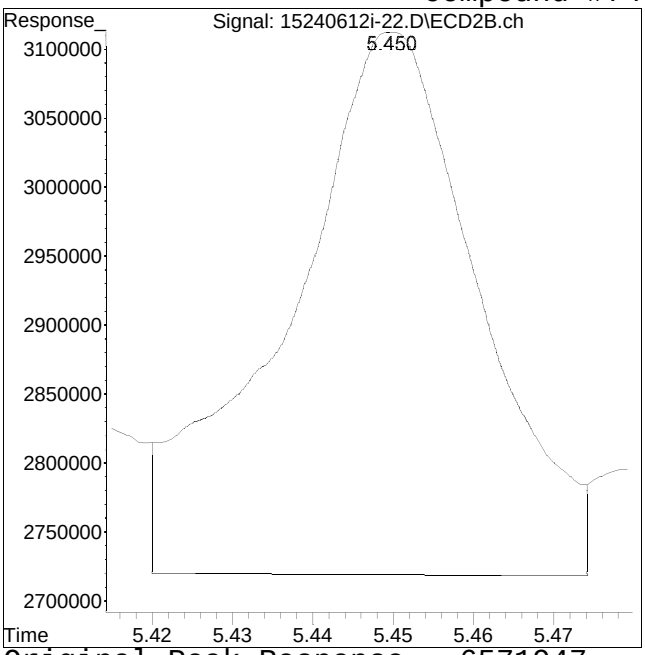


Original Peak Response = 9197250 Manual Peak Response = 8694124 M4
M4 = Poor automated baseline construction.

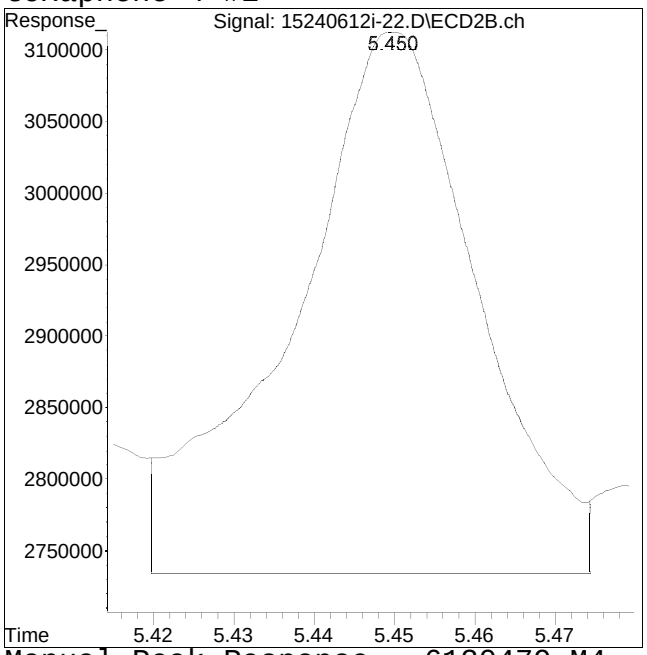
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-22.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 23:18 Instrument : Pest 15
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 6/13/2024 9:53 am

Compound #74: toxaphene-4 #2



Original Peak Response = 6571947



Manual Peak Response = 6120479 M4

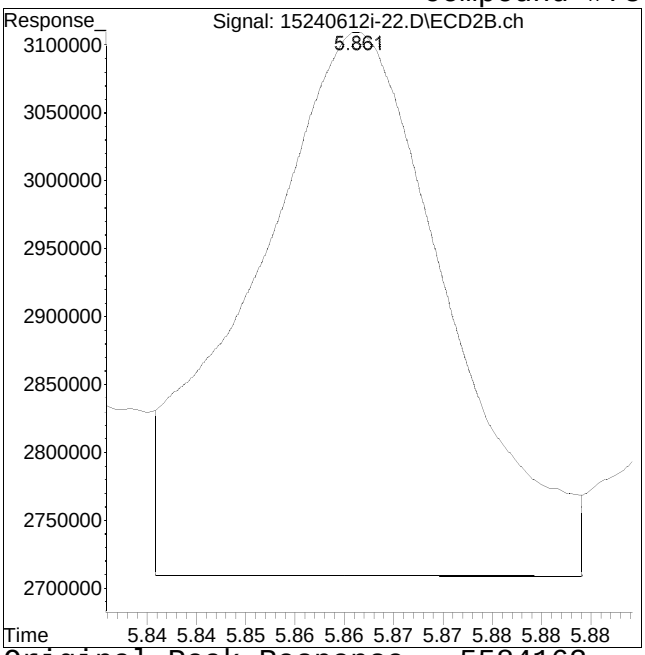
M4 = Poor automated baseline construction.

Manual Integration Report

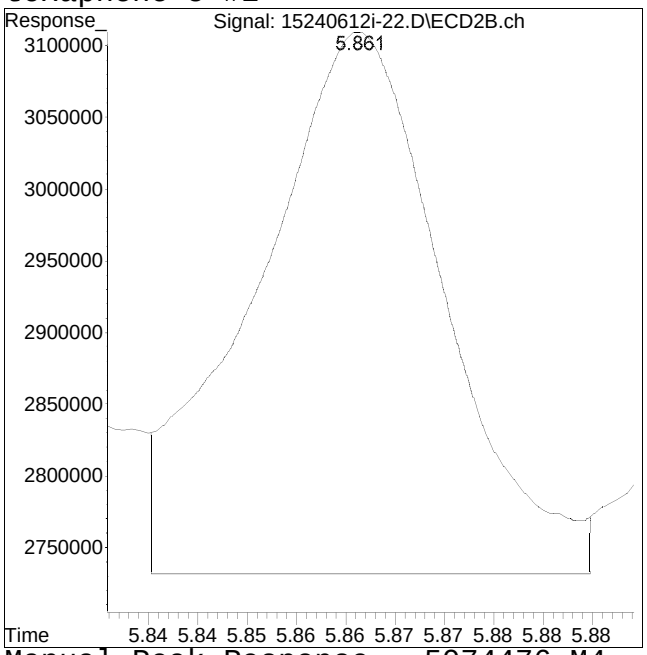
Data Path : I:\PEST\Pest15\2024\240612Q
Data File : 15240612i-22.D
Date Inj'd : 6/12/2024 23:18
Sample : il3tox,42e,,pp 11519 L0.02

Method : P15_pest_2024_06_12_ugL_
Operator : Pest15:kb
Instrument : Pest 15
Quant Date : 6/13/2024 9:53 am

Compound #75: toxaphene-5 #2



Original Peak Response = 5584163



Manual Peak Response = 5074476 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:30
Operator : Pest15:kb
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:52:35 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:52:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.231	1.324	90910441	146.4E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:30
Operator : Pest15:kb
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:52:35 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:52:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.412	5.134	27253608	22219226	116.089M1	115.425
35)	l2	toxaphene-2	4.537	5.222	17977059	41855915	117.015	114.361
36)	l2	toxaphene-4	4.960	5.450	15600879	27225826	115.094	117.199
37)	l2	toxaphene-5	5.146	5.862	19244865	24294362	122.259	116.247
	Sum	toxaphene-1			80076411	115.6E6	470.457	463.231
Average		toxaphene-1					117.614	115.808

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			80076411	115.6E6	470.457	463.231
Average		toxaphene-1					117.614	115.808

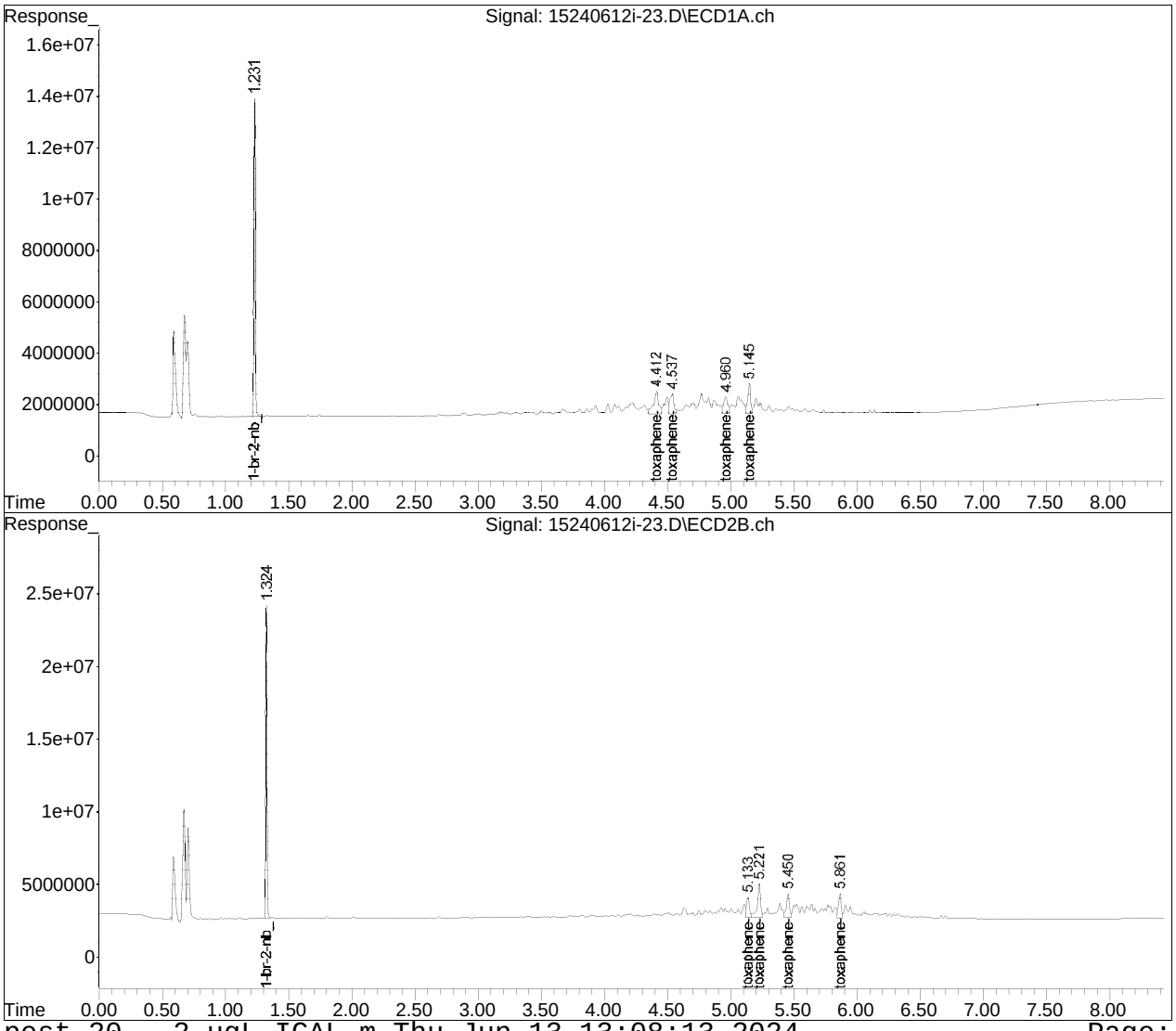
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-23.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:30
Operator : Pest15:kb
Sample : il4tox,42e,,pp 11518 L0.1
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:52:35 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:52:24 2024
Response via : Initial Calibration
Integrator: ChemStation

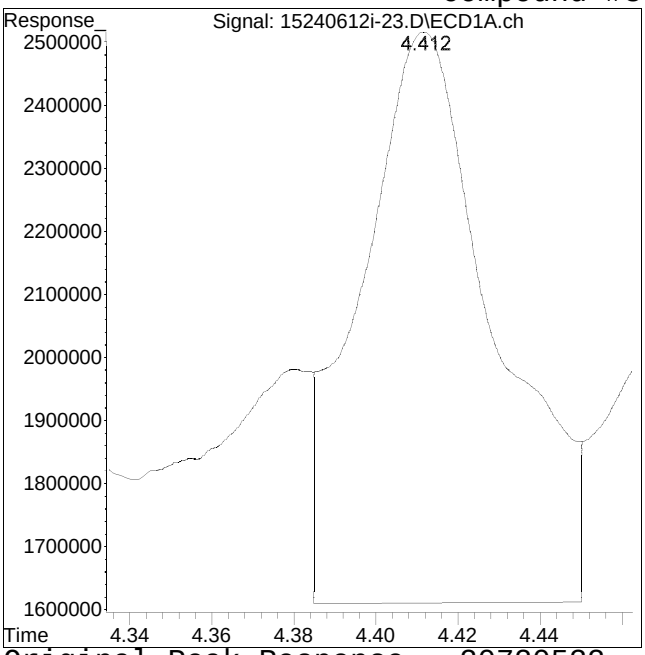
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

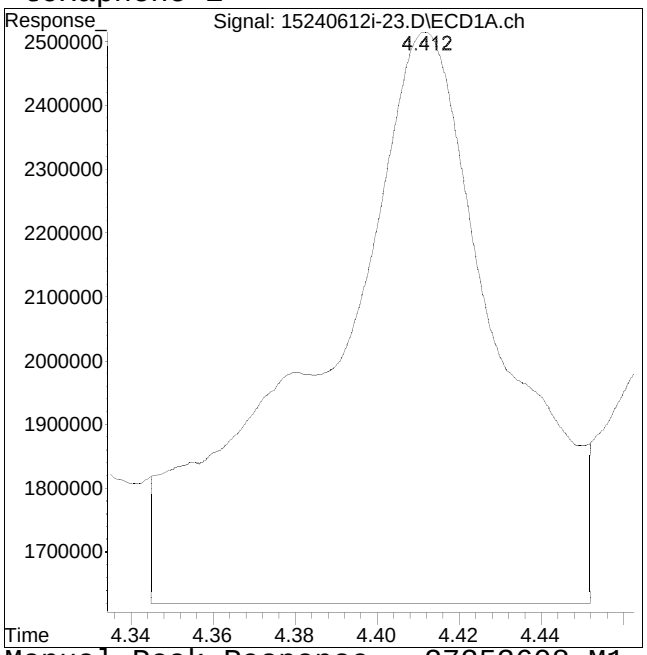


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-23.D Operator : Pest15:kb
Date Inj'd : 6/12/2024 23:30 Instrument : Pest 15
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 6/13/2024 9:52 am

Compound #34: toxaphene-1





Original Peak Response = 20720532 Manual Peak Response = 27253608 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:41
Operator : Pest15:kb
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:51:08 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.235	1.327	94667965	151.0E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:41
Operator : Pest15:kb
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:51:08 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.414	5.134	262.6E6	208.0E6	1305.536	1072.403
35) l2	toxaphene-2	4.539	5.222	171.4E6	398.0E6	1111.361	1083.096
36) l2	toxaphene-4	4.961	5.451	151.4E6	250.3E6	1113.316	1067.681
37) l2	toxaphene-5	5.147	5.861	177.2E6	224.7E6	1126.231	1064.437
Sum	toxaphene-1			762.6E6	1080.9E6	4656.444	4287.617
Average	toxaphene-1					1164.111	1071.904

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			762.6E6	1080.9E6	4656.444	4287.617
Average	toxaphene-1					1164.111	1071.904

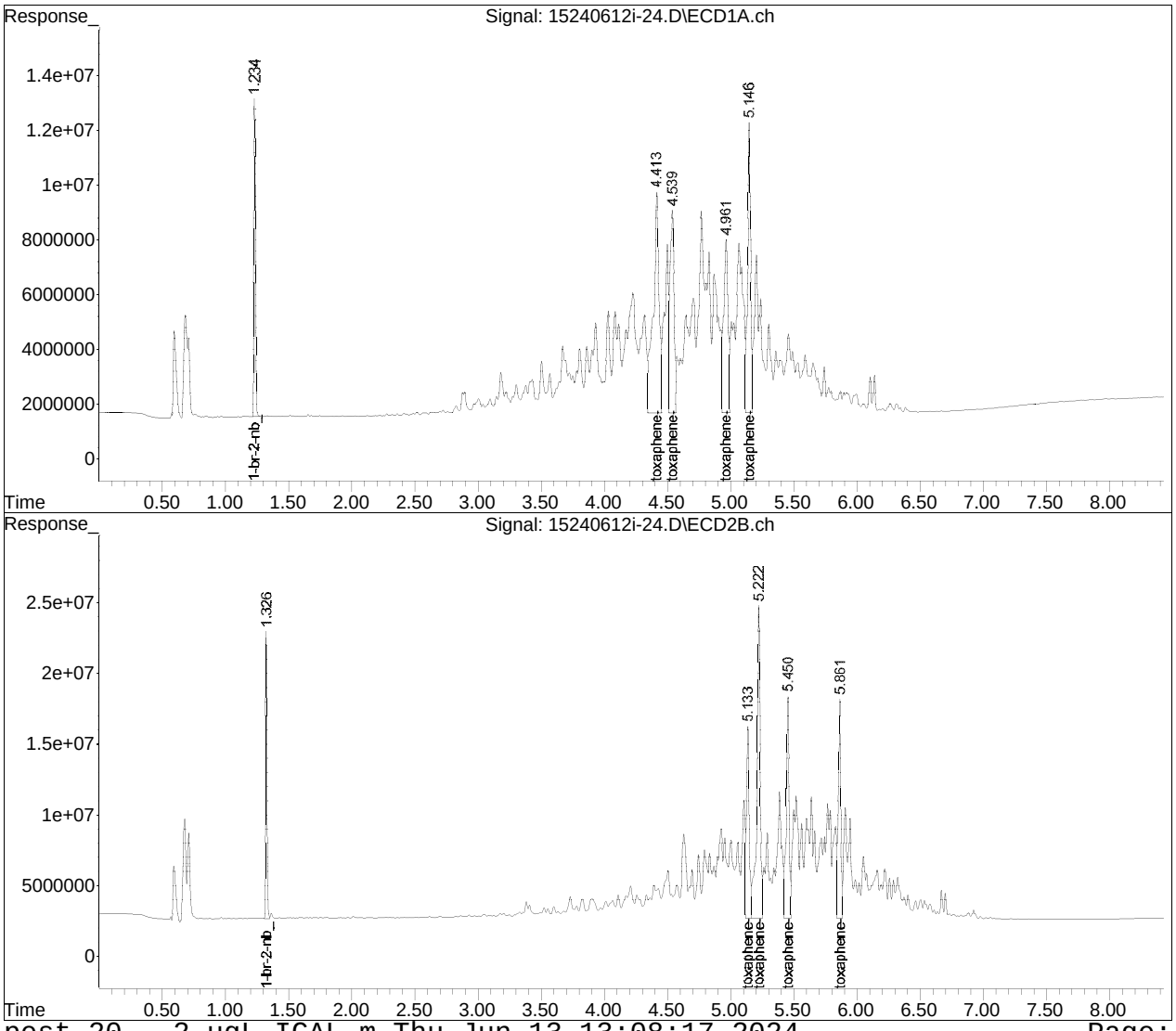
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-24.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:41
Operator : Pest15:kb
Sample : il7tox,42e,,pp 11517 L1.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:51:08 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612	QMethod	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-24.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 23:41	Instrument	: Pest 15
Sample	: il7tox,42e,,pp 11517 L1.0	Quant Date	: 6/13/2024 9:51 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:52
Operator : Pest15:kb
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:49:38 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.233	1.326	96246478	153.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:52
Operator : Pest15:kb
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:49:38 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.414	5.134	485.3E6	389.1E6	3388.211	2813.486
35) l2	toxaphene-2	4.539	5.222	318.5E6	739.6E6	2567.974	2726.765
36) l2	toxaphene-4	4.961	5.451	278.0E6	469.0E6	3369.037	2493.362
37) l2	toxaphene-5	5.147	5.862	324.4E6	422.1E6	3139.840	2931.604
Sum	toxaphene-1			1406.1E6	2019.9E6	12465.062	10965.217
Average	toxaphene-1					3116.265	2741.304

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1406.1E6	2019.9E6	12465.062	10965.217
Average	toxaphene-1					3116.265	2741.304

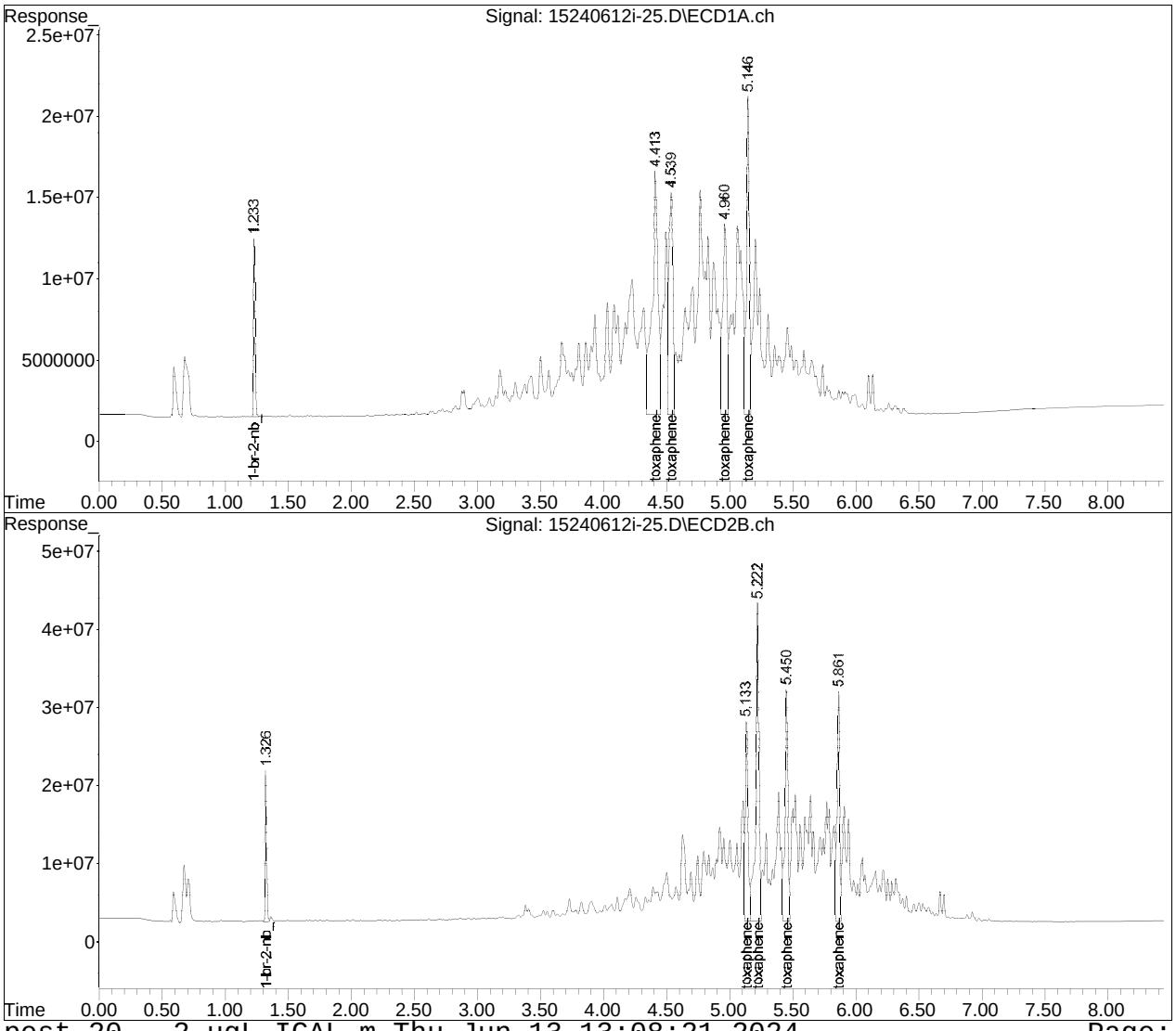
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-25.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jun 2024 23:52
Operator : Pest15:kb
Sample : il8tox,42e,,pp 11516 L2.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:49:38 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest15\2024\240612Q	Method	: P15_pest_2024_06_12_ugL_
Data File	: 15240612i-25.D	Operator	: Pest15:kb
Date Inj'd	: 6/12/2024 23:52	Instrument	: Pest 15
Sample	: il8tox,42e,,pp 11516 L2.0	Quant Date	: 6/13/2024 9:49 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:03
Operator : Pest15:kb
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:50:17 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.234	1.327	98926460	150.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:03
Operator : Pest15:kb
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:50:17 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.412	5.134	1212.8E6	978.5E6	4863.140M1	5110.331
35)	l2	toxaphene-2	4.538	5.222	793.6E6	1848.0E6	4848.895	5077.611
36)	l2	toxaphene-4	4.960	5.451	706.8E6	1185.7E6	4946.603	5137.106
37)	l2	toxaphene-5	5.146	5.862	810.3E6	1068.4E6	4860.917	5143.305
	Sum	toxaphene-1			3523.6E6	5080.6E6	19519.555	20468.353
Average		toxaphene-1					4879.889	5117.088

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			3523.6E6	5080.6E6	19519.555	20468.353
Average		toxaphene-1					4879.889	5117.088

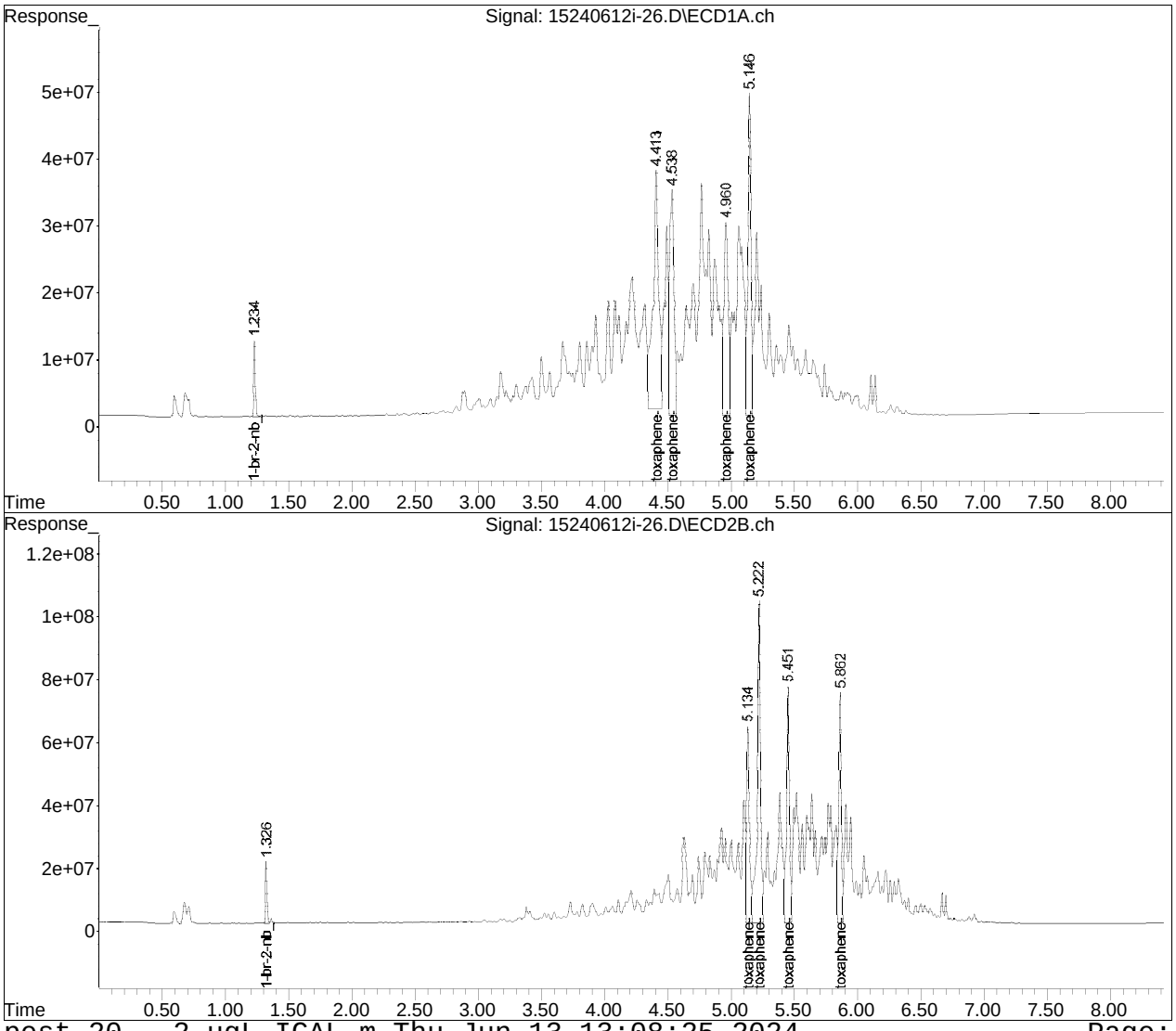
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:03
Operator : Pest15:kb
Sample : il9tox,42e,,pp 11510 L5.0
Misc : WG1933928,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 09:50:17 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 09:50:08 2024
Response via : Initial Calibration
Integrator: ChemStation

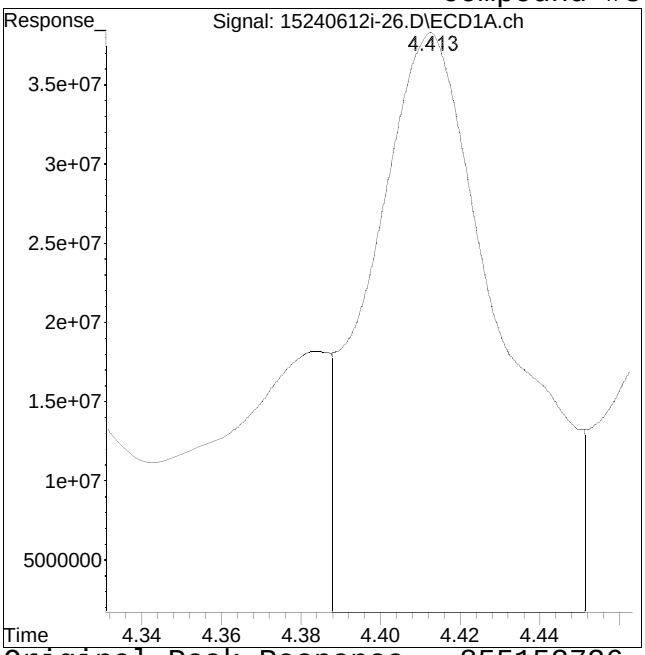
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

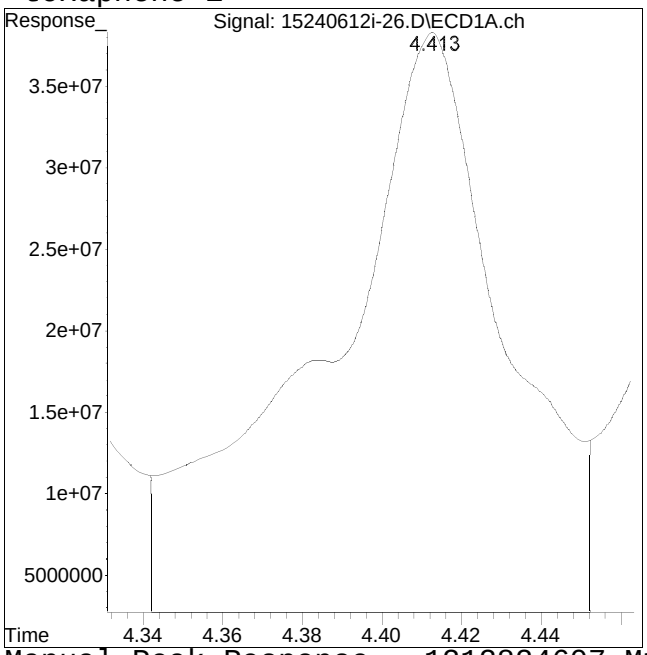


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-26.D Operator : Pest15:kb
Date Inj'd : 6/13/2024 0:03 Instrument : Pest 15
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 6/13/2024 9:50 am

Compound #34: toxaphene-1





Original Peak Response = 855152726 Manual Peak Response = 1212824607 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1933928,ical
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-1		0.065	0.075	-15.4	118	0.00
35	l2	toxaphene-2		0.046	0.047	-2.2	113	0.00
36	l2	toxaphene-4		0.040	0.045	-12.5	124	0.00
37	l2	toxaphene-5		0.048	0.049	-2.1	116	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	100	0.00
34	l2	toxaphene-1		0.035	0.039	-11.4	120	0.00
35	l2	toxaphene-2		0.066	0.073	-10.6	117	0.00
36	l2	toxaphene-4		0.043	0.044	-2.3	111	0.00
37	l2	toxaphene-5		0.038	0.042	-10.5	120	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.23#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	0.000	100.0#	0#	-1.60#
3		Hexachlorobenzene		1.269	0.000	100.0#	0#	-1.82#
4		alpha-BHC		1.490	0.000	100.0#	0#	-1.93#
5		gamma-BHC (lindane)		1.433	0.000	100.0#	0#	-2.13#
6		beta-BHC		0.728	0.000	100.0#	0#	-2.19#
7		delta-BHC		1.402	0.000	100.0#	0#	-2.32#
8		Heptachlor		1.373	0.000	100.0#	0#	-2.48#
9		Aldrin		1.347	0.000	100.0#	0#	-2.73#
10		Alachlor		0.241	0.000	100.0#	0#	-2.85#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.94#
12		Heptachlor Epoxide		1.326	0.000	100.0#	0#	-3.27#
13		gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.40#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1933928,ical
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.407	0.000	100.0#	0#	-3.53#
15		4,4'-DDE		1.381	0.000	100.0#	0#	-3.63#
16		Endosulfan I		1.284	0.000	100.0#	0#	-3.66#
17		Dieldrin		1.322	0.000	100.0#	0#	-3.92#
18		Endrin		1.345	0.000	100.0#	0#	-4.18#
19		4,4'-DDD		1.101	0.000	100.0#	0#	-4.29#
20		Endosulfan II		1.210	0.000	100.0#	0#	-4.42#
21		4,4'-DDT		1.113	0.000	100.0#	0#	-4.59#
22		Endrin Aldehyde		1.009	0.000	100.0#	0#	-4.84#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.09#
24		Mirex	*	50.000	0.000	100.0#	0	-5.14#
25		Endosulfan Sulfate		1.203	0.000	100.0#	0#	-5.24#
26		Endrin Ketone		1.311	0.000	100.0#	0#	-5.47#
27	s	Decachlorobiphenyl		1.070	0.000	100.0#	0#	-6.28#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.23#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.48#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.84#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.39#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.52#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.33#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	0.000	100.0#	0#	-1.83#
3		Hexachlorobenzene		1.149	0.000	100.0#	0#	-2.16#
4		alpha-BHC		1.429	0.000	100.0#	0#	-2.27#
5		gamma-BHC (lindane)		1.360	0.000	100.0#	0#	-2.56#
6		beta-BHC		0.663	0.000	100.0#	0#	-2.62#
7		delta-BHC		1.351	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : WG1933928,ical
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.285	0.000	100.0#	0#	-2.96#
9		Aldrin		1.225	0.000	100.0#	0#	-3.28#
10		Alachlor		0.217	0.000	100.0#	0#	-3.17#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.52#
12		Heptachlor Epoxide		1.197	0.000	100.0#	0#	-3.90#
13		gamma-Chlordane (trans)		1.108	0.000	100.0#	0#	-4.13#
14		alpha-Chlordane (cis)		1.225	0.000	100.0#	0#	-4.30#
15		4,4'-DDE		1.211	0.000	100.0#	0#	-4.49#
16		Endosulfan I		1.130	0.000	100.0#	0#	-4.36#
17		Dieldrin		1.156	0.000	100.0#	0#	-4.65#
18		Endrin		1.180	0.000	100.0#	0#	-4.95#
19		4,4'-DDD		0.996	0.000	100.0#	0#	-5.07#
20		Endosulfan II		1.071	0.000	100.0#	0#	-5.15#
21		4,4'-DDT		1.095	0.000	100.0#	0#	-5.35#
22		Endrin Aldehyde		0.915	0.000	100.0#	0#	-5.44#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.91#
24		Mirex	*	50.000	0.000	100.0#	0	-6.05#
25		Endosulfan Sulfate		1.025	0.000	100.0#	0#	-5.67#
26		Endrin Ketone		1.128	0.000	100.0#	0#	-6.09#
27	s	Decachlorobiphenyl		0.850	0.000	100.0#	0#	-6.95#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1		0.074	0.000	100.0#	0#	-2.96#
30	l1	chlordane-3		0.043	0.000	100.0#	0#	-3.44#
31	l1	chlordane-4		0.148	0.000	100.0#	0#	-4.13#
32	l1	chlordane-5		0.116	0.000	100.0#	0#	-4.30#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1933928,ical
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.231	1.324	95946823	149.4E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1933928,ical
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.413	5.134	574.6E6	467.0E6	2296.964M1	2210.594
35)	l2	toxaphene-2	4.539	5.221	359.5E6	868.4E6	2053.525	2186.436
36)	l2	toxaphene-4	4.960	5.451	344.8E6	521.7E6	2220.469	2010.254
37)	l2	toxaphene-5	5.146	5.861	375.4E6	505.8E6	2048.379	2211.316
	Sum	toxaphene-1			1654.3E6	2362.9E6	8619.338	8618.600
Average		toxaphene-1					2154.834	2154.650

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			1654.3E6	2362.9E6	8619.338	8618.600
Average		toxaphene-1					2154.834	2154.650

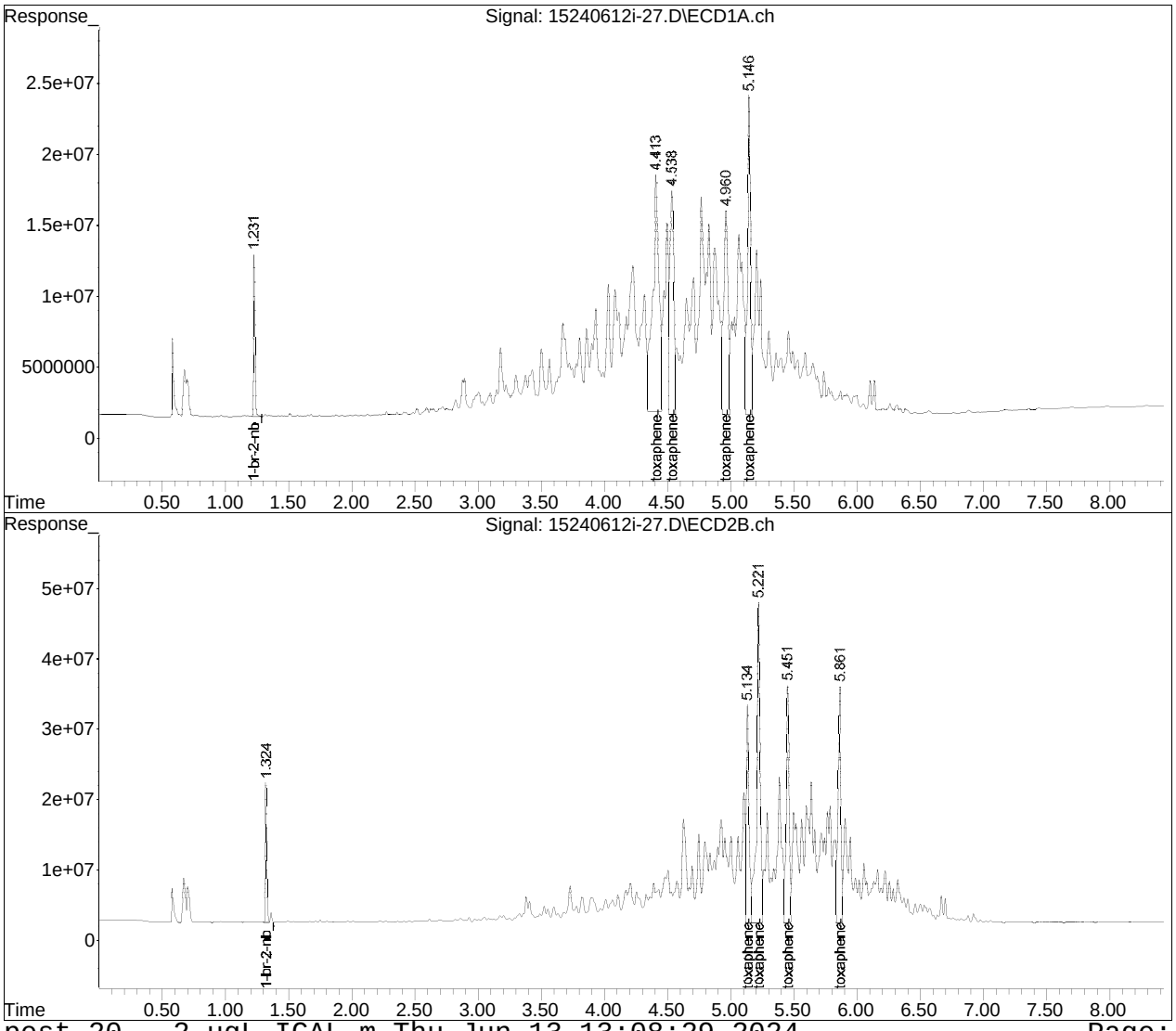
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240612ical\
Data File : 15240612i-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Jun 2024 00:14
Operator : Pest15:kb
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : WG1933928,ical
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 12:15:00 2024
Quant Method : I:\PEST\Pest15\2024\240612ical\P15_pest_2024_06_12_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Jun 13 12:15:00 2024
Response via : Initial Calibration
Integrator: ChemStation

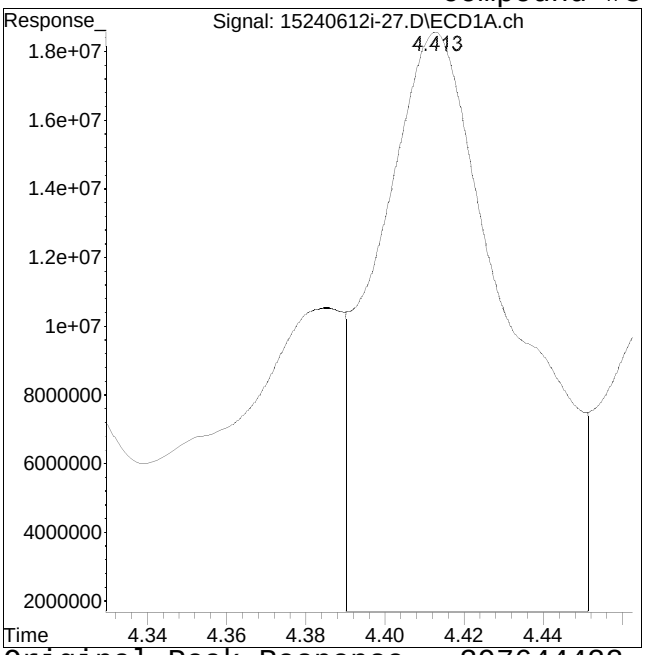
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

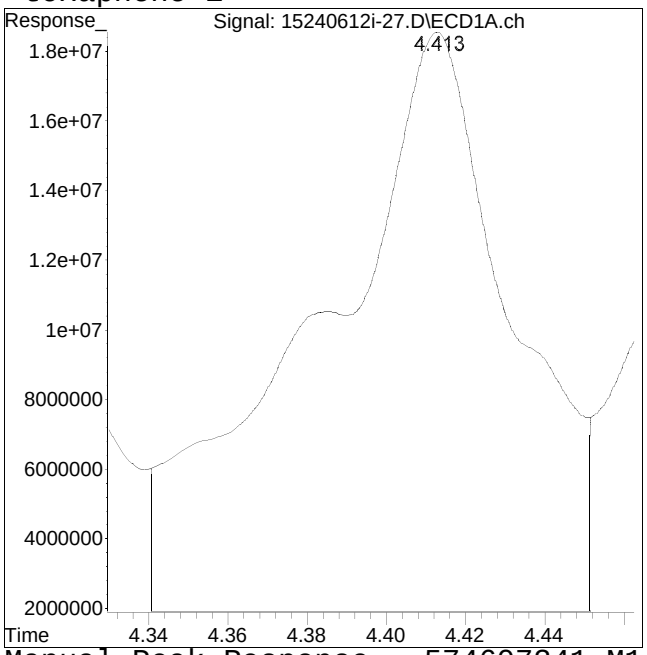


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240612QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240612i-27.D Operator : Pest15:kb
Date Inj'd : 6/13/2024 0:14 Instrument : Pest 15
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 6/13/2024 12:15 pm

Compound #34: toxaphene-1





Original Peak Response = 397644422 Manual Peak Response = 574607341 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Relative Error Report Pest 15

Method Path : I:\PEST\Pest15\2024\240612ical\
Method File : P15_pest_2024_06_12_ugL_ICAL.m
Title : pest
Last Update : Thu Jun 13 12:59:22 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
11	Chlorpyrifos	L	ug/l	50.0	57.243	14.5	4.00	3.049	-23.8
23	Methoxychlor	L	ug/l	50.0	59.026	18.1	3.00	2.180	-27.3
24	Mirex	L	ug/l	50.0	59.293	18.6	4.00	2.874	-28.1
29	L1 chlordane-1	L	ug/l	1000.0	1025.172	2.5	10.00	8.362	-16.4
30	L1 chlordane-3	L	ug/l	1000.0	1025.839	2.6	10.00	6.642	-33.6
31	L1 chlordane-4	L	ug/l	1000.0	1022.196	2.2	10.00	8.301	-17.0
32	L1 chlordane-5	L	ug/l	1000.0	1020.945	2.1	10.00	8.247	-17.5
49	Chlorpyrifos #2	L	ug/l	50.0	55.195	10.4	4.00	3.286	-17.8
61	Methoxychlor #2	L	ug/l	50.0	56.025	12.0	3.00	2.602	-13.3
62	Mirex #2	L	ug/l	50.0	55.214	10.4	4.00	3.498	-12.5

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
11	Chlorpyrifos	Linear	0.993677	0.000000	0.504748	0.0726259
23	Methoxychlor	Linear	0.991487	0.000000	0.53613	0.058257
24	Mirex	Linear	0.996214	0.000000	0.8087	0.125287
29	L1 chlordane-1	Linear	0.996938	0.000000	0.0672232	0.0177759
30	L1 chlordane-3	Linear	0.994225	0.000000	0.0435555	0.0165877
31	L1 chlordane-4	Linear	0.996533	0.000000	0.153384	0.0457657
32	L1 chlordane-5	Linear	0.996318	0.000000	0.235661	0.0636663
49	Chlorpyrifos #2	Linear	0.996282	0.000000	0.504366	0.0613929
61	Methoxychlor #2	Linear	0.996467	0.000000	0.496131	0.0421083
62	Mirex #2	Linear	0.998803	0.000000	0.720202	0.0675313

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 06:51		
Lab File ID	: 15240617a-04	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-2	**Init. Calib. Times**	: 19:40	00:03	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	81	0
chlordane-1	1000	780.72	-	21.9*	20	64	0
chlordane-3	1000	1010.152	-	-1	20	83	0
chlordane-4	1000	987.425	-	1.3	20	81	0
chlordane-5	1000	1078.251	-	-7.8	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 06:51		
Lab File ID	: 15240617a-04	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-2	**Init. Calib. Times**	: 19:40	00:03	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	88	0
chlordane-1	0.074	0.049	-	33.8*	20	69	0
chlordane-3	0.043	0.038	-	11.6	20	93	0
chlordane-4	0.148	0.123	-	16.9	20	87	0
chlordane-5	0.116	0.095	-	18.1	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 07:02		
Lab File ID	: 15240617a-05	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-3	**Init. Calib. Times**	: 19:40	00:03	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	120	0
toxaphene-1	0.065	0.072	-	-10.8	20	135	0
toxaphene-2	0.046	0.043	-	6.5	20	122	0
toxaphene-4	0.04	0.04	-	0	20	131	0
toxaphene-5	0.048	0.044	-	8.3	20	121	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 07:02		
Lab File ID	: 15240617a-05	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-3	**Init. Calib. Times**	: 19:40	00:03	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	131	0
toxaphene-1	0.035	0.036	-	-2.9	20	144	0
toxaphene-2	0.066	0.066	-	0	20	140	0
toxaphene-4	0.043	0.037	-	14	20	125	0
toxaphene-5	0.038	0.037	-	2.6	20	139	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 07:13		
Lab File ID	: 15240617a-06	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-1	**Init. Calib. Times**	: 19:40	00:03	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	96	0
2,4,5,6-Tetrachloro-m-xylen	1.231	1.253	-	-1.8	20	107	0
Hexachlorobenzene	1.269	1.292	-	-1.8	20	105	0
alpha-BHC	1.49	1.642	-	-10.2	20	108	0
gamma-BHC (lindane)	1.433	1.47	-	-2.6	20	105	0
beta-BHC	0.728	0.695	-	4.5	20	107	0
delta-BHC	1.402	1.432	-	-2.1	20	102	0
Heptachlor	1.373	1.421	-	-3.5	20	106	0
Aldrin	1.347	1.396	-	-3.6	20	104	0
Alachlor	0.241	0.23	-	4.6	20	101	0
Chlorpyrifos	50	62.909	-	-25.8*	20	104	0
Heptachlor Epoxide	1.326	1.316	-	0.8	20	102	0
gamma-Chlordane (trans)	1.246	1.358	-	-9	20	113	0
alpha-Chlordane (cis)	1.407	1.344	-	4.5	20	98	0
4,4'-DDE	1.381	1.324	-	4.1	20	95	0
Endosulfan I	1.284	1.242	-	3.3	20	100	0
Dieldrin	1.322	1.414	-	-7	20	107	0
Endrin	1.345	1.35	-	-0.4	20	101	0
4,4'-DDD	1.101	1.124	-	-2.1	20	101	0
Endosulfan II	1.21	1.202	-	0.7	20	101	0
4,4'-DDT	1.113	1.155	-	-3.8	20	97	0
Endrin Aldehyde	1.009	0.887	-	12.1	20	88	0
Methoxychlor	50	59.124	-	-18.2	20	95	0
Mirex	50	59.046	-	-18.1	20	95	0
Endosulfan Sulfate	1.203	1.111	-	7.6	20	100	0
Endrin Ketone	1.311	1.281	-	2.3	20	99	0
Decachlorobiphenyl	1.07	0.642	-	40*	20	53	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST15	**Calibration Date**	: 06/17/24 07:13		
Lab File ID	: 15240617a-06	**Init. Calib. Date(s)**	: 06/12/24	06/13/24	
Sample No	: WG1935124-1	**Init. Calib. Times**	: 19:40	00:03	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	106	0
2,4,5,6-Tetrachloro-m-xyl	1.125	1.157	-	-2.8	20	115	0
Hexachlorobenzene	1.149	1.226	-	-6.7	20	119	0
alpha-BHC	1.429	1.582	-	-10.7	20	117	0
gamma-BHC (lindane)	1.36	1.431	-	-5.2	20	115	0
beta-BHC	0.663	0.645	-	2.7	20	116	0
delta-BHC	1.351	1.391	-	-3	20	110	0
Heptachlor	1.285	1.379	-	-7.3	20	115	0
Aldrin	1.225	1.324	-	-8.1	20	114	0
Alachlor	0.217	0.228	-	-5.1	20	119	0
Chlorpyrifos	50	59.053	-	-18.1	20	111	0
Heptachlor Epoxide	1.197	1.233	-	-3	20	112	0
gamma-Chlordane (trans)	1.108	1.289	-	-16.3	20	128	0
alpha-Chlordane (cis)	1.225	1.229	-	-0.3	20	109	0
4,4'-DDE	1.211	1.232	-	-1.7	20	104	0
Endosulfan I	1.13	1.143	-	-1.2	20	109	0
Dieldrin	1.156	1.285	-	-11.2	20	117	0
Endrin	1.18	1.196	-	-1.4	20	107	0
4,4'-DDD	0.996	1.044	-	-4.8	20	110	0
Endosulfan II	1.071	1.067	-	0.4	20	109	0
4,4'-DDT	1.095	1.091	-	0.4	20	104	0
Endrin Aldehyde	0.915	0.772	-	15.6	20	93	0
Methoxychlor	50	53.238	-	-6.5	20	99	0
Mirex	50	54.08	-	-8.2	20	102	0
Endosulfan Sulfate	1.025	0.948	-	7.5	20	103	0
Endrin Ketone	1.128	1.13	-	-0.2	20	108	0
Decachlorobiphenyl	0.85	0.488	-	42.6*	20	57	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:17		
Lab File ID	: 18240618c-03	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-1	**Init. Calib. Times**	: 13:08	13:01	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	117	0
2,4,5,6-Tetrachloro-m-xylen	0.987	0.998	-	-1.1	20	132	0
Hexachlorobenzene	50	57.611	-	-15.2	20	133	0
alpha-BHC	1.295	1.412	-	-9	20	133	0
gamma-BHC (lindane)	1.214	1.267	-	-4.4	20	130	0
beta-BHC	50	56.552	-	-13.1	20	131	0
delta-BHC	1.217	1.247	-	-2.5	20	127	0
Heptachlor	1.207	1.253	-	-3.8	20	133	0
Aldrin	1.083	1.177	-	-8.7	20	135	0
Alachlor	0.19	0.18	-	5.3	20	123	0
Chlorpyrifos	50	63.01	-	-26*	20	139	0
Heptachlor Epoxide	1.041	1.013	-	2.7	20	125	0
gamma-Chlordane (trans)	0.977	1.122	-	-14.8	20	151	0
alpha-Chlordane (cis)	1.075	1.091	-	-1.5	20	130	0
4,4'-DDE	1.019	1.092	-	-7.2	20	134	0
Endosulfan I	0.985	1	-	-1.5	20	129	0
Dieldrin	1.023	1.161	-	-13.5	20	142	0
Endrin	1.058	1.102	-	-4.2	20	131	0
4,4'-DDD	0.837	0.939	-	-12.2	20	142	0
Endosulfan II	0.925	0.991	-	-7.1	20	136	0
4,4'-DDT	0.915	0.954	-	-4.3	20	128	0
Endrin Aldehyde	50	52.727	-	-5.5	20	125	0
Methoxychlor	50	63.217	-	-26.4*	20	135	0
Mirex	50	59.975	-	-20	20	133	0
Endosulfan Sulfate	0.912	0.969	-	-6.2	20	137	0
Endrin Ketone	1.006	1.095	-	-8.8	20	138	0
Decachlorobiphenyl	50	30.798	-	38.4*	20	71	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:17		
Lab File ID	: 18240618c-03	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-1	**Init. Calib. Times**	: 13:08	13:01	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	132	0
2,4,5,6-Tetrachloro-m-xyl	0.991	1.057	-	-6.7	20	154	0
Hexachlorobenzene	50	59.96	-	-19.9	20	154	0
alpha-BHC	1.279	1.499	-	-17.2	20	156	0
gamma-BHC (lindane)	1.209	1.349	-	-11.6	20	152	0
beta-BHC	50	57.247	-	-14.5	20	149	0
delta-BHC	1.217	1.294	-	-6.3	20	144	0
Heptachlor	1.197	1.394	-	-16.5	20	161	0
Aldrin	1.063	1.311	-	-23.3*	20	166	0
Alachlor	0.189	0.184	-	2.6	20	142	0
Chlorpyrifos	50	67.051	-	-34.1*	20	167	0
Heptachlor Epoxide	1.035	1.175	-	-13.5	20	158	0
gamma-Chlordane (trans)	0.947	1.252	-	-32.2*	20	187	0
alpha-Chlordane (cis)	1.068	1.208	-	-13.1	20	161	0
4,4'-DDE	0.999	1.217	-	-21.8*	20	164	0
Endosulfan I	0.989	1.14	-	-15.3	20	161	0
Dieldrin	1	1.279	-	-27.9*	20	174	0
Endrin	0.979	1.181	-	-20.6*	20	160	0
4,4'-DDD	0.833	1.006	-	-20.8*	20	167	0
Endosulfan II	0.916	1.054	-	-15.1	20	160	0
4,4'-DDT	0.959	1.125	-	-17.3	20	162	0
Endrin Aldehyde	50	55.364	-	-10.7	20	150	0
Methoxychlor	50	67.573	-	-35.1*	20	164	0
Mirex	50	64.968	-	-29.9*	20	162	0
Endosulfan Sulfate	0.881	1.015	-	-15.2	20	164	0
Endrin Ketone	1.009	1.178	-	-16.7	20	163	0
Decachlorobiphenyl	50	38.099	-	23.8*	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:28		
Lab File ID	: 18240618c-04	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-2	**Init. Calib. Times**	: 13:08	13:01	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	129	0
chlordane-1	1000	783.41	-	21.7*	20	98	0
chlordane-3	1000	1017.569	-	-1.8	20	128	0
chlordane-4	1000	1005.301	-	-0.5	20	126	0
chlordane-5	1000	1093.115	-	-9.3	20	137	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:28		
Lab File ID	: 18240618c-04	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-2	**Init. Calib. Times**	: 13:08	13:01	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	144	0
chlordane-1	1000	1049.829	-	-5	20	147	0
chlordane-3	1000	1070.113	-	-7	20	148	0
chlordane-4	1000	1071.915	-	-7.2	20	150	0
chlordane-5	1000	1052.582	-	-5.3	20	147	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:40		
Lab File ID	: 18240618c-05	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-3	**Init. Calib. Times**	: 13:08	13:01	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	131	0
toxaphene-1	0.042	0.044	-	-4.8	20	143	0
toxaphene-2	0.043	0.046	-	-7	20	140	0
toxaphene-3	0.042	0.045	-	-7.1	20	142	0
toxaphene-4	0.041	0.04	-	2.4	20	140	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST18	**Calibration Date**	: 06/18/24 12:40		
Lab File ID	: 18240618c-05	**Init. Calib. Date(s)**	: 02/22/24	03/01/24	
Sample No	: WG1935928-3	**Init. Calib. Times**	: 13:08	13:01	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	143	0
toxaphene-1	0.02	0.026	-	-30*	20	173	0
toxaphene-2	0.031	0.039	-	-25.8*	20	170	0
toxaphene-3	0.036	0.044	-	-22.2*	20	163	0
toxaphene-4	0.034	0.041	-	-20.6*	20	169	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	81	0.00
29	l1	chlordane-1		*1000.000	780.720	21.9#	64	0.00
30	l1	chlordane-3		*1000.000	1010.152	-1.0	83	0.00
31	l1	chlordane-4		*1000.000	987.425	1.3	81	0.00
32	l1	chlordane-5		*1000.000	1078.251	-7.8	89	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	88	0.00
29	l1	chlordane-1		0.074	0.049	33.8#	69	0.00
30	l1	chlordane-3		0.043	0.038	11.6	93	0.00
31	l1	chlordane-4		0.148	0.123	16.9	87	0.00
32	l1	chlordane-5		0.116	0.095	18.1	86	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.23#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	0.000	100.0#	0#	-1.59#
3		Hexachlorobenzene		1.269	0.000	100.0#	0#	-1.81#
4		alpha-BHC		1.490	0.000	100.0#	0#	-1.91#
5		gamma-BHC (lindane)		1.433	0.000	100.0#	0#	-2.12#
6		beta-BHC		0.728	0.000	100.0#	0#	-2.18#
7		delta-BHC		1.402	0.000	100.0#	0#	-2.30#
8		Heptachlor		1.373	0.000	100.0#	0#	-2.47#
9		Aldrin		1.347	0.000	100.0#	0#	-2.71#
10		Alachlor		0.241	0.000	100.0#	0#	-2.83#
11		Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.92#
12		Heptachlor Epoxide		1.326	0.000	100.0#	0#	-3.25#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
13		gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.38#
14		alpha-Chlordane (cis)		1.407	0.000	100.0#	0#	-3.51#
15		4,4'-DDE		1.381	0.000	100.0#	0#	-3.61#
16		Endosulfan I		1.284	0.000	100.0#	0#	-3.64#
17		Dieldrin		1.322	0.000	100.0#	0#	-3.90#
18		Endrin		1.345	0.000	100.0#	0#	-4.16#
19		4,4'-DDD		1.101	0.000	100.0#	0#	-4.27#
20		Endosulfan II		1.210	0.000	100.0#	0#	-4.40#
21		4,4'-DDT		1.113	0.000	100.0#	0#	-4.57#
22		Endrin Aldehyde		1.009	0.000	100.0#	0#	-4.83#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.07#
24		Mirex	*	50.000	0.000	100.0#	0	-5.12#
25		Endosulfan Sulfate		1.203	0.000	100.0#	0#	-5.22#
26		Endrin Ketone		1.311	0.000	100.0#	0#	-5.45#
27	s	Decachlorobiphenyl		1.070	0.000	100.0#	0#	-6.27#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.23#
34	l2	toxaphene-1		0.065	0.000	100.0#	0#	-4.39#
35	l2	toxaphene-2		0.046	0.000	100.0#	0#	-4.52#
36	l2	toxaphene-4		0.040	0.000	100.0#	0#	-4.94#
37	l2	toxaphene-5		0.048	0.000	100.0#	0#	-5.13#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	0.000	100.0#	0#	-1.83#
3		Hexachlorobenzene		1.149	0.000	100.0#	0#	-2.15#
4		alpha-BHC		1.429	0.000	100.0#	0#	-2.25#
5		gamma-BHC (lindane)		1.360	0.000	100.0#	0#	-2.54#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
6		beta-BHC		0.663	0.000	100.0#	0#	-2.61#
7		delta-BHC		1.351	0.000	100.0#	0#	-2.88#
8		Heptachlor		1.285	0.000	100.0#	0#	-2.95#
9		Aldrin		1.225	0.000	100.0#	0#	-3.27#
10		Alachlor		0.217	0.000	100.0#	0#	-3.15#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide		1.197	0.000	100.0#	0#	-3.89#
13		gamma-Chlordane (trans)		1.108	0.000	100.0#	0#	-4.11#
14		alpha-Chlordane (cis)		1.225	0.000	100.0#	0#	-4.28#
15		4,4'-DDE		1.211	0.000	100.0#	0#	-4.48#
16		Endosulfan I		1.130	0.000	100.0#	0#	-4.34#
17		Dieldrin		1.156	0.000	100.0#	0#	-4.63#
18		Endrin		1.180	0.000	100.0#	0#	-4.93#
19		4,4'-DDD		0.996	0.000	100.0#	0#	-5.06#
20		Endosulfan II		1.071	0.000	100.0#	0#	-5.13#
21		4,4'-DDT		1.095	0.000	100.0#	0#	-5.33#
22		Endrin Aldehyde		0.915	0.000	100.0#	0#	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24		Mirex	*	50.000	0.000	100.0#	0	-6.04#
25		Endosulfan Sulfate		1.025	0.000	100.0#	0#	-5.66#
26		Endrin Ketone		1.128	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl		0.850	0.000	100.0#	0#	-6.94#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1		0.035	0.000	100.0#	0#	-5.12#
35	l2	toxaphene-2		0.066	0.000	100.0#	0#	-5.21#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-5		0.038	0.000	100.0#	0#	-5.85#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Jun 2024   6:51 am
Operator : Pest15:akm
Sample   : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1935124,,ical21192
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
...   2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.218	1.313	83280616	156.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)		Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	2.464	2.944	176.3E6	306.9E6	780.720	664.323
30)	l1	chlordane-3	2.819	3.418	147.9E6	237.8E6	1010.152	877.056
31)	l1	chlordane-4	3.374	4.106	508.3E6	768.7E6	987.425	833.677
32)	l1	chlordane-5	3.498	4.279	851.8E6	593.4E6	1078.251M3	820.828
		Sum chlordane-1			1684.4E6	1906.9E6	N.D.	N.D. D
		Average chlordane-1					964.137	798.971
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

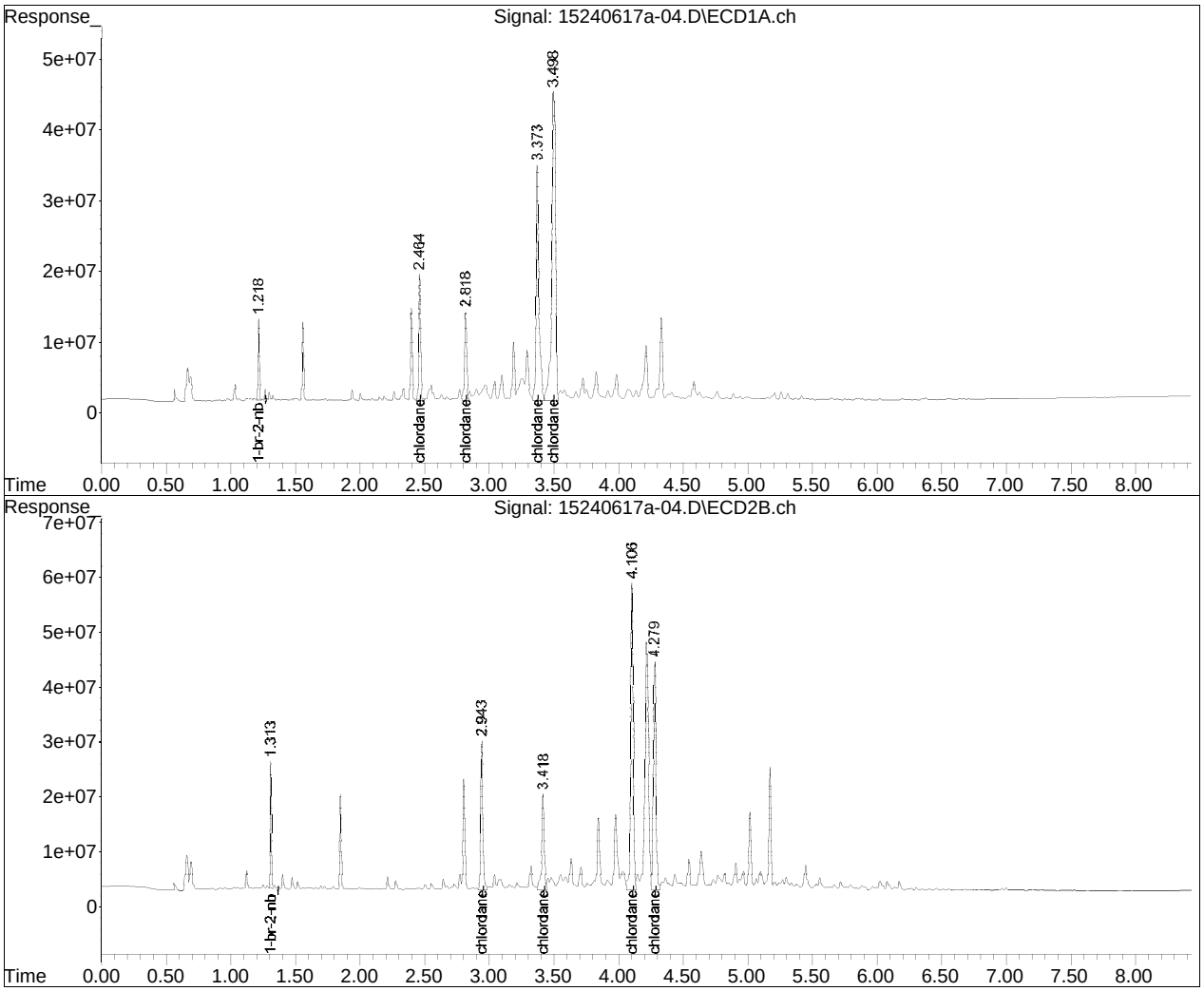
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:51 am
Operator : Pest15:akm
Sample : wg1935124-2,42,, chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:11:54 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:11:48 2024
Response via : Initial Calibration
Integrator: ChemStation

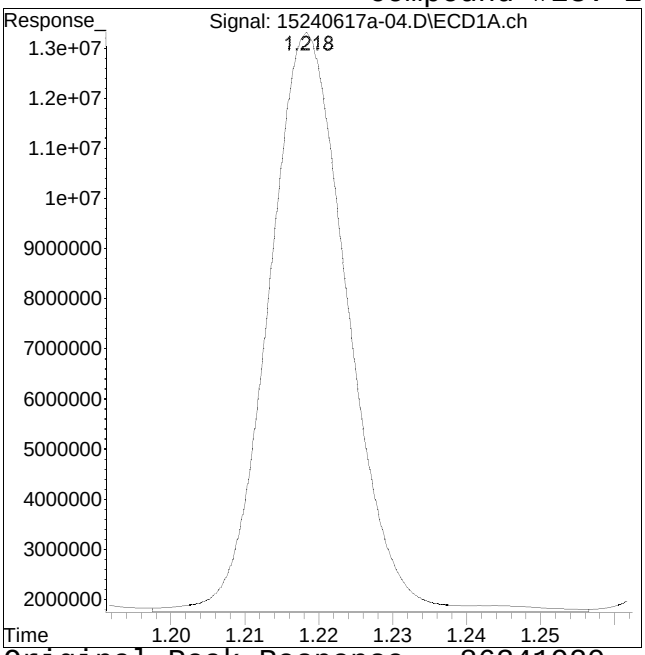
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

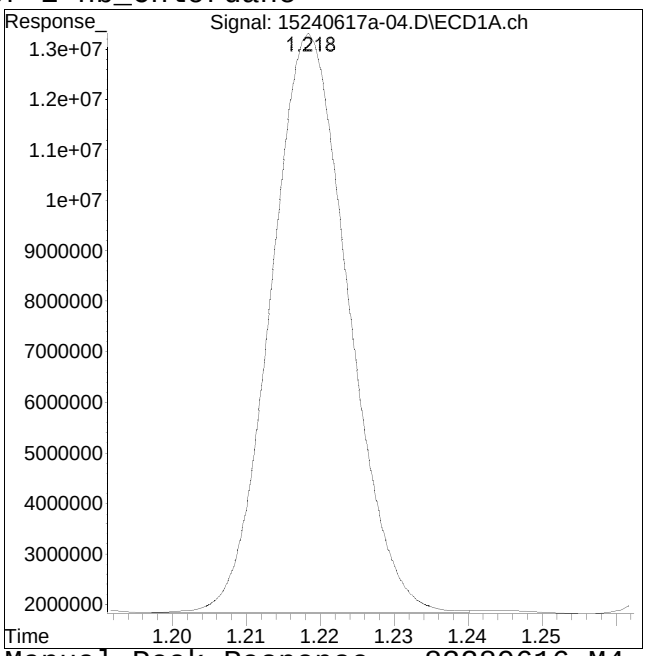


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-04.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:51 am Instrument : Pest 15
Sample : wg1935124-2,42,, chlor1161Quant Date : 6/17/2024 7:11 am

Compound #28: 1-br-2-nb_Chlordane



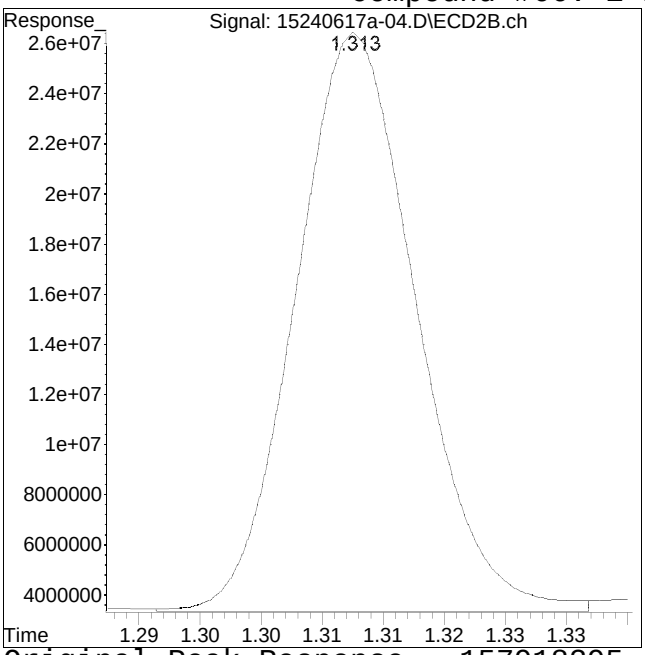


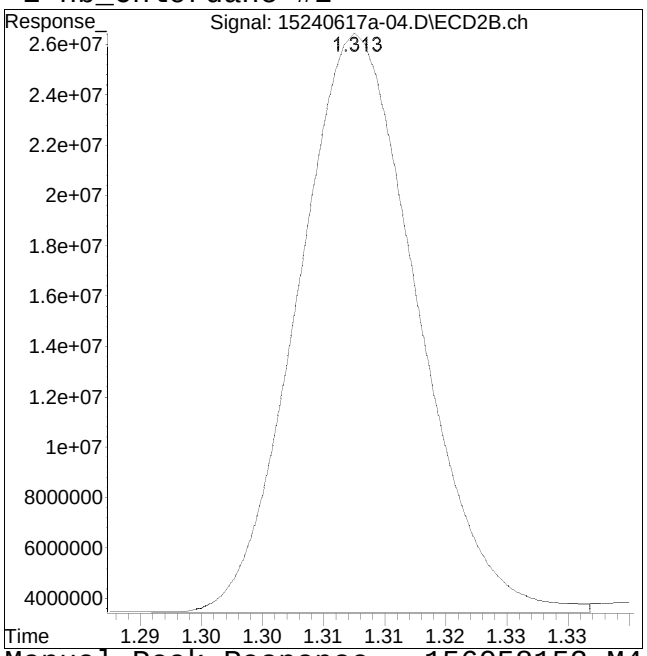
Original Peak Response = 86341920 Manual Peak Response = 83280616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-04.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:51 am Instrument : Pest 15
Sample : wg1935124-2,42,, chlor1161Quant Date : 6/17/2024 7:11 am

Compound #66: 1-br-2-nb_Chlordane #2



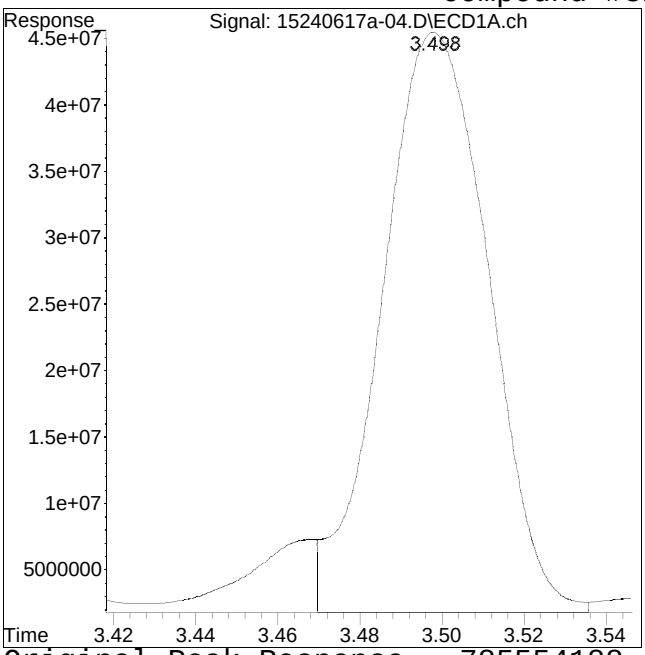


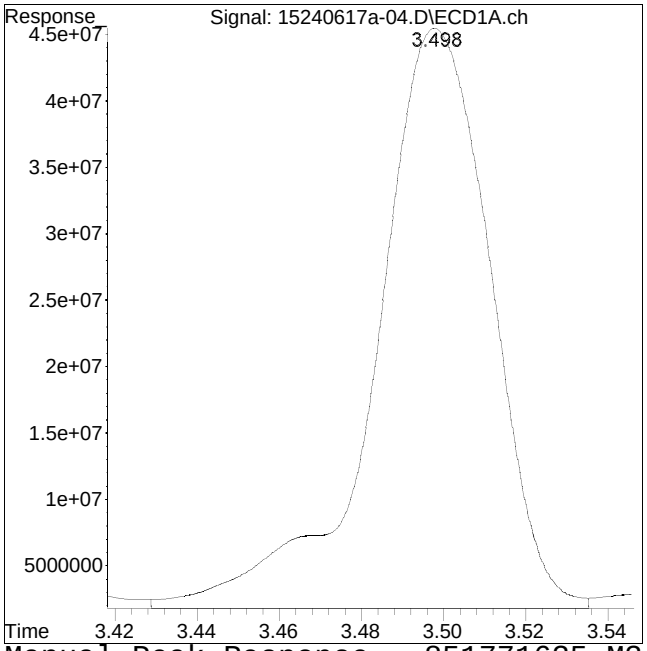
Original Peak Response = 157918395 Manual Peak Response = 156058152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-04.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:51 am Instrument : Pest 15
Sample : wg1935124-2,42,, chlor1161Quant Date : 6/17/2024 7:11 am

Compound #32: chlordane-5





Original Peak Response = 785554188 Manual Peak Response = 851771635 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	120	0.00
34	l2	toxaphene-1		0.065	0.072	-10.8	135	0.00
35	l2	toxaphene-2		0.046	0.043	6.5	122	0.00
36	l2	toxaphene-4		0.040	0.040	0.0	131	0.00
37	l2	toxaphene-5		0.048	0.044	8.3	121	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	131	0.00
34	l2	toxaphene-1		0.035	0.036	-2.9	144	0.00
35	l2	toxaphene-2		0.066	0.066	0.0	140	0.00
36	l2	toxaphene-4		0.043	0.037	14.0	125	0.00
37	l2	toxaphene-5		0.038	0.037	2.6	139	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.23#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	0.000	100.0#	0#	-1.59#
3		Hexachlorobenzene		1.269	0.000	100.0#	0#	-1.81#
4		alpha-BHC		1.490	0.000	100.0#	0#	-1.91#
5		gamma-BHC (lindane)		1.433	0.000	100.0#	0#	-2.12#
6		beta-BHC		0.728	0.000	100.0#	0#	-2.18#
7		delta-BHC		1.402	0.000	100.0#	0#	-2.30#
8		Heptachlor		1.373	0.000	100.0#	0#	-2.47#
9		Aldrin		1.347	0.000	100.0#	0#	-2.71#
10		Alachlor		0.241	0.000	100.0#	0#	-2.83#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.92#
12		Heptachlor Epoxide		1.326	0.000	100.0#	0#	-3.25#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
13		gamma-Chlordane (trans)		1.246	0.000	100.0#	0#	-3.38#
14		alpha-Chlordane (cis)		1.407	0.000	100.0#	0#	-3.51#
15		4,4'-DDE		1.381	0.000	100.0#	0#	-3.61#
16		Endosulfan I		1.284	0.000	100.0#	0#	-3.64#
17		Dieldrin		1.322	0.000	100.0#	0#	-3.90#
18		Endrin		1.345	0.000	100.0#	0#	-4.16#
19		4,4'-DDD		1.101	0.000	100.0#	0#	-4.27#
20		Endosulfan II		1.210	0.000	100.0#	0#	-4.40#
21		4,4'-DDT		1.113	0.000	100.0#	0#	-4.57#
22		Endrin Aldehyde		1.009	0.000	100.0#	0#	-4.83#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.07#
24		Mirex	*	50.000	0.000	100.0#	0	-5.12#
25		Endosulfan Sulfate		1.203	0.000	100.0#	0#	-5.22#
26		Endrin Ketone		1.311	0.000	100.0#	0#	-5.45#
27	s	Decachlorobiphenyl		1.070	0.000	100.0#	0#	-6.27#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.22#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.82#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.37#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.50#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	0.000	100.0#	0#	-1.83#
3		Hexachlorobenzene		1.149	0.000	100.0#	0#	-2.15#
4		alpha-BHC		1.429	0.000	100.0#	0#	-2.25#
5		gamma-BHC (lindane)		1.360	0.000	100.0#	0#	-2.54#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
6		beta-BHC		0.663	0.000	100.0#	0#	-2.61#
7		delta-BHC		1.351	0.000	100.0#	0#	-2.88#
8		Heptachlor		1.285	0.000	100.0#	0#	-2.95#
9		Aldrin		1.225	0.000	100.0#	0#	-3.27#
10		Alachlor		0.217	0.000	100.0#	0#	-3.15#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12		Heptachlor Epoxide		1.197	0.000	100.0#	0#	-3.89#
13		gamma-Chlordane (trans)		1.108	0.000	100.0#	0#	-4.11#
14		alpha-Chlordane (cis)		1.225	0.000	100.0#	0#	-4.28#
15		4,4'-DDE		1.211	0.000	100.0#	0#	-4.48#
16		Endosulfan I		1.130	0.000	100.0#	0#	-4.34#
17		Dieldrin		1.156	0.000	100.0#	0#	-4.63#
18		Endrin		1.180	0.000	100.0#	0#	-4.93#
19		4,4'-DDD		0.996	0.000	100.0#	0#	-5.06#
20		Endosulfan II		1.071	0.000	100.0#	0#	-5.13#
21		4,4'-DDT		1.095	0.000	100.0#	0#	-5.33#
22		Endrin Aldehyde		0.915	0.000	100.0#	0#	-5.43#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24		Mirex	*	50.000	0.000	100.0#	0	-6.04#
25		Endosulfan Sulfate		1.025	0.000	100.0#	0#	-5.66#
26		Endrin Ketone		1.128	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl		0.850	0.000	100.0#	0#	-6.94#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		0.074	0.000	100.0#	0#	-2.94#
30	l1	chlordane-3		0.043	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4		0.148	0.000	100.0#	0#	-4.11#
32	l1	chlordane-5		0.116	0.000	100.0#	0#	-4.28#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Jun 2024   7:02 am
Operator : Pest15:akm
Sample   : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc   : wg1935124,,ical21192
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
...   2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.230	1.322	112.9E6	196.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.391	5.120	652.9E6	561.5E6	2217.438M3	2022.016
35) l2	toxaphene-2	4.519	5.208	388.2E6	1037.1E6	1883.663	1986.225
36) l2	toxaphene-4	4.942	5.438	364.8E6	588.3E6	1995.823	1724.430
37) l2	toxaphene-5	5.129	5.849	393.8E6	586.6E6	1825.720	1950.917
Sum	toxaphene-1			1799.7E6	2773.6E6	7922.644	7683.587
Average	toxaphene-1					1980.661	1920.897

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1799.7E6	2773.6E6	7922.644	7683.587
Average	toxaphene-1					1980.661	1920.897

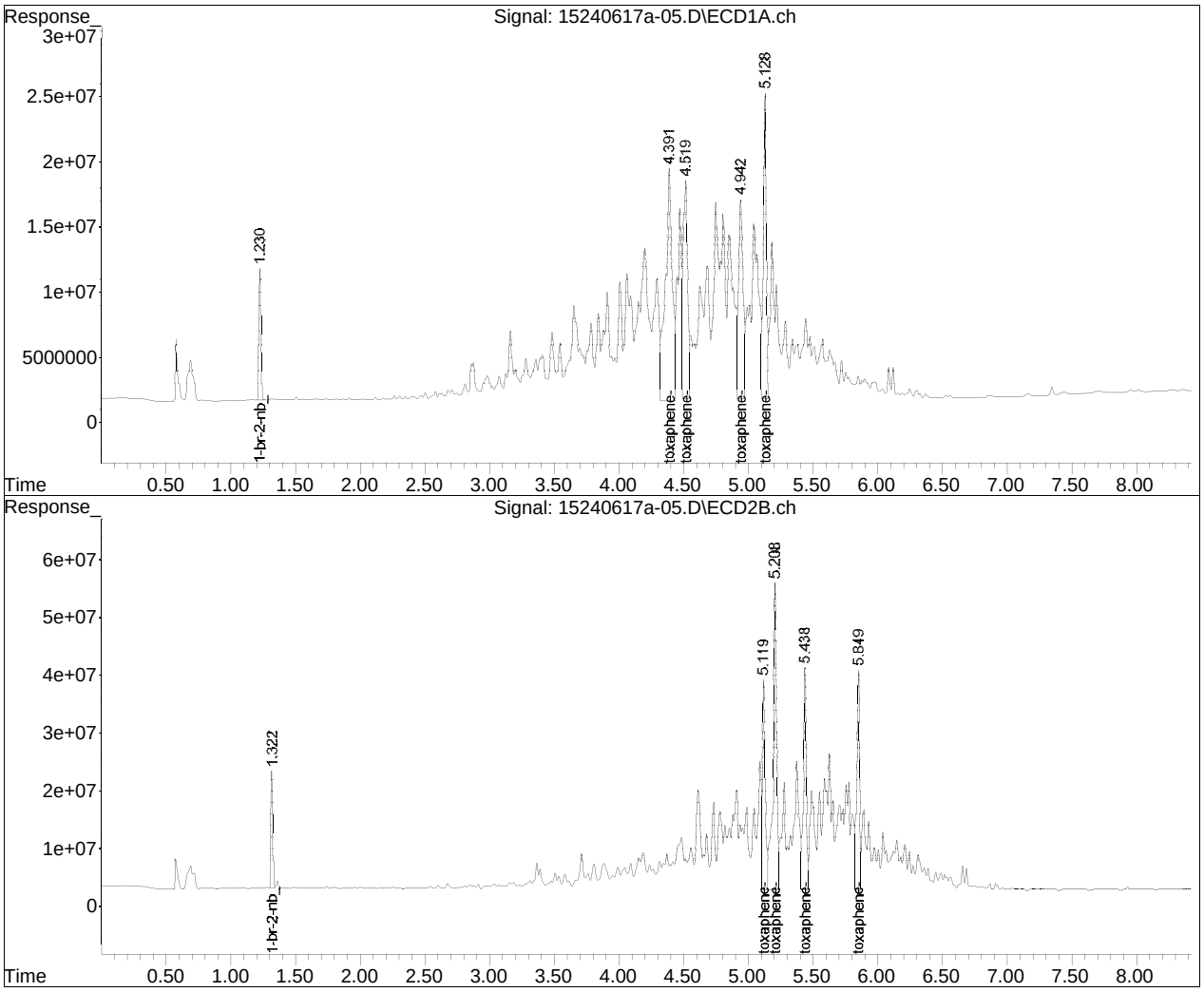
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:02 am
Operator : Pest15:akm
Sample : wg1935124-3,42,, tox11541 (Sig #1); tox11541 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:13:51 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

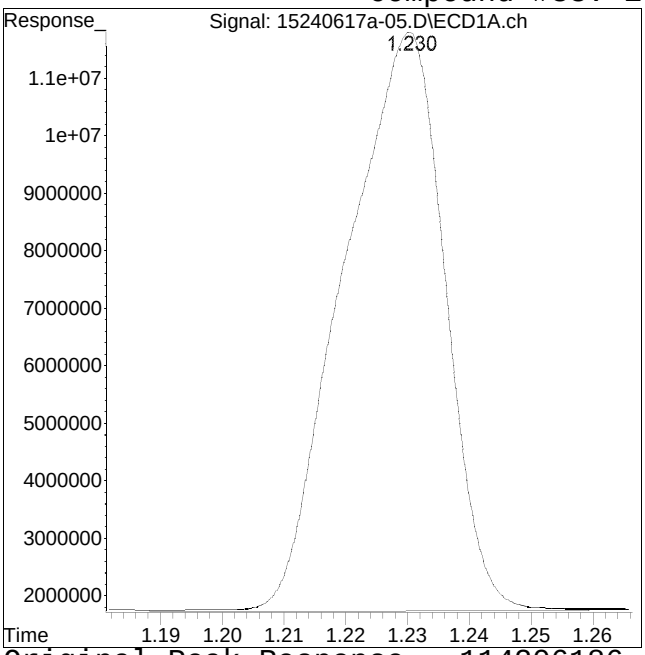
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

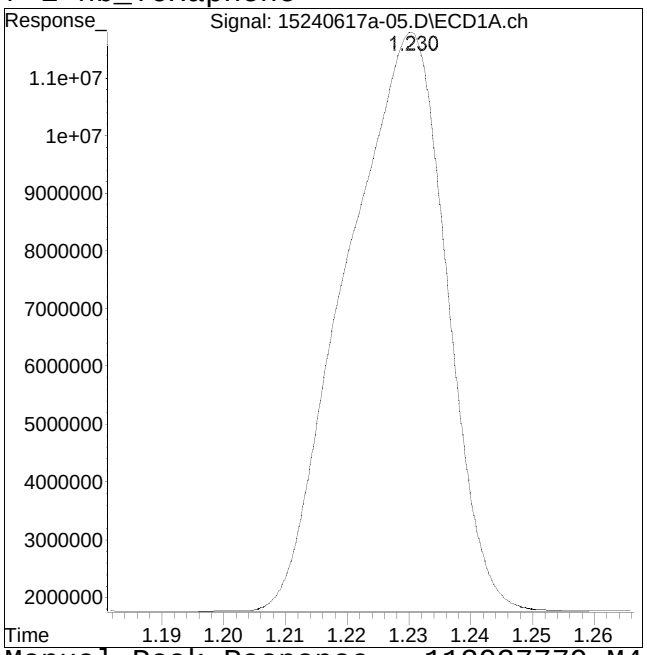


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-05.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:02 am Instrument : Pest 15
Sample : wg1935124-3,42,, tox11541 Quant Date : 6/17/2024 7:13 am

Compound #33: 1-br-2-nb_Toxaphene



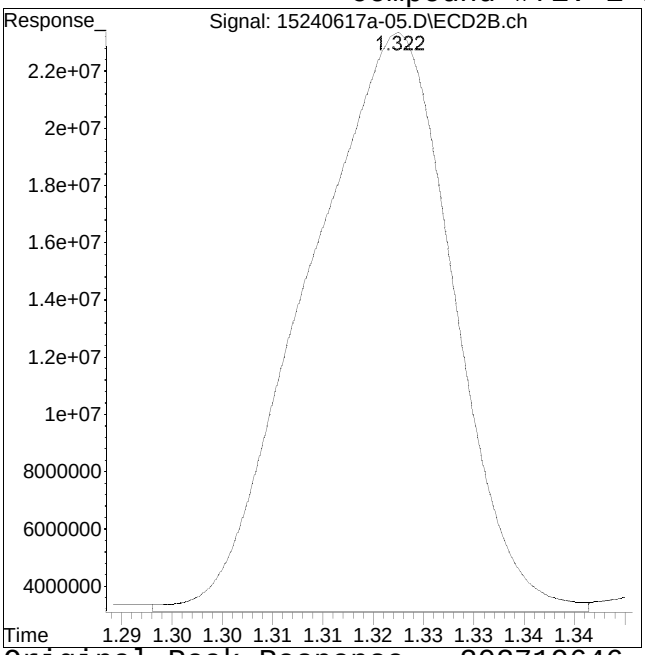


Original Peak Response = 114206186 Manual Peak Response = 112937779 M4
M4 = Poor automated baseline construction.

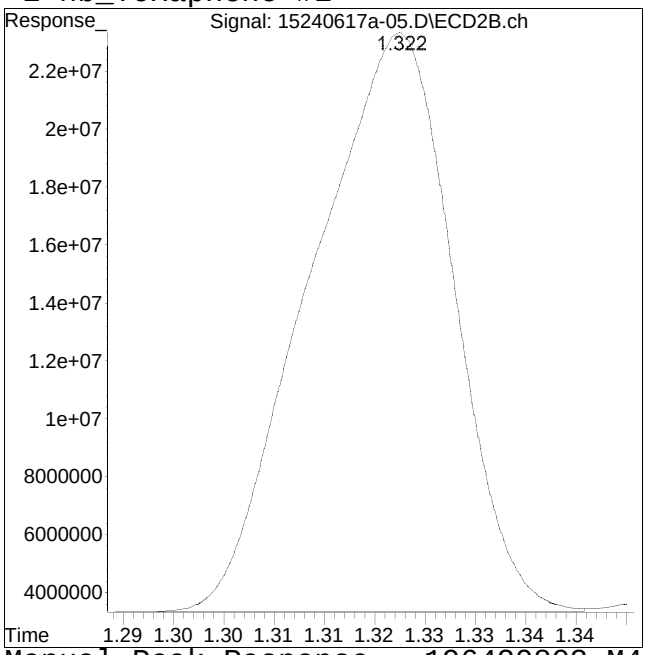
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-05.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:02 am Instrument : Pest 15
Sample : wg1935124-3,42,, tox11541 Quant Date : 6/17/2024 7:13 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 202719646



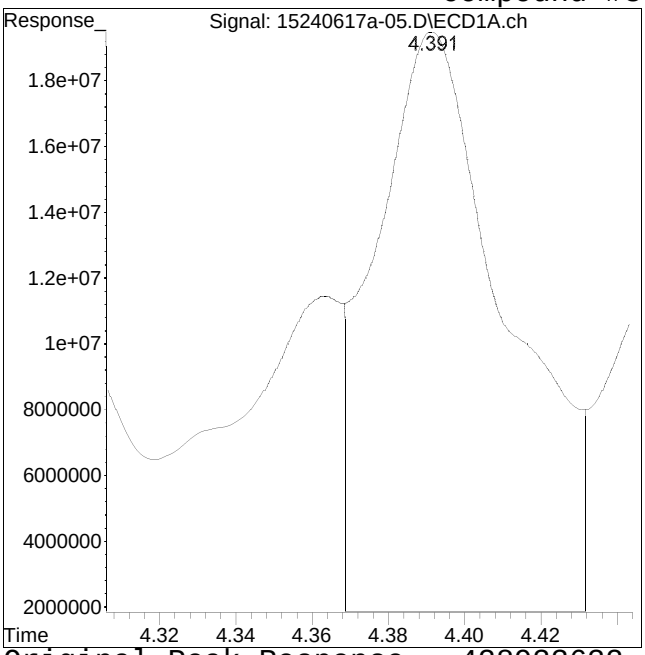
Manual Peak Response = 196420803 M4

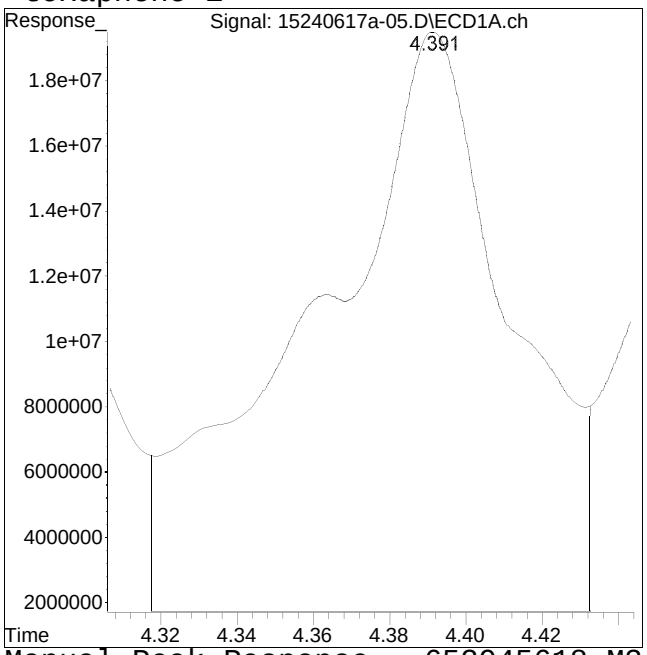
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-05.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:02 am Instrument : Pest 15
Sample : wg1935124-3,42,, tox11541 Quant Date : 6/17/2024 7:13 am

Compound #34: toxaphene-1





Original Peak Response = 428933632 Manual Peak Response = 652945618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.231	1.253	-1.8	107	0.00
3		Hexachlorobenzene		1.269	1.292	-1.8	105	0.00
4		alpha-BHC		1.490	1.642	-10.2	108	0.00
5		gamma-BHC (lindane)		1.433	1.470	-2.6	105	0.00
6		beta-BHC		0.728	0.695	4.5	107	0.00
7		delta-BHC		1.402	1.432	-2.1	102	0.00
8		Heptachlor		1.373	1.421	-3.5	106	0.00
9		Aldrin		1.347	1.396	-3.6	104	0.00
10		Alachlor		0.241	0.230	4.6	101	0.00
11		Chlorpyrifos	*	50.000	62.909	-25.8#	104	0.00
12		Heptachlor Epoxide		1.326	1.316	0.8	102	0.00
13		gamma-Chlordane (trans)		1.246	1.358	-9.0	113	0.00
14		alpha-Chlordane (cis)		1.407	1.344	4.5	98	0.00
15		4,4'-DDE		1.381	1.324	4.1	95	0.00
16		Endosulfan I		1.284	1.242	3.3	100	0.00
17		Dieldrin		1.322	1.414	-7.0	107	0.00
18		Endrin		1.345	1.350	-0.4	101	0.00
19		4,4'-DDD		1.101	1.124	-2.1	101	0.00
20		Endosulfan II		1.210	1.202	0.7	101	0.00
21		4,4'-DDT		1.113	1.155	-3.8	97	0.00
22		Endrin Aldehyde		1.009	0.887	12.1	88	0.00
23		Methoxychlor	*	50.000	59.124	-18.2	95	0.00
24		Mirex	*	50.000	59.046	-18.1	95	0.00
25		Endosulfan Sulfate		1.203	1.111	7.6	100	0.00
26		Endrin Ketone		1.311	1.281	2.3	99	0.00
27	s	Decachlorobiphenyl		1.070	0.642	40.0#	53	0.00

Signal #2

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.125	1.157	-2.8	115	0.00
3		Hexachlorobenzene		1.149	1.226	-6.7	119	0.00
4		alpha-BHC		1.429	1.582	-10.7	117	0.00
5		gamma-BHC (lindane)		1.360	1.431	-5.2	115	0.00
6		beta-BHC		0.663	0.645	2.7	116	0.00
7		delta-BHC		1.351	1.391	-3.0	110	0.00
8		Heptachlor		1.285	1.379	-7.3	115	0.00
9		Aldrin		1.225	1.324	-8.1	114	0.00
10		Alachlor		0.217	0.228	-5.1	119	0.00
11		Chlorpyrifos	*	50.000	59.053	-18.1	111	0.00
12		Heptachlor Epoxide		1.197	1.233	-3.0	112	0.00
13		gamma-Chlordane (trans)		1.108	1.289	-16.3	128	0.00
14		alpha-Chlordane (cis)		1.225	1.229	-0.3	109	0.00
15		4,4'-DDE		1.211	1.232	-1.7	104	0.00
16		Endosulfan I		1.130	1.143	-1.2	109	0.00
17		Dieldrin		1.156	1.285	-11.2	117	0.00
18		Endrin		1.180	1.196	-1.4	107	0.00
19		4,4'-DDD		0.996	1.044	-4.8	110	0.00
20		Endosulfan II		1.071	1.067	0.4	109	0.00
21		4,4'-DDT		1.095	1.091	0.4	104	0.00
22		Endrin Aldehyde		0.915	0.772	15.6	93	0.00
23		Methoxychlor	*	50.000	53.238	-6.5	99	0.00
24		Mirex	*	50.000	54.080	-8.2	102	0.00
25		Endosulfan Sulfate		1.025	0.948	7.5	103	0.00
26		Endrin Ketone		1.128	1.130	-0.2	108	0.00
27	s	Decachlorobiphenyl		0.850	0.488	42.6#	57	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Jun 2024   7:13 am
Operator : Pest15:akm
Sample   : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1935124,,ical21192
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
...   2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.22#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.82#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.37#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.50#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.23#
34	l2	toxaphene-1		0.065	0.000	100.0#	0#	-4.39#
35	l2	toxaphene-2		0.046	0.000	100.0#	0#	-4.52#
36	l2	toxaphene-4		0.040	0.000	100.0#	0#	-4.94#
37	l2	toxaphene-5		0.048	0.000	100.0#	0#	-5.13#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		0.074	0.000	100.0#	0#	-2.94#
30	l1	chlordane-3		0.043	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4		0.148	0.000	100.0#	0#	-4.11#
32	l1	chlordane-5		0.116	0.000	100.0#	0#	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1		0.035	0.000	100.0#	0#	-5.12#
35	l2	toxaphene-2		0.066	0.000	100.0#	0#	-5.21#
36	l2	toxaphene-4		0.043	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-5		0.038	0.000	100.0#	0#	-5.85#

* Evaluation of CC level amount vs concentration.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Jun 2024   7:13 am
Operator : Pest15:akm
Sample   : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1935124,,ical21192
ALS Vial : 6   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
...   2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.229	1.321	93207096	165.2E6	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.595	1.825	233.5E6	382.4E6	50.890	51.407
	Spiked Amount 50.000	Range 30 - 150		Recovery =		101.78%	102.81%
27) s	Decachlorobi	6.266	6.940	119.7E6	161.3E6	30.001	28.715
	Spiked Amount 50.000	Range 30 - 150		Recovery =		60.00%	57.43%
	Target Compounds						
3)	Hexachlorobe	1.813	2.153	240.8E6	405.2E6	50.878	53.346
4)	alpha-BHC	1.914	2.253	306.1E6	522.7E6	55.083	55.345
5)	gamma-BHC (l	2.118	2.543	274.1E6	472.8E6	51.290	52.613
6)	beta-BHC	2.176	2.608	129.5E6	213.2E6	47.721	48.672
7)	delta-BHC	2.305	2.877	266.9E6	459.8E6	51.053	51.496
8)	Heptachlor	2.468	2.945	264.9E6	455.8E6	51.763	53.674
9)	Aldrin	2.710	3.266	260.3E6	437.5E6	51.811	54.022
10)	Alachlor	2.830	3.151	42840926	75245656	47.717	52.524
11)	Chlorpyrifos	2.924	3.508	125.2E6	207.0E6	62.909	59.053
12)	Heptachlor E	3.251	3.886	245.4E6	407.6E6	49.631	51.538
13)	gamma-Chlord	3.375	4.107	253.1E6	425.8E6	54.499	58.131
14)	alpha-Chlord	3.509	4.279	250.6E6	406.2E6	47.782	50.175M4
15)	4,4'-DDE	3.608	4.478	246.8E6	407.1E6	47.923	50.845M4
16)	Endosulfan I	3.644	4.339	231.5E6	377.6E6	48.339	50.579M4
17)	Dieldrin	3.903	4.634	263.6E6	424.5E6	53.470	55.559M4

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	4.157	4.933	251.7E6	395.1E6	50.199	50.665M4
19)	4,4'-DDD	4.273	5.055	209.5E6	345.0E6	51.036	52.411M4
20)	Endosulfan I	4.403	5.131	224.2E6	352.5E6	49.683	49.808M4
21)	4,4'-DDT	4.572	5.334	215.2E6	360.4E6	51.854	49.814M4
22)	Endrin Aldeh	4.826	5.430	165.3E6	255.1E6	43.926	42.205M4
23)	Methoxychlor	5.069	5.903	123.6E6	181.5E6	59.124	53.238M4
24)	Mirex	5.121	6.040	189.7E6	268.6E6	59.046M3	54.080M4
25)	Endosulfan S	5.223	5.660	207.2E6	313.4E6	46.197	46.255M4
26)	Endrin Keton	5.452	6.074	238.9E6	373.6E6	48.877	50.111M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

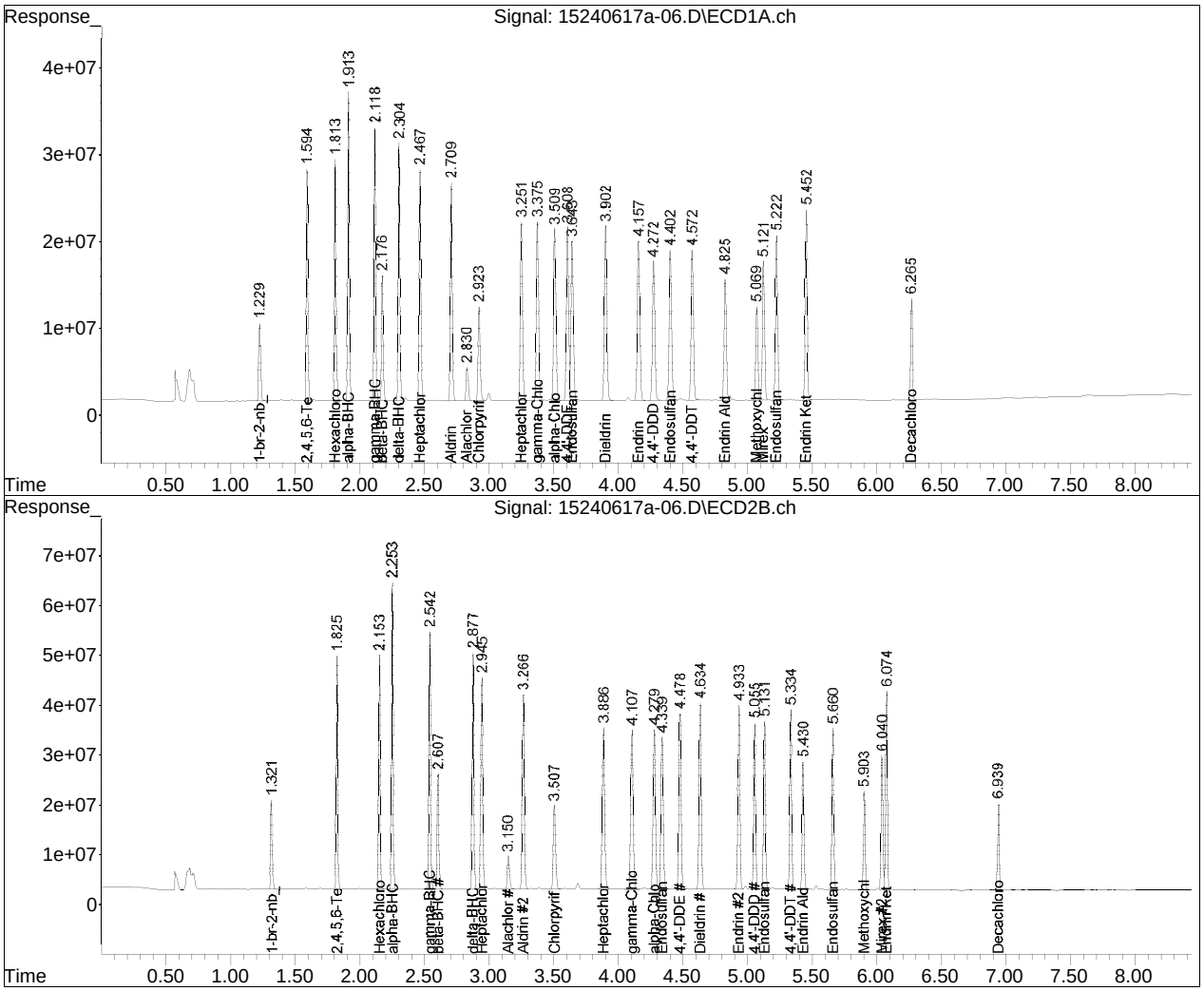
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 7:13 am
Operator : Pest15:akm
Sample : wg1935124-1,42,, pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:31:52 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:46 2024
Response via : Initial Calibration
Integrator: ChemStation

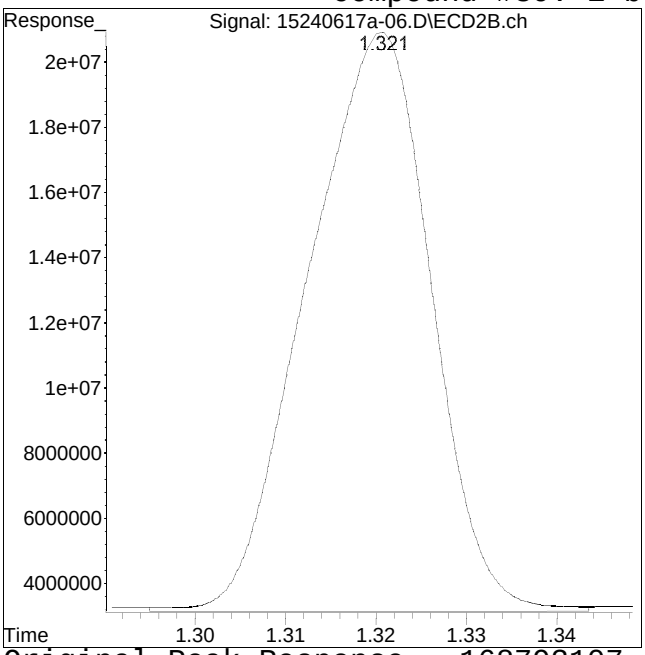
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

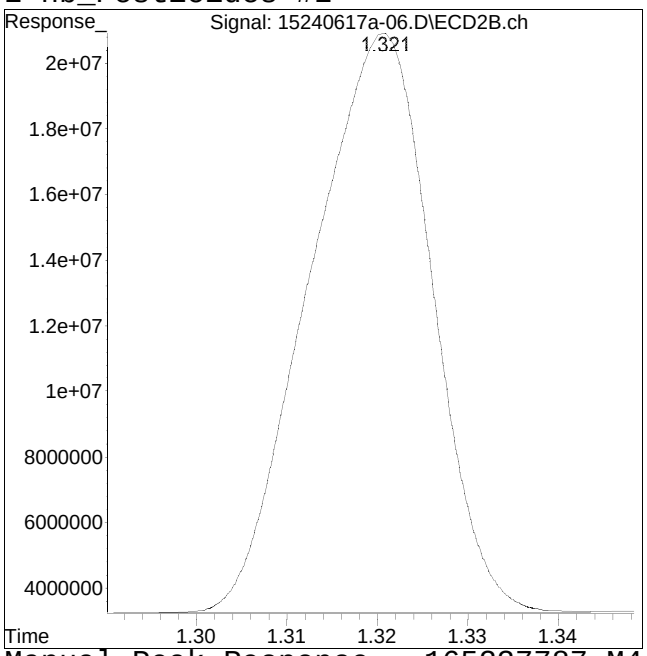


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #39: 1-br-2-nb_Pesticides #2



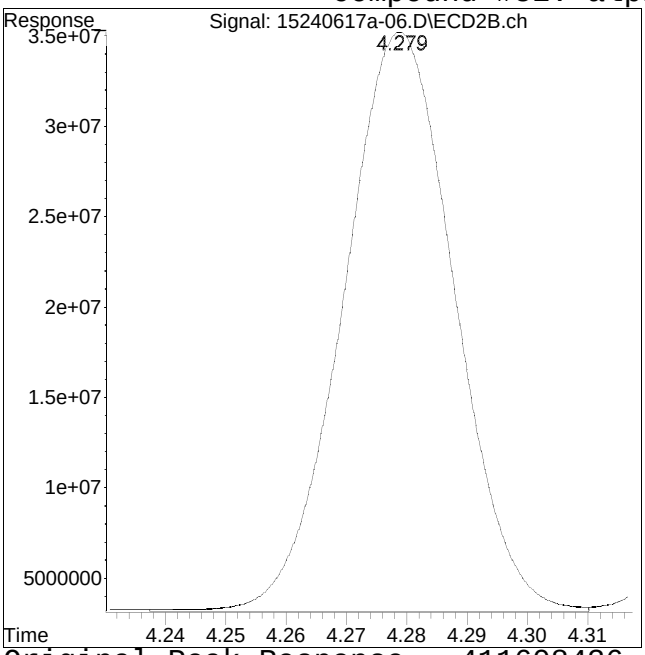


Original Peak Response = 168793107 Manual Peak Response = 165237787 M4
M4 = Poor automated baseline construction.

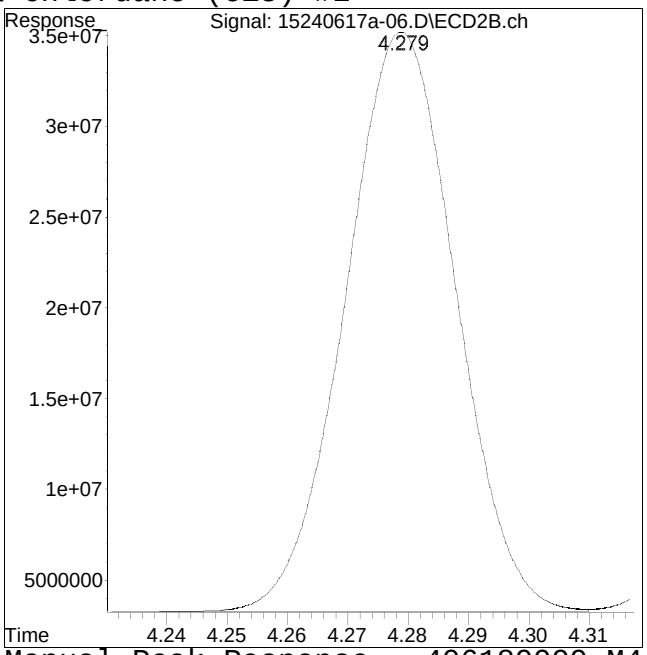
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 411608436



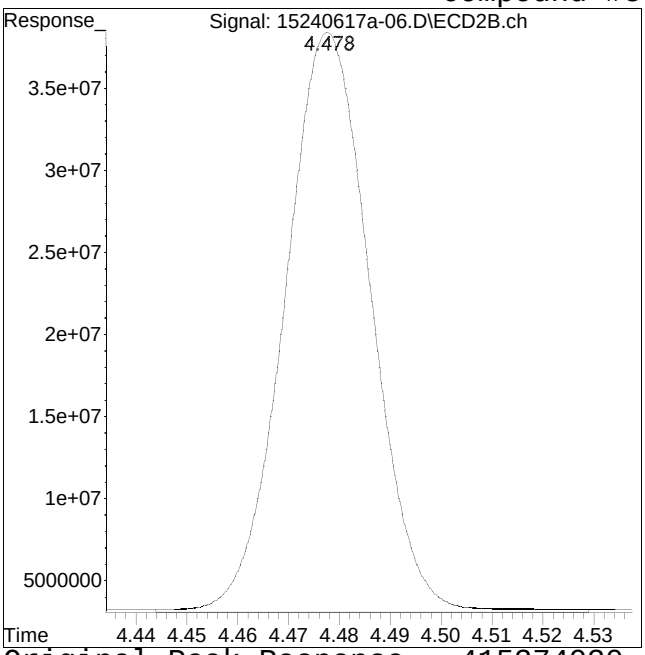
Manual Peak Response = 406189999 M4

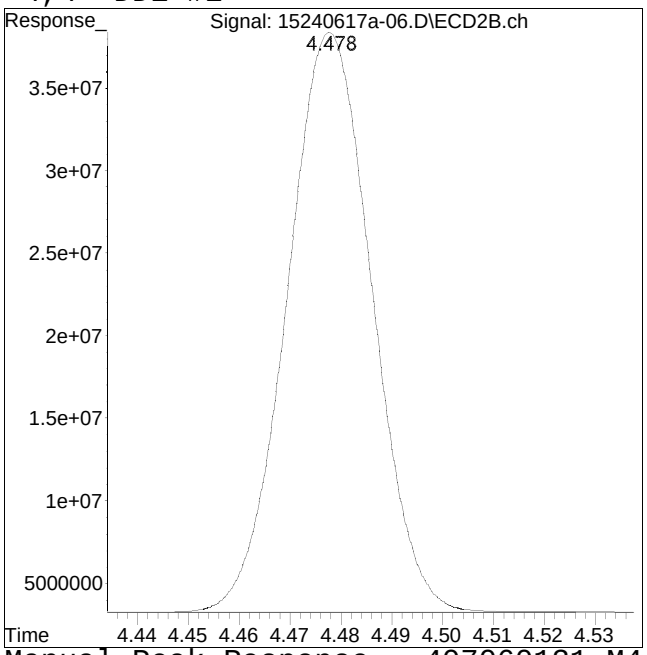
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #53: 4,4'-DDE #2



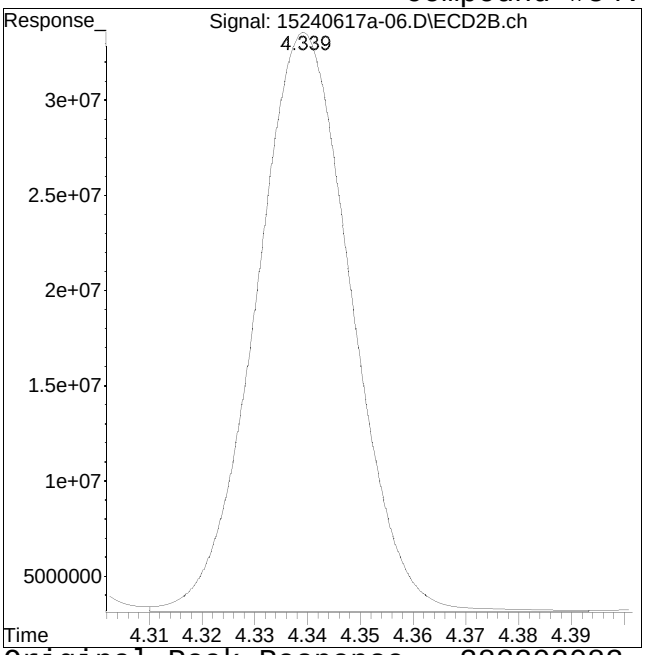


Original Peak Response = 415374930 Manual Peak Response = 407060131 M4
M4 = Poor automated baseline construction.

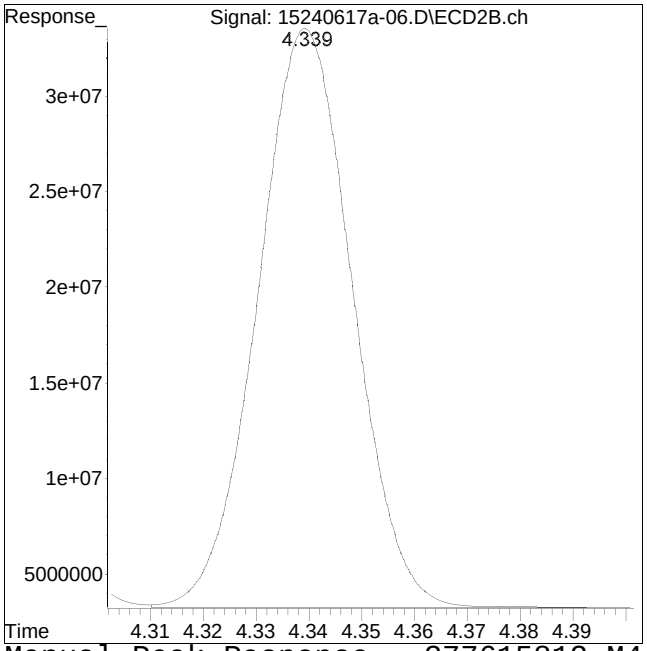
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #54: Endosulfan I #2



Original Peak Response = 383202083

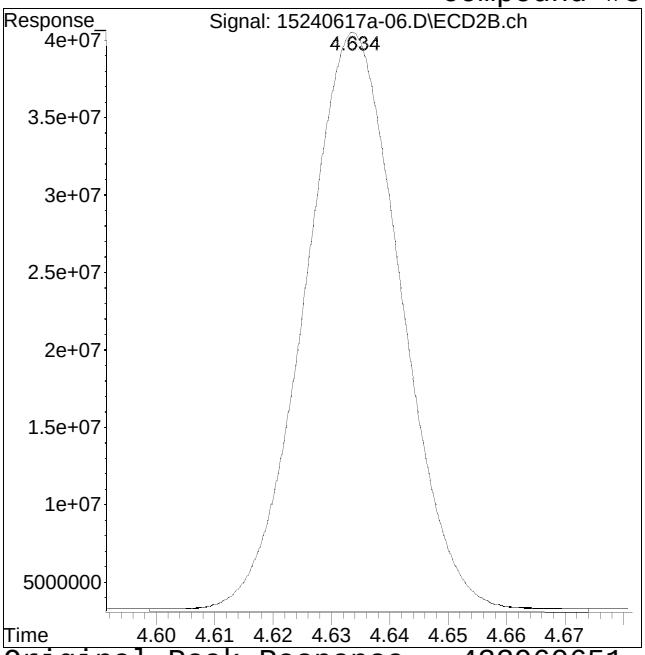


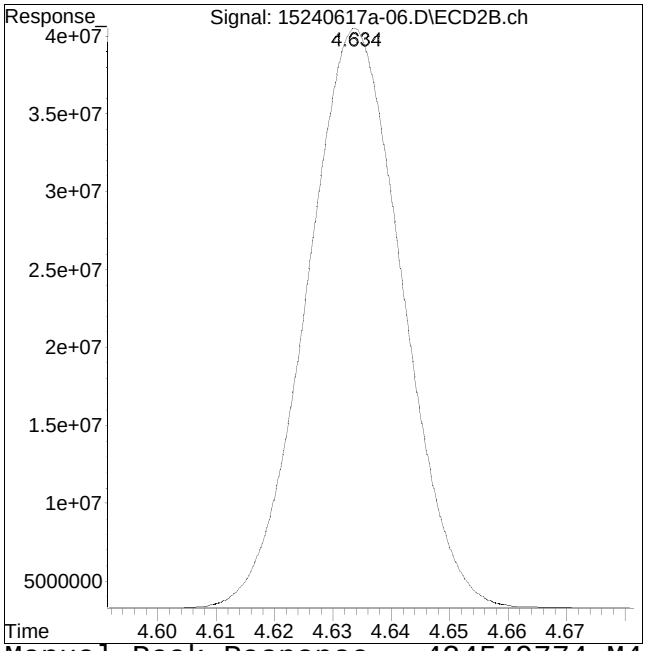
Manual Peak Response = 377615812 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #55: Dieldrin #2



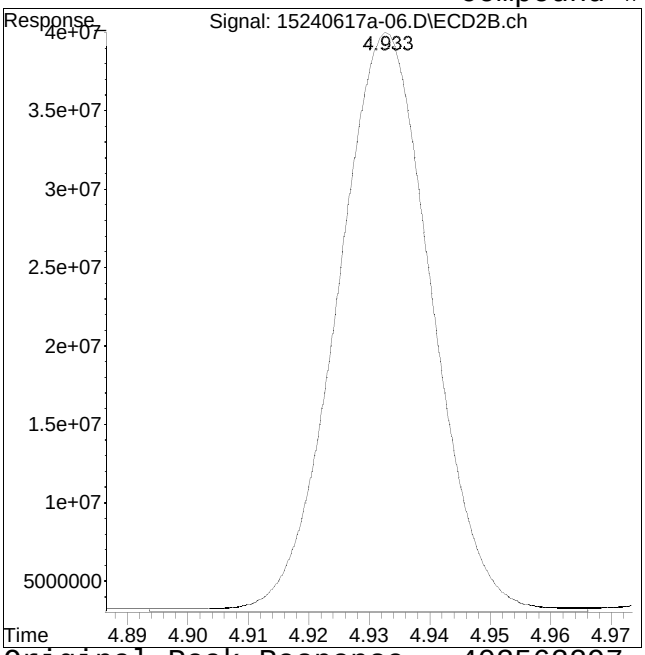


Original Peak Response = 433960651 Manual Peak Response = 424549774 M4
M4 = Poor automated baseline construction.

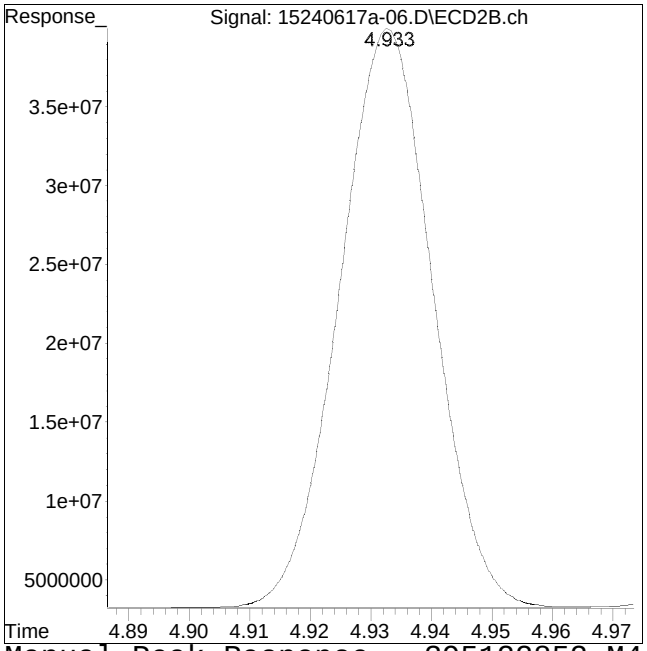
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #56: Endrin #2



Original Peak Response = 403562297

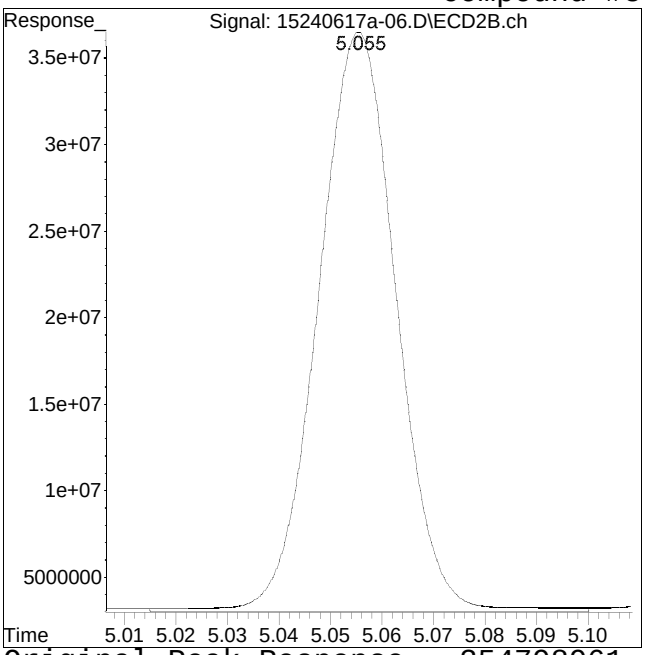


Manual Peak Response = 395122852 M4
M4 = Poor automated baseline construction.

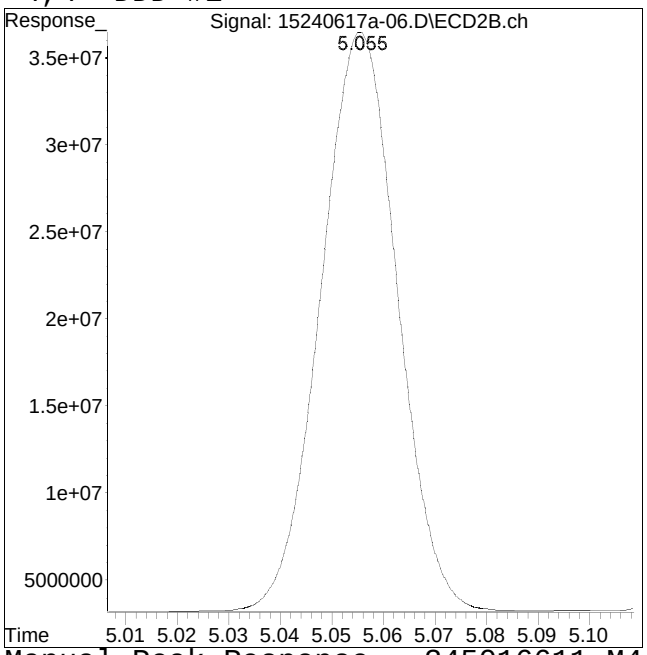
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 354798961



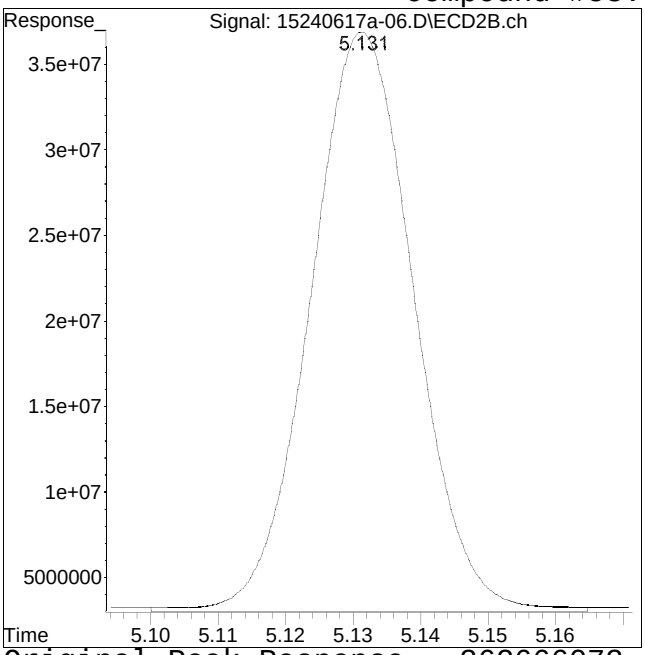
Manual Peak Response = 345016611 M4

M4 = Poor automated baseline construction.

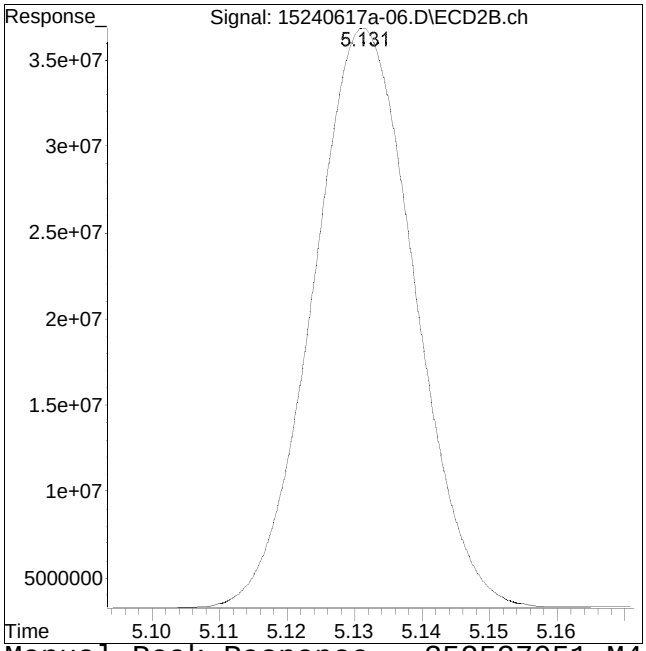
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #58: Endosulfan II #2



Original Peak Response = 362666073

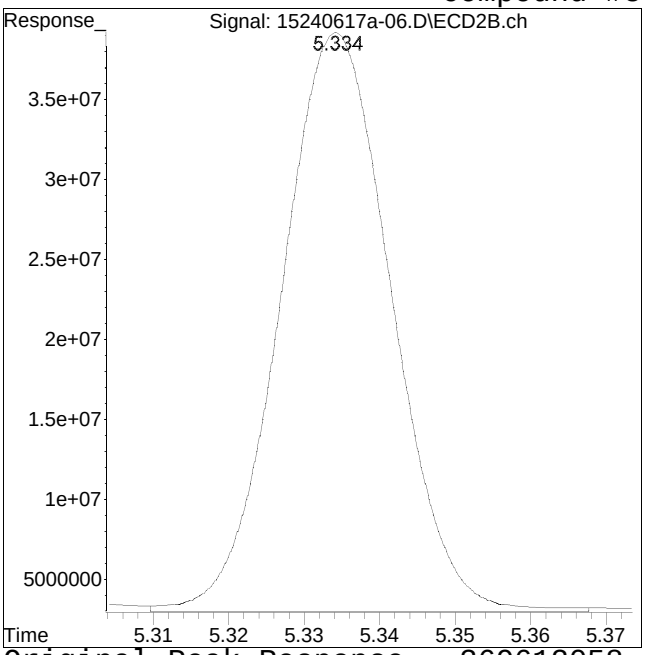


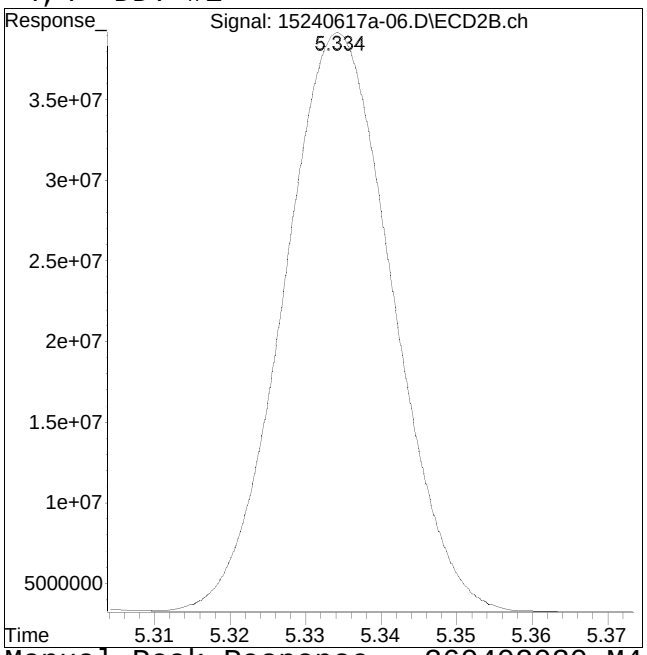
Manual Peak Response = 352537051 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #59: 4,4'-DDT #2



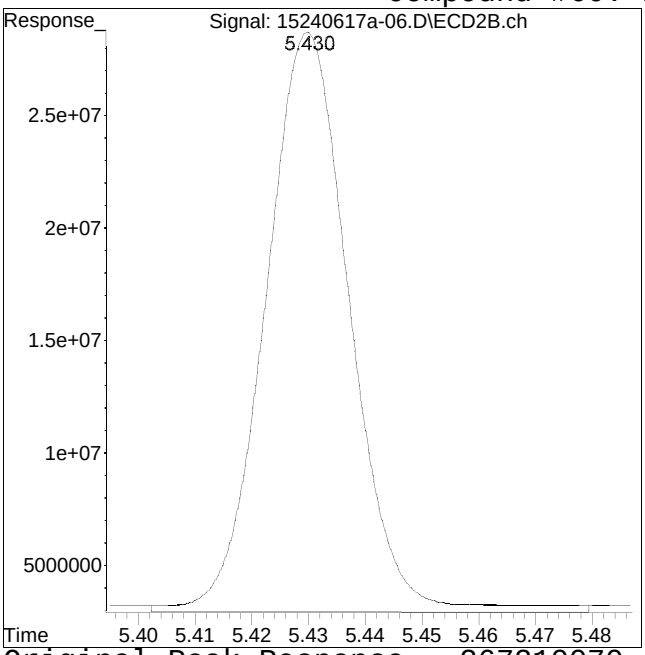


Original Peak Response = 369612058 Manual Peak Response = 360402030 M4
M4 = Poor automated baseline construction.

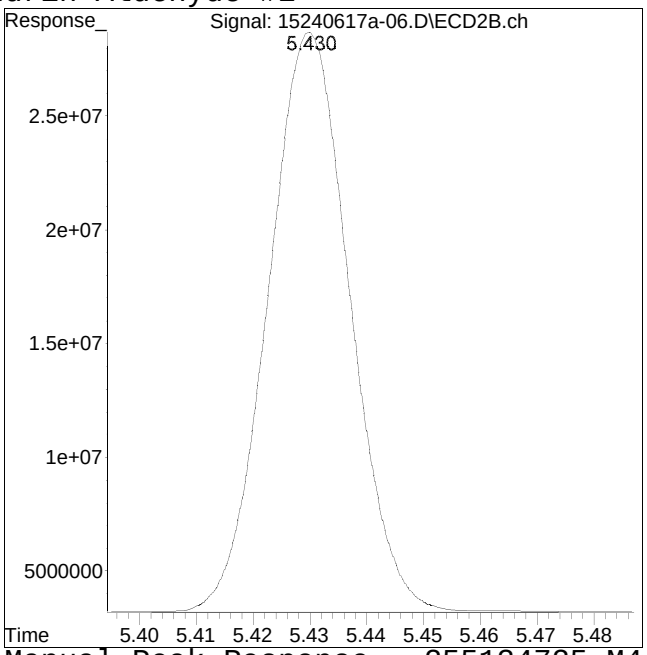
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 267210070



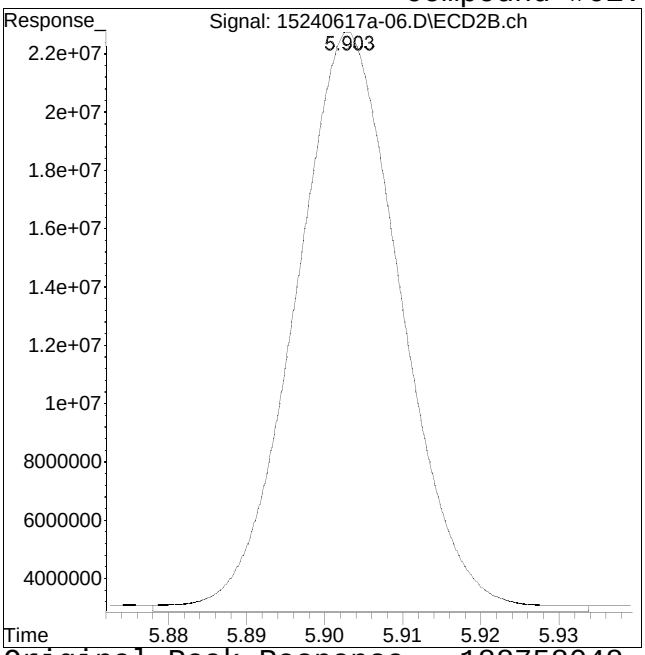
Manual Peak Response = 255134725 M4

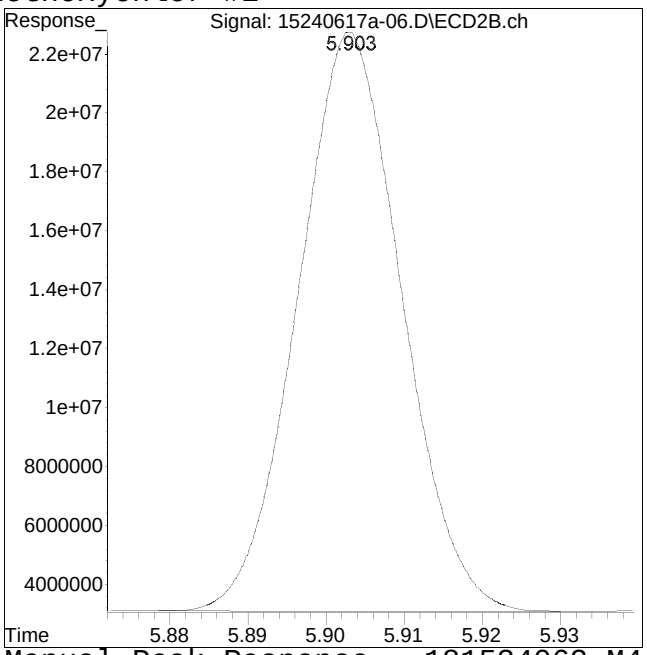
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #61: Methoxychlor #2



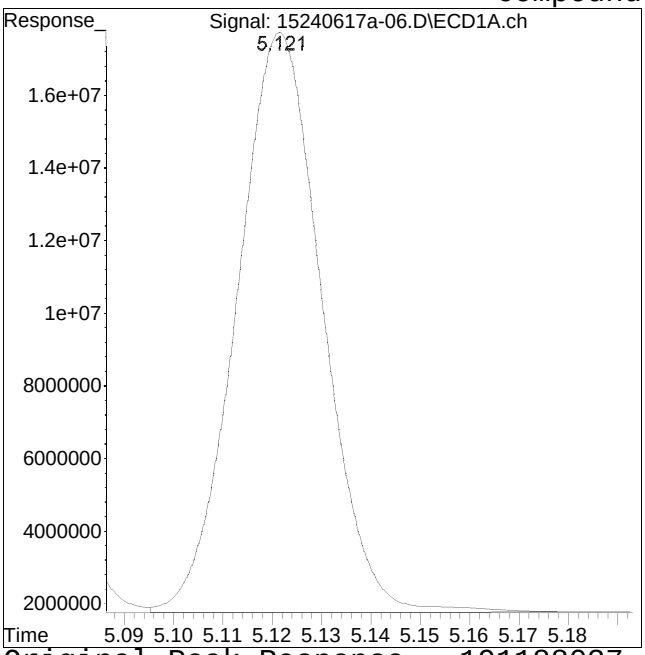


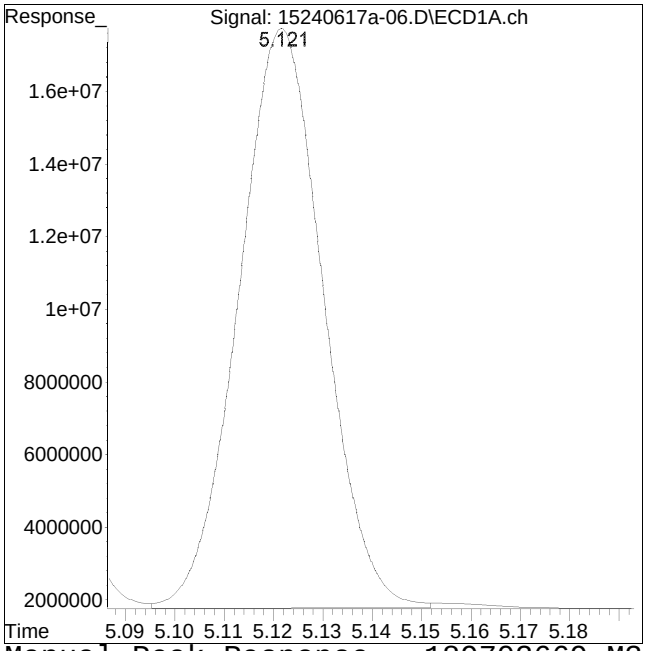
Original Peak Response = 188758048 Manual Peak Response = 181534062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #24: Mirex



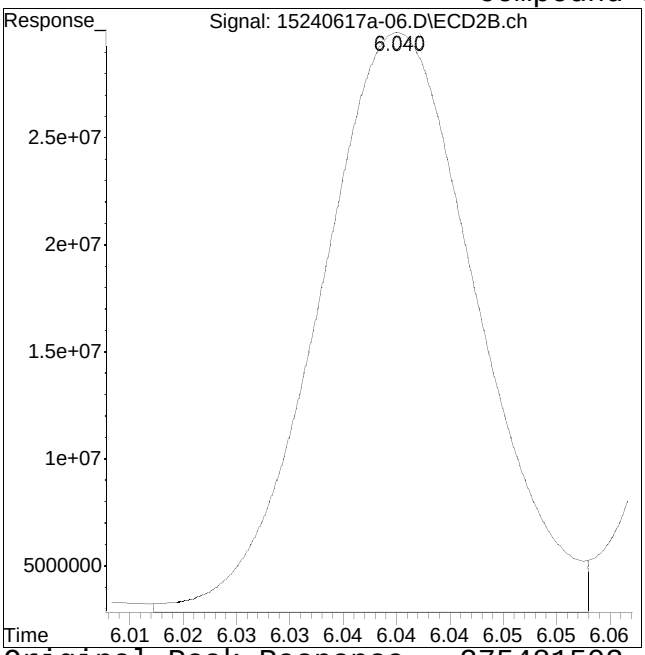


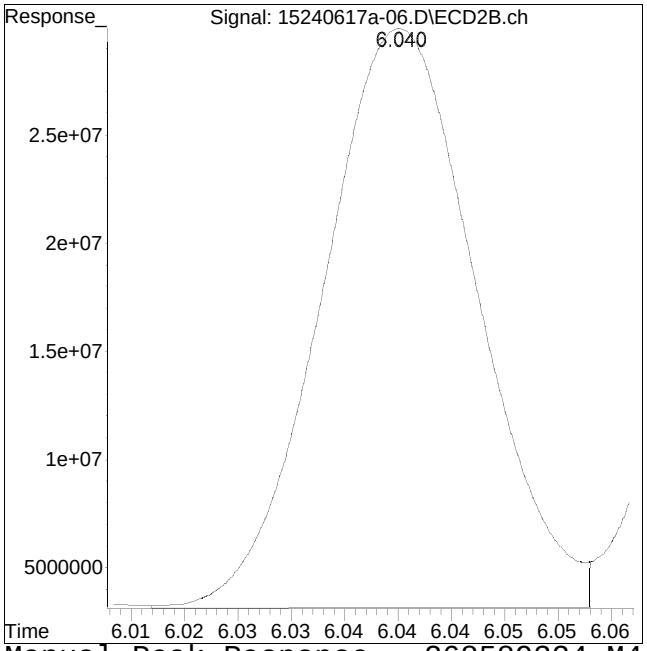
Original Peak Response = 191188037 Manual Peak Response = 189703669 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #62: Mirex #2



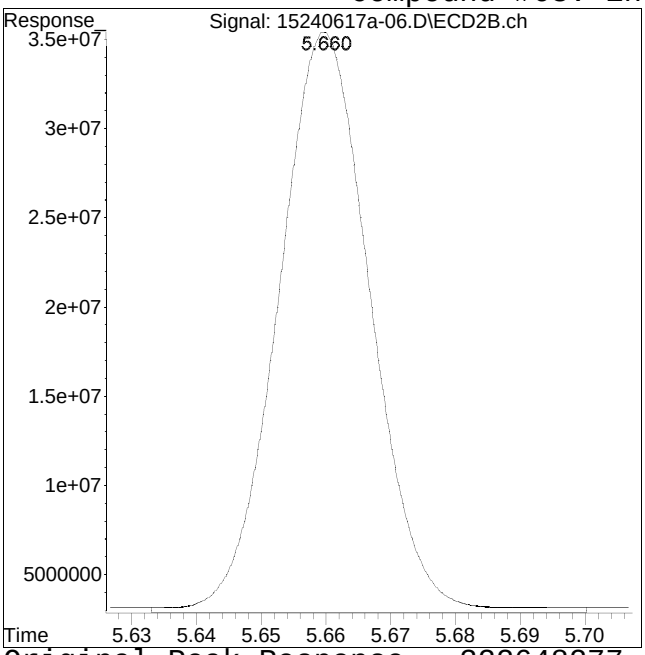


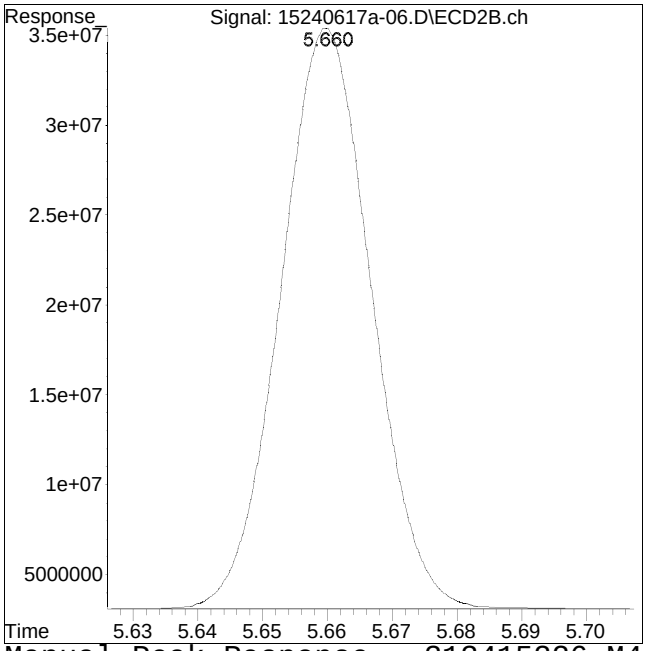
Original Peak Response = 275481503 Manual Peak Response = 268589324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #63: Endosulfan Sulfate #2



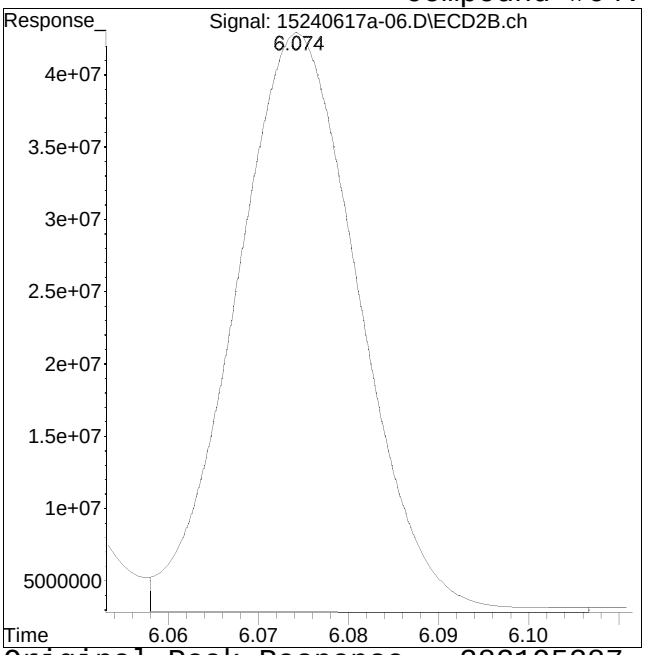


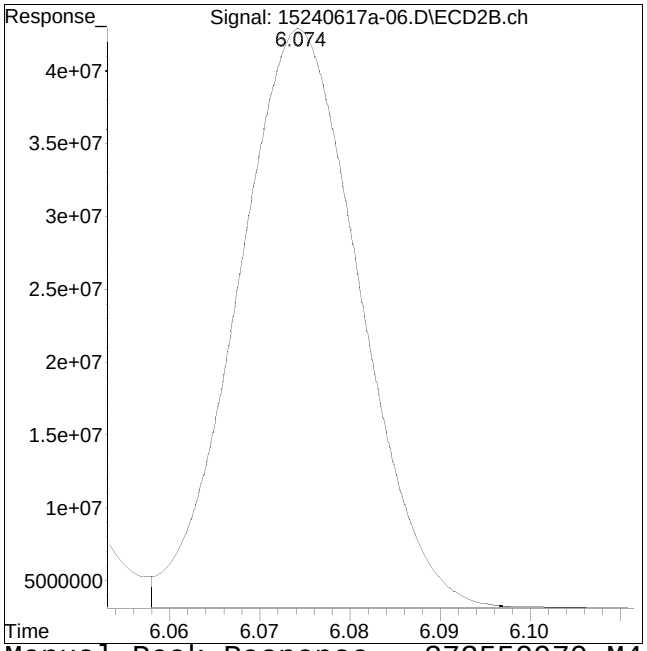
Original Peak Response = 322648277 Manual Peak Response = 313415226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-06.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 7:13 am Instrument : Pest 15
Sample : wg1935124-1,42,, pest11595Quant Date : 6/17/2024 7:31 am

Compound #64: Endrin Ketone #2





Original Peak Response = 382195387 Manual Peak Response = 373550970 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample   : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	117	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.998	-1.1	132	0.00
3		Hexachlorobenzene	*	50.000	57.611	-15.2	133	0.00
4		alpha-BHC		1.295	1.412	-9.0	133	0.00
5		gamma-BHC (lindane)		1.214	1.267	-4.4	130	0.00
6		beta-BHC	*	50.000	56.552	-13.1	131	0.00
7		delta-BHC		1.217	1.247	-2.5	127	0.00
8		Heptachlor		1.207	1.253	-3.8	133	0.00
9		Aldrin		1.083	1.177	-8.7	135	0.00
10		Alachlor		0.190	0.180	5.3	123	0.00
11		Chlorpyrifos	*	50.000	63.010	-26.0#	139	0.00
12		Heptachlor Epoxide		1.041	1.013	2.7	125	0.00
13		gamma-Chlordane (trans)		0.977	1.122	-14.8	151#	0.00
14		alpha-Chlordane (cis)		1.075	1.091	-1.5	130	0.00
15		4,4'-DDE		1.019	1.092	-7.2	134	0.00
16		Endosulfan I		0.985	1.000	-1.5	129	0.00
17		Dieldrin		1.023	1.161	-13.5	142	0.00
18		Endrin		1.058	1.102	-4.2	131	0.00
19		4,4'-DDD		0.837	0.939	-12.2	142	0.00
20		Endosulfan II		0.925	0.991	-7.1	136	0.00
21		4,4'-DDT		0.915	0.954	-4.3	128	0.00
22		Endrin Aldehyde	*	50.000	52.727	-5.5	125	0.00
23		Methoxychlor	*	50.000	63.217	-26.4#	135	0.00
24		Mirex	*	50.000	59.975	-20.0	133	0.00
25		Endosulfan Sulfate		0.912	0.969	-6.2	137	0.00
26		Endrin Ketone		1.006	1.095	-8.8	138	0.00
27	s	Decachlorobiphenyl	*	50.000	30.798	38.4#	71	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample   : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	132	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	1.057	-6.7	154#	0.00
3		Hexachlorobenzene	*	50.000	59.960	-19.9	154	0.00
4		alpha-BHC		1.279	1.499	-17.2	156#	0.00
5		gamma-BHC (lindane)		1.209	1.349	-11.6	152#	0.00
6		beta-BHC	*	50.000	57.247	-14.5	149	0.00
7		delta-BHC		1.217	1.294	-6.3	144	0.00
8		Heptachlor		1.197	1.394	-16.5	161#	0.00
9		Aldrin		1.063	1.311	-23.3#	166#	0.00
10		Alachlor		0.189	0.184	2.6	142	0.00
11		Chlorpyrifos	*	50.000	67.051	-34.1#	167	0.00
12		Heptachlor Epoxide		1.035	1.175	-13.5	158#	0.00
13		gamma-Chlordane (trans)		0.947	1.252	-32.2#	187#	0.00
14		alpha-Chlordane (cis)		1.068	1.208	-13.1	161#	0.00
15		4,4'-DDE		0.999	1.217	-21.8#	164#	0.00
16		Endosulfan I		0.989	1.140	-15.3	161#	0.00
17		Dieldrin		1.000	1.279	-27.9#	174#	0.00
18		Endrin		0.979	1.181	-20.6#	160#	0.00
19		4,4'-DDD		0.833	1.006	-20.8#	167#	0.00
20		Endosulfan II		0.916	1.054	-15.1	160#	0.00
21		4,4'-DDT		0.959	1.125	-17.3	162#	0.00
22		Endrin Aldehyde	*	50.000	55.364	-10.7	150	0.00
23		Methoxychlor	*	50.000	67.573	-35.1#	164	0.00
24		Mirex	*	50.000	64.968	-29.9#	162	0.00
25		Endosulfan Sulfate		0.881	1.015	-15.2	164#	0.00
26		Endrin Ketone		1.009	1.178	-16.7	163#	0.00
27	s	Decachlorobiphenyl	*	50.000	38.099	23.8#	97	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample   : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.72#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.11#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.48#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.05#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.18#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.72#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-2		0.043	0.000	100.0#	0#	-5.21#
36	l2	toxaphene-3		0.042	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-4		0.041	0.000	100.0#	0#	-5.82#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.78#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.93#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.60#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.78#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.78#
34	l2	toxaphene-1		0.020	0.000	100.0#	0#	-5.63#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.65#
36	l2	toxaphene-3		0.036	0.000	100.0#	0#	-5.98#
37	l2	toxaphene-4		0.034	0.000	100.0#	0#	-6.40#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.720	1.776	451.9E6	223.1E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	2.157	2.324	902.1E6	471.6E6	50.582M4	53.321M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		101.16%	106.64%
27)	s	Decachlorobi	6.957	7.515	464.0E6	244.6E6	30.798M4	38.099
		Spiked Amount 50.000	Range 30 - 150		Recovery =		61.60%	76.20%
		Target Compounds						
3)		Hexachlorobe	2.401	2.663	1001.4E6	501.4E6	57.611M4	59.960
4)		alpha-BHC	2.514	2.767	1275.9E6	668.7E6	54.508M4	58.583
5)		gamma-BHC (l	2.736	3.058	1145.3E6	601.9E6	52.179M4	55.788M4
6)		beta-BHC	2.801	3.129	516.4E6	268.0E6	56.552M4	57.247M4
7)		delta-BHC	2.936	3.396	1127.4E6	577.2E6	51.248M4	53.143M4
8)		Heptachlor	3.106	3.454	1132.9E6	621.9E6	51.910M4	58.242
9)		Aldrin	3.358	3.770	1063.4E6	585.1E6	54.327M3	61.659
10)		Alachlor	3.496	3.670	162.8E6	81920880	47.354M4	48.558
11)		Chlorpyrifos	3.592	4.022	518.0E6	291.2E6	63.010M4	67.051

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.922	4.385	915.8E6	524.3E6	48.667M4	56.798
13)		gamma-Chlord	4.050	4.604	1013.9E6	558.6E6	57.407M4	66.124
14)		alpha-Chlord	4.187	4.777	986.0E6	538.9E6	50.743M4	56.549
15)		4,4'-DDE	4.292	4.996	987.1E6	543.1E6	53.568M4	60.936
16)		Endosulfan I	4.323	4.839	903.7E6	508.8E6	50.729M4	57.666M4
17)		Dieldrin	4.588	5.150	1049.4E6	570.7E6	56.751M4	63.979M4
18)		Endrin	4.845	5.460	996.0E6	526.9E6	52.068M4	60.316M4
19)		4,4'-DDD	4.966	5.597	849.1E6	449.0E6	56.095M4	60.376M4
20)		Endosulfan I	5.093	5.667	896.0E6	470.1E6	53.571M4	57.513M4
21)		4,4'-DDT	5.265	5.883	862.0E6	501.7E6	52.132M4	58.630M4
22)		Endrin Aldeh	5.519	5.975	659.9E6	347.3E6	52.727M4	55.364M4
23)		Methoxychlor	5.763	6.467	491.5E6	276.3E6	63.217M4	67.573
24)		Mirex	5.812	6.589	746.4E6	398.0E6	59.975M4	64.968M3
25)		Endosulfan S	5.916	6.210	875.7E6	452.7E6	53.136M4	57.551M4
26)		Endrin Keton	6.145	6.629	989.3E6	525.4E6	54.407M4	58.350M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

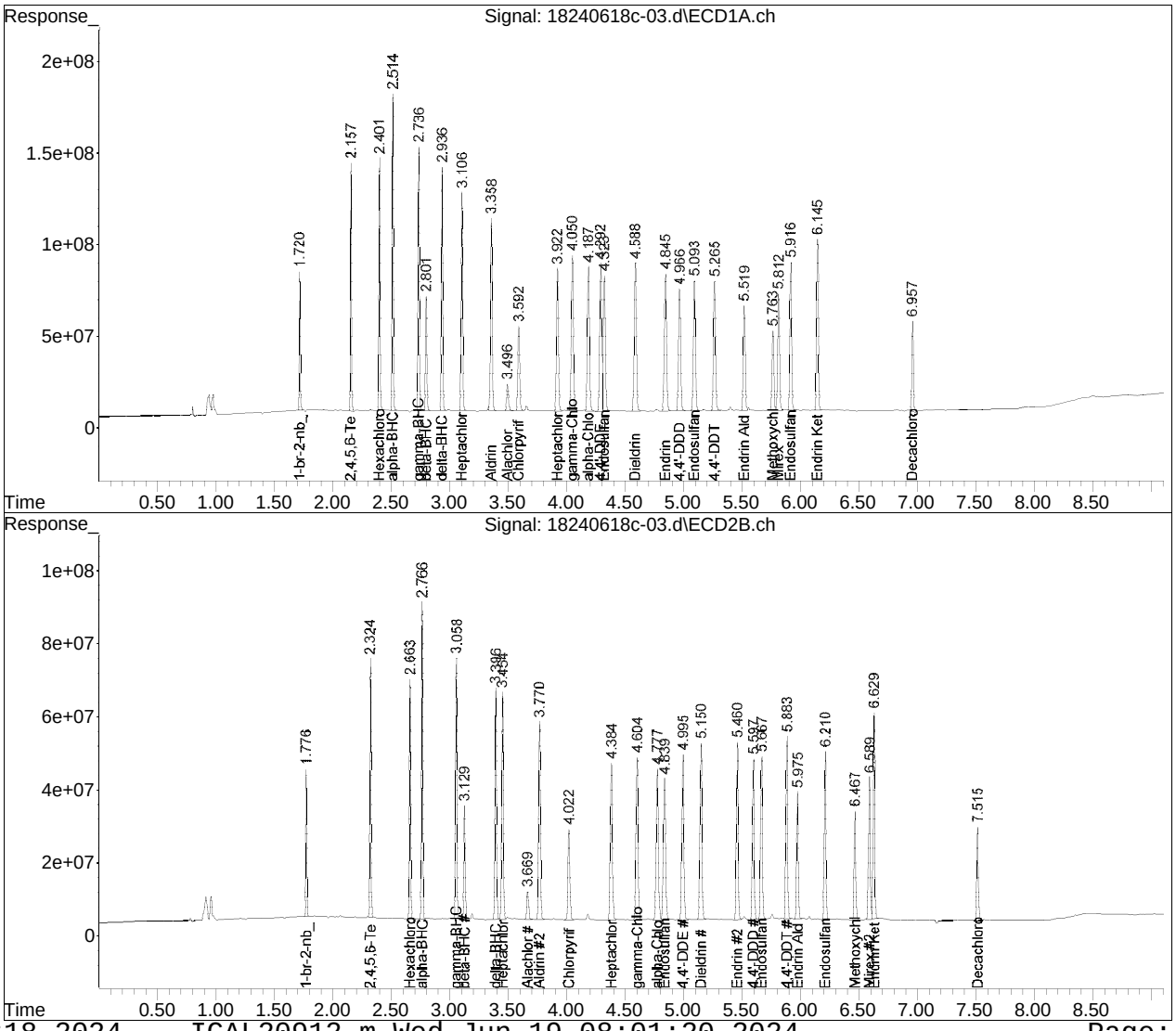
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:17
Operator : PEST18:akm
Sample : wg1935928-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:16:05 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:15:59 2024
Response via : Initial Calibration
Integrator: ChemStation

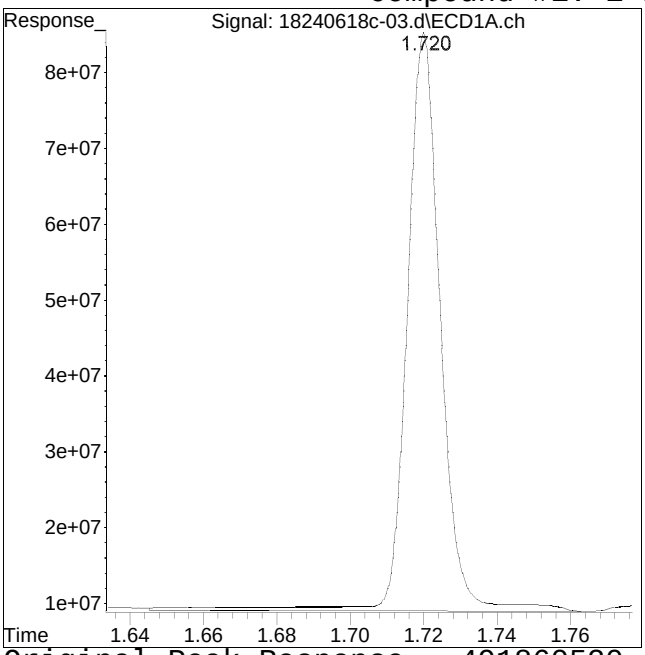
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



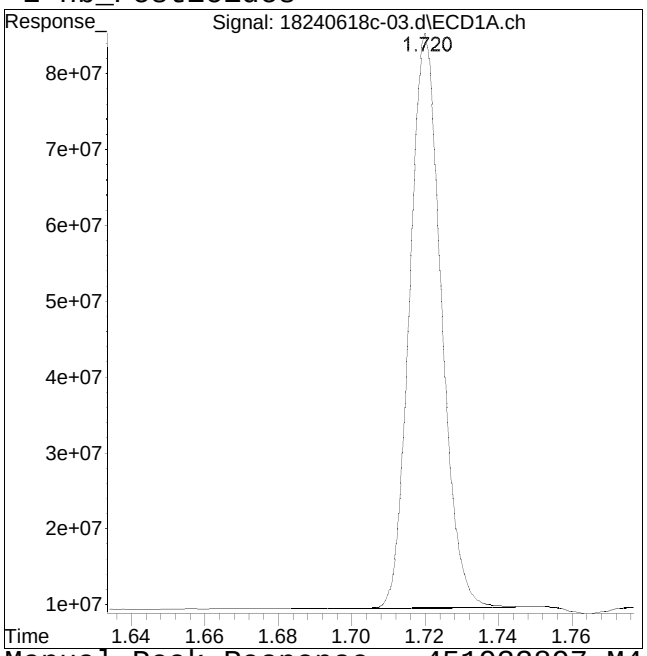
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 491860520



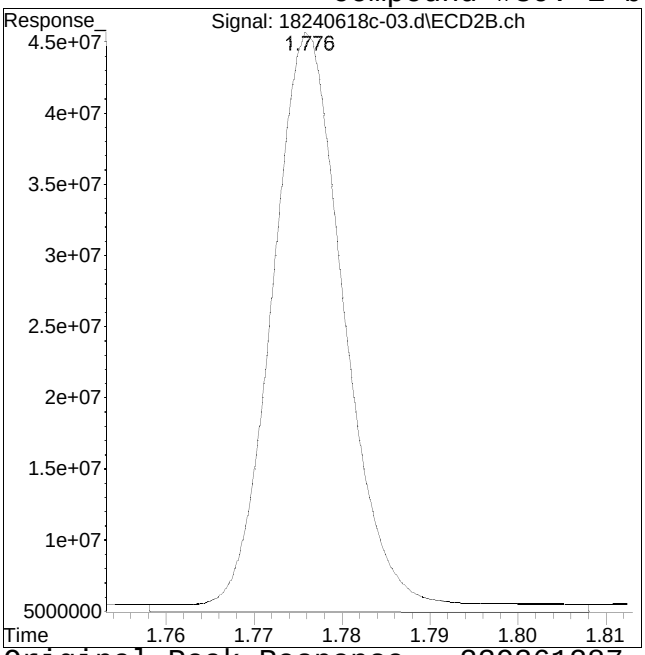
Manual Peak Response = 451933897 M4

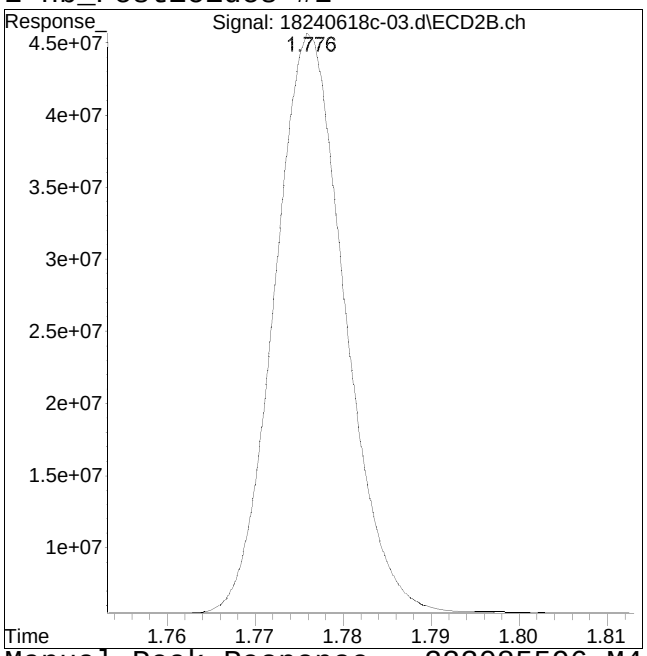
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #39: 1-br-2-nb_Pesticides #2



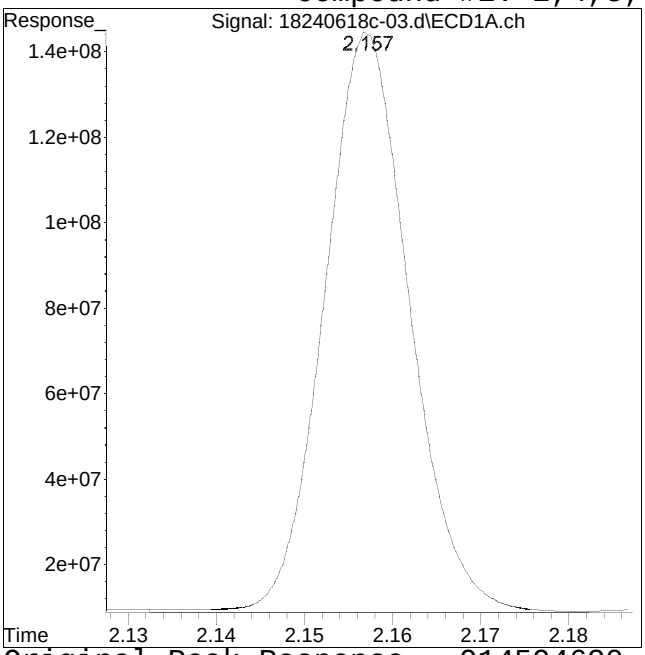


Original Peak Response = 239361287 Manual Peak Response = 223085596 M4
M4 = Poor automated baseline construction.

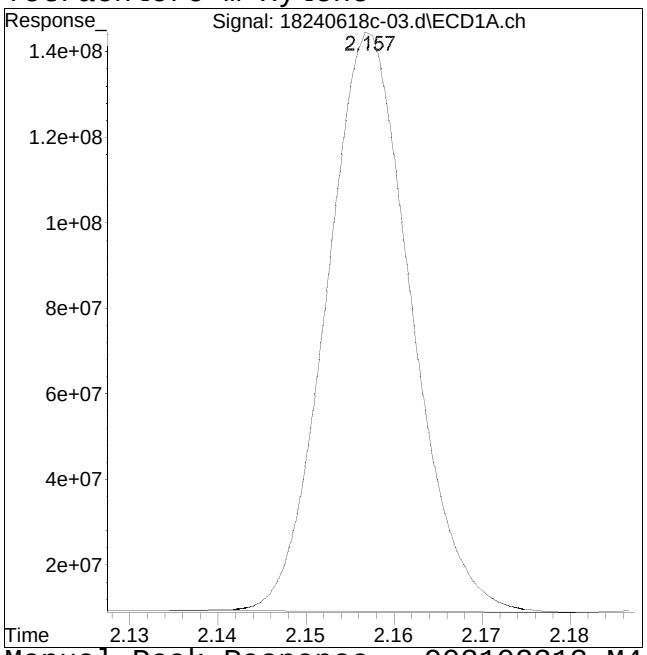
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 914594620



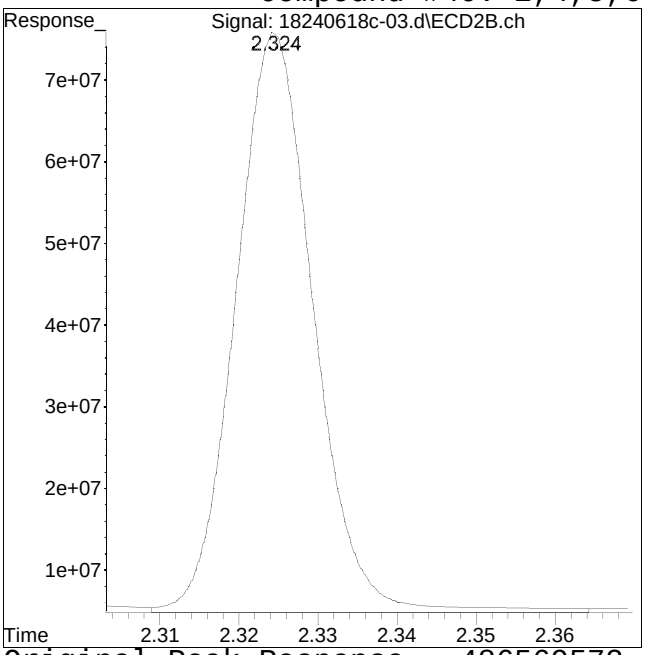
Manual Peak Response = 902102313 M4

M4 = Poor automated baseline construction.

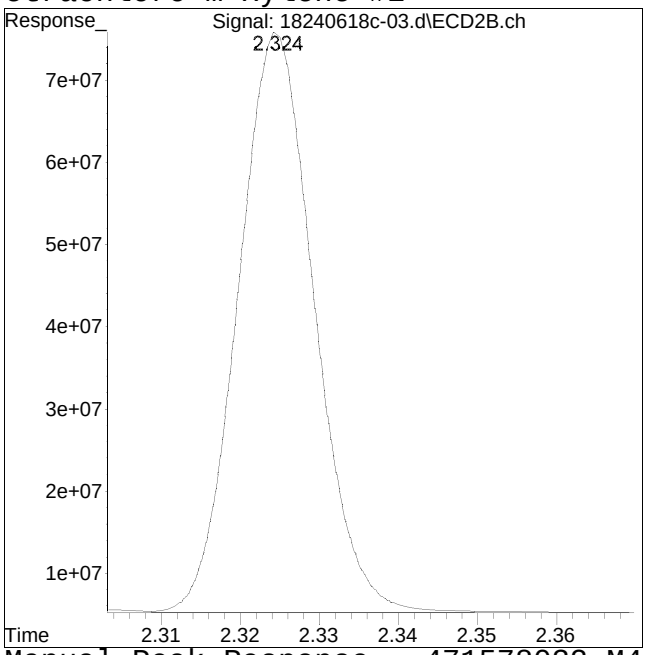
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 486569572



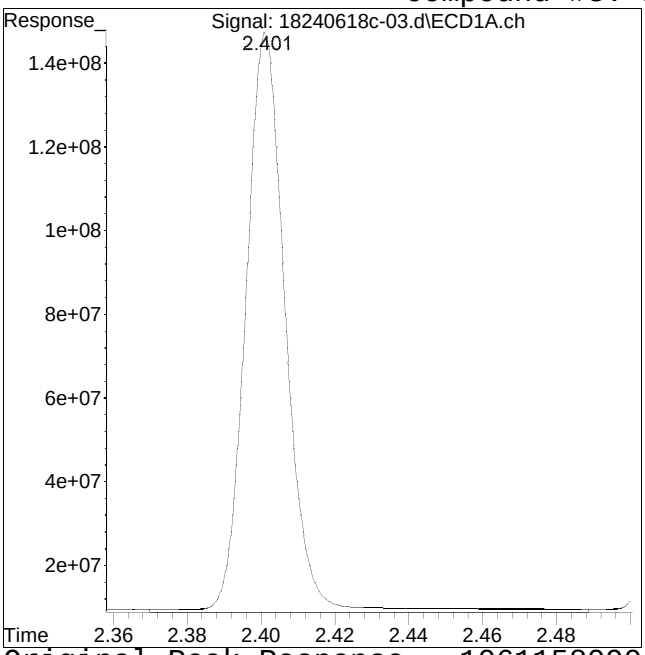
Manual Peak Response = 471578032 M4

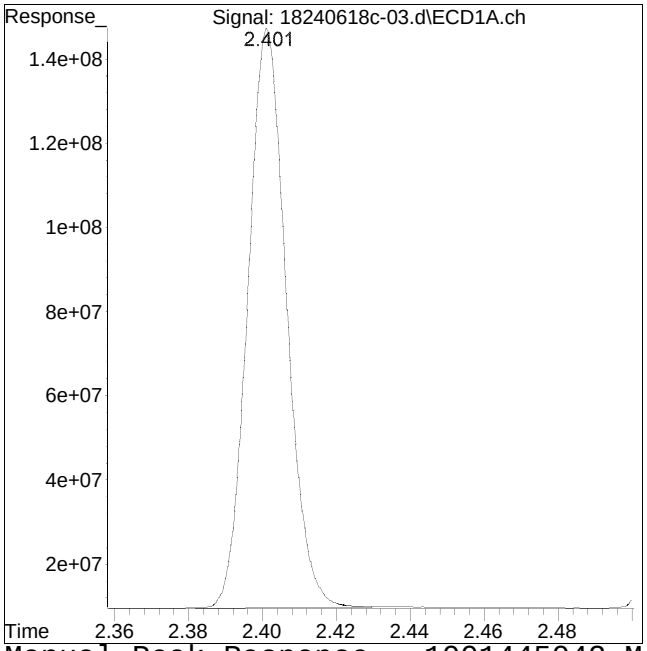
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #3: Hexachlorobenzene



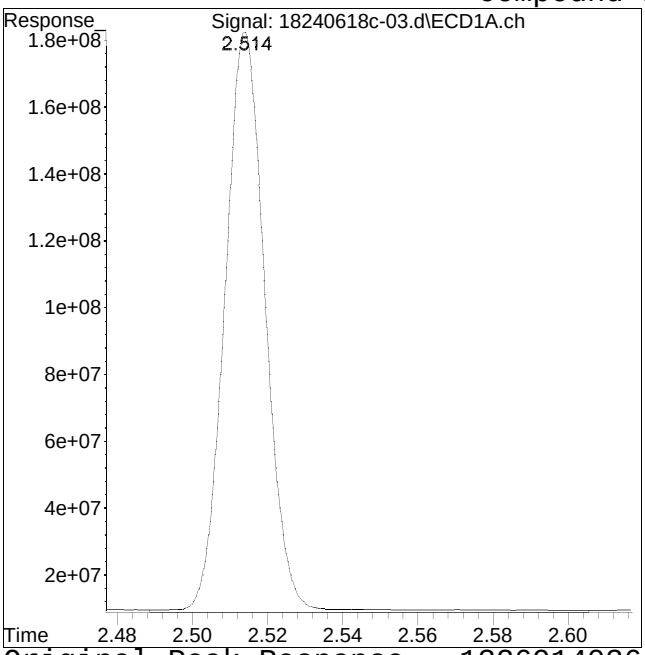


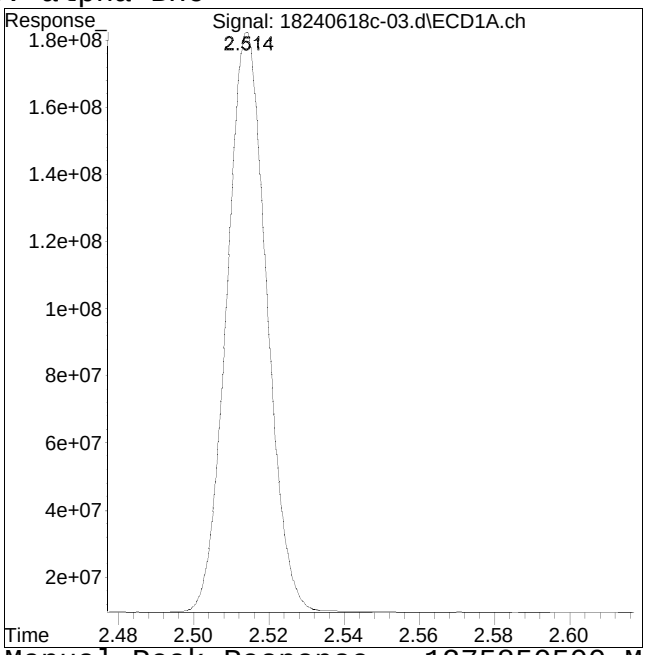
Original Peak Response = 1061158090 Manual Peak Response = 1001445042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #4: alpha-BHC



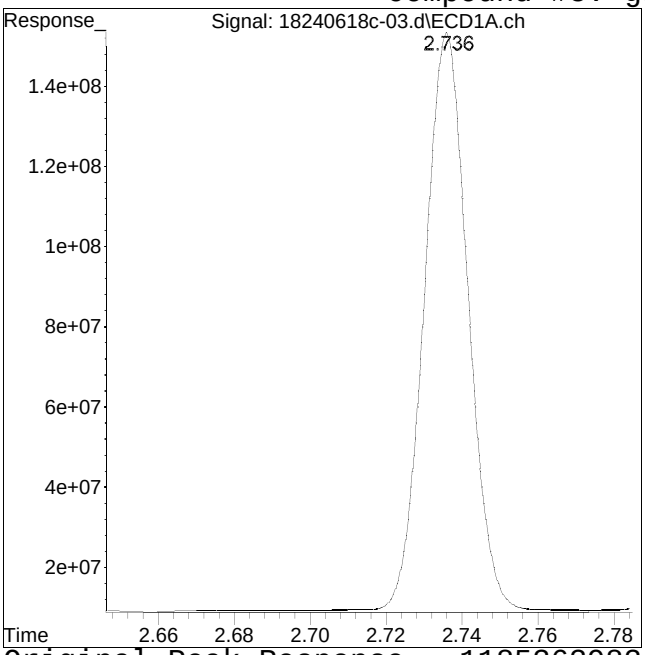


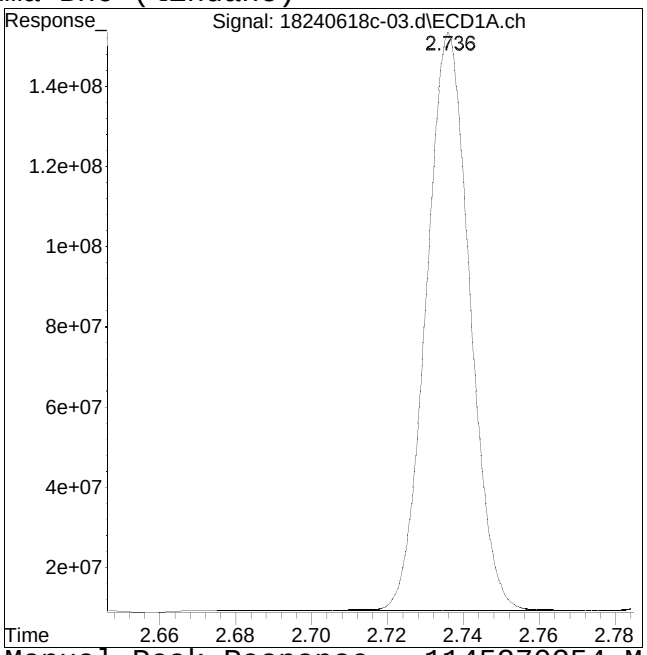
Original Peak Response = 1326914036 Manual Peak Response = 1275850500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #5: gamma-BHC (lindane)



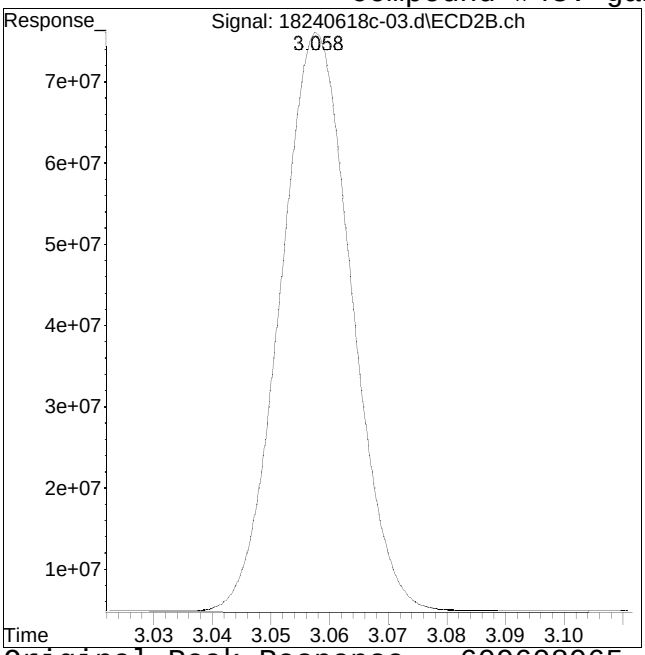


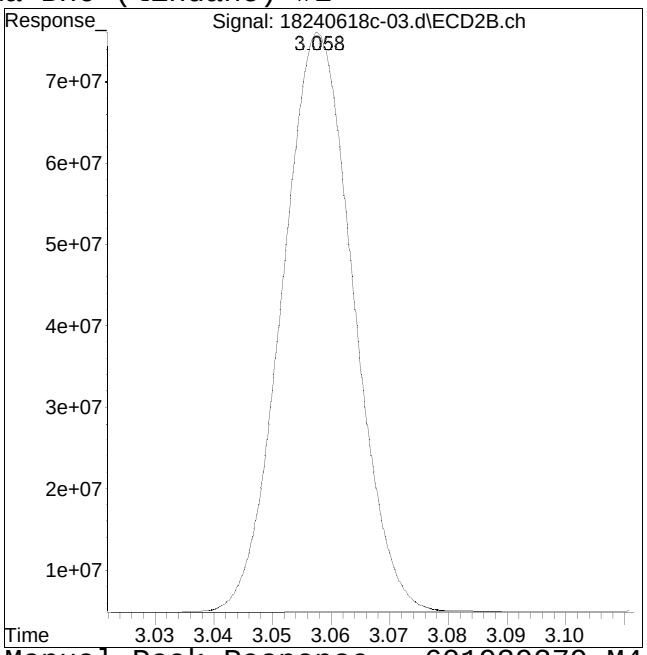
Original Peak Response = 1185363983 Manual Peak Response = 1145270254 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #43: gamma-BHC (lindane) #2



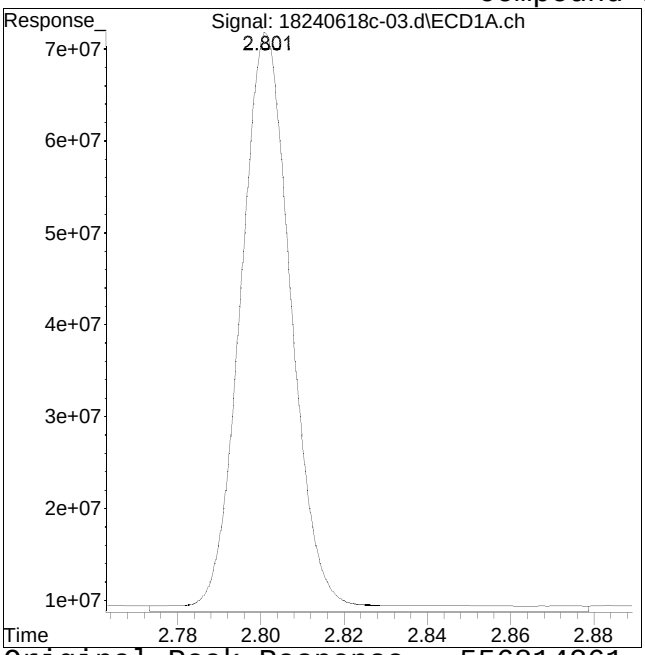


Original Peak Response = 609608965 Manual Peak Response = 601939279 M4
M4 = Poor automated baseline construction.

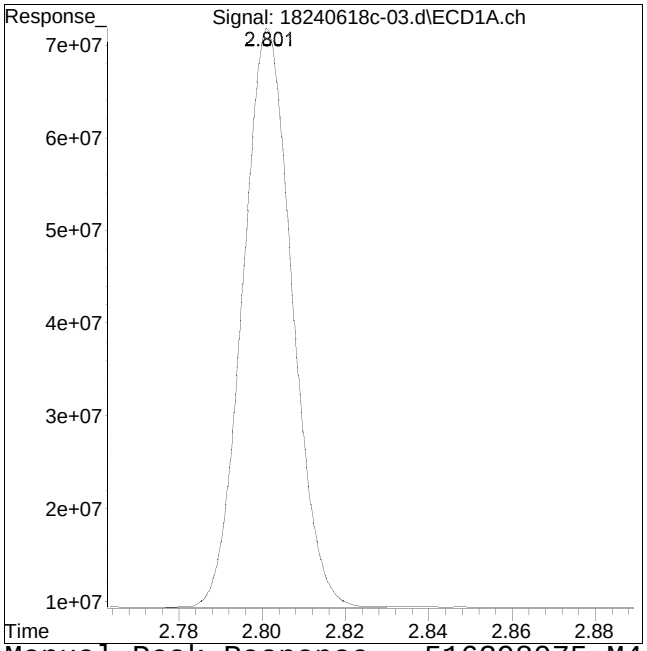
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #6: beta-BHC



Original Peak Response = 556814261



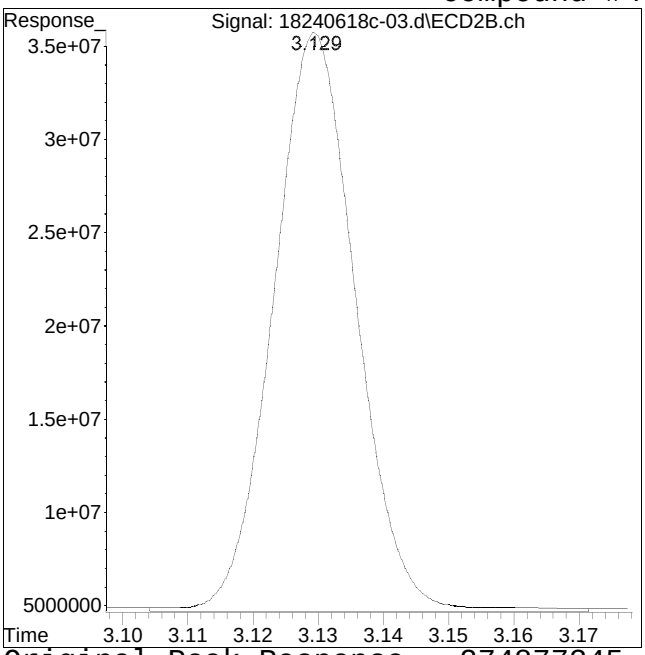
Manual Peak Response = 516398075 M4

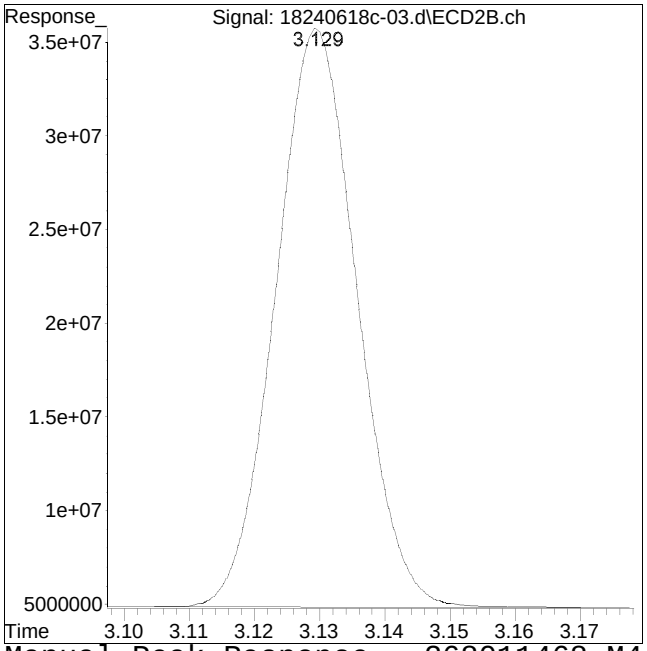
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #44: beta-BHC #2



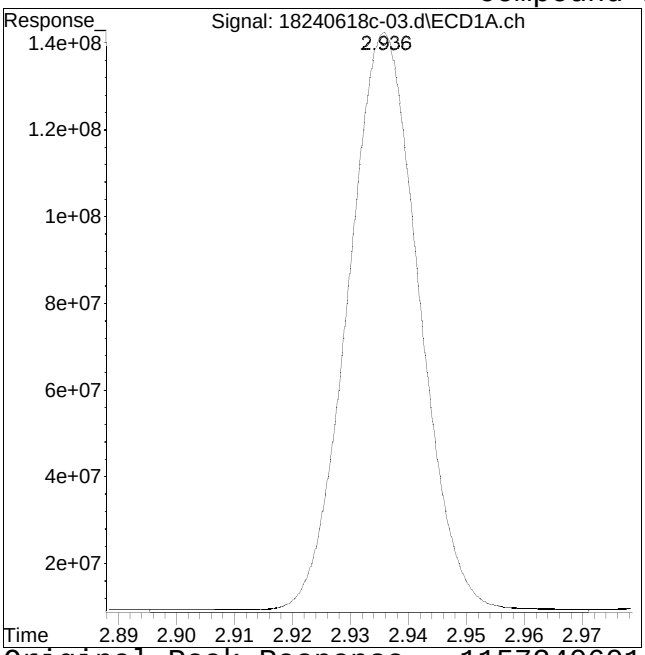


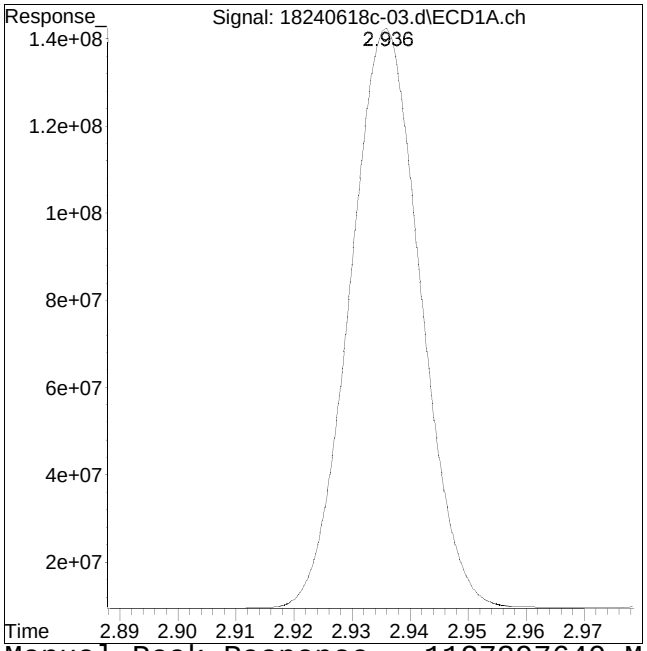
Original Peak Response = 274877345 Manual Peak Response = 268011468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #7: delta-BHC



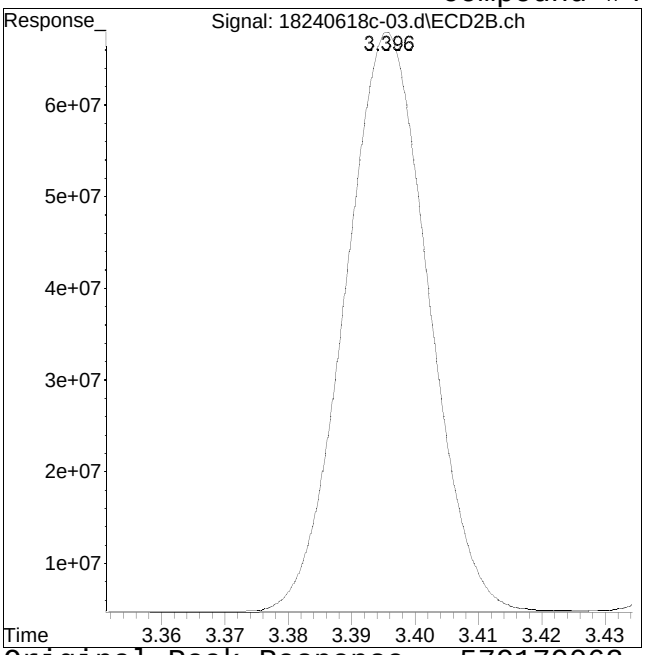


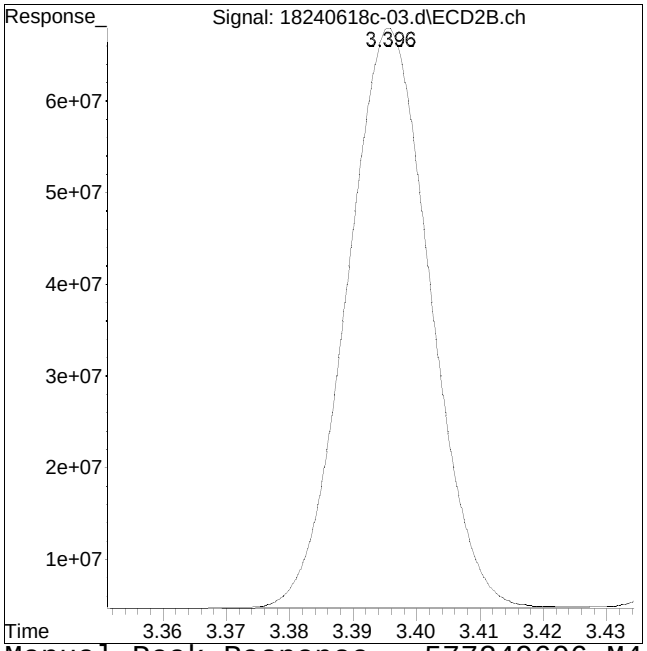
Original Peak Response = 1157240601 Manual Peak Response = 1127397640 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #45: delta-BHC #2



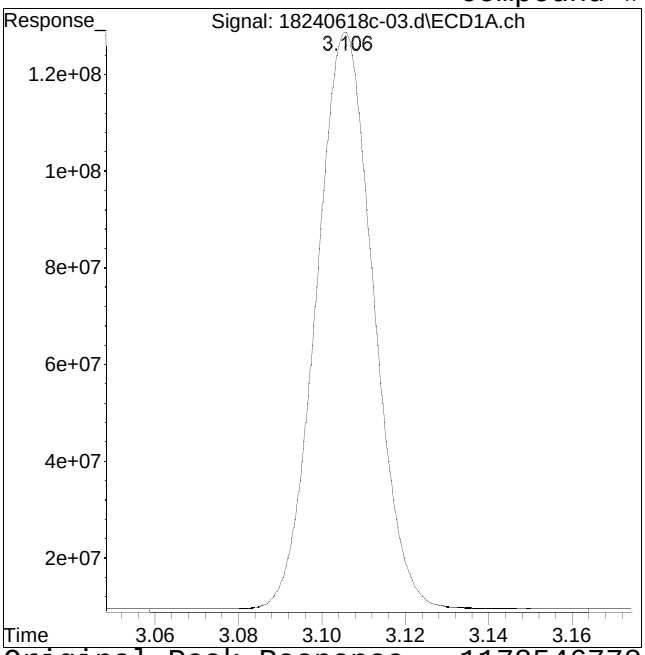


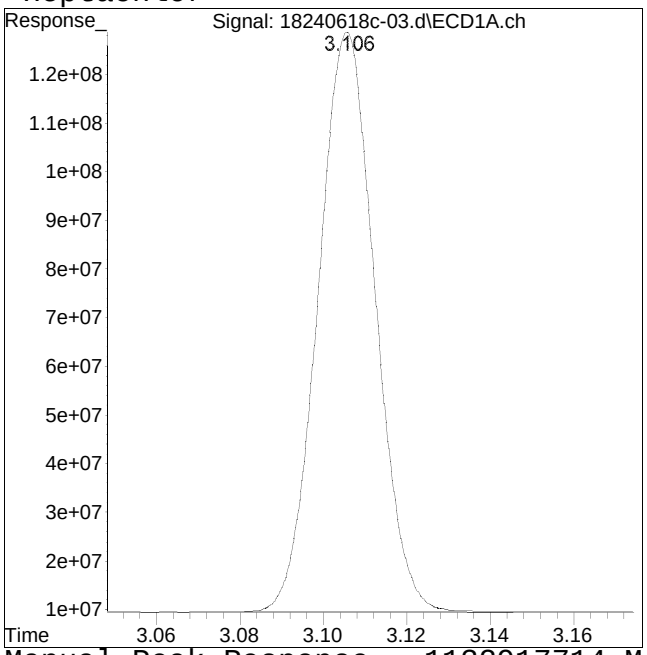
Original Peak Response = 579179062 Manual Peak Response = 577249606 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #8: Heptachlor



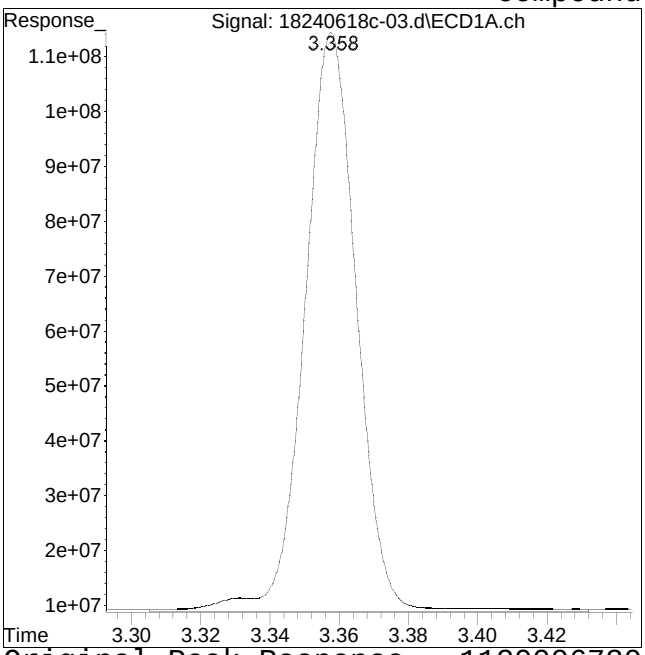


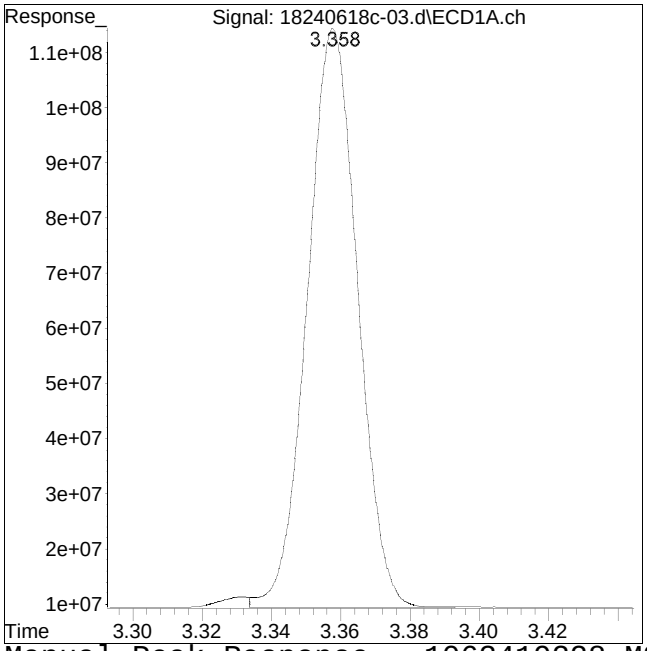
Original Peak Response = 1178546778 Manual Peak Response = 1132917714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #9: Aldrin



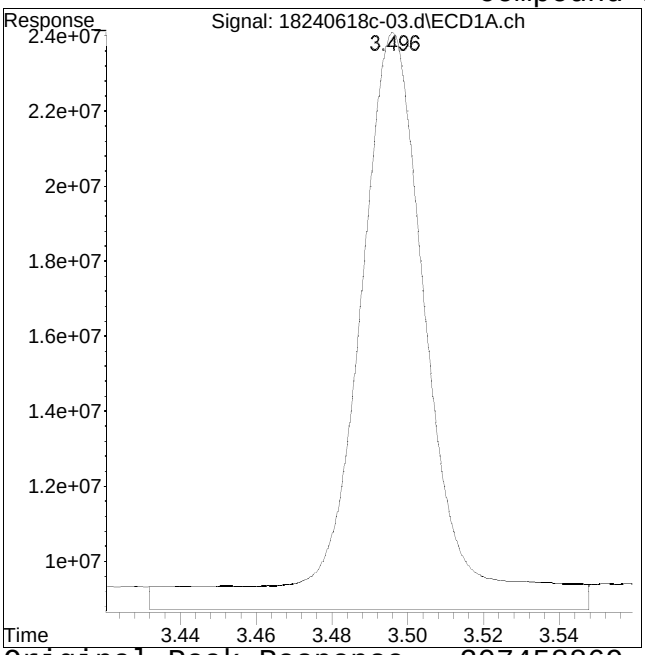


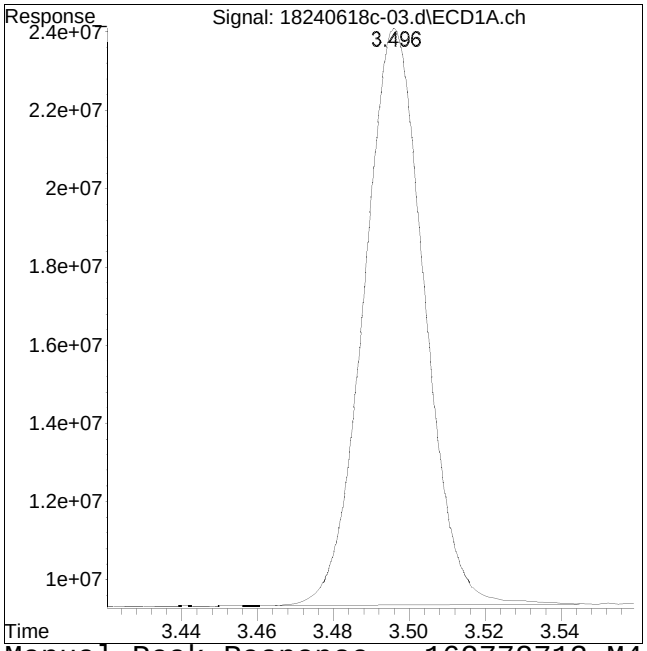
Original Peak Response = 1120006730 Manual Peak Response = 1063419228 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #10: Alachlor



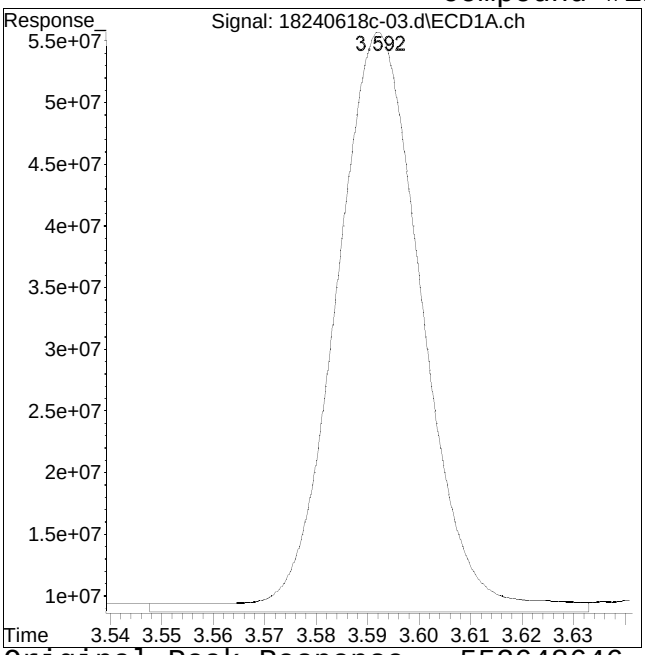


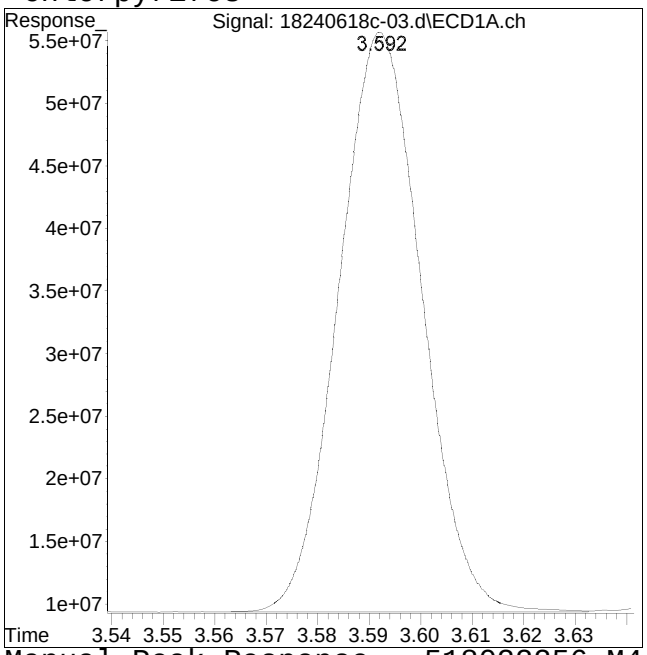
Original Peak Response = 207458869 Manual Peak Response = 162772713 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #11: Chlorpyrifos



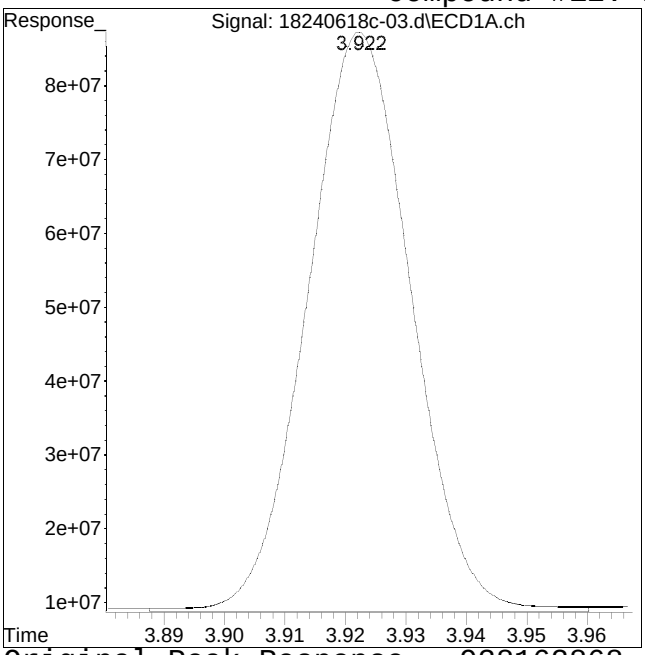


Original Peak Response = 552648646 Manual Peak Response = 518022256 M4
M4 = Poor automated baseline construction.

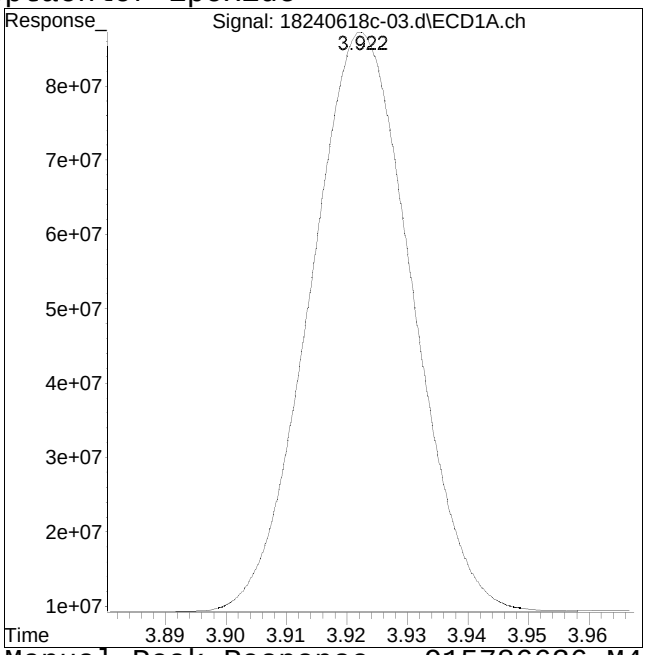
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 938162868



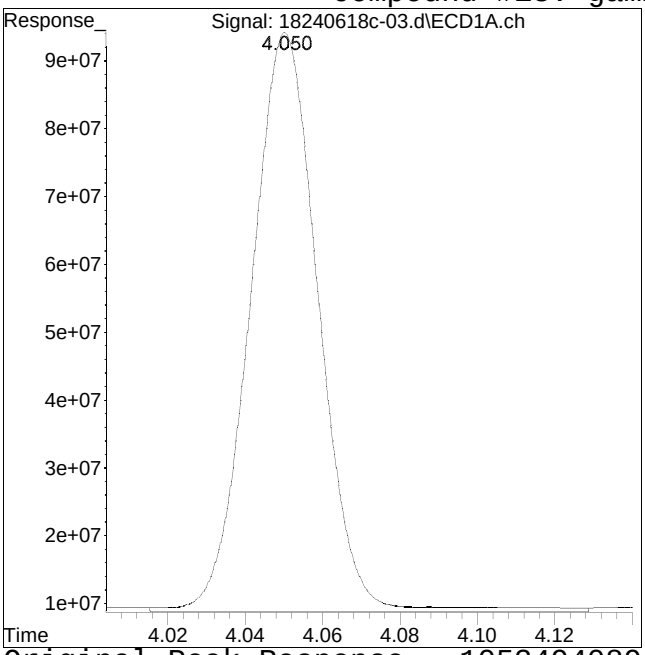
Manual Peak Response = 915786636 M4

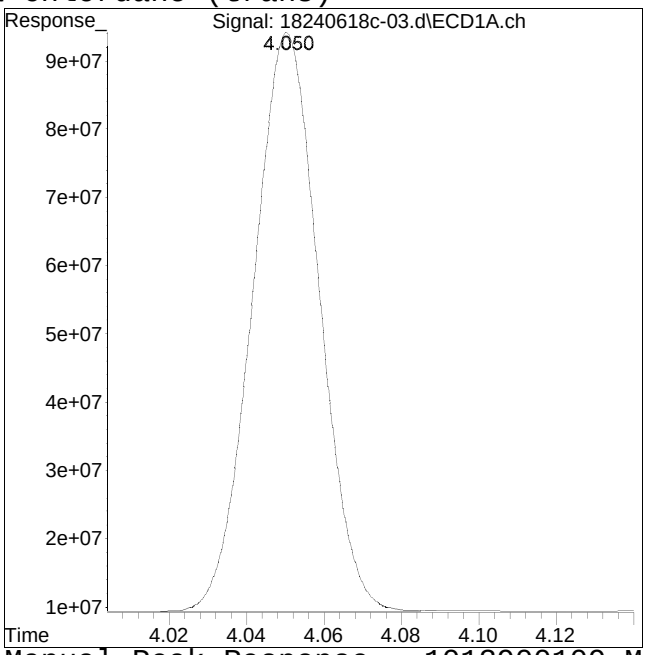
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #13: gamma-Chlordane (trans)



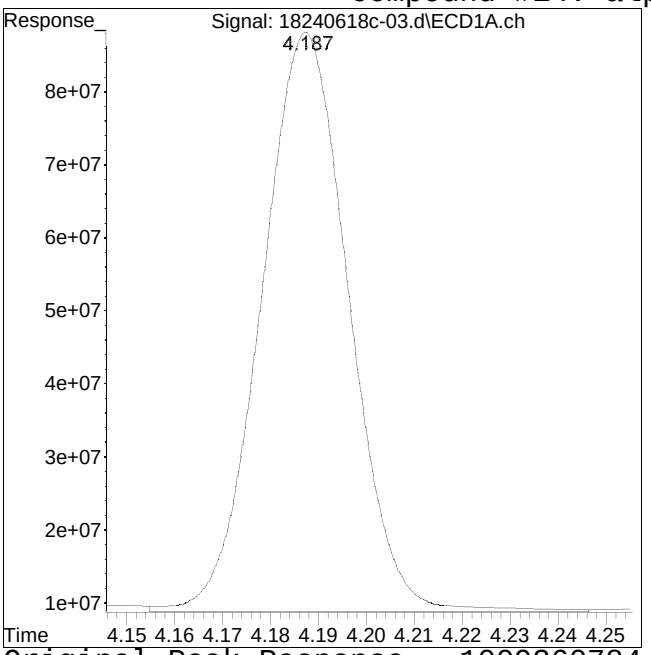


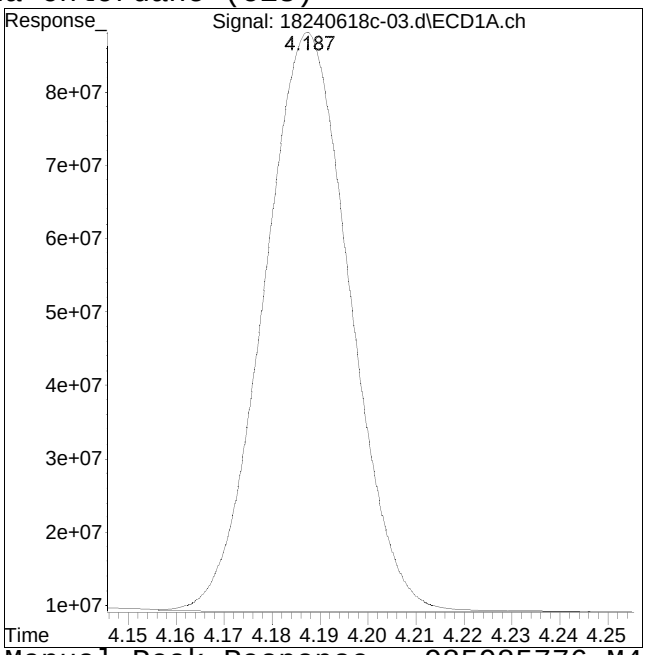
Original Peak Response = 1053494089 Manual Peak Response = 1013900109 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #14: alpha-Chlordane (cis)



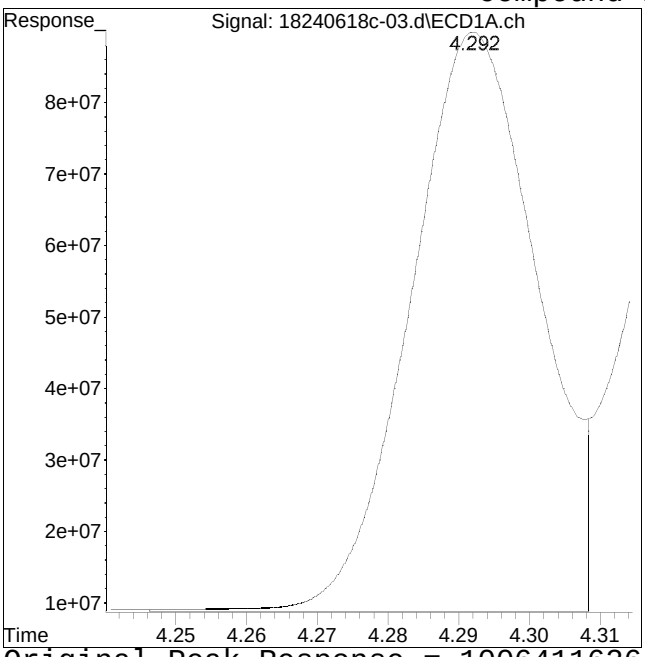


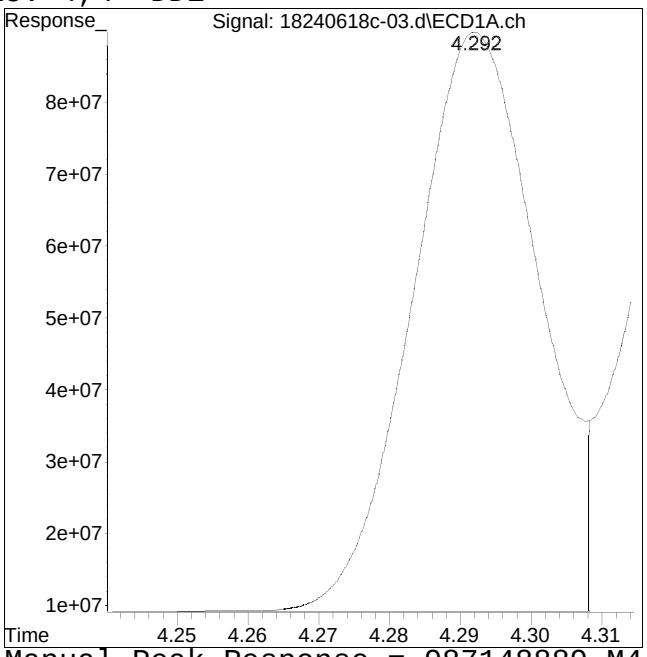
Original Peak Response = 1009260784 Manual Peak Response = 985985776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #15: 4,4'-DDE



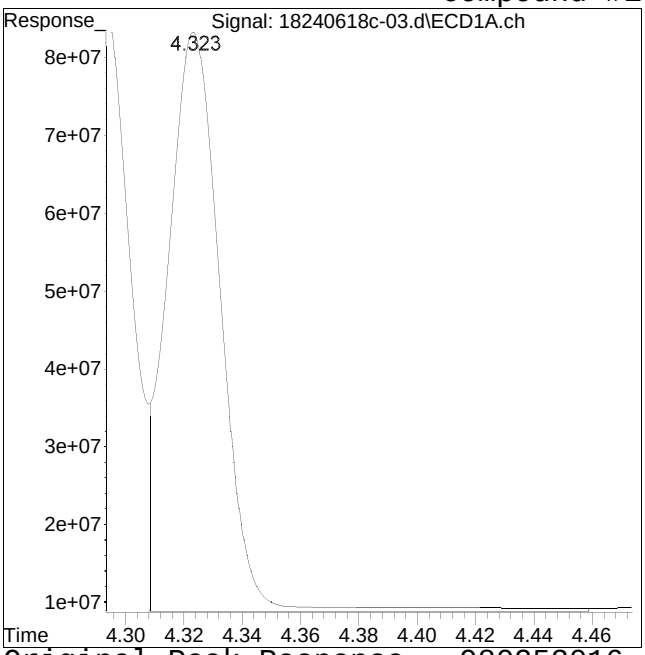


Original Peak Response = 1006411626 Manual Peak Response = 987148889 M4
M4 = Poor automated baseline construction.

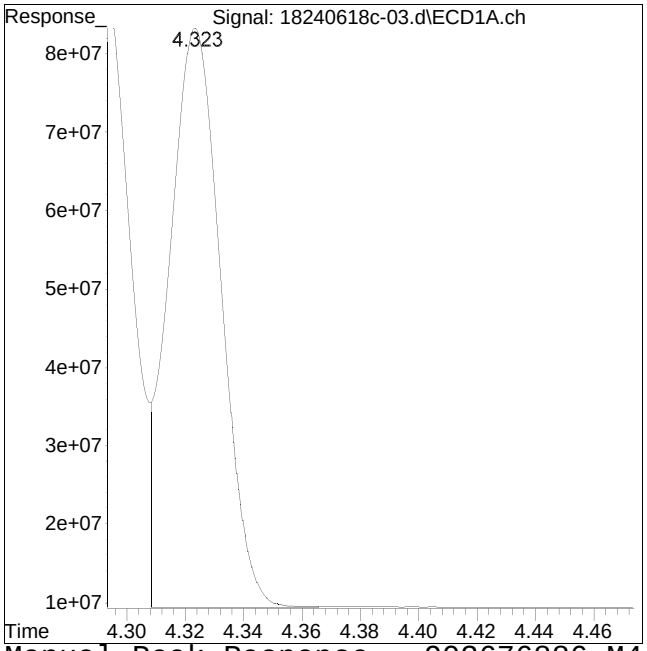
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #16: Endosulfan I



Original Peak Response = 980252016



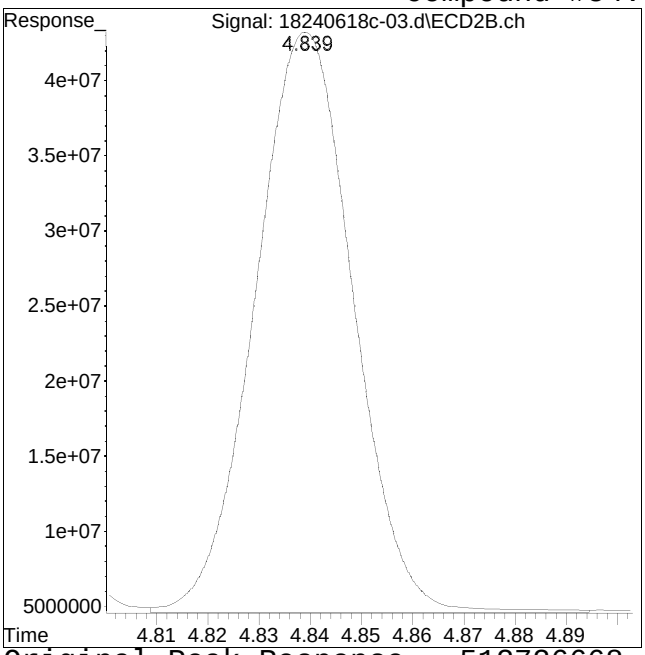
Manual Peak Response = 903676886 M4

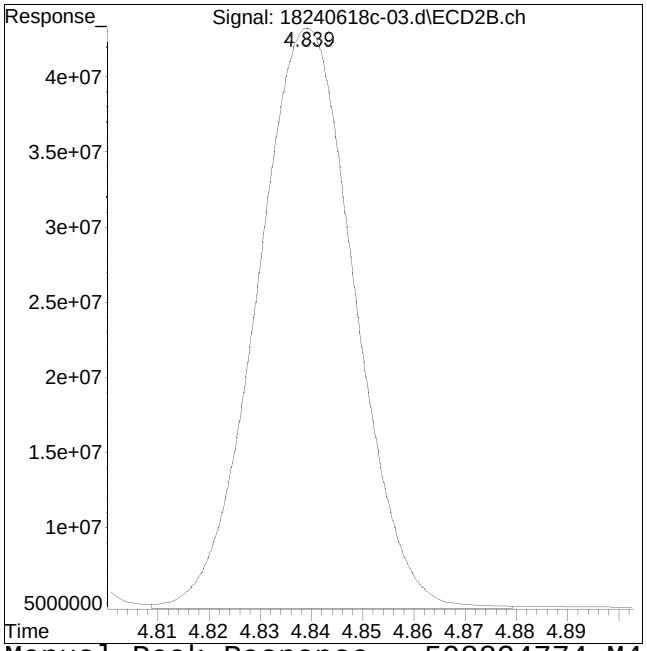
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #54: Endosulfan I #2



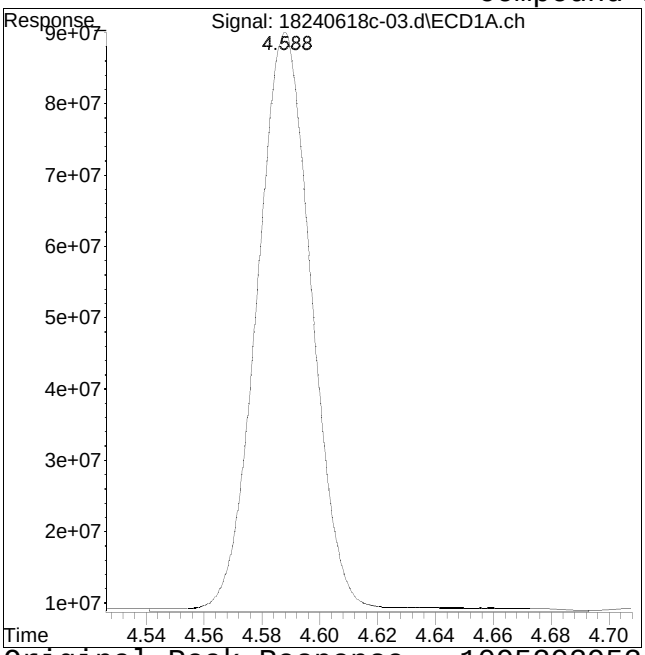


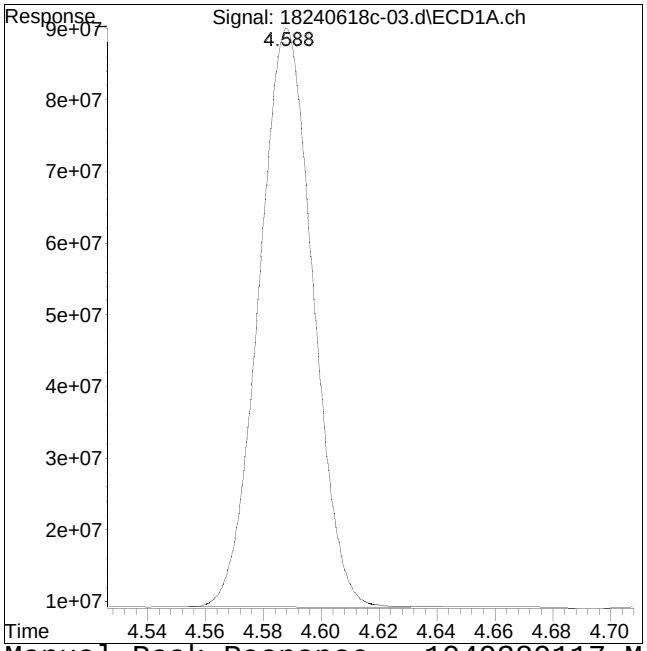
Original Peak Response = 512726668 Manual Peak Response = 508824774 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #17: Dieldrin



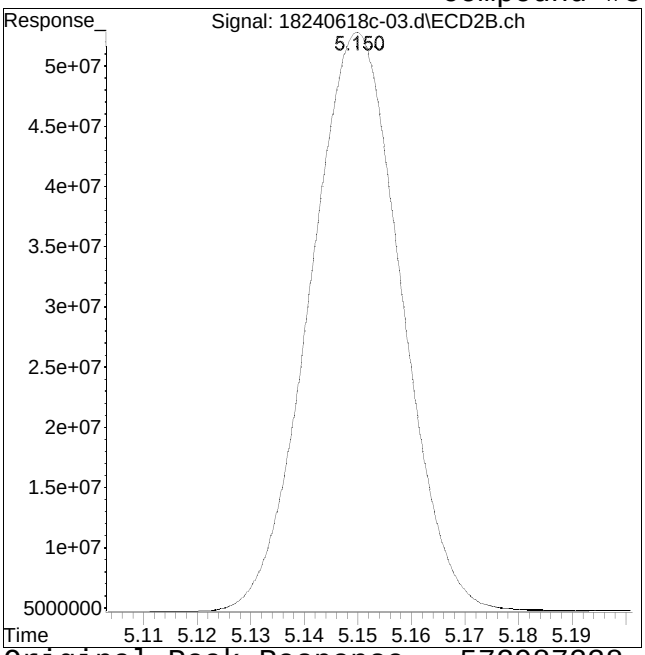


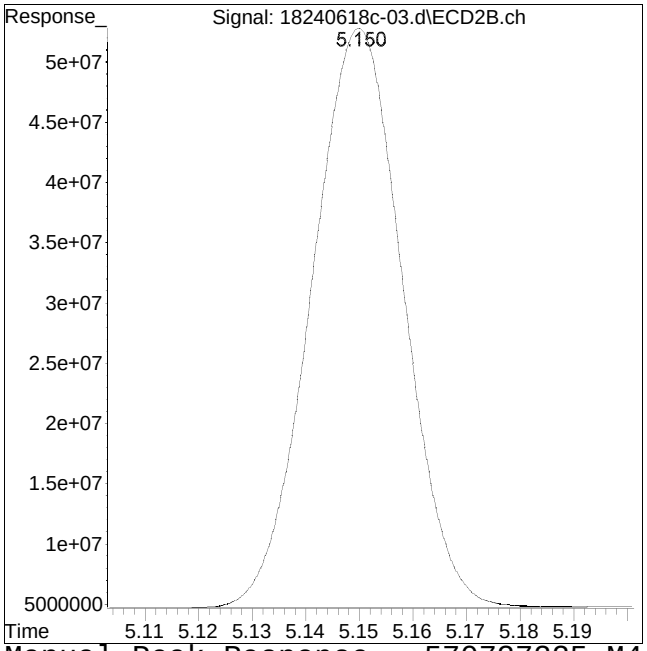
Original Peak Response = 1095293953 Manual Peak Response = 1049389117 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #55: Dieldrin #2



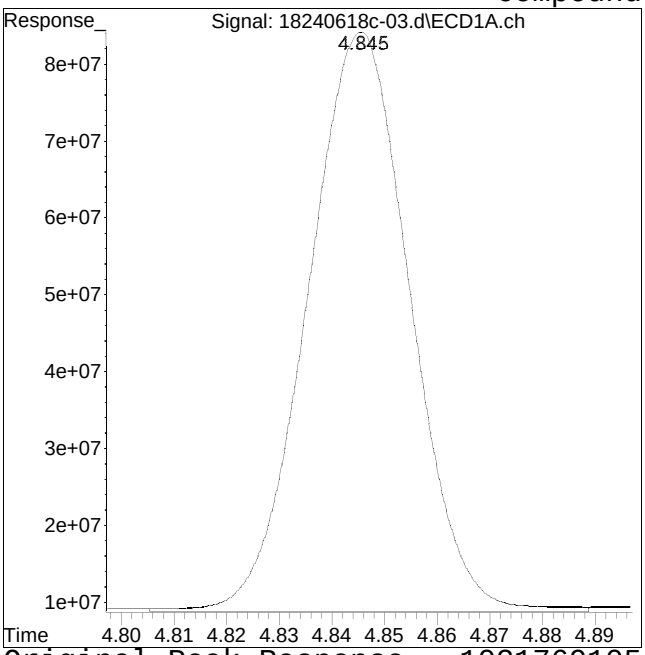


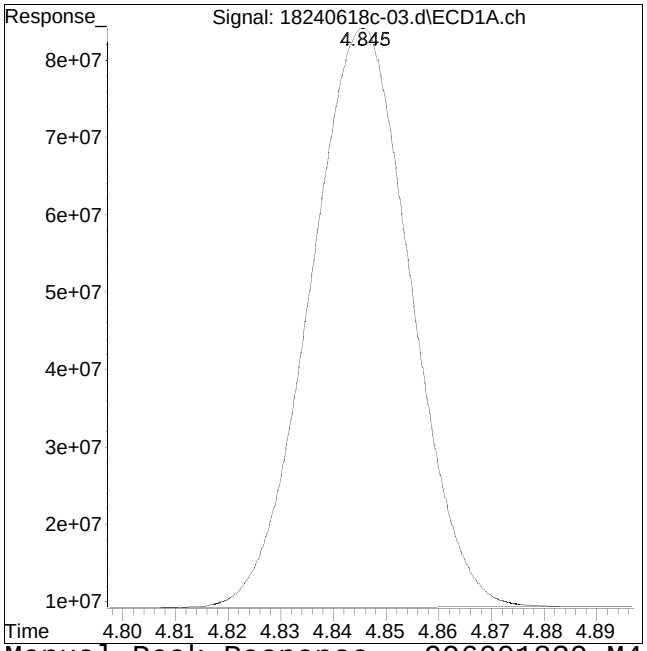
Original Peak Response = 572987338 Manual Peak Response = 570737225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #18: Endrin



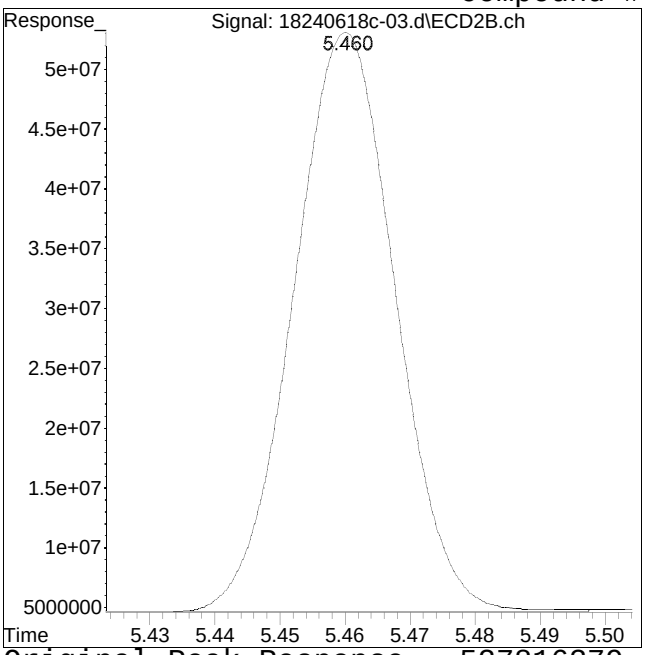


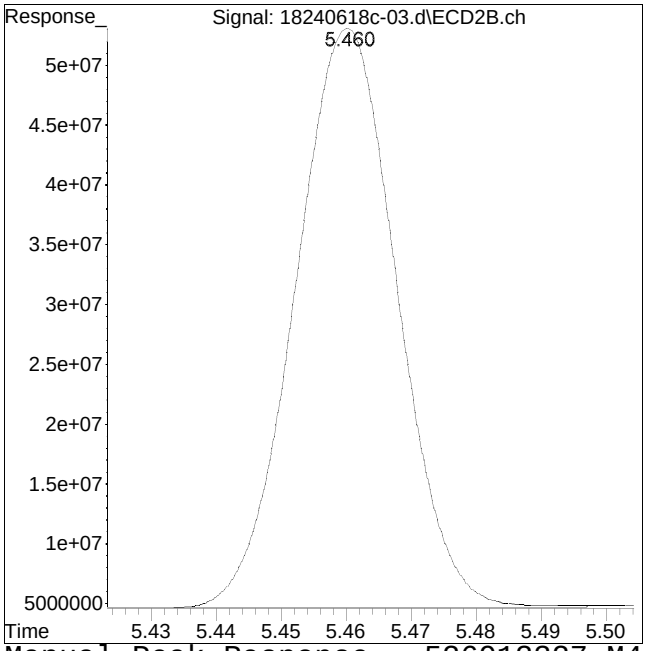
Original Peak Response = 1021769105 Manual Peak Response = 996001830 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #56: Endrin #2



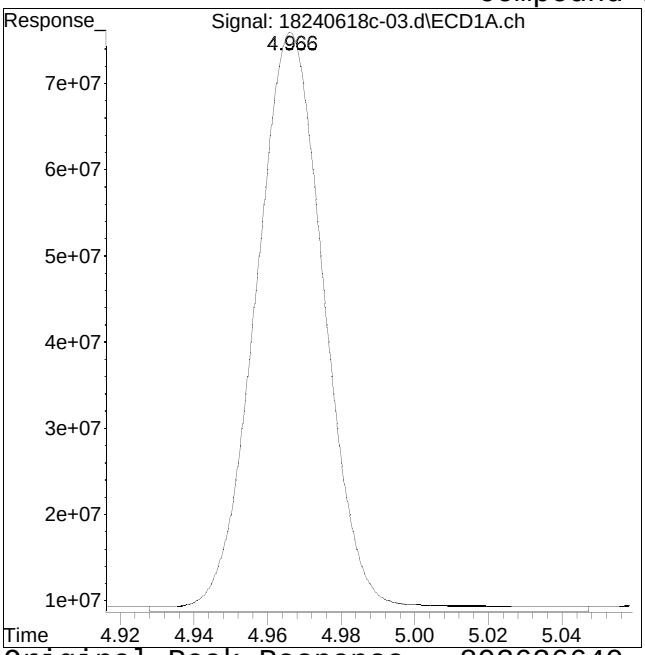


Original Peak Response = 527816379 Manual Peak Response = 526913327 M4
M4 = Poor automated baseline construction.

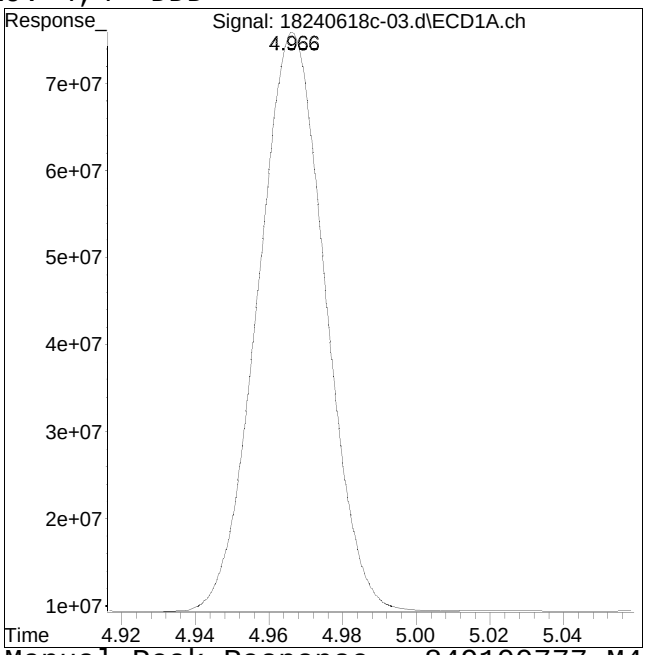
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #19: 4,4'-DDD



Original Peak Response = 893636640



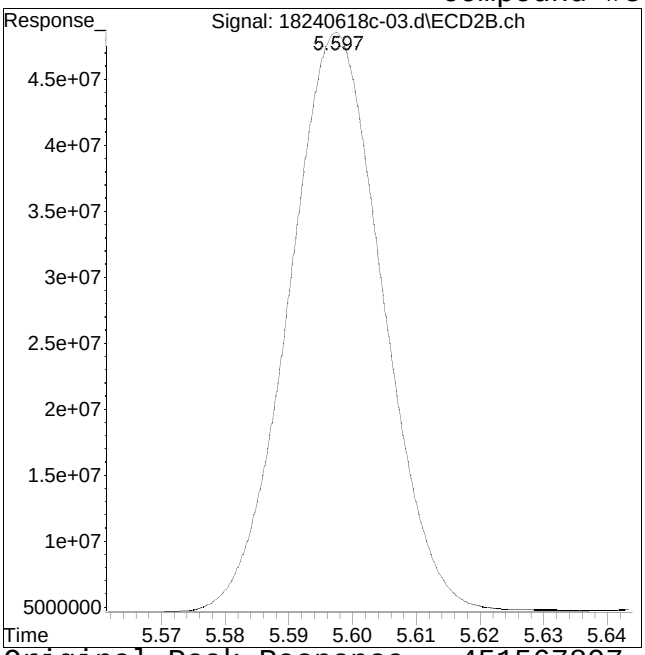
Manual Peak Response = 849100777 M4

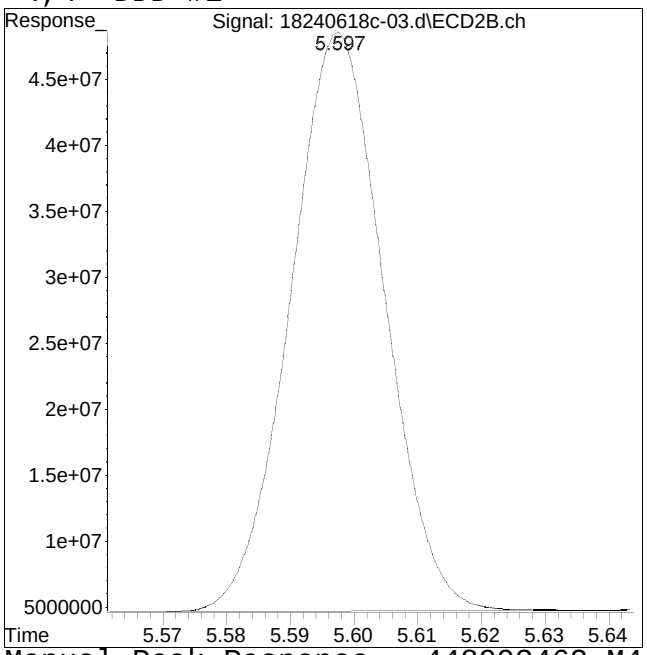
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #57: 4,4'-DDD #2



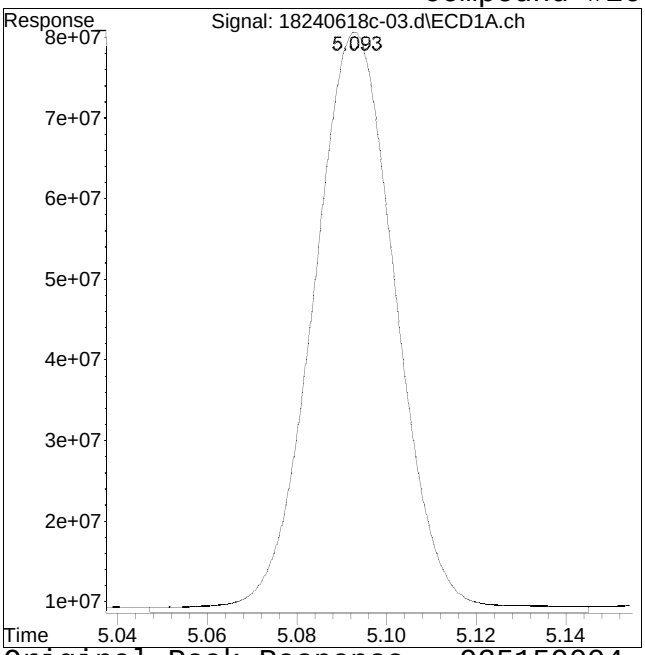


Original Peak Response = 451567807 Manual Peak Response = 448993462 M4
M4 = Poor automated baseline construction.

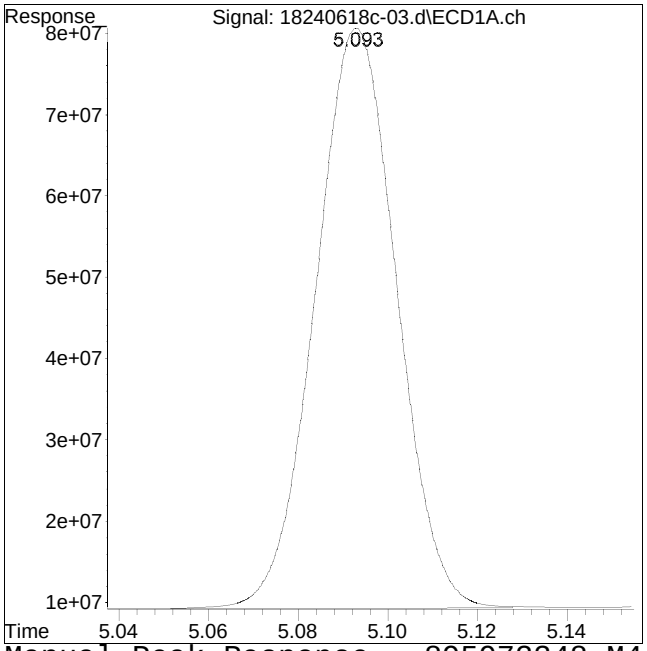
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #20: Endosulfan II



Original Peak Response = 935159004



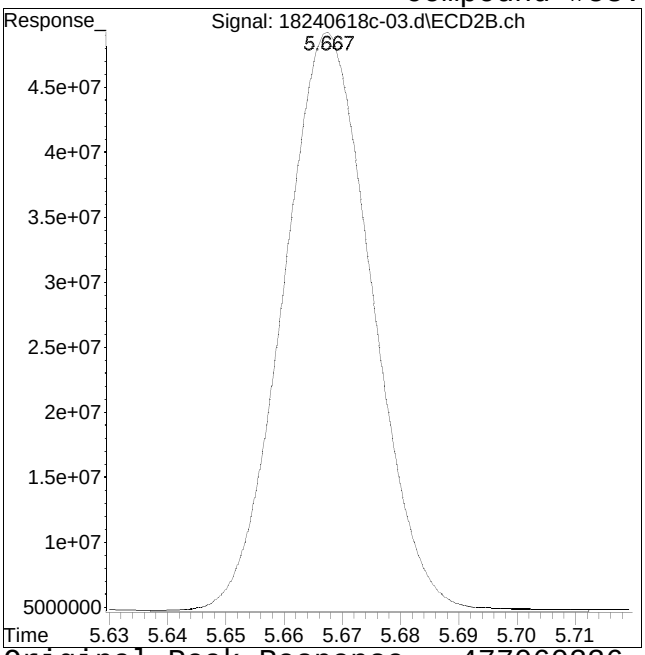
Manual Peak Response = 895973348 M4

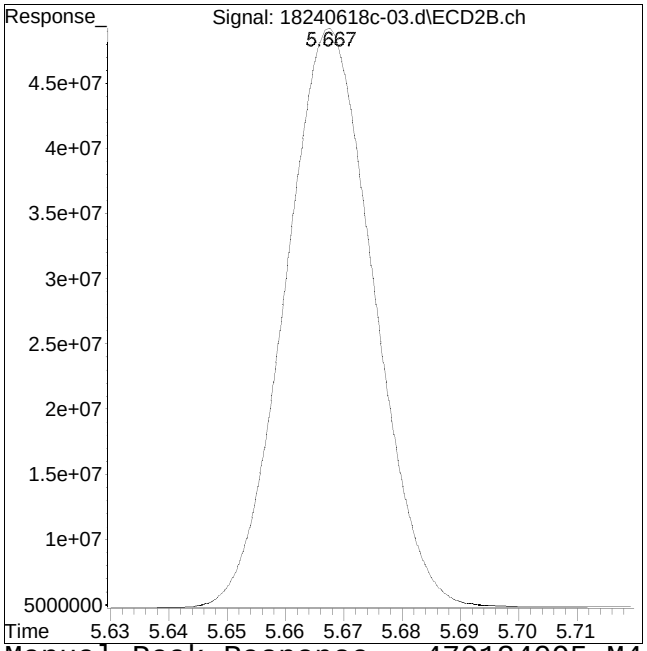
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #58: Endosulfan II #2



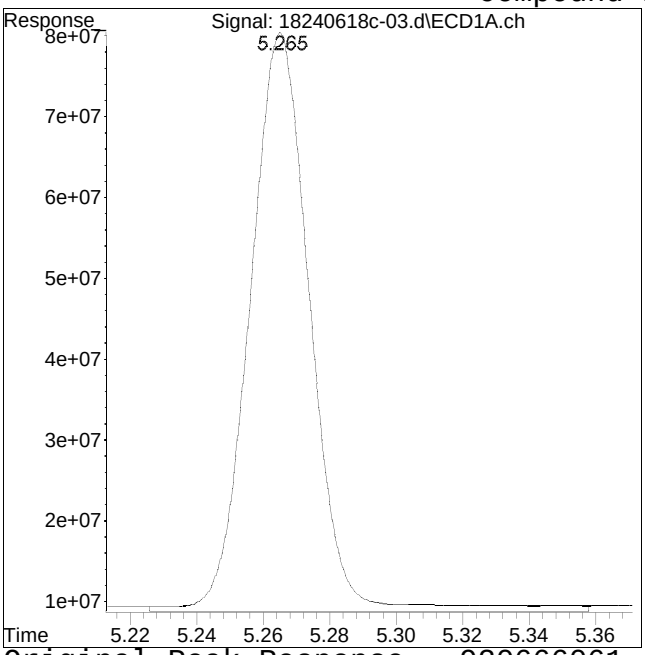


Original Peak Response = 477060336 Manual Peak Response = 470134095 M4
M4 = Poor automated baseline construction.

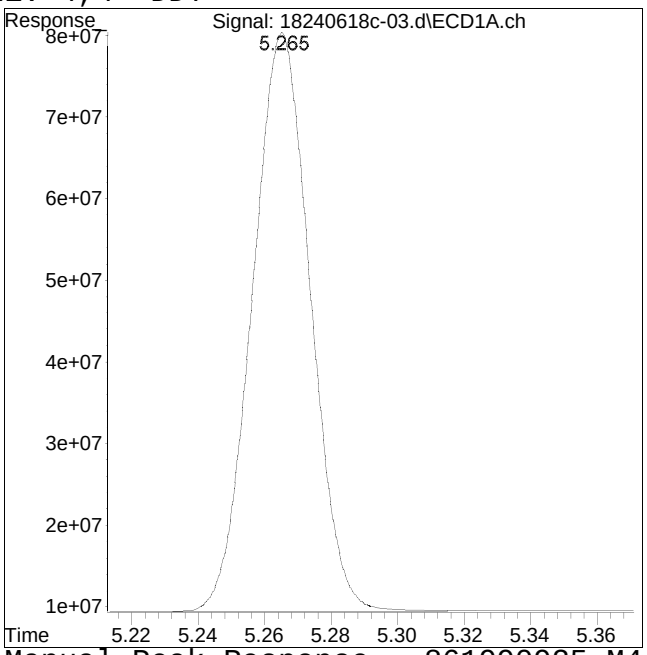
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #21: 4,4'-DDT



Original Peak Response = 920666061



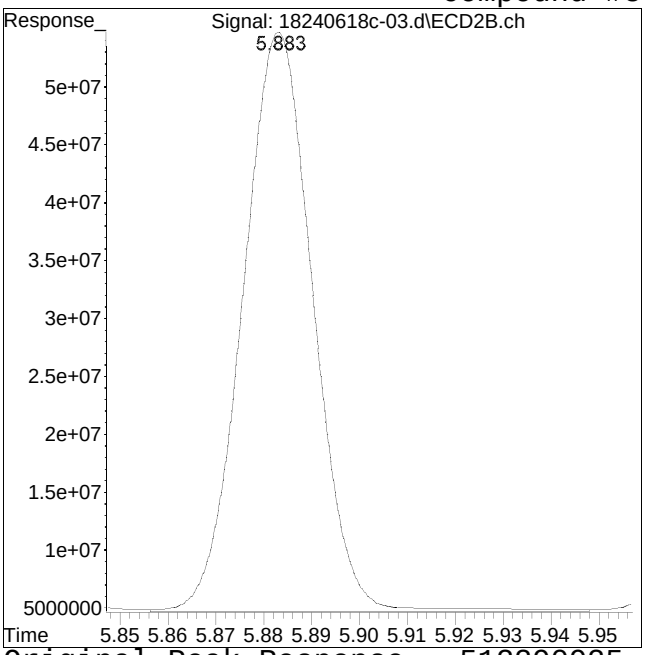
Manual Peak Response = 861990925 M4

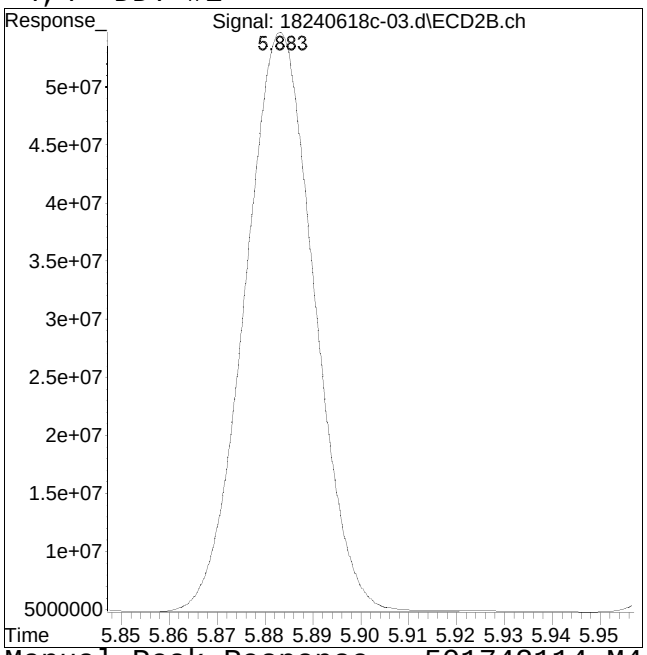
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #59: 4,4'-DDT #2



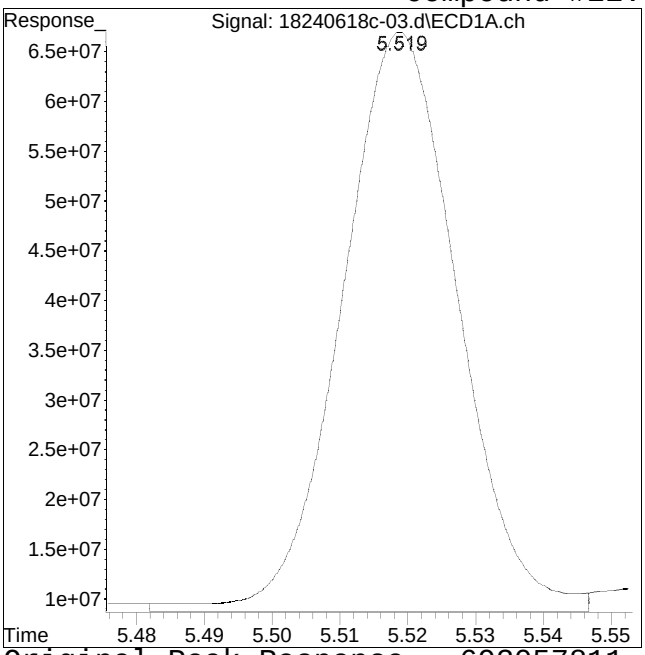


Original Peak Response = 512290925 Manual Peak Response = 501742114 M4
M4 = Poor automated baseline construction.

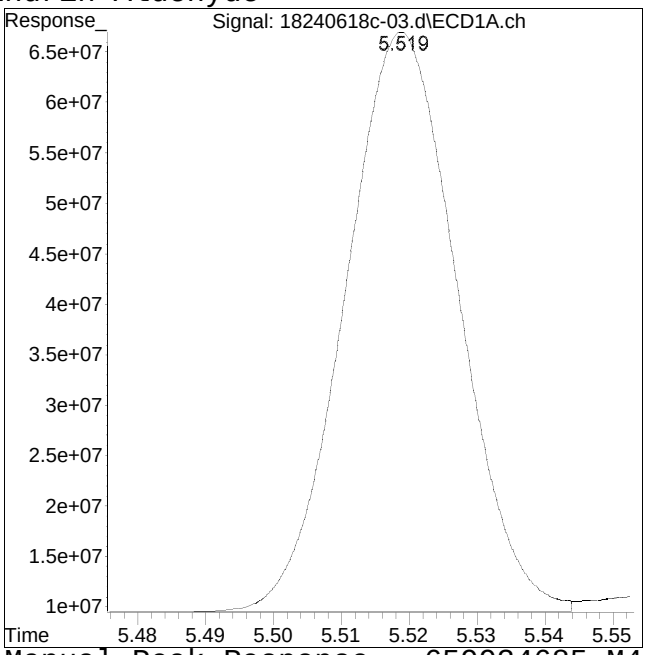
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 693057811



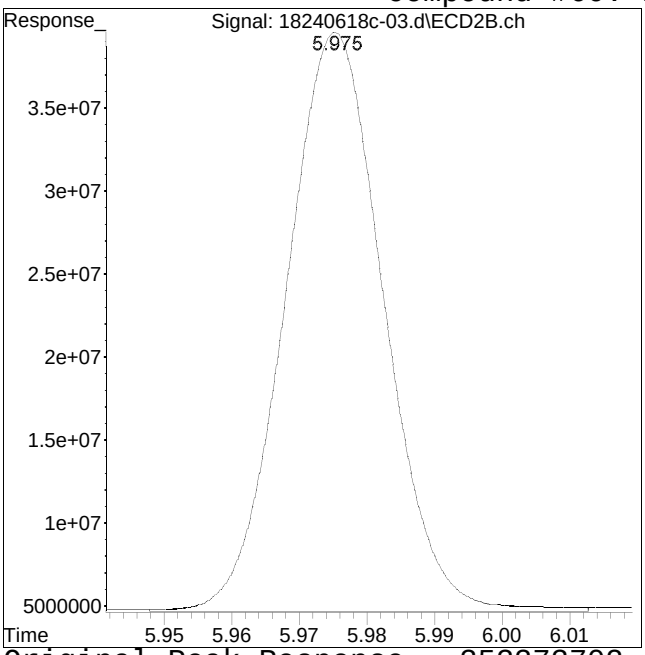
Manual Peak Response = 659934685 M4

M4 = Poor automated baseline construction.

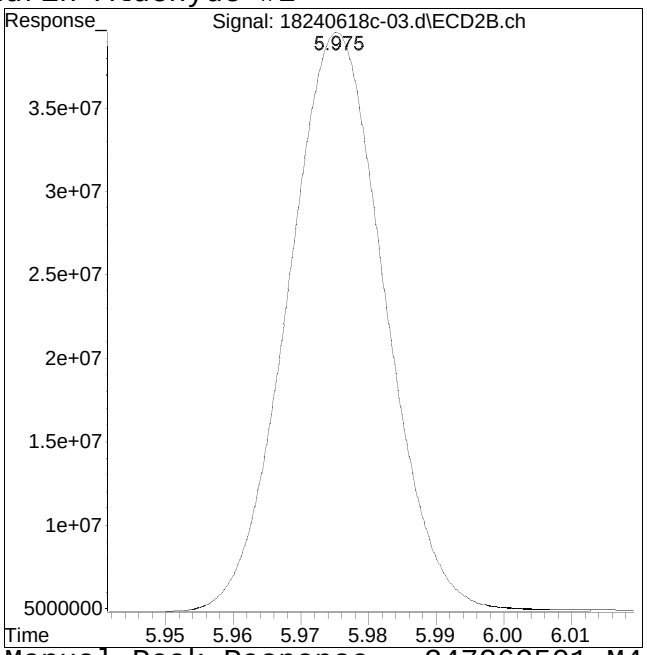
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 353373702



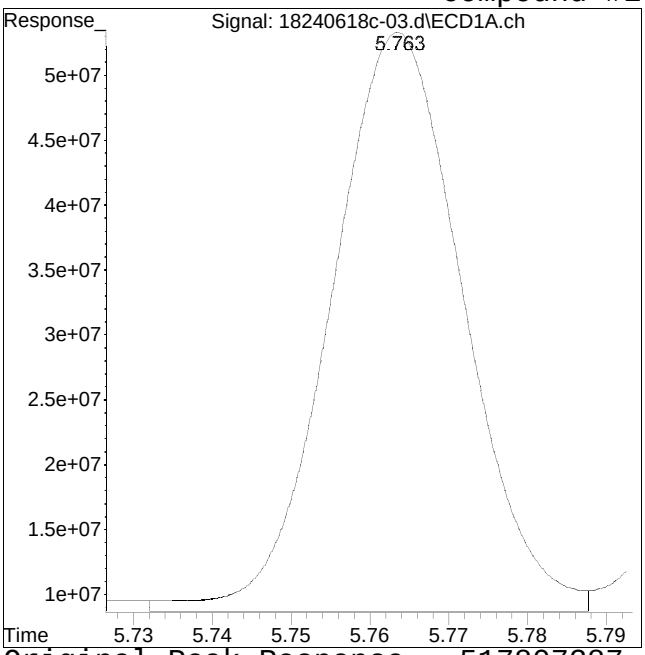
Manual Peak Response = 347262501 M4

M4 = Poor automated baseline construction.

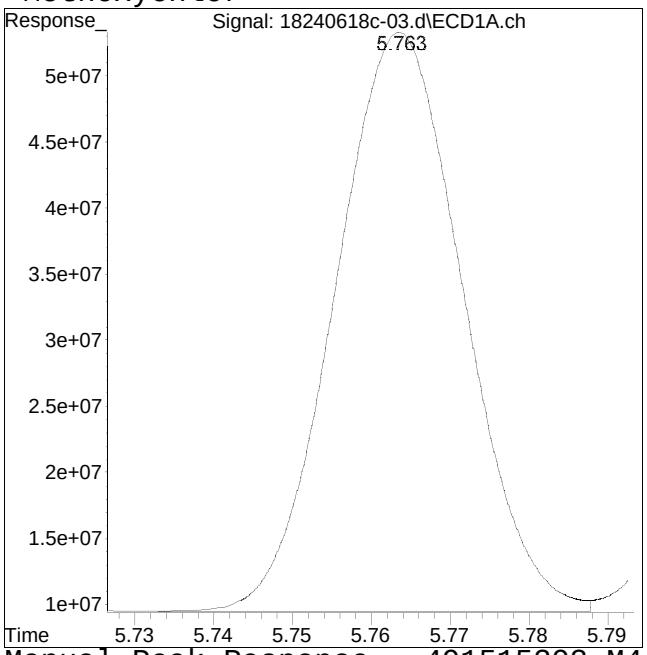
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #23: Methoxychlor



Original Peak Response = 517807387



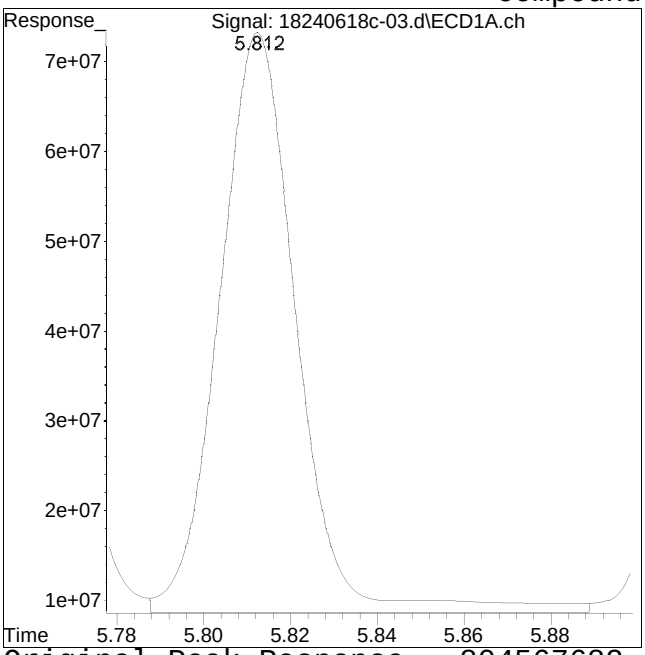
Manual Peak Response = 491515393 M4

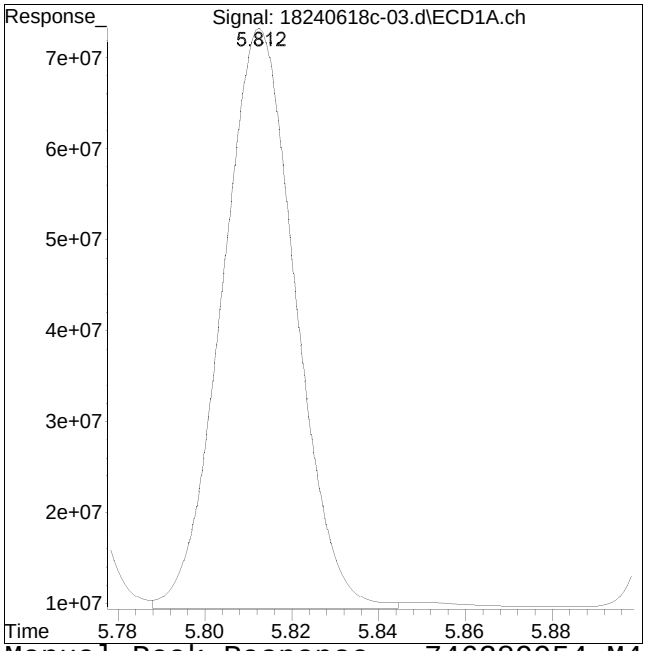
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #24: Mirex



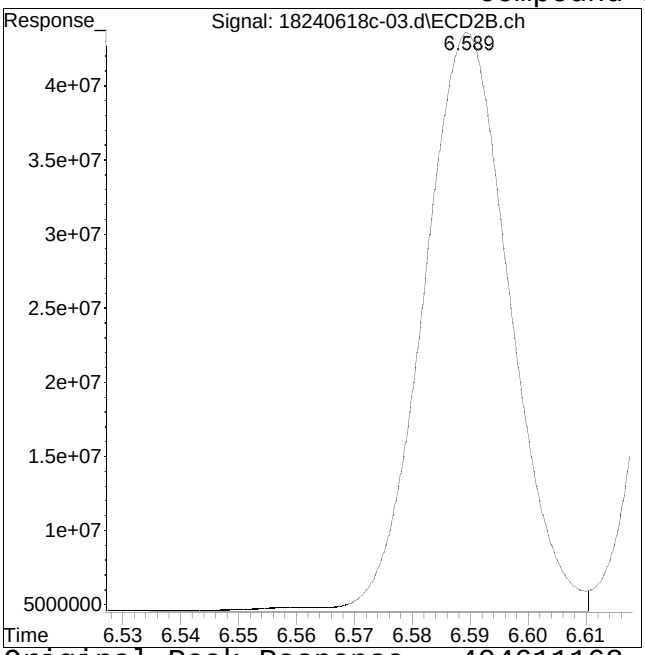


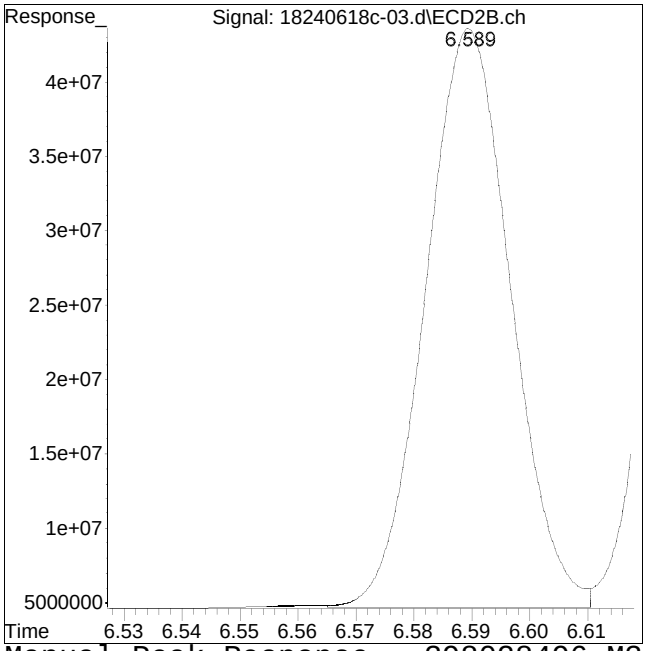
Original Peak Response = 804567682 Manual Peak Response = 746389954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #62: Mirex #2



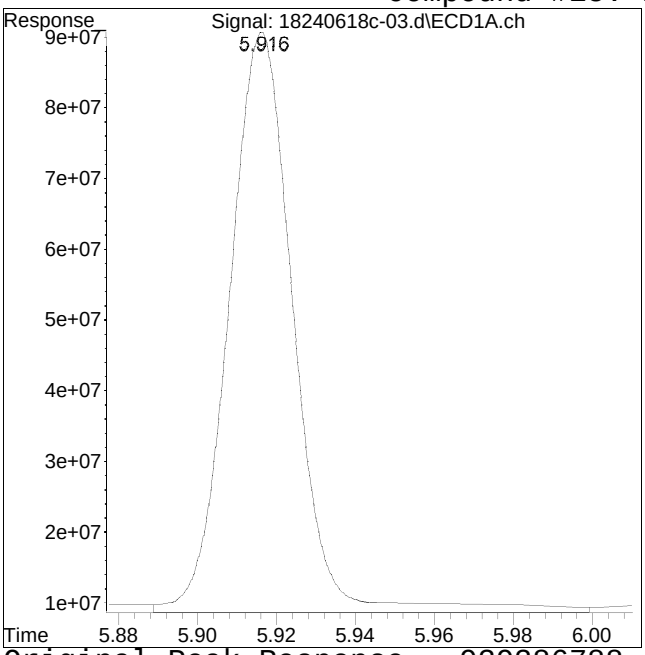


Original Peak Response = 404611163 Manual Peak Response = 398028496 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

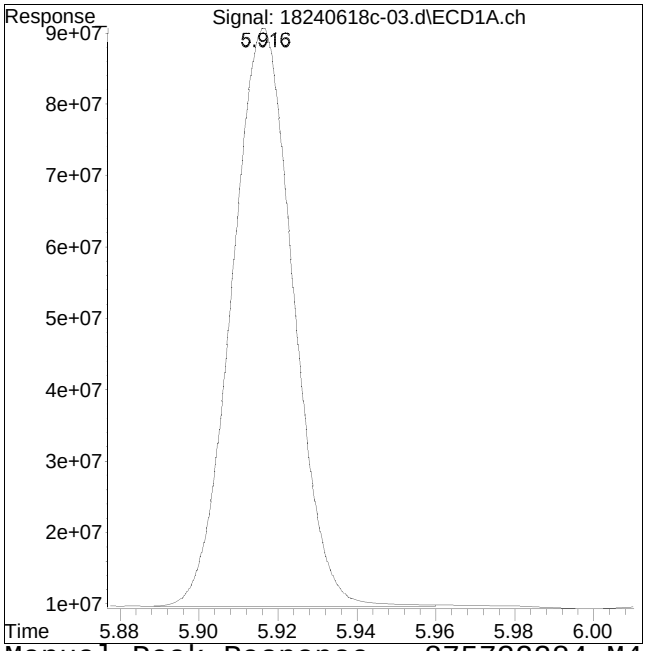
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 939386788



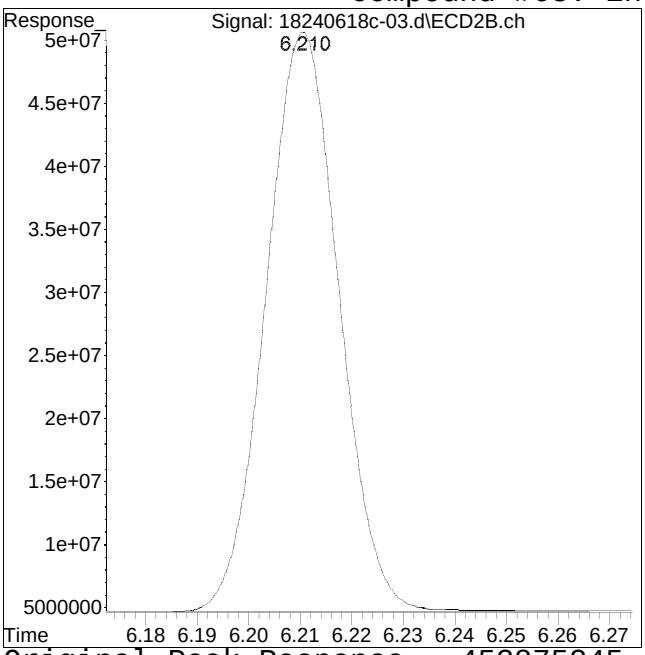
Manual Peak Response = 875732284 M4

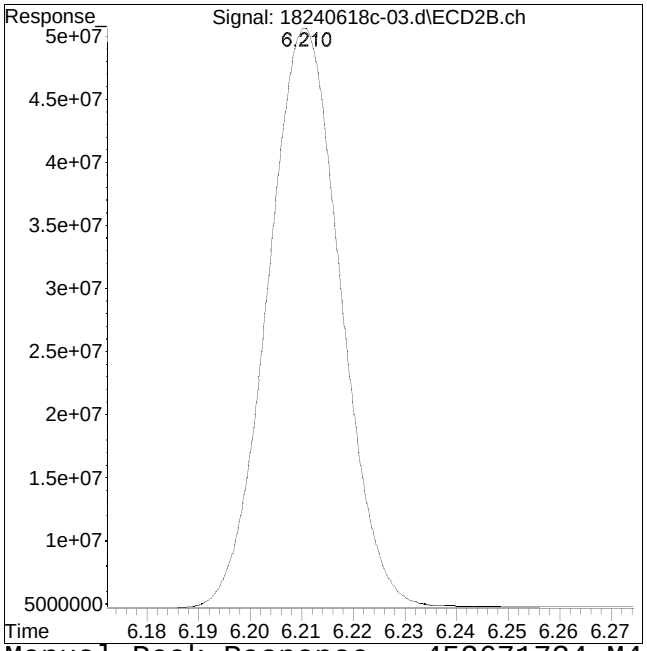
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #63: Endosulfan Sulfate #2



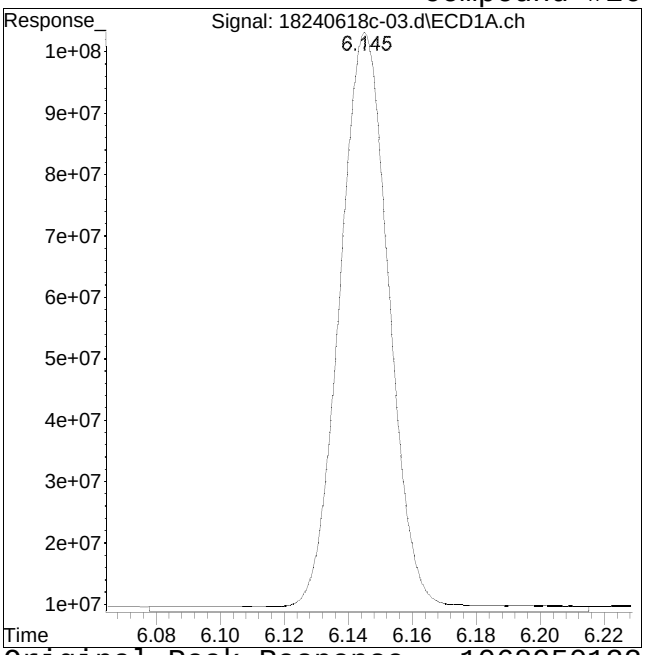


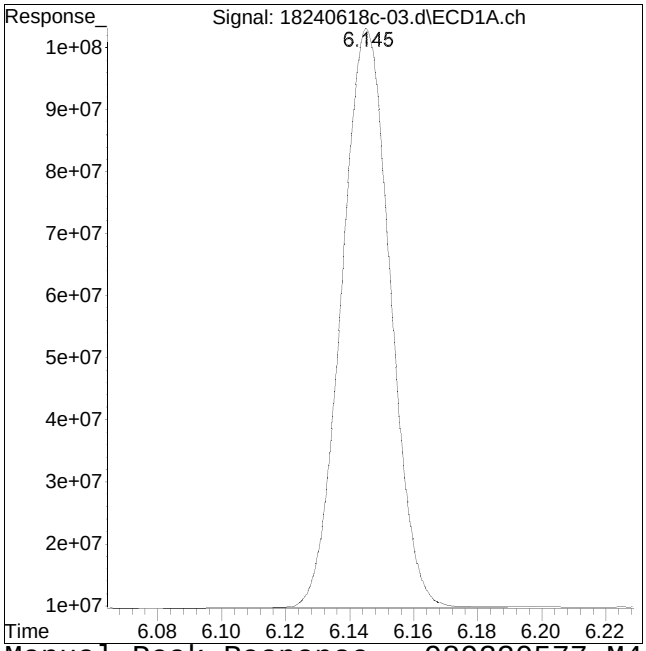
Original Peak Response = 453875245 Manual Peak Response = 452671734 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #26: Endrin Ketone



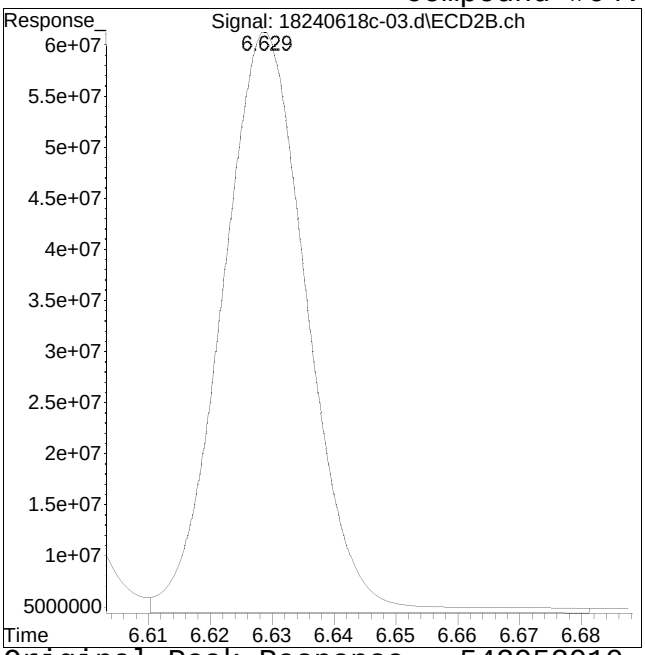


Original Peak Response = 1068950122 Manual Peak Response = 989330577 M4
M4 = Poor automated baseline construction.

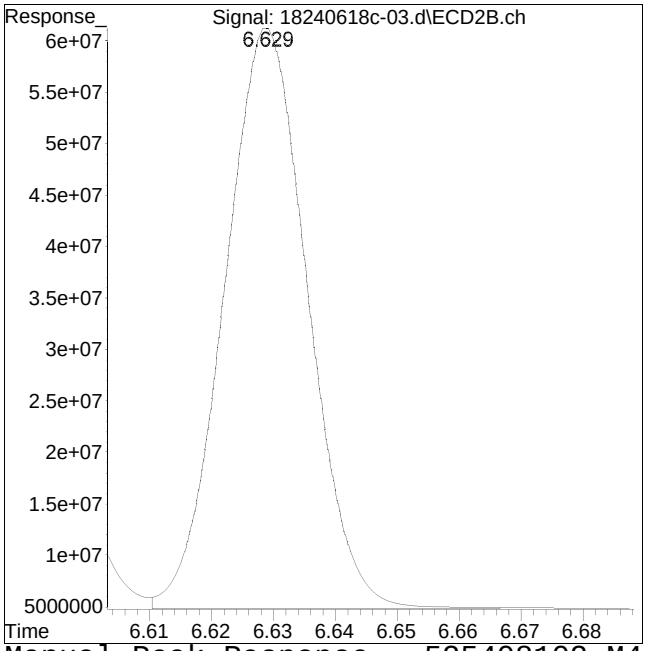
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 542952910



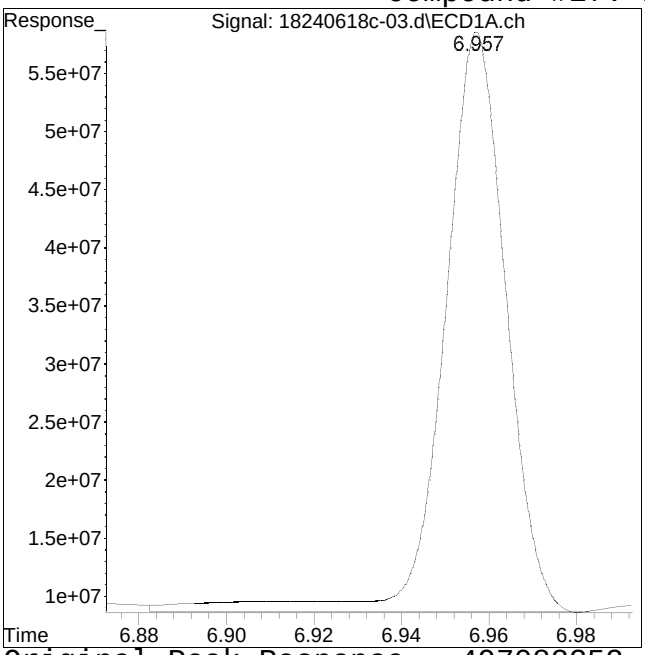
Manual Peak Response = 525408102 M4

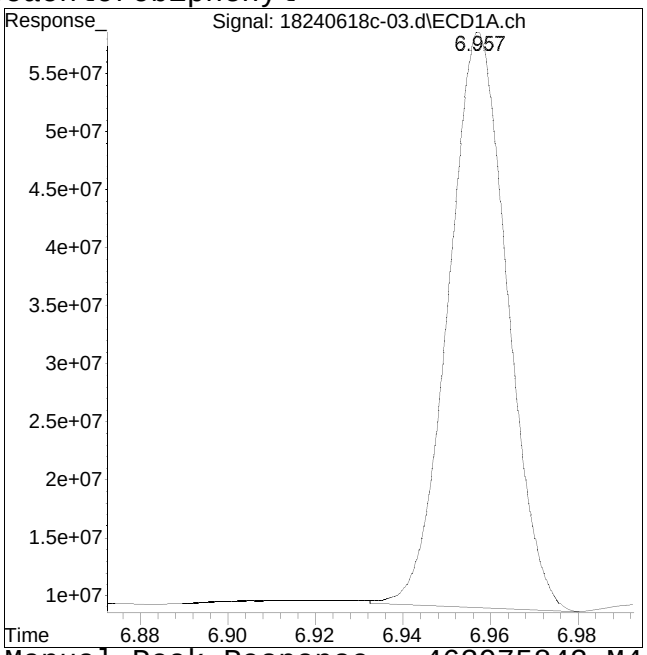
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-03.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:17 Instrument : Pest 18
Sample : wg1935928-1,42,,pest11595 Quant Date : 6/18/2024 1:16 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 497082352 Manual Peak Response = 463975842 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample   : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	129	0.00
29	l1	chlordane-1		*1000.000	783.410	21.7#	98	0.00
30	l1	chlordane-3		*1000.000	1017.569	-1.8	128	0.00
31	l1	chlordane-4		*1000.000	1005.301	-0.5	126	0.00
32	l1	chlordane-5		*1000.000	1093.115	-9.3	137	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	144	0.00
29	l1	chlordane-1		*1000.000	1049.829	-5.0	147	0.00
30	l1	chlordane-3		*1000.000	1070.113	-7.0	148	0.00
31	l1	chlordane-4		*1000.000	1071.915	-7.2	150	0.00
32	l1	chlordane-5		*1000.000	1052.582	-5.3	147	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.000	100.0#	0#	-2.16#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.40#
4		alpha-BHC		1.295	0.000	100.0#	0#	-2.51#
5		gamma-BHC (lindane)		1.214	0.000	100.0#	0#	-2.74#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.80#
7		delta-BHC		1.217	0.000	100.0#	0#	-2.94#
8		Heptachlor		1.207	0.000	100.0#	0#	-3.11#
9		Aldrin		1.083	0.000	100.0#	0#	-3.36#
10		Alachlor		0.190	0.000	100.0#	0#	-3.50#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.59#
12		Heptachlor Epoxide		1.041	0.000	100.0#	0#	-3.92#
13		gamma-Chlordane (trans)		0.977	0.000	100.0#	0#	-4.05#

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample   : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.075	0.000	100.0#	0#	-4.19#
15		4,4'-DDE		1.019	0.000	100.0#	0#	-4.29#
16		Endosulfan I		0.985	0.000	100.0#	0#	-4.32#
17		Dieldrin		1.023	0.000	100.0#	0#	-4.59#
18		Endrin		1.058	0.000	100.0#	0#	-4.85#
19		4,4'-DDD		0.837	0.000	100.0#	0#	-4.97#
20		Endosulfan II		0.925	0.000	100.0#	0#	-5.09#
21		4,4'-DDT		0.915	0.000	100.0#	0#	-5.26#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.52#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.76#
24		Mirex	*	50.000	0.000	100.0#	0	-5.81#
25		Endosulfan Sulfate		0.912	0.000	100.0#	0#	-5.92#
26		Endrin Ketone		1.006	0.000	100.0#	0#	-6.15#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.96#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.72#
34	l2	toxaphene-1		0.042	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-2		0.043	0.000	100.0#	0#	-5.21#
36	l2	toxaphene-3		0.042	0.000	100.0#	0#	-5.44#
37	l2	toxaphene-4		0.041	0.000	100.0#	0#	-5.82#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.78#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	0.000	100.0#	0#	-2.32#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.66#
4		alpha-BHC		1.279	0.000	100.0#	0#	-2.77#
5		gamma-BHC (lindane)		1.209	0.000	100.0#	0#	-3.06#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.13#
7		delta-BHC		1.217	0.000	100.0#	0#	-3.40#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample   : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.197	0.000	100.0#	0#	-3.45#
9		Aldrin		1.063	0.000	100.0#	0#	-3.77#
10		Alachlor		0.189	0.000	100.0#	0#	-3.67#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.02#
12		Heptachlor Epoxide		1.035	0.000	100.0#	0#	-4.38#
13		gamma-Chlordane (trans)		0.947	0.000	100.0#	0#	-4.60#
14		alpha-Chlordane (cis)		1.068	0.000	100.0#	0#	-4.78#
15		4,4'-DDE		0.999	0.000	100.0#	0#	-5.00#
16		Endosulfan I		0.989	0.000	100.0#	0#	-4.84#
17		Dieldrin		1.000	0.000	100.0#	0#	-5.15#
18		Endrin		0.979	0.000	100.0#	0#	-5.46#
19		4,4'-DDD		0.833	0.000	100.0#	0#	-5.60#
20		Endosulfan II		0.916	0.000	100.0#	0#	-5.67#
21		4,4'-DDT		0.959	0.000	100.0#	0#	-5.88#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.98#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.47#
24		Mirex	*	50.000	0.000	100.0#	0	-6.59#
25		Endosulfan Sulfate		0.881	0.000	100.0#	0#	-6.21#
26		Endrin Ketone		1.009	0.000	100.0#	0#	-6.63#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.52#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.78#
34	l2	toxaphene-1		0.020	0.000	100.0#	0#	-5.63#
35	l2	toxaphene-2		0.031	0.000	100.0#	0#	-5.65#
36	l2	toxaphene-3		0.036	0.000	100.0#	0#	-5.98#
37	l2	toxaphene-4		0.034	0.000	100.0#	0#	-6.40#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.720	1.776	475.1E6	228.8E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.106	3.319	966.8E6	315.9E6	783.410	1049.829
30) l1	chlordane-3	3.479	3.928	741.0E6	346.2E6	1017.569	1070.113
31) l1	chlordane-4	4.051	4.604	2618.3E6	1285.0E6	1005.301	1071.915
32) l1	chlordane-5	4.180	4.778	4396.5E6	998.6E6	1093.115	1052.582
Sum	chlordane-1			8722.7E6	2945.7E6	N.D.	N.D. D
Average	chlordane-1					974.849	1061.110
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

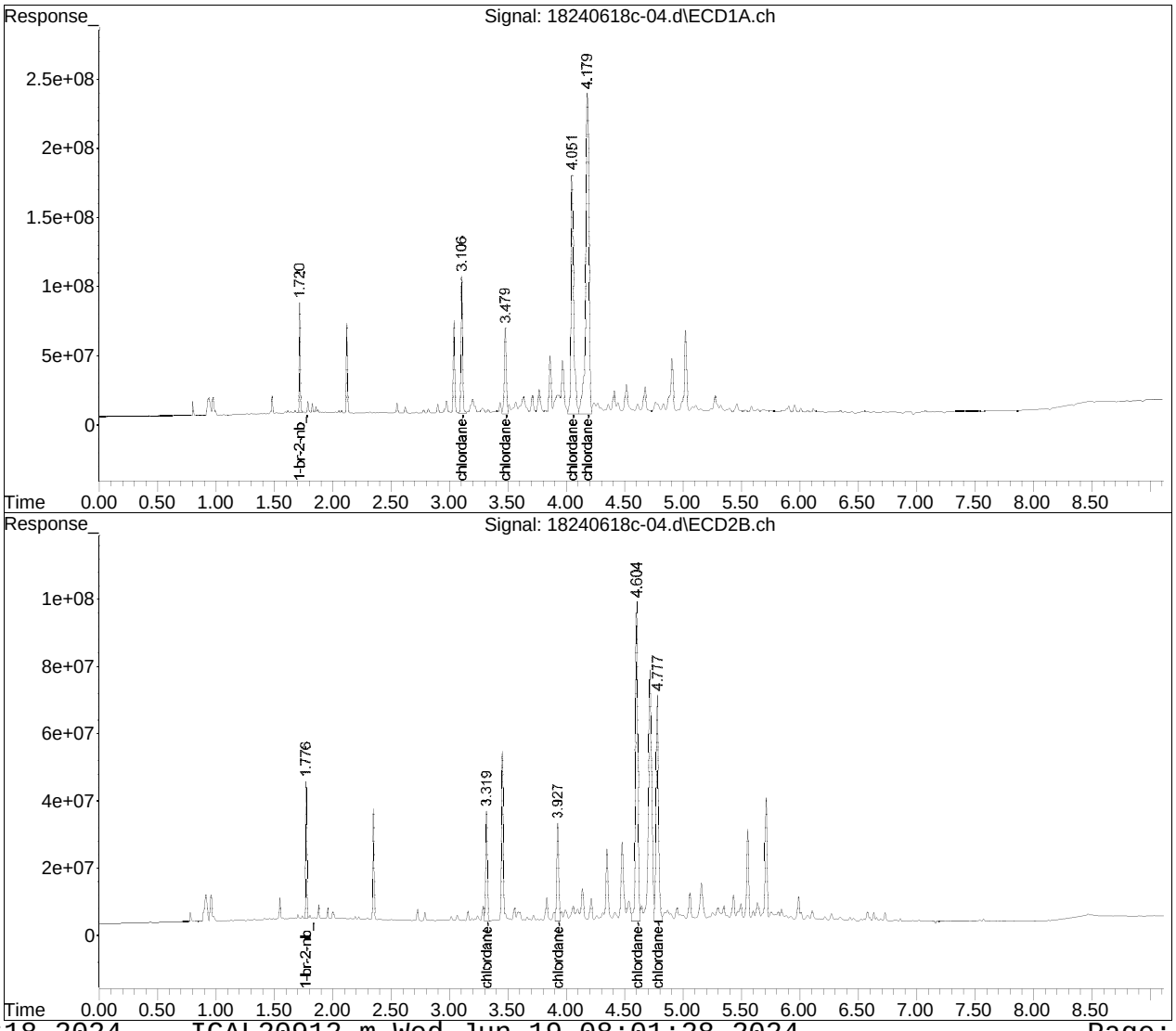
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:28
Operator : PEST18:akm
Sample : wg1935928-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:17:50 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:17:44 2024
Response via : Initial Calibration
Integrator: ChemStation

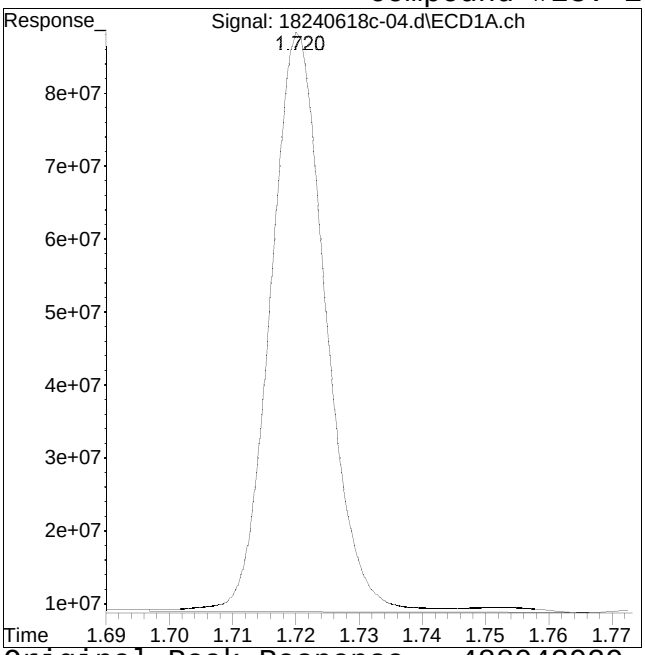
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

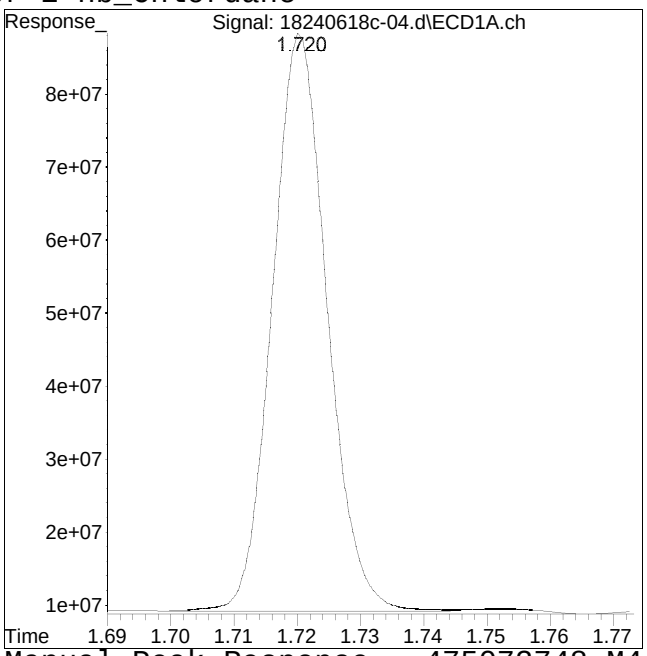


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-04.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:28 Instrument : Pest 18
Sample : wg1935928-2,42,,chlor11612Quant Date : 6/18/2024 1:17 pm

Compound #28: 1-br-2-nb_Chlordane



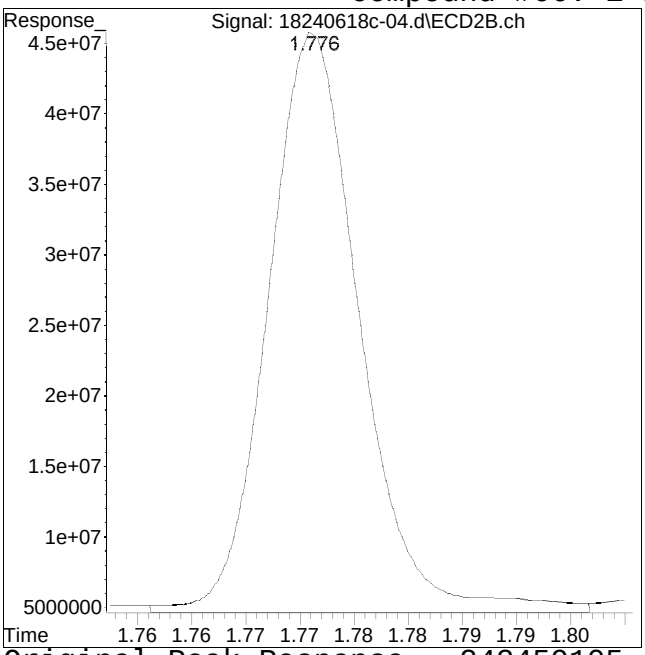


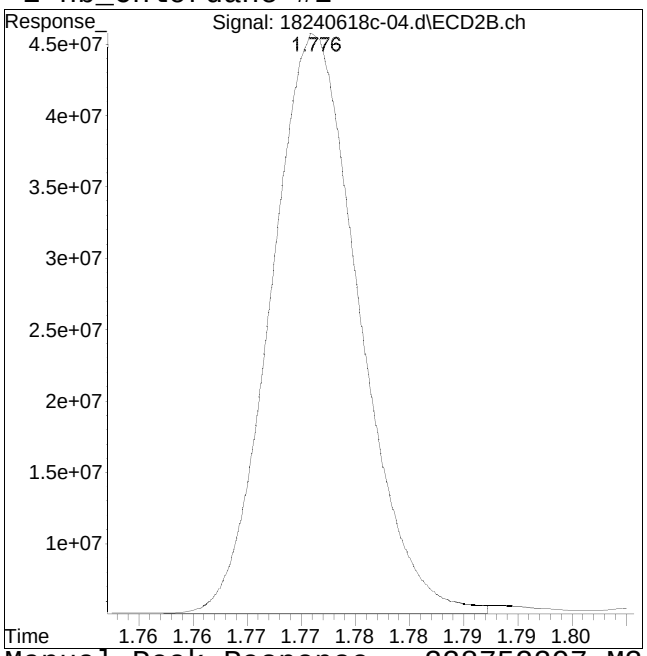
Original Peak Response = 488043929 Manual Peak Response = 475073748 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-04.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:28 Instrument : Pest 18
Sample : wg1935928-2,42,,chlor11612Quant Date : 6/18/2024 1:17 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 242459105 Manual Peak Response = 228752297 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample   : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	131	0.00
34	l2	toxaphene-1		0.042	0.044	-4.8	143	0.00
35	l2	toxaphene-2		0.043	0.046	-7.0	140	0.00
36	l2	toxaphene-3		0.042	0.045	-7.1	142	0.00
37	l2	toxaphene-4		0.041	0.040	2.4	140	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	143	0.00
34	l2	toxaphene-1		0.020	0.026	-30.0#	173#	0.00
35	l2	toxaphene-2		0.031	0.039	-25.8#	170#	0.00
36	l2	toxaphene-3		0.036	0.044	-22.2#	163#	0.00
37	l2	toxaphene-4		0.034	0.041	-20.6#	169#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen		0.987	0.000	100.0#	0#	-2.16#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.40#
4		alpha-BHC		1.295	0.000	100.0#	0#	-2.51#
5		gamma-BHC (lindane)		1.214	0.000	100.0#	0#	-2.74#
6		beta-BHC	*	50.000	0.000	100.0#	0	-2.80#
7		delta-BHC		1.217	0.000	100.0#	0#	-2.94#
8		Heptachlor		1.207	0.000	100.0#	0#	-3.11#
9		Aldrin		1.083	0.000	100.0#	0#	-3.36#
10		Alachlor		0.190	0.000	100.0#	0#	-3.50#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.59#
12		Heptachlor Epoxide		1.041	0.000	100.0#	0#	-3.92#
13		gamma-Chlordane (trans)		0.977	0.000	100.0#	0#	-4.05#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample   : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.075	0.000	100.0#	0#	-4.19#
15		4,4'-DDE		1.019	0.000	100.0#	0#	-4.29#
16		Endosulfan I		0.985	0.000	100.0#	0#	-4.32#
17		Dieldrin		1.023	0.000	100.0#	0#	-4.59#
18		Endrin		1.058	0.000	100.0#	0#	-4.85#
19		4,4'-DDD		0.837	0.000	100.0#	0#	-4.97#
20		Endosulfan II		0.925	0.000	100.0#	0#	-5.09#
21		4,4'-DDT		0.915	0.000	100.0#	0#	-5.26#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.52#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-5.76#
24		Mirex	*	50.000	0.000	100.0#	0	-5.81#
25		Endosulfan Sulfate		0.912	0.000	100.0#	0#	-5.92#
26		Endrin Ketone		1.006	0.000	100.0#	0#	-6.15#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.96#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.72#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.11#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.48#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.05#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.18#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.78#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.991	0.000	100.0#	0#	-2.32#
3		Hexachlorobenzene	*	50.000	0.000	100.0#	0	-2.66#
4		alpha-BHC		1.279	0.000	100.0#	0#	-2.77#
5		gamma-BHC (lindane)		1.209	0.000	100.0#	0#	-3.06#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.13#
7		delta-BHC		1.217	0.000	100.0#	0#	-3.40#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample   : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1935928,,ical20912
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.197	0.000	100.0#	0#	-3.45#
9		Aldrin		1.063	0.000	100.0#	0#	-3.77#
10		Alachlor		0.189	0.000	100.0#	0#	-3.67#
11		Chlorpyrifos	*	50.000	0.000	100.0#	0	-4.02#
12		Heptachlor Epoxide		1.035	0.000	100.0#	0#	-4.38#
13		gamma-Chlordane (trans)		0.947	0.000	100.0#	0#	-4.60#
14		alpha-Chlordane (cis)		1.068	0.000	100.0#	0#	-4.78#
15		4,4'-DDE		0.999	0.000	100.0#	0#	-5.00#
16		Endosulfan I		0.989	0.000	100.0#	0#	-4.84#
17		Dieldrin		1.000	0.000	100.0#	0#	-5.15#
18		Endrin		0.979	0.000	100.0#	0#	-5.46#
19		4,4'-DDD		0.833	0.000	100.0#	0#	-5.60#
20		Endosulfan II		0.916	0.000	100.0#	0#	-5.67#
21		4,4'-DDT		0.959	0.000	100.0#	0#	-5.88#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.98#
23		Methoxychlor	*	50.000	0.000	100.0#	0	-6.47#
24		Mirex	*	50.000	0.000	100.0#	0	-6.59#
25		Endosulfan Sulfate		0.881	0.000	100.0#	0#	-6.21#
26		Endrin Ketone		1.009	0.000	100.0#	0#	-6.63#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.52#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.78#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.93#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.60#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.78#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.720	1.776	456.2E6	214.1E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.084	5.627	1604.1E6	442.2E6	2096.085M3	2601.384
35) l2	toxaphene-2	5.211	5.655	1685.8E6	660.1E6	2152.008M3	2498.948
36) l2	toxaphene-3	5.442	5.985	1647.5E6	747.4E6	2145.145	2401.342
37) l2	toxaphene-4	5.822	6.401	1470.2E6	707.7E6	1986.695	2446.123
Sum	toxaphene-1			6407.6E6	2557.4E6	8379.932	9947.798
Average	toxaphene-1					2094.983	2486.949

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			6407.6E6	2557.4E6	8379.932	9947.798
Average	toxaphene-1					2094.983	2486.949

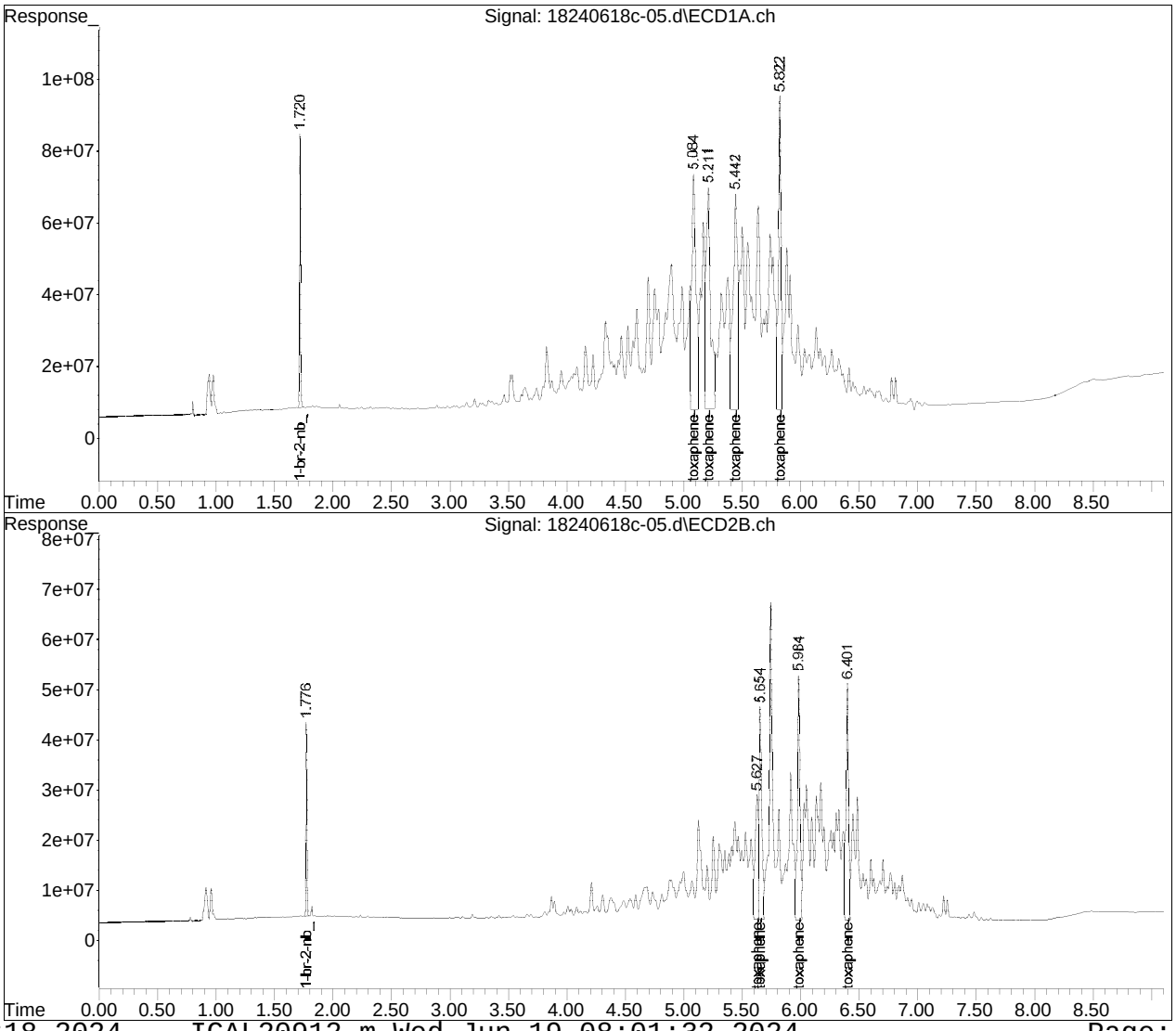
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:40
Operator : PEST18:akm
Sample : wg1935928-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:19:36 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:29 2024
Response via : Initial Calibration
Integrator: ChemStation

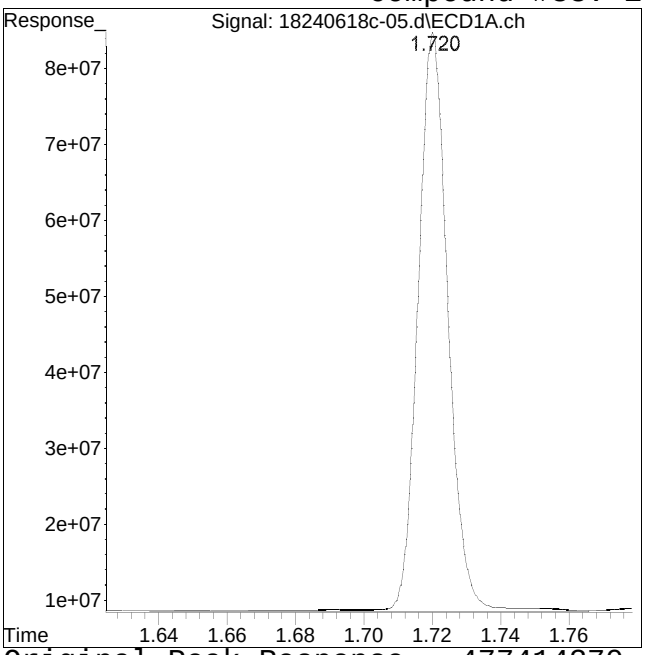
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



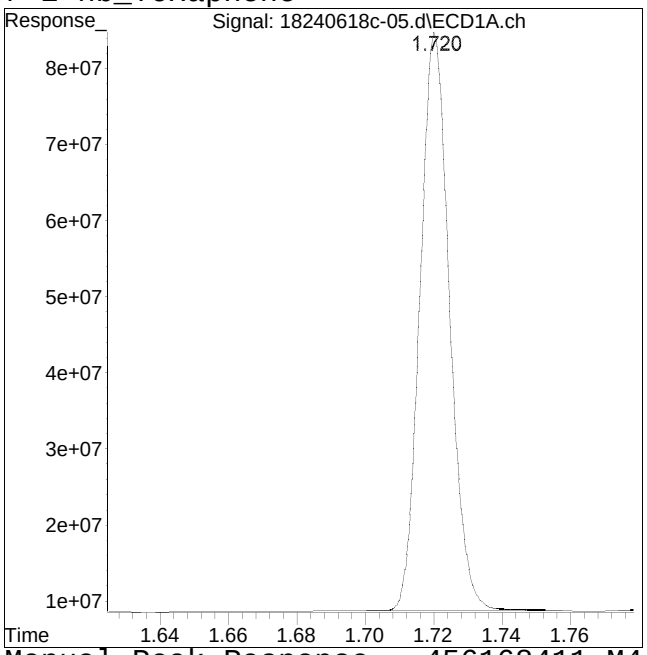
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-05.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:40 Instrument : Pest 18
Sample : wg1935928-3,42,,tox11615 Quant Date : 6/18/2024 1:19 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 477414370



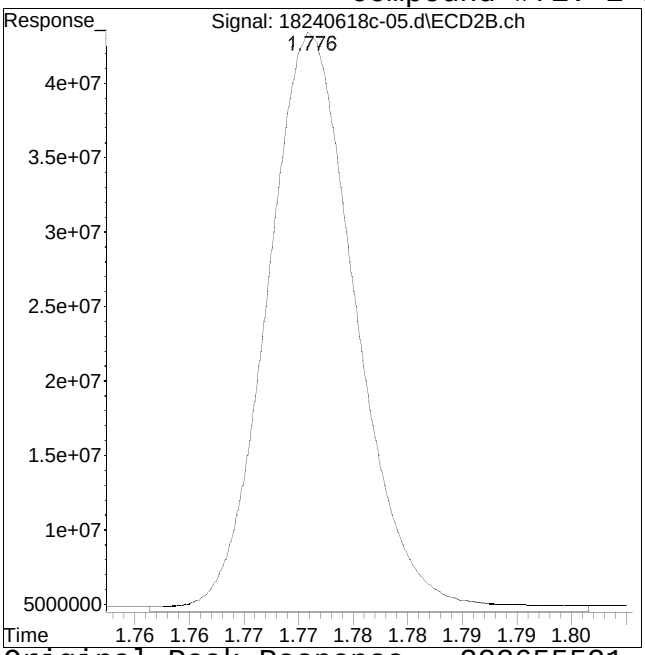
Manual Peak Response = 456168411 M4

M4 = Poor automated baseline construction.

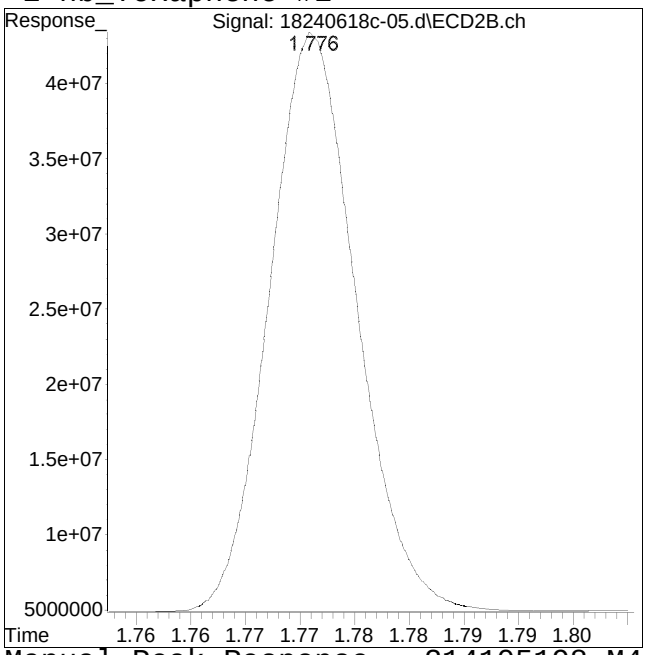
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-05.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:40 Instrument : Pest 18
Sample : wg1935928-3,42,,tox11615 Quant Date : 6/18/2024 1:19 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 223655521



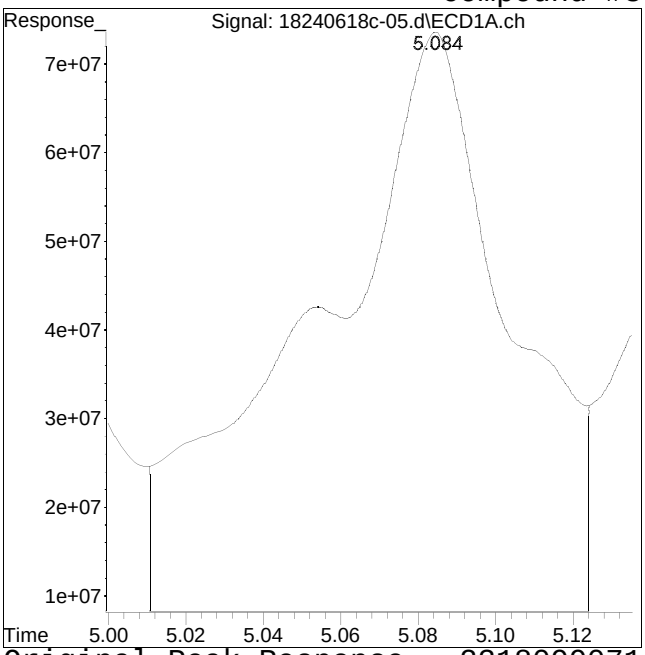
Manual Peak Response = 214105198 M4

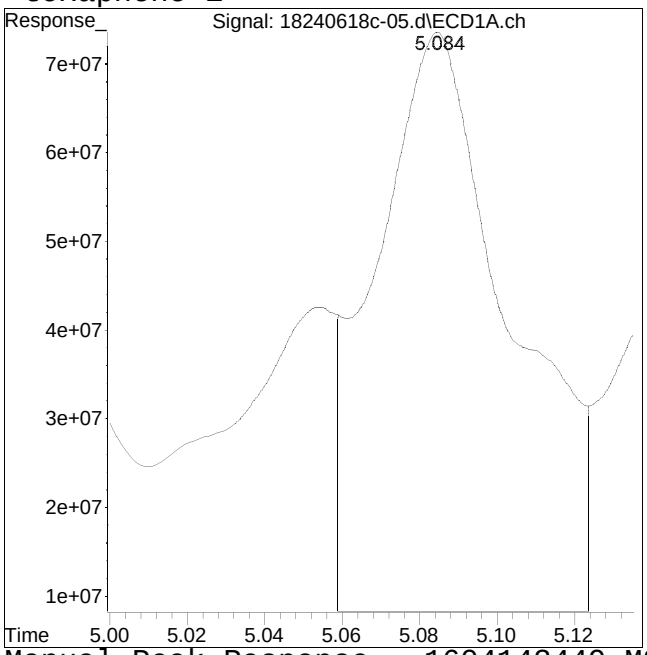
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-05.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:40 Instrument : Pest 18
Sample : wg1935928-3,42,,tox11615 Quant Date : 6/18/2024 1:19 pm

Compound #34: toxaphene-1



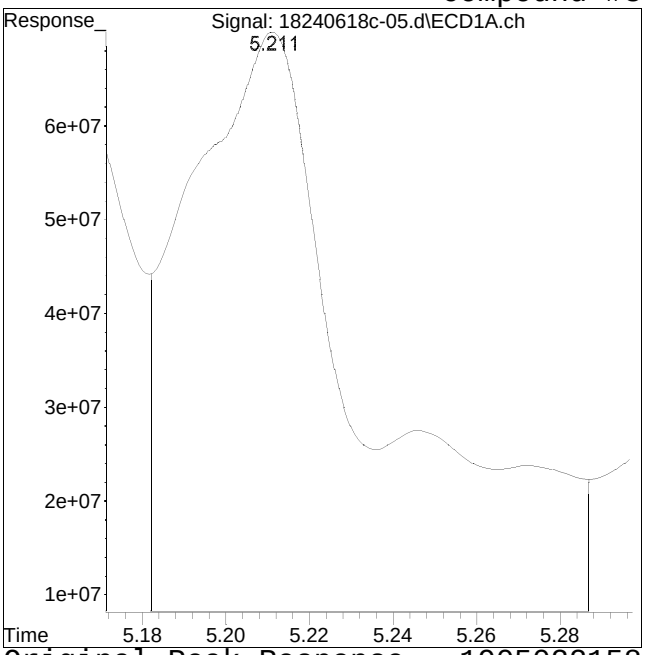


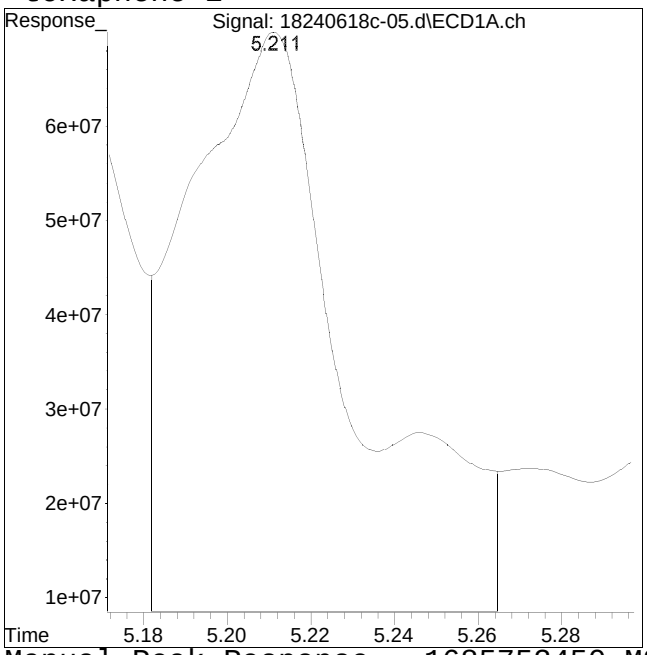
Original Peak Response = 2318099071 Manual Peak Response = 1604143449 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-05.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:40 Instrument : Pest 18
Sample : wg1935928-3,42,,tox11615 Quant Date : 6/18/2024 1:19 pm

Compound #35: toxaphene-2





Original Peak Response = 1905022158 Manual Peak Response = 1685753450 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST15	**Analysis Date**	: 06/17/24 06:29
PEM Standard	: R1841990-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	274848.85632	319360.63252
Endrin	242910049.49749	388701341.68891
4,4'-DDD	976529.56012	1745266.95538
4,4'-DDT	399528945.83491	696678186.54015
Endrin Aldehyde	283843.65615	527269.96975
Endrin Ketone	1044373.08034	1545957.12185

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.544	0.530
DDT	0.312	0.295

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST18	**Analysis Date**	: 06/18/24 12:05
PEM Standard	: R1842774-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	0	0
Endrin	1117768671.5046	590687258.0196
4,4'-DDD	1371782.70246	1984225.7894
4,4'-DDT	1916352616.9573	1139395092.8106
Endrin Aldehyde	2047544.57539	653203.61578
Endrin Ketone	3633279.17094	1716118.1628

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.506	0.400
DDT	0.0715	0.174

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:29 am
Operator : Pest15:akm
Sample : pem15240617a-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:32:19 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.218	1.312	82935537	157.0E6	25.000	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	3.604	4.481	274849	319361	0.060M4	0.042M4
18)	Endrin	4.153	4.931	242.9E6	388.7E6	54.438	52.470M4
19)	4,4'-DDD	4.269	5.055	976530	1745267	0.267	0.279M4
21)	4,4'-DDT	4.569	5.334	399.5E6	696.7E6	108.172	101.371
22)	Endrin Aldeh	4.825	5.430	283844	527270	0.085	0.092M4
26)	Endrin Keton	5.449	6.073	1044373	1545957	0.240	0.218M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:29 am
Operator : Pest15:akm
Sample : pem15240617a-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:32:19 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

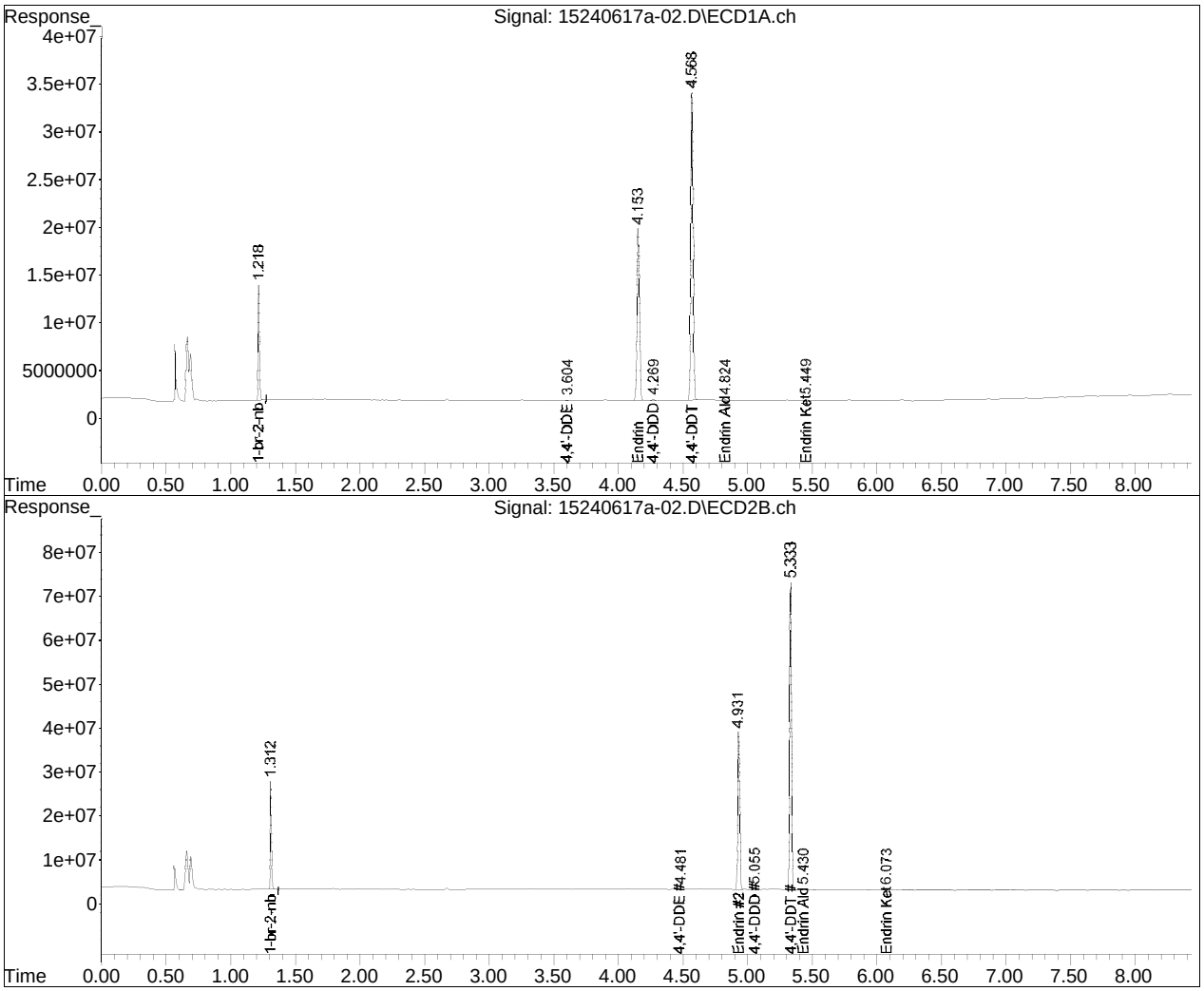
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 6:29 am
Operator : Pest15:akm
Sample : pem15240617a-01,42,, deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935124,,ical21192
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 07:32:19 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

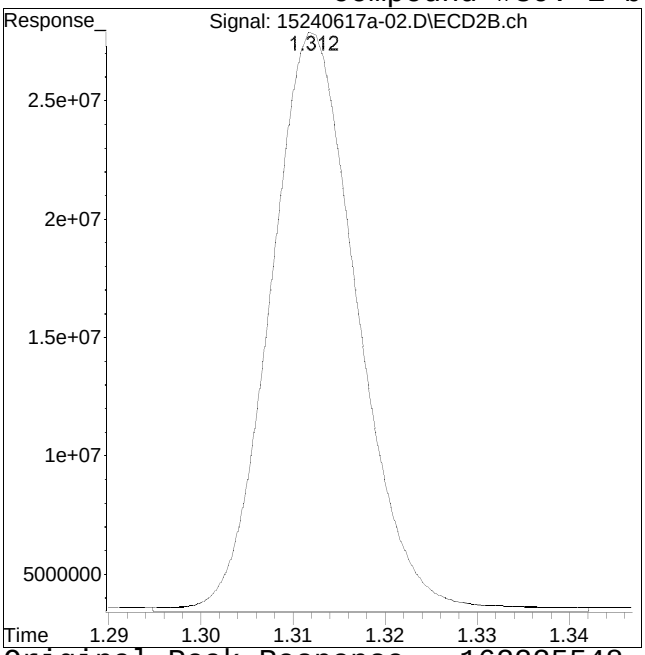
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

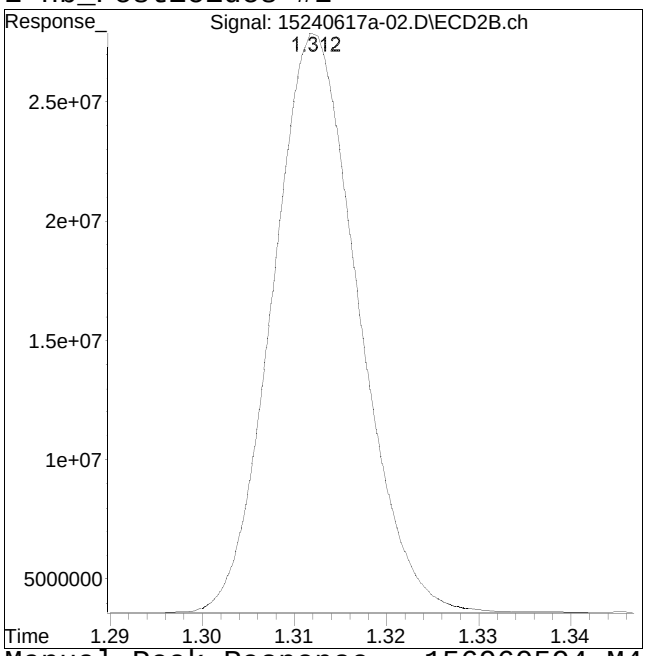


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #39: 1-br-2-nb_Pesticides #2



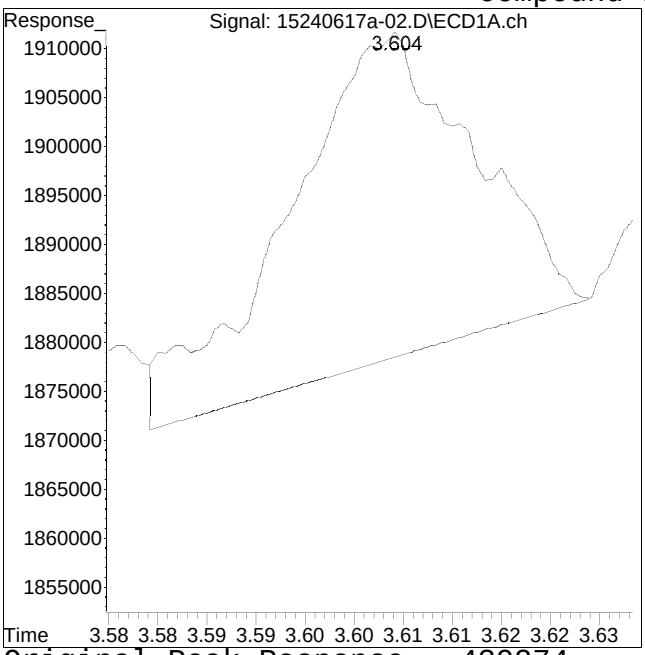


Original Peak Response = 162225548 Manual Peak Response = 156960594 M4
M4 = Poor automated baseline construction.

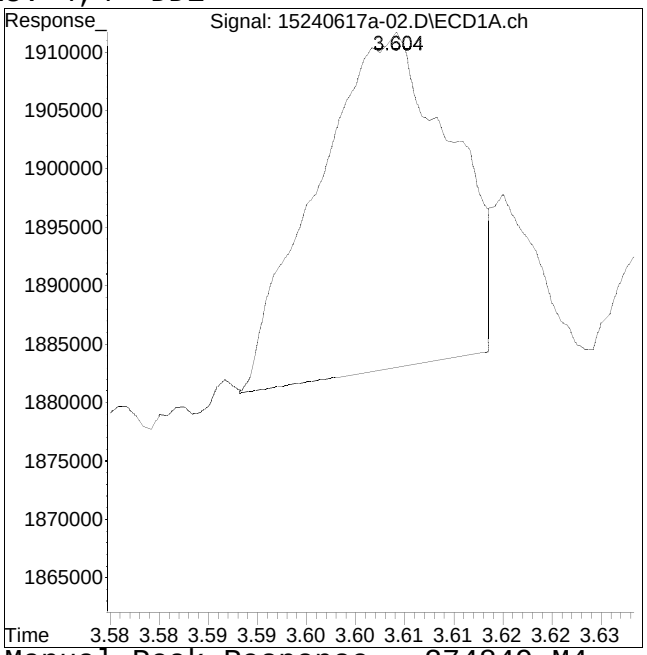
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #15: 4,4'-DDE



Original Peak Response = 439274



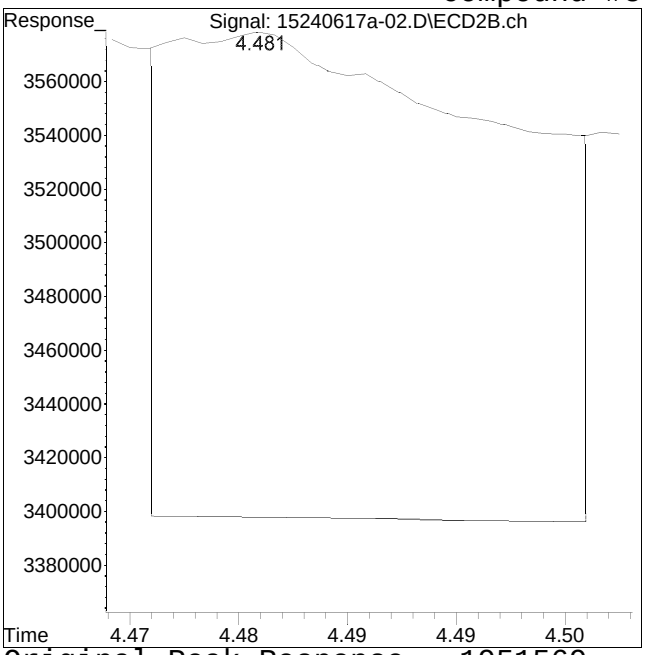
Manual Peak Response = 274849 M4

M4 = Poor automated baseline construction.

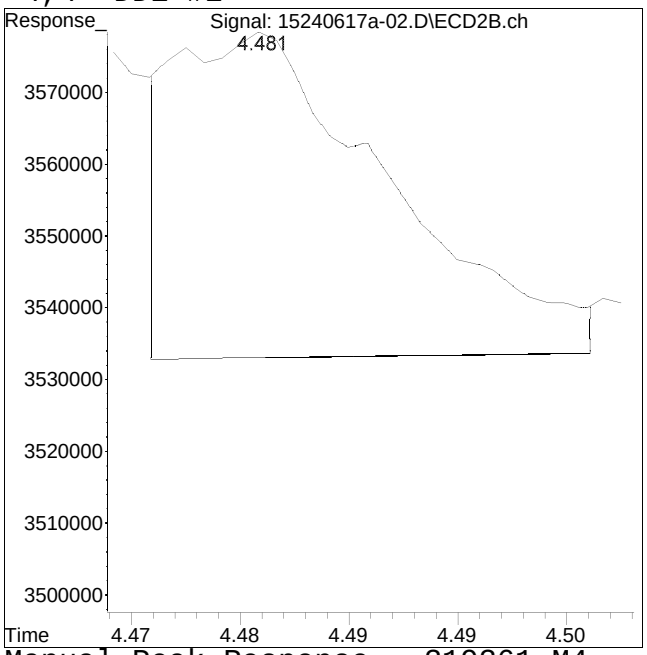
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 1951569



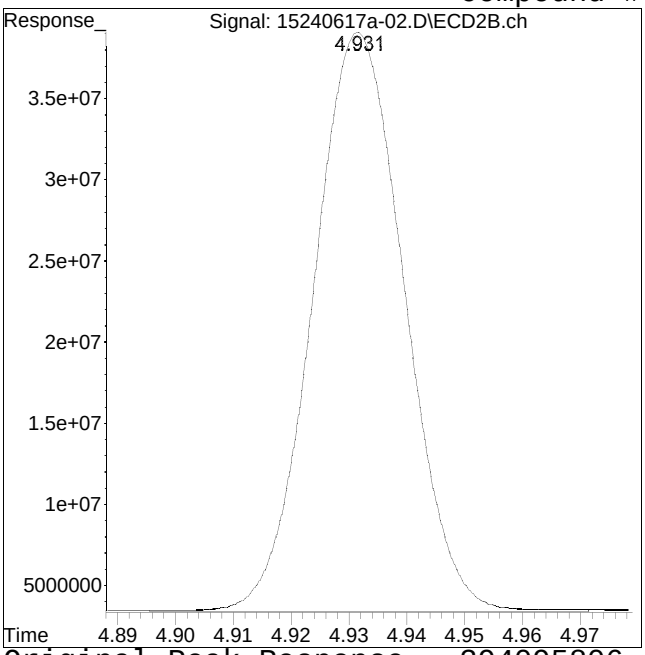
Manual Peak Response = 319361 M4

M4 = Poor automated baseline construction.

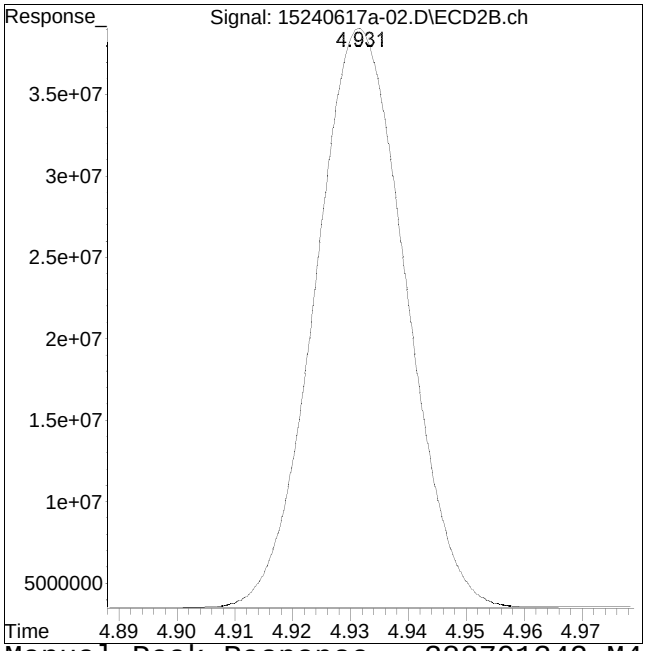
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #56: Endrin #2



Original Peak Response = 394095806



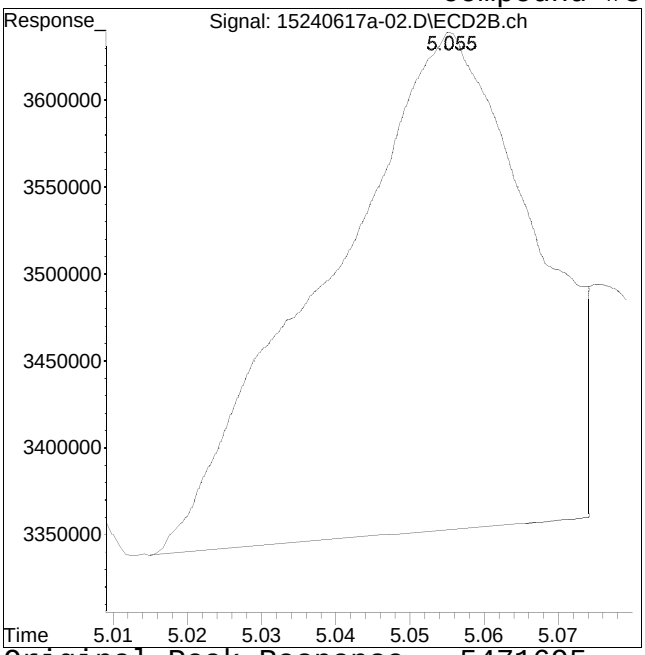
Manual Peak Response = 388701342 M4

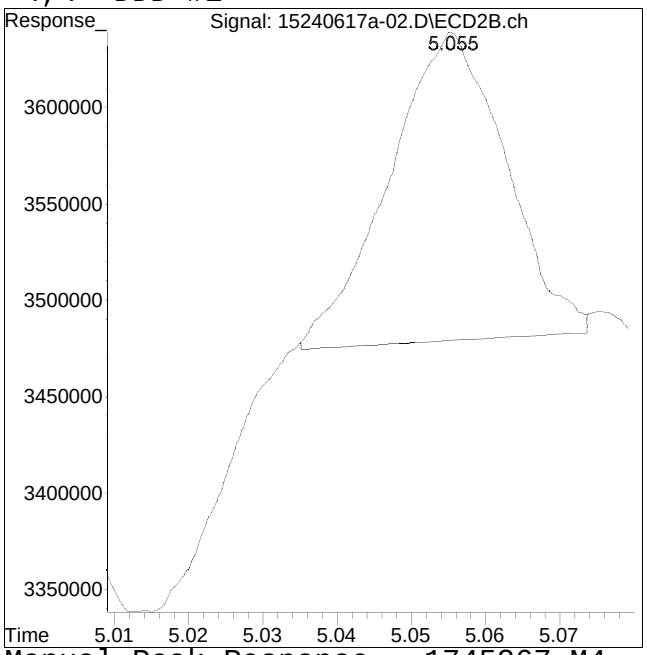
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #57: 4,4'-DDD #2



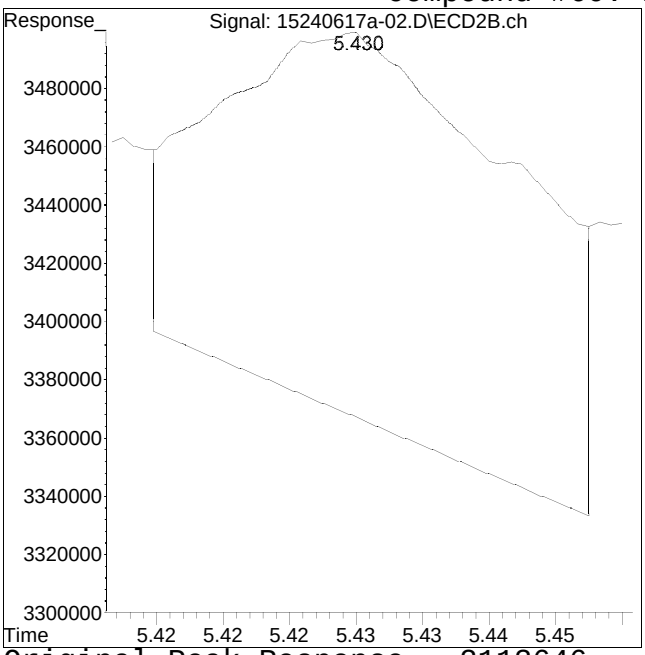


Original Peak Response = 5471695 Manual Peak Response = 1745267 M4
M4 = Poor automated baseline construction.

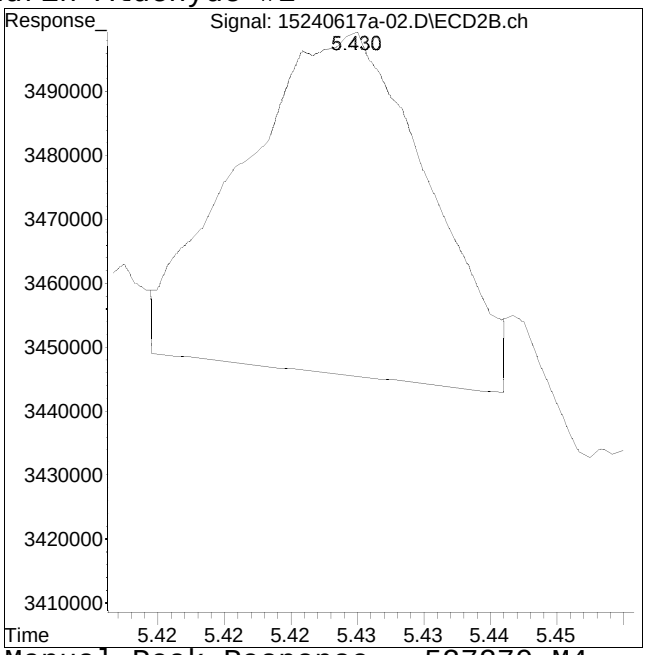
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2113646



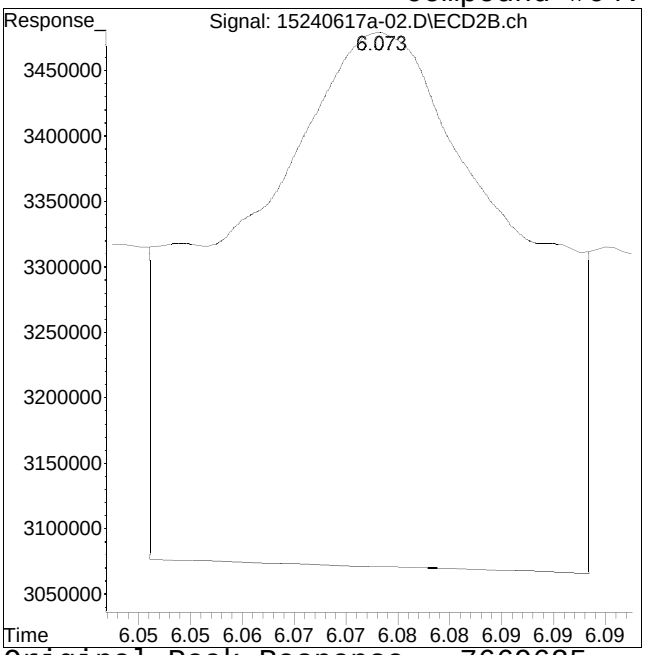
Manual Peak Response = 527270 M4

M4 = Poor automated baseline construction.

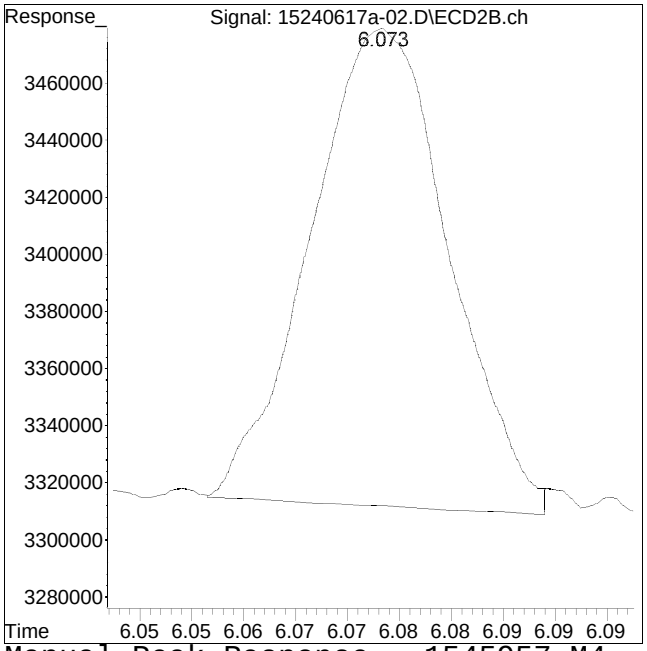
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-02.D Operator : Pest15:akm
Date Inj'd : 6/17/2024 6:29 am Instrument : Pest 15
Sample : pem15240617a-01,42,, deg11Quant Date : 6/17/2024 7:32 am

Compound #64: Endrin Ketone #2



Original Peak Response = 7669625



Manual Peak Response = 1545957 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:05
Operator : PEST18:akm
Sample : pem18240618c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:20:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.719	1.776	441.3E6	216.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.844	5.460	1117.8E6	590.7E6	59.837M4	69.574M4
19)	4,4'-DDD	4.967	5.598	1371783	1984226	0.093M4	0.275M4
D							
21)	4,4'-DDT	5.263	5.883	1916.4E6	1139.4E6	118.682M4	136.996M4
22)	Endrin Aldeh	5.518	5.978	2047545	653204	N.D. M4	N.D. M4
26)	Endrin Keton	6.142	6.629	3633279	1716118	0.205M4	0.196M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:05
Operator : PEST18:akm
Sample : pem18240618c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:20:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

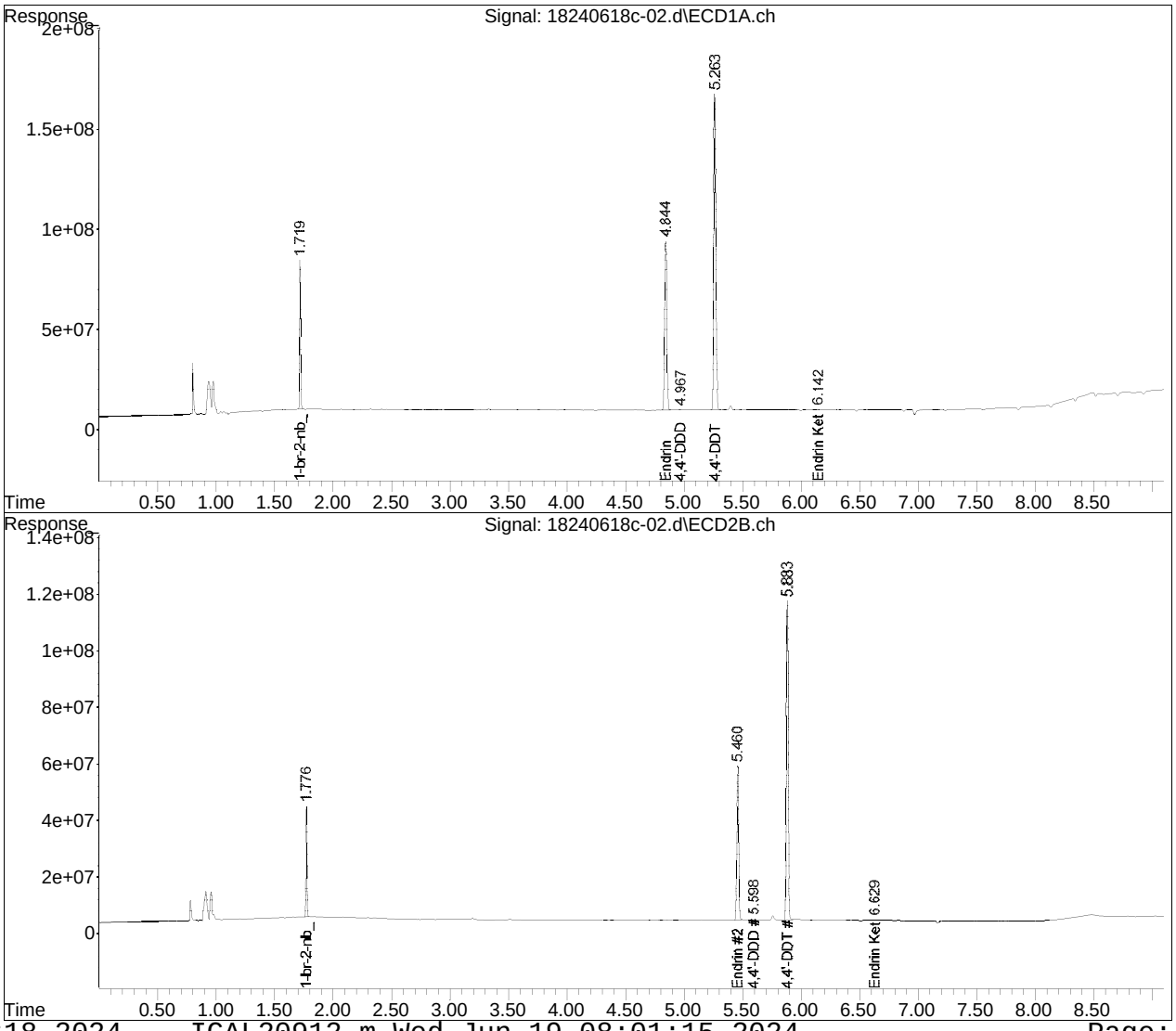
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 12:05
Operator : PEST18:akm
Sample : pem18240618c-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1935928,,ical20912
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 13:20:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

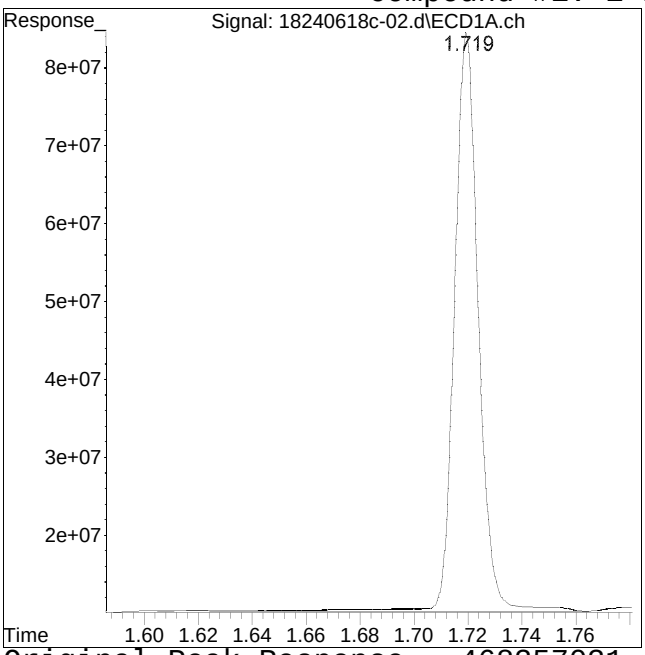
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



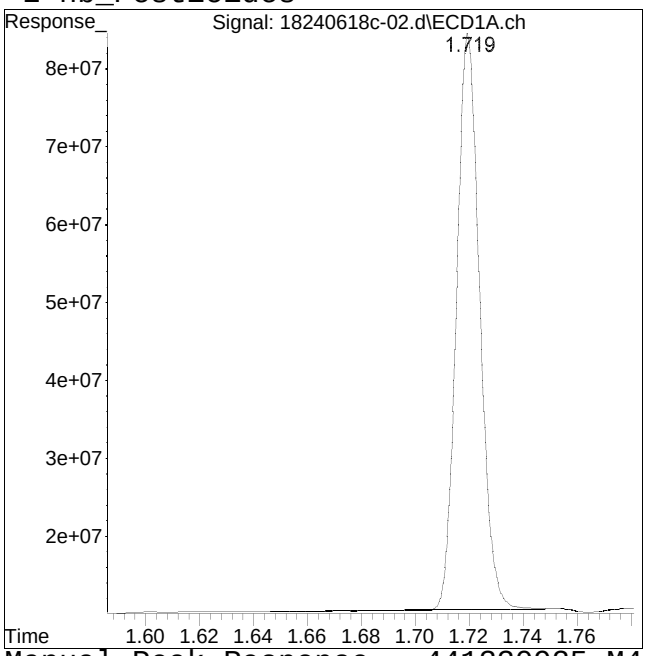
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 468357031



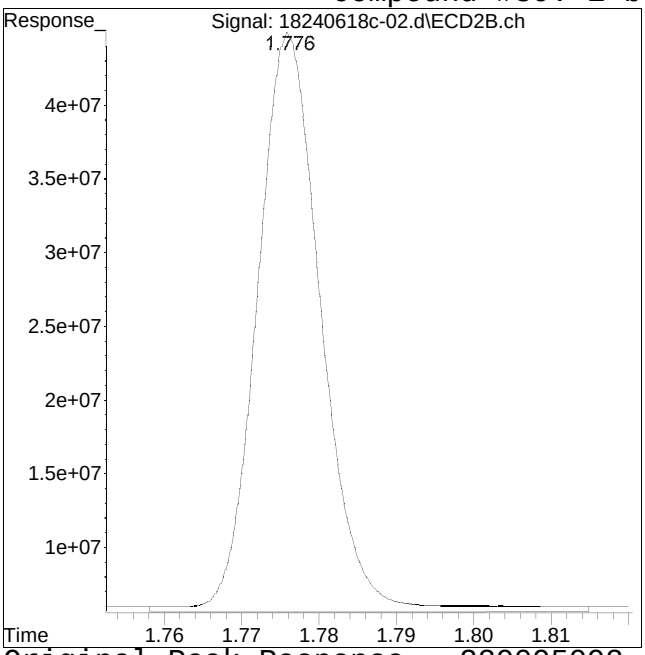
Manual Peak Response = 441330925 M4

M4 = Poor automated baseline construction.

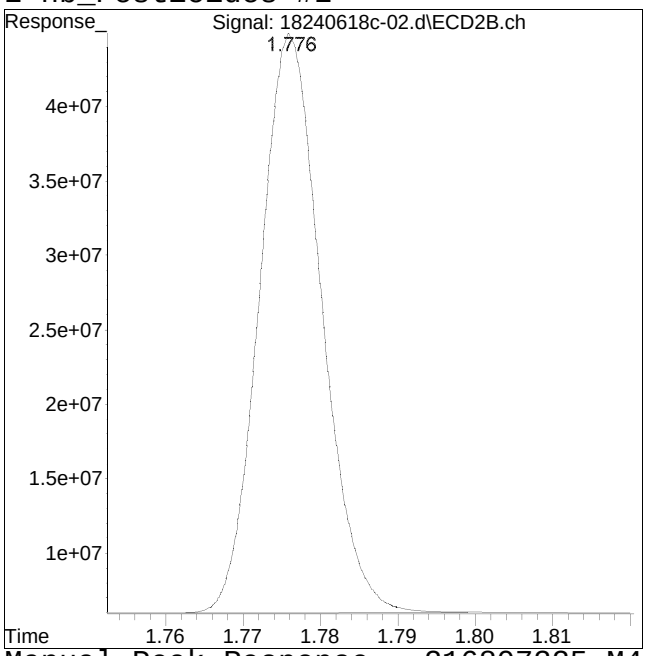
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 229095992



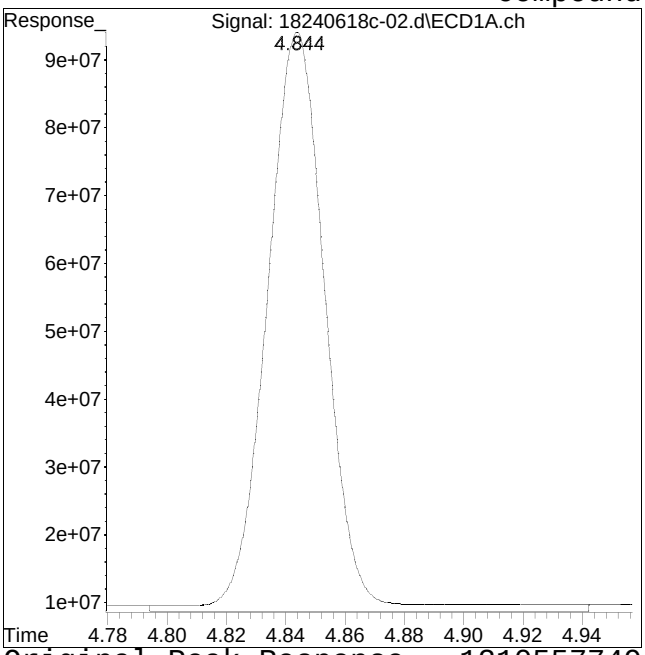
Manual Peak Response = 216807325 M4

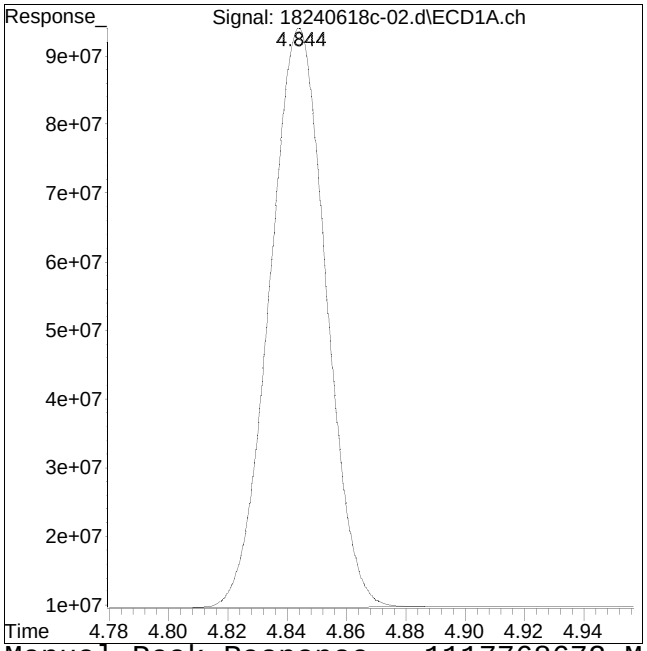
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #18: Endrin



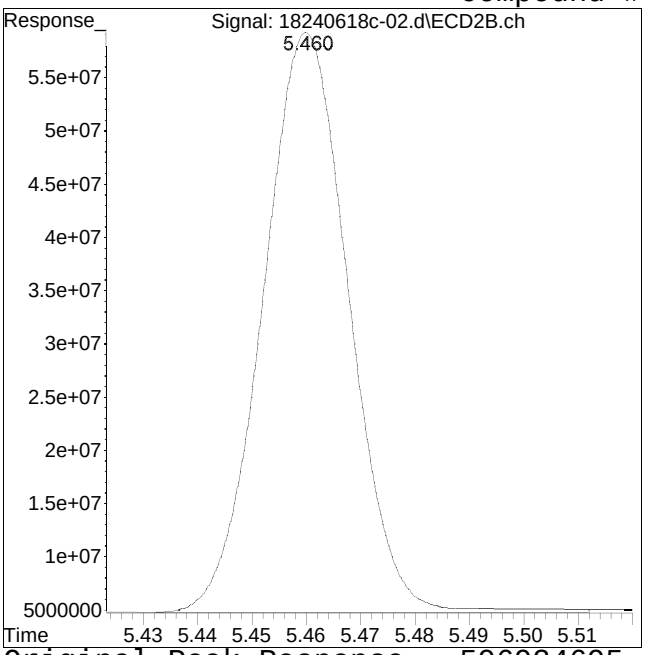


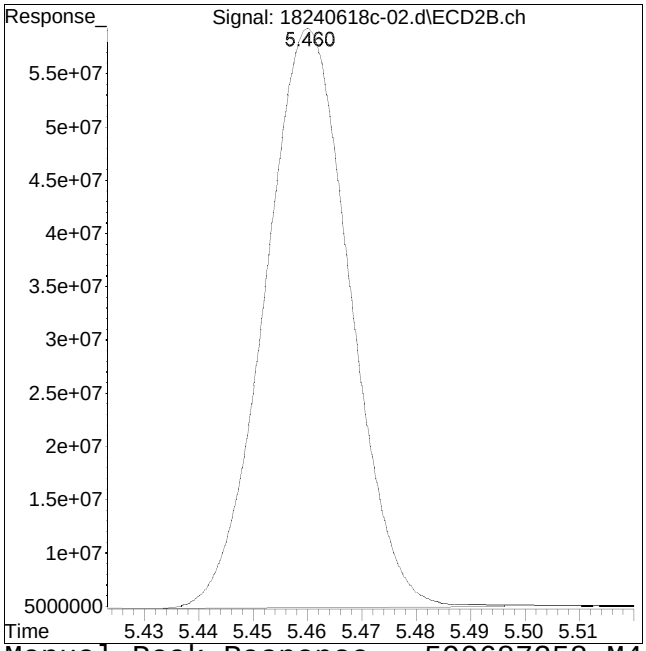
Original Peak Response = 1210557749 Manual Peak Response = 1117768672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #56: Endrin #2



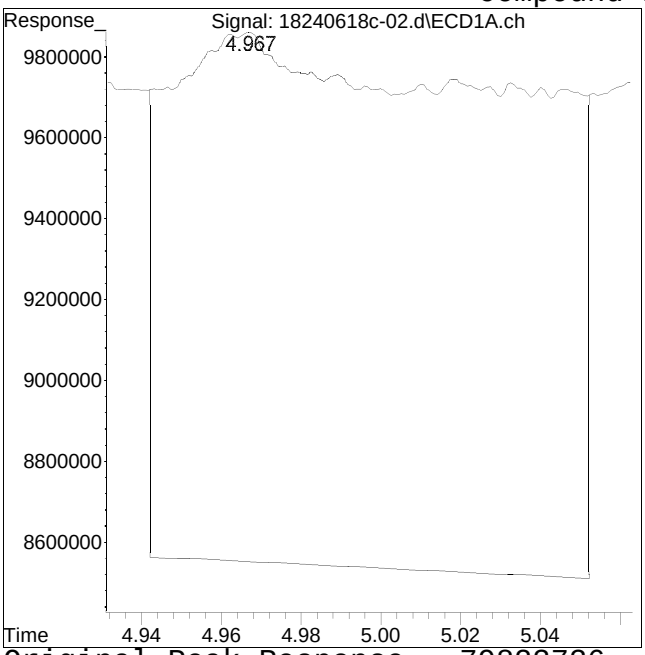


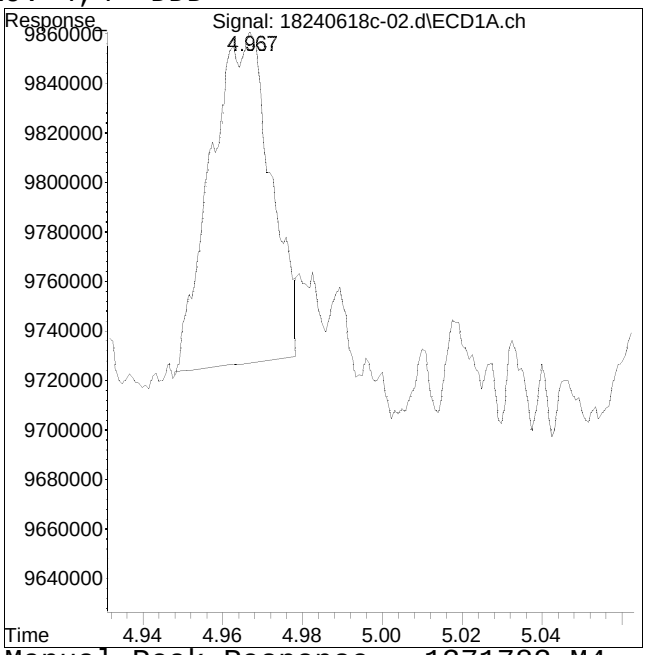
Original Peak Response = 596924695 Manual Peak Response = 590687258 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #19: 4,4'-DDD



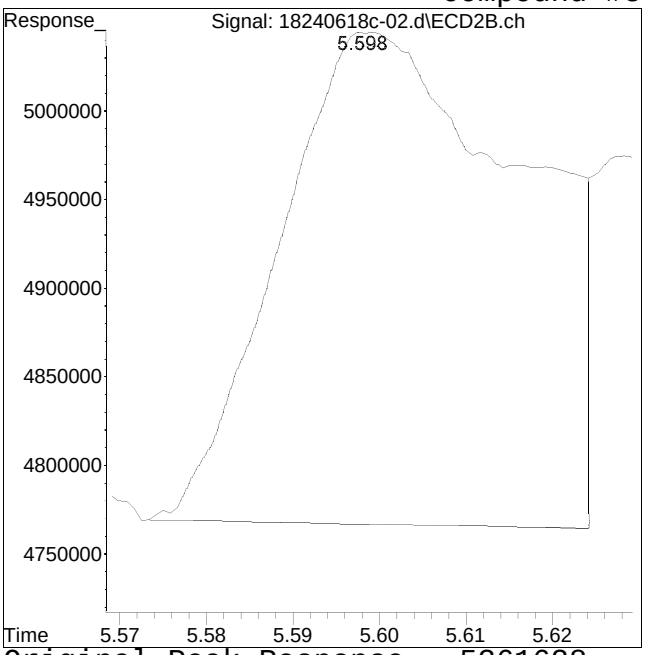


Original Peak Response = 79823736 Manual Peak Response = 1371783 M4
M4 = Poor automated baseline construction.

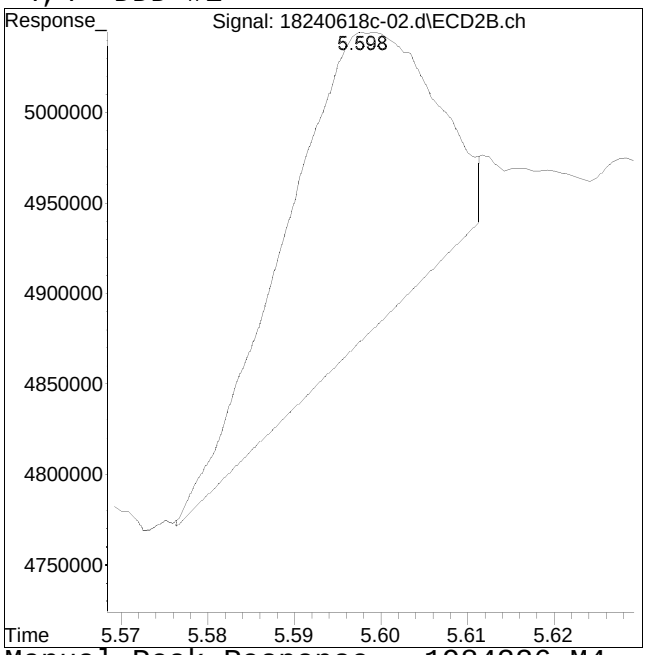
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 5361628



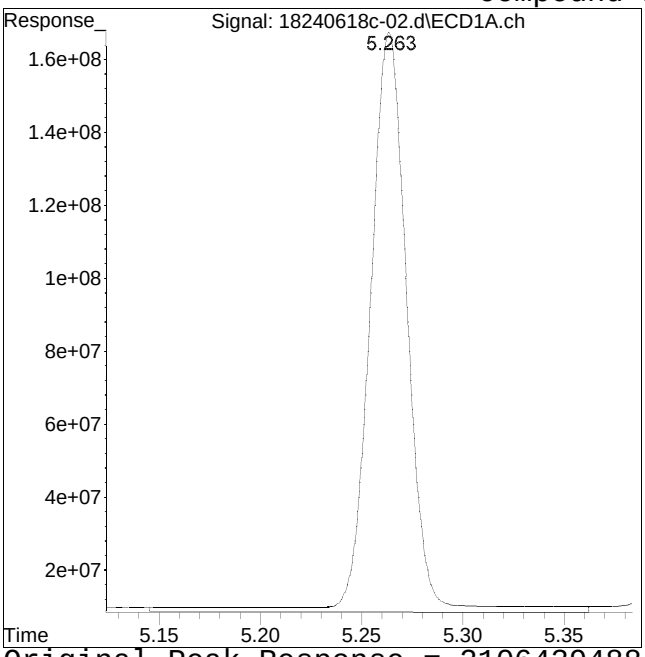
Manual Peak Response = 1984226 M4

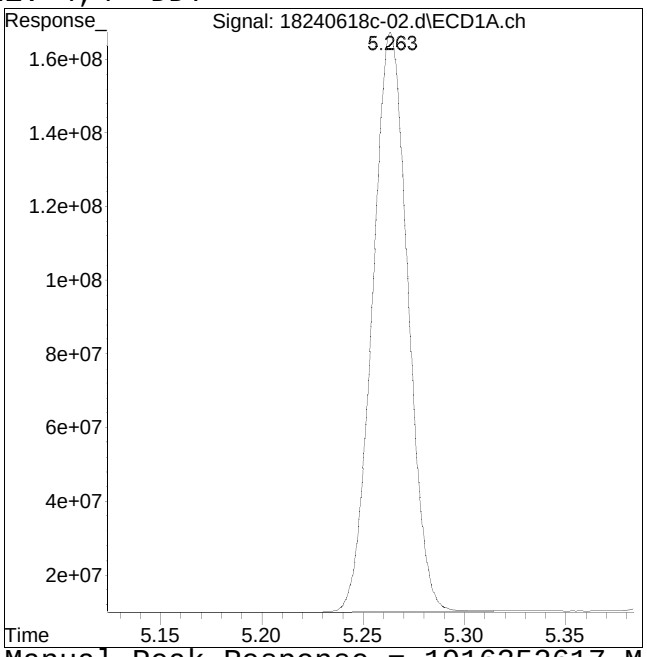
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #21: 4,4'-DDT



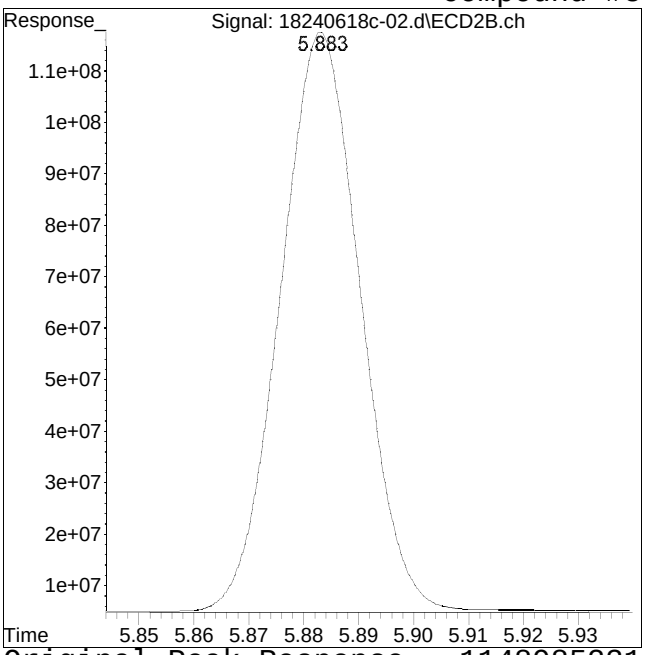


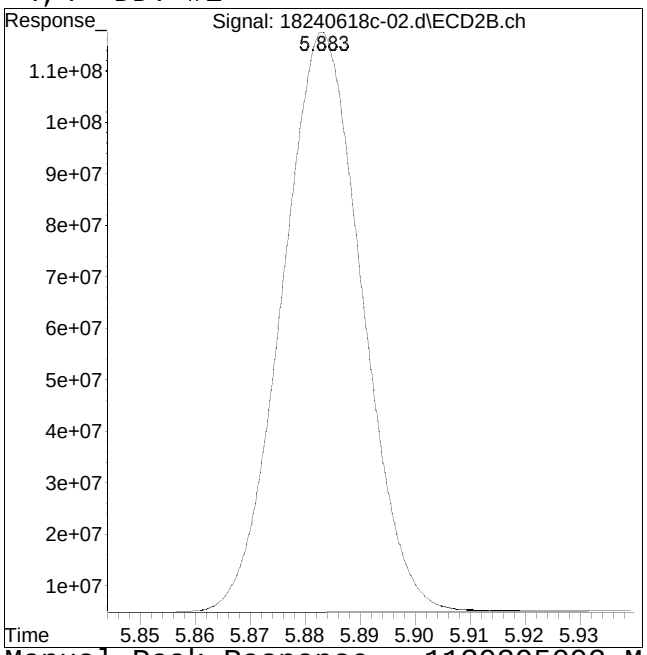
Original Peak Response = 2106439488 Manual Peak Response = 1916352617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #59: 4,4'-DDT #2



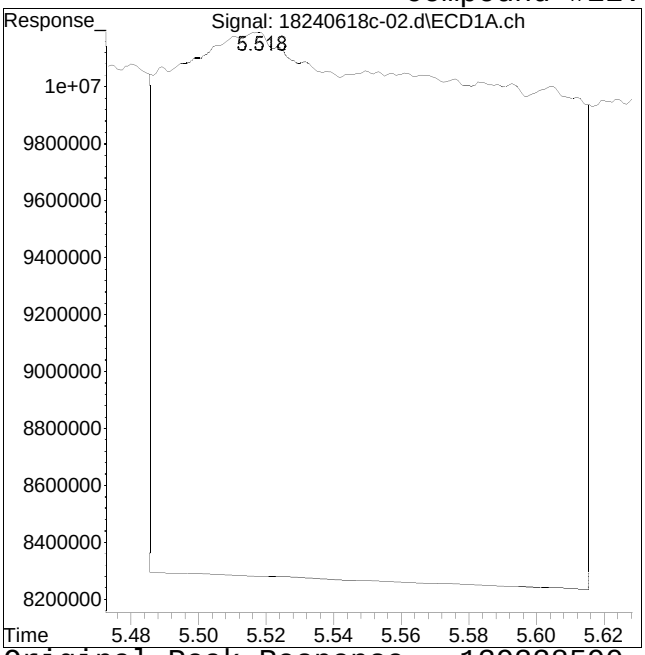


Original Peak Response = 1148985231 Manual Peak Response = 1139395093 M4
M4 = Poor automated baseline construction.

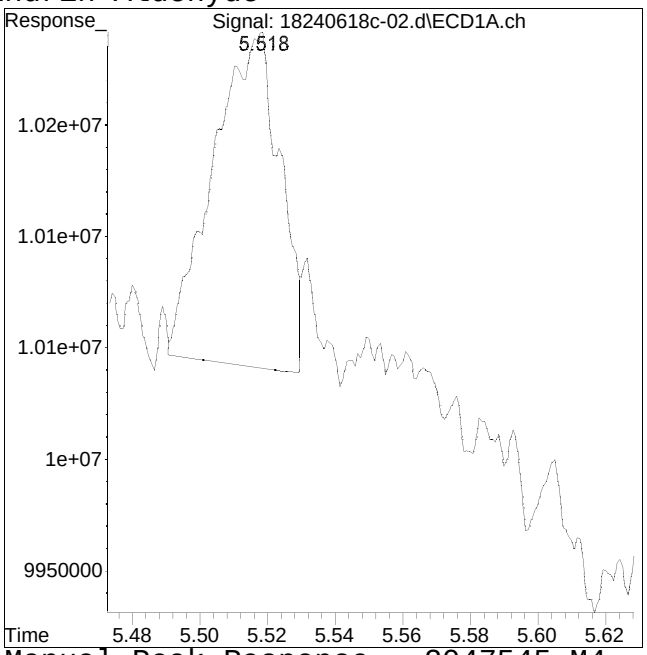
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 139338590



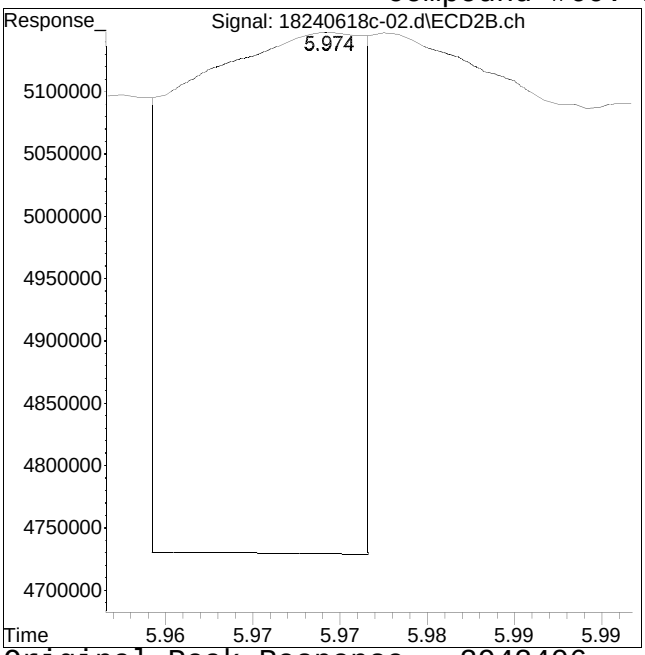
Manual Peak Response = 2047545 M4

M4 = Poor automated baseline construction.

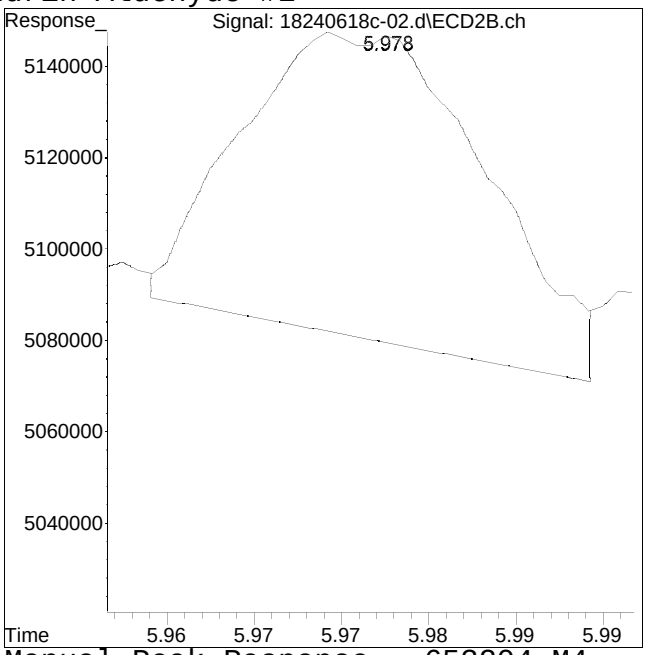
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2942406



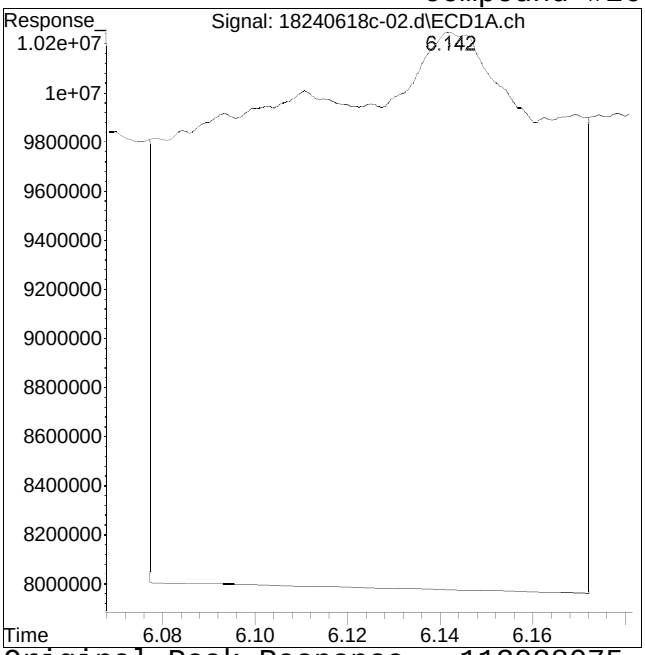
Manual Peak Response = 653204 M4

M4 = Poor automated baseline construction.

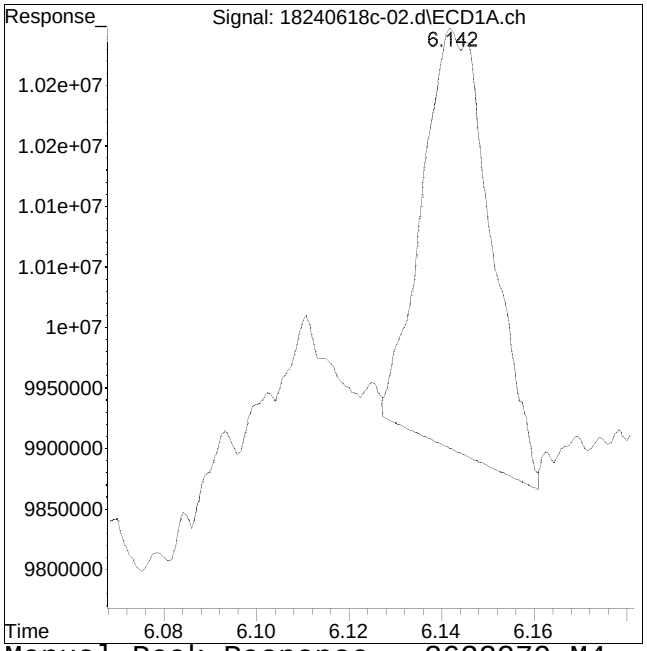
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #26: Endrin Ketone



Original Peak Response = 113028075



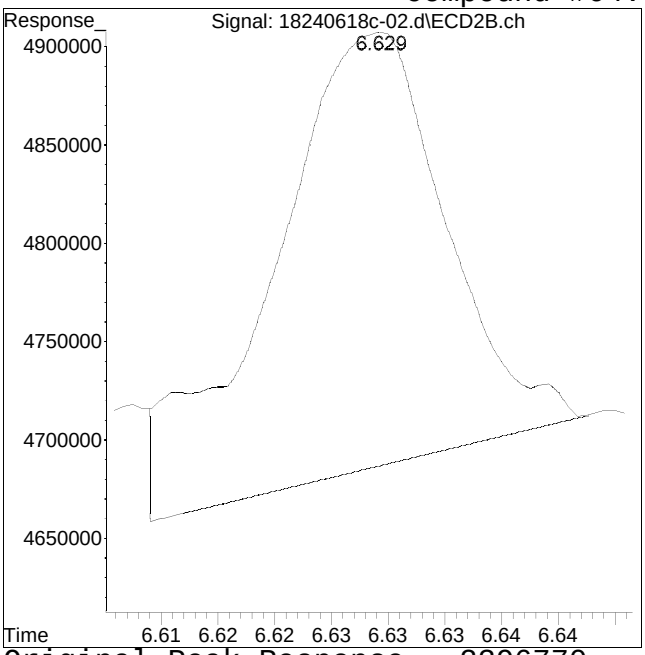
Manual Peak Response = 3633279 M4

M4 = Poor automated baseline construction.

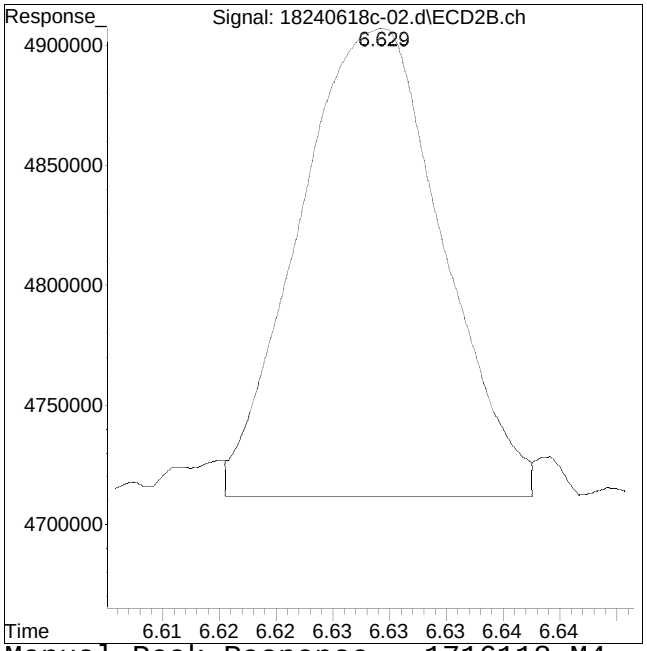
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-02.d Operator : PEST18:akm
Date Inj'd : 6/18/2024 12:05 Instrument : Pest 18
Sample : pem18240618c-01,42,,deg115Quant Date : 6/18/2024 1:20 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 2396770



Manual Peak Response = 1716118 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2433035**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:09 am
Operator : Pest15:ejl
Sample : WG1934990-1,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:11 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.230	1.321	99510913	180.3E6	25.000	25.000
	Standard Area 1 : #1 = 93207096				Recovery = 106.76%		
	Standard Area 1 : #2 = 165237787				Recovery = 109.14%		
28) i	1-br-2-nb_Ch	1.230	1.321	99510913	180.3E6	25.000	25.000
33) i	1-br-2-nb_To	1.230	1.321	99510913	180.3E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.594	1.825	165.8E6	263.6E6	33.842M3	32.464M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	67.68%	64.93%
27) s	Decachlorobi	6.267	6.940	158.5E6	203.0E6	37.204	33.122M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	74.41%	66.24%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:09 am
Operator : Pest15:ejl
Sample : WG1934990-1,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:11 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

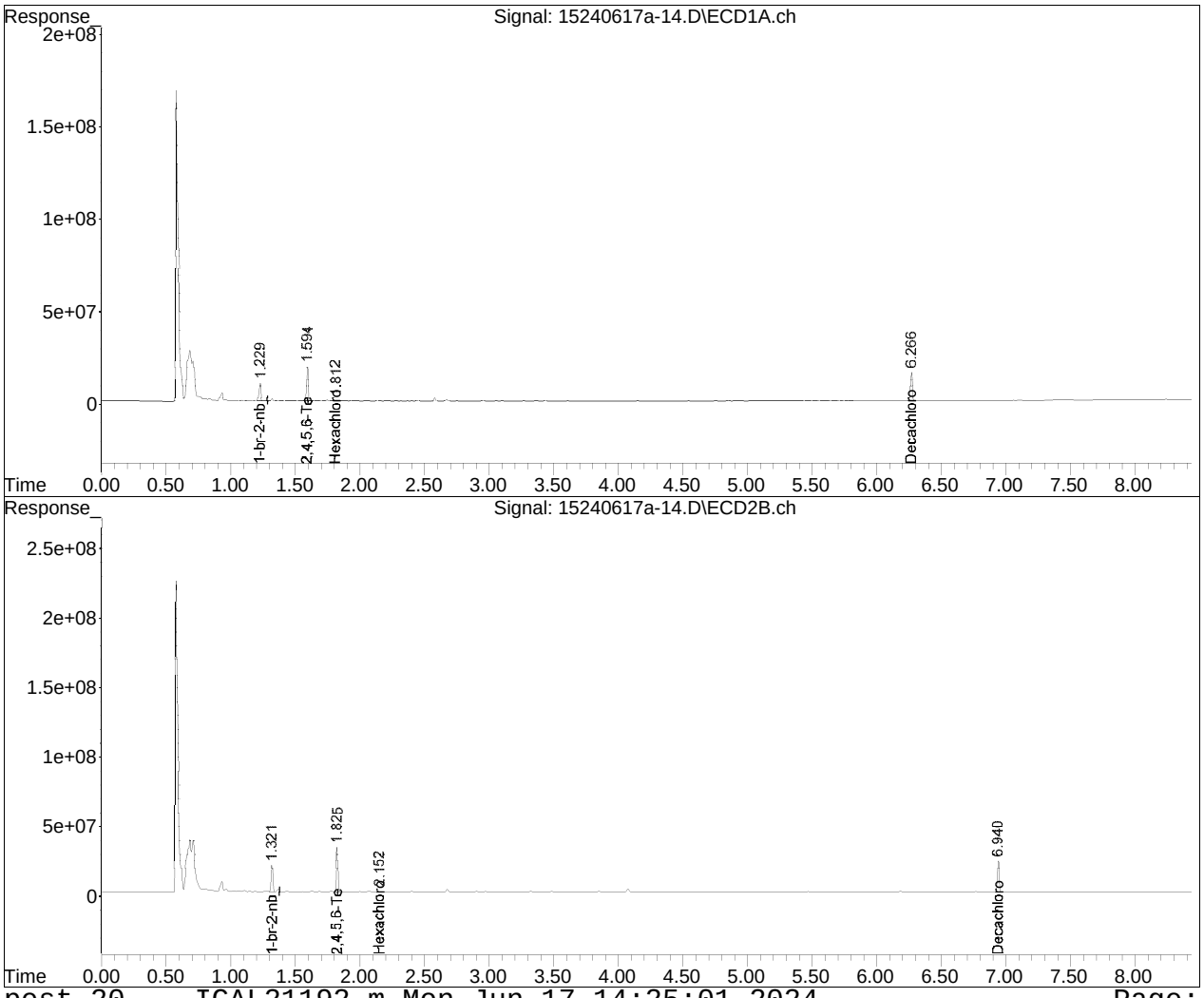
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\15240617a-06.D•

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-14.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:09 am
Operator : Pest15:ejl
Sample : WG1934990-1,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:11 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

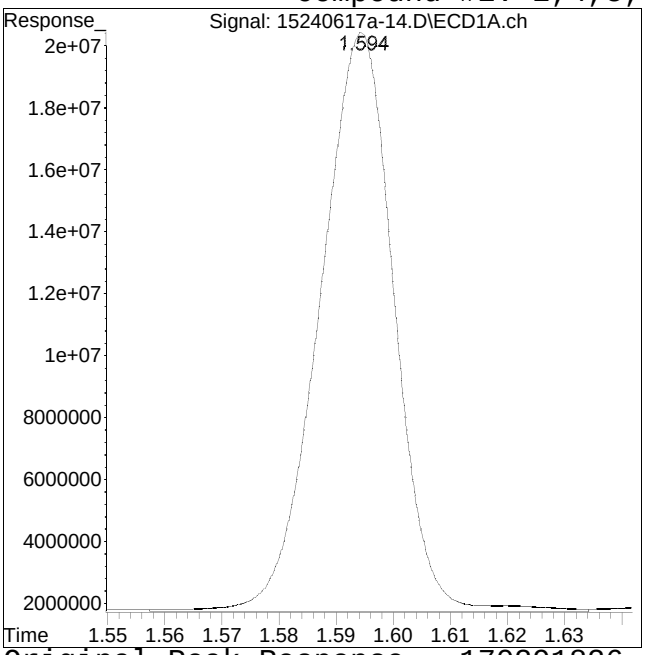
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

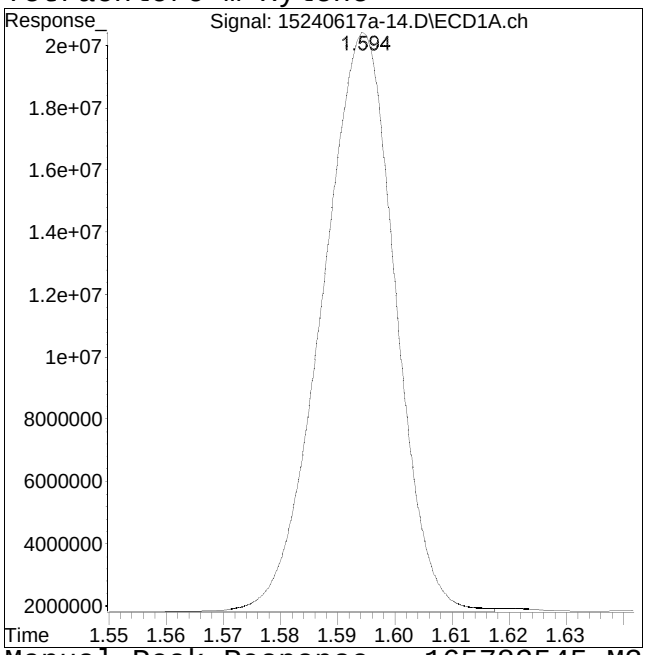


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-14.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:09 am Instrument : Pest 15
Sample : WG1934990-1,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



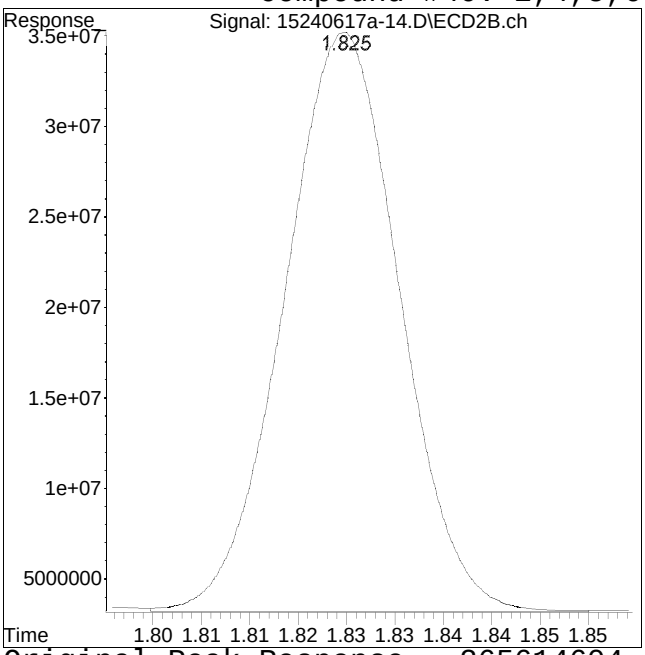


Original Peak Response = 170291826 Manual Peak Response = 165783545 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

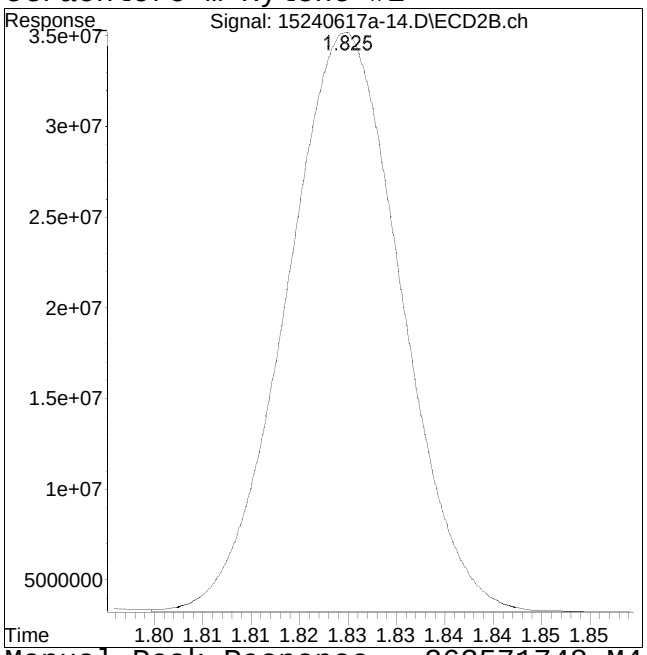
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-14.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:09 am Instrument : Pest 15
Sample : WG1934990-1,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 265614604



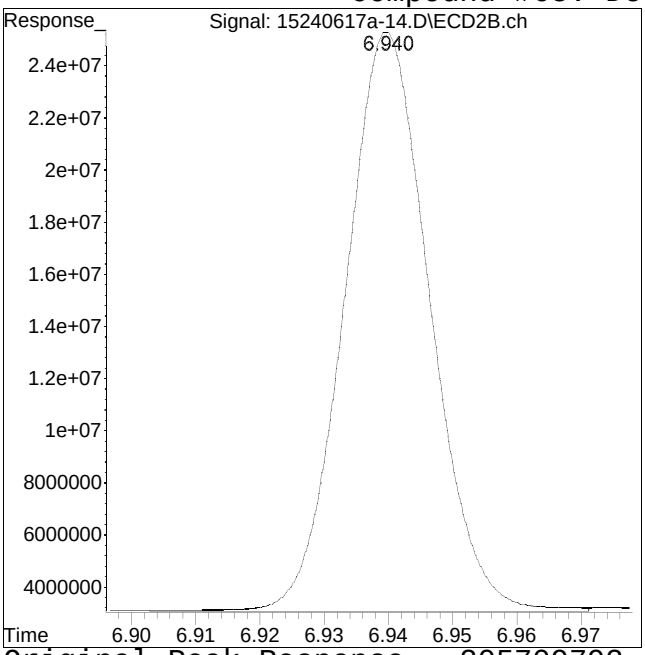
Manual Peak Response = 263571748 M4

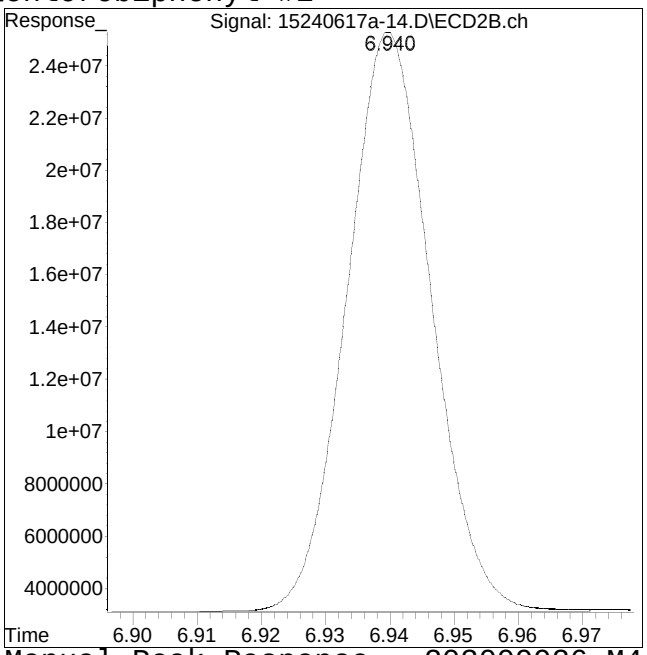
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-14.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:09 am Instrument : Pest 15
Sample : WG1934990-1,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 205709792 Manual Peak Response = 203009926 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:20 am
Operator : Pest15:ejl
Sample : WG1934990-2,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:14 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.220	1.314	89318712	163.3E6	25.000	25.000
	Standard Area 1 : #1 = 93207096				Recovery =	95.83%	
	Standard Area 1 : #2 = 165237787				Recovery =	98.80%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.821	160.0E6	254.7E6	36.383	34.661
	Spiked Amount 50.000	Range 30 - 150			Recovery =	72.77%	69.32%
27) s	Decachlorobi	6.266	6.939	144.2E6	195.7E6	37.705	35.274M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	75.41%	70.55%
Target Compounds							
4)	alpha-BHC	1.910	2.251	232.2E6	399.0E6	43.603	42.756M4
5)	gamma-BHC (l	2.115	2.541	217.3E6	369.0E6	42.429	41.554
6)	beta-BHC	2.173	2.606	105.0E6	167.8E6	40.367	38.758M4
7)	delta-BHC	2.302	2.876	196.3E6	337.8E6	39.179	38.290
8)	Heptachlor	2.464	2.943	200.5E6	346.3E6	40.895M3	41.277
9)	Aldrin	2.707	3.264	192.6E6	321.6E6	40.000	40.197M4
12)	Heptachlor E	3.250	3.885	191.5E6	311.5E6	40.425	39.862
13)	gamma-Chlord	3.374	4.106	194.6E6	315.1E6	43.732	43.538M4
14)	alpha-Chlord	3.508	4.278	190.9E6	307.1E6	37.974	38.399
15)	4,4'-DDE	3.607	4.477	186.1E6	301.0E6	37.720	38.051
16)	Endosulfan I	3.642	4.339	180.1E6	287.1E6	39.247	38.923
17)	Dieldrin	3.901	4.633	204.5E6	327.6E6	43.292	43.386
18)	Endrin	4.156	4.932	196.4E6	303.7E6	40.868	39.420M4
19)	4,4'-DDD	4.272	5.055	162.9E6	260.6E6	41.406	40.069M4
20)	Endosulfan I	4.402	5.131	171.7E6	266.2E6	39.719	38.073M4
21)	4,4'-DDT	4.571	5.334	166.1E6	270.9E6	41.765	37.900M4
22)	Endrin Aldeh	4.826	5.430	117.3E6	179.8E6	32.533	30.112M4

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:20 am
Operator : Pest15:ejl
Sample : WG1934990-2,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:14 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) Methoxychlor	5.070	5.903	95279297	143.1E6	47.026	42.046
25) Endosulfan S	5.223	5.660	155.0E6	241.2E6	36.075	36.026
26) Endrin Keton	5.453	6.074	186.3E6	290.4E6	39.776	39.429
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

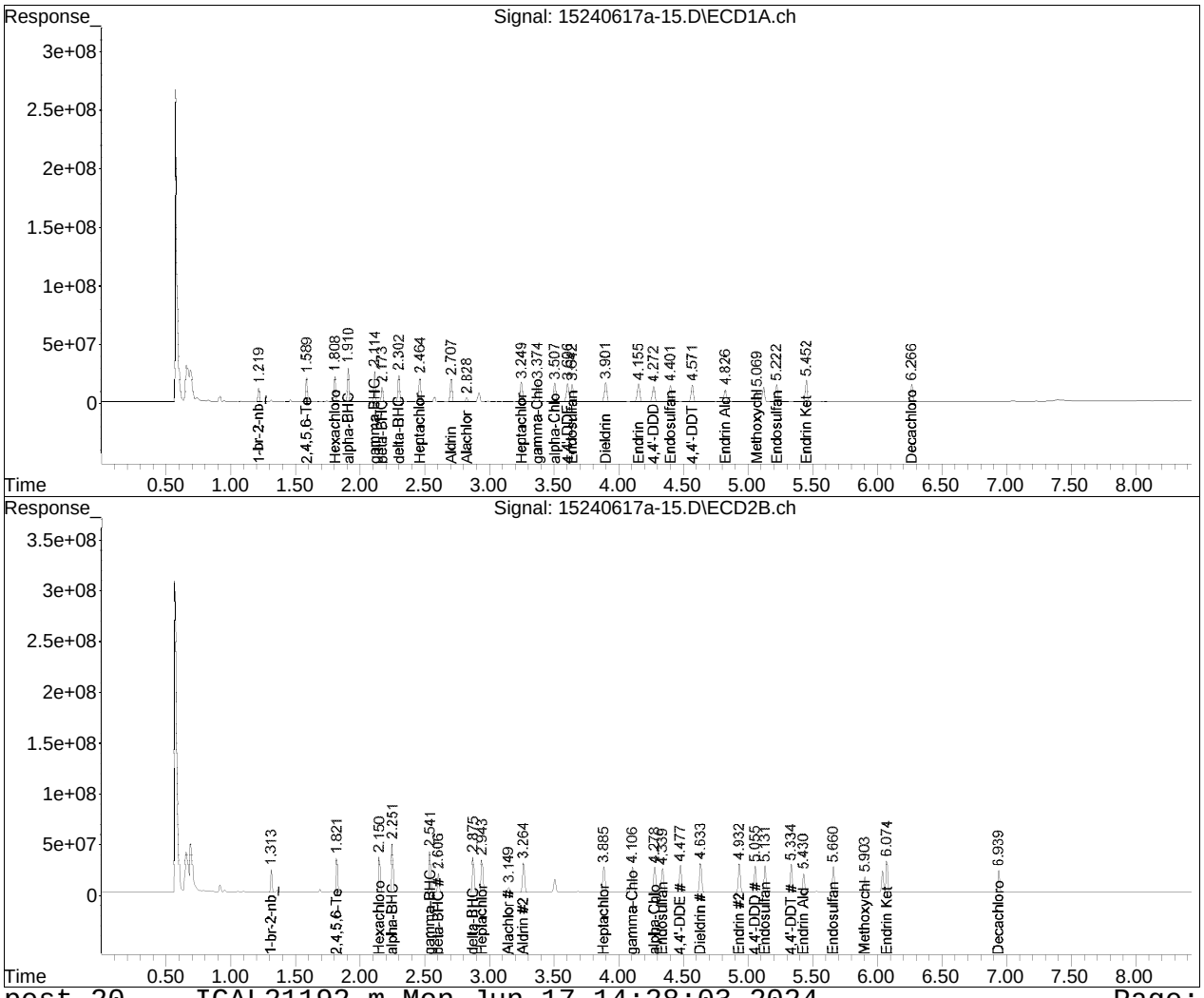
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only5\2024\240617A\15240617a-06.D•

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-15.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:20 am
Operator : Pest15:ejl
Sample : WG1934990-2,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:14 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

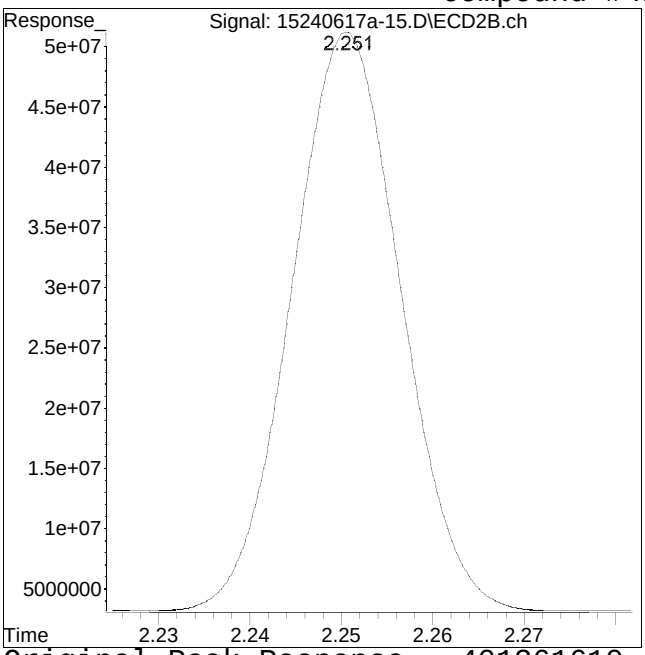
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

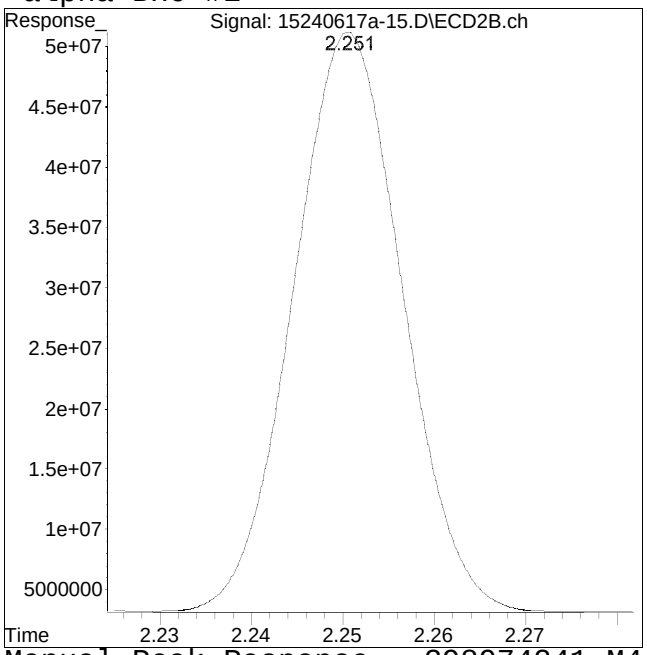


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #42: alpha-BHC #2



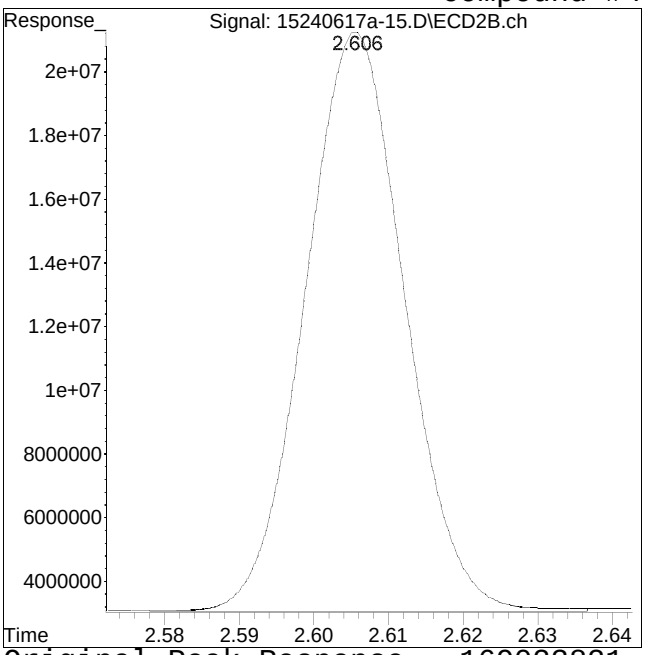


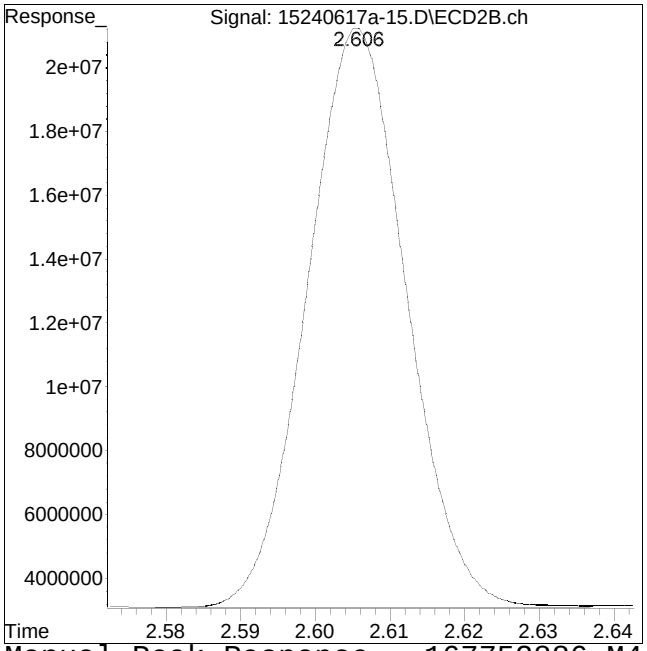
Original Peak Response = 401361610 Manual Peak Response = 398974241 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #44: beta-BHC #2



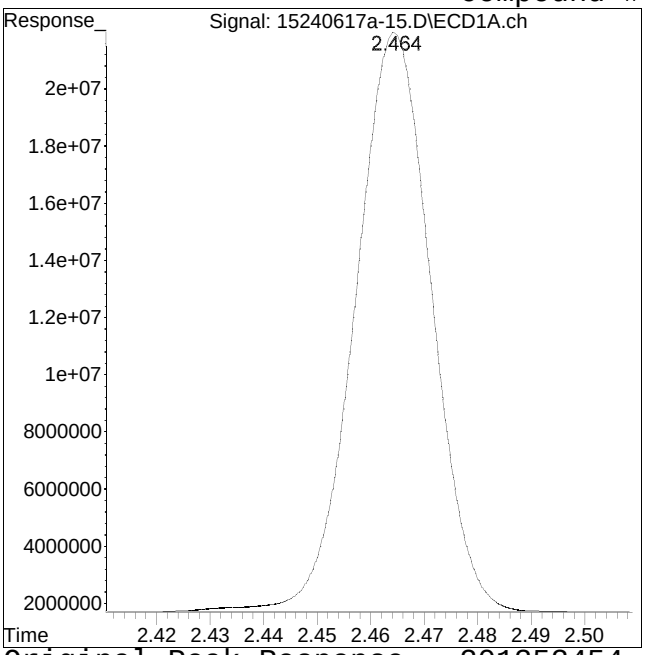


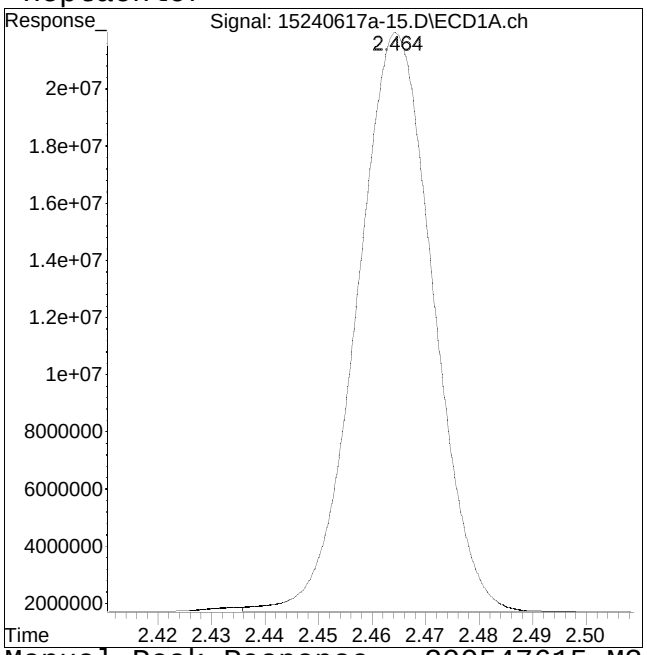
Original Peak Response = 169023821 Manual Peak Response = 167752886 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #8: Heptachlor



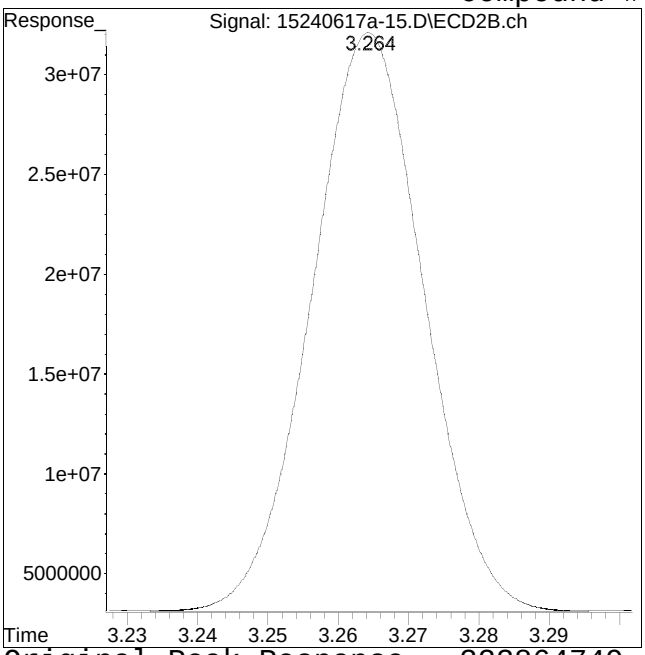


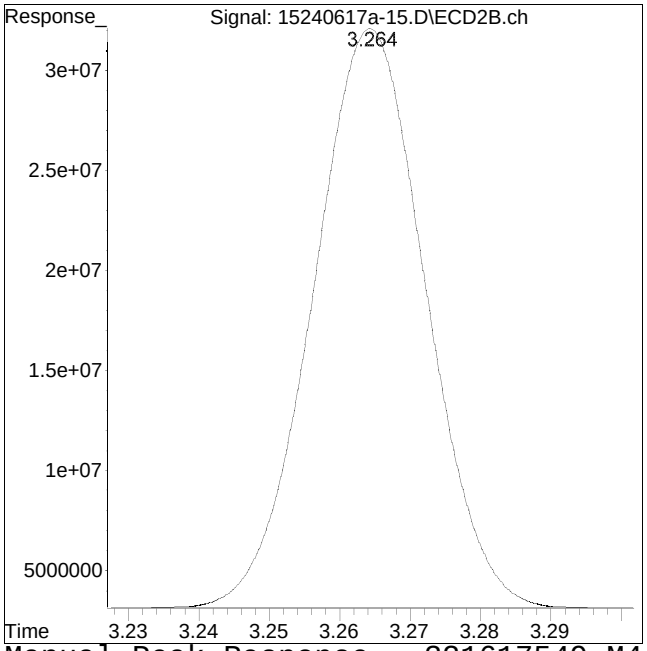
Original Peak Response = 201352454 Manual Peak Response = 200547615 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #47: Aldrin #2



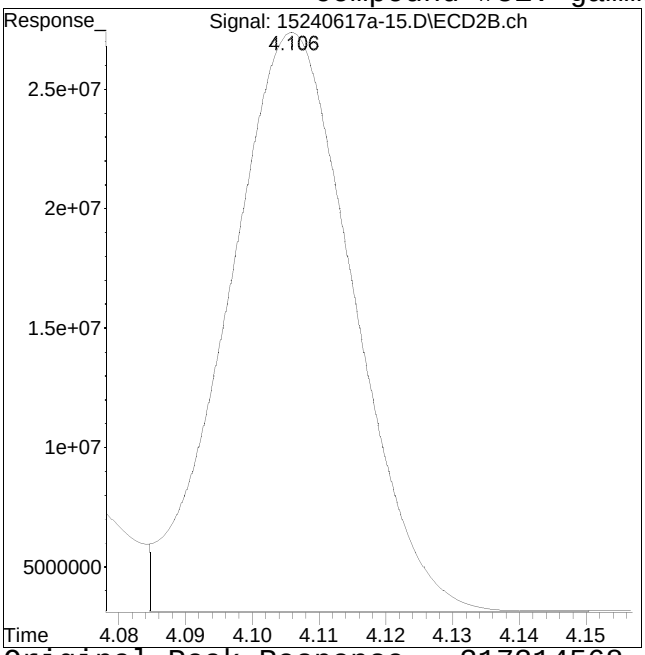


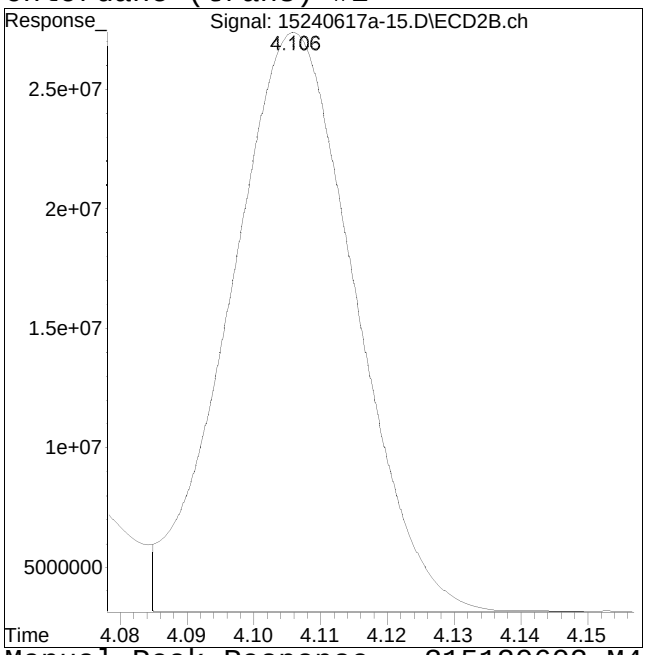
Original Peak Response = 323864749 Manual Peak Response = 321617549 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #51: gamma-Chlordane (trans) #2



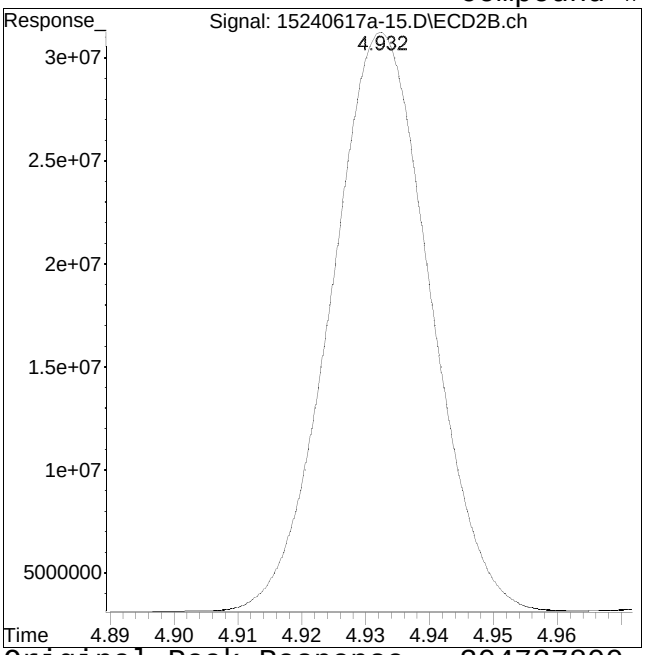


Original Peak Response = 317314568 Manual Peak Response = 315120602 M4
M4 = Poor automated baseline construction.

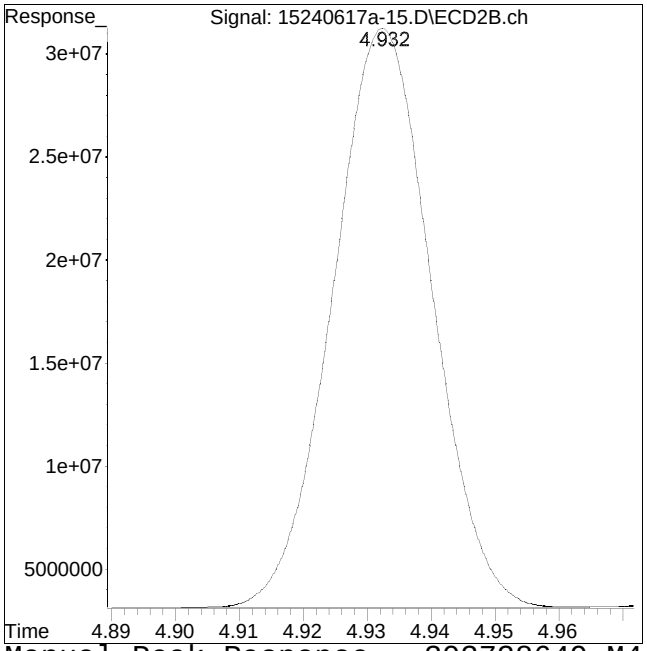
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #56: Endrin #2



Original Peak Response = 304737800



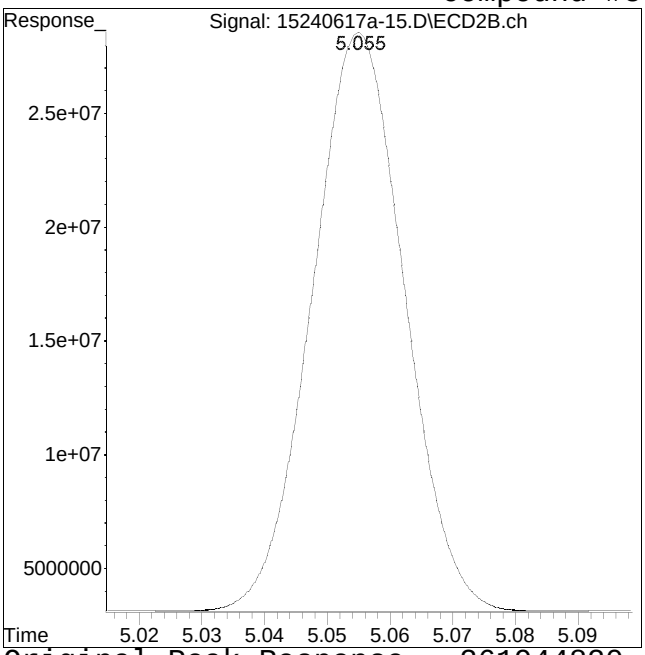
Manual Peak Response = 303738649 M4

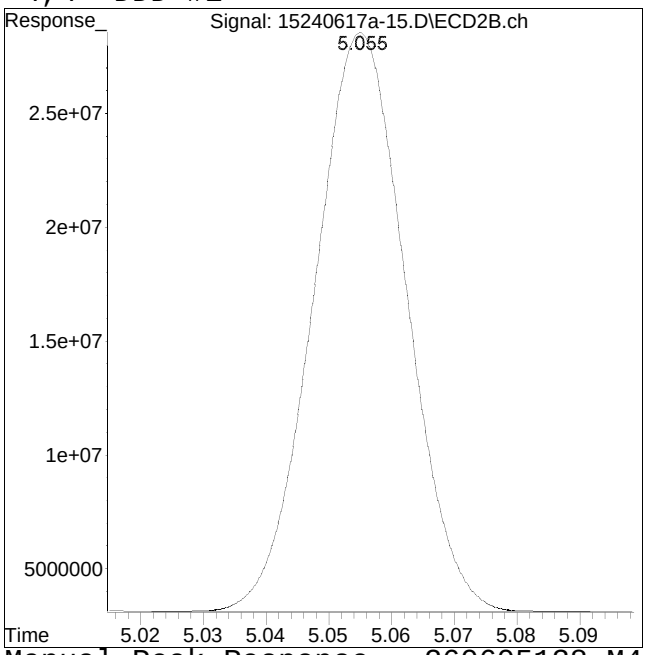
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #57: 4,4'-DDD #2



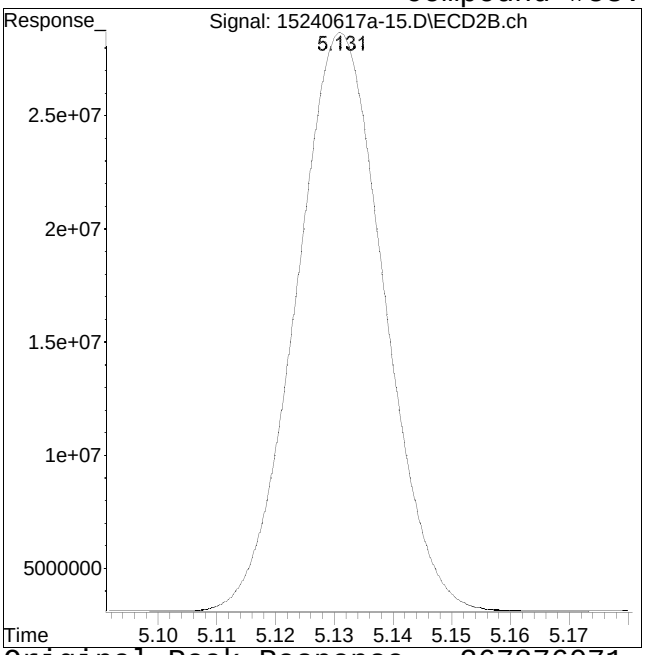


Original Peak Response = 261944820 Manual Peak Response = 260605138 M4
M4 = Poor automated baseline construction.

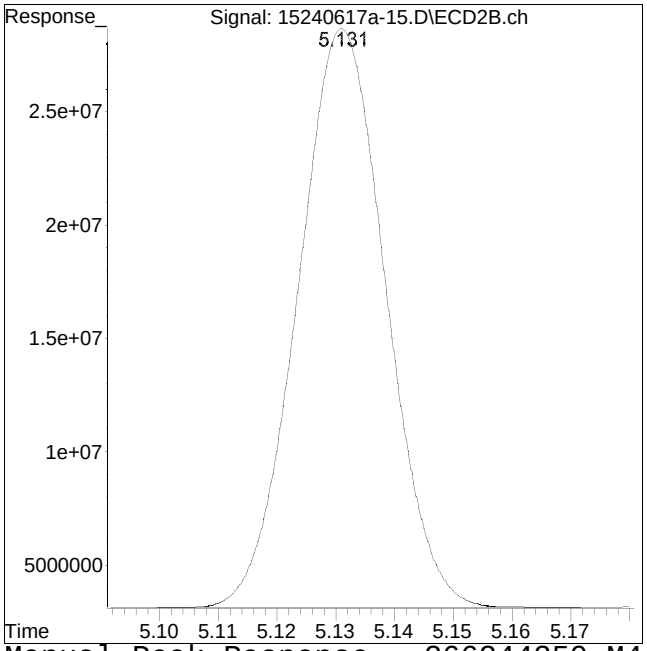
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #58: Endosulfan II #2



Original Peak Response = 267876071

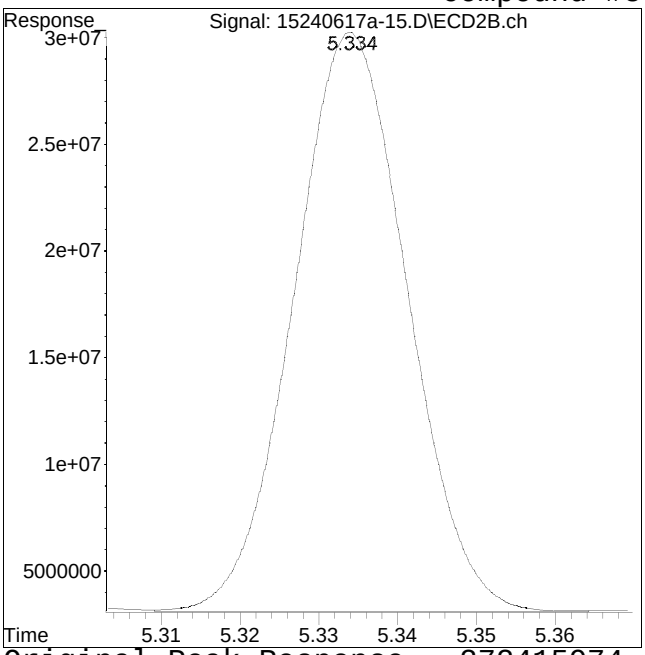


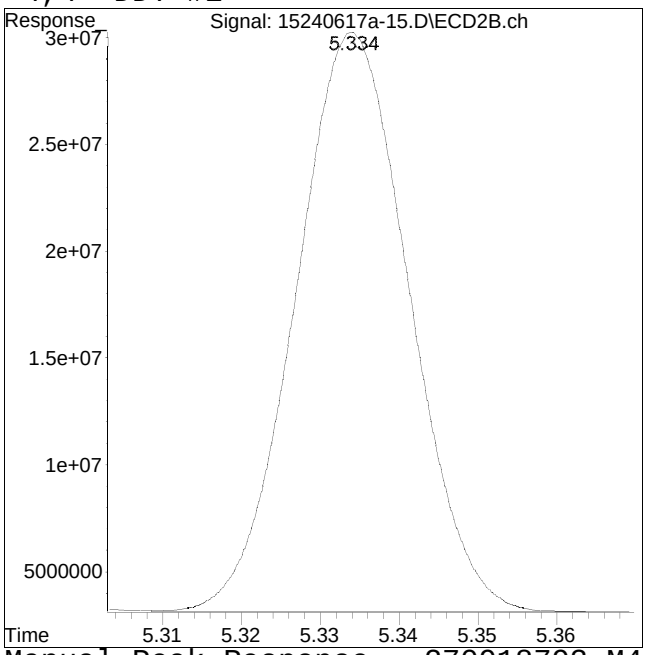
Manual Peak Response = 266244250 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #59: 4,4'-DDT #2



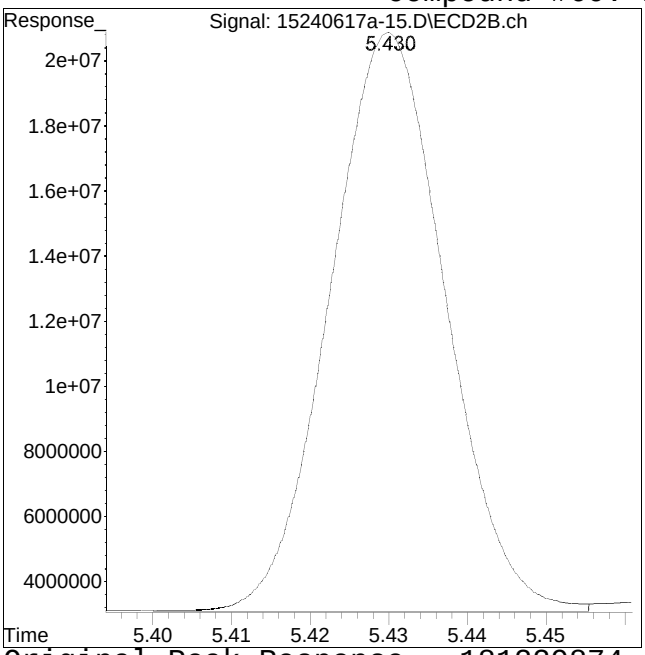


Original Peak Response = 272415974 Manual Peak Response = 270918793 M4
M4 = Poor automated baseline construction.

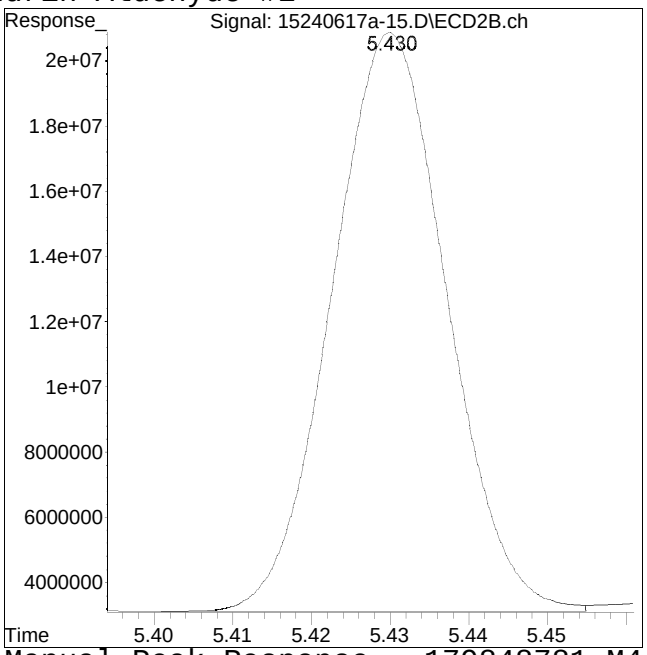
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 181229874



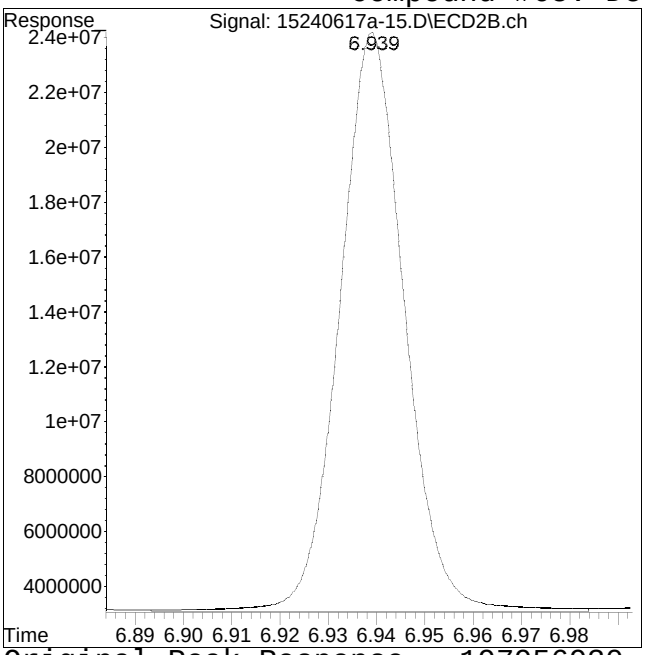
Manual Peak Response = 179848781 M4

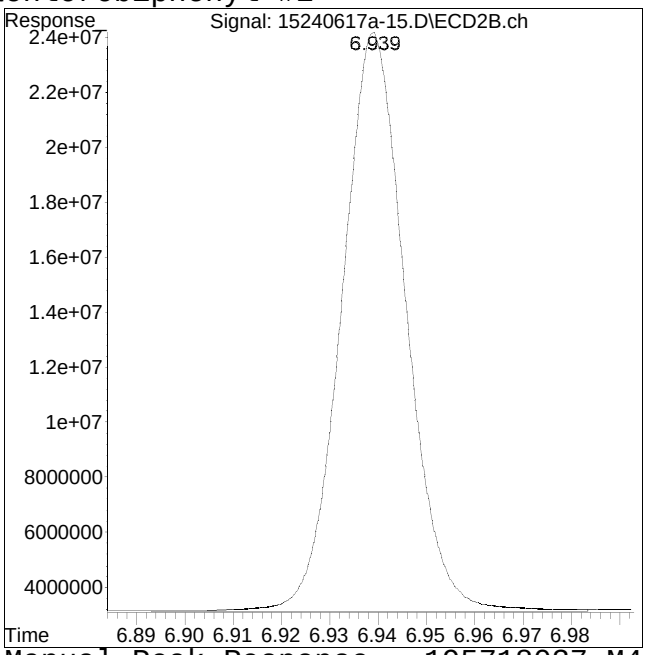
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-15.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:20 am Instrument : Pest 15
Sample : WG1934990-2,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 197956930 Manual Peak Response = 195718037 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:31 am
Operator : Pest15:ejl
Sample : WG1934990-3,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:16 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.219	1.313	93149514	170.0E6	25.000	25.000
	Standard Area 1 : #1 = 93207096				Recovery = 99.94%		
	Standard Area 1 : #2 = 165237787				Recovery = 102.88%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.820	146.6E6	233.9E6	31.962	30.561
	Spiked Amount 50.000	Range 30 - 150			Recovery = 63.92%		61.12%
27) s	Decachlorobi	6.266	6.939	140.4E6	189.9E6	35.206	32.862M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 70.41%		65.72%
Target Compounds							
4)	alpha-BHC	1.909	2.250	212.7E6	364.5E6	38.304	37.515M4
5)	gamma-BHC (l	2.114	2.540	200.2E6	337.0E6	37.479	36.448M4
6)	beta-BHC	2.172	2.606	96938552	155.6E6	35.740	34.528
7)	delta-BHC	2.301	2.875	184.7E6	312.3E6	35.365	33.999M3
8)	Heptachlor	2.464	2.943	185.2E6	316.5E6	36.208	36.233M4
9)	Aldrin	2.707	3.264	177.1E6	293.9E6	35.273	35.271M4
12)	Heptachlor E	3.249	3.885	176.0E6	281.9E6	35.611M4	34.651M4
13)	gamma-Chlord	3.374	4.106	179.7E6	290.9E6	38.710	38.601
14)	alpha-Chlord	3.507	4.278	176.2E6	281.8E6	33.612	33.834
15)	4,4'-DDE	3.607	4.477	172.8E6	278.2E6	33.585	33.774
16)	Endosulfan I	3.642	4.339	167.5E6	264.0E6	35.006	34.368
17)	Dieldrin	3.901	4.634	188.8E6	299.1E6	38.337	38.045
18)	Endrin	4.155	4.932	180.7E6	277.2E6	36.054	34.552
19)	4,4'-DDD	4.272	5.055	149.2E6	237.7E6	36.363	35.094
20)	Endosulfan I	4.402	5.131	162.0E6	251.2E6	35.935	34.497
21)	4,4'-DDT	4.570	5.334	154.6E6	249.9E6	37.261M3	33.577M4
22)	Endrin Aldeh	4.825	5.430	116.4E6	179.6E6	30.944	28.881M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:31 am
Operator : Pest15:ejl
Sample : WG1934990-3,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:16 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest15\2024\240617A\15240617a-06.D
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.069	5.903	89069179	133.4E6	41.871	37.416M4
25)	Endosulfan S	5.223	5.660	147.5E6	229.2E6	32.899	32.884M4
26)	Endrin Keton	5.452	6.074	176.0E6	271.8E6	36.044	35.441M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

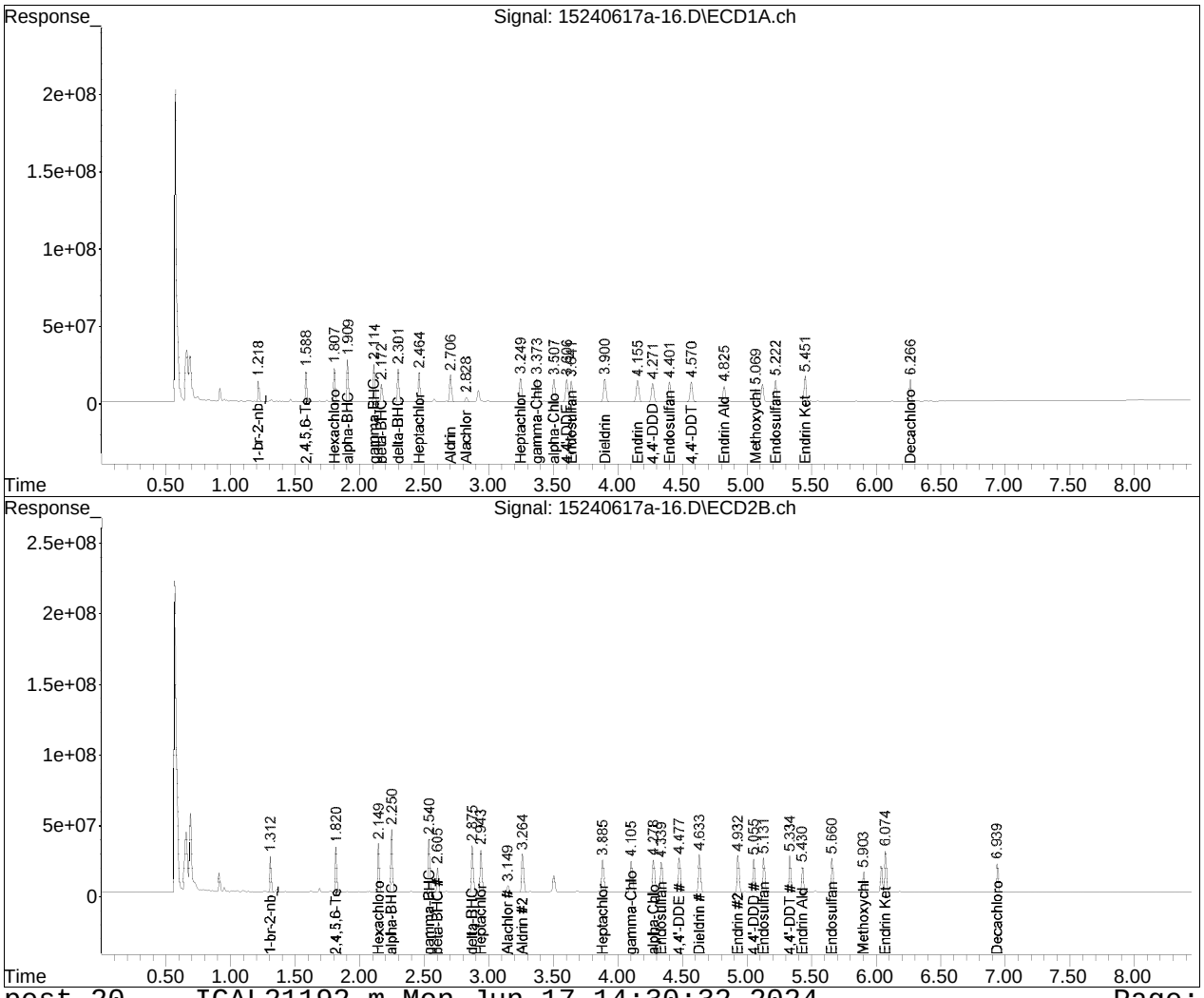
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Sub List : LCS_MS - spk only5\2024\240617A\15240617a-06.D•

Data Path : I:\PEST\Pest15\2024\240617A\
Data File : 15240617a-16.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jun 2024 9:31 am
Operator : Pest15:ejl
Sample : WG1934990-3,42,, 4971
Misc : wg1935124,WG1934990,ical21192
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 14:21:16 2024
Quant Method : I:\PEST\Pest15\2024\240617A\P15_pest_2024_06_12_ugL_ICAL2119
... 2.m
Quant Title : pest
QLast Update : Mon Jun 17 07:31:43 2024
Response via : Initial Calibration
Integrator: ChemStation

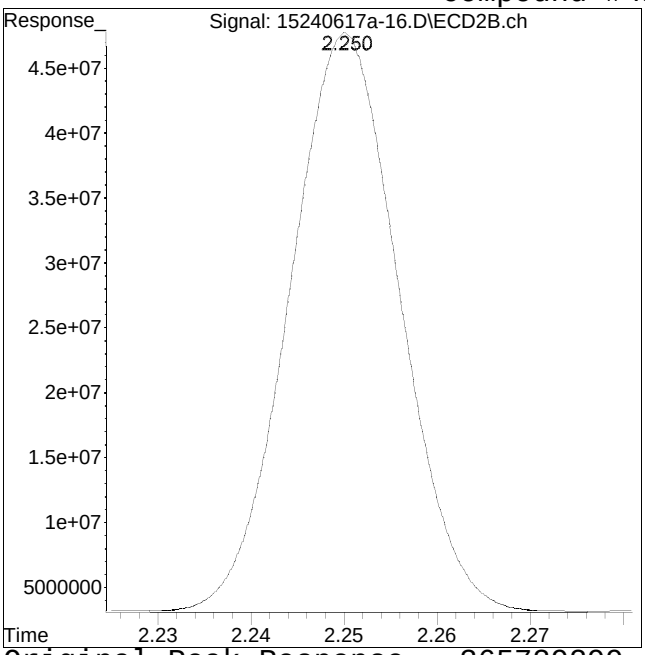
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

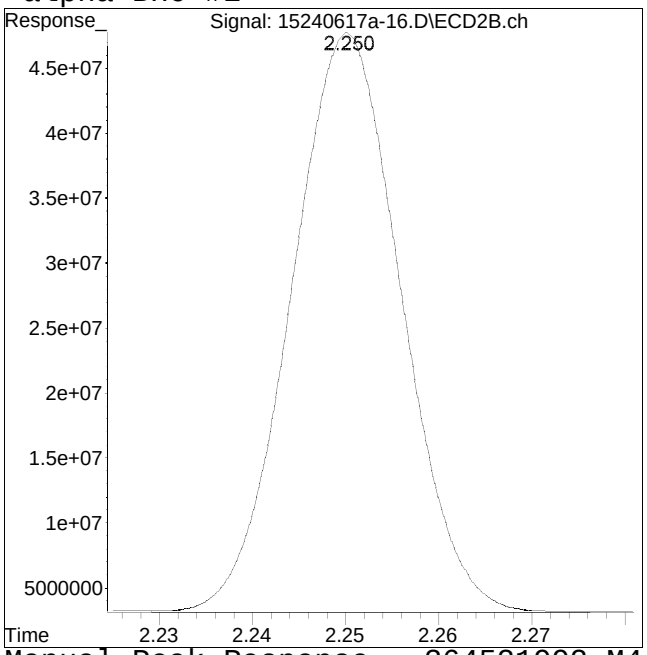


Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #42: alpha-BHC #2



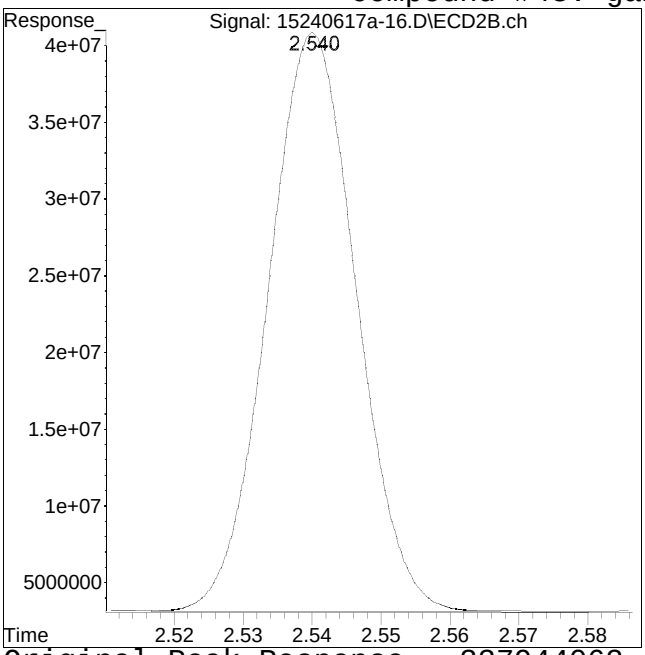


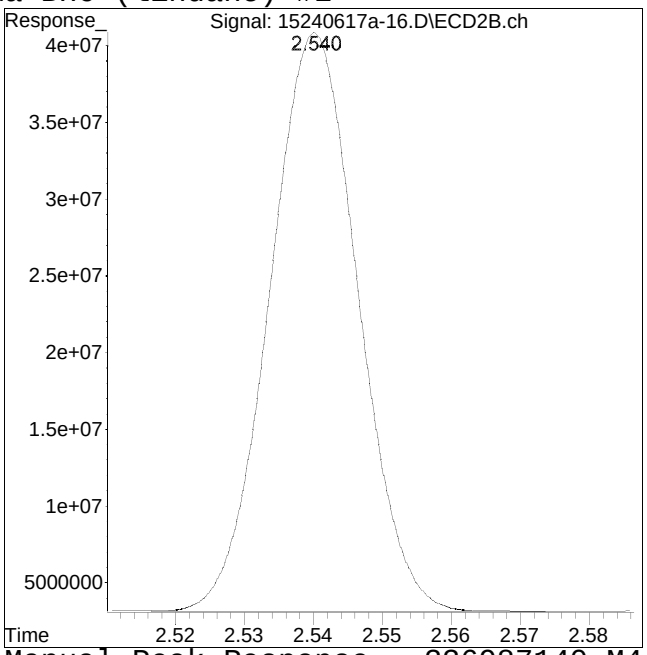
Original Peak Response = 365729299 Manual Peak Response = 364521992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #43: gamma-BHC (lindane) #2



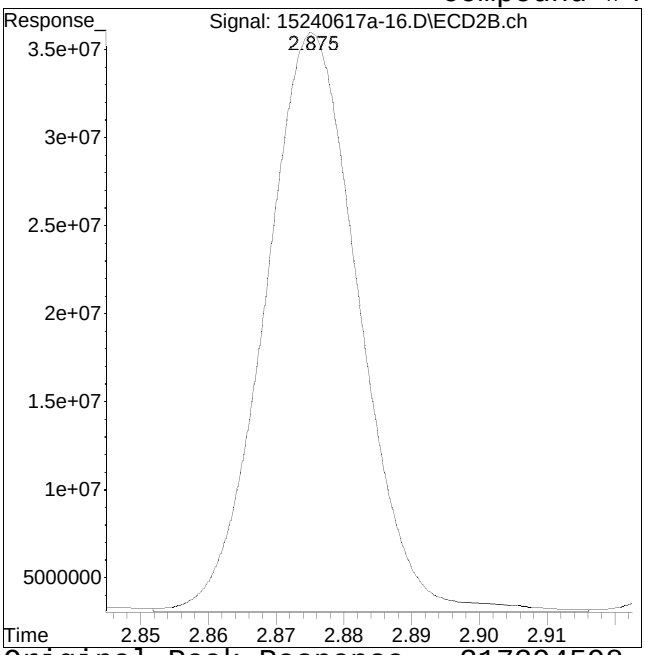


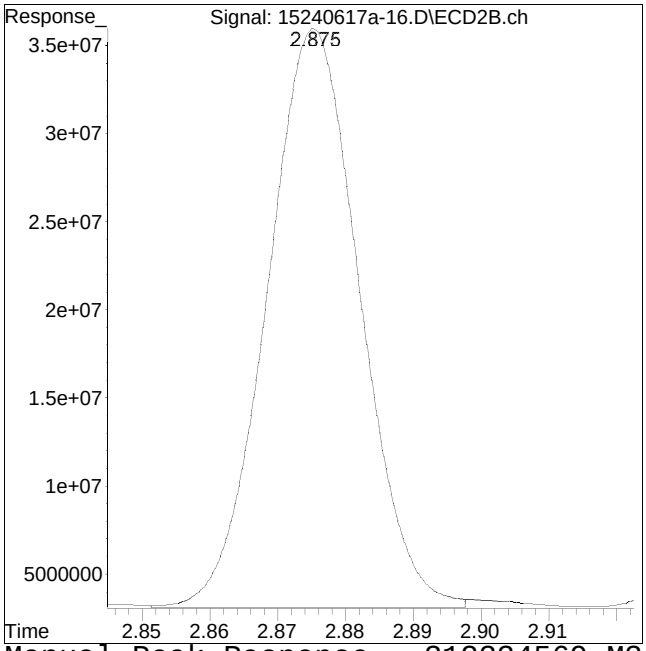
Original Peak Response = 337944062 Manual Peak Response = 336987140 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #45: delta-BHC #2



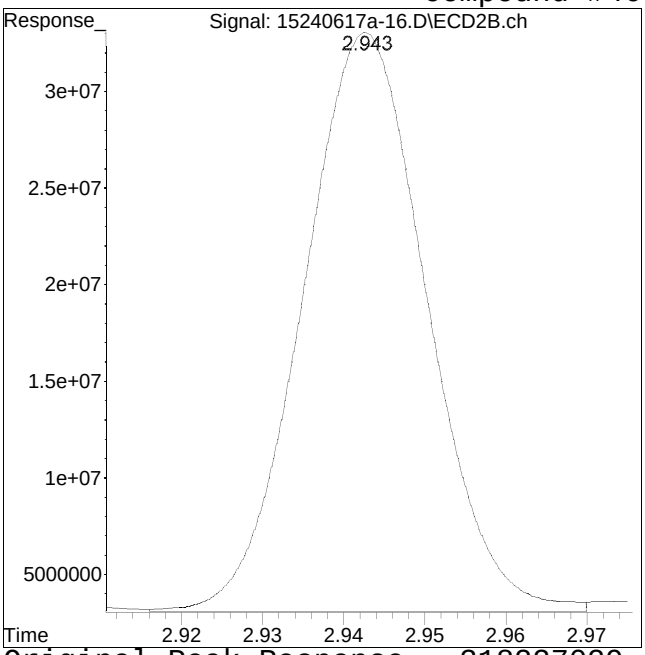


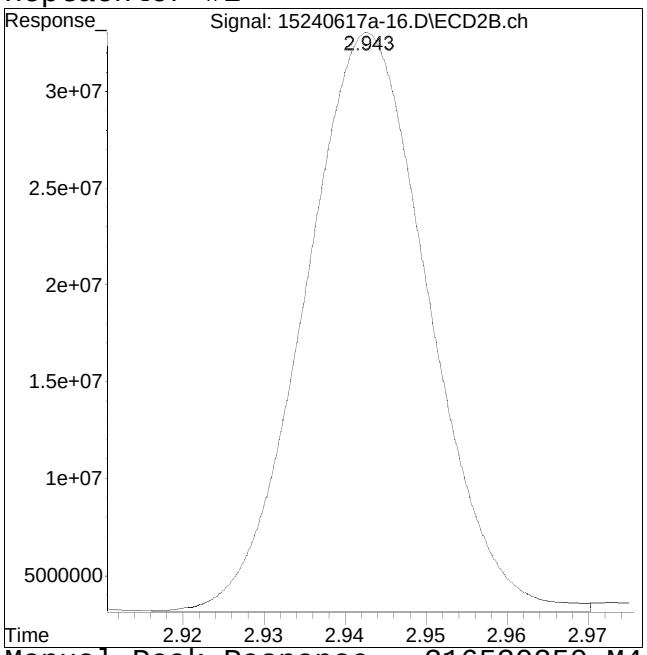
Original Peak Response = 317394598 Manual Peak Response = 312334569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #46: Heptachlor #2



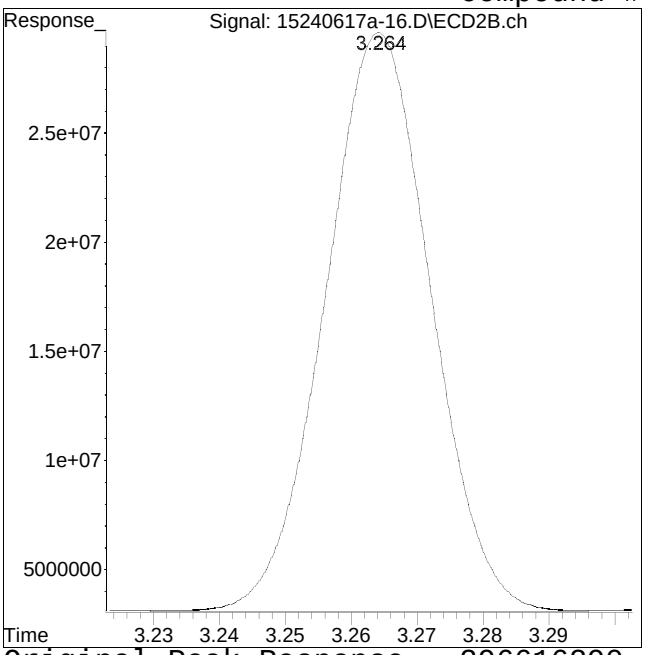


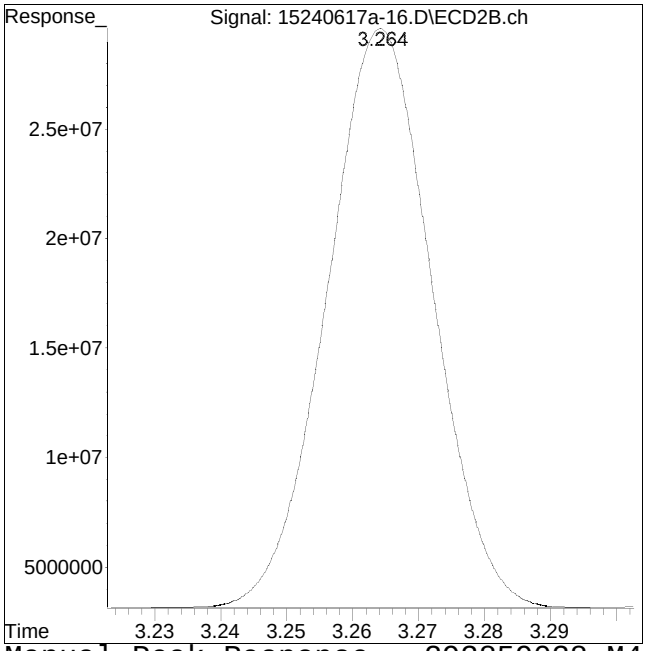
Original Peak Response = 318227029 Manual Peak Response = 316530250 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #47: Aldrin #2



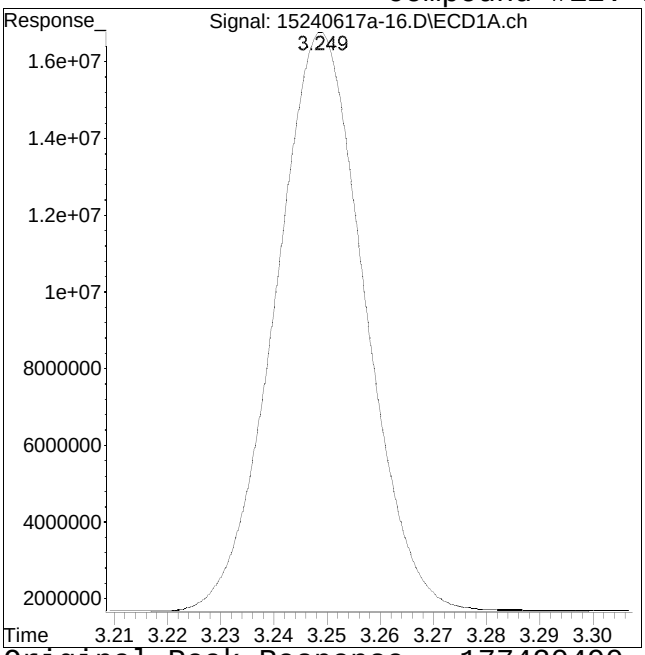


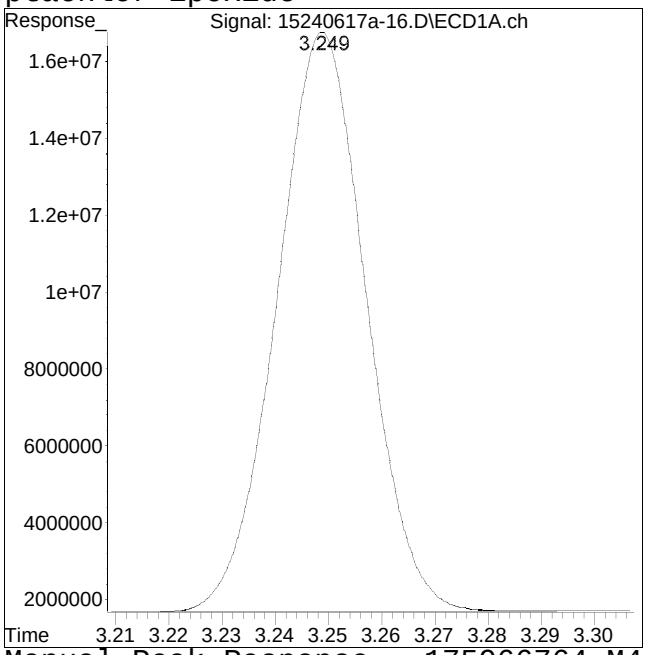
Original Peak Response = 296616290 Manual Peak Response = 293859038 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #12: Heptachlor Epoxide



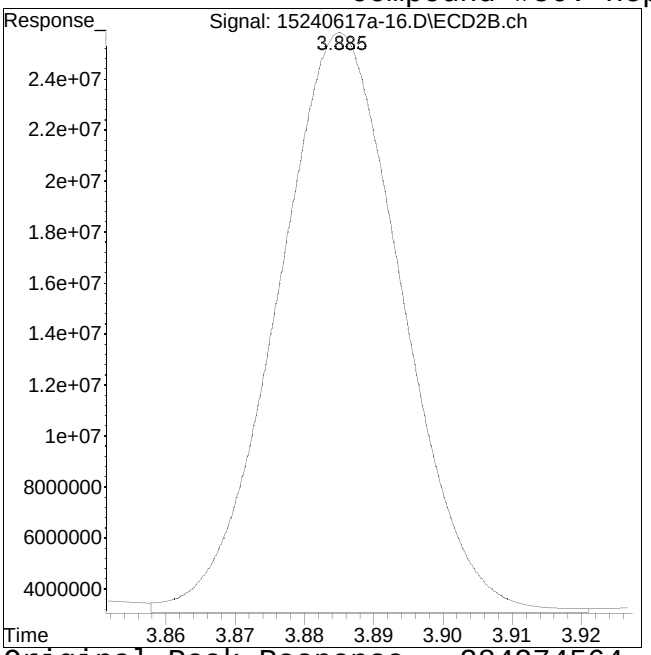


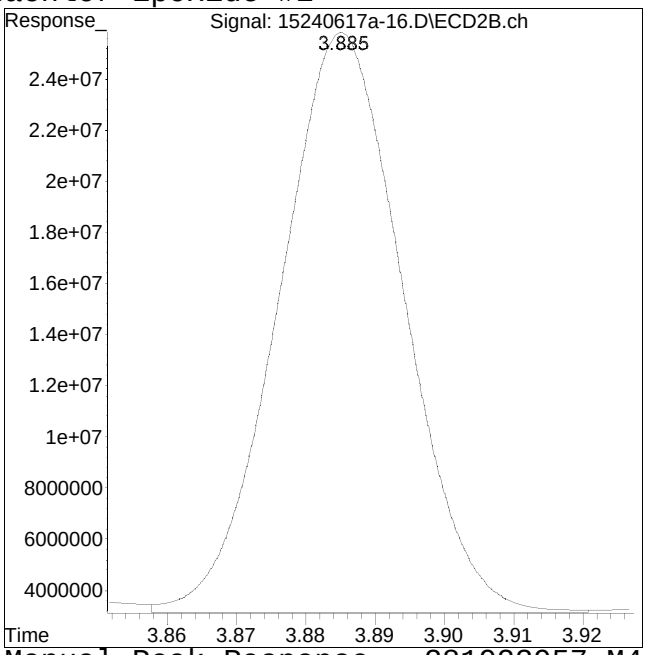
Original Peak Response = 177420490 Manual Peak Response = 175966764 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #50: Heptachlor Epoxide #2



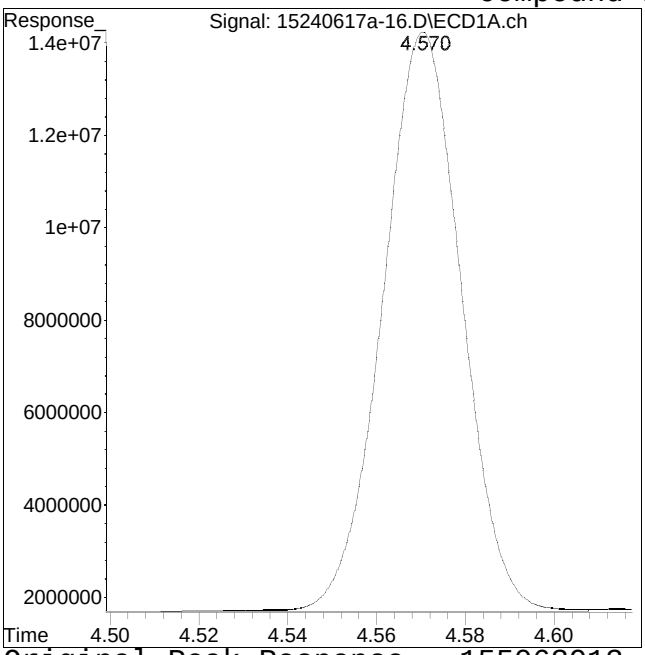


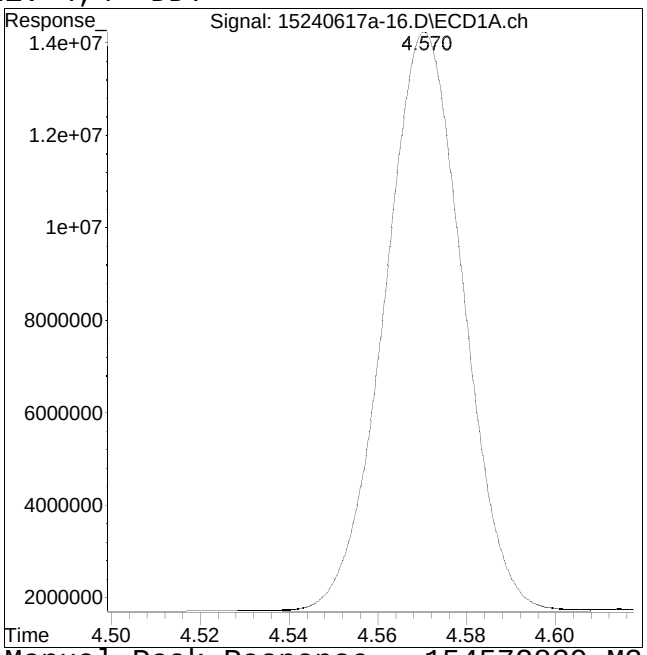
Original Peak Response = 284274564 Manual Peak Response = 281923957 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #21: 4,4'-DDT



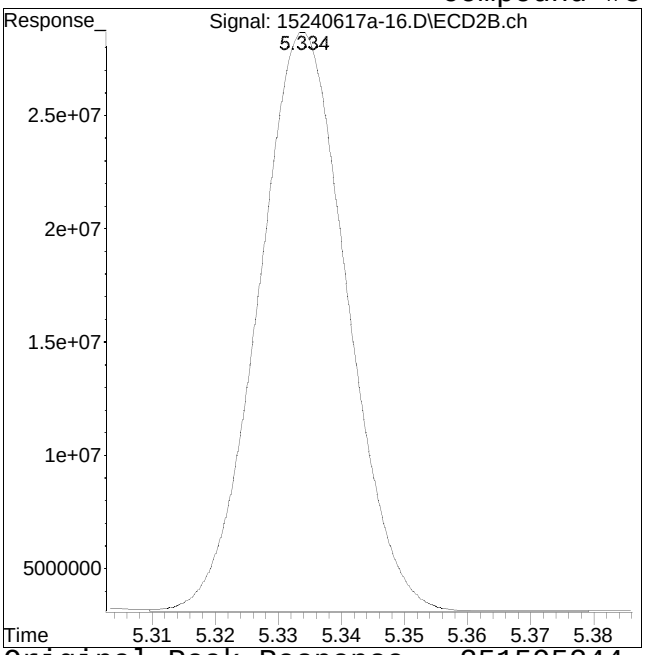


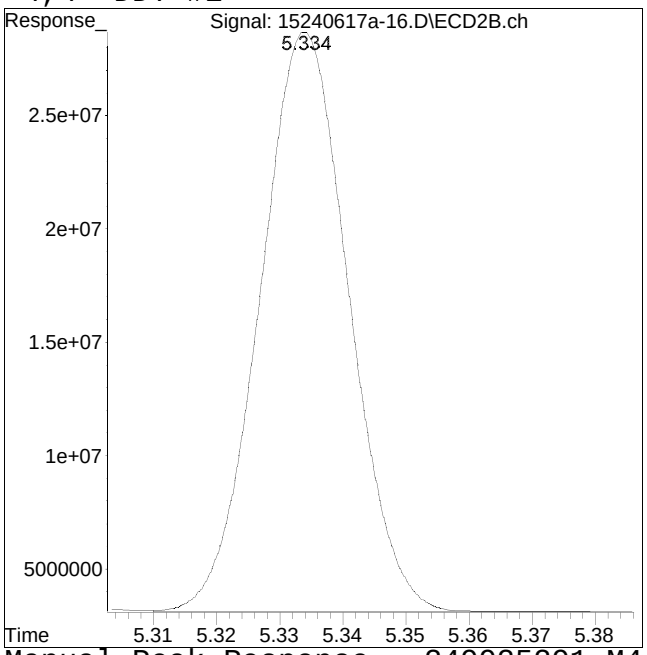
Original Peak Response = 155063913 Manual Peak Response = 154572839 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #59: 4,4'-DDT #2



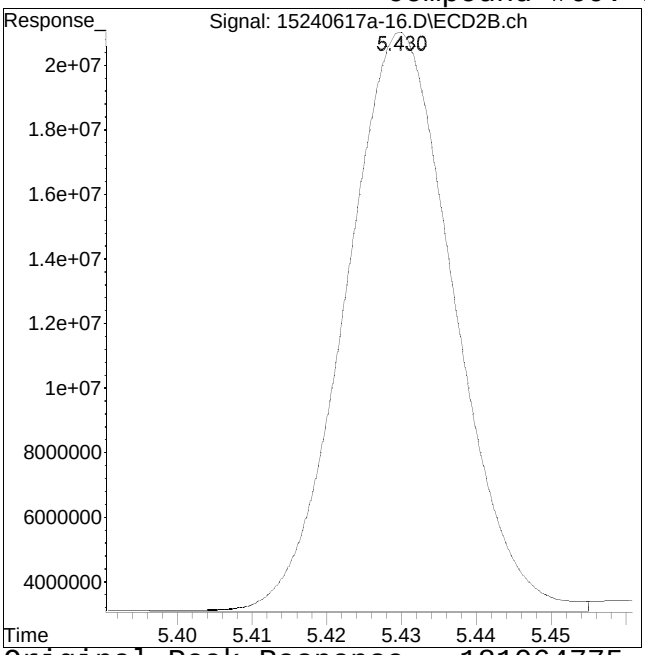


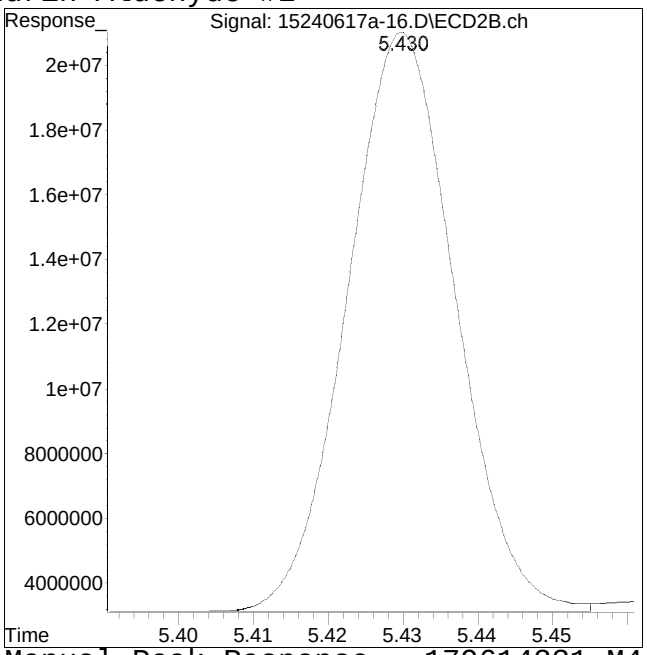
Original Peak Response = 251595244 Manual Peak Response = 249925291 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #60: Endrin Aldehyde #2



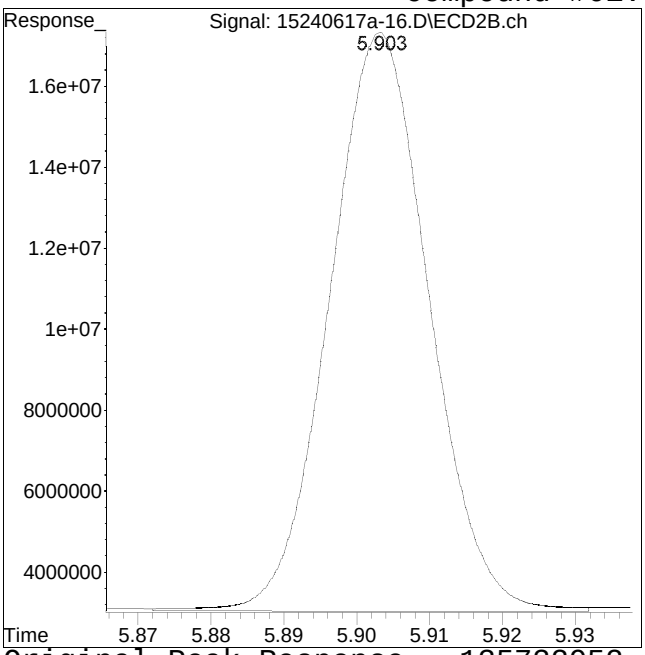


Original Peak Response = 181064775 Manual Peak Response = 179614231 M4
M4 = Poor automated baseline construction.

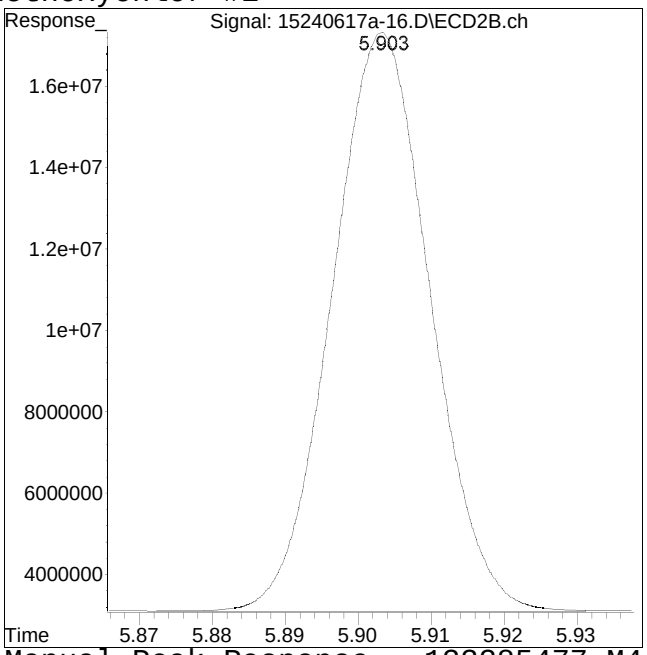
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #61: Methoxychlor #2



Original Peak Response = 135732952



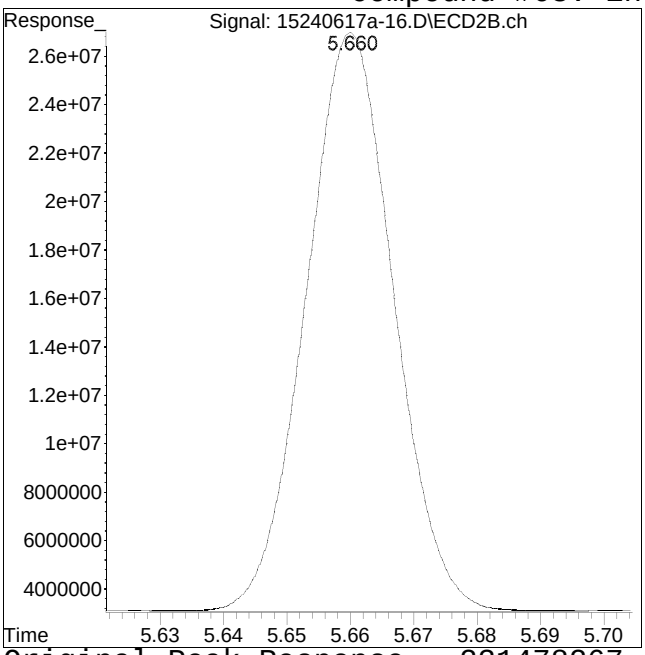
Manual Peak Response = 133385477 M4

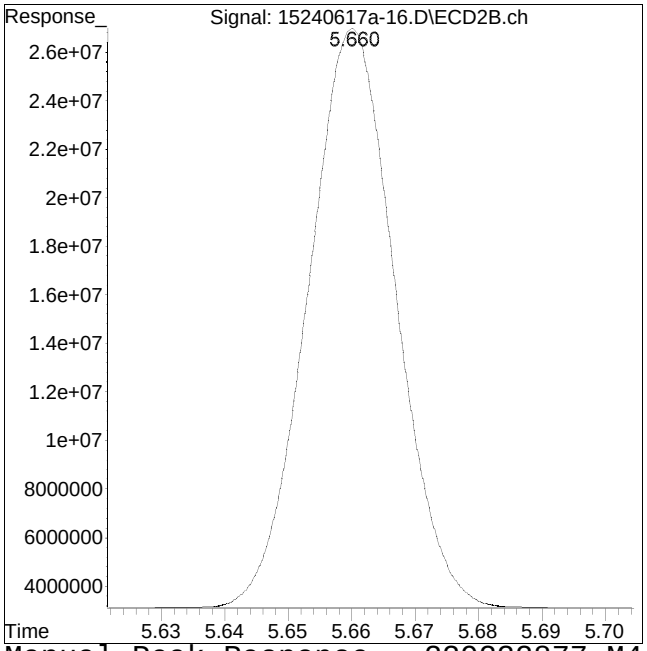
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #63: Endosulfan Sulfate #2



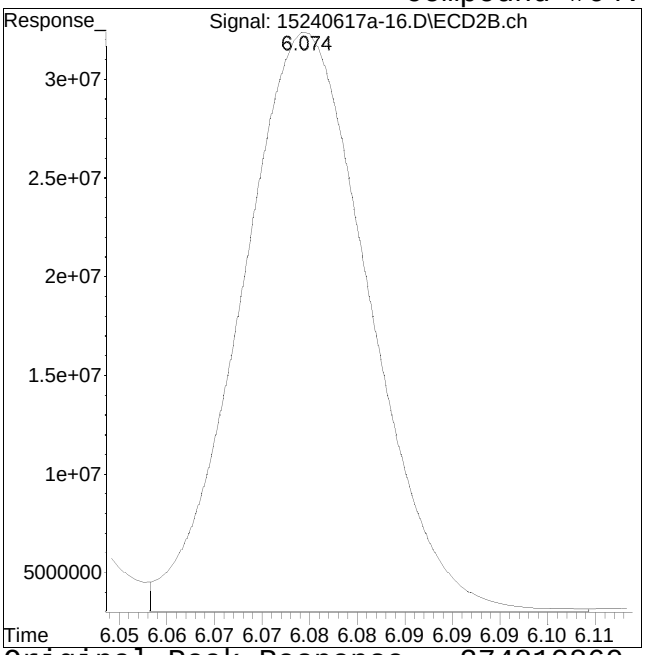


Original Peak Response = 231478267 Manual Peak Response = 229232877 M4
M4 = Poor automated baseline construction.

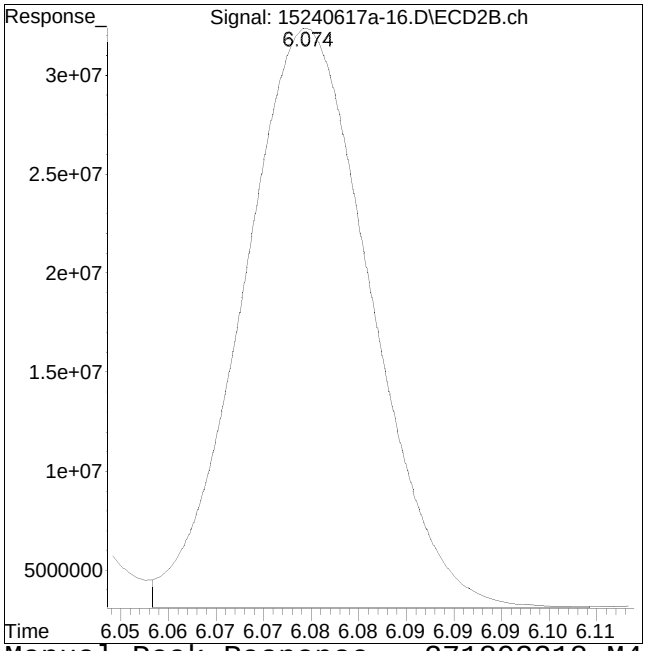
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 274810860



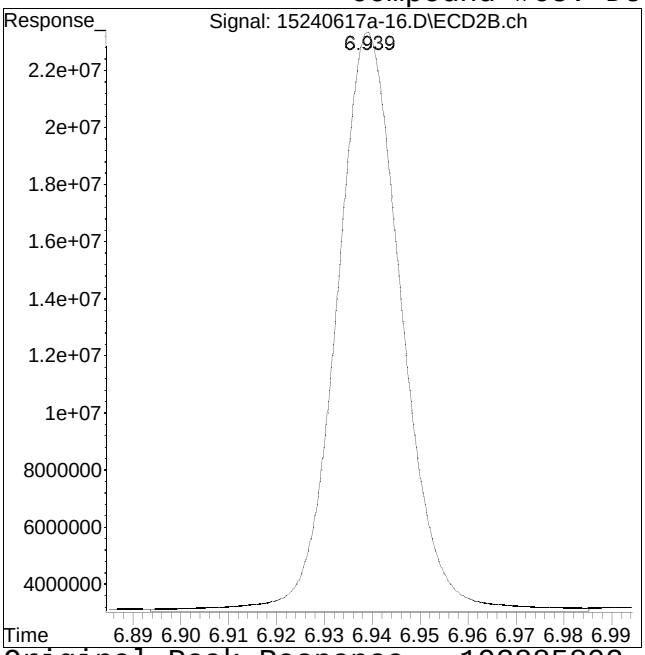
Manual Peak Response = 271803218 M4

M4 = Poor automated baseline construction.

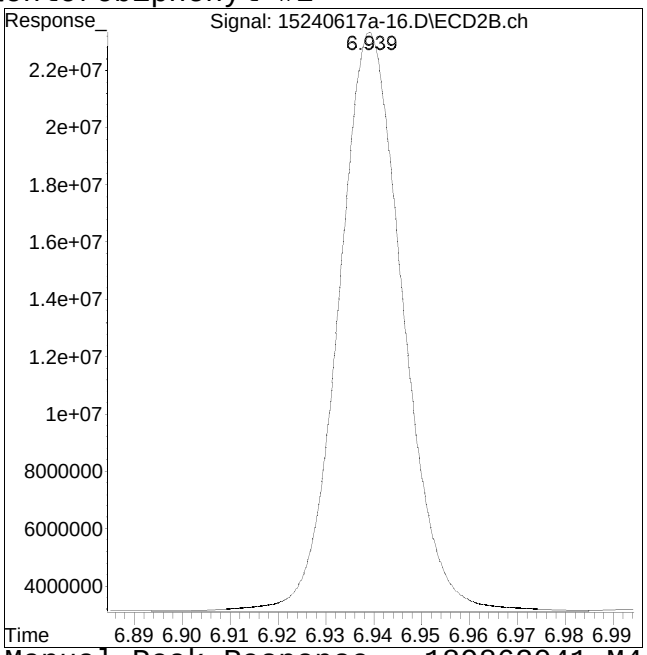
Manual Integration Report

Data Path : I:\PEST\Pest15\2024\240617QMethod : P15_pest_2024_06_12_ugL_
Data File : 15240617a-16.D Operator : Pest15:ejl
Date Inj'd : 6/17/2024 9:31 am Instrument : Pest 15
Sample : WG1934990-3,42,, 4971 Quant Date : 6/17/2024 2:21 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 193885802



Manual Peak Response = 189862041 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:36
Operator : PEST18:mmg
Sample : WG1934990-4,42,, ms
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:37 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	484.7E6	254.0E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 451933897				Recovery = 107.26%		
	Standard Area 1 : #2 = 223085596				Recovery = 113.85%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.158	2.325	632.4E6	323.4E6	33.059M4	32.117M3
	Spiked Amount 50.000	Range 30 - 150		Recovery = 66.12%		64.23%	
27) s	Decachlorobi	6.958	7.517	615.1E6	304.7E6	38.375M3	41.822M3
	Spiked Amount 50.000	Range 30 - 150		Recovery = 76.75%		83.64%	
Target Compounds							
4)	alpha-BHC	2.515	2.767	952.9E6	488.9E6	37.957M3	37.618M4
5)	gamma-BHC (l	2.737	3.058	853.1E6	451.7E6	36.236M3	36.768M4
6)	beta-BHC	2.802	3.130	411.4E6	208.8E6	41.743M4	38.890M4
7)	delta-BHC	2.937	3.396	853.1E6	427.0E6	36.157M3	34.524M3
8)	Heptachlor	3.107	3.454	860.6E6	462.7E6	36.764M3	38.065M4
9)	Aldrin	3.359	3.771	792.7E6	429.0E6	37.755M4	39.706M4
12)	Heptachlor E	3.924	4.385	759.7E6	408.1E6	37.642M4	38.831
13)	gamma-Chlord	4.052	4.604	787.5E6	422.5E6	41.573M4	43.935M4
14)	alpha-Chlord	4.189	4.778	740.5E6	417.0E6	35.528M3	38.429M4
15)	4,4'-DDE	4.295	4.996	761.1E6	407.7E6	38.507M3	40.172
16)	Endosulfan I	4.325	4.840	713.4E6	389.0E6	37.339M3	38.717M4
17)	Dieldrin	4.590	5.150	821.2E6	438.5E6	41.408M3	43.179M4
18)	Endrin	4.848	5.460	774.2E6	412.1E6	37.735M4	41.437M4
19)	4,4'-DDD	4.968	5.598	656.9E6	350.1E6	40.463M3	41.350M3
20)	Endosulfan I	5.095	5.668	713.7E6	373.9E6	39.783M4	40.172M3
21)	4,4'-DDT	5.267	5.883	703.4E6	378.1E6	39.661M4	38.808M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:36
Operator : PEST18:mmg
Sample : WG1934990-4,42,, ms
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:37 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) Endrin Aldeh	5.520	5.976	497.7E6	256.3E6	36.930M4	35.768M3
23) Methoxychlor	5.765	6.467	402.0E6	213.7E6	47.742M4	45.280M4
25) Endosulfan S	5.917	6.211	702.3E6	362.0E6	39.727M3	40.426M4
26) Endrin Keton	6.146	6.629	787.8E6	407.7E6	40.391M3	39.765M3
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

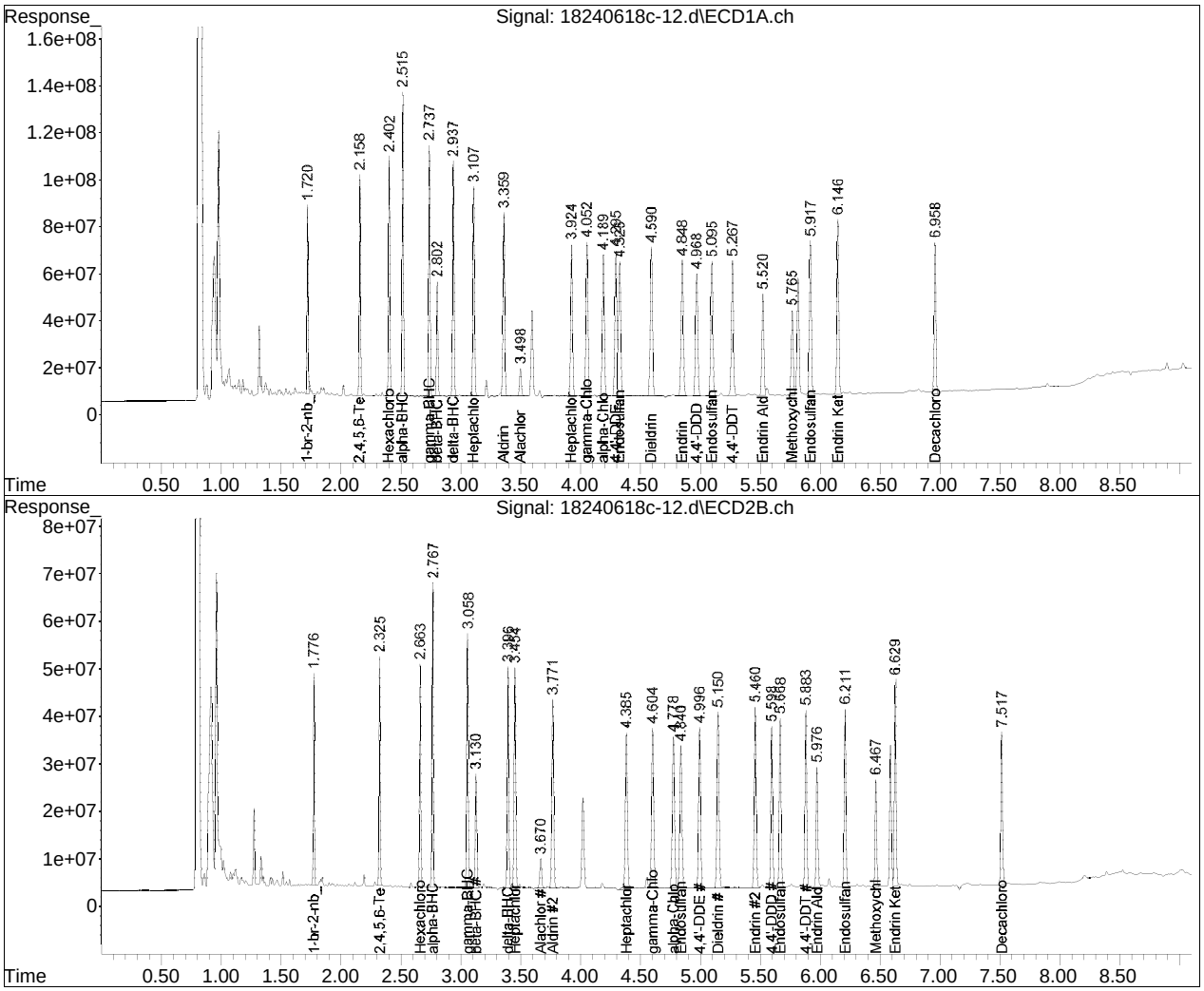
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only8\2024\240618C\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:36
Operator : PEST18:mmg
Sample : WG1934990-4,42,, ms
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:33:37 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

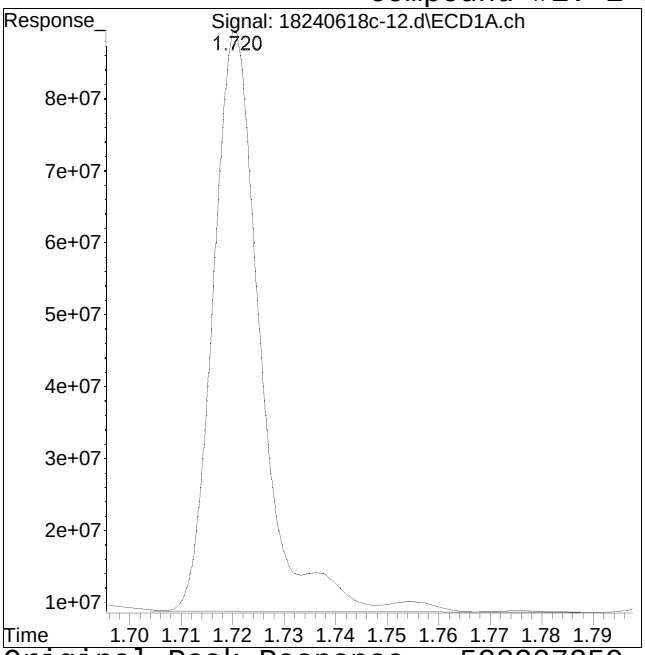
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

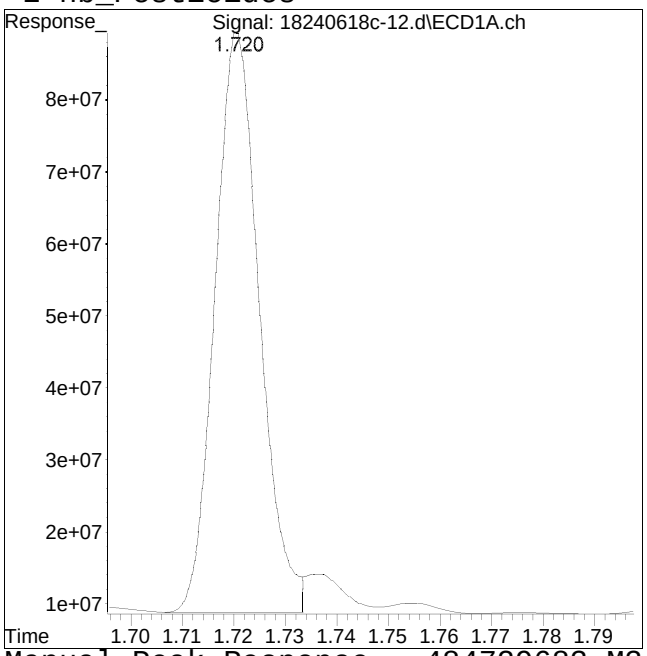


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #1: 1-br-2-nb_Pesticides



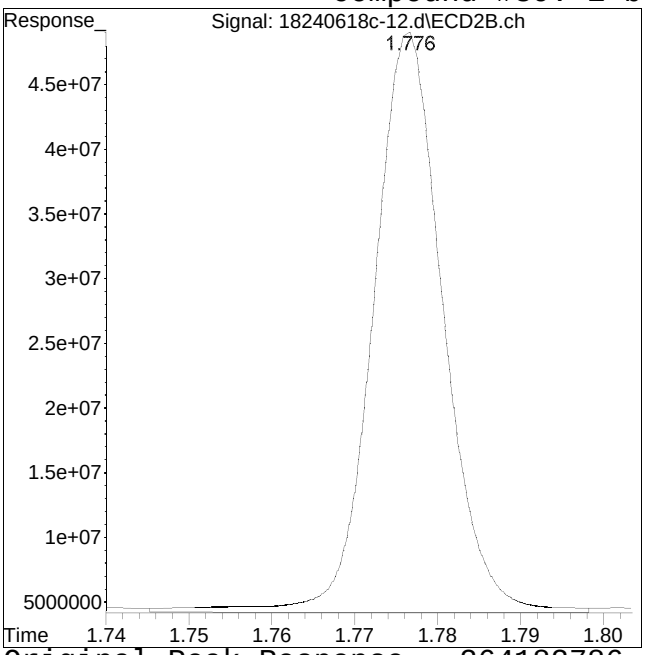


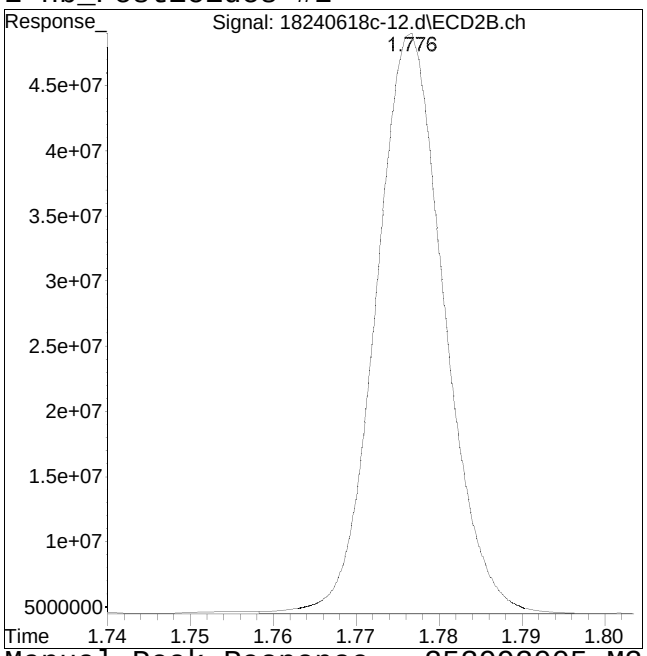
Original Peak Response = 522207259 Manual Peak Response = 484729683 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #39: 1-br-2-nb_Pesticides #2



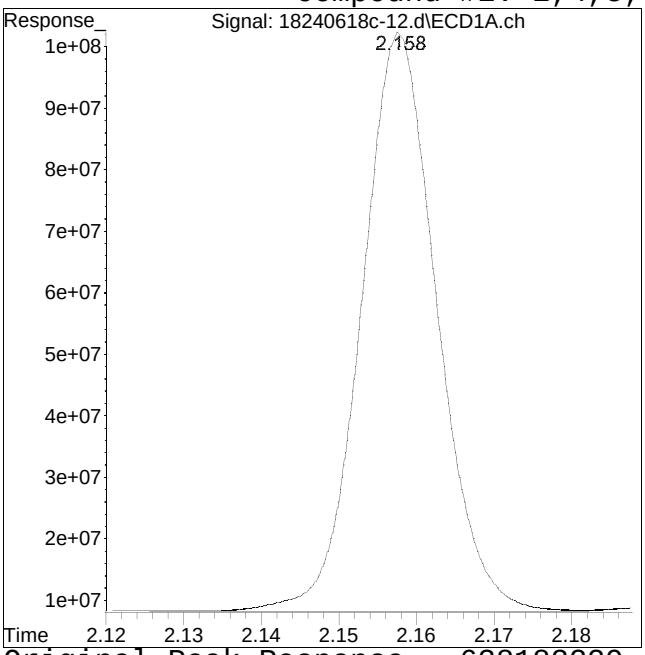


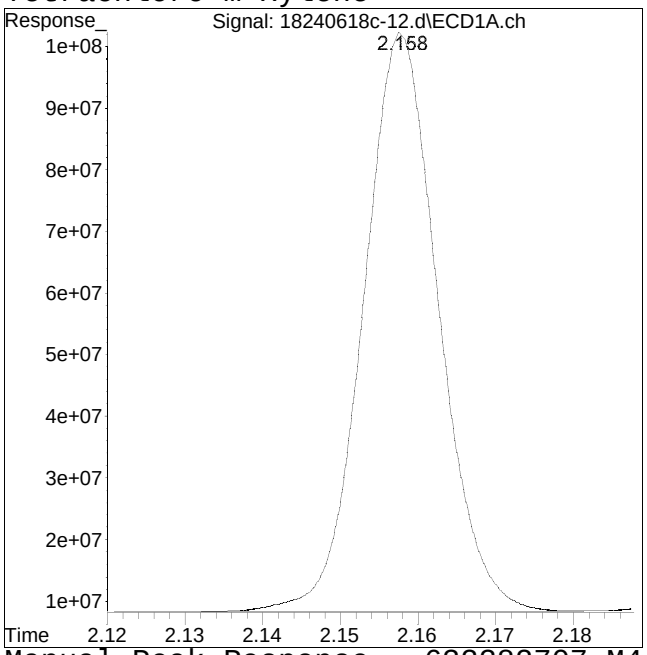
Original Peak Response = 264182786 Manual Peak Response = 253993005 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



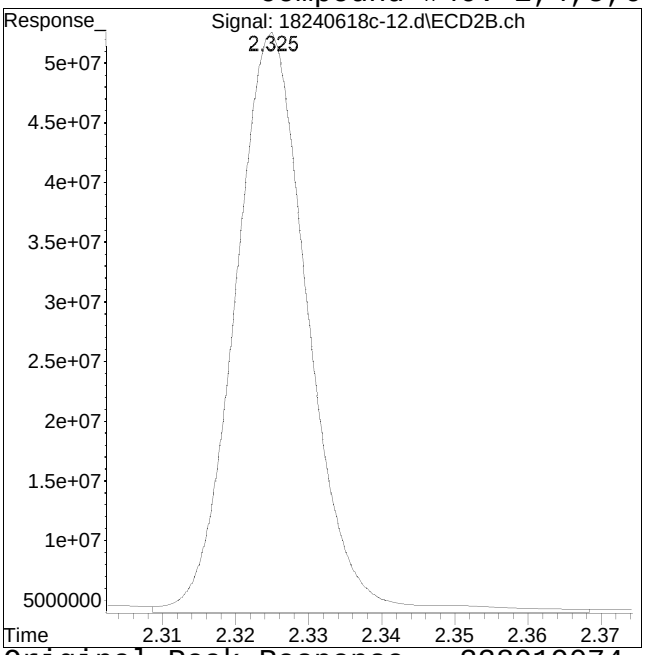


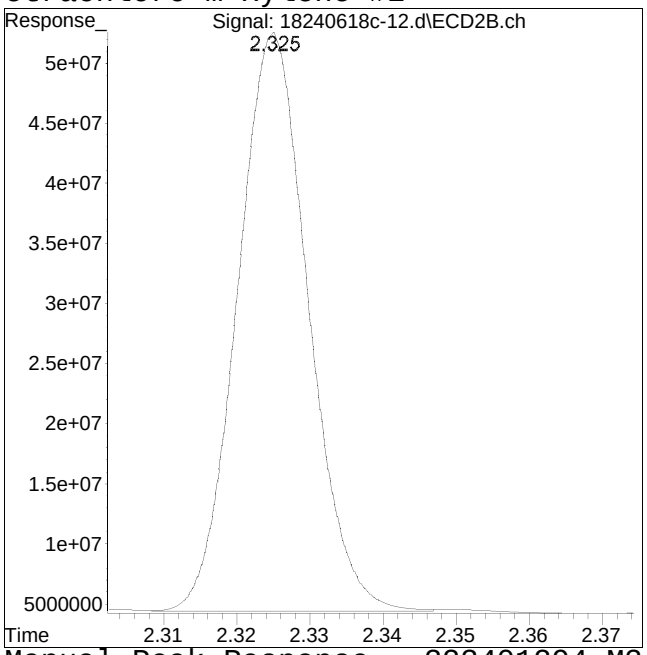
Original Peak Response = 638182229 Manual Peak Response = 632382707 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



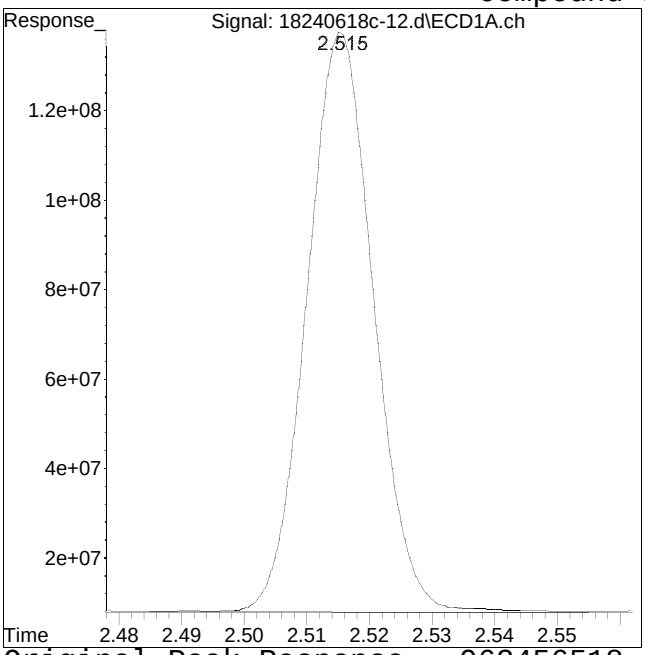


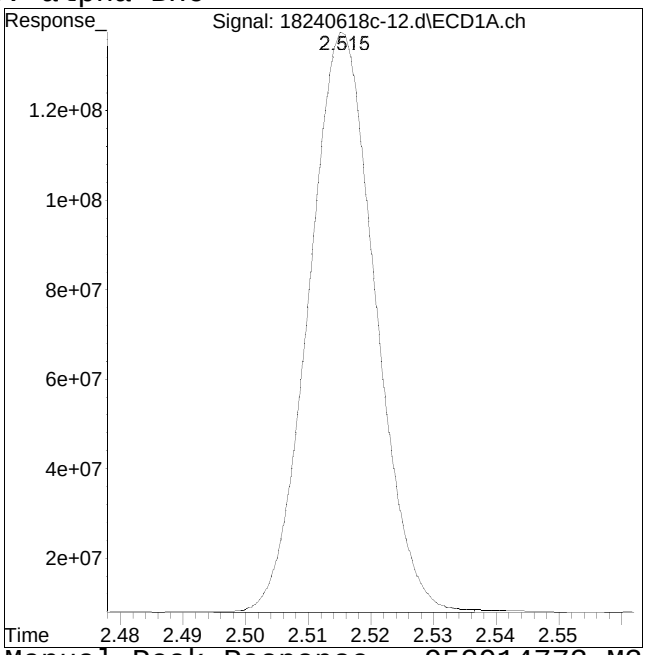
Original Peak Response = 338919074 Manual Peak Response = 323401294 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #4: alpha-BHC



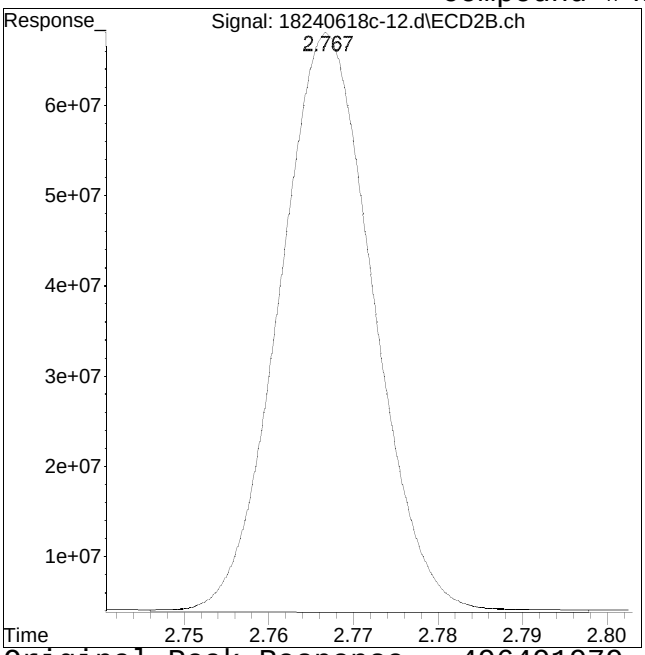


Original Peak Response = 962456518 Manual Peak Response = 952914773 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

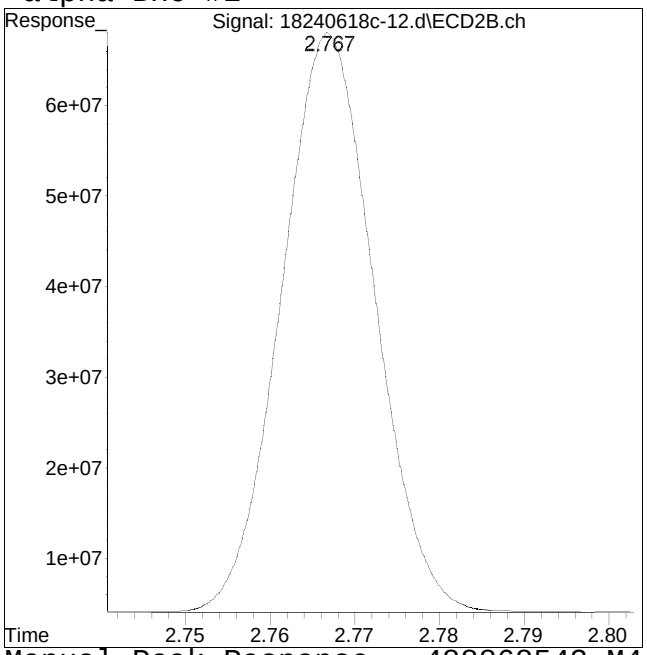
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #42: alpha-BHC #2



Original Peak Response = 496491979

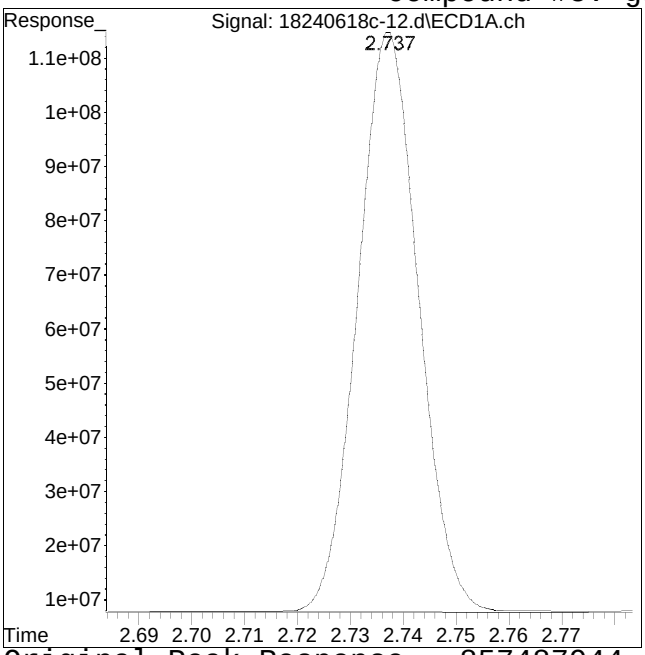


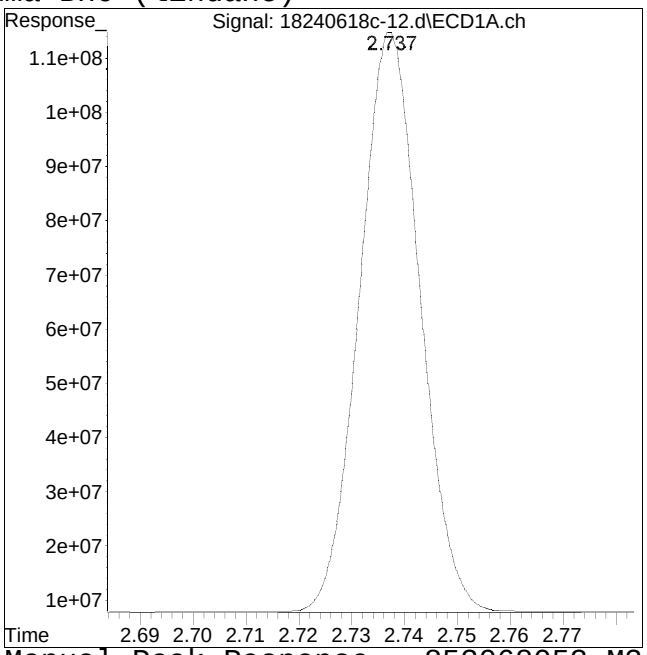
Manual Peak Response = 488868543 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #5: gamma-BHC (lindane)



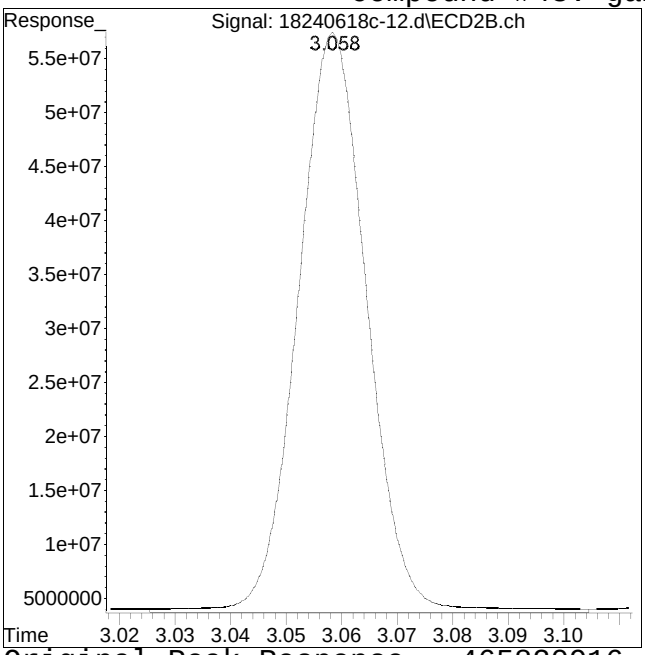


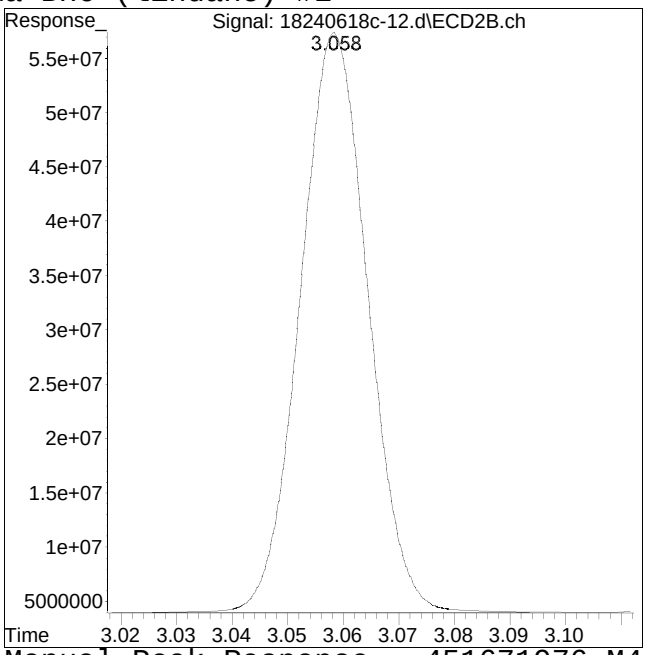
Original Peak Response = 857487944 Manual Peak Response = 853068053 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #43: gamma-BHC (lindane) #2



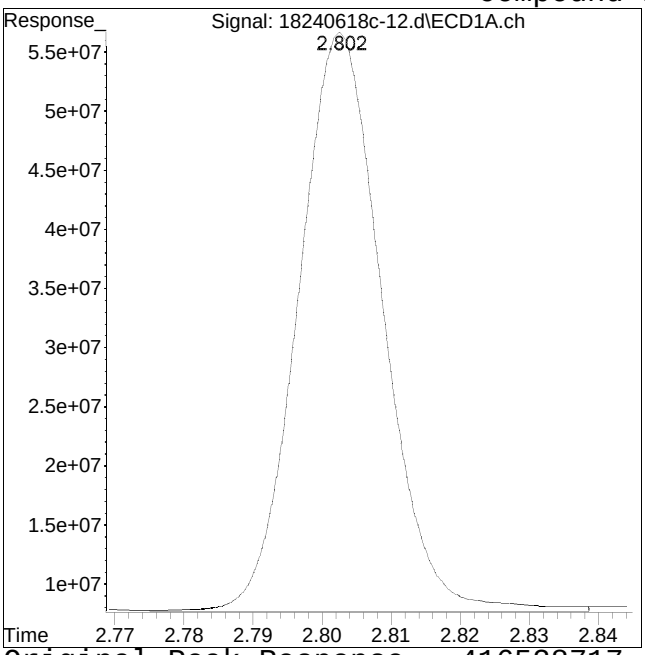


Original Peak Response = 465820916 Manual Peak Response = 451671976 M4
M4 = Poor automated baseline construction.

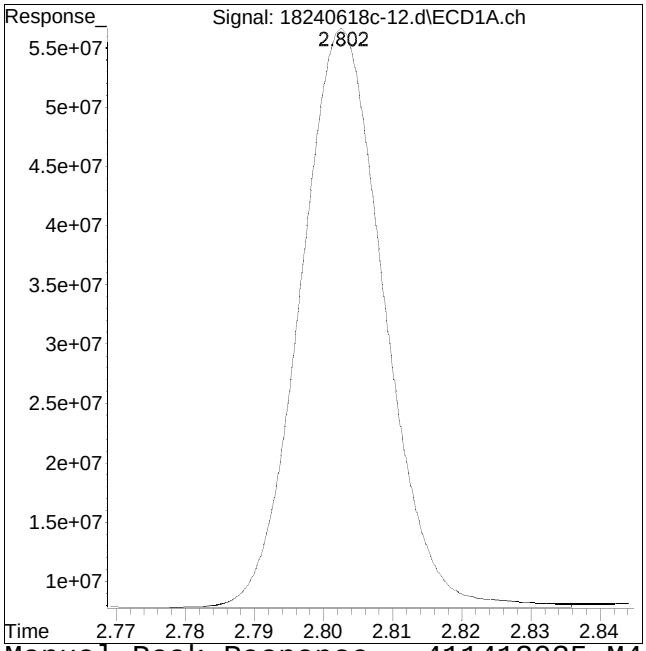
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #6: beta-BHC



Original Peak Response = 416528717



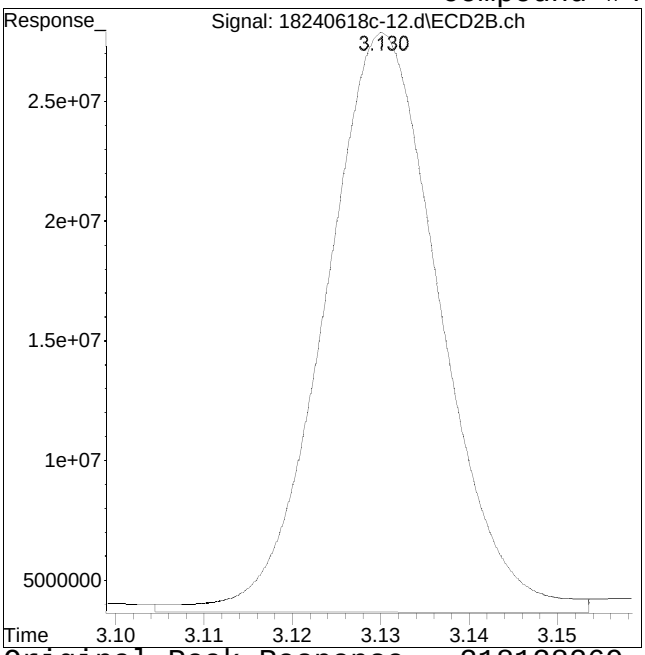
Manual Peak Response = 411413035 M4

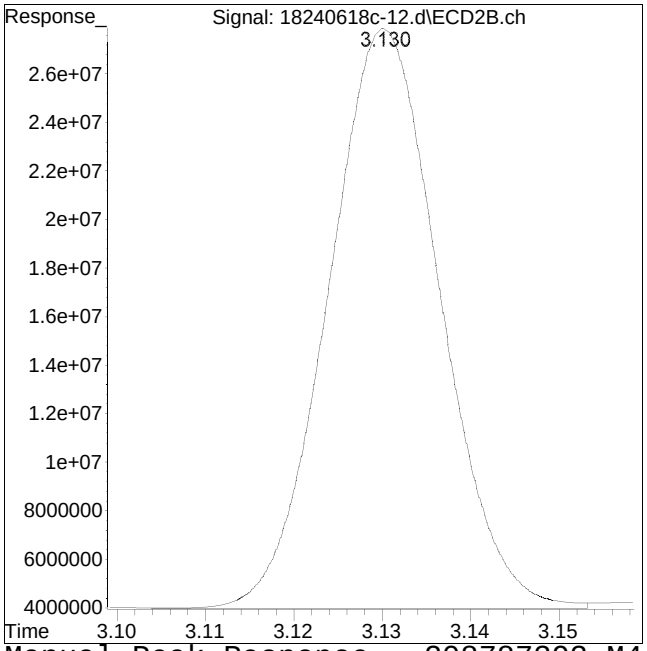
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #44: beta-BHC #2



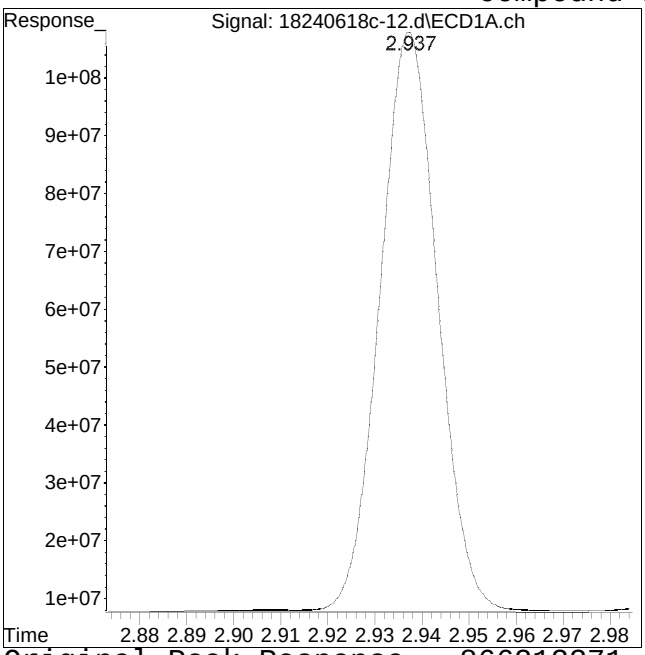


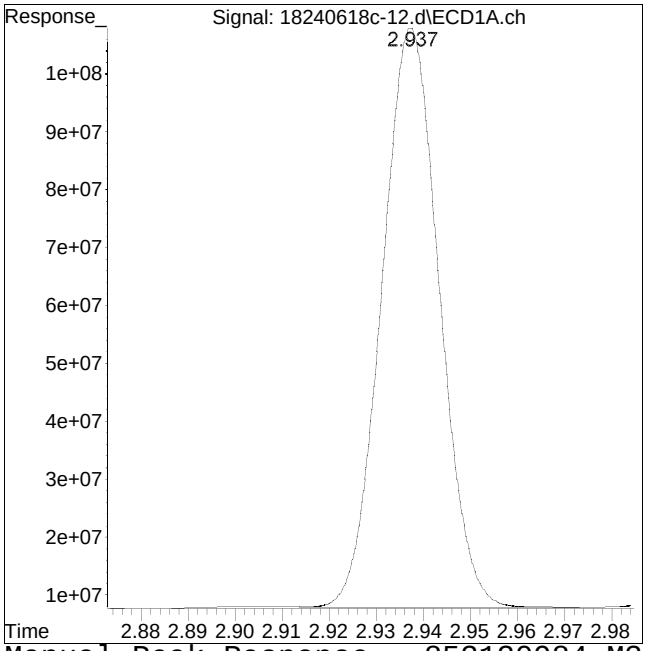
Original Peak Response = 218128269 Manual Peak Response = 208787393 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #7: delta-BHC



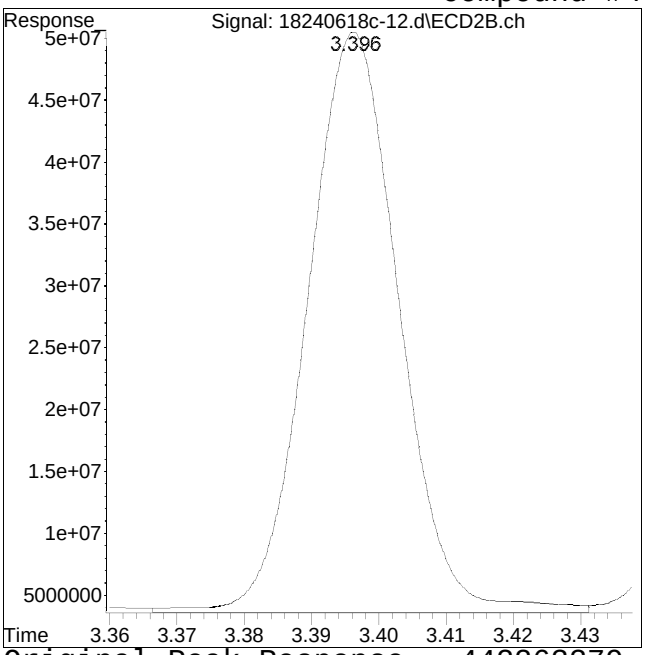


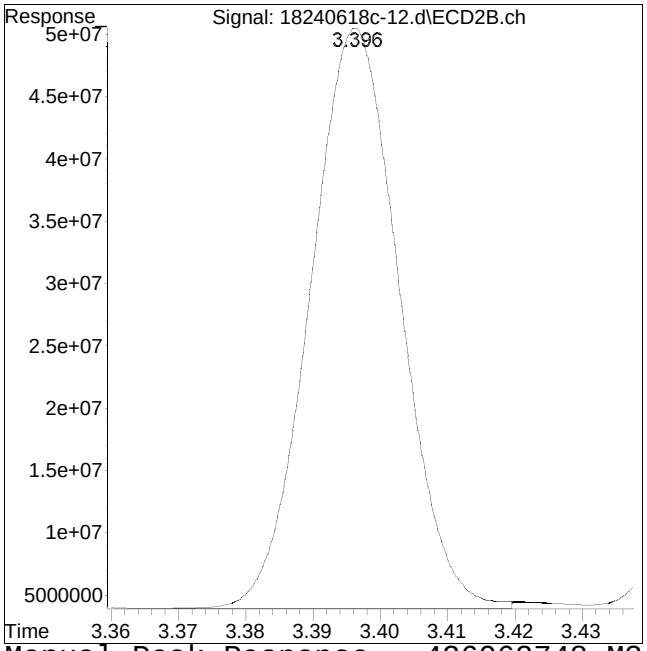
Original Peak Response = 866212371 Manual Peak Response = 853130984 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #45: delta-BHC #2



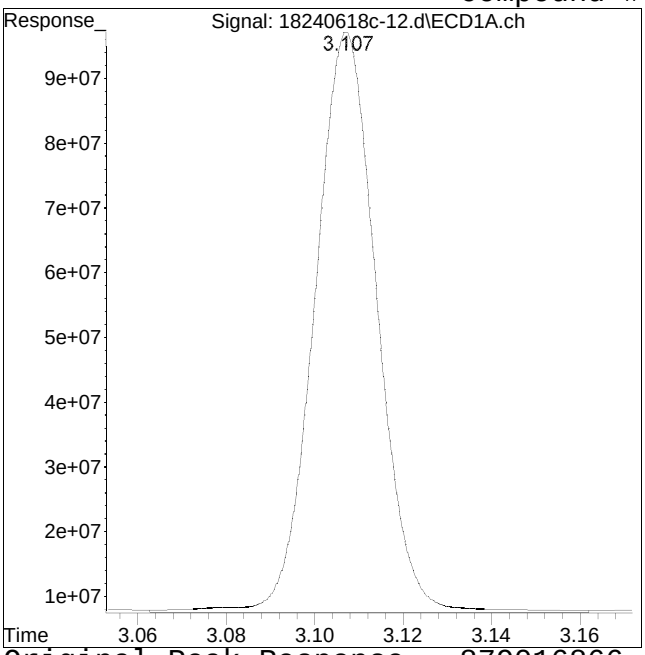


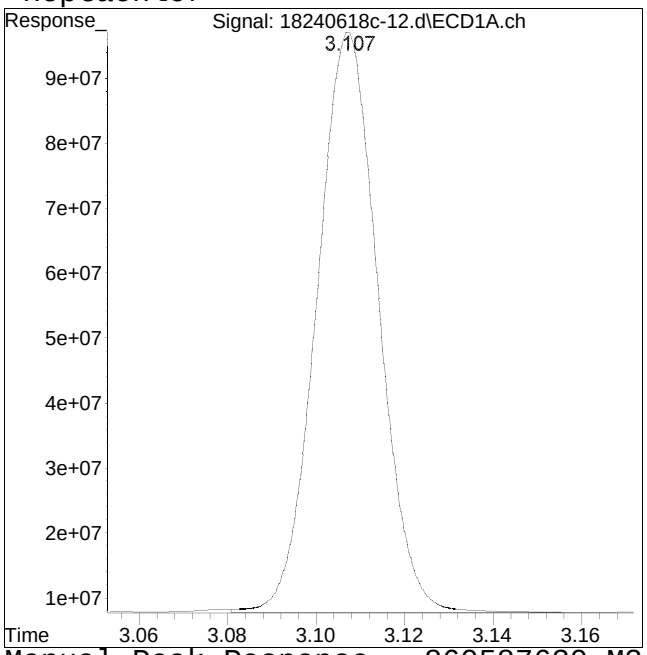
Original Peak Response = 442263379 Manual Peak Response = 426962748 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #8: Heptachlor



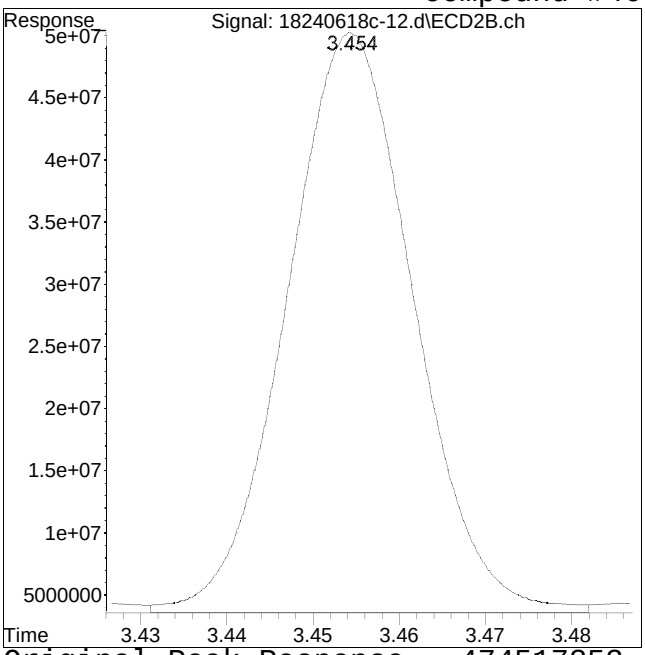


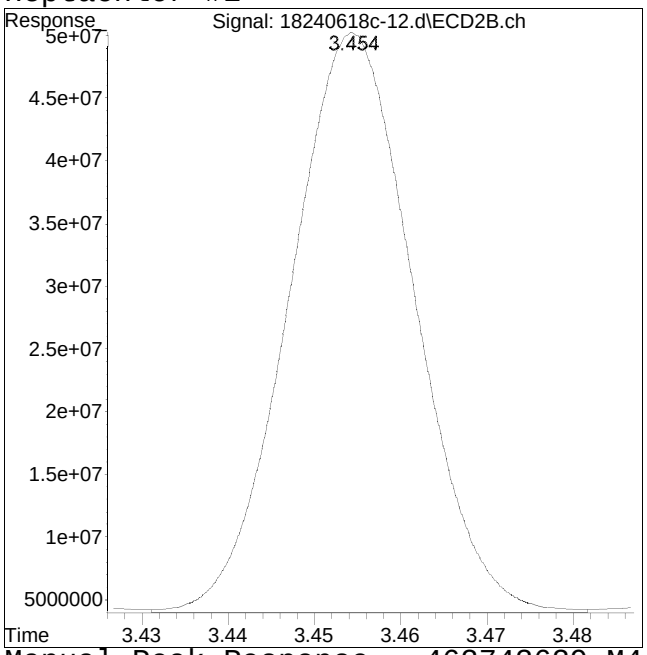
Original Peak Response = 879016866 Manual Peak Response = 860587630 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #46: Heptachlor #2



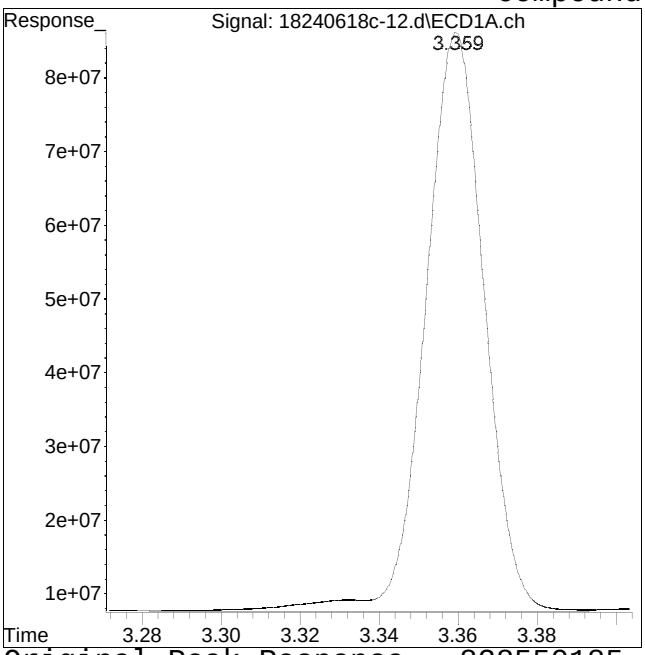


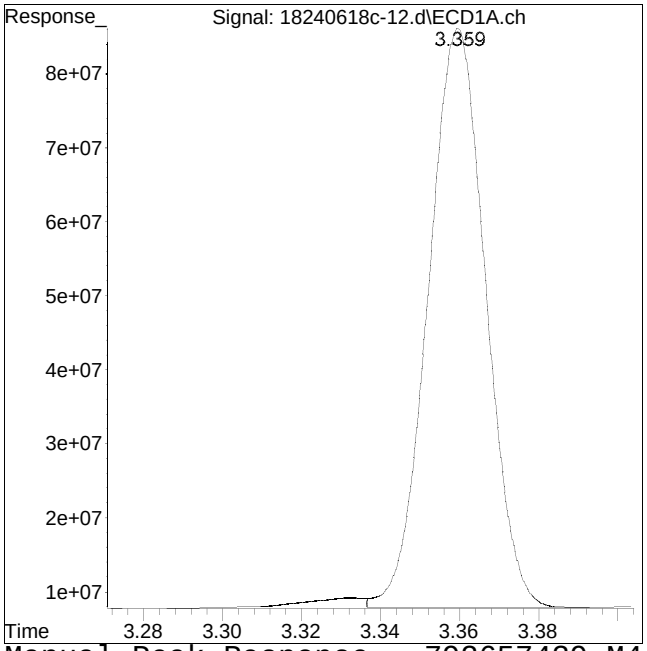
Original Peak Response = 474517353 Manual Peak Response = 462743629 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #9: Aldrin



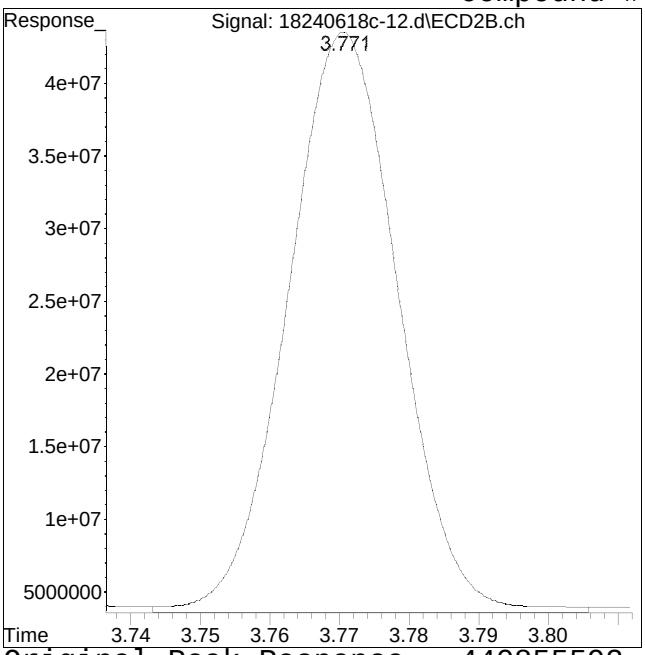


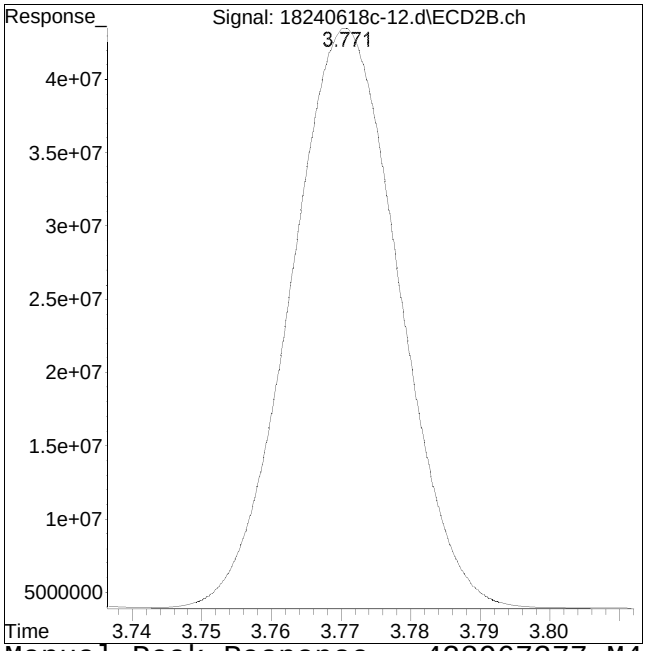
Original Peak Response = 828550185 Manual Peak Response = 792657439 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #47: Aldrin #2



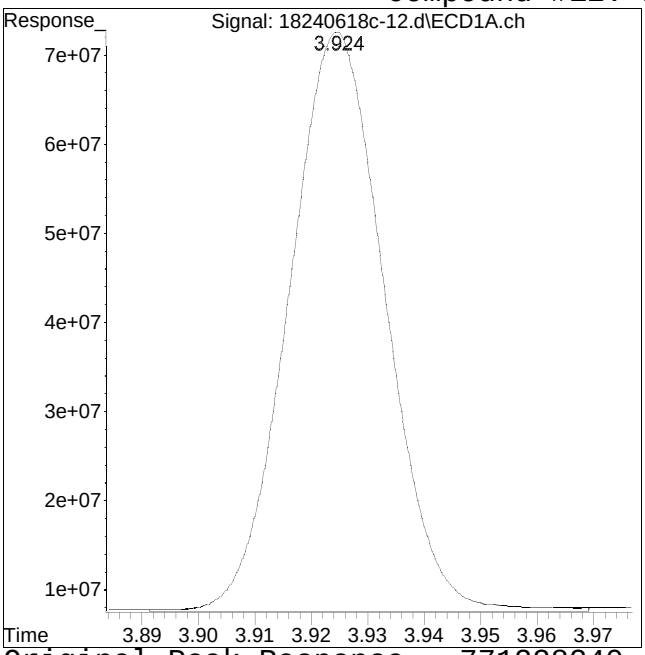


Original Peak Response = 440855592 Manual Peak Response = 428967377 M4
M4 = Poor automated baseline construction.

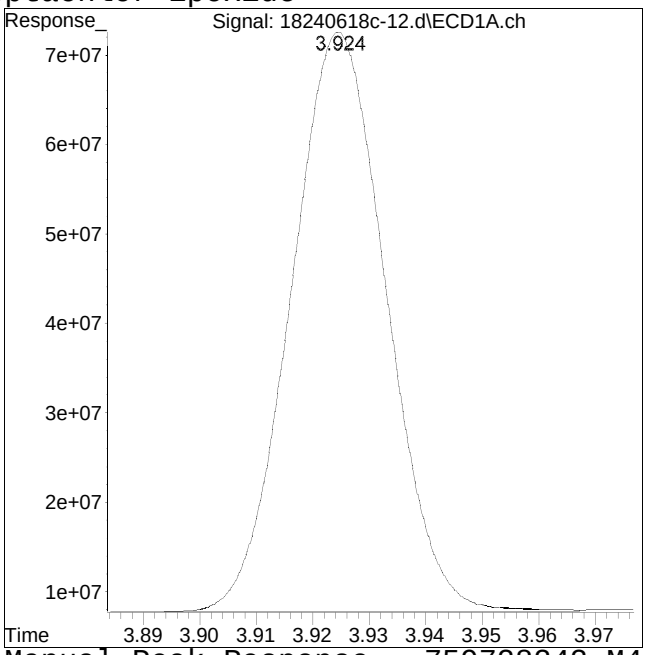
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 771228240



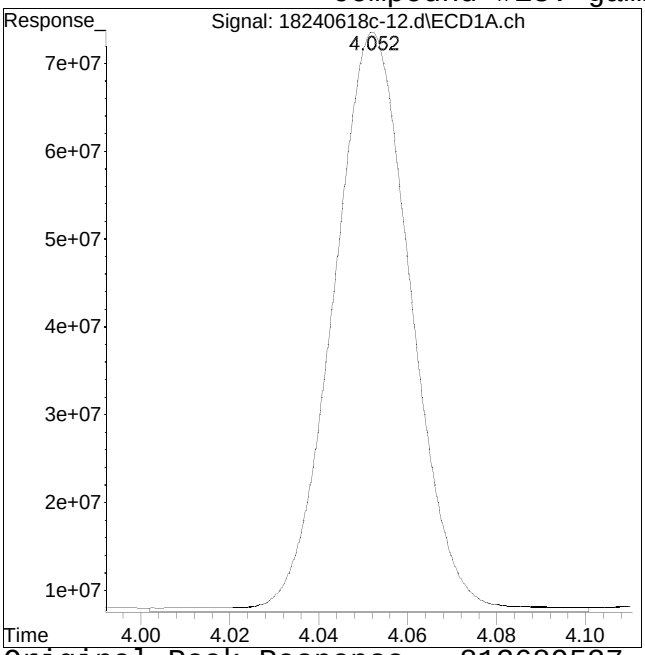
Manual Peak Response = 759728242 M4

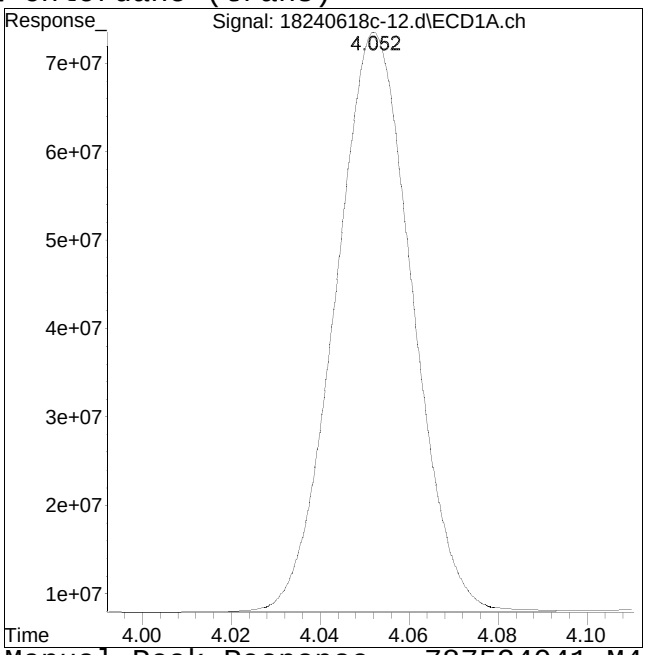
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #13: gamma-Chlordane (trans)



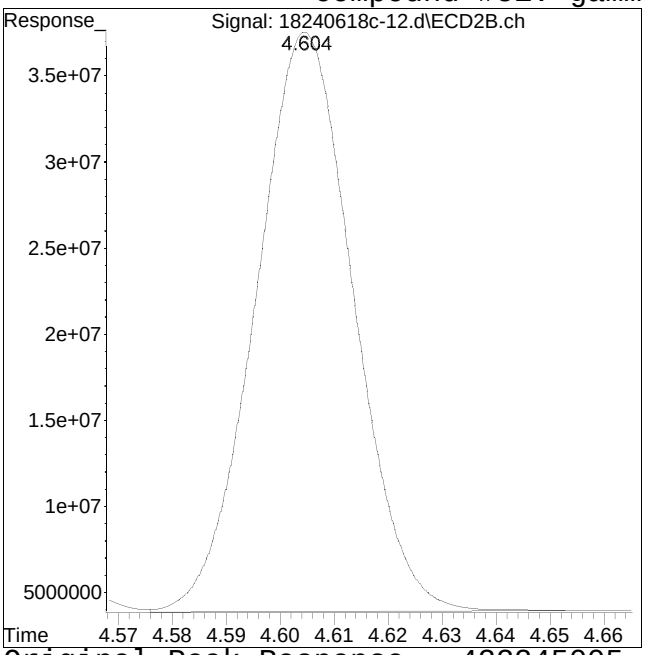


Original Peak Response = 813689537 Manual Peak Response = 787524041 M4
M4 = Poor automated baseline construction.

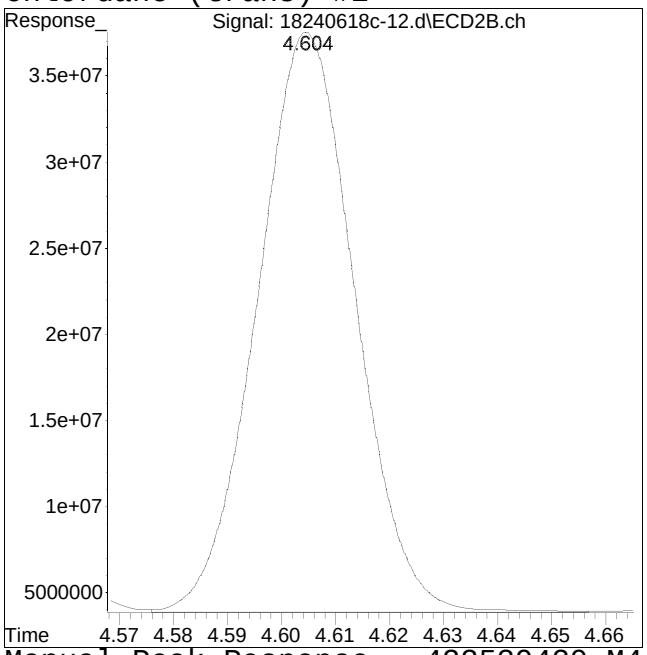
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 422245005



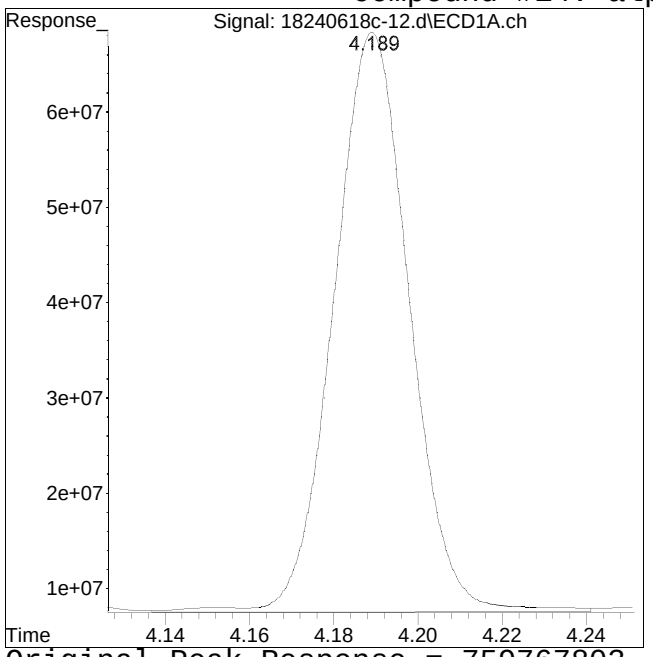
Manual Peak Response = 422539420 M4

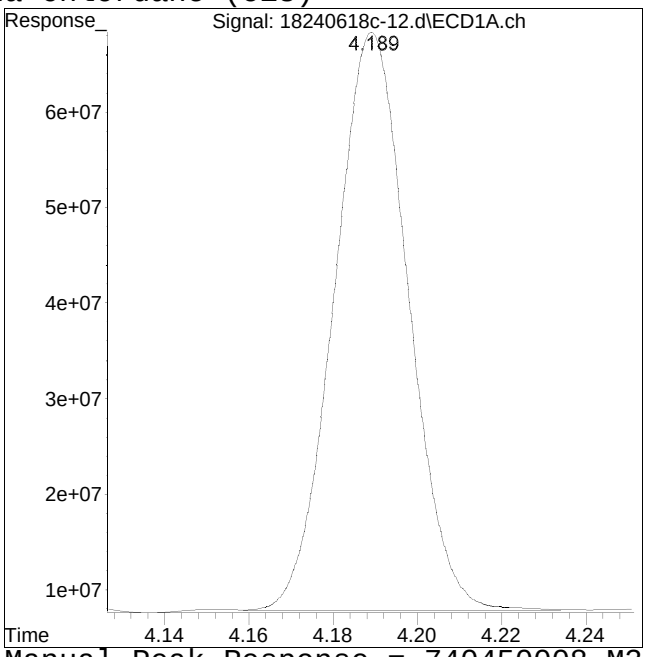
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #14: alpha-Chlordane (cis)



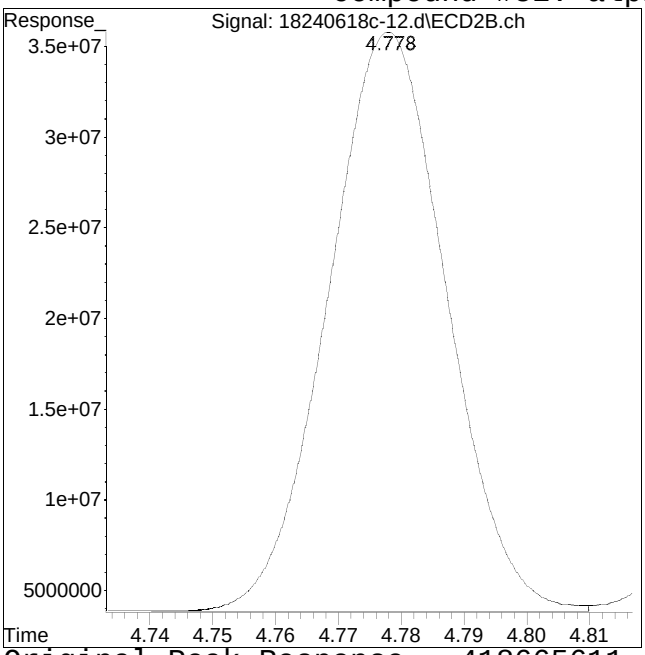


Original Peak Response = 759767803 Manual Peak Response = 740450008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

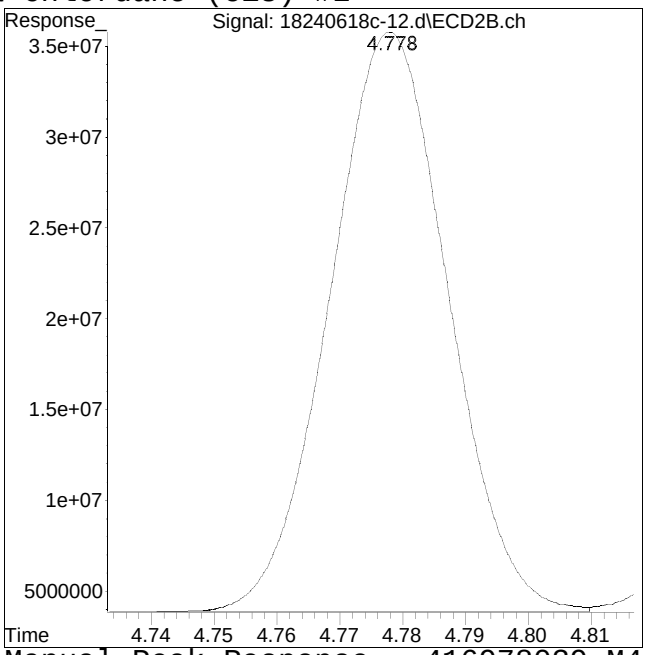
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 418665611



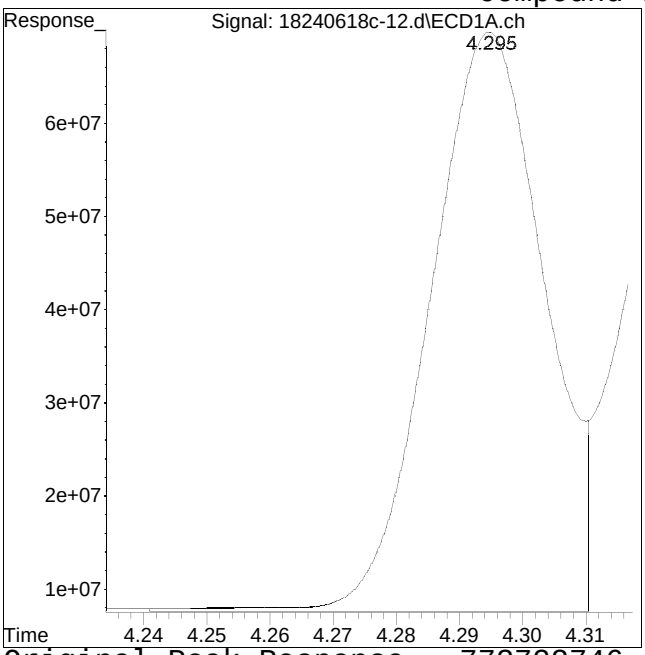
Manual Peak Response = 416978039 M4

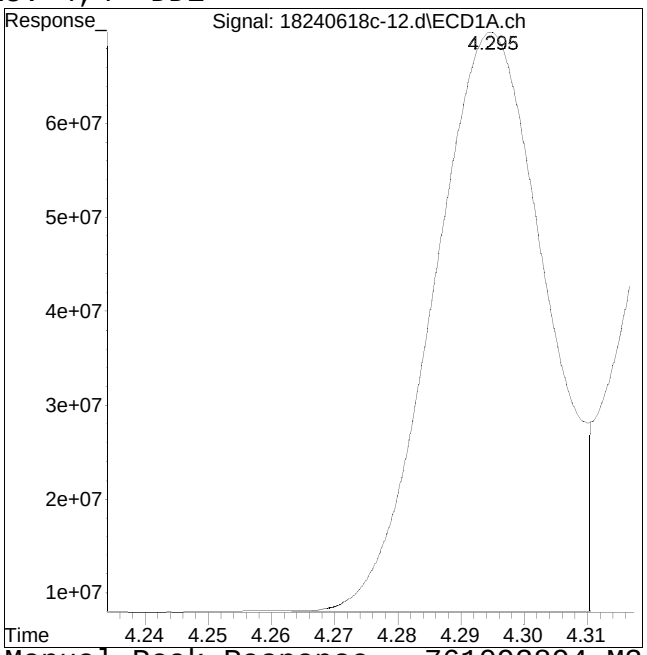
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #15: 4,4'-DDE



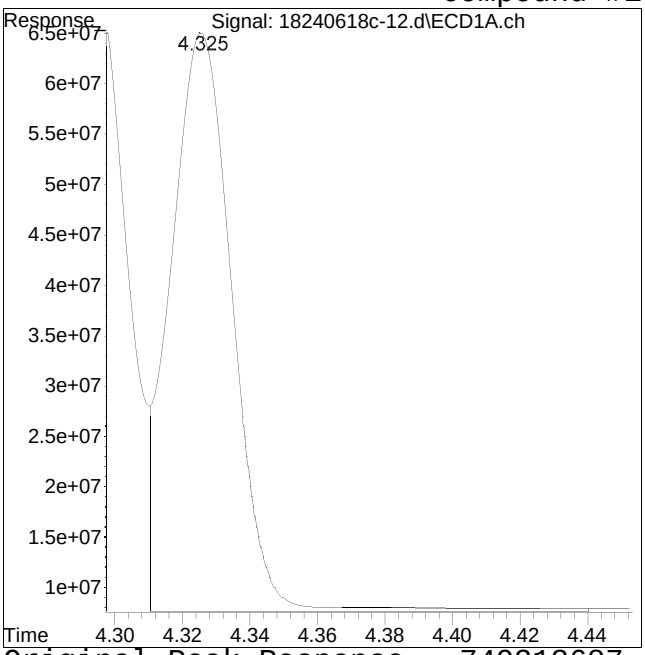


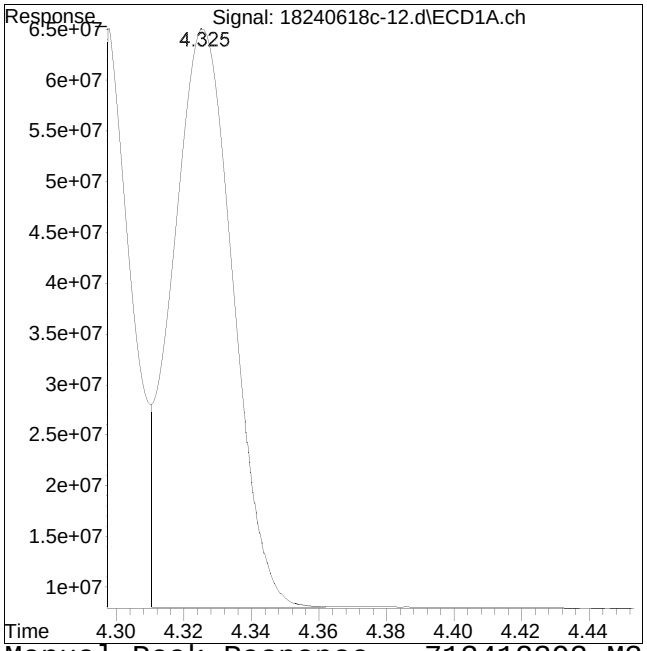
Original Peak Response = 773722746 Manual Peak Response = 761093894 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #16: Endosulfan I



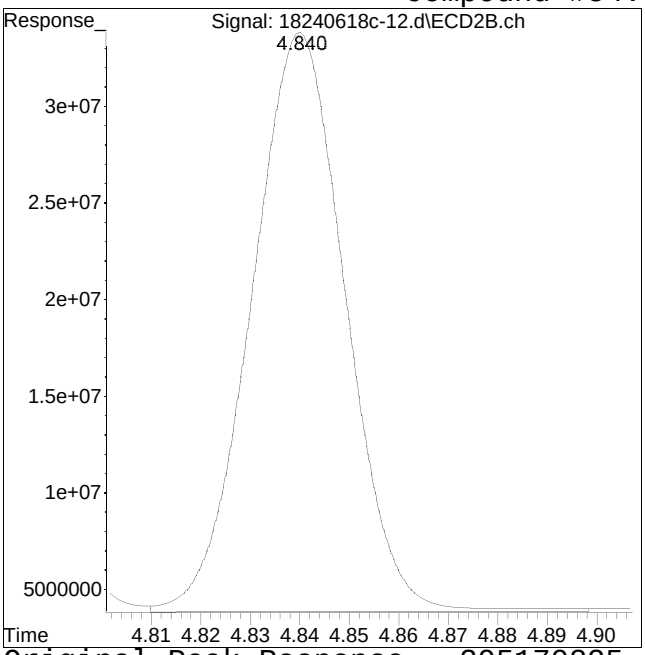


Original Peak Response = 749313687 Manual Peak Response = 713412393 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

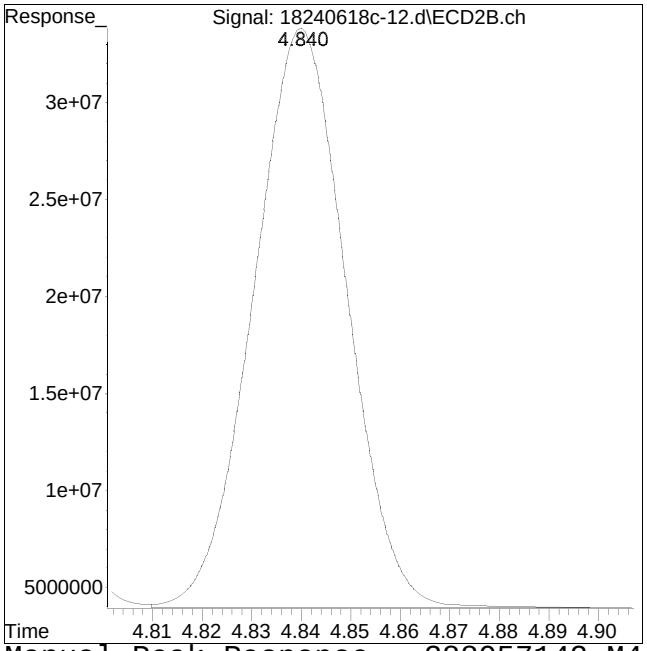
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #54: Endosulfan I #2



Original Peak Response = 395170225



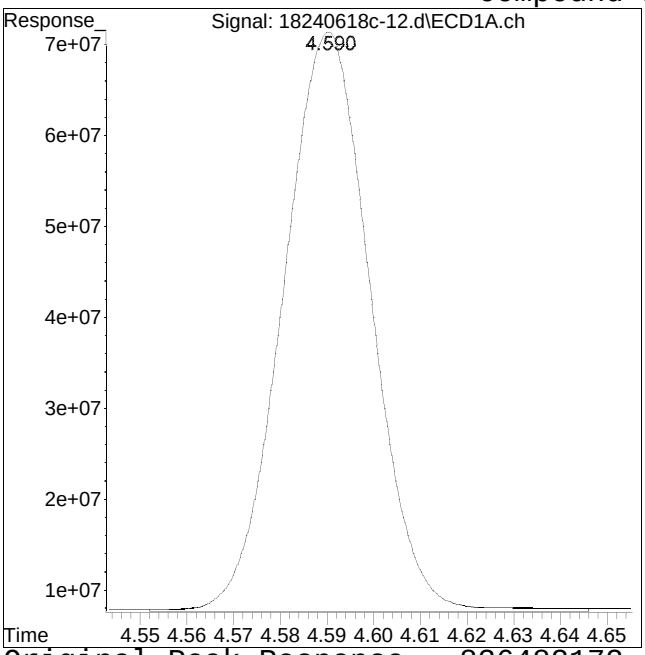
Manual Peak Response = 388957142 M4

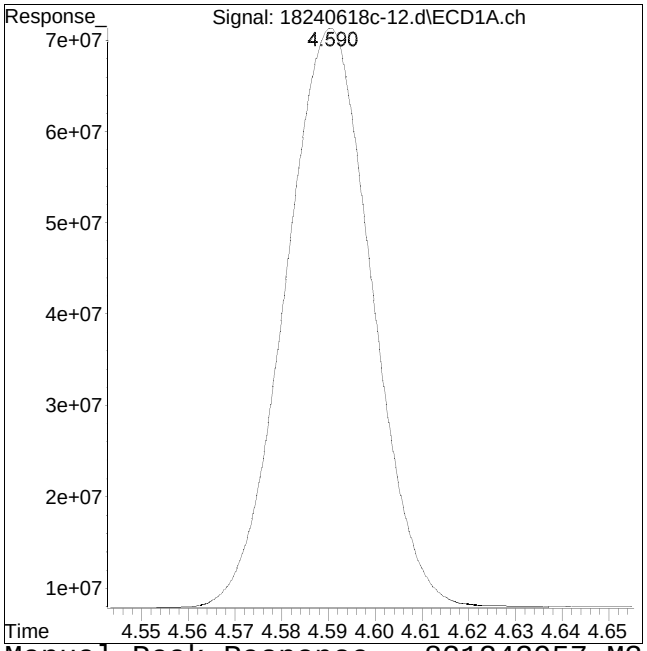
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #17: Dieldrin



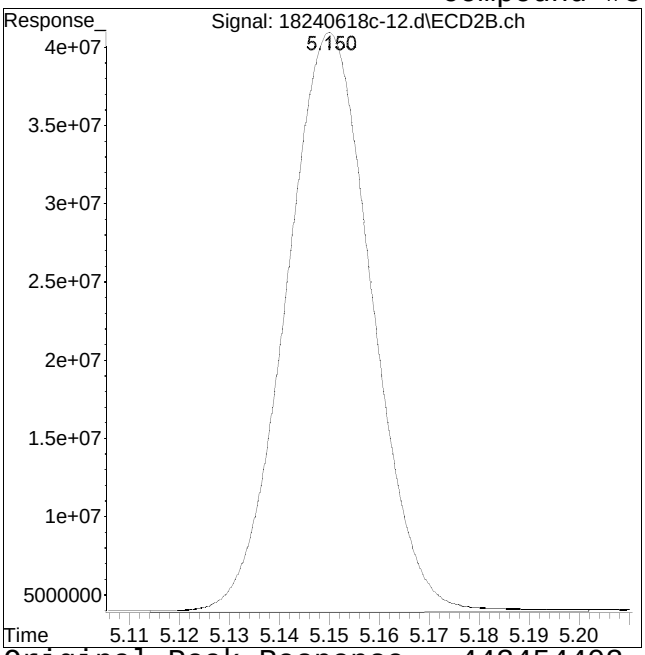


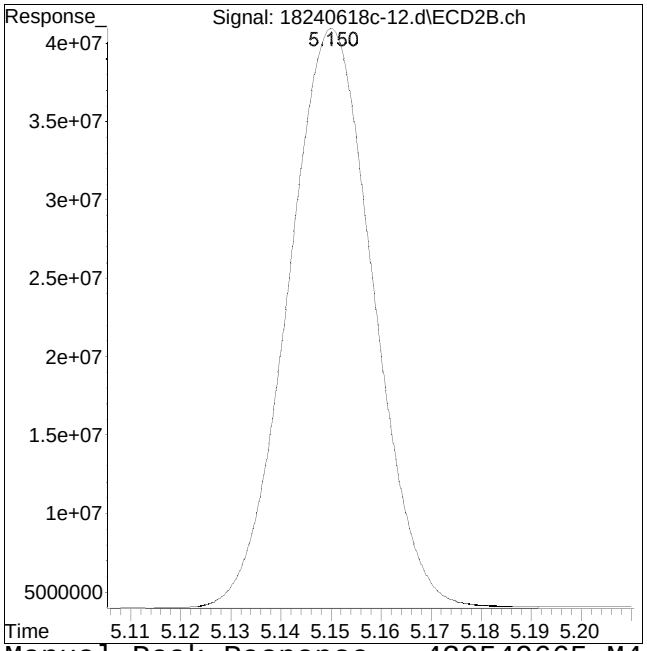
Original Peak Response = 836482172 Manual Peak Response = 821243957 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #55: Dieldrin #2



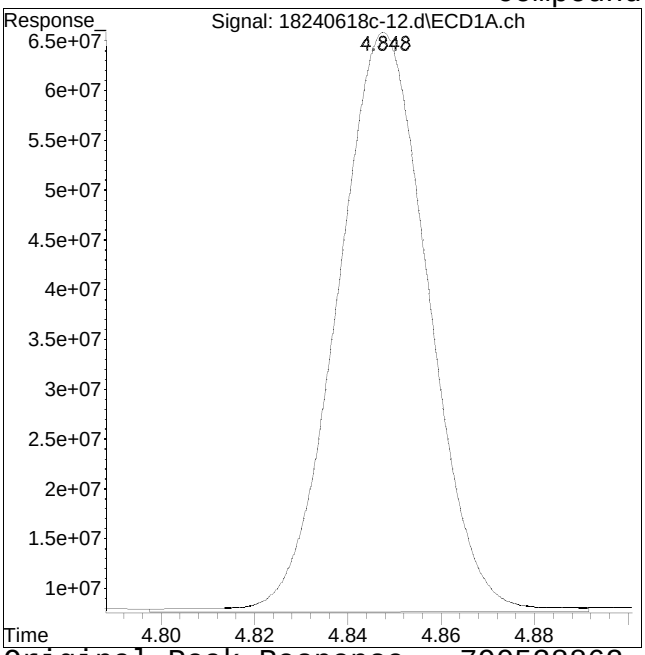


Original Peak Response = 443454403 Manual Peak Response = 438549665 M4
M4 = Poor automated baseline construction.

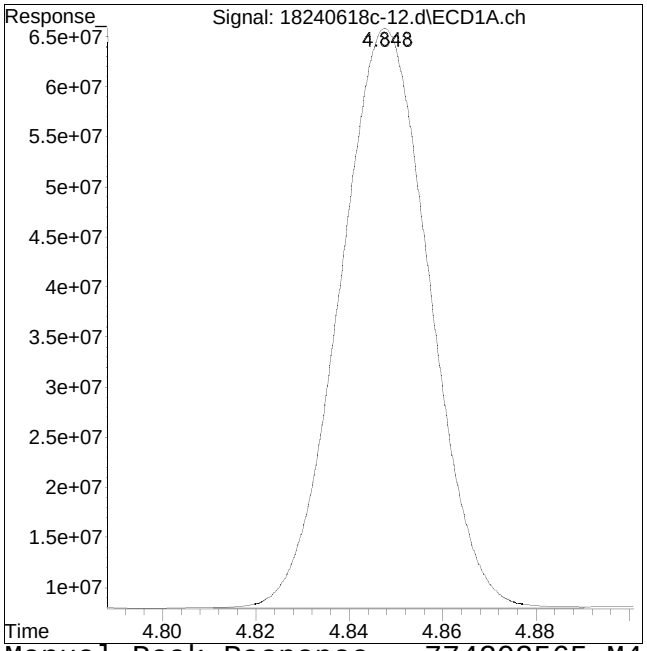
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #18: Endrin



Original Peak Response = 790538862



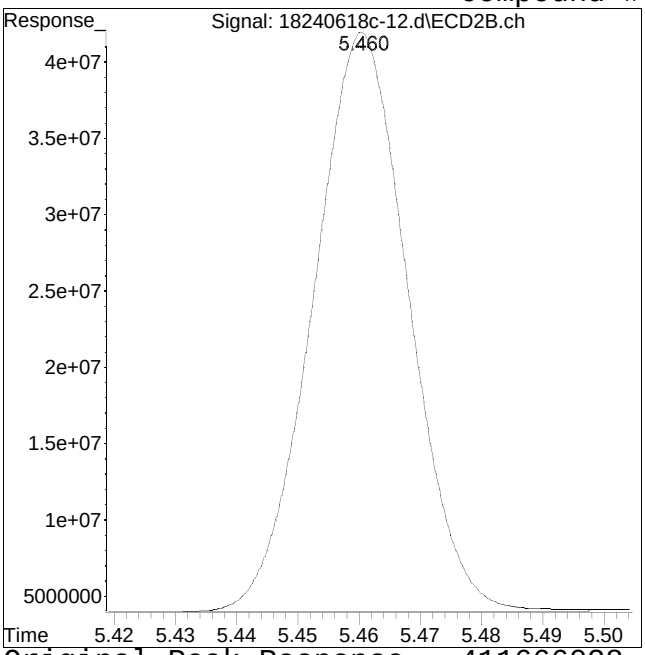
Manual Peak Response = 774203565 M4

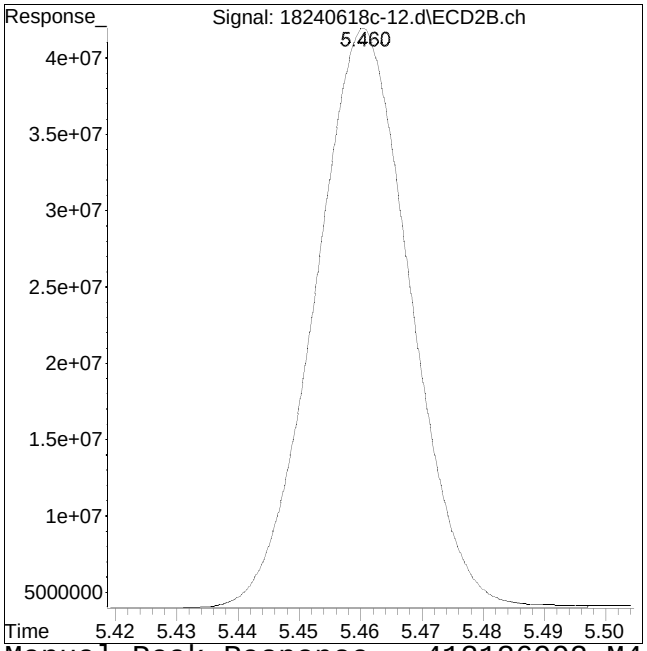
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #56: Endrin #2



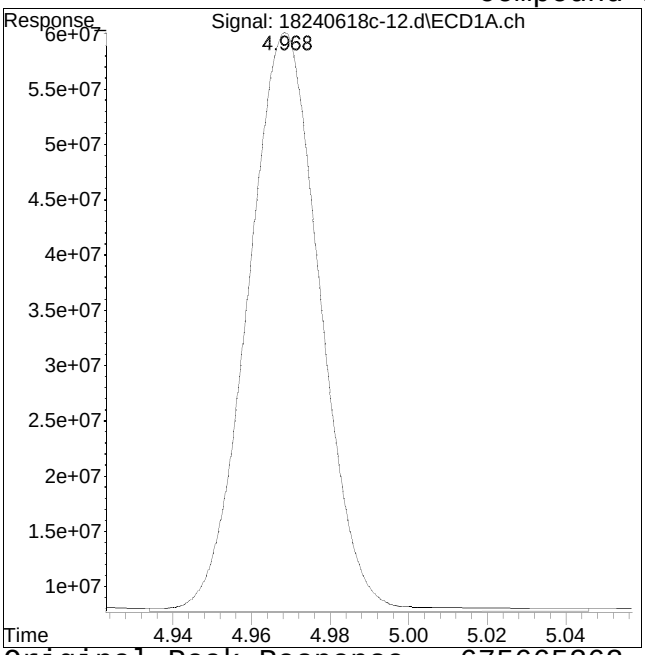


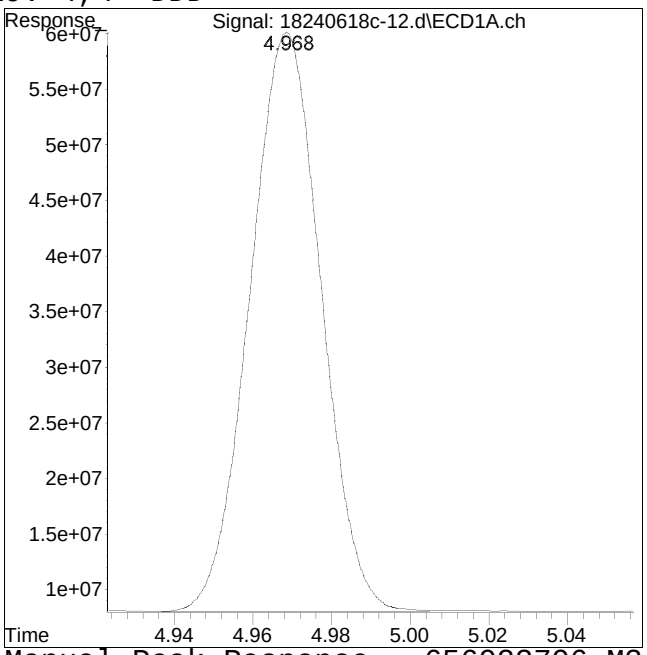
Original Peak Response = 411666028 Manual Peak Response = 412136992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #19: 4,4'-DDD



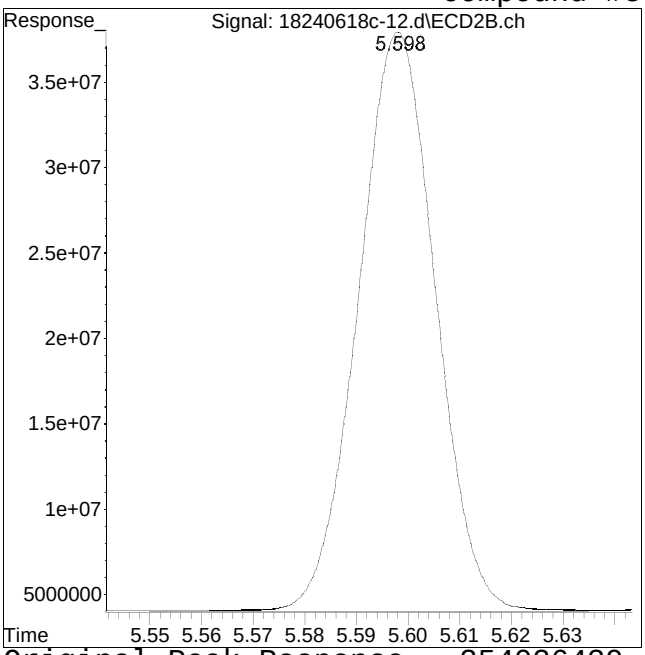


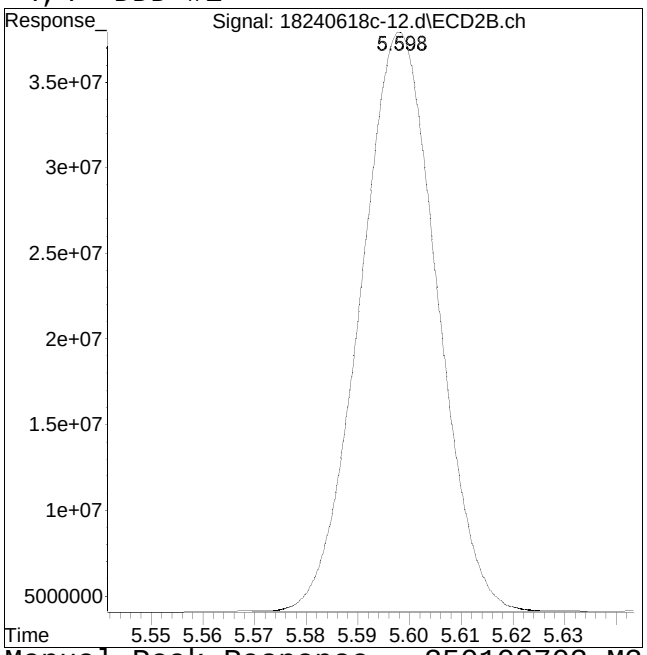
Original Peak Response = 675665362 Manual Peak Response = 656923796 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #57: 4,4'-DDD #2



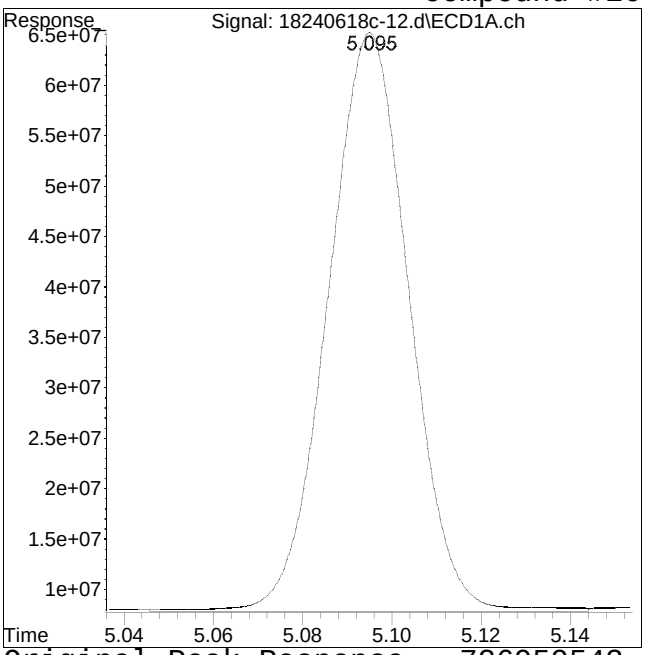


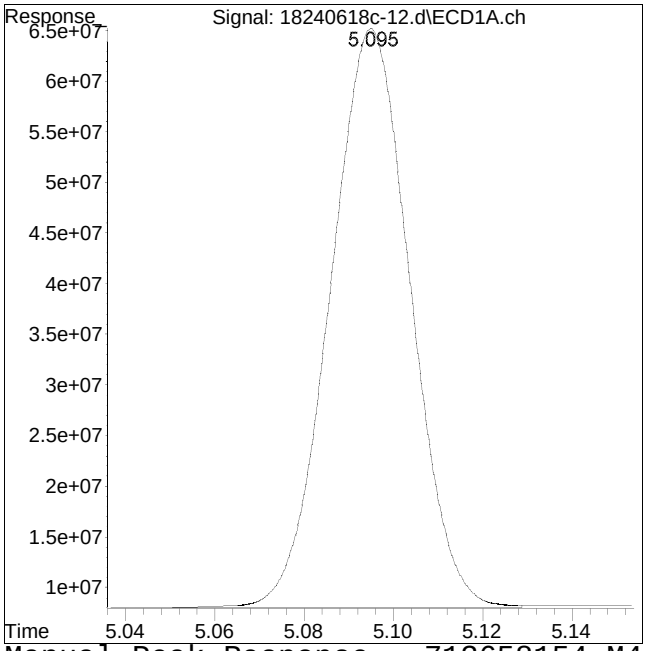
Original Peak Response = 354026439 Manual Peak Response = 350108703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #20: Endosulfan II



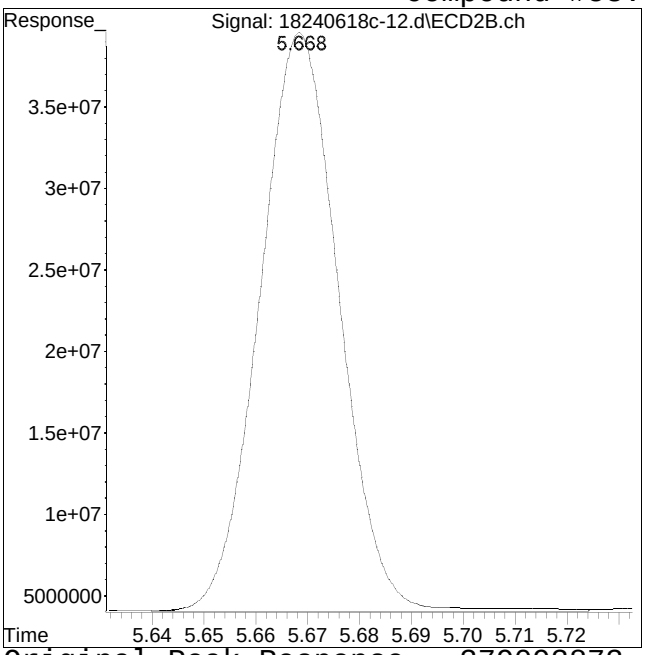


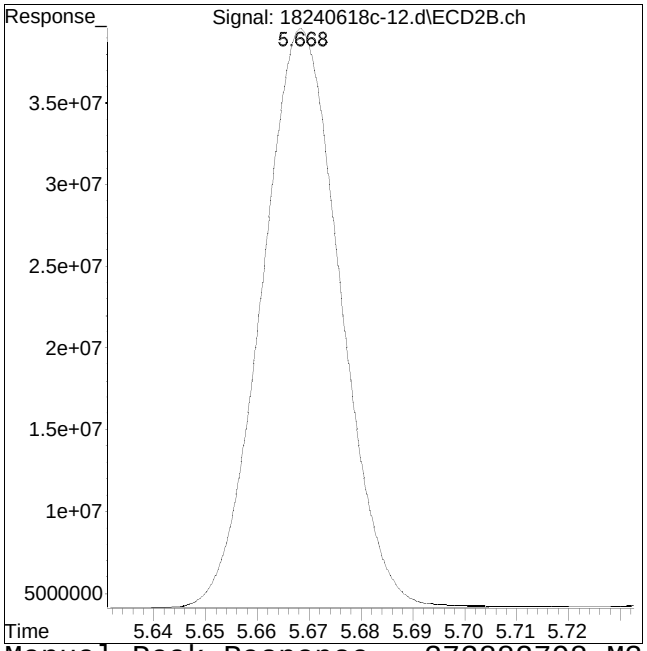
Original Peak Response = 726959543 Manual Peak Response = 713658154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #58: Endosulfan II #2



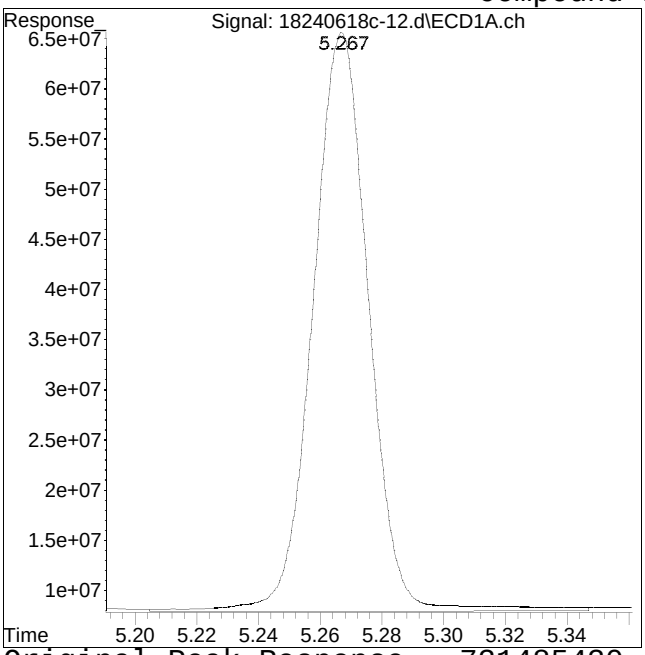


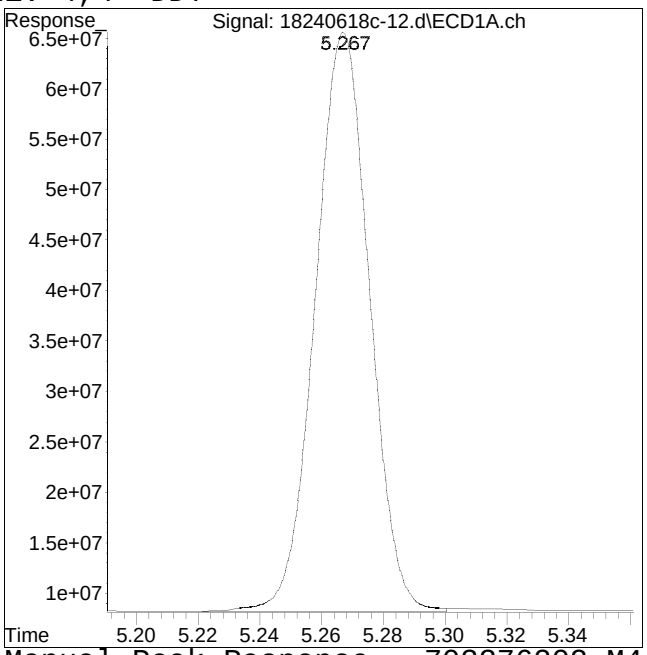
Original Peak Response = 379093873 Manual Peak Response = 373882798 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #21: 4,4'-DDT



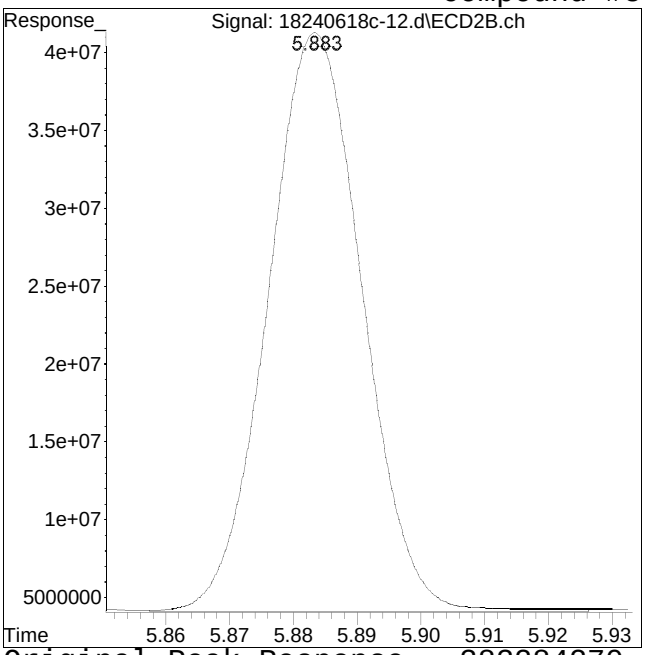


Original Peak Response = 731485430 Manual Peak Response = 703376202 M4
M4 = Poor automated baseline construction.

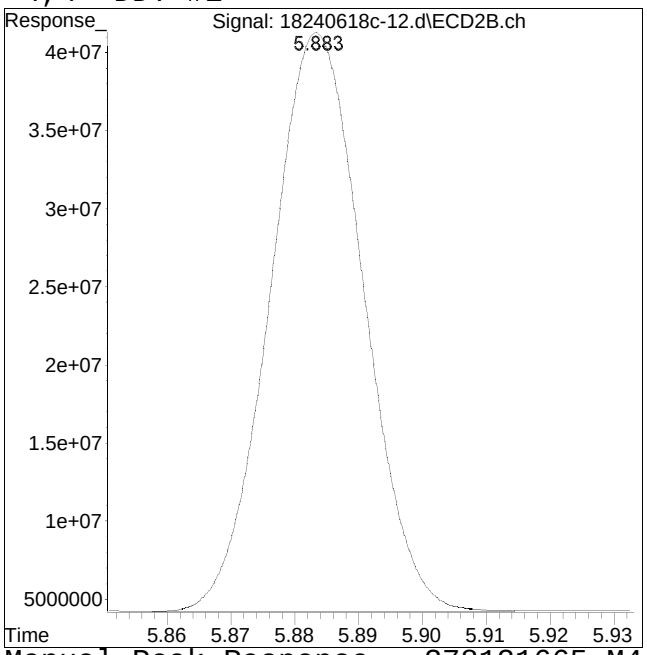
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 383284270



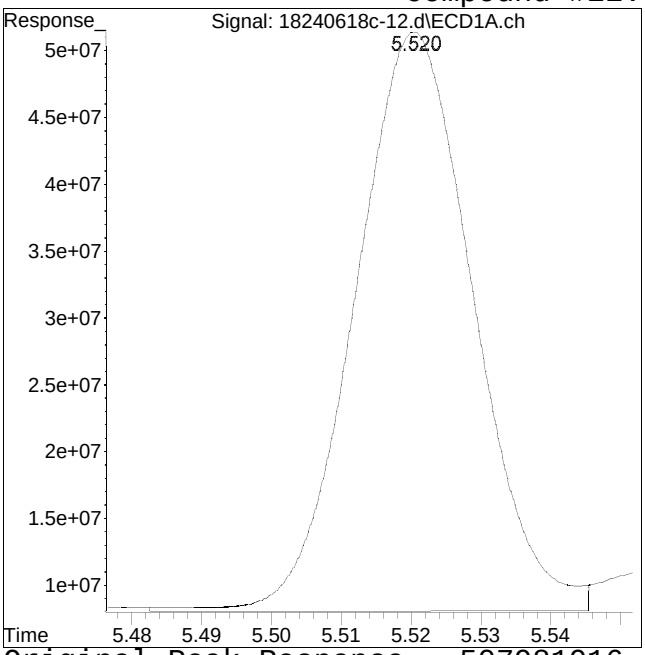
Manual Peak Response = 378121665 M4

M4 = Poor automated baseline construction.

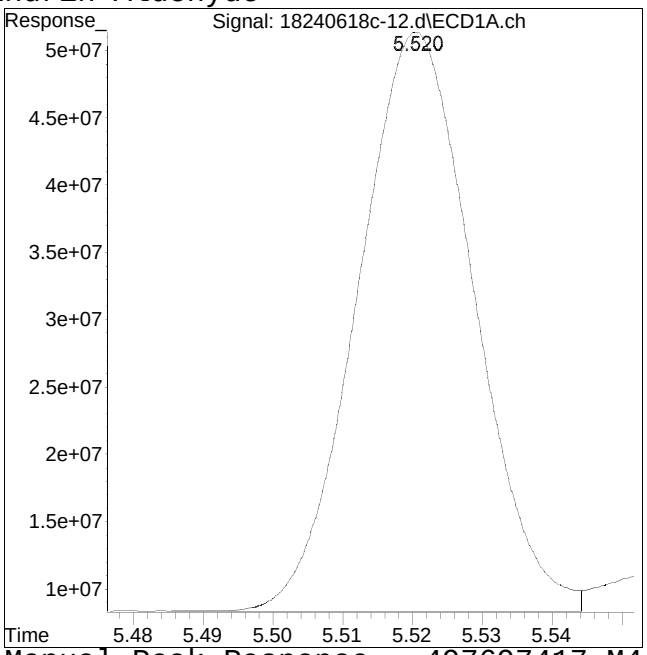
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 507981916



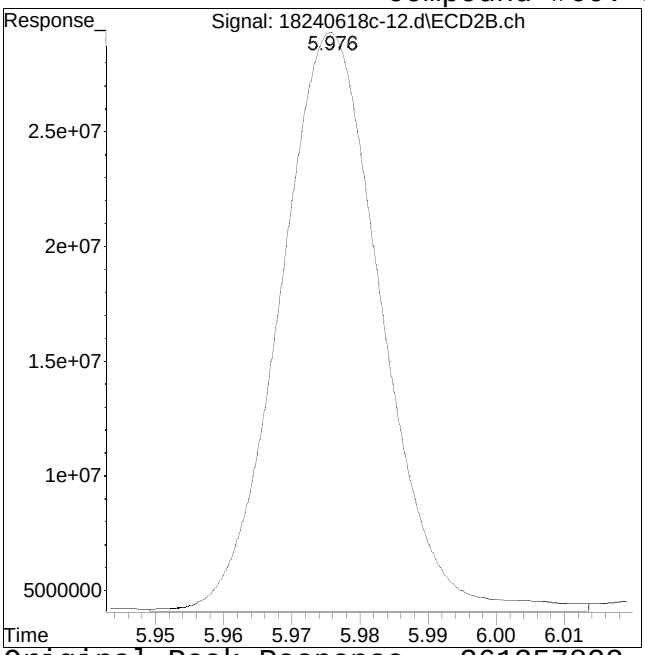
Manual Peak Response = 497697417 M4

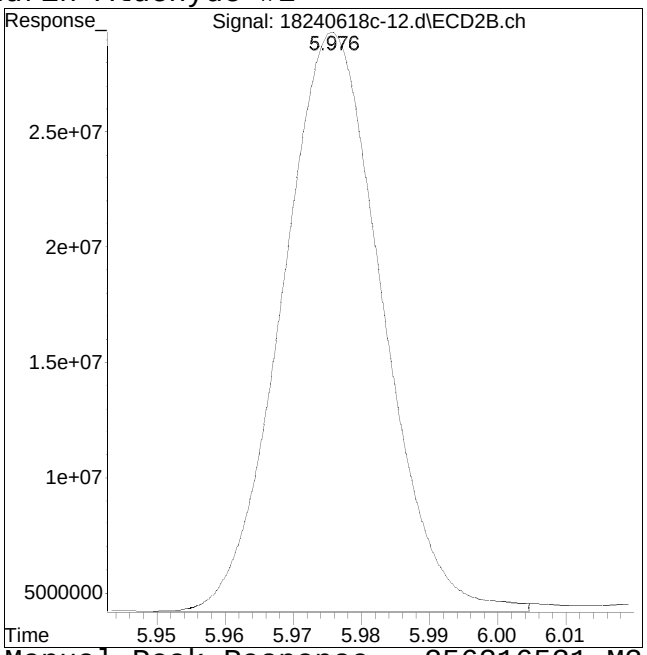
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #60: Endrin Aldehyde #2



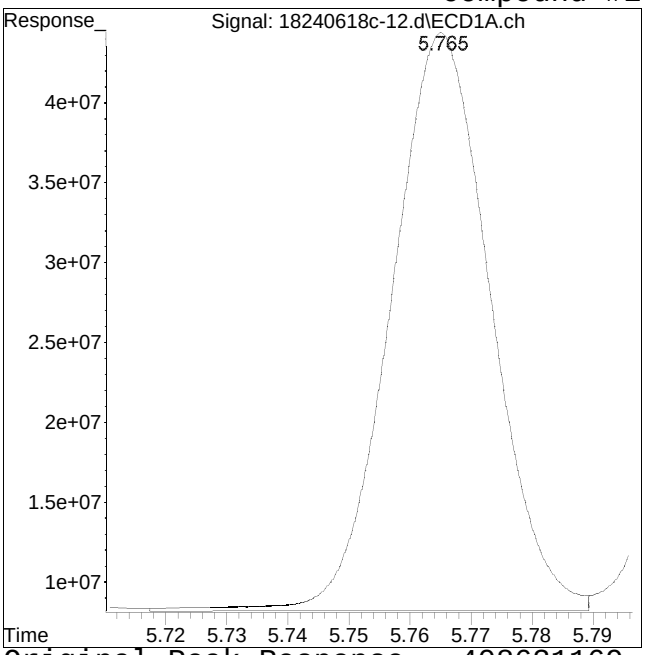


Original Peak Response = 261357822 Manual Peak Response = 256316531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

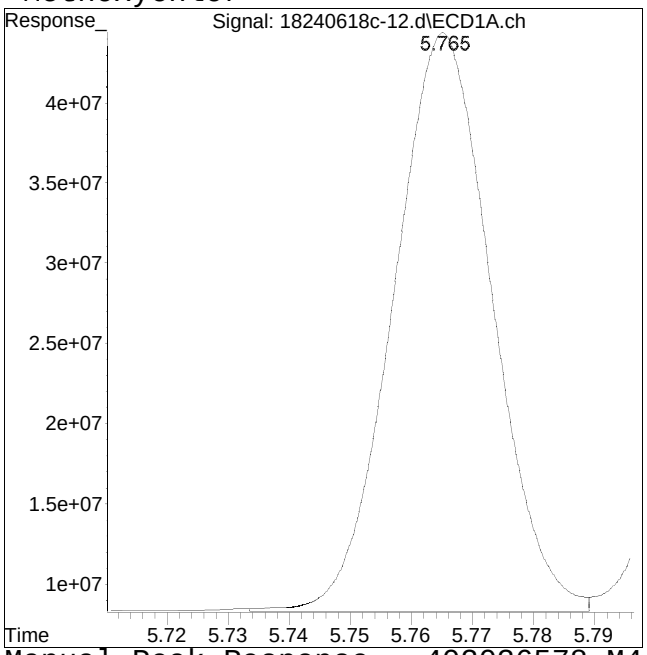
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #23: Methoxychlor



Original Peak Response = 408631169



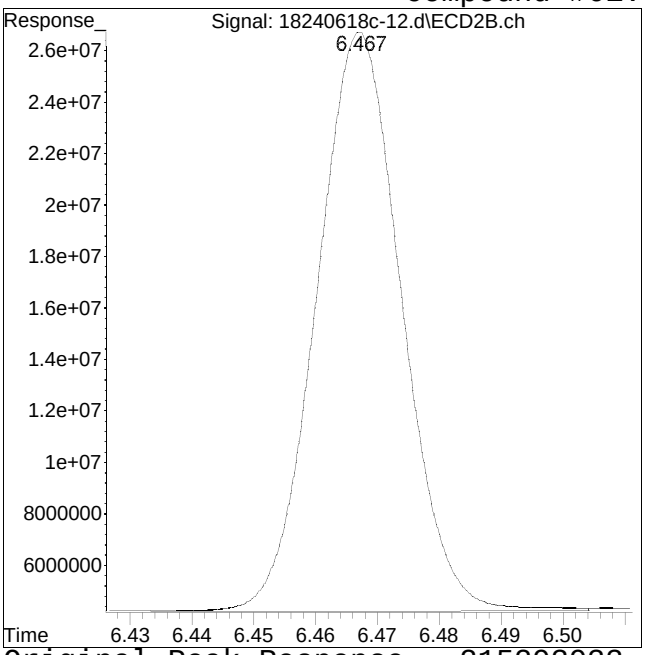
Manual Peak Response = 402036578 M4

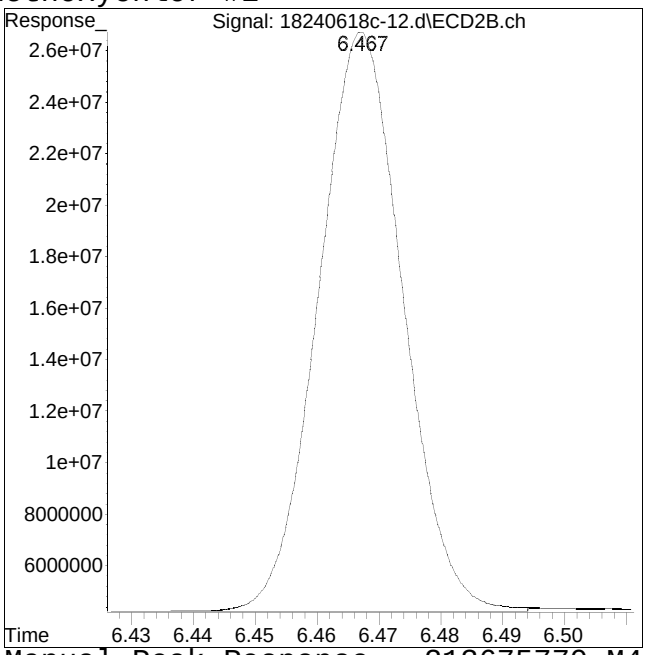
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #61: Methoxychlor #2



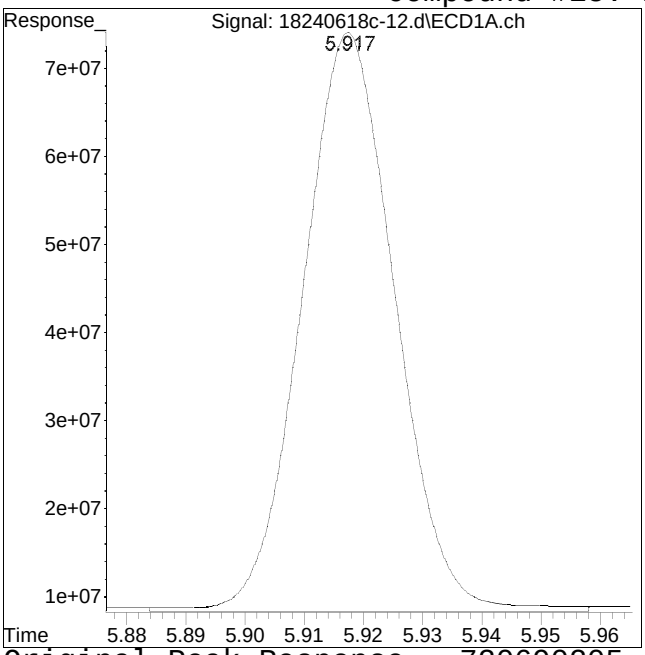


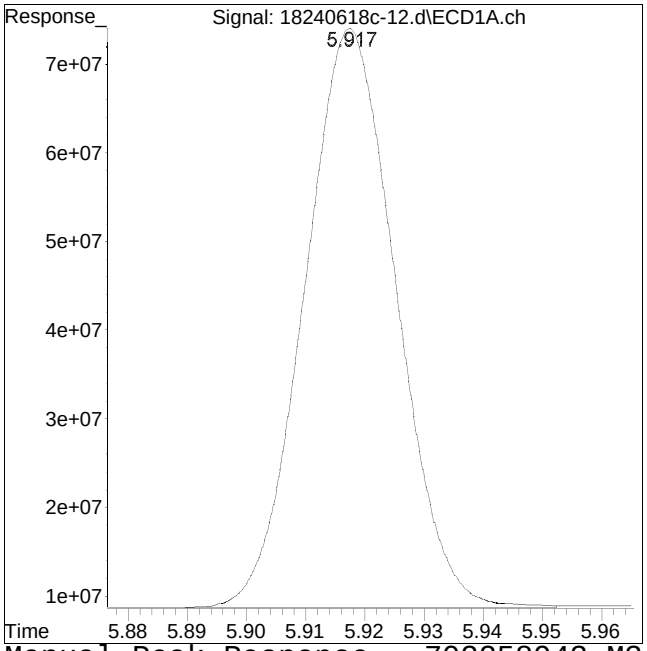
Original Peak Response = 215293933 Manual Peak Response = 213675770 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #25: Endosulfan Sulfate



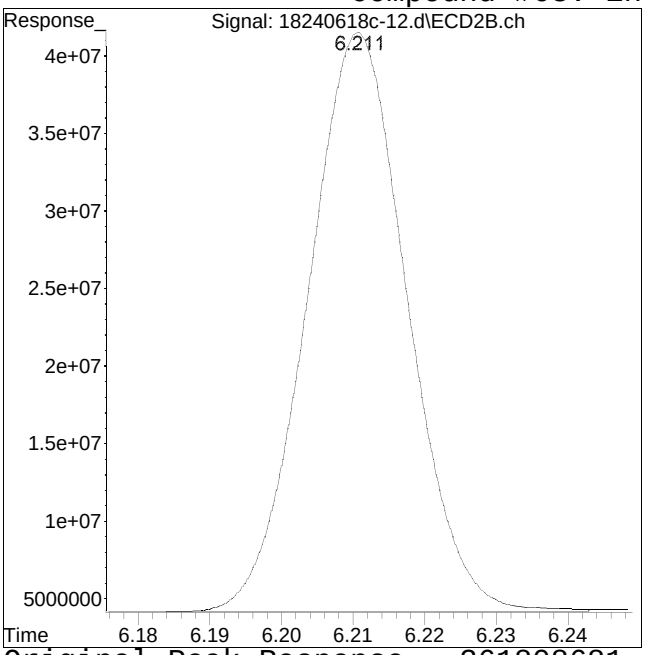


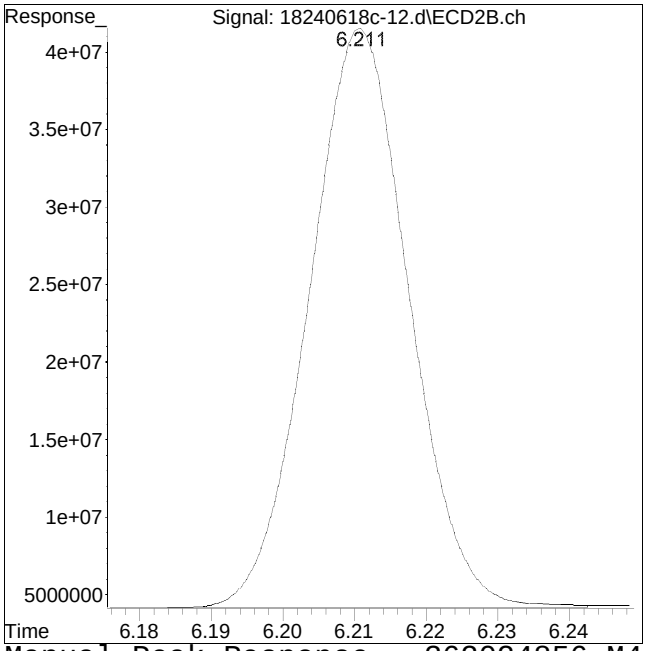
Original Peak Response = 720690205 Manual Peak Response = 702258943 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #63: Endosulfan Sulfate #2



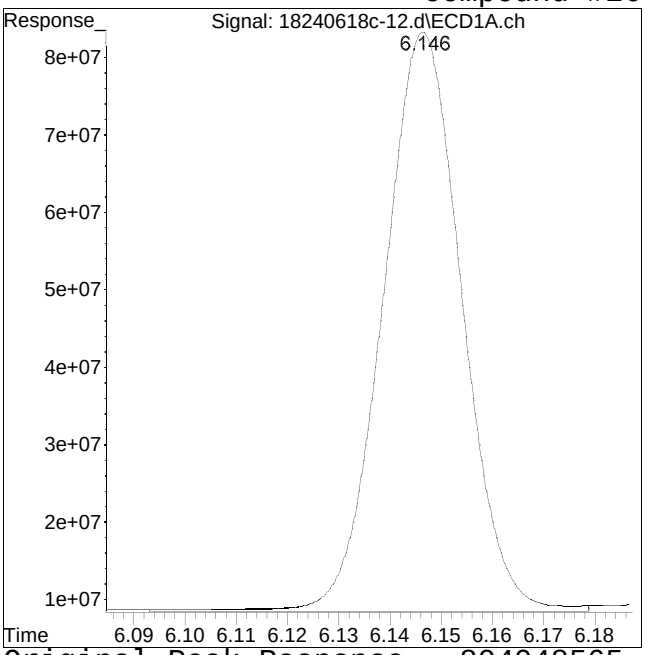


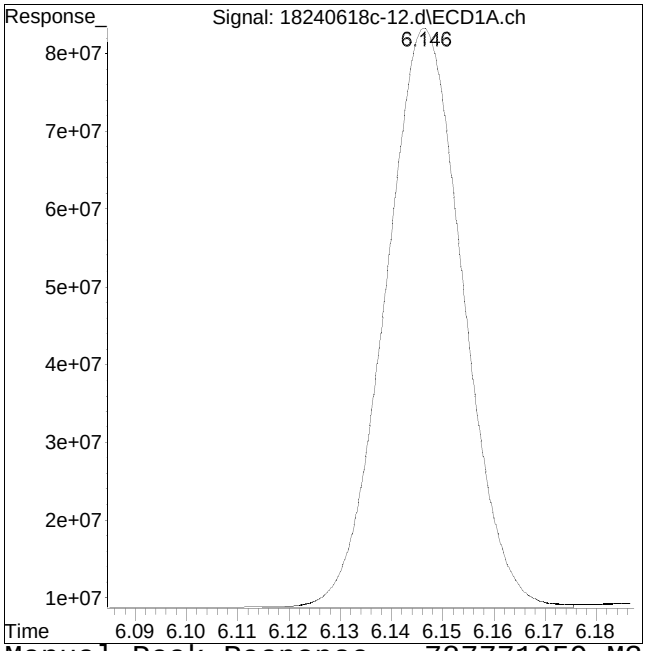
Original Peak Response = 361808681 Manual Peak Response = 362024856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #26: Endrin Ketone



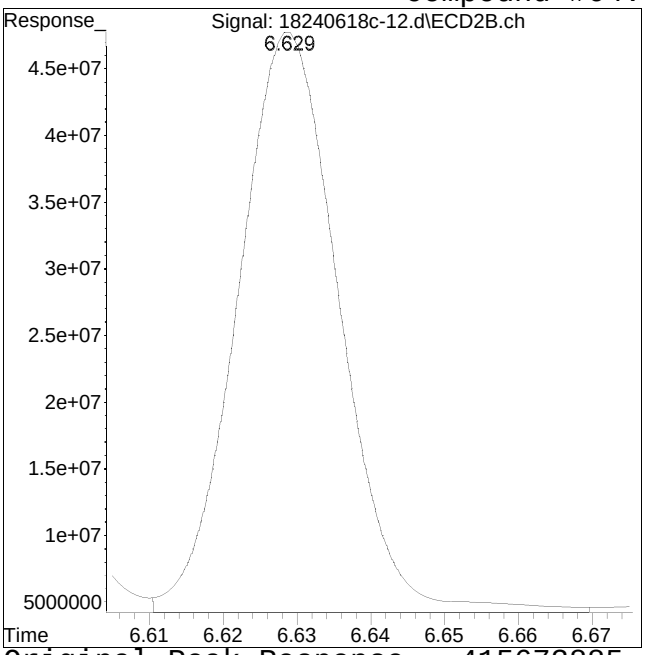


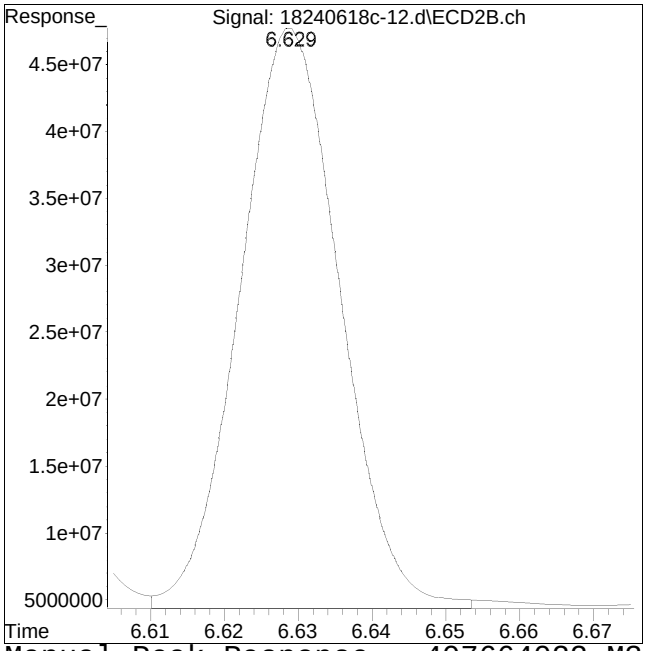
Original Peak Response = 804048565 Manual Peak Response = 787771859 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #64: Endrin Ketone #2



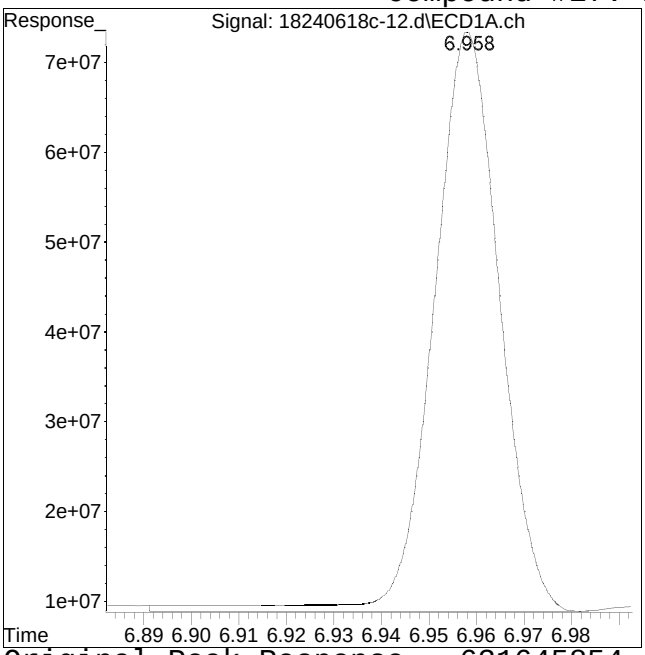


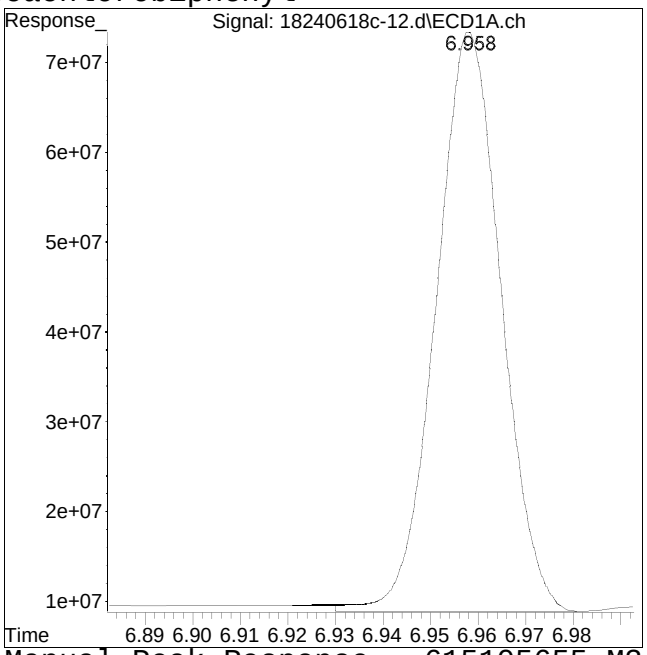
Original Peak Response = 415673885 Manual Peak Response = 407664022 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #27: Decachlorobiphenyl



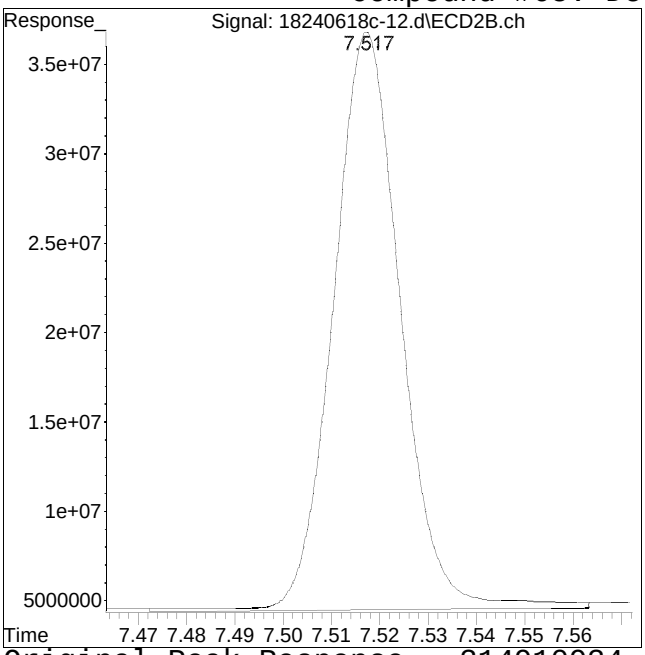


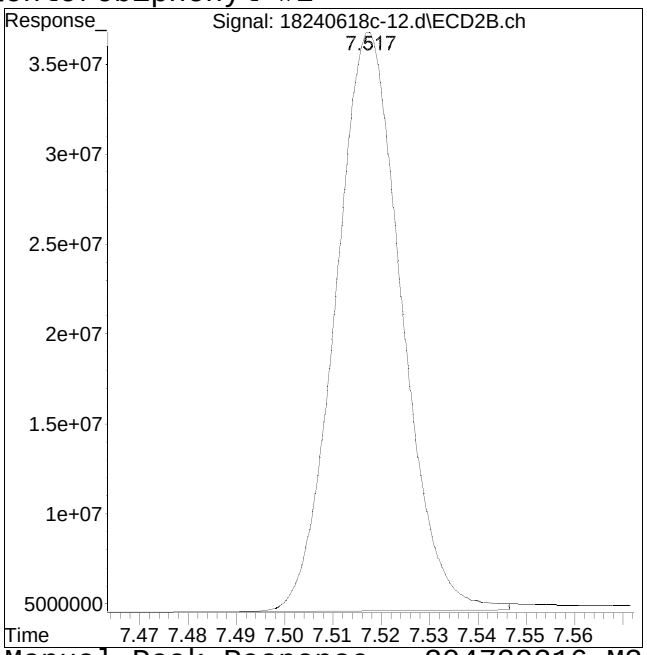
Original Peak Response = 631645854 Manual Peak Response = 615105655 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-12.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:36 Instrument : Pest 18
Sample : WG1934990-4,42,, ms Quant Date : 6/18/2024 3:33 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 314910934 Manual Peak Response = 304739216 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:48
Operator : PEST18:mmg
Sample : WG1934990-5,42,, msd
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.720	1.776	487.2E6	253.2E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 451933897				Recovery = 107.79%		
	Standard Area 1 : #2 = 223085596				Recovery = 113.51%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.157	2.325	677.7E6	347.6E6	35.254M3	34.628M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	70.51%	69.26%	
27) s	Decachlorobi	6.958	7.517	663.6E6	331.0E6	41.289M4	45.690M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =	82.58%	91.38%	
Target Compounds							
4)	alpha-BHC	2.515	2.767	1018.6E6	520.4E6	40.369M3	40.163M4
5)	gamma-BHC (l	2.736	3.058	913.2E6	480.4E6	38.596M4	39.224M3
6)	beta-BHC	2.802	3.130	441.0E6	222.7E6	44.593M4	41.676M4
7)	delta-BHC	2.937	3.396	919.4E6	457.2E6	38.771M3	37.085M3
8)	Heptachlor	3.106	3.454	915.8E6	486.8E6	38.928M3	40.166M4
9)	Aldrin	3.359	3.770	842.2E6	454.6E6	39.915M3	42.207M4
12)	Heptachlor E	3.924	4.385	813.8E6	437.3E6	40.120M4	41.738
13)	gamma-Chlord	4.051	4.604	838.8E6	447.1E6	44.059M3	46.636M4
14)	alpha-Chlord	4.189	4.777	793.3E6	443.4E6	37.875M3	40.991M4
15)	4,4'-DDE	4.294	4.996	810.1E6	431.9E6	40.782M3	42.692M3
16)	Endosulfan I	4.325	4.840	745.9E6	416.2E6	38.843M3	41.559M4
17)	Dieldrin	4.589	5.150	879.5E6	466.8E6	44.123M3	46.099M4
18)	Endrin	4.847	5.460	833.2E6	441.4E6	40.410M4	44.520M4
19)	4,4'-DDD	4.968	5.598	692.6E6	373.6E6	42.448M4	44.257M3
20)	Endosulfan I	5.094	5.668	769.1E6	399.2E6	42.658M4	43.022M4
21)	4,4'-DDT	5.266	5.883	750.5E6	405.1E6	42.109M3	41.700M4

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:48
Operator : PEST18:mmg
Sample : WG1934990-5,42,, msd
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2024\240618C\18240618c-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) Endrin Aldeh	5.520	5.975	537.8E6	274.4E6	39.744M4	38.437M4
23) Methoxychlor	5.765	6.466	432.2E6	229.1E6	51.200M4	48.849M4
25) Endosulfan S	5.917	6.210	755.4E6	388.2E6	42.523M3	43.483M4
26) Endrin Keton	6.146	6.628	841.7E6	436.1E6	42.939M4	42.672M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

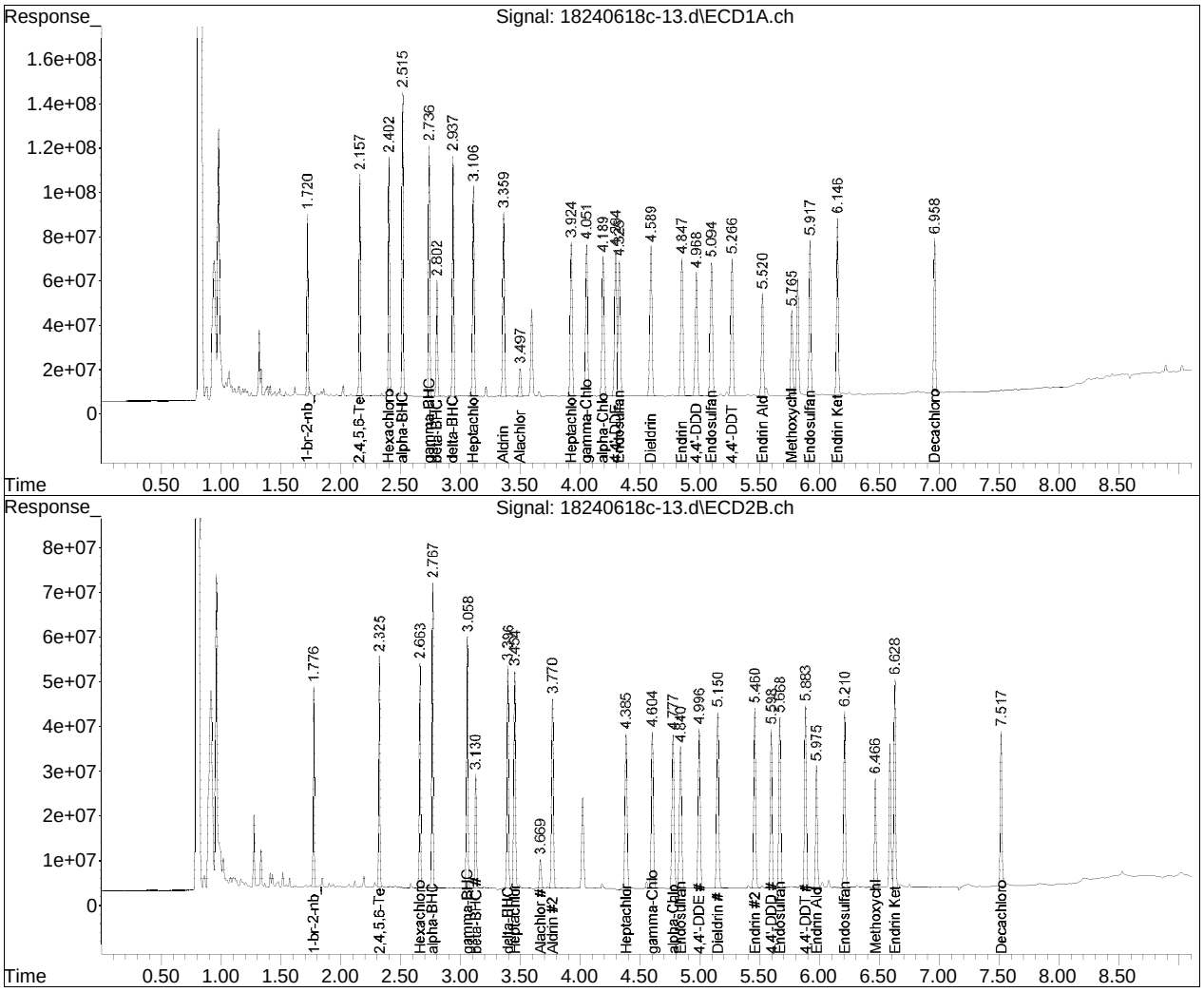
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only8\2024\240618C\18240618c-03.d•

Data Path : I:\PEST\Pest18\2024\240618C\
Data File : 18240618c-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 14:48
Operator : PEST18:mmg
Sample : WG1934990-5,42,, msd
Misc : wg1935928,WG1934990,ical20912
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 18 15:34:01 2024
Quant Method : I:\PEST\Pest18\2024\240618C\pest18_2024_02_22_ugL_ICAL20912.m
Quant Title : pest
QLast Update : Tue Jun 18 13:19:27 2024
Response via : Initial Calibration
Integrator: ChemStation

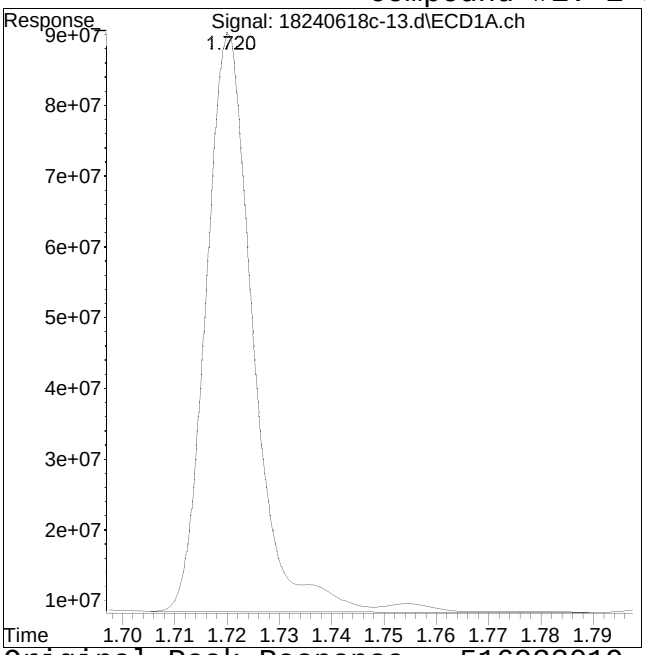
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

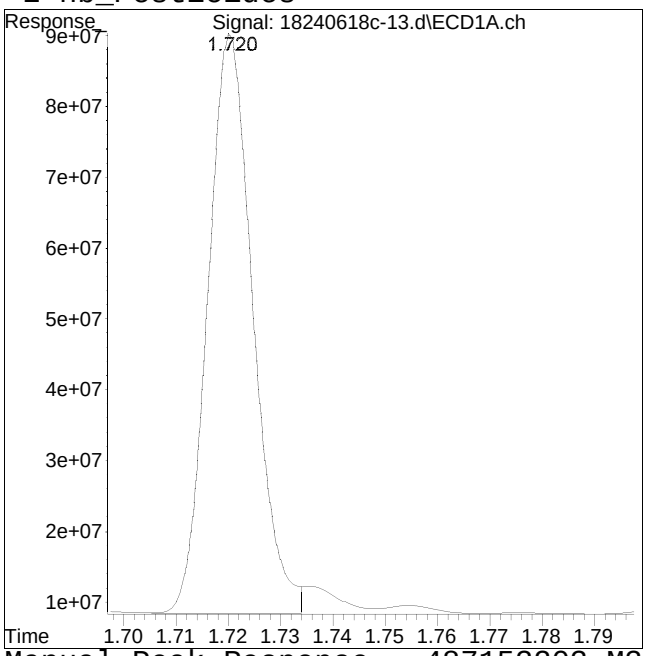


Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #1: 1-br-2-nb_Pesticides



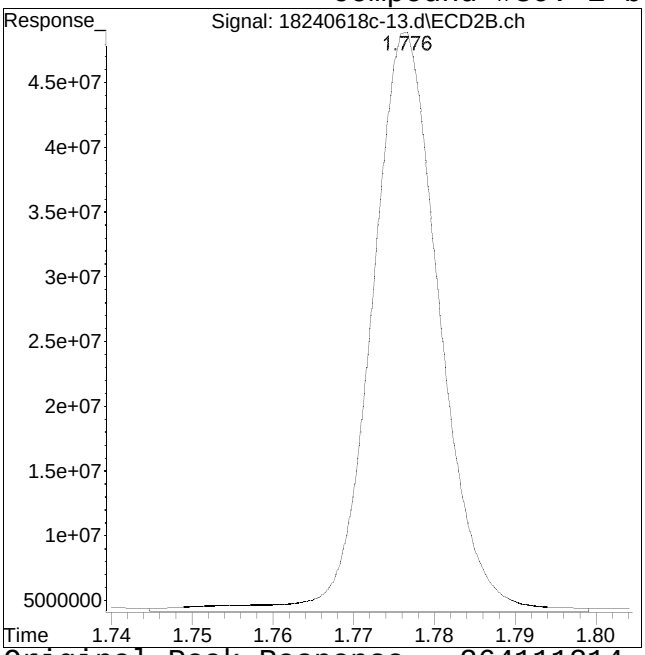


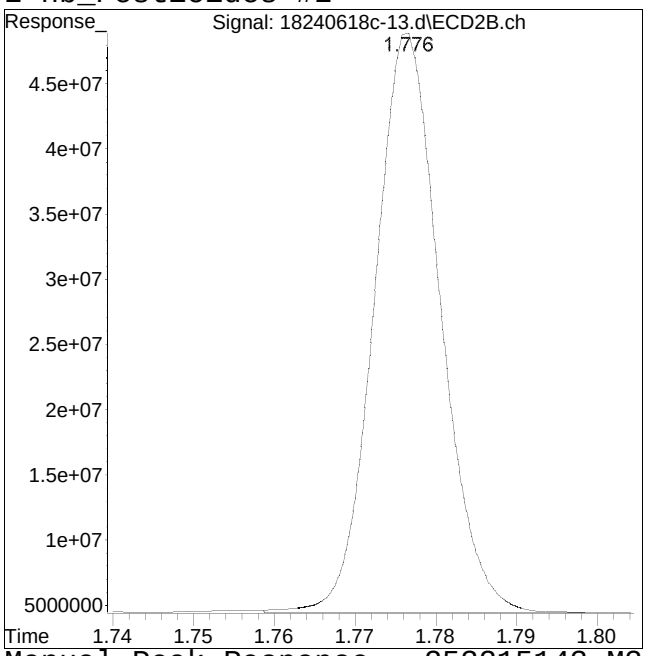
Original Peak Response = 516933019 Manual Peak Response = 487153203 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



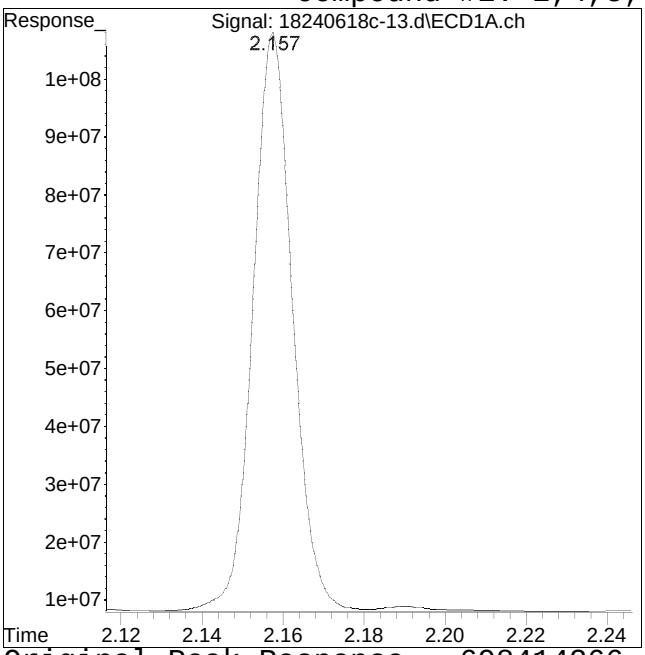


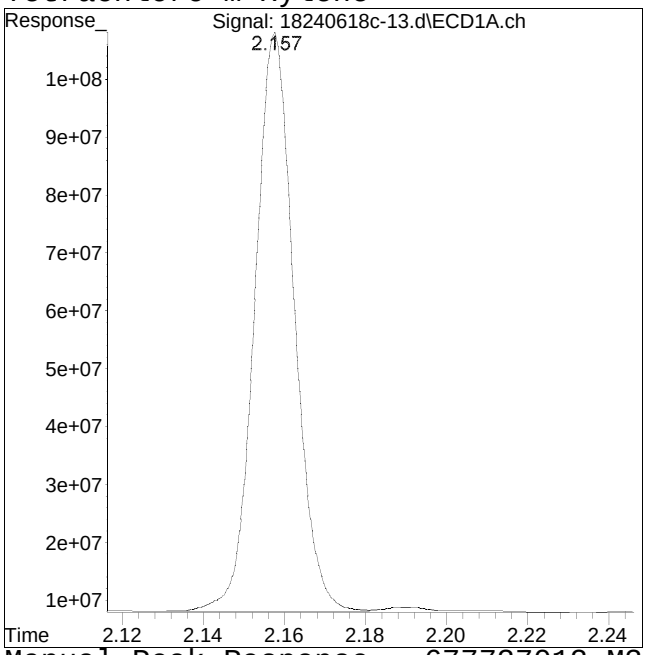
Original Peak Response = 264111214 Manual Peak Response = 253215143 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



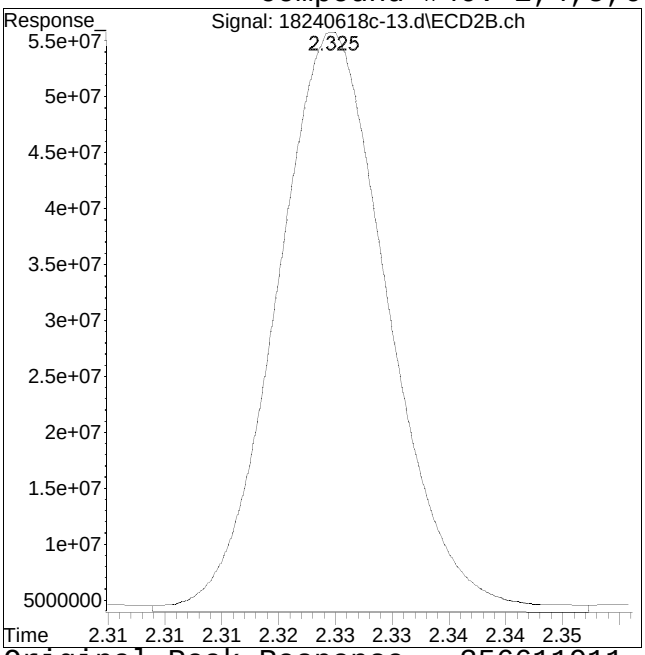


Original Peak Response = 698414266 Manual Peak Response = 677737012 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

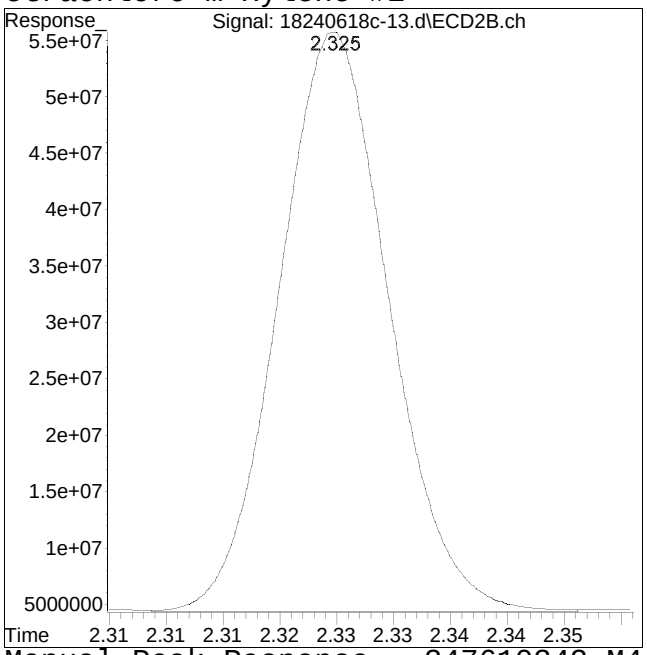
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 356611911



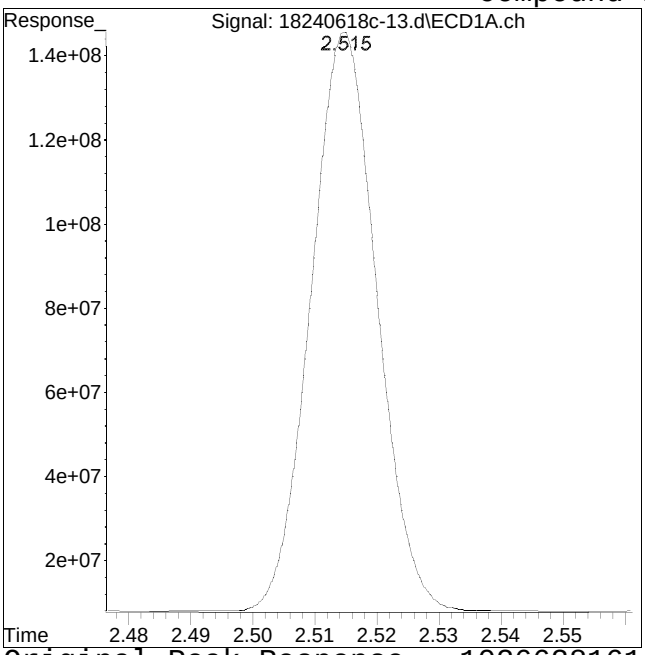
Manual Peak Response = 347610342 M4

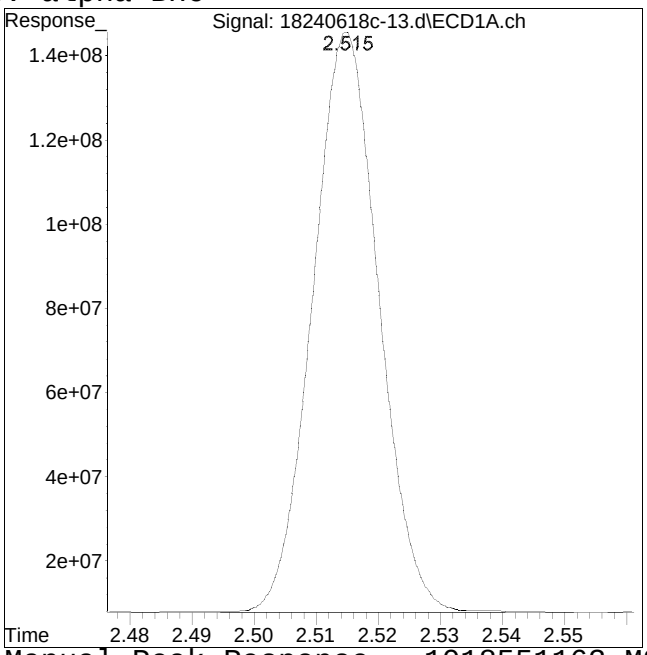
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #4: alpha-BHC



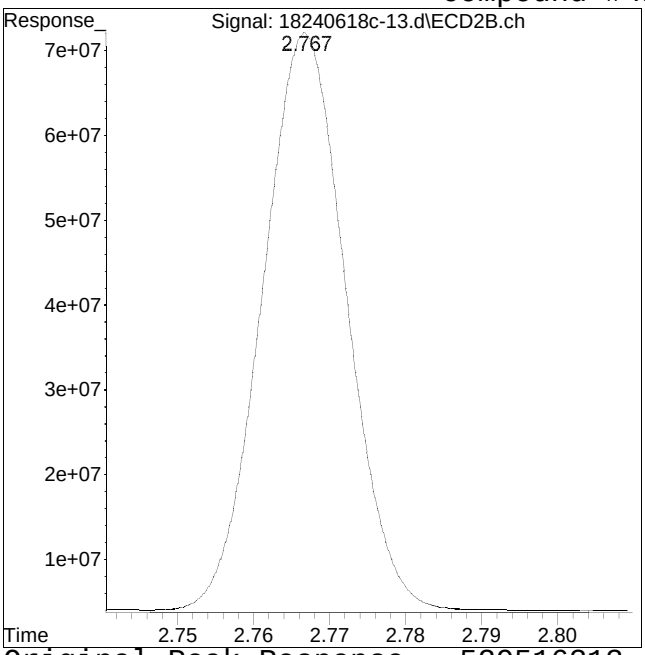


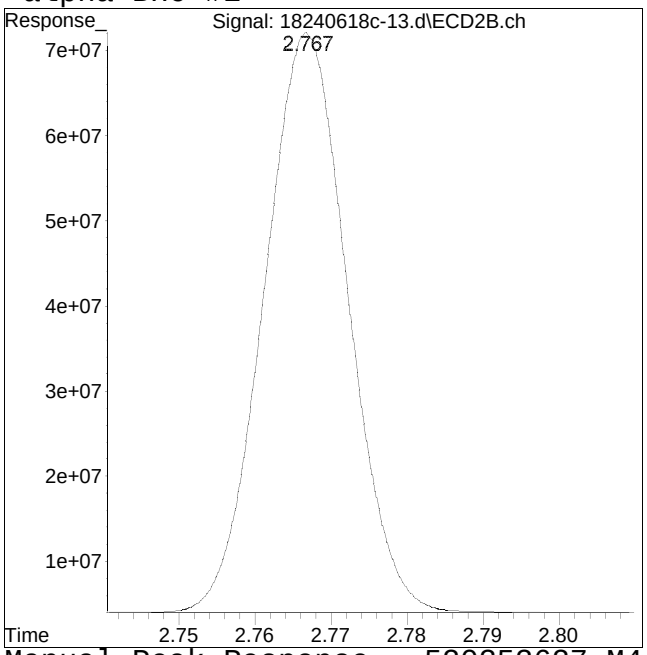
Original Peak Response = 1026628161 Manual Peak Response = 1018551163 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #42: alpha-BHC #2



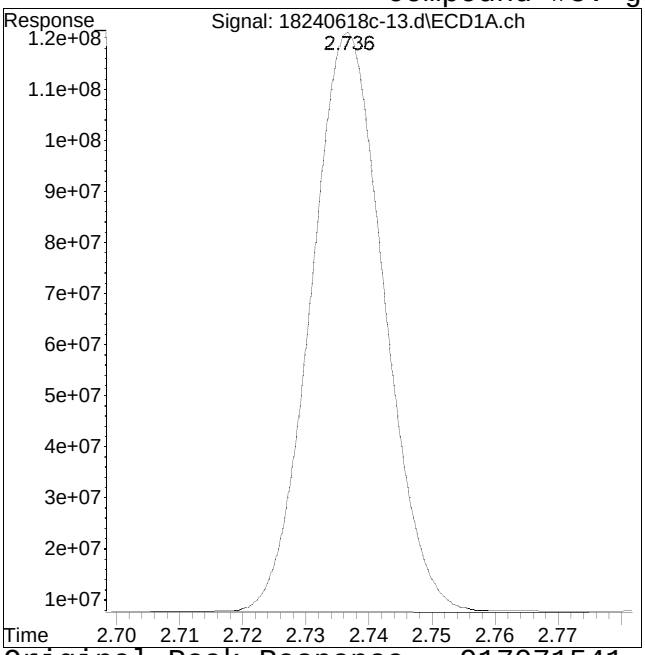


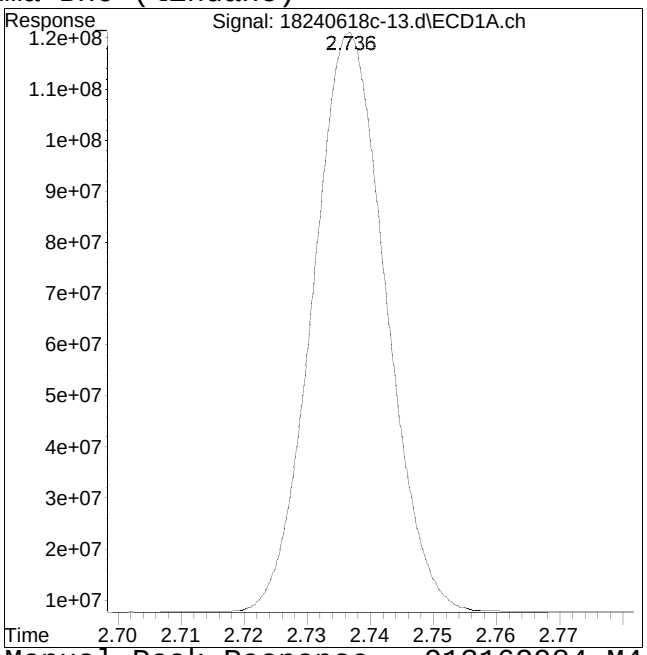
Original Peak Response = 529516313 Manual Peak Response = 520353627 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #5: gamma-BHC (lindane)



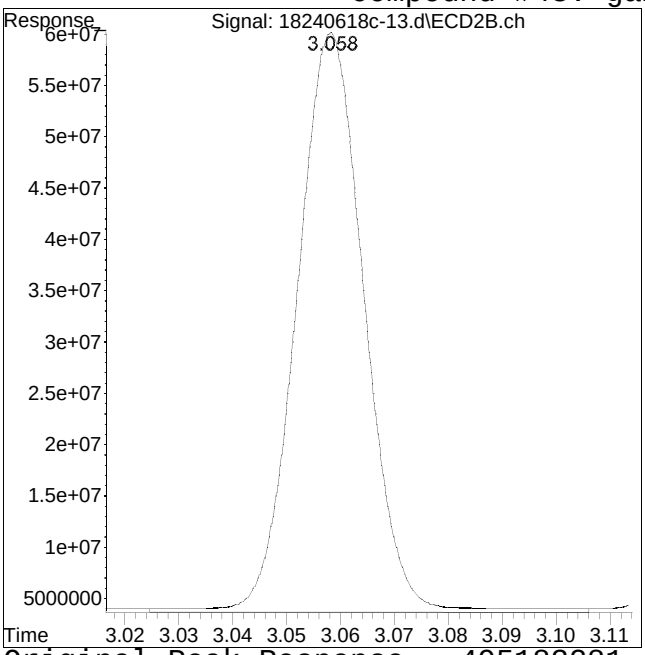


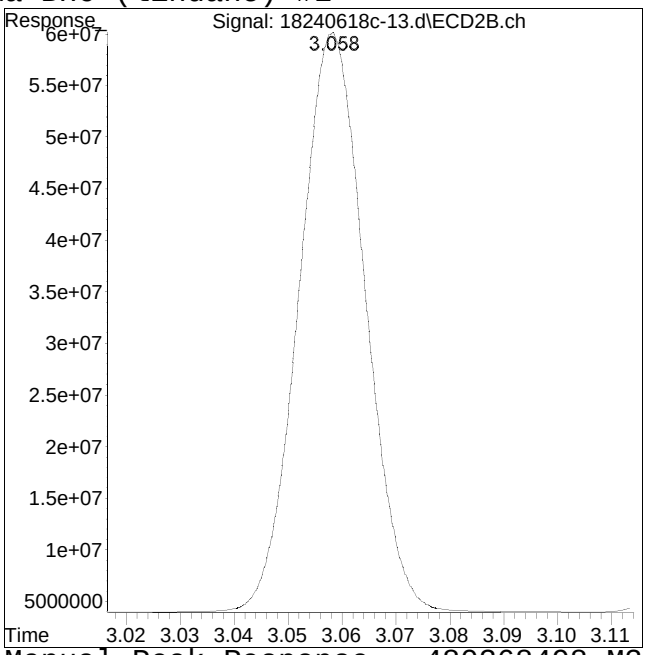
Original Peak Response = 917071541 Manual Peak Response = 913162984 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #43: gamma-BHC (lindane) #2



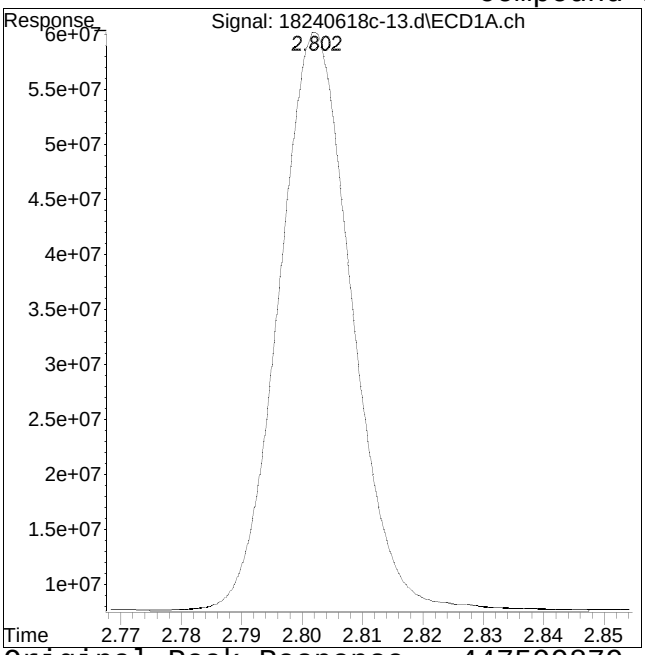


Original Peak Response = 495183281 Manual Peak Response = 480368498 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

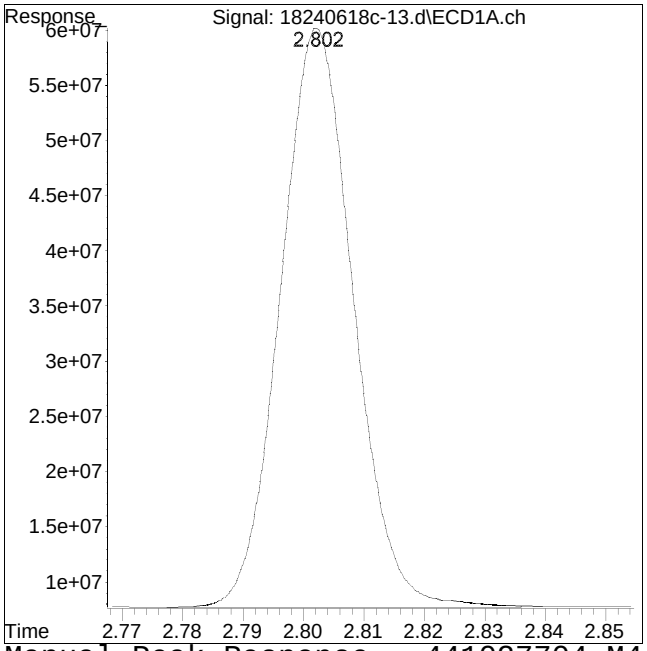
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #6: beta-BHC



Original Peak Response = 447599879



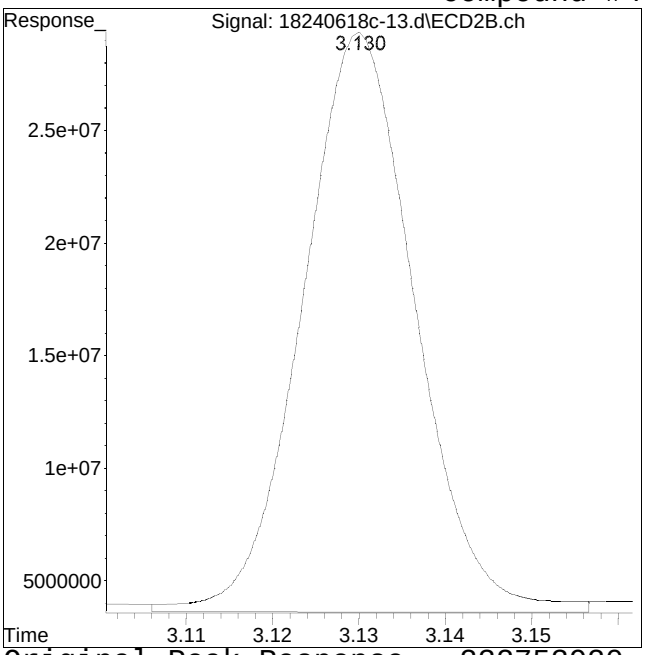
Manual Peak Response = 441027704 M4

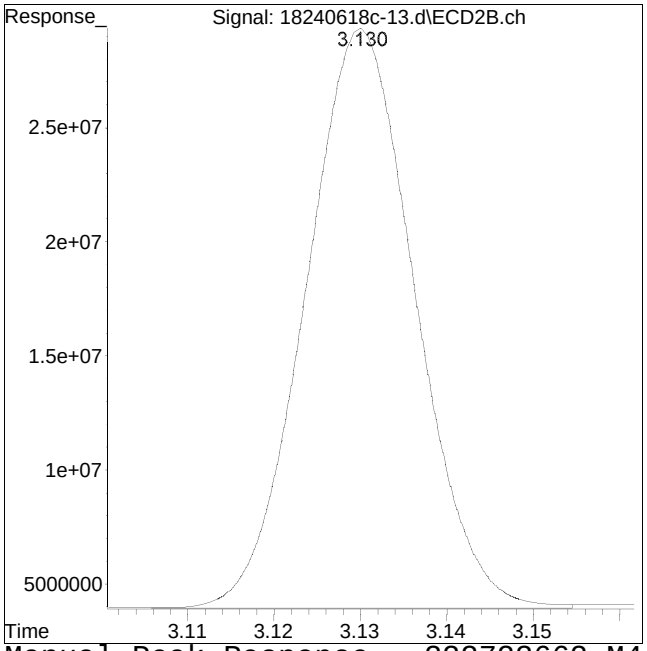
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #44: beta-BHC #2



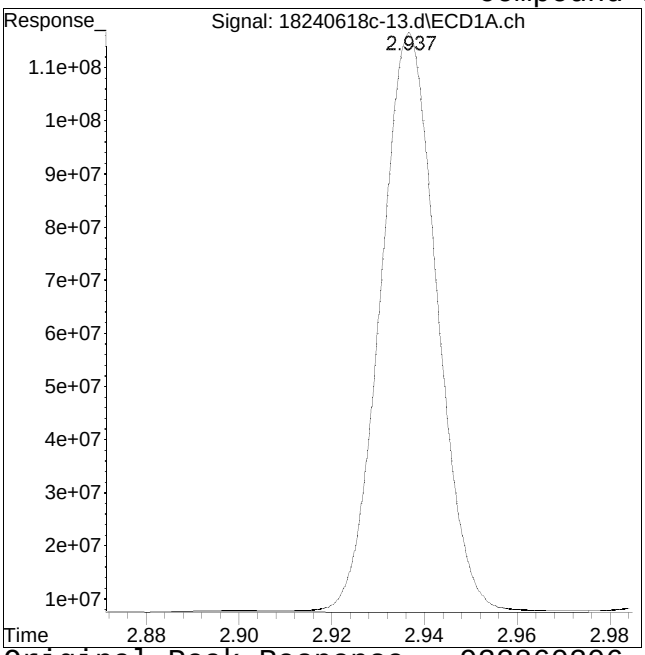


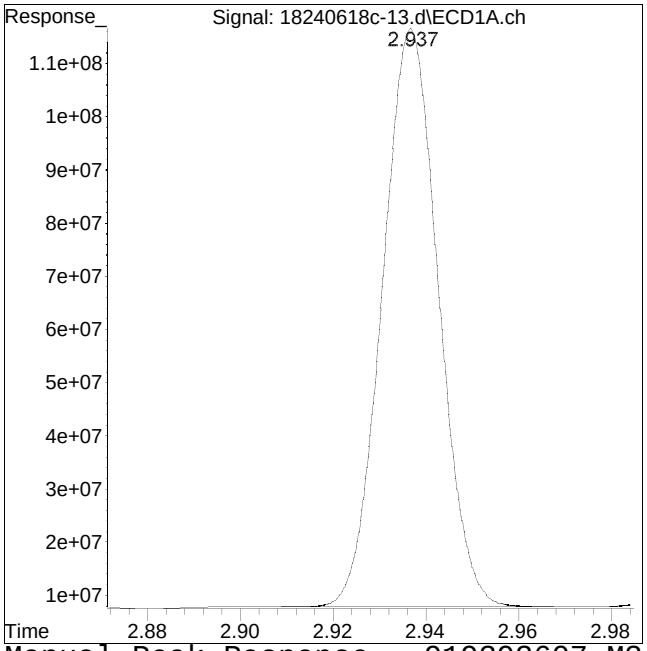
Original Peak Response = 232753920 Manual Peak Response = 222723662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #7: delta-BHC



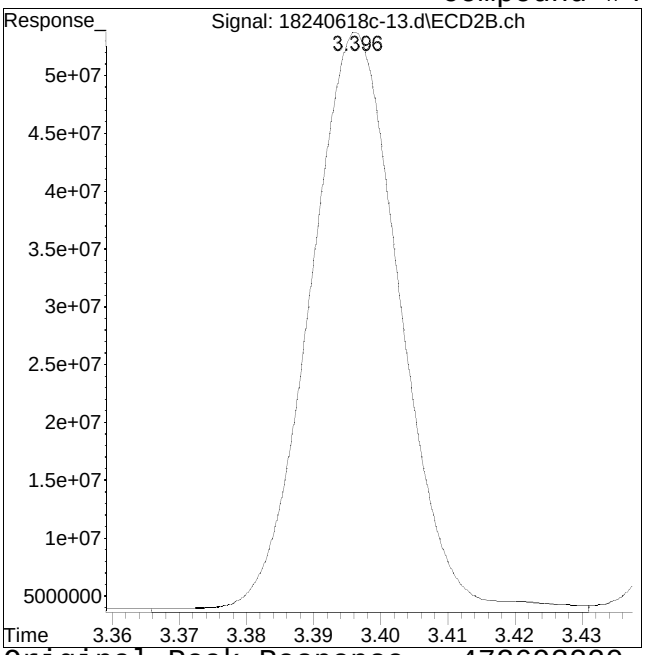


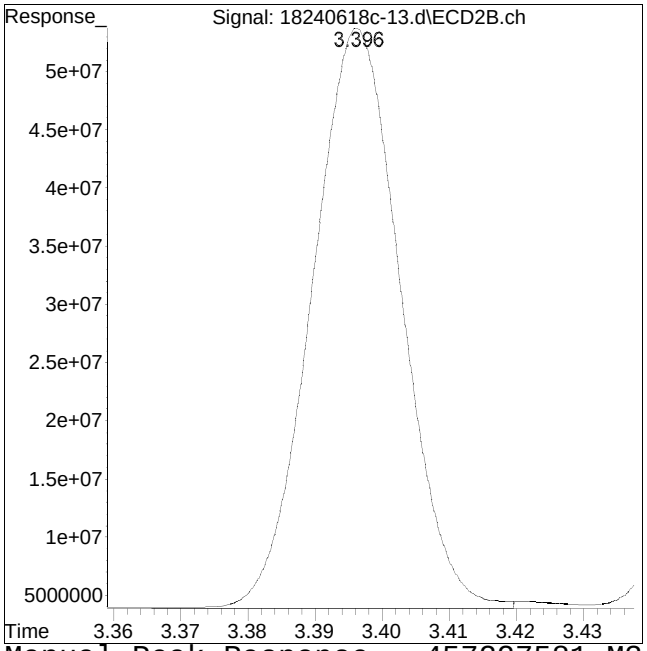
Original Peak Response = 933860306 Manual Peak Response = 919393607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #45: delta-BHC #2



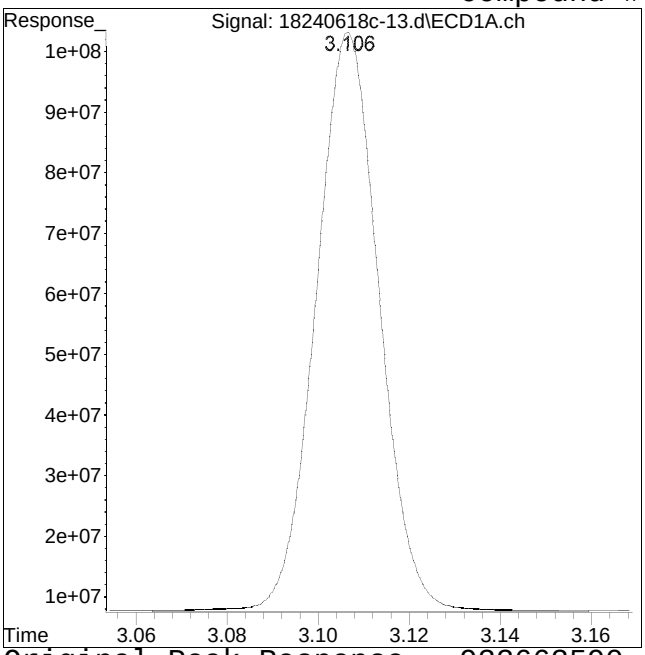


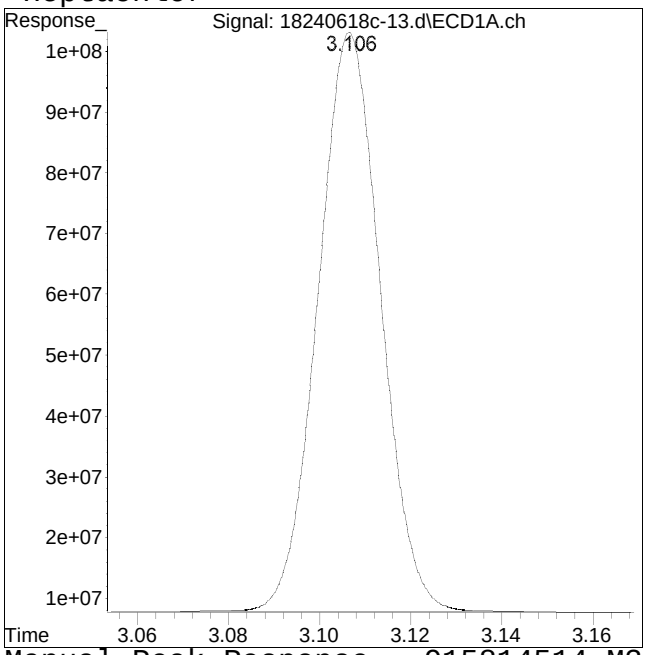
Original Peak Response = 472693220 Manual Peak Response = 457227581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #8: Heptachlor



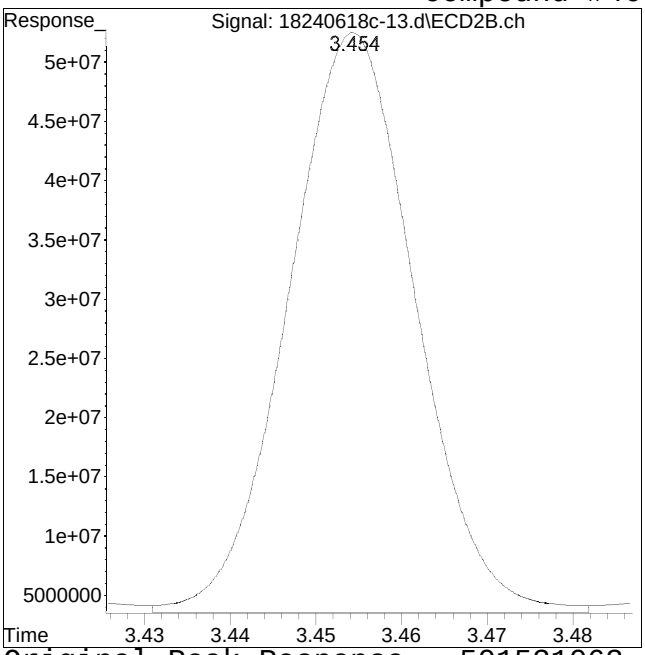


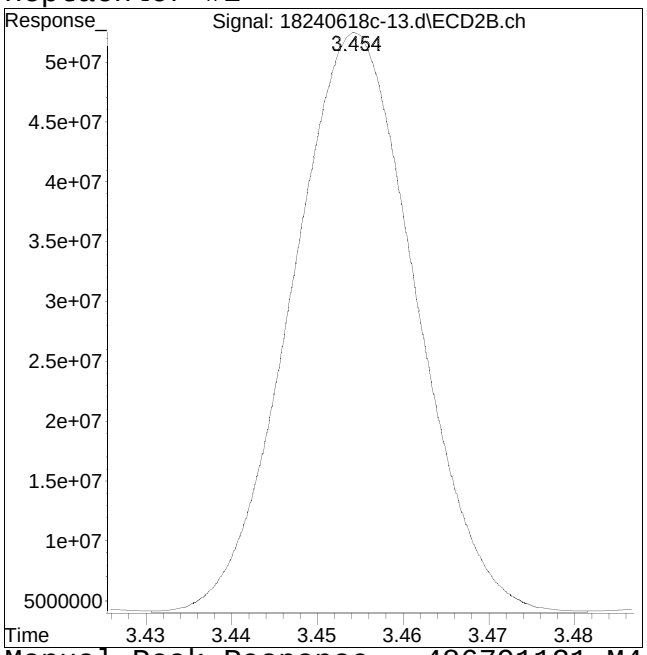
Original Peak Response = 933663590 Manual Peak Response = 915814514 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #46: Heptachlor #2



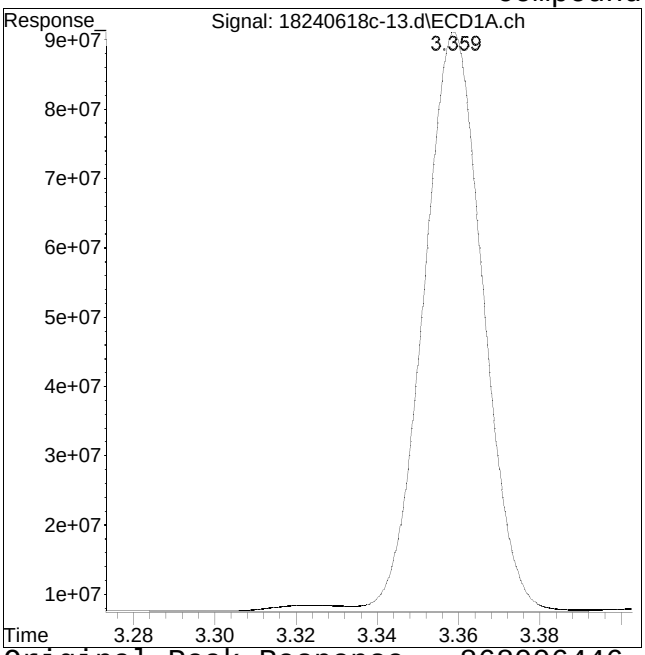


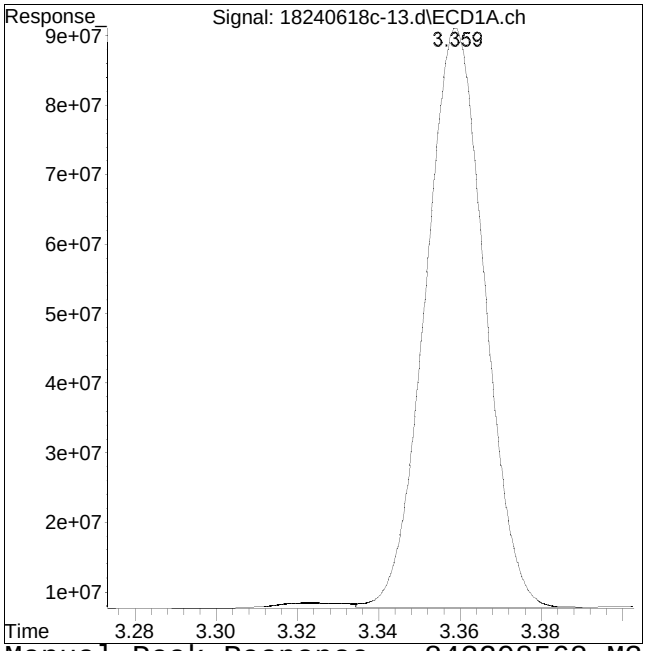
Original Peak Response = 501531063 Manual Peak Response = 486791121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #9: Aldrin



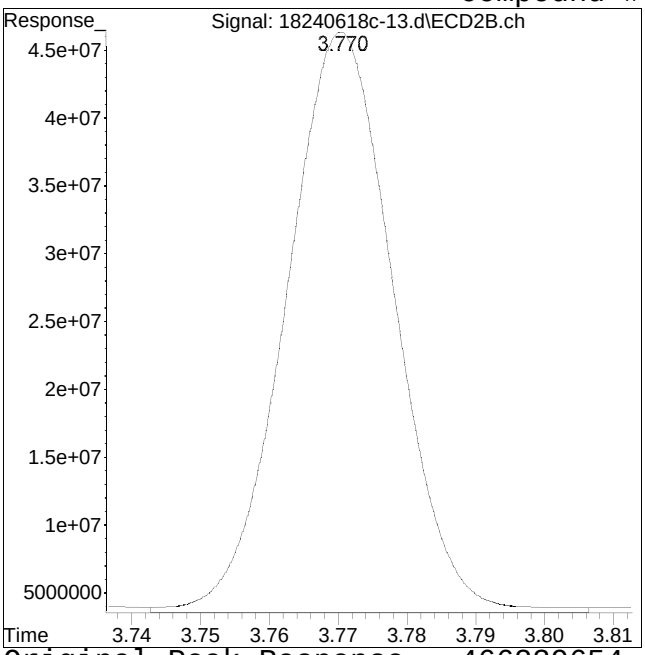


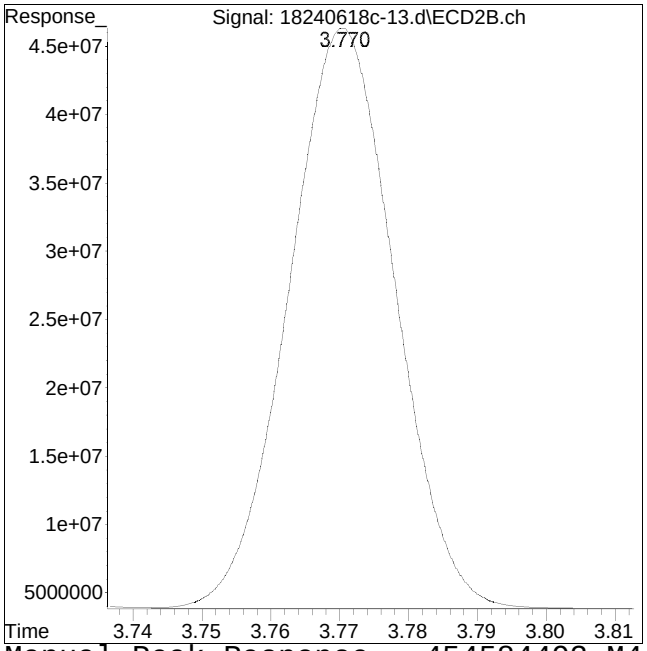
Original Peak Response = 868006446 Manual Peak Response = 842208568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #47: Aldrin #2



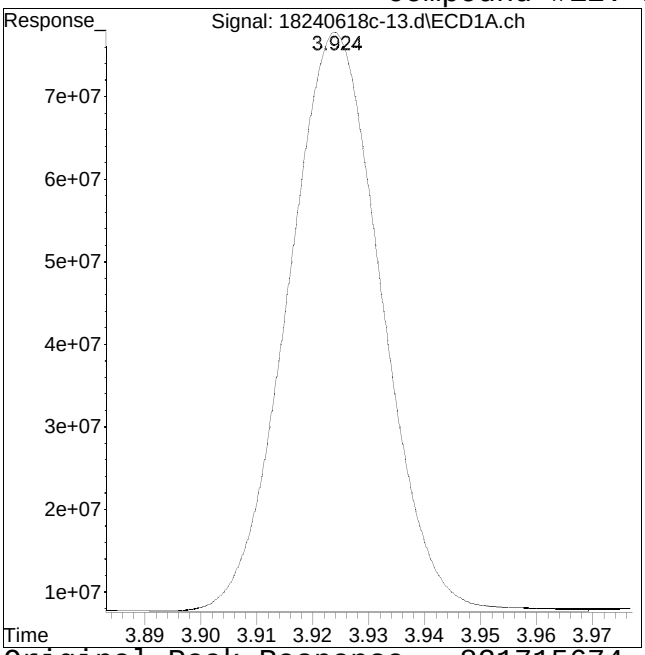


Original Peak Response = 466239654 Manual Peak Response = 454584493 M4
M4 = Poor automated baseline construction.

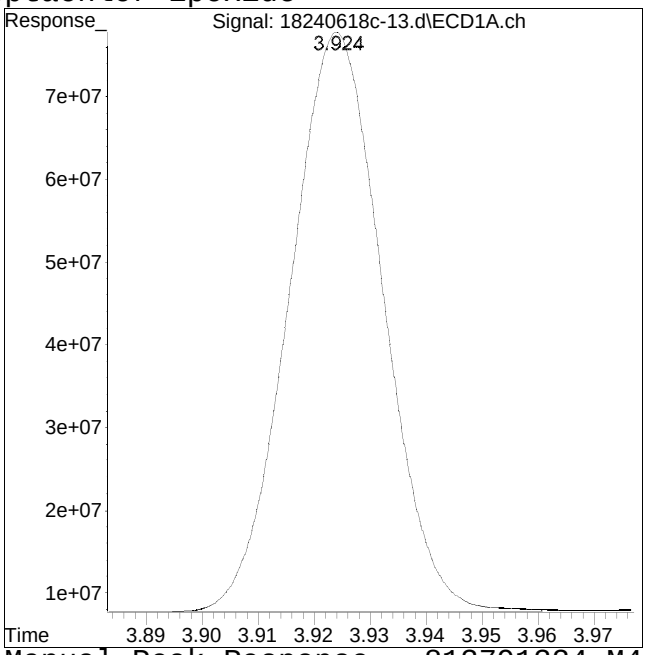
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 821715674



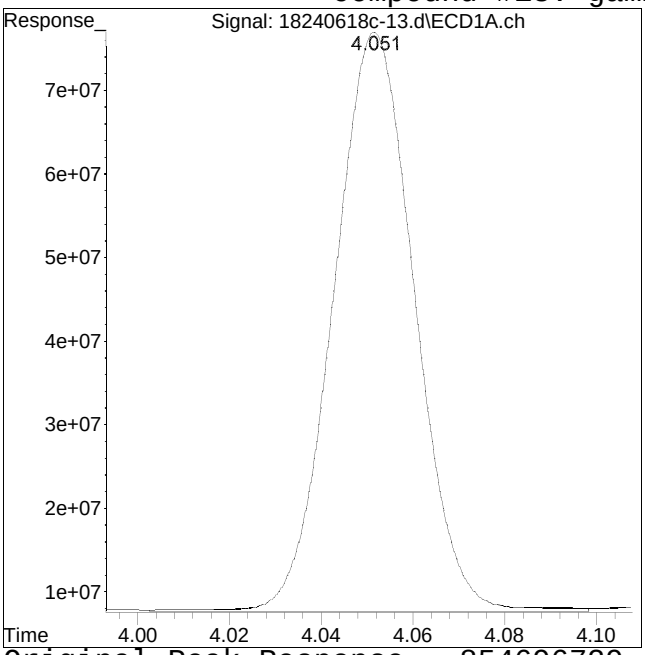
Manual Peak Response = 813791324 M4

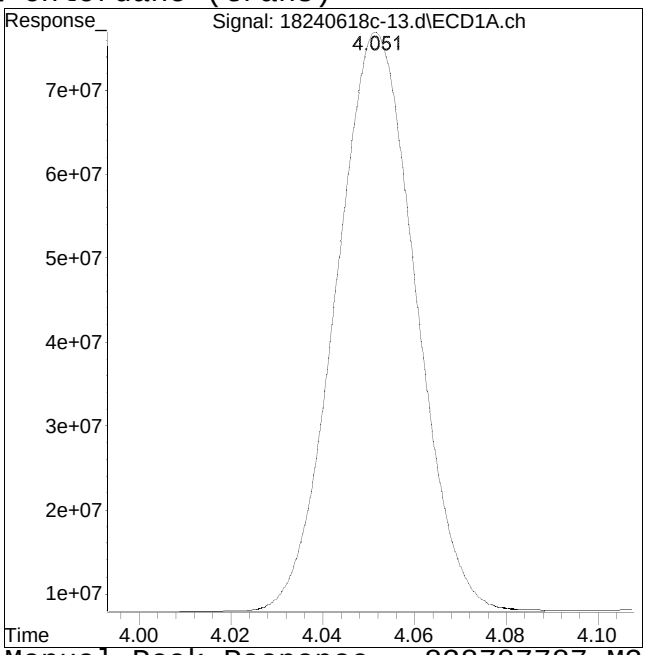
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #13: gamma-Chlordane (trans)



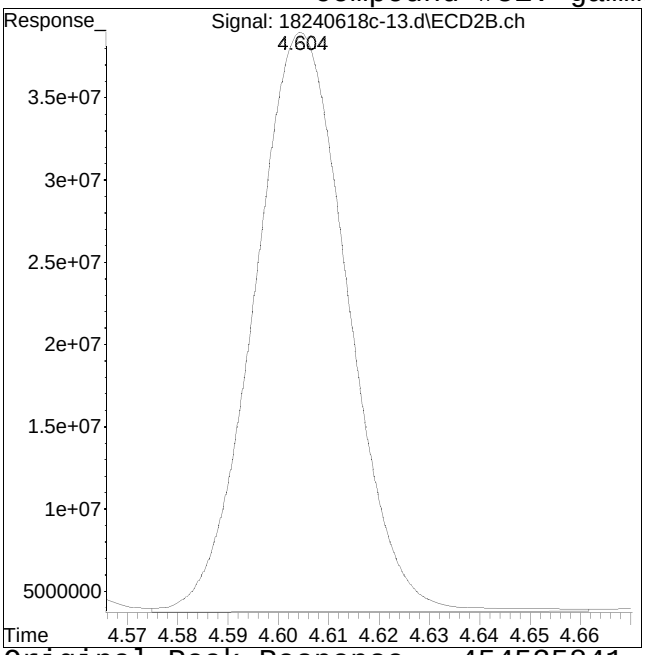


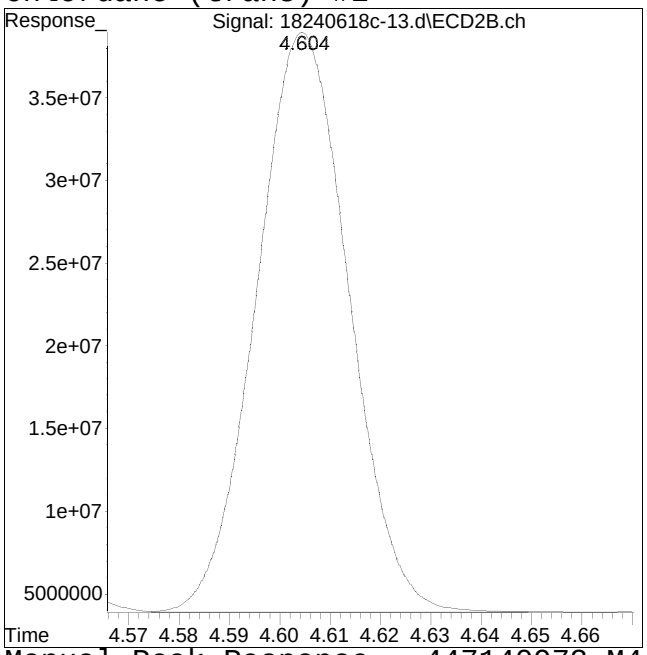
Original Peak Response = 854696729 Manual Peak Response = 838787787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #51: gamma-Chlordane (trans) #2



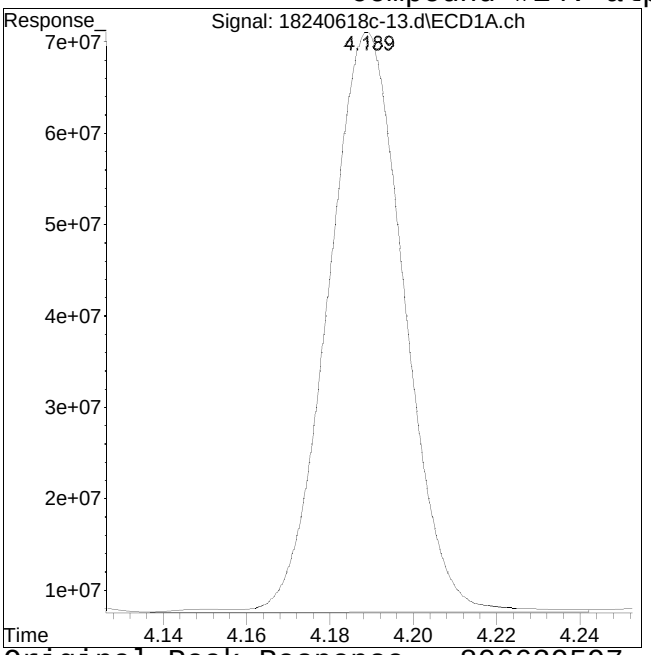


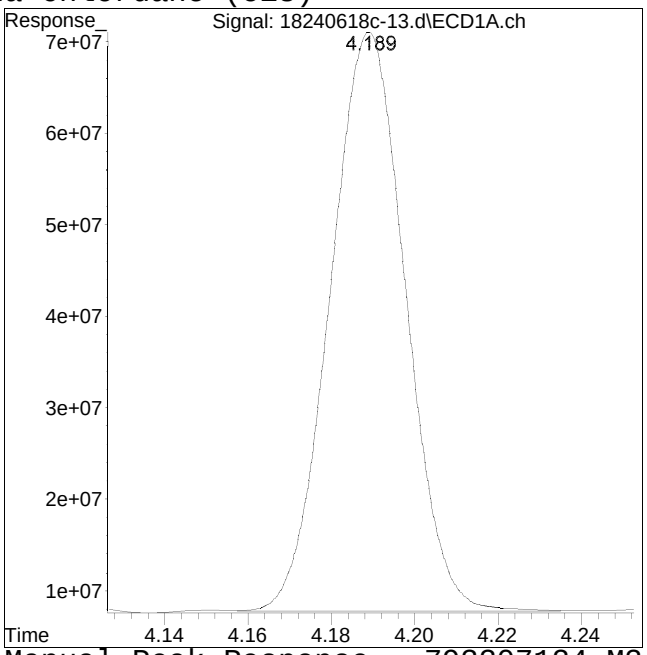
Original Peak Response = 454535841 Manual Peak Response = 447140973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #14: alpha-Chlordane (cis)



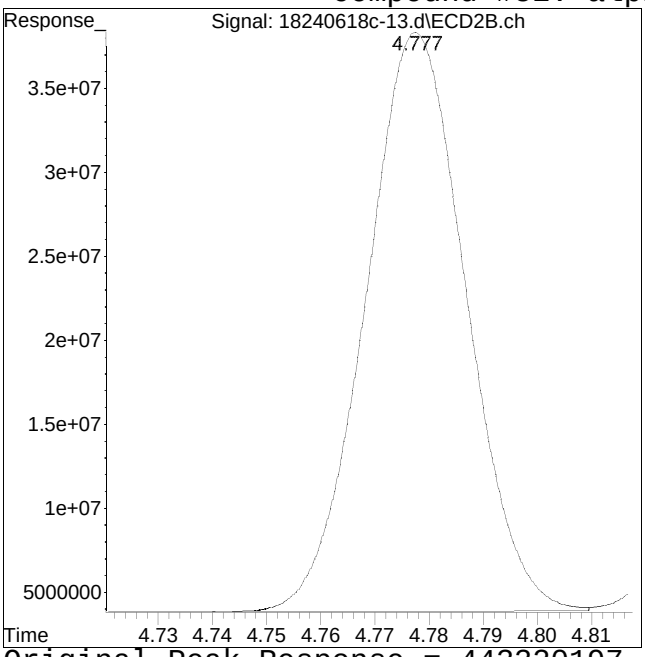


Original Peak Response = 806629597 Manual Peak Response = 793307124 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

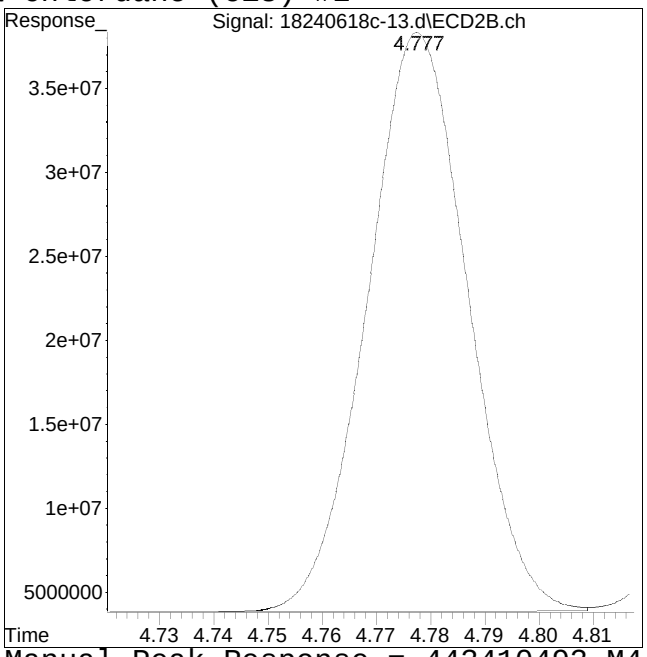
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 443320197

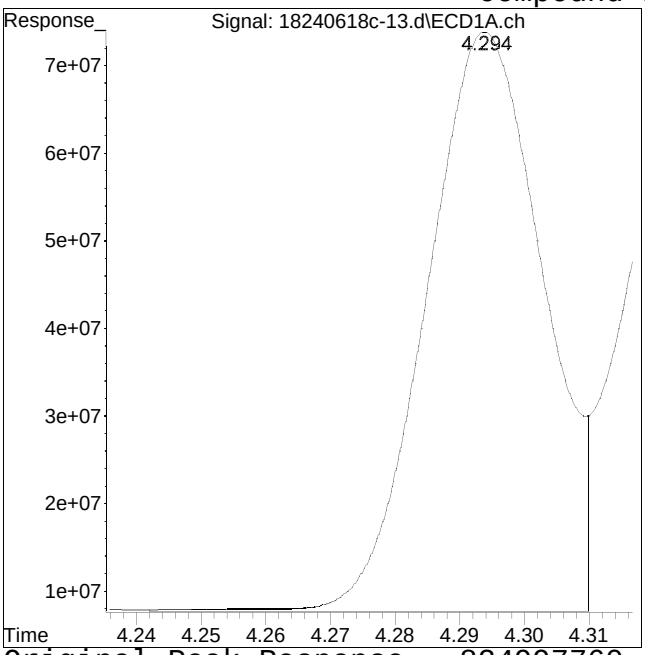


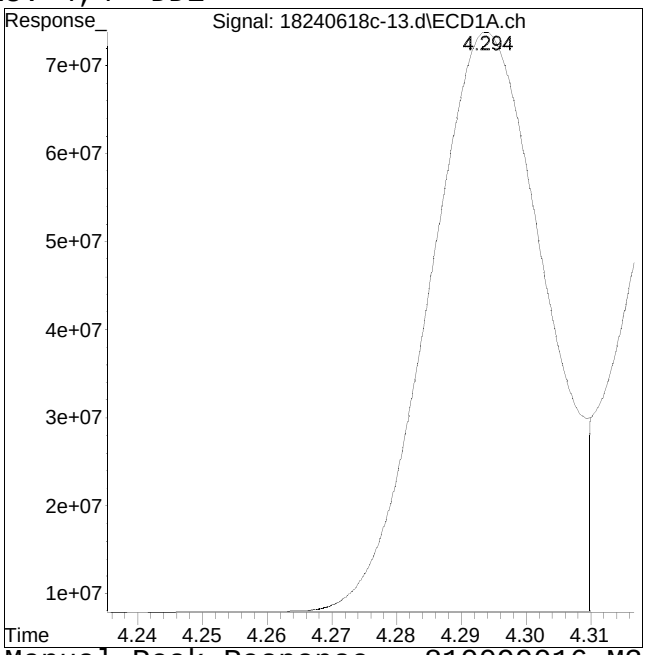
Manual Peak Response = 443410493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #15: 4,4'-DDE



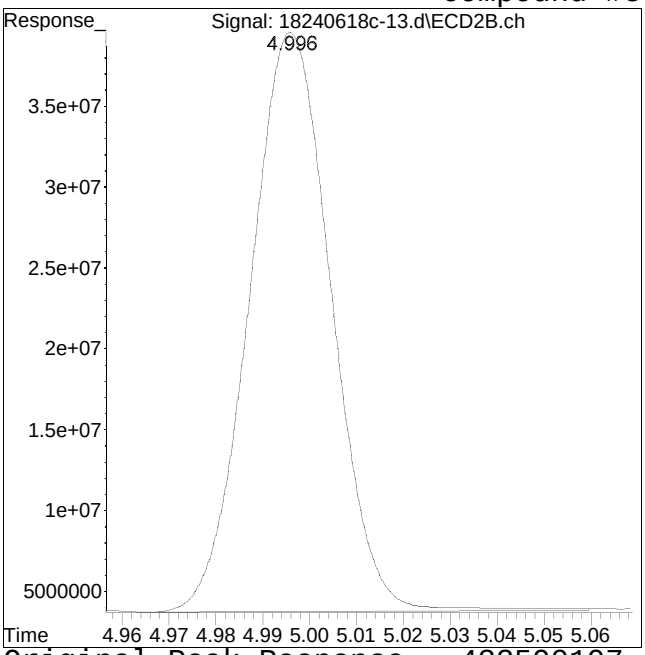


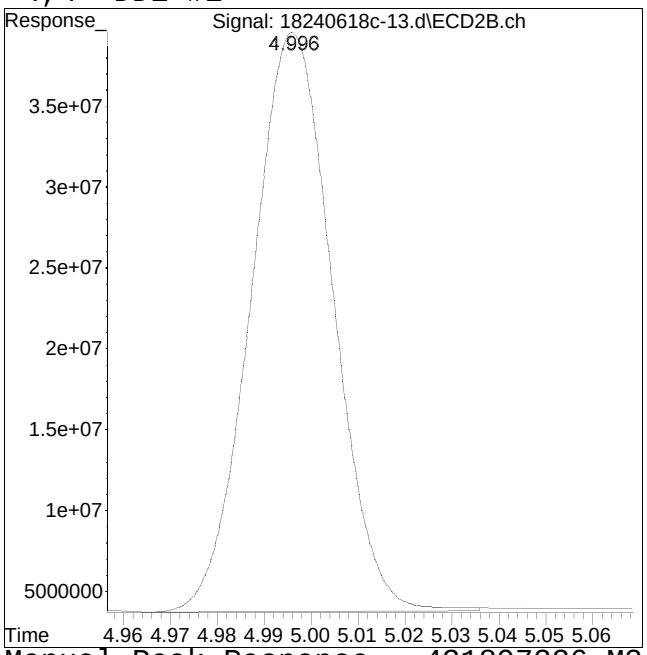
Original Peak Response = 824997760 Manual Peak Response = 810099016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #53: 4,4'-DDE #2



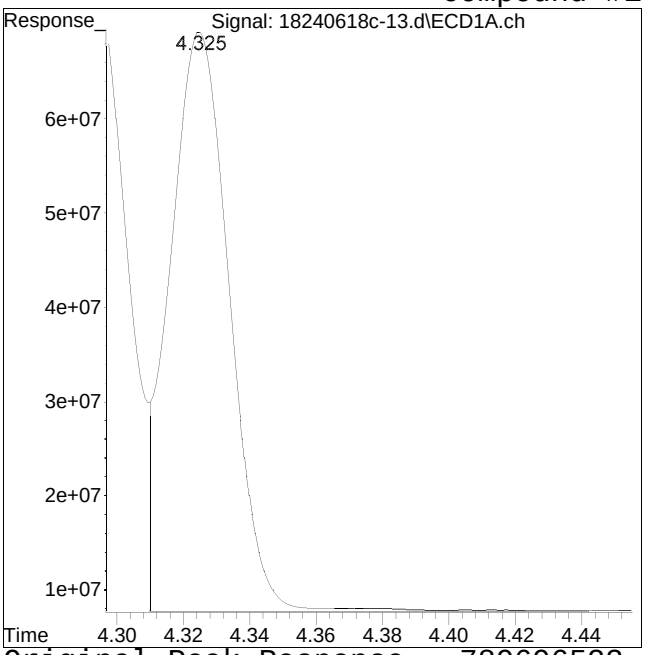


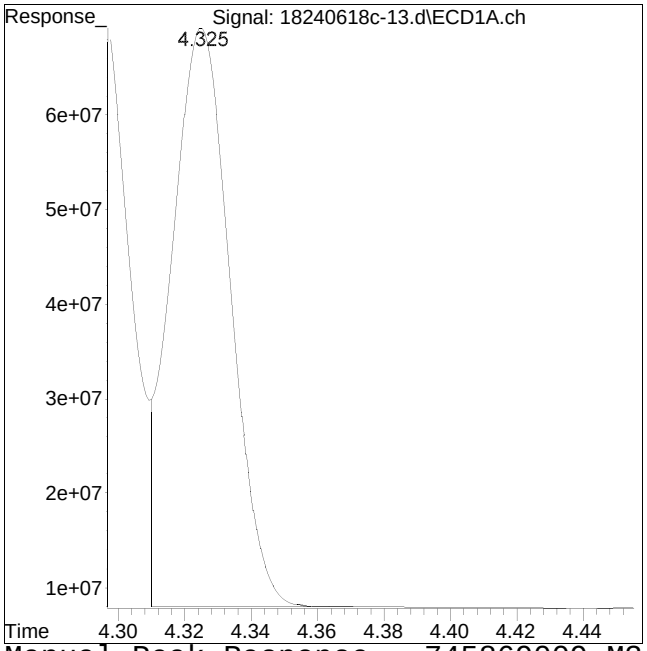
Original Peak Response = 433590197 Manual Peak Response = 431897326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #16: Endosulfan I



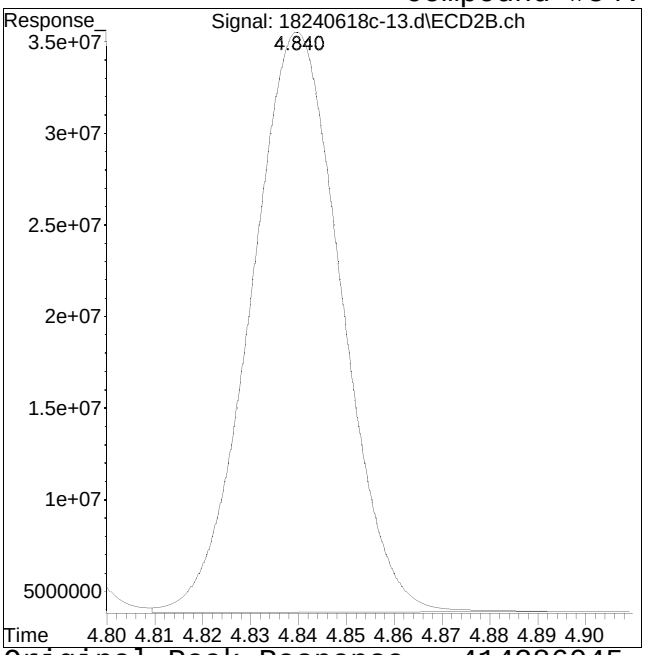


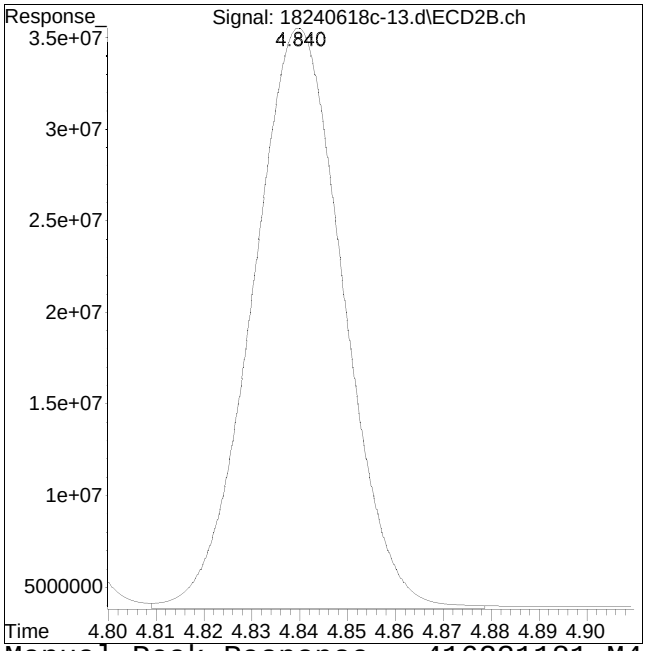
Original Peak Response = 789696523 Manual Peak Response = 745869009 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #54: Endosulfan I #2



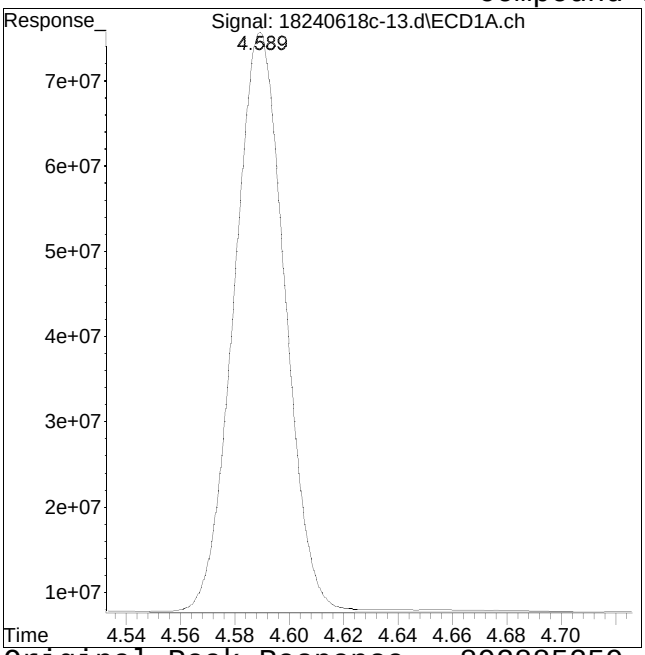


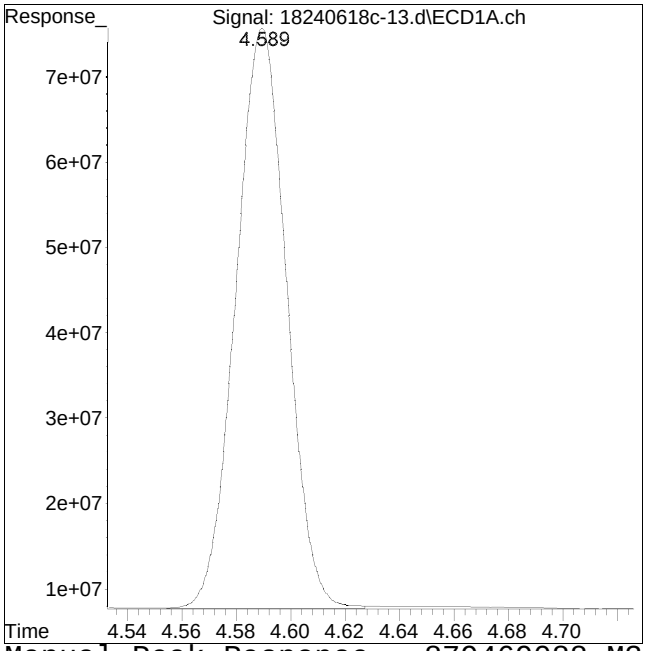
Original Peak Response = 414286045 Manual Peak Response = 416231181 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #17: Dieldrin



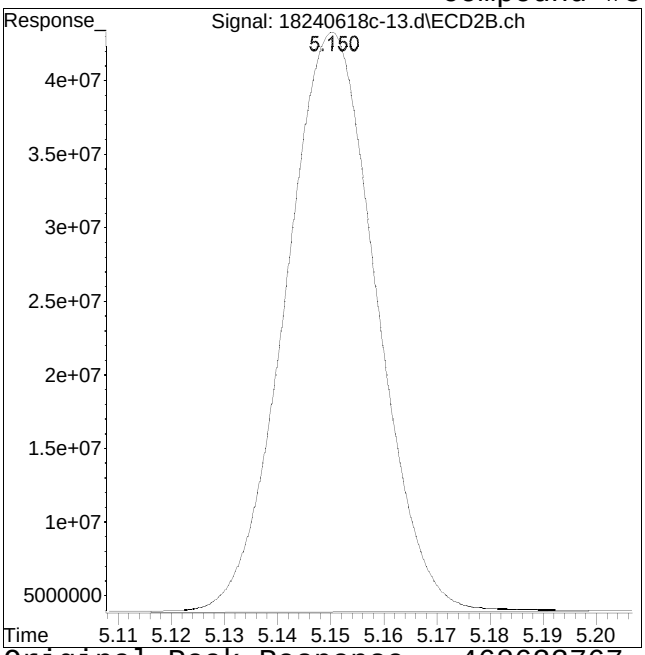


Original Peak Response = 892885259 Manual Peak Response = 879469088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

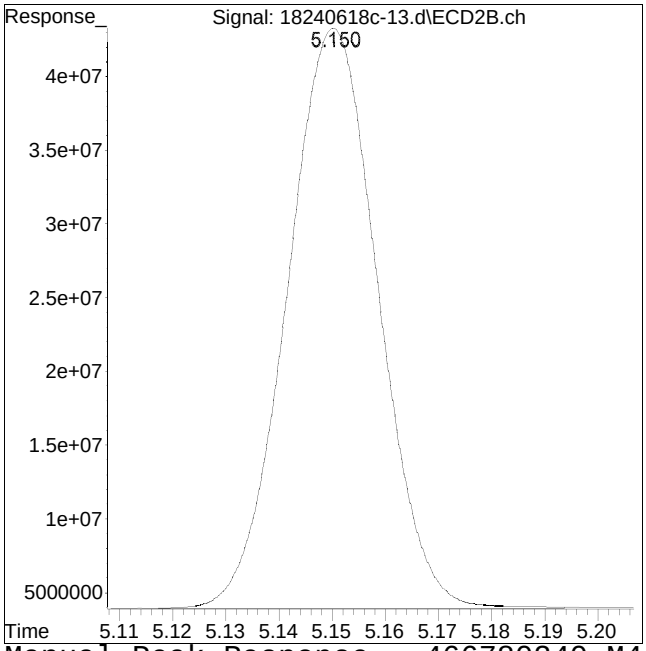
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #55: Dieldrin #2



Original Peak Response = 468633767



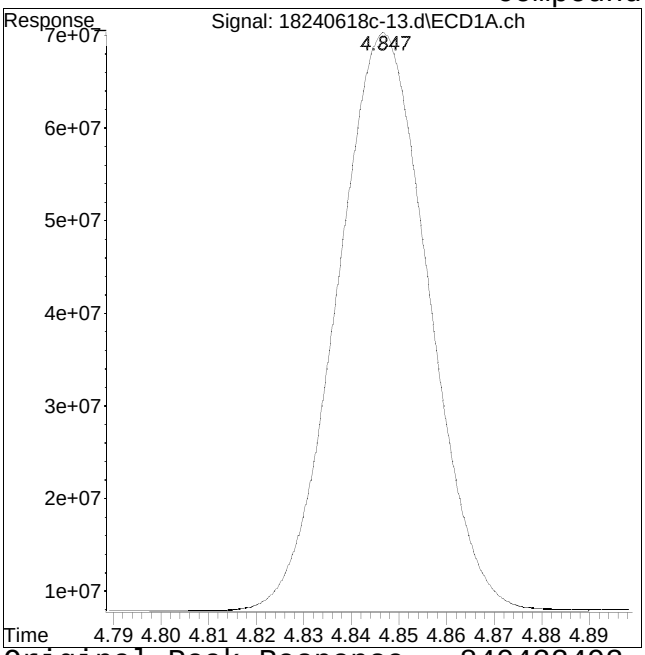
Manual Peak Response = 466780240 M4

M4 = Poor automated baseline construction.

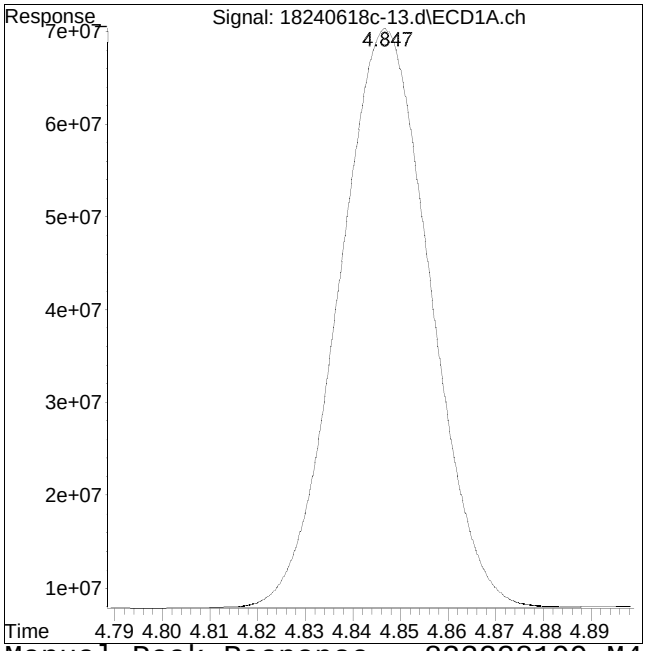
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #18: Endrin



Original Peak Response = 840422493



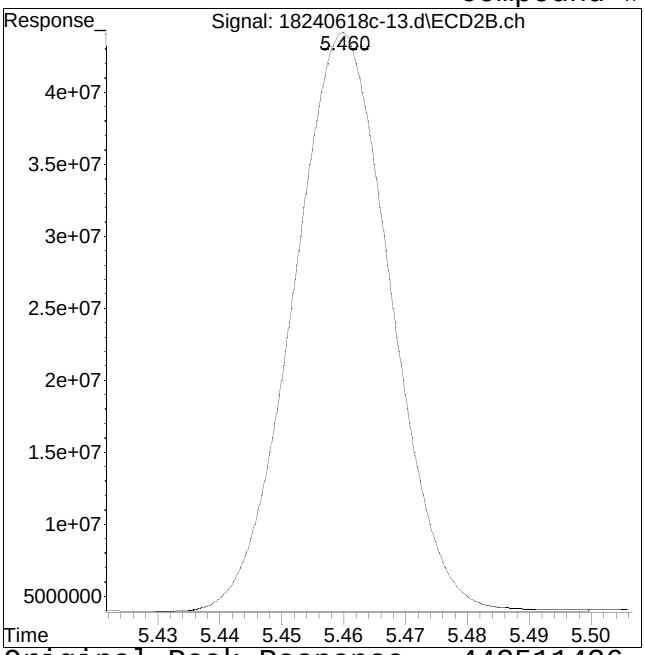
Manual Peak Response = 833238199 M4

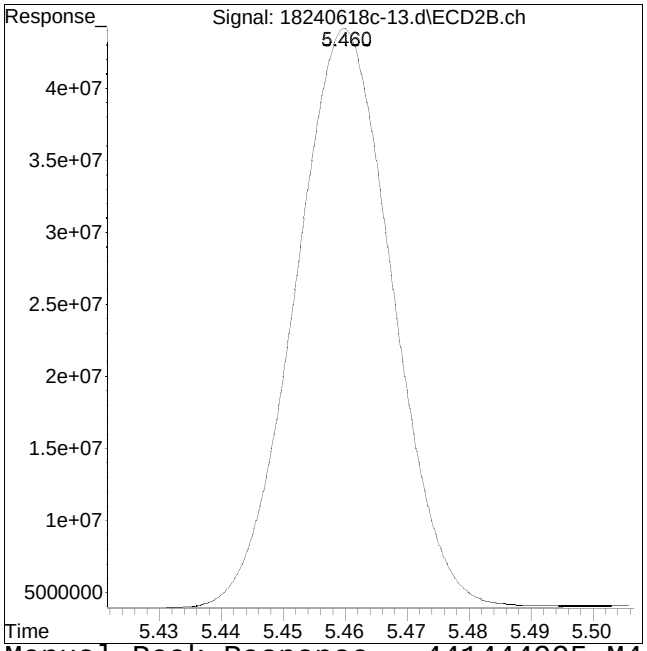
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #56: Endrin #2



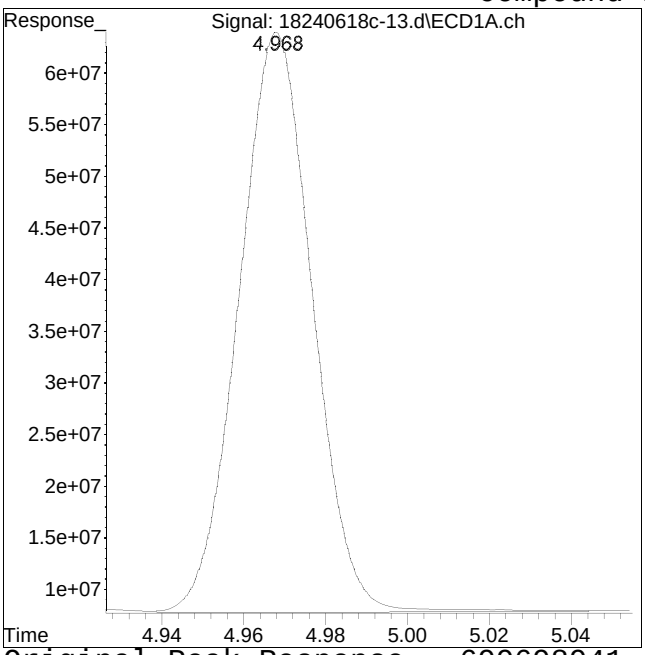


Original Peak Response = 442511436 Manual Peak Response = 441444995 M4
M4 = Poor automated baseline construction.

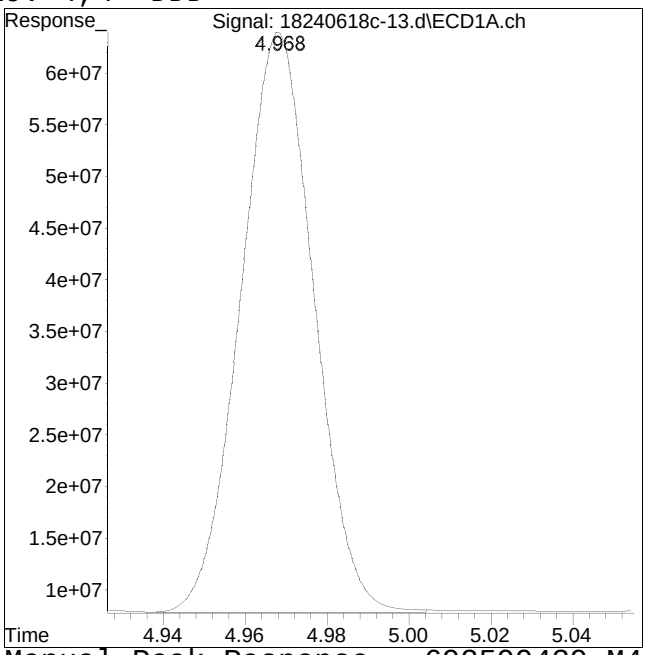
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #19: 4,4'-DDD



Original Peak Response = 699698941



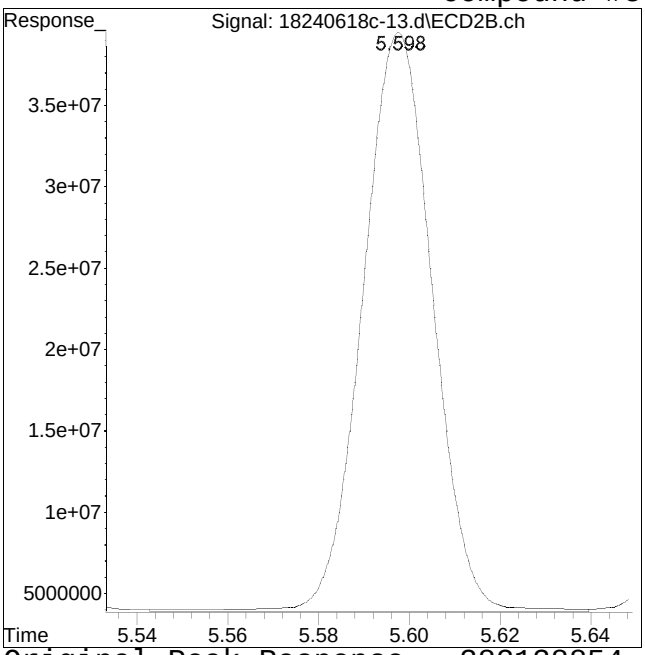
Manual Peak Response = 692599439 M4

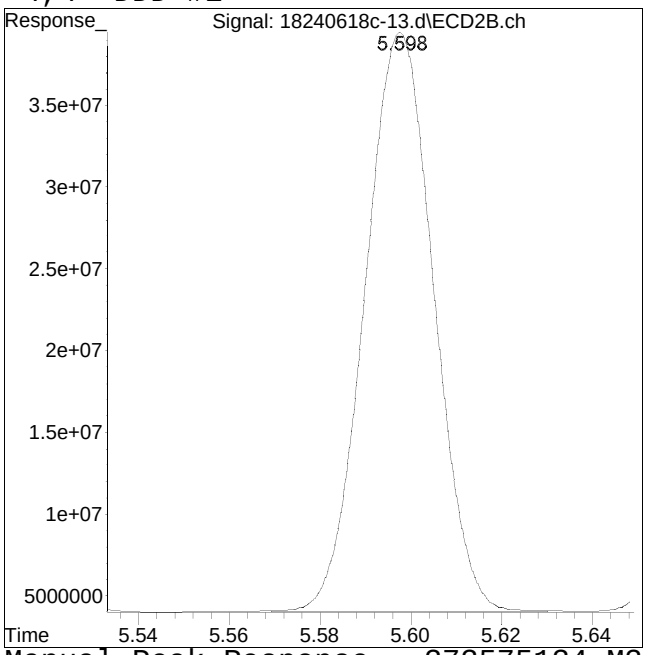
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #57: 4,4'-DDD #2



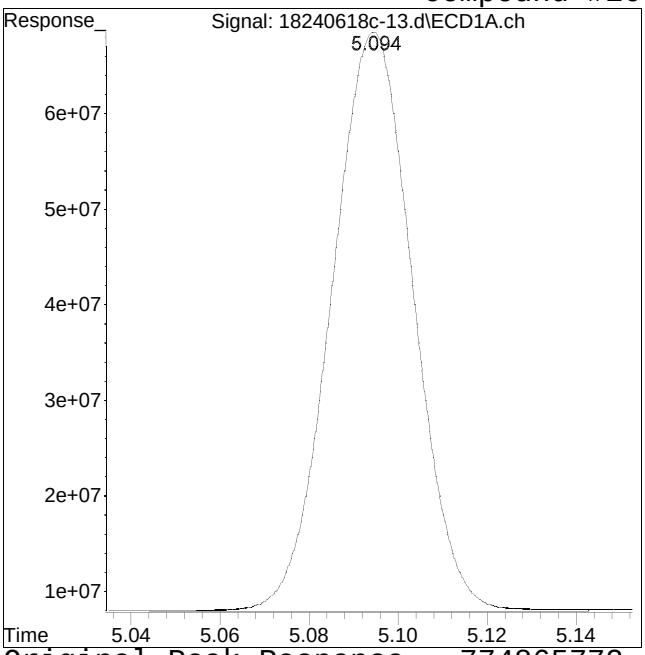


Original Peak Response = 382138854 Manual Peak Response = 373575134 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

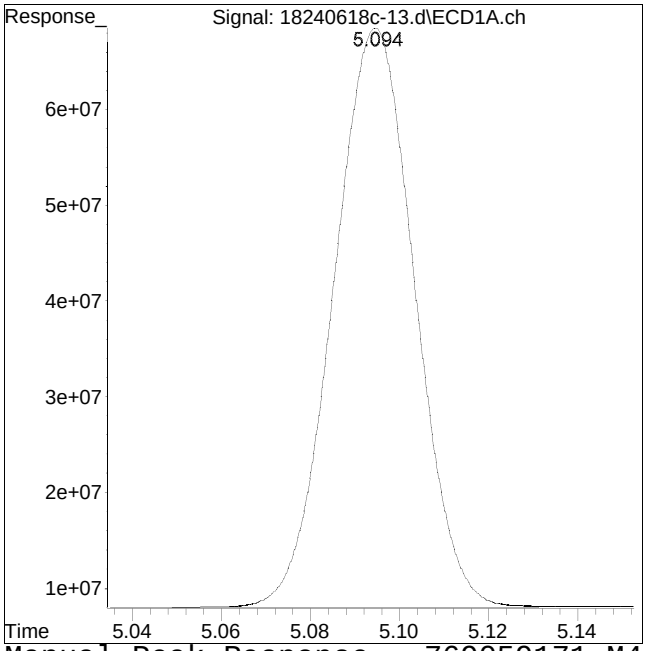
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #20: Endosulfan II



Original Peak Response = 774865772



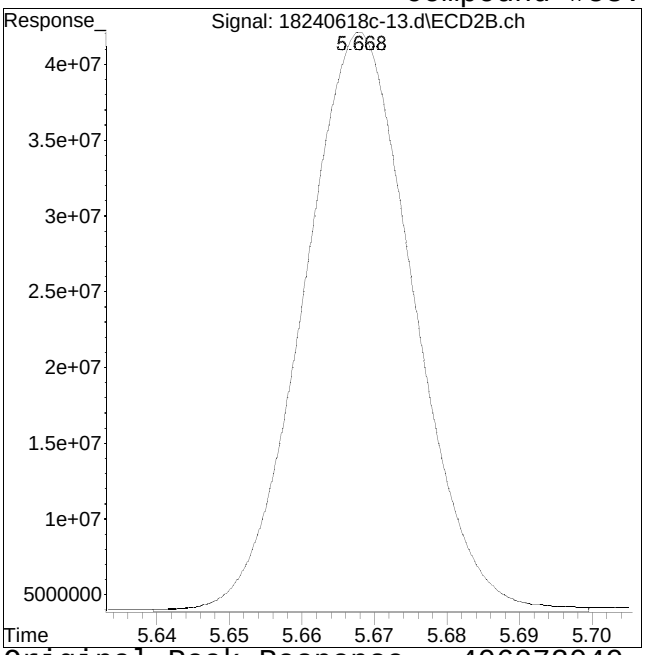
Manual Peak Response = 769059171 M4

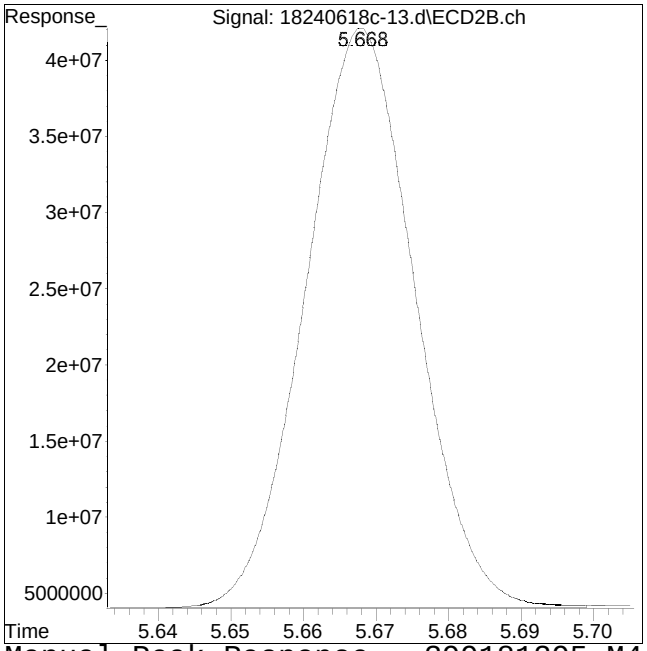
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #58: Endosulfan II #2



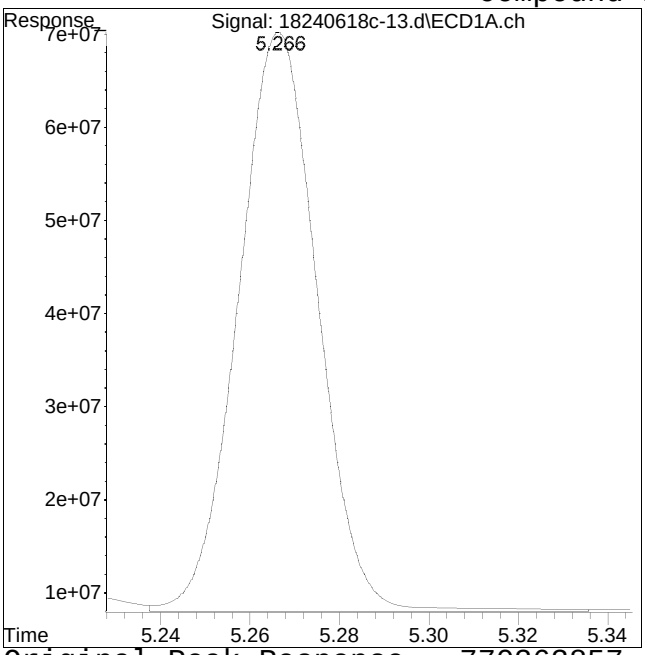


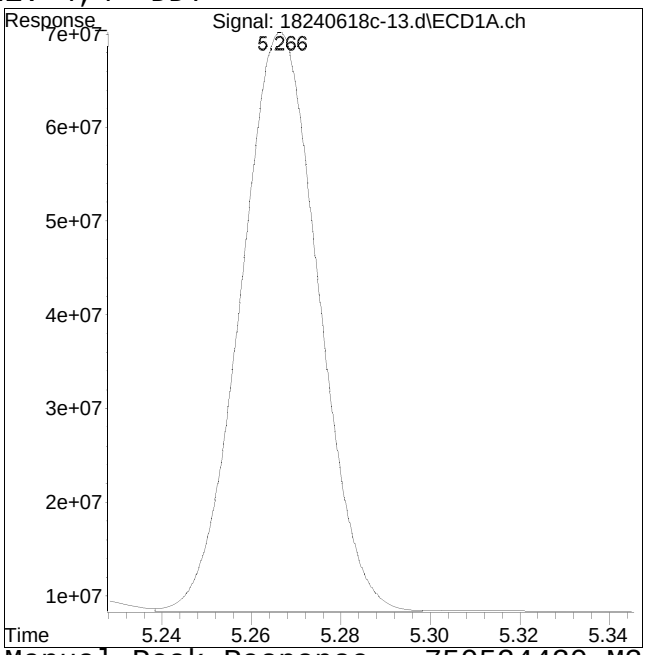
Original Peak Response = 406072040 Manual Peak Response = 399181295 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #21: 4,4'-DDT



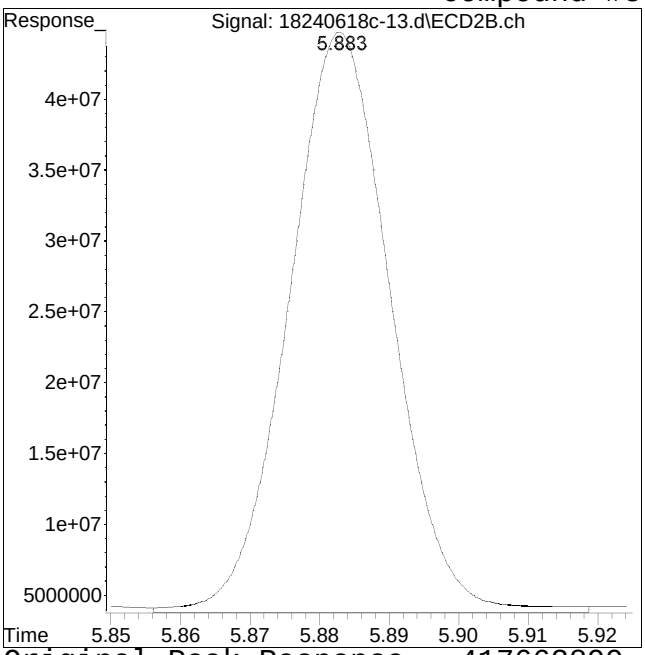


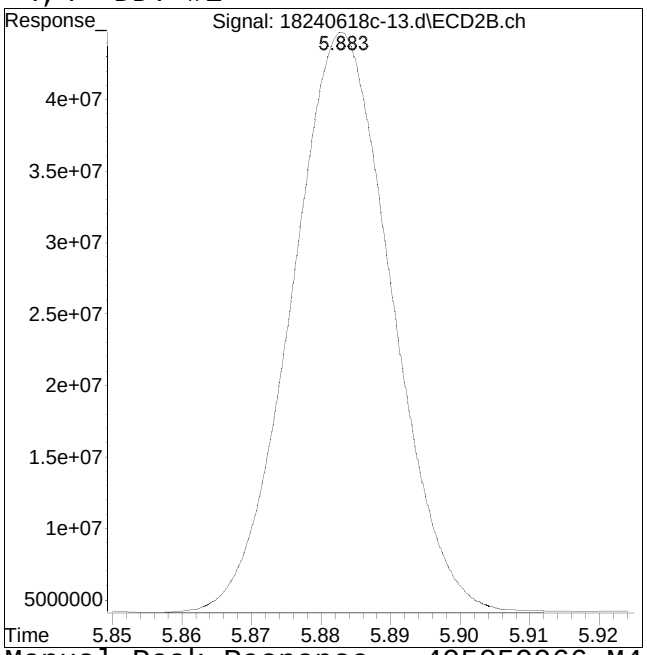
Original Peak Response = 770363857 Manual Peak Response = 750524430 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #59: 4,4'-DDT #2



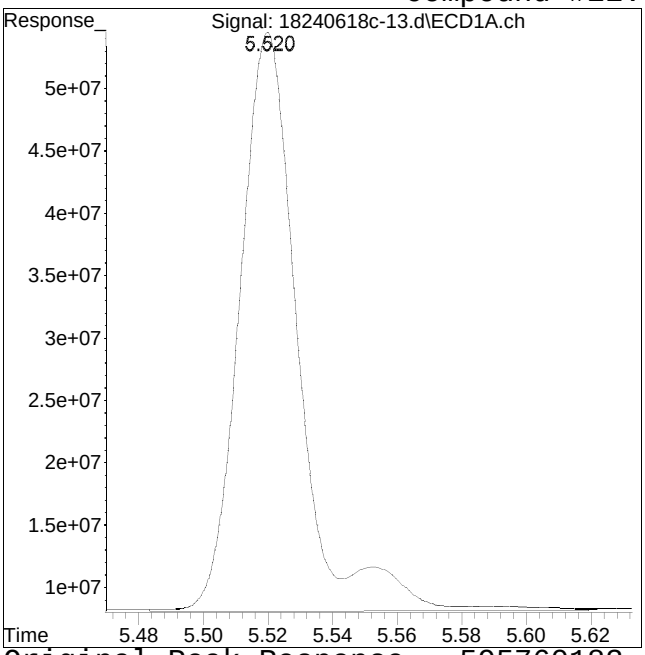


Original Peak Response = 417662899 Manual Peak Response = 405059966 M4
M4 = Poor automated baseline construction.

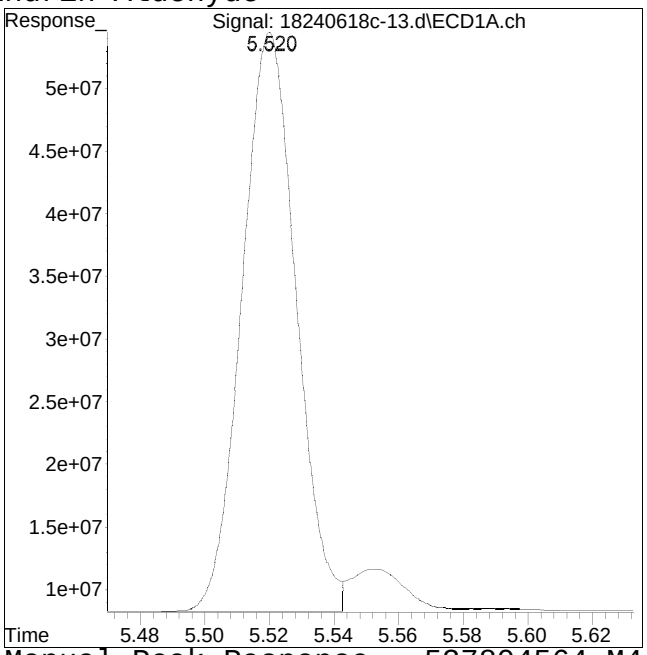
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 595760183



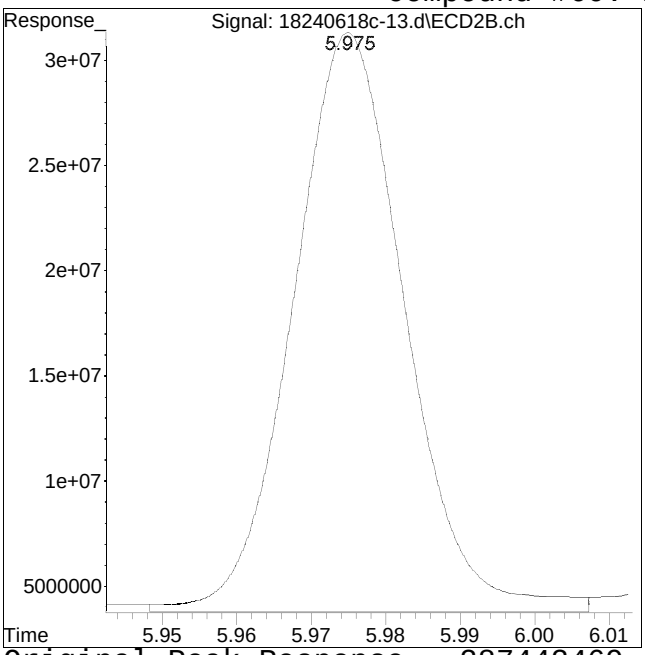
Manual Peak Response = 537804564 M4

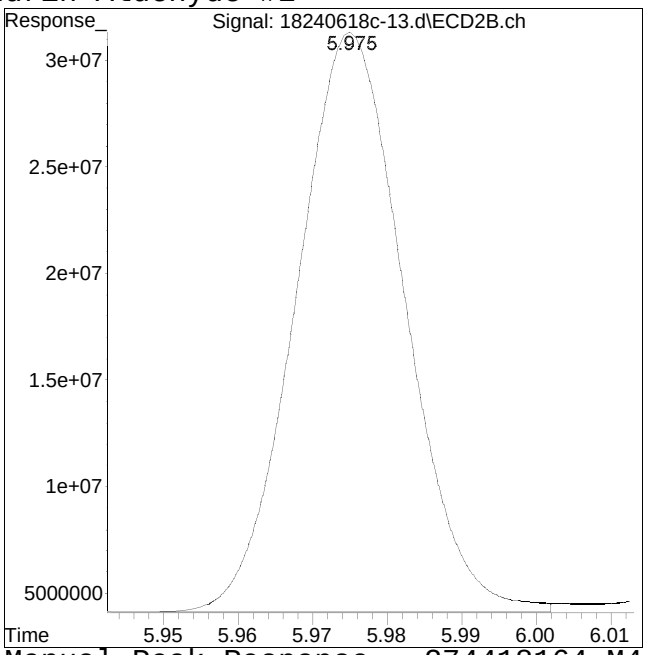
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #60: Endrin Aldehyde #2



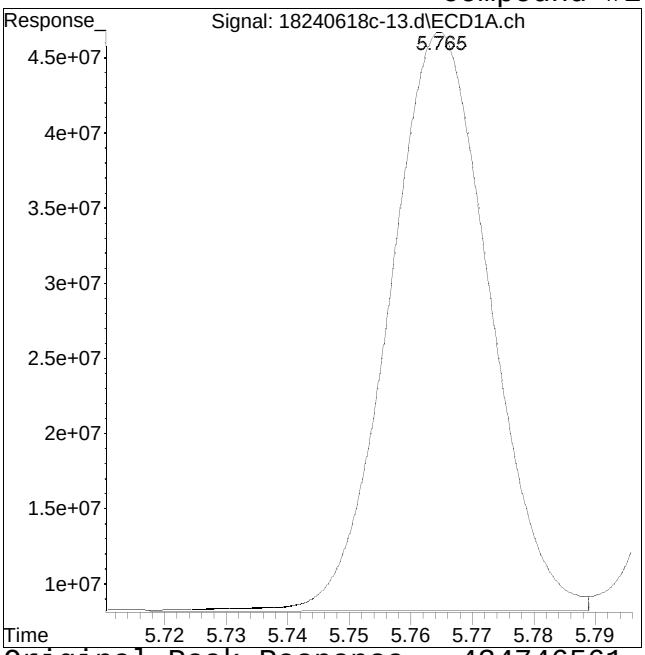


Original Peak Response = 287442469 Manual Peak Response = 274418164 M4
M4 = Poor automated baseline construction.

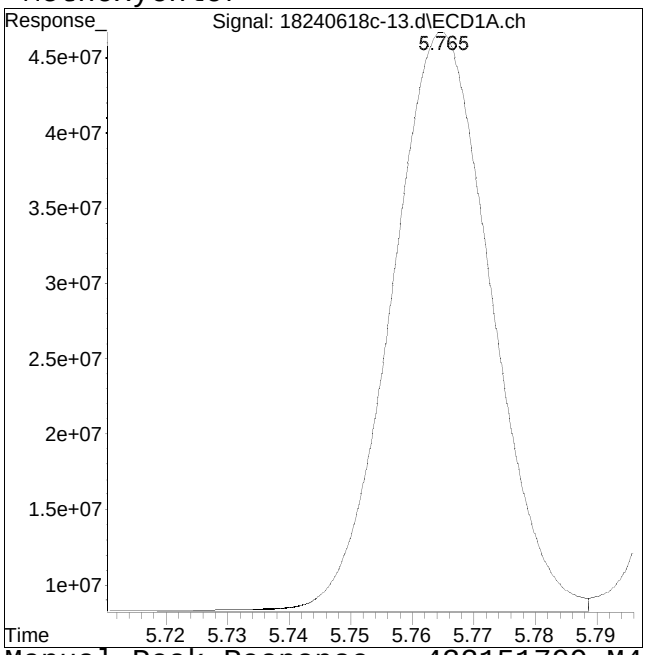
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #23: Methoxychlor



Original Peak Response = 434746561



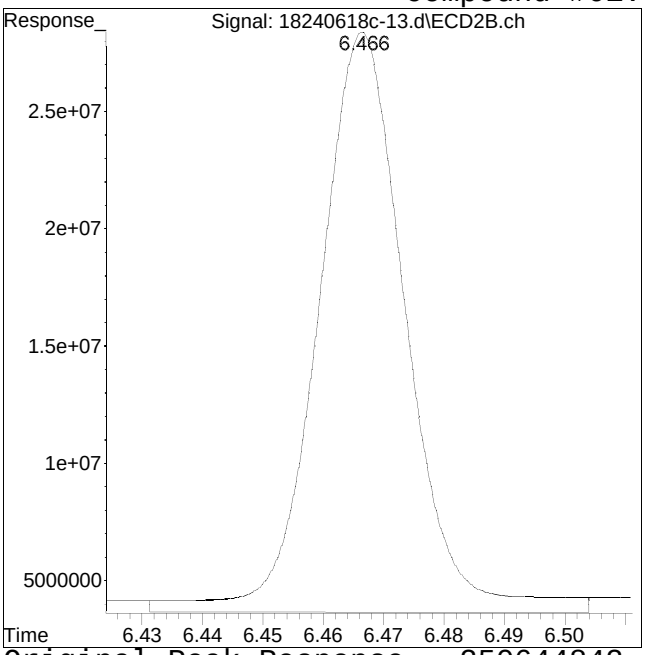
Manual Peak Response = 432151799 M4

M4 = Poor automated baseline construction.

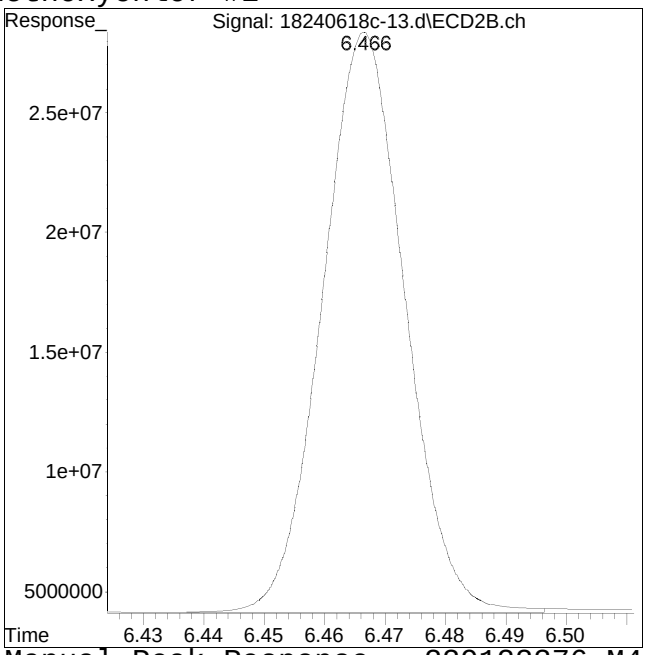
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #61: Methoxychlor #2



Original Peak Response = 250644842



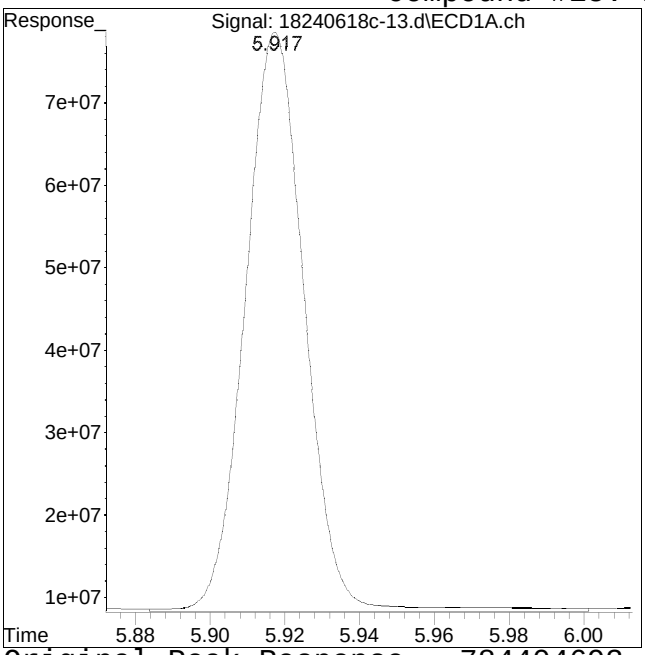
Manual Peak Response = 229122376 M4

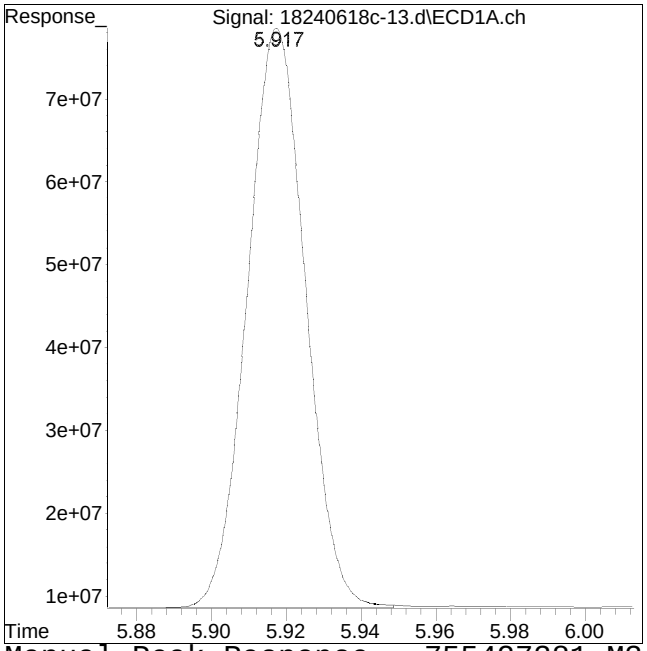
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #25: Endosulfan Sulfate



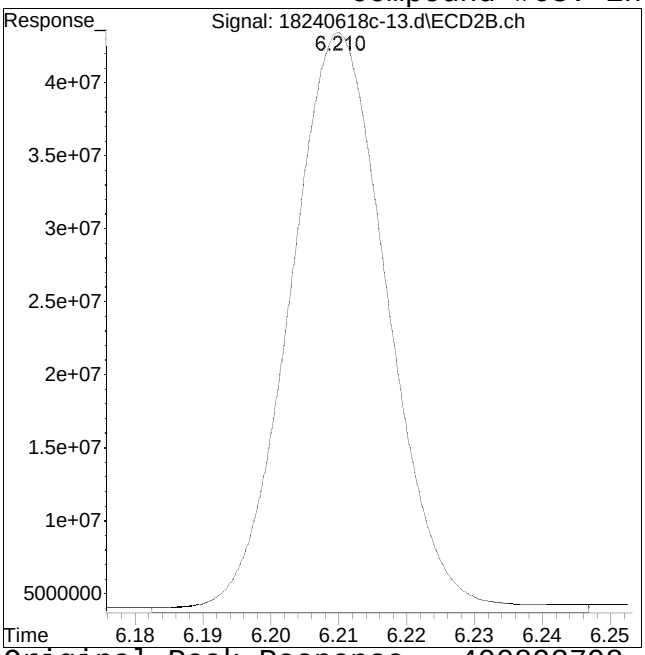


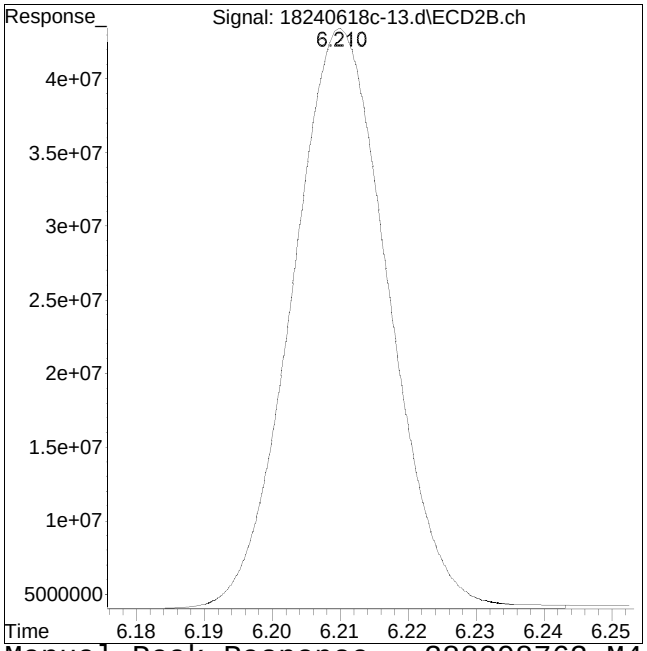
Original Peak Response = 784404693 Manual Peak Response = 755427381 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #63: Endosulfan Sulfate #2



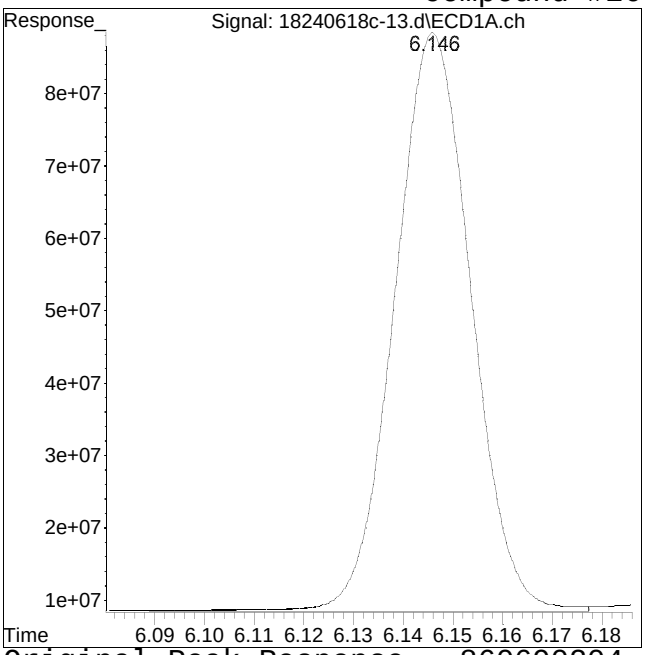


Original Peak Response = 400893798 Manual Peak Response = 388208763 M4
M4 = Poor automated baseline construction.

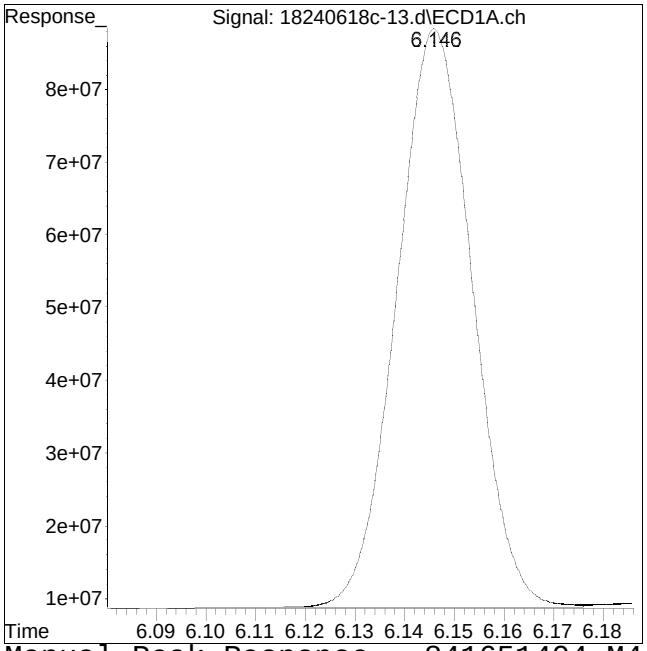
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #26: Endrin Ketone



Original Peak Response = 860690204



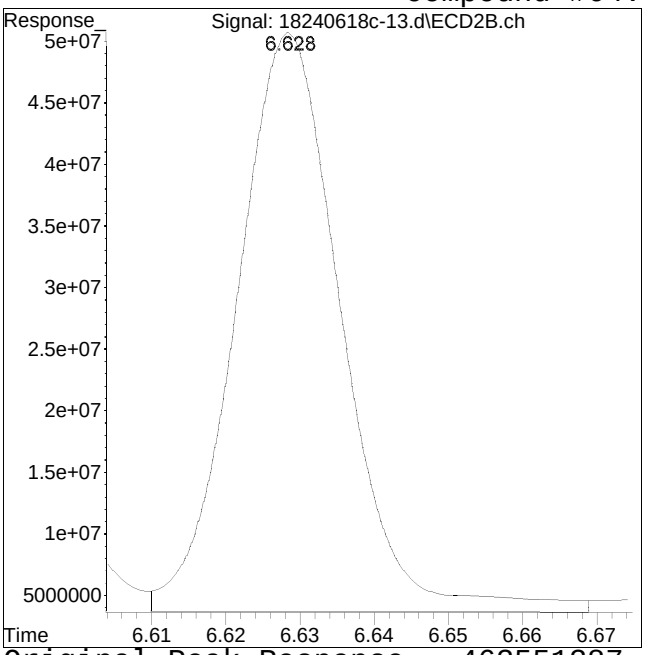
Manual Peak Response = 841651404 M4

M4 = Poor automated baseline construction.

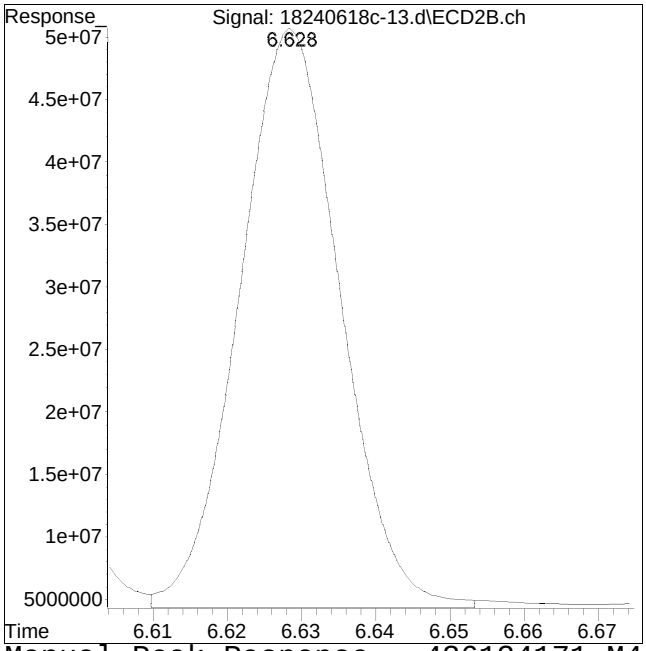
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 463551387



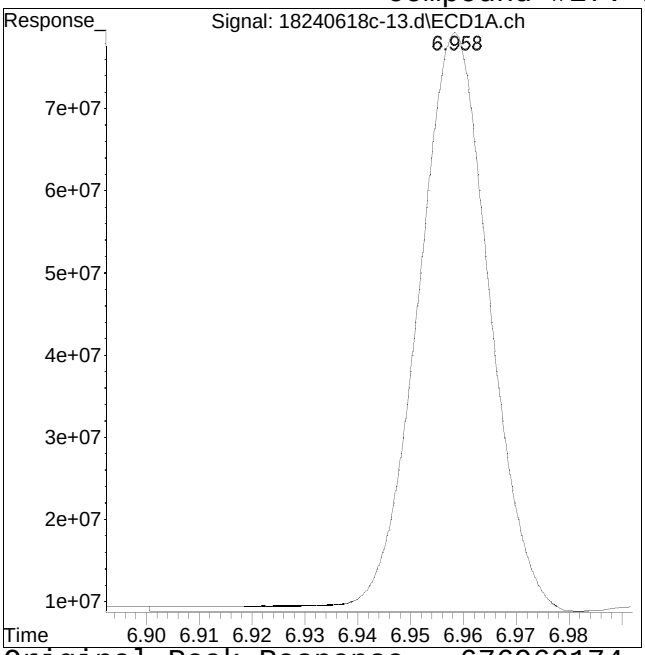
Manual Peak Response = 436134171 M4

M4 = Poor automated baseline construction.

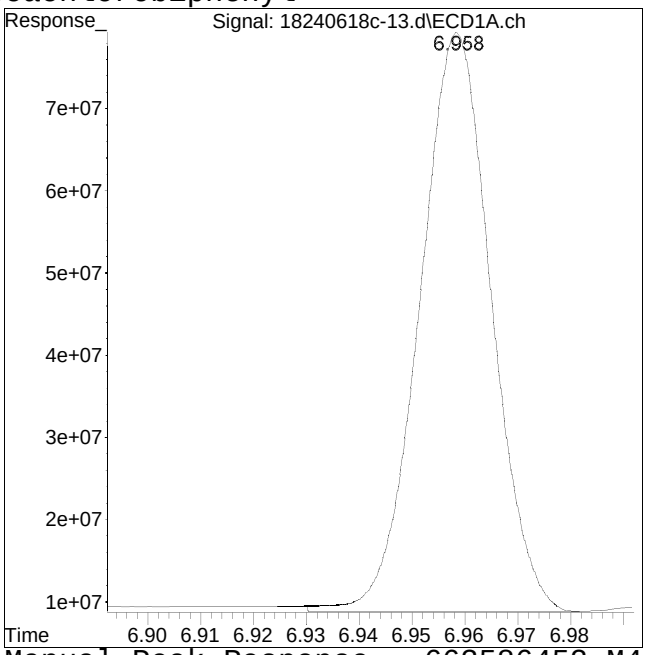
Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 676960174



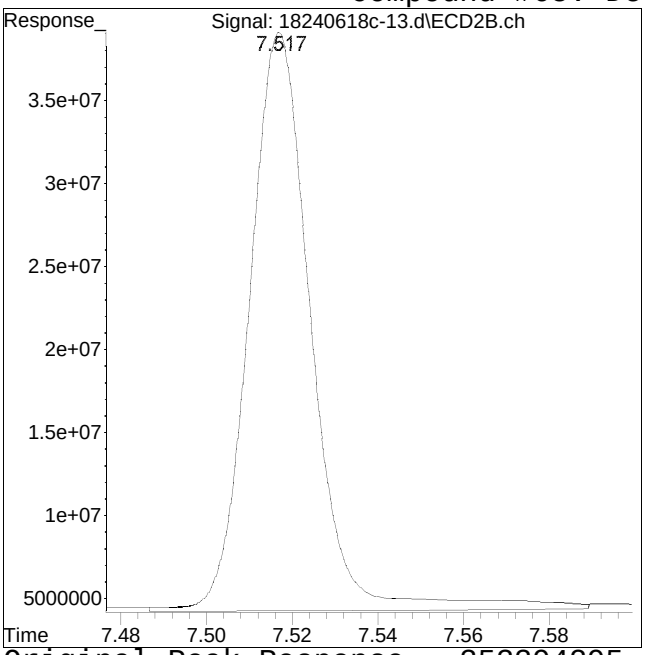
Manual Peak Response = 663586452 M4

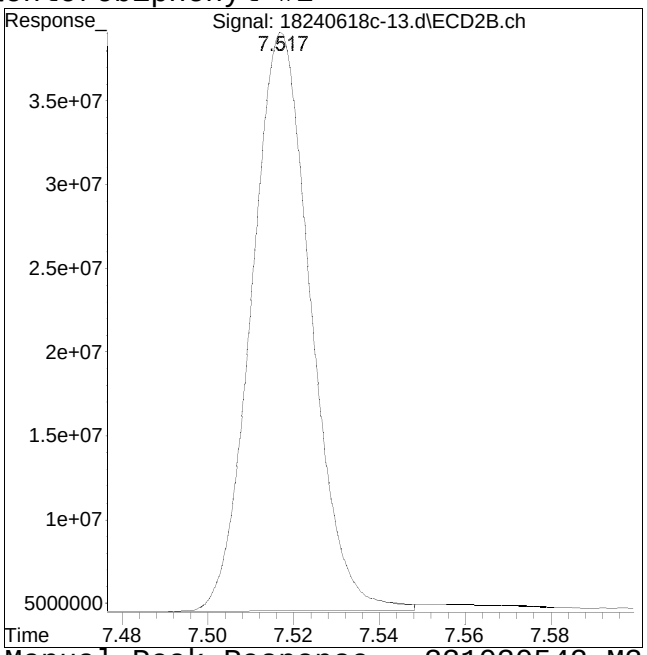
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2024\240618QMethod : pest18_2024_02_22_ugL_IC
Data File : 18240618c-13.d Operator : PEST18:mmg
Date Inj'd : 6/18/2024 14:48 Instrument : Pest 18
Sample : WG1934990-5,42,, msd Quant Date : 6/18/2024 3:34 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 353394295 Manual Peak Response = 331030542 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: Pest_18
Date: **02/22/24**
Run: **ical**

Method
GC: pest

Seq: WG1892874
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
1	18240222i-01	Blank,42e,,pp 11380 --			
2	18240222i-02	pem-01,42e,,pp 11372 --			EJL 2/26
3	18240222i-03	il1pest,42e,,pp 11406 L0.0005			EJL 2/26
4	18240222i-04	il2pest,42e,,pp 11405 L0.001			EJL 2/26
5	18240222i-05	il3pest,42e,,pp 11404 L0.002			EJL 2/26
6	18240222i-06	il4pest,42e,,pp 11403 L0.003			EJL 2/26
7	18240222i-07	il5pest,42e,,pp 11402 L0.004			EJL 2/26
8	18240222i-08	il7pest,42e,,pp 11401 L0.01			EJL 2/26
9	18240222i-09	il8pest,42e,,pp 11400 L0.05			EJL 2/26
10	18240222i-10	il9pest,42e,,pp 11399 L0.1			EJL 2/26
11	18240222i-11	il10pest,42e,,pp 11398 L0.2			EJL 2/26
12	18240222i-12	il11pest,42e,,pp 11397 L0.4			EJL 2/26
13	18240222i-13	cicvpest,42e,,pp 11430 L0.05ICV			EJL 2/26
14	18240222i-14	il3chlor,42e,,pp 11325 L0.01			
15	18240222i-15	il4chlor,42e,,pp 11324 L0.02			
16	18240222i-16	il5chlor,42e,,pp 11323 L0.1			
17	18240222i-17	il7chlor,42e,,pp 11322 L0.5			
18	18240222i-18	il8chlor,42e,,pp 11321 L1.0		mislabeled, duplicate of level 9	
19	18240222i-19	il9chlor,42e,,pp 11320 L2.0		error found outside of 24 hour time	
20	18240222i-20	il10chlor,42e,,pp 11319 L5.0		rerun ical section	
21	18240222i-21	cicvchlor,42e,,pp 11470 L1.0ICV			
22	18240222i-22	il3tox,42e,,pp 11328 L0.02			
23	18240222i-23	il4tox,42e,,pp 11495 L0.1		mislabeled, swapped with level 7	
24	18240222i-24	il7tox,42e,,pp 11496 L1.0		mislabeled, swapped with level 4	
25	18240222i-25	il8tox,42e,,pp 11497 L2.0		error found outside of 24 hour time	
26	18240222i-26	il9tox,42e,,pp 11326 L5.0		rerun ical section	
27	18240222i-27	cicvtox,42e,,pp 11438 L2.0ICV			
28	18240222i-28	Blank,42e,,pp 11380 --			
29	18240222i-29	pem-02,42e,,pp 11372 --			EJL 3/1
30	18240222i-30	il3chlor,42e,,pp 11509 L0.01			EJL 3/1
31	18240222i-31	il4chlor,42e,,pp 11508 L0.02			EJL 3/1
32	18240222i-32	il5chlor,42e,,pp 11507 L0.1			EJL 3/1
33	18240222i-33	il7chlor,42e,,pp 11506 L0.5			EJL 3/1
34	18240222i-34	il8chlor,42e,,pp 11505 L1.0			EJL 3/1
35	18240222i-35	il9chlor,42e,,pp 11504 L2.0			EJL 3/1
36	18240222i-36	il10chlor,42e,,pp 11503 L5.0		error when standard was made, remake	
37	18240222i-37	cicvchlor,42e,,pp 11470 L1.0ICV		rrun with level 10	
38	18240222i-38	il3tox,42e,,pp 11514 L0.02		math error when standards were made	
39	18240222i-39	il4tox,42e,,pp 11513 L0.1		remake and rerun levels 3-4, 7-8	
40	18240222i-40	il7tox,42e,,pp 11512 L1.0			
41	18240222i-41	il8tox,42e,,pp 11511 L2.0			
42	18240222i-42	il9tox,42e,,pp 11510 L5.0			EJL 3/1
43	18240222i-43	cicvtox,42e,,pp 11465 L2.0ICV		rerun with levels 3-4, 7-8	
44	18240222i-44	Blank,42e,,pp 11380 --			
45	18240222i-45	pem-03,42e,,pp 11372 --			EJL 3/4

Dep.: PEST
Inst: Pest_18
Date: **02/22/24**
Run: **ical**

Method
GC: pest

Seq: WG1892874
IS: pp11450

Vial	Data File	Sample	CCAL	notes	initials
46	18240222i-46	il10chlor,42e,,pp 11515 L5.0		not used	
47	18240222i-47	cicvchlor,42e,,pp 11470 L1.0ICV			EJL 3/4
48	18240222i-48	il3tox,42e,,pp 11519 L0.02			EJL 3/4
49	18240222i-49	il4tox,42e,,pp 11518 L0.1			EJL 3/4
50	18240222i-50	il7tox,42e,,pp 11517 L1.0			EJL 3/4
51	18240222i-51	il8tox,42e,,pp 11516 L2.0			EJL 3/4
52	18240222i-52	cicvtox,42e,,pp 11465 L2.0ICV			EJL 3/4

Dep.: PEST
Inst: Pest_15
Date: **06/12/24**
Run: **ical**

Method
GC: pest

Seq: WG1933928
IS: pp11530

Vial	Data File	Sample CCAL	notes	screen	initials
1	15240612i-01	blank,42e,,pp 11530 -			
2	15240612i-02	pem-01,42e,,pp 11529 -			KB 6/13
3	15240612i-03	il1pest,42e,,pp 11572 L0.0005			KB 6/13
4	15240612i-04	il2pest,42e,,pp 11571 L0.001			KB 6/13
5	15240612i-05	il3pest,42e,,pp 11570 L0.002			KB 6/13
6	15240612i-06	il4pest,42e,,pp 11569 L0.003			KB 6/13
7	15240612i-07	il5pest,42e,,pp 11568 L0.004			KB 6/13
8	15240612i-08	il7pest,42e,,pp 11567 L0.01			KB 6/13
9	15240612i-09	il8pest,42e,,pp 11566 L0.05			KB 6/13
10	15240612i-10	il9pest,42e,,pp 11565 L0.1			KB 6/13
11	15240612i-11	il10pest,42e,,pp 11564 L0.2			KB 6/13
12	15240612i-12	il11pest,42e,,pp 11563 L0.4			KB 6/13
13	15240612i-13	cicvpest,42e,,pp 11604 L0.05ICV			KB 6/13
14	15240612i-14	il3chlor,42e,,pp 11509 L0.01			KB 6/13
15	15240612i-15	il4chlor,42e,,pp 11508 L0.02			KB 6/13
16	15240612i-16	il5chlor,42e,,pp 11507 L0.1			KB 6/13
17	15240612i-17	il7chlor,42e,,pp 11506 L0.5			KB 6/13
18	15240612i-18	il8chlor,42e,,pp 11505 L1.0			KB 6/13
19	15240612i-19	il9chlor,42e,,pp 11504 L2.0			KB 6/13
20	15240612i-20	il10chlor,42e,,pp 11515 L5.0			KB 6/13
21	15240612i-21	cicvchlor,42e,,pp 11540 L1.0ICV			KB 6/13
22	15240612i-22	il3tox,42e,,pp 11519 L0.02			KB 6/13
23	15240612i-23	il4tox,42e,,pp 11518 L0.1			KB 6/13
24	15240612i-24	il7tox,42e,,pp 11517 L1.0			KB 6/13
25	15240612i-25	il8tox,42e,,pp 11516 L2.0			KB 6/13
26	15240612i-26	il9tox,42e,,pp 11510 L5.0			KB 6/13
27	15240612i-27	cicvtox,42e,,pp 11541 L2.0ICV			KB 6/13

Dep.: PEST
Inst: Pest_15
Date: **06/17/24**
Run: **a**

Method
GC: pest

Seq: wg1935124
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials	
1	15240617a-01	blank					
2	15240617a-02	deg11573	6:29			AKM 6/17	
3	15240617a-03	pest11595					
4	15240617a-04	chlor11612	20%			AKM 6/17	
5	15240617a-05	tox11541	15%			AKM 6/17	
6	15240617a-06	pest11595	20%			AKM 6/17	
7	15240617a-07	blank					
8	15240617a-08	L2400035-10,42,,		608 loq d2	AKM		
9	15240617a-09	WG1928927-1,42,,					
10	15240617a-10	WG1928927-2,42,,					
11	15240617a-11	WG1928927-3,42,,					
12	15240617a-12	WG1928927-4,42,,					
13	15240617a-13	WG1928927-5,42,,					
14	15240617a-14	WG1934990-1,42,,		971		EJL 6/17	
15	15240617a-15	WG1934990-2,42,,		971		EJL 6/17	
16	15240617a-16	WG1934990-3,42,,		971		EJL 6/17	
17	15240617a-17	L2433817-01,42,,,R3A		re		EJL 6/17	
18	15240617a-18	WG1934962-1,42,,			sid	sid 6/18	
19	15240617a-19	WG1934962-2,42,,				EMR 6/18	
20	15240617a-20	WG1934962-3,42,,				EMR 6/18	
21	15240617a-21	L2432791-01,42,,				EMR 6/18	
22	15240617a-22	L2432791-02,42,,				EMR 6/18	
23	15240617a-23	L2432791-05,42,,				EMR 6/18	
24	15240617a-24	L2432791-06,42,,		2x dilution DDE			
25	15240617a-25	L2433512-01,42,,,R3C				EMR 6/18	
26	15240617a-26	L2432563-03,42,,,R3E				EMR 6/18	
27	15240617a-27	L2432723-01,42,,				EMR 6/18	
28	15240617a-28	L2432723-02,42,,				EMR 6/18	
29	15240617a-29	L2432723-03,42,,				EMR 6/18	
30	15240617a-30	L2432723-04,42,,				EMR 6/18	
31	15240617a-31	L2432740-01,42,,			EJL	EMR 6/18	
32	15240617a-32	L2432740-02,42,,				EMR 6/18	
33	15240617a-33	L2432740-03,42,,				EMR 6/18	
34	15240617a-34	L2432740-04,42,,				EMR 6/18	
35	15240617a-35	L2432740-05,42,,				EMR 6/18	
36	15240617a-36	L2432740-06,42,,				EMR 6/18	
37	15240617a-37	L2432740-07,42,,				EMR 6/18	
38	15240617a-38	L2432740-08,42,,				EMR 6/18	
39	15240617a-39	pest11595	20%			EJL 6/17	V to F39 akm
40	15240617a-40	blank					
41	15240617a-41	L2432740-09,42,,			EJL	EMR 6/18	
42	15240617a-42	L2432791-09,42,,				EMR 6/18	
43	15240617a-43	L2432791-10,42,,				EMR 6/18	
44	15240617a-44	L2432791-13,42,,				EMR 6/18	
45	15240617a-45	L2432791-14,42,,				EMR 6/18	

Dep.: PEST
Inst: Pest_15
Date: **06/17/24**
Run: **a**

Method
GC: pest

Seq: wg1935124
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials	
46	15240617a-46	L2432791-17,42,,				EMR 6/18	
47	15240617a-47	L2432791-18,42,,				EMR 6/18	
48	15240617a-48	L2432791-21,42,,				EMR 6/18	
49	15240617a-49	L2432791-22,42,,				EMR 6/18	
50	15240617a-50	WG1934962-4,42,,				EMR 6/18	
51	15240617a-51	WG1934962-5,42,,				EMR 6/18	
52	15240617a-52	L2432791-25,42,,				EMR 6/18	
53	15240617a-53	L2432791-26,42,,				EMR 6/18	
54	15240617a-54	L2432791-29,42,,				EMR 6/18	
55	15240617a-55	L2432791-30,42,,				EMR 6/18	
56	15240617a-56	L2432791-33,42,,				EMR 6/18	
57	15240617a-57	L2432804-01,42,,				EMR 6/18	
58	15240617a-58	L2432804-03,42,,				EMR 6/18	
59	15240617a-59	L2432804-07,42,,				EMR 6/18	V to F59 EJL
60	15240617a-60	L2432791-06,42,2,	DDE	ok, injected 18:25			V to F60 SID

Dep.: PEST
Inst: Pest_18
Date: **06/18/24**
Run: c

Method
GC: pest

Seq: wg1935928
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
1	18240618c-01	blank				
2	18240618c-02	deg11573	12:05			EMR 6/18
3	18240618c-03	pest11595	b: many high			EMR 6/18
4	18240618c-04	chlor11612	15%			EMR 6/18
5	18240618c-05	tox11615	b: high			EMR 6/18
6	18240618c-06	blank				
7	18240618c-07	L2432970-09,42,,				MMG 6/19
8	18240618c-08	L2432996-06,42,,				MMG 6/19
9	18240618c-09	L2433035-01,42,,				MMG 6/19
10	18240618c-10	L2433035-02,42,,				MMG 6/19
11	18240618c-11	L2433035-03,42,,	p			MMG 6/19
12	18240618c-12	WG1934990-4,42,,	ms			MMG 6/19
13	18240618c-13	WG1934990-5,42,,	msd			MMG 6/19
14	18240618c-14	L2433035-04,42,,				MMG 6/19
15	18240618c-15	L2433035-05,42,,				MMG 6/19
16	18240618c-16	L2433035-06,42,,				MMG 6/19
17	18240618c-17	L2433035-07,42,,				MMG 6/19
18	18240618c-18	L2433035-08,42,,				MMG 6/19
19	18240618c-19	L2433035-09,42,,				MMG 6/19
20	18240618c-20	L2433035-10,42,,				MMG 6/19

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 19 2024, 12:06 pm

Work Group: WG1934990 for Department: 2 Organic Preparation

Created: 16-JUN-24 Due: Operator: NBD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2432563-01	EB-061124	S	NYTCL-8081	WATER	DONE	U	0618	0618	3E	
L2432791-34	FB_06112024	S	NYTCL-8081	WATER	DONE	U	0618	0618	S0	Amber-A.120
L2432970-09	FIELD BLANK EAST YOUNG	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2432996-05	FH-GW-1	C	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2432996-06	FH-GW-4	C	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-01	MW-8S	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-02	MW-8D	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-03	MW-1SR	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-04	MW-1DR2	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-05	MP-1	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-06	MP-1D	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-07	PZ-6	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-08	MW-6D	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-09	EB_06122024	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433035-10	DUP_06122024	S	NYTCL-8081	WATER	DONE	U	0619	0619	S0	Amber-A.120
L2433817-01	GW-17A-061424	S	NYTCL-8081	WATER	DONE	U	0621	0617	3A	Amber-A.120
WG1934990-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1934990-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1934990-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1934990-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1934990-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1934990-3	WG1934990-2
WG1934990-4	L2433035-03
WG1934990-5	L2433035-03

ORGANIC ELN REPORT

Workgroup: WG1934990

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: Pesticide/PCB
Spike Type: Pesticide
Spike Verify by: NBD / ZCH
Lims Spikelot: PEST_LVI
Lot #: EI560
Lot #: PP11616ae,11/22/2024,2c,5,1
Lot #: PP11566aa,10/09/2024,7c,5,1

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI504

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2432563-01 SAMP	06/16/24 13:38	Zachary Helin	140	>5, <9	.25		06/17/24 03:01	Rabbi Kyei-Baffour	1	D / A / #1
L2432791-34 SAMP	06/16/24 13:38	Zachary Helin	140	>5, <9	.25		06/17/24 03:01	Rabbi Kyei-Baffour	1	D / A / #1
L2432970-09 WATER	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2432996-05 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2432996-06 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-01 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3

Reported: 19-JUN-24 12:06 PM

ORGANIC ELN REPORT

Workgroup: WG1934990

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433035-02 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-03 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-04 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-05 SAMP	06/17/24 11:28	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-06 SAMP	06/17/24 11:29	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-07 SAMP	06/17/24 11:29	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-08 SAMP	06/17/24 11:29	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433035-09 SAMP	06/17/24 11:29	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3

Reported: 19-JUN-24 12:06 PM

ORGANIC ELN REPORT

Workgroup: WG1934990

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2433035-10 SAMP	06/17/24 11:29	Zachary Helin	140	>5, <9	.25		06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
L2433817-01 SAMP	06/16/24 13:38	Zachary Helin	140	>5, <9	.25		06/17/24 03:01	Rabbi Kyei-Baffour	1	D / A / #1
WG1934990-1 BLANK	06/16/24 13:38 **WG1934971**	Nicholas Dunn	140	>5, <9	.25		06/17/24 02:59	Rabbi Kyei-Baffour	1	D / A / #1
WG1934990-2 LCS	06/16/24 13:38	Nicholas Dunn	140	>5, <9	.25	.25	06/17/24 02:59	Rabbi Kyei-Baffour	1	D / A / #1
WG1934990-3 LCSD	06/16/24 13:38	Nicholas Dunn	140	>5, <9	.25	.25	06/17/24 02:59	Rabbi Kyei-Baffour	1	D / A / #1
WG1934990-4 MS	06/17/24 11:28 **SPIKE: PP11566ag,10/09/2024,7c,5,1**	Zachary Helin	140	>5, <9	.25	.25	06/17/24 14:21	Tian-Long Chheou	1	H, K, 3
WG1934990-5 MSD	06/17/24 11:28 **SPIKE: PP11566ag,10/09/2024,7c,5,1**	Zachary Helin	140	>5, <9	.25	.25	06/17/24 14:21	Tian-Long Chheou	1	H, K, 3

Reported: 19-JUN-24 12:06 PM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 22:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0165	0.0100	0.0021	
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	19.8	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0248	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.96	0.100	0.0153	
7439-96-5	Manganese, Total	0.0042	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	4.02	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 22:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0445	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0023	0.0050	0.0019	J
7440-39-3	Barium, Total	0.0226	0.0100	0.0021	
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	10.3	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	0.0029	0.0200	0.0017	J
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	2.80	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.49	0.100	0.0153	
7439-96-5	Manganese, Total	0.0398	0.0100	0.0016	
7440-02-0	Nickel, Total	0.0033	0.0250	0.0024	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.25	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0056	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-1	**Date Collected**	: NA
Client ID	: WG1935332-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 22:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/17/24 22:38
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	20.6	0.500	0.175	
7439-95-4	Magnesium, Total	5.08	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-8	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2DUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/17/24 23:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.032	U
7440-36-0	Antimony, Total	ND	0.0500	0.007	U
7440-38-2	Arsenic, Total	0.0024	0.0050	0.002	J
7440-39-3	Barium, Total	0.0238	0.0100	0.002	
7440-43-9	Cadmium, Total	ND	0.0050	0.001	U
7440-70-2	Calcium, Total	10.7	0.100	0.035	
7440-47-3	Chromium, Total	ND	0.0100	0.002	U
7440-48-4	Cobalt, Total	0.0031	0.0200	0.002	J
7440-50-8	Copper, Total	ND	0.0100	0.002	U
7439-89-6	Iron, Total	2.92	0.0500	0.009	
7439-92-1	Lead, Total	ND	0.0100	0.003	U
7439-95-4	Magnesium, Total	4.52	0.100	0.015	
7439-96-5	Manganese, Total	0.0413	0.0100	0.002	
7440-02-0	Nickel, Total	ND	0.0250	0.002	U
7782-49-2	Selenium, Total	ND	0.0100	0.004	U
7440-22-4	Silver, Total	ND	0.0070	0.003	U
7440-23-5	Sodium, Total	8.62	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.003	U
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U
7440-66-6	Zinc, Total	0.0068	0.0050	0.002	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 06/17/24 23:07
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1935383.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	10.2	0.500	0.175	
7439-89-6	Iron, Total	2.88	0.250	0.045	
7439-95-4	Magnesium, Total	4.51	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0421	0.100	0.0318	J
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0553	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	8.52	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	3.69	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.141	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.06	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	4.22	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0295	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.1	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.59	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.14	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	16.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0154	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	19.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.90	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0046	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.862	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	4.01	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0219	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	10.2	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	0.0025	0.0200	0.0017	J
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	2.50	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.37	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0402	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.907	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.31	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0056	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 16:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0159	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	22.0	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.32	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.49	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	12.1	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0140	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	17.9	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0023	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0022	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	0.0184	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	8.67	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0016	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.35	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	13.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0716	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	96.5	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0042	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	16.2	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.109	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	6.27	2.50	0.237	
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	11.1	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0103	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	10.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0023	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.20	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0031	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.02	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	16.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0094	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 17:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0222	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	10.1	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	0.0023	0.0200	0.0017	J
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	2.50	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.51	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0388	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.927	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.27	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0054	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935323-1	**Date Collected**	: NA
Client ID	: WG1935323-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 16:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1935555.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1935552.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-09-7	Potassium, Total	0.923	2.50	0.237	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1935552.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-09-7	Potassium, Total	0.927	2.50	0.237	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-1	**Date Collected**	: NA
Client ID	: WG1935332-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 13:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1935552.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935332-8	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2DUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 14:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: JMF
Lab File ID	: WG1935552.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-41-7	Beryllium, Total	ND	0.0050	0.001	U
7440-09-7	Potassium, Total	0.981	2.50	0.237	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	1.11	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0683	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	9.09	0.100	0.0350	
7440-47-3	Chromium, Total	0.0025	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0040	0.0100	0.0022	J
7439-89-6	Iron, Total	1.61	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.24	0.100	0.0153	
7439-96-5	Manganese, Total	0.211	0.0100	0.0016	
7440-02-0	Nickel, Total	0.0029	0.0250	0.0024	J
7440-09-7	Potassium, Total	1.43	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	4.82	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	0.0024	0.0100	0.0020	J
7440-66-6	Zinc, Total	0.0062	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0963	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0301	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	12.4	0.100	0.0350	
7440-47-3	Chromium, Total	0.0041	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.262	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.78	0.100	0.0153	
7439-96-5	Manganese, Total	0.0047	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.21	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	17.6	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0162	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	23.1	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0213	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.57	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.56	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	13.4	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 14:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0734	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0156	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	19.8	0.100	0.0350	
7440-47-3	Chromium, Total	0.0036	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.104	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	9.60	0.100	0.0153	
7439-96-5	Manganese, Total	0.0027	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.50	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	15.7	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0023	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0690	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	87.3	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	0.0035	0.0100	0.0022	J
7439-89-6	Iron, Total	0.0222	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	14.6	0.100	0.0153	
7439-96-5	Manganese, Total	0.121	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	5.99	2.50	0.237	
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	11.2	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0893	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0111	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	11.5	0.100	0.0350	
7440-47-3	Chromium, Total	0.0031	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.181	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.50	0.100	0.0153	
7439-96-5	Manganese, Total	0.0118	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.08	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	18.2	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	0.0408	0.100	0.0350	J
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	0.146	2.00	0.120	J
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0103	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 15:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG1936236.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0220	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	10.3	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	0.0025	0.0200	0.0017	J
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	2.97	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.59	0.100	0.0153	
7439-96-5	Manganese, Total	0.0411	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.915	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.93	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0059	0.0050	0.0021	

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842124-1									
Date Analyzed	:	06/17/24 15:26									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.5060	101							
Antimony		0.500	0.5230	105							
Arsenic		0.500	0.4830	97							
Barium		0.500	0.5150	103							
Cadmium		0.500	0.5040	101							
Calcium		0.500	0.4980	100							
Chromium		0.500	0.4960	99							
Cobalt		0.500	0.5170	103							
Copper		0.500	0.5030	101							
Iron		0.500	0.5270	105							
Lead		0.500	0.5030	101							
Magnesium		0.500	0.4940	99							
Manganese		0.500	0.5030	101							
Nickel		0.500	0.5110	102							
Selenium		0.500	0.4960	99							
Silver		0.500	0.5110	102							
Sodium		10.0	10.5000	105							
Thallium		0.500	0.5050	101							
Vanadium		0.500	0.4960	99							
Zinc		0.500	0.5080	102							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842124-3			R1842124-6			R1842124-8		R1842124-10	
Date Analyzed:	06/17/24 15:34			06/17/24 17:55			06/17/24 19:40		06/17/24 20:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5220	104	0.5000	0.511	102	0.498	100	0.487	97
Antimony	0.500	0.5290	106	0.5000	0.522	104	0.501	100	0.512	102
Arsenic	0.500	0.4930	99	0.5000	0.491	98	0.472	94	0.470	94
Barium	0.500	0.5260	105	0.5000	0.522	104	0.508	102	0.505	101
Cadmium	0.500	0.5100	102	0.5000	0.505	101	0.494	99	0.508	102
Calcium	0.500	0.5160	103	0.5000	0.508	102	0.499	100	0.498	100
Chromium	0.500	0.5030	101	0.5000	0.500	100	0.488	98	0.495	99
Cobalt	0.500	0.5220	104	0.5000	0.519	104	0.507	101	0.517	103
Copper	0.500	0.5100	102	0.5000	0.510	102	0.492	98	0.500	100
Iron	0.500	0.5340	107	0.5000	0.526	105	0.528	106	0.522	104
Lead	0.500	0.5120	102	0.5000	0.508	102	0.491	98	0.493	99
Magnesium	0.500	0.4990	100	0.5000	0.495	99	0.486	97	0.495	99
Manganese	0.500	0.5080	102	0.5000	0.502	100	0.492	98	0.490	98
Nickel	0.500	0.5190	104	0.5000	0.514	103	0.503	101	0.513	103
Selenium	0.500	0.5060	101	0.5000	0.499	100	0.483	97	0.480	96
Silver	0.500	0.5220	104	0.5000	0.522	104	0.504	101	0.512	102
Sodium	10.0	10.4000	104	10.0000	10.3	103	9.99	100	9.94	99
Thallium	0.500	0.5130	103	0.5000	0.510	102	0.491	98	0.491	98
Vanadium	0.500	0.5010	100	0.5000	0.496	99	0.484	97	0.493	99
Zinc	0.500	0.5120	102	0.5000	0.523	105	0.512	102	0.523	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842124-12			R1842124-14		R1842124-16	
Date Analyzed :				06/17/24 21:02			06/17/24 22:42		06/17/24 23:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.491	98	0.502	100	0.481	96
Antimony				0.5000	0.506	101	0.516	103	0.512	102
Arsenic				0.5000	0.474	95	0.484	97	0.473	95
Barium				0.5000	0.506	101	0.514	103	0.501	100
Cadmium				0.5000	0.506	101	0.508	102	0.504	101
Calcium				0.5000	0.501	100	0.510	102	0.488	98
Chromium				0.5000	0.493	99	0.499	100	0.495	99
Cobalt				0.5000	0.516	103	0.519	104	0.515	103
Copper				0.5000	0.493	99	0.502	100	0.497	99
Iron				0.5000	0.516	103	0.524	105	0.506	101
Lead				0.5000	0.496	99	0.509	102	0.494	99
Magnesium				0.5000	0.491	98	0.496	99	0.495	99
Manganese				0.5000	0.494	99	0.504	101	0.492	98
Nickel				0.5000	0.509	102	0.517	103	0.513	103
Selenium				0.5000	0.482	96	0.496	99	0.482	96
Silver				0.5000	0.508	102	0.514	103	0.507	101
Sodium				10.0000	10.0	100	10.1	101	10.1	101
Thallium				0.5000	0.494	99	0.506	101	0.493	99
Vanadium				0.5000	0.488	98	0.495	99	0.492	98
Zinc				0.5000	0.517	103	0.527	105	0.506	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842259-1									
Date Analyzed :	06/18/24 04:52									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.5040	101							
Antimony	0.500	0.5260	105							
Arsenic	0.500	0.4810	96							
Barium	0.500	0.5030	101							
Beryllium	0.500	0.5180	104							
Cadmium	0.500	0.5060	101							
Calcium	0.500	0.4930	99							
Chromium	0.500	0.4930	99							
Cobalt	0.500	0.5140	103							
Copper	0.500	0.4970	99							
Iron	0.500	0.5300	106							
Lead	0.500	0.5030	101							
Magnesium	0.500	0.4930	99							
Manganese	0.500	0.4920	98							
Nickel	0.500	0.5080	102							
Potassium	5.00	5.1800	104							
Selenium	0.500	0.4950	99							
Silver	0.500	0.5050	101							
Sodium	10.0	10.2000	102							
Thallium	0.500	0.5110	102							
Vanadium	0.500	0.4920	98							
Zinc	0.500	0.5070	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842259-3			R1842259-6			R1842259-8		R1842259-10	
Date Analyzed:	06/18/24 04:58			06/18/24 06:38			06/18/24 07:26		06/18/24 08:08	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4880	98	0.5000	0.523	105	0.508	102	0.498	100
Antimony	0.500	0.5110	102	0.5000	0.507	101	0.498	100	0.502	100
Arsenic	0.500	0.4770	95	0.5000	0.487	97	0.472	94	0.474	95
Barium	0.500	0.4970	99	0.5000	0.513	103	0.489	98	0.491	98
Beryllium	0.500	0.5130	103	0.5000	0.521	104	0.505	101	0.502	100
Cadmium	0.500	0.4960	99	0.5000	0.491	98	0.487	97	0.485	97
Calcium	0.500	0.4840	97	0.5000	0.499	100	0.474	95	0.472	94
Chromium	0.500	0.4910	98	0.5000	0.485	97	0.480	96	0.483	97
Cobalt	0.500	0.5060	101	0.5000	0.505	101	0.497	99	0.496	99
Copper	0.500	0.4920	98	0.5000	0.494	99	0.485	97	0.489	98
Iron	0.500	0.5040	101	0.5000	0.517	103	0.500	100	0.499	100
Lead	0.500	0.4970	99	0.5000	0.502	100	0.490	98	0.496	99
Magnesium	0.500	0.4860	97	0.5000	0.482	96	0.474	95	0.478	96
Manganese	0.500	0.4910	98	0.5000	0.492	98	0.478	96	0.477	95
Nickel	0.500	0.5070	101	0.5000	0.503	101	0.498	100	0.504	101
Potassium	5.00	5.1300	103	5.0000	5.26	105	5.04	101	5.02	100
Selenium	0.500	0.4890	98	0.5000	0.498	100	0.483	97	0.486	97
Silver	0.500	0.5000	100	0.5000	0.504	101	0.491	98	0.494	99
Sodium	10.0	10.0000	100	10.0000	10.1	101	9.71	97	9.64	96
Thallium	0.500	0.5010	100	0.5000	0.507	101	0.495	99	0.498	100
Vanadium	0.500	0.4860	97	0.5000	0.487	97	0.479	96	0.480	96
Zinc	0.500	0.5040	101	0.5000	0.512	102	0.493	99	0.497	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842259-12			R1842259-14		R1842259-16	
Date Analyzed :				06/18/24 09:10			06/18/24 09:55		06/18/24 10:39	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.494	99	0.503	101	0.495	99
Antimony				0.5000	0.494	99	0.476	95	0.472	94
Arsenic				0.5000	0.465	93	0.461	92	0.459	92
Barium				0.5000	0.489	98	0.488	98	0.474	95
Beryllium				0.5000	0.502	100	0.502	100	0.489	98
Cadmium				0.5000	0.484	97	0.466	93	0.471	94
Calcium				0.5000	0.472	94	0.468	94	0.462	92
Chromium				0.5000	0.479	96	0.462	92	0.457	91
Cobalt				0.5000	0.496	99	0.478	96	0.476	95
Copper				0.5000	0.484	97	0.468	94	0.461	92
Iron				0.5000	0.500	100	0.501	100	0.487	97
Lead				0.5000	0.486	97	0.481	96	0.474	95
Magnesium				0.5000	0.473	95	0.456	91	0.455	91
Manganese				0.5000	0.476	95	0.474	95	0.463	93
Nickel				0.5000	0.500	100	0.478	96	0.471	94
Potassium				5.0000	5.04	101	5.01	100	4.89	98
Selenium				0.5000	0.477	95	0.473	95	0.462	92
Silver				0.5000	0.489	98	0.473	95	0.468	94
Sodium				10.0000	9.62	96	9.64	96	9.36	94
Thallium				0.5000	0.490	98	0.485	97	0.479	96
Vanadium				0.5000	0.480	96	0.462	92	0.456	91
Zinc				0.5000	0.492	98	0.472	94	0.468	94

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842259-18			R1842259-20		R1842259-22	
Date Analyzed :				06/18/24 11:30			06/18/24 12:06		06/18/24 12:13	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.491	98	0.490	98	0.478	96
Antimony				0.5000	0.477	95	0.473	95	0.473	95
Arsenic				0.5000	0.462	92	0.456	91	0.453	91
Barium				0.5000	0.475	95	0.475	95	0.462	92
Beryllium				0.5000	0.483	97	0.482	96	0.470	94
Cadmium				0.5000	0.464	93	0.460	92	0.462	92
Calcium				0.5000	0.457	91	0.455	91	0.440	88
Chromium				0.5000	0.455	91	0.452	90	0.446	89
Cobalt				0.5000	0.470	94	0.467	93	0.466	93
Copper				0.5000	0.460	92	0.457	91	0.452	90
Iron				0.5000	0.481	96	0.474	95	0.468	94
Lead				0.5000	0.470	94	0.465	93	0.458	92
Magnesium				0.5000	0.448	90	0.446	89	0.443	89
Manganese				0.5000	0.460	92	0.457	91	0.446	89
Nickel				0.5000	0.469	94	0.466	93	0.458	92
Potassium				5.0000	4.91	98	4.93	99	4.80	96
Selenium				0.5000	0.464	93	0.460	92	0.452	90
Silver				0.5000	0.467	93	0.465	93	0.457	91
Sodium				10.0000	9.39	94	9.39	94	9.32	93
Thallium				0.5000	0.475	95	0.471	94	0.465	93
Vanadium				0.5000	0.454	91	0.452	90	0.445	89
Zinc				0.5000	0.463	93	0.460	92	0.455	91

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842259-24									
Date Analyzed	:	06/18/24 12:45									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4810	96							
Antimony		0.500	0.5080	102							
Arsenic		0.500	0.4740	95							
Barium		0.500	0.4980	100							
Beryllium		0.500	0.5100	102							
Cadmium		0.500	0.5030	101							
Calcium		0.500	0.4860	97							
Chromium		0.500	0.4910	98							
Cobalt		0.500	0.5120	102							
Copper		0.500	0.4960	99							
Iron		0.500	0.5090	102							
Lead		0.500	0.4950	99							
Magnesium		0.500	0.4860	97							
Manganese		0.500	0.4900	98							
Nickel		0.500	0.5120	102							
Potassium		5.00	5.1100	102							
Selenium		0.500	0.4920	98							
Silver		0.500	0.5020	100							
Sodium		10.0	9.9600	100							
Thallium		0.500	0.4980	100							
Vanadium		0.500	0.4890	98							
Zinc		0.500	0.5080	102							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842259-26			R1842259-29			R1842259-31		R1842259-33	
Date Analyzed:	06/18/24 12:53			06/18/24 14:21			06/18/24 15:14		06/18/24 15:53	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4770	95	0.5000	0.464	93	0.464	93	0.469	94
Antimony	0.500	0.5090	102	0.5000	0.496	99	0.484	97	0.511	102
Arsenic	0.500	0.4740	95	0.5000	0.466	93	0.459	92	0.460	92
Barium	0.500	0.5020	100	0.5000	0.484	97	0.479	96	0.480	96
Beryllium	0.500	0.5140	103	0.5000	0.497	99	0.494	99	0.495	99
Cadmium	0.500	0.5030	101	0.5000	0.490	98	0.482	96	0.505	101
Calcium	0.500	0.4870	97	0.5000	0.475	95	0.472	94	0.472	94
Chromium	0.500	0.4940	99	0.5000	0.485	97	0.474	95	0.492	98
Cobalt	0.500	0.5140	103	0.5000	0.505	101	0.495	99	0.516	103
Copper	0.500	0.4990	100	0.5000	0.489	98	0.482	96	0.502	100
Iron	0.500	0.5100	102	0.5000	0.491	98	0.490	98	0.492	98
Lead	0.500	0.4970	99	0.5000	0.493	99	0.485	97	0.487	97
Magnesium	0.500	0.4910	98	0.5000	0.481	96	0.472	94	0.489	98
Manganese	0.500	0.4910	98	0.5000	0.477	95	0.470	94	0.473	95
Nickel	0.500	0.5120	102	0.5000	0.500	100	0.489	98	0.505	101
Potassium	5.00	5.1400	103	5.0000	4.97	99	4.93	99	4.96	99
Selenium	0.500	0.4930	99	0.5000	0.478	96	0.480	96	0.477	95
Silver	0.500	0.5070	101	0.5000	0.494	99	0.484	97	0.504	101
Sodium	10.0	9.9800	100	10.0000	9.66	97	9.62	96	9.56	96
Thallium	0.500	0.5000	100	0.5000	0.492	98	0.488	98	0.489	98
Vanadium	0.500	0.4930	99	0.5000	0.481	96	0.474	95	0.491	98
Zinc	0.500	0.5090	102	0.5000	0.500	100	0.489	98	0.506	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842259-35			R1842259-37			
Date Analyzed :				06/18/24 16:48			06/18/24 18:06			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.460	92	0.475	95		
Antimony				0.5000	0.501	100	0.505	101		
Arsenic				0.5000	0.462	92	0.467	93		
Barium				0.5000	0.480	96	0.489	98		
Beryllium				0.5000	0.493	99	0.505	101		
Cadmium				0.5000	0.490	98	0.499	100		
Calcium				0.5000	0.472	94	0.481	96		
Chromium				0.5000	0.482	96	0.491	98		
Cobalt				0.5000	0.502	100	0.511	102		
Copper				0.5000	0.487	97	0.497	99		
Iron				0.5000	0.487	97	0.499	100		
Lead				0.5000	0.489	98	0.498	100		
Magnesium				0.5000	0.479	96	0.490	98		
Manganese				0.5000	0.472	94	0.482	96		
Nickel				0.5000	0.498	100	0.506	101		
Potassium				5.0000	4.93	99	5.00	100		
Selenium				0.5000	0.478	96	0.482	96		
Silver				0.5000	0.492	98	0.503	101		
Sodium				10.0000	9.59	96	9.69	97		
Thallium				0.5000	0.489	98	0.494	99		
Vanadium				0.5000	0.478	96	0.490	98		
Zinc				0.5000	0.496	99	0.506	101		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842282-1									
Date Analyzed	:	06/18/24 04:44									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5060	101							
Beryllium		0.500	0.5150	103							
Potassium		5.00	5.2600	105							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842282-3			R1842282-6			R1842282-8		R1842282-10	
Date Analyzed :	06/18/24 04:52			06/18/24 07:16			06/18/24 08:19		06/18/24 09:08	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5200	104	0.5000	0.497	99	0.512	102	0.504	101
Beryllium	0.500	0.5270	105	0.5000	0.520	104	0.518	104	0.517	103
Potassium	5.00	5.4100	108	5.0000	5.27	105	5.28	106	5.27	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842282-12			R1842282-14		R1842282-16	
Date Analyzed :				06/18/24 10:05			06/18/24 10:59		06/18/24 11:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.505	101	0.511	102	0.508	102
Beryllium				0.5000	0.515	103	0.517	103	0.517	103
Potassium				5.0000	5.20	104	5.23	105	5.11	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842282-18			R1842282-20		R1842282-22	
Date Analyzed :				06/18/24 12:56			06/18/24 13:34		06/18/24 14:16	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.511	102	0.508	102	0.512	102
Beryllium				0.5000	0.519	104	0.515	103	0.511	102
Potassium				5.0000	5.02	100	5.04	101	5.09	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842282-24						
Date Analyzed :				06/18/24 15:00						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.521	104				
Beryllium				0.5000	0.513	103				
Potassium				5.0000	5.04	101				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842603-1									
Date Analyzed	:	06/18/24 10:57									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5190	104							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842603-3			R1842603-6			R1842603-8		R1842603-10	
Date Analyzed :	06/18/24 11:12			06/18/24 13:49			06/18/24 15:08		06/18/24 15:42	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5150	103	0.5000	0.512	102	0.518	104	0.514	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842603-12			R1842603-14		R1842603-16	
Date Analyzed :				06/18/24 17:03			06/18/24 18:16		06/18/24 19:44	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.506	101	0.504	101	0.506	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842603-18			R1842603-20		R1842603-22	
Date Analyzed :				06/18/24 20:52			06/18/24 21:49		06/18/24 22:39	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.497	99	0.495	99	0.491	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842862-1			R1842862-4			R1842862-6		R1842862-8	
Date Analyzed:	06/19/24 06:20			06/19/24 08:06			06/19/24 09:16		06/19/24 10:07	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100	0.5000	0.503	101	0.493	99	0.493	99
Antimony	0.500	0.5000	100	0.5000	0.493	99	0.497	99	0.491	98
Arsenic	0.500	0.4850	97	0.5000	0.483	97	0.481	96	0.485	97
Barium	0.500	0.5020	100	0.5000	0.504	101	0.506	101	0.503	101
Beryllium	0.500	0.5090	102	0.5000	0.508	102	0.510	102	0.509	102
Cadmium	0.500	0.5100	102	0.5000	0.505	101	0.506	101	0.504	101
Calcium	0.500	0.4880	98	0.5000	0.489	98	0.492	98	0.495	99
Chromium	0.500	0.4990	100	0.5000	0.492	98	0.497	99	0.496	99
Cobalt	0.500	0.5130	103	0.5000	0.507	101	0.510	102	0.510	102
Copper	0.500	0.4940	99	0.5000	0.489	98	0.492	98	0.489	98
Iron	0.500	0.5050	101	0.5000	0.504	101	0.515	103	0.512	102
Lead	0.500	0.4980	100	0.5000	0.494	99	0.494	99	0.492	98
Magnesium	0.500	0.4960	99	0.5000	0.492	98	0.494	99	0.493	99
Manganese	0.500	0.4960	99	0.5000	0.497	99	0.498	100	0.500	100
Nickel	0.500	0.5120	102	0.5000	0.505	101	0.511	102	0.511	102
Potassium	5.00	5.2600	105	5.0000	5.36	107	5.33	107	5.41	108
Selenium	0.500	0.4950	99	0.5000	0.488	98	0.487	97	0.489	98
Silver	0.500	0.5070	101	0.5000	0.500	100	0.503	101	0.503	101
Sodium	10.0	10.2000	102	10.0000	10.2	102	10.4	104	10.5	105
Thallium	0.500	0.4950	99	0.5000	0.488	98	0.486	97	0.484	97
Vanadium	0.500	0.4990	100	0.5000	0.493	99	0.498	100	0.497	99
Zinc	0.500	0.5130	103	0.5000	0.505	101	0.512	102	0.512	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-10			R1842862-12		R1842862-14	
Date Analyzed :				06/19/24 11:15			06/19/24 12:14		06/19/24 13:22	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.485	97	0.481	96	0.484	97
Antimony				0.5000	0.490	98	0.477	95	0.486	97
Arsenic				0.5000	0.487	97	0.479	96	0.484	97
Barium				0.5000	0.497	99	0.493	99	0.492	98
Beryllium				0.5000	0.506	101	0.508	102	0.507	101
Cadmium				0.5000	0.504	101	0.491	98	0.498	100
Calcium				0.5000	0.498	100	0.495	99	0.499	100
Chromium				0.5000	0.496	99	0.484	97	0.490	98
Cobalt				0.5000	0.507	101	0.498	100	0.501	100
Copper				0.5000	0.490	98	0.474	95	0.484	97
Iron				0.5000	0.527	105	0.530	106	0.518	104
Lead				0.5000	0.493	99	0.485	97	0.488	98
Magnesium				0.5000	0.490	98	0.483	97	0.489	98
Manganese				0.5000	0.504	101	0.499	100	0.503	101
Nickel				0.5000	0.509	102	0.500	100	0.506	101
Potassium				5.0000	5.26	105	5.26	105	5.25	105
Selenium				0.5000	0.491	98	0.483	97	0.484	97
Silver				0.5000	0.502	100	0.488	98	0.495	99
Sodium				10.0000	10.6	106	10.6	106	10.6	106
Thallium				0.5000	0.494	99	0.478	96	0.487	97
Vanadium				0.5000	0.496	99	0.485	97	0.492	98
Zinc				0.5000	0.508	102	0.503	101	0.506	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842862-16			R1842862-18		R1842862-20	
Date Analyzed :				06/19/24 14:12			06/19/24 15:03		06/19/24 15:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.479	96	0.483	97	0.479	96
Antimony				0.5000	0.485	97	0.480	96	0.477	95
Arsenic				0.5000	0.482	96	0.479	96	0.478	96
Barium				0.5000	0.487	97	0.489	98	0.485	97
Beryllium				0.5000	0.505	101	0.504	101	0.502	100
Cadmium				0.5000	0.498	100	0.495	99	0.493	99
Calcium				0.5000	0.501	100	0.500	100	0.496	99
Chromium				0.5000	0.490	98	0.486	97	0.485	97
Cobalt				0.5000	0.500	100	0.496	99	0.493	99
Copper				0.5000	0.483	97	0.481	96	0.482	96
Iron				0.5000	0.527	105	0.524	105	0.514	103
Lead				0.5000	0.490	98	0.486	97	0.484	97
Magnesium				0.5000	0.487	97	0.483	97	0.480	96
Manganese				0.5000	0.503	101	0.502	100	0.499	100
Nickel				0.5000	0.504	101	0.500	100	0.497	99
Potassium				5.0000	5.17	103	5.22	104	5.30	106
Selenium				0.5000	0.482	96	0.484	97	0.479	96
Silver				0.5000	0.496	99	0.492	98	0.490	98
Sodium				10.0000	10.5	105	10.7	107	10.6	106
Thallium				0.5000	0.489	98	0.488	98	0.484	97
Vanadium				0.5000	0.491	98	0.488	98	0.487	97
Zinc				0.5000	0.503	101	0.498	100	0.497	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842124-2		R1842124-7		R1842124-9		R1842124-11		WG1935332-1	
Date Analyzed :	06/17/24 15:30		06/17/24 17:59		06/17/24 19:43		06/17/24 20:25		06/17/24 22:11	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00230	J	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842124-4		R1842124-13		R1842124-15		R1842124-17			
Date Analyzed :	06/17/24 15:38		06/17/24 21:06		06/17/24 22:45		06/17/24 23:14			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00823	J	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842259-2		R1842259-7		R1842259-9		R1842259-11		WG1935323-1	
Date Analyzed :	06/18/24 04:55		06/18/24 06:41		06/18/24 07:29		06/18/24 08:11		06/18/24 16:13	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00796	J	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00121	J	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00423	J	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842259-4		R1842259-13		R1842259-15		R1842259-17			
Date Analyzed :	06/18/24 05:02		06/18/24 09:13		06/18/24 09:59		06/18/24 10:42			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00738	J	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00158	J	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00368	J	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842259-25		R1842259-19		R1842259-21		R1842259-23			
Date Analyzed:	06/18/24 12:48		06/18/24 11:33		06/18/24 12:09		06/18/24 12:16			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00214	J	0.00203	J		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842259-27		R1842259-30		R1842259-32		R1842259-34			
Date Analyzed :	06/18/24 12:56		06/18/24 14:25		06/18/24 15:18		06/18/24 15:56			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842259-36		R1842259-38					
Date Analyzed :			06/18/24 16:52		06/18/24 18:09					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842282-2		R1842282-7		R1842282-9		R1842282-11		WG1935332-1	
Date Analyzed :	06/18/24 04:48		06/18/24 07:21		06/18/24 08:23		06/18/24 09:12		06/18/24 13:44	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842282-4		R1842282-13		R1842282-15		R1842282-17			
Date Analyzed :	06/18/24 04:56		06/18/24 10:09		06/18/24 11:03		06/18/24 11:59			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842282-19		R1842282-21		R1842282-23			
Date Analyzed :			06/18/24 13:00		06/18/24 13:38		06/18/24 14:20			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony			0.00710	U	0.00710	U	0.00710	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Potassium			0.237	U	0.237	U	0.237	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842282-25							
Date Analyzed :			06/18/24 15:04							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony			0.00710	U						
Beryllium			0.000900	U						
Potassium			0.237	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842603-2		R1842603-7		R1842603-9		R1842603-11			
Date Analyzed :	06/18/24 11:03		06/18/24 13:55		06/18/24 15:14		06/18/24 15:48			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842603-4		R1842603-13		R1842603-15		R1842603-17			
Date Analyzed :	06/18/24 11:18		06/18/24 17:09		06/18/24 18:23		06/18/24 19:50			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842603-19		R1842603-21		R1842603-23			
Date Analyzed :			06/18/24 20:58		06/18/24 21:55		06/18/24 22:45			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony			0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842862-2		R1842862-5		R1842862-7		R1842862-9			
Date Analyzed :	06/19/24 06:24		06/19/24 08:10		06/19/24 09:20		06/19/24 10:11			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.0101	J	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-11		R1842862-13		R1842862-15			
Date Analyzed :			06/19/24 11:19		06/19/24 12:18		06/19/24 13:26			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842862-17		R1842862-19		R1842862-21			
Date Analyzed :			06/19/24 14:16		06/19/24 15:07		06/19/24 15:52			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.283	J	0.172	J		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842124-5							
Analysis Date :			06/17/24 15:48							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		526.	105						
Antimony			-0.0163							
Arsenic			-0.00466							
Barium			0.00231							
Cadmium			-0.00726							
Calcium	500		482.	96						
Chromium			0.00309							
Cobalt			-0.000550							
Copper			0.00257							
Iron	200		192.	96						
Lead			0.00436							
Magnesium	500		482.	96						
Manganese			-0.000604							
Nickel			0.000526							
Selenium			-0.0130							
Silver			0.000129							
Sodium			0.0112							
Thallium			0.00239							
Vanadium			0.00179							
Zinc			-0.00148							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842259-5				R1842259-28			
Analysis Date :			06/18/24 05:09				06/18/24 13:03			
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		536.	107			514.	103		
Antimony			-0.00880				-0.00853			
Arsenic			-0.00924				-0.00166			
Barium			0.00217				0.00203			
Beryllium			0.0000707				0.0000668			
Cadmium			-0.00700				-0.00692			
Calcium	500		490.	98			472.	94		
Chromium			0.00279				0.00295			
Cobalt			-0.00123				-0.00159			
Copper			0.00283				0.00295			
Iron	200		194.	97			189.	94		
Lead			0.00553				0.00427			
Magnesium	500		484.	97			478.	96		
Manganese			-0.000157				-0.000489			
Nickel			-0.000398				-0.000198			
Potassium			-0.0415				-0.0304			
Selenium			-0.0116				-0.0101			
Silver			0.0000832				0.000321			
Sodium			0.00423				0.0100			
Thallium			0.00300				0.00170			
Vanadium			0.00146				0.00170			
Zinc			-0.000208				-0.000926			

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842282-5							
Analysis Date :			06/18/24 05:39							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			-0.000452							
Beryllium			0.0000265							
Potassium			-0.00464							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842603-5							
Analysis Date :			06/18/24 11:30							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Antimony			0.0106							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1842862-3							
Analysis Date :			06/19/24 06:33							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	500		498.	100						
Antimony			0.000818							
Arsenic			-0.00132							
Barium			0.00181							
Beryllium			0.0000765							
Cadmium			-0.0000221							
Calcium	500		472.	94						
Chromium			-0.00114							
Cobalt			-0.000878							
Copper			-0.00305							
Iron	200		190.	95						
Lead			-0.00196							
Magnesium	500		479.	96						
Manganese			0.00208							
Nickel			-0.000712							
Potassium			0.0449							
Selenium			-0.00229							
Silver			-0.000626							
Sodium			0.0181							
Thallium			0.00305							
Vanadium			0.000709							
Zinc			0.000450							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935332-3	**MS Analysis Date**	: 06/17/24 22:28
Matrix Spike Dup	: WG1935332-4	**MSD Analysis Date**	: 06/17/24 22:31

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	1.93	96	2	1.98	99	3	75-125	20
Antimony, Total	ND	0.5	0.403	81	0.5	0.419	84	4	75-125	20
Arsenic, Total	ND	0.12	0.116	97	0.12	0.120	100	3	75-125	20
Barium, Total	0.0165	2	1.98	98	2	2.03	101	2	75-125	20
Cadmium, Total	ND	0.053	0.0518	98	0.053	0.0545	103	5	75-125	20
Calcium, Total	19.8	10	29.9	101	10	30.6	108	2	75-125	20
Chromium, Total	ND	0.2	0.187	94	0.2	0.196	98	5	75-125	20
Cobalt, Total	ND	0.5	0.472	94	0.5	0.494	99	5	75-125	20
Copper, Total	ND	0.25	0.239	96	0.25	0.249	100	4	75-125	20
Iron, Total	0.0248J	1	0.990	99	1	1.01	101	2	75-125	20
Lead, Total	ND	0.53	0.513	97	0.53	0.533	100	4	75-125	20
Magnesium, Total	4.96	10	14.4	94	10	15.0	100	4	75-125	20
Manganese, Total	0.0042J	0.5	0.494	99	0.5	0.506	101	2	75-125	20
Nickel, Total	ND	0.5	0.473	95	0.5	0.495	99	5	75-125	20
Selenium, Total	ND	0.12	0.119	99	0.12	0.125	104	5	75-125	20
Silver, Total	ND	0.05	0.0485	97	0.05	0.0502	100	3	75-125	20
Sodium, Total	4.02	10	14.2	102	10	14.5	105	2	75-125	20
Thallium, Total	ND	0.12	0.117	98	0.12	0.120	100	3	75-125	20
Vanadium, Total	ND	0.5	0.476	95	0.5	0.498	100	5	75-125	20
Zinc, Total	ND	0.5	0.478	96	0.5	0.502	100	5	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04		
Matrix Spike	: WG1935332-7	**MS Analysis Date**	: 06/17/24 22:56
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.0445J	2	1.96	98					75-125	20
Antimony, Total	ND	0.5	0.449	90					75-125	20
Arsenic, Total	0.0023J	0.12	0.122	102					75-125	20
Barium, Total	0.0226	2	1.99	98					75-125	20
Cadmium, Total	ND	0.053	0.0531	100					75-125	20
Calcium, Total	10.3	10	20.2	99					75-125	20
Chromium, Total	ND	0.2	0.192	96					75-125	20
Cobalt, Total	0.0029J	0.5	0.488	98					75-125	20
Copper, Total	ND	0.25	0.244	98					75-125	20
Iron, Total	2.80	1	3.81	101					75-125	20
Lead, Total	ND	0.53	0.527	99					75-125	20
Magnesium, Total	4.49	10	14.3	98					75-125	20
Manganese, Total	0.0398	0.5	0.532	98					75-125	20
Nickel, Total	0.0033J	0.5	0.490	98					75-125	20
Selenium, Total	ND	0.12	0.124	103					75-125	20
Silver, Total	ND	0.05	0.0493	99					75-125	20
Sodium, Total	8.25	10	18.5	102					75-125	20
Thallium, Total	ND	0.12	0.119	99					75-125	20
Vanadium, Total	ND	0.5	0.485	97					75-125	20
Zinc, Total	0.0056	0.5	0.496	98					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935323-3	**MS Analysis Date**	: 06/18/24 16:34
Matrix Spike Dup	: WG1935323-4	**MSD Analysis Date**	: 06/18/24 16:38

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.88	94	2	1.83	92	3	75-125	20
Antimony, Dissolved	ND	0.5	0.412	82	0.5	0.404	81	2	75-125	20
Arsenic, Dissolved	ND	0.12	0.115	96	0.12	0.115	96	0	75-125	20
Barium, Dissolved	0.0154	2	1.91	95	2	1.85	92	3	75-125	20
Beryllium, Dissolved	ND	0.05	0.0491	98	0.05	0.0476	95	3	75-125	20
Cadmium, Dissolved	ND	0.053	0.0516	97	0.053	0.0503	95	3	75-125	20
Calcium, Dissolved	19.4	10	29.0	96	10	28.6	92	1	75-125	20
Chromium, Dissolved	ND	0.2	0.191	96	0.2	0.184	92	4	75-125	20
Cobalt, Dissolved	ND	0.5	0.479	96	0.5	0.463	93	3	75-125	20
Copper, Dissolved	ND	0.25	0.246	98	0.25	0.237	95	4	75-125	20
Iron, Dissolved	ND	1	1.00	100	1	0.941	94	6	75-125	20
Lead, Dissolved	ND	0.53	0.518	98	0.53	0.512	97	1	75-125	20
Magnesium, Dissolved	4.90	10	14.6	97	10	14.4	95	1	75-125	20
Manganese, Dissolved	0.0046J	0.5	0.481	96	0.5	0.474	95	1	75-125	20
Nickel, Dissolved	ND	0.5	0.478	96	0.5	0.461	92	4	75-125	20
Potassium, Dissolved	0.862J	10	10.8	108	10	10.7	107	1	75-125	20
Selenium, Dissolved	ND	0.12	0.121	101	0.12	0.117	98	3	75-125	20
Silver, Dissolved	ND	0.05	0.0491	98	0.05	0.0477	95	3	75-125	20
Sodium, Dissolved	4.01	10	13.8	98	10	13.7	97	1	75-125	20
Thallium, Dissolved	ND	0.12	0.118	98	0.12	0.116	97	2	75-125	20
Vanadium, Dissolved	ND	0.5	0.487	97	0.5	0.469	94	4	75-125	20
Zinc, Dissolved	ND	0.5	0.489	98	0.5	0.473	95	3	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935332-3	**MS Analysis Date**	: 06/18/24 13:57
Matrix Spike Dup	: WG1935332-4	**MSD Analysis Date**	: 06/18/24 14:00

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Beryllium, Total	ND	0.05	0.0502	100	0.05	0.0516	103	3	75-125	20
Potassium, Total	0.923J	10	10.9	109	10	11.2	112	3	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04		
Matrix Spike	: WG1935332-7	**MS Analysis Date**	: 06/18/24 14:44
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Beryllium, Total	ND	0.05	0.0512	102					75-125	20
Potassium, Total	0.927J	10	11.2	112					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04	**Analysis Date**	: 06/17/24 22:53
Dup Sample ID	: WG1935332-8	**DUP Analysis Date**	: 06/17/24 23:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Total	0.0445J	ND	NC	20
Antimony, Total	ND	ND	NC	20
Arsenic, Total	0.0023J	0.0024J	NC	20
Barium, Total	0.0226	0.0238	5	20
Cadmium, Total	ND	ND	NC	20
Calcium, Total	10.3	10.7	4	20
Chromium, Total	ND	ND	NC	20
Cobalt, Total	0.0029J	0.0031J	NC	20
Copper, Total	ND	ND	NC	20
Iron, Total	2.80	2.92	4	20
Lead, Total	ND	ND	NC	20
Magnesium, Total	4.49	4.52	1	20
Manganese, Total	0.0398	0.0413	4	20
Nickel, Total	0.0033J	ND	NC	20
Selenium, Total	ND	ND	NC	20
Silver, Total	ND	ND	NC	20
Sodium, Total	8.25	8.62	4	20
Thallium, Total	ND	ND	NC	20
Vanadium, Total	ND	ND	NC	20
Zinc, Total	0.0056	0.0068	19	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04	**Analysis Date**	: 06/18/24 14:40
Dup Sample ID	: WG1935332-8	**DUP Analysis Date**	: 06/18/24 14:48

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Beryllium, Total	ND	ND	NC	20
Potassium, Total	0.927J	0.981J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935332-2	**LCS Analysis Date**	: 06/17/24 22:21
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	1.91	96.					85-115	20
Arsenic, Total	0.120	0.115	96.					85-115	20
Barium, Total	2.00	1.93	96.					85-115	20
Cadmium, Total	0.0530	0.0529	100.					85-115	20
Calcium, Total	10.0	9.87	99.					85-115	20
Chromium, Total	0.200	0.192	96.					85-115	20
Cobalt, Total	0.500	0.487	97.					85-115	20
Copper, Total	0.250	0.245	98.					85-115	20
Iron, Total	1.00	0.977	98.					85-115	20
Lead, Total	0.530	0.525	99.					85-115	20
Magnesium, Total	10.0	9.88	99.					85-115	20
Manganese, Total	0.500	0.483	97.					85-115	20
Nickel, Total	0.500	0.489	98.					85-115	20
Selenium, Total	0.120	0.118	98.					85-115	20
Silver, Total	0.0500	0.0495	99.					85-115	20
Sodium, Total	10.0	10.1	101.					85-115	20
Thallium, Total	0.120	0.118	98.					85-115	20
Vanadium, Total	0.500	0.484	97.					85-115	20
Zinc, Total	0.500	0.488	98.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935323-2	**LCS Analysis Date**	: 06/18/24 16:17
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Aluminum, Dissolved	2.00	1.84	92.					85-115	20
Arsenic, Dissolved	0.120	0.111	92.					85-115	20
Barium, Dissolved	2.00	1.86	93.					85-115	20
Beryllium, Dissolved	0.0500	0.0476	95.					85-115	20
Cadmium, Dissolved	0.0530	0.0513	97.					85-115	20
Calcium, Dissolved	10.0	9.50	95.					85-115	20
Chromium, Dissolved	0.200	0.186	93.					85-115	20
Cobalt, Dissolved	0.500	0.476	95.					85-115	20
Copper, Dissolved	0.250	0.239	96.					85-115	20
Iron, Dissolved	1.00	0.948	95.					85-115	20
Lead, Dissolved	0.530	0.504	95.					85-115	20
Magnesium, Dissolved	10.0	9.58	96.					85-115	20
Manganese, Dissolved	0.500	0.468	94.					85-115	20
Nickel, Dissolved	0.500	0.475	95.					85-115	20
Potassium, Dissolved	10.0	9.81	98.					85-115	20
Selenium, Dissolved	0.120	0.114	95.					85-115	20
Silver, Dissolved	0.0500	0.0488	98.					85-115	20
Sodium, Dissolved	10.0	9.76	98.					85-115	20
Thallium, Dissolved	0.120	0.114	95.					85-115	20
Vanadium, Dissolved	0.500	0.472	94.					85-115	20
Zinc, Dissolved	0.500	0.479	96.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935332-2	**LCS Analysis Date**	: 06/18/24 13:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Antimony, Total	0.500	0.437	87.					85-115	20
Beryllium, Total	0.0500	0.0509	102.					85-115	20
Potassium, Total	10.0	10.3	103.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935323-2	**LCS Analysis Date**	: 06/18/24 22:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Antimony, Dissolved	**0.500**	**0.474**	**95.**					**85-115**	**20**

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/17/24 22:24
Serial Dilution ID	: WG1935332-6	**Analysis Date**	: 06/17/24 22:38

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	19.8	20.6	4	20
Magnesium, Total	4.96	5.08	2	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04	**Analysis Date**	: 06/17/24 22:53
Serial Dilution ID	: WG1935332-10	**Analysis Date**	: 06/17/24 23:07

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	10.3	10.2	1	20
Iron, Total	2.80	2.88	3	20
Magnesium, Total	4.49	4.51	0	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
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ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-03	06/17/24 14:33	-	50
L2433035-04	06/17/24 14:33	-	50
WG1935332-1	06/17/24 14:33	-	50
WG1935332-2	06/17/24 14:33	-	50
WG1935332-3	06/17/24 14:33	-	50
WG1935332-4	06/17/24 14:33	-	50
WG1935332-5	06/17/24 14:33	-	50
WG1935332-6	06/17/24 14:33	-	50
WG1935332-7	06/17/24 14:33	-	50
WG1935332-8	06/17/24 14:33	-	50
WG1935332-9	06/17/24 14:33	-	50
WG1935332-10	06/17/24 14:33	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-01	06/17/24 15:11	-	50
L2433035-02	06/17/24 15:11	-	50
L2433035-03	06/17/24 15:11	-	50
L2433035-04	06/17/24 15:11	-	50
L2433035-05	06/17/24 15:11	-	50
L2433035-06	06/17/24 15:11	-	50
L2433035-07	06/17/24 15:11	-	50
L2433035-08	06/17/24 15:11	-	50
L2433035-09	06/17/24 15:11	-	50
L2433035-10	06/17/24 15:11	-	50
WG1935323-1	06/17/24 15:11	-	50
WG1935323-2	06/17/24 15:11	-	50
WG1935323-3	06/17/24 15:11	-	50
WG1935323-4	06/17/24 15:11	-	50
WG1935323-5	06/17/24 15:11	-	50
WG1935323-6	06/17/24 15:11	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-03	06/17/24 14:33	-	50
L2433035-04	06/17/24 14:33	-	50
WG1935332-1	06/17/24 14:33	-	50
WG1935332-2	06/17/24 14:33	-	50
WG1935332-3	06/17/24 14:33	-	50
WG1935332-4	06/17/24 14:33	-	50
WG1935332-5	06/17/24 14:33	-	50
WG1935332-6	06/17/24 14:33	-	50
WG1935332-7	06/17/24 14:33	-	50
WG1935332-8	06/17/24 14:33	-	50
WG1935332-9	06/17/24 14:33	-	50
WG1935332-10	06/17/24 14:33	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1935323-2	06/17/24 15:11	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-01	06/17/24 14:33	-	50
L2433035-02	06/17/24 14:33	-	50
L2433035-05	06/17/24 14:33	-	50
L2433035-06	06/17/24 14:33	-	50
L2433035-07	06/17/24 14:33	-	50
L2433035-08	06/17/24 14:33	-	50
L2433035-09	06/17/24 14:33	-	50
L2433035-10	06/17/24 14:33	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 15:26	**End Date**	: 06/17/24 23:14

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842124-1 ICV	1	15:26:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-2 ICB	1	15:30:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-3 ICV	1	15:34:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-4 ICB	1	15:38:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-5 ICSA	1	15:48:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-6 CCV	1	17:55:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-7 CCB	1	17:59:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-8 CCV	1	19:40:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-9 CCB	1	19:43:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-10 CCV	1	20:21:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-11 CCB	1	20:25:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-12 CCV	1	21:02:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-13 CCB	1	21:06:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-1 BLANK	1	22:11:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-2 LCS	1	22:21:25	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-03	1	22:24:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-3 MS	1	22:28:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-4 MSD	1	22:31:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-5 PS	1	22:35:25																				
WG1935332-6 SERDIL	5	22:38:54						X						X								
R1842124-14 CCV	1	22:42:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-15 CCB	1	22:45:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-04	1	22:53:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-7 MS	1	22:56:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-8 DUP	1	23:00:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935332-9 PS	1	23:03:31																				
WG1935332-10 SERDIL	5	23:07:02						X				X		X								

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 06/17/24 15:26	**End Date**	: 06/17/24 23:14

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842124-16 CCV	1	23:10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842124-17 CCB	1	23:14:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 06/18/24 04:52	**End Date**	: 06/18/24 18:09

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1842259-1 ICV	1	04:52:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-2 ICB	1	04:55:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-3 ICV	1	04:58:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-4 ICB	1	05:02:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-5 ICSA	1	05:09:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-6 CCV	1	06:38:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-7 CCB	1	06:41:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-8 CCV	1	07:26:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-9 CCB	1	07:29:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-10 CCV	1	08:08:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-11 CCB	1	08:11:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-12 CCV	1	09:10:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-13 CCB	1	09:13:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-14 CCV	1	09:55:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-15 CCB	1	09:59:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-16 CCV	1	10:39:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-17 CCB	1	10:42:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-18 CCV	1	11:30:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-19 CCB	1	11:33:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-20 CCV	1	12:06:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-21 CCB	1	12:09:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-22 CCV	1	12:13:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-23 CCB	1	12:16:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-24 ICV	1	12:45:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-25 ICB	1	12:48:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-26 ICV	1	12:53:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-27 ICB	1	12:56:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 06/18/24 04:52	**End Date**	: 06/18/24 18:09

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1842259-28 ICSA	1	13:03:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-29 CCV	1	14:21:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-30 CCB	1	14:25:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-31 CCV	1	15:14:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-32 CCB	1	15:18:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-33 CCV	1	15:53:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-34 CCB	1	15:56:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935323-1 BLANK	1	16:13:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935323-2 LCS	1	16:17:28	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-01	1	16:20:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-02	1	16:24:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-04	1	16:27:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-03	1	16:31:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935323-3 MS	1	16:34:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935323-4 MSD	1	16:38:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1935323-5 PS	1	16:41:49																						
WG1935323-6 SERDIL	5	16:45:20																						
R1842259-35 CCV	1	16:48:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-36 CCB	1	16:52:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-05	1	16:57:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-06	1	17:00:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-07	1	17:04:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-08	1	17:07:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-09	1	17:11:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-10	1	17:14:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-37 CCV	1	18:06:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842259-38 CCB	1	18:09:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/18/24 04:44	**End Date**	: 06/18/24 15:04

Sample Number	Dilution Factor	Analysis Time	Antimony, Total	Beryllium, Total	Potassium, Total
R1842282-1 ICV	1	04:44:41	X	X	X
R1842282-2 ICB	1	04:48:38	X	X	X
R1842282-3 ICV	1	04:52:35	X	X	X
R1842282-4 ICB	1	04:56:35	X	X	X
R1842282-5 ICSA	1	05:39:34	X	X	X
R1842282-6 CCV	1	07:16:56	X	X	X
R1842282-7 CCB	1	07:21:06	X	X	X
R1842282-8 CCV	1	08:19:09	X	X	X
R1842282-9 CCB	1	08:23:05	X	X	X
R1842282-10 CCV	1	09:08:44	X	X	X
R1842282-11 CCB	1	09:12:40	X	X	X
R1842282-12 CCV	1	10:05:21	X	X	X
R1842282-13 CCB	1	10:09:17	X	X	X
R1842282-14 CCV	1	10:59:45	X	X	X
R1842282-15 CCB	1	11:03:42	X	X	X
R1842282-16 CCV	1	11:55:49	X	X	X
R1842282-17 CCB	1	11:59:46	X	X	X
R1842282-18 CCV	1	12:56:04	X	X	X
R1842282-19 CCB	1	13:00:02	X	X	X
R1842282-20 CCV	1	13:34:42	X	X	X
R1842282-21 CCB	1	13:38:40	X	X	X
WG1935332-1 BLANK	1	13:44:45		X	X
WG1935332-2 LCS	1	13:49:00	X	X	X
L2433035-03	1	13:53:03		X	X
WG1935332-3 MS	1	13:57:00		X	X
WG1935332-4 MSD	1	14:00:58		X	X
WG1935332-5 PS	1	14:05:02			

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/18/24 04:44	**End Date**	: 06/18/24 15:04

Sample Number	Dilution Factor	Analysis Time	Antimony, Total	Beryllium, Total	Potassium, Total
WG1935332-6 SERDIL	5	14:09:00			
R1842282-22 CCV	1	14:16:55	X	X	X
R1842282-23 CCB	1	14:20:53	X	X	X
L2433035-04	1	14:40:16		X	X
WG1935332-7 MS	1	14:44:21		X	X
WG1935332-8 DUP	1	14:48:19		X	X
WG1935332-9 PS	1	14:52:18			
WG1935332-10 SERDIL	5	14:56:22			
R1842282-24 CCV	1	15:00:30	X	X	X
R1842282-25 CCB	1	15:04:30	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 06/18/24 10:57	**End Date**	: 06/18/24 22:45

Sample Number	Dilution Factor	Analysis Time	Antimony, Dissolved
R1842603-1 ICV	1	10:57:25	X
R1842603-2 ICB	1	11:03:29	X
R1842603-3 ICV	1	11:12:16	X
R1842603-4 ICB	1	11:18:20	X
R1842603-5 ICSA	1	11:30:58	X
R1842603-6 CCV	1	13:49:18	X
R1842603-7 CCB	1	13:55:22	X
R1842603-8 CCV	1	15:08:17	X
R1842603-9 CCB	1	15:14:21	X
R1842603-10 CCV	1	15:42:21	X
R1842603-11 CCB	1	15:48:25	X
R1842603-12 CCV	1	17:03:01	X
R1842603-13 CCB	1	17:09:05	X
R1842603-14 CCV	1	18:16:57	X
R1842603-15 CCB	1	18:23:01	X
R1842603-16 CCV	1	19:44:34	X
R1842603-17 CCB	1	19:50:38	X
R1842603-18 CCV	1	20:52:44	X
R1842603-19 CCB	1	20:58:49	X
R1842603-20 CCV	1	21:49:25	X
R1842603-21 CCB	1	21:55:29	X
WG1935323-2 LCS	1	22:12:33	X
R1842603-22 CCV	1	22:39:52	X
R1842603-23 CCB	1	22:45:57	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 06:20	**End Date**	: 06/19/24 15:52

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842862-1 ICV	1	06:20:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-2 ICB	1	06:24:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-3 ICSA	1	06:33:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-4 CCV	1	08:06:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-5 CCB	1	08:10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-6 CCV	1	09:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-7 CCB	1	09:20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-8 CCV	1	10:07:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-9 CCB	1	10:11:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-10 CCV	1	11:15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-11 CCB	1	11:19:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-12 CCV	1	12:14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-13 CCB	1	12:18:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-14 CCV	1	13:22:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-15 CCB	1	13:26:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-16 CCV	1	14:12:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-17 CCB	1	14:16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-01	1	14:47:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-02	1	14:51:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-05	1	14:55:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-06	1	14:59:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-18 CCV	1	15:03:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-19 CCB	1	15:07:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-07	1	15:20:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-08	1	15:24:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-09	1	15:28:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2433035-10	1	15:32:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 06/19/24 06:20	**End Date**	: 06/19/24 15:52

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1842862-20 CCV	1	15:48:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1842862-21 CCB	1	15:52:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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File: PM2960-2
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METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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

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File: PM2962-1
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METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

LabBook: WG1935383_06172024T9.imexp

Sample:	Blank CEY Trace9
Analysis started at:	6/17/2024 2:01:54 PM
Rack	0
Vial	1
Comment	<Comment>

LabBook: WG1935383_06172024T9.imexp

Sample:	ICAL
Analysis started at:	6/17/2024 2:05:47 PM
Rack	0
Vial	2
Comment	<Comment>

LabBook: WG1935383_06172024T9.imexp

Sample:	ICV
Analysis started at:	6/17/2024 2:11:58 PM
Rack	0
Vial	3
Comment	<Comment>

LabBook: WG1935383_06172024T9.imexp

Sample:	ICB
Analysis started at:	6/17/2024 2:15:29 PM
Rack	0
Vial	4
Comment	<Comment>

LabBook: WG1935383_06172024T9.imexp

Sample:	IS Check
Analysis started at:	6/17/2024 2:29:26 PM
Rack	0
Vial	4
Comment	Post Align

LabBook: WG1935383_06172024T9.imexp

Sample:	ICV Peak Check
Analysis started at:	6/17/2024 2:48:43 PM
Rack	0
Vial	3
Comment	Post Align

LabBook: WG1935383_06172024T9.imexp

Sample:	ICV Peak Check
Analysis started at:	6/17/2024 2:58:01 PM
Rack	0
Vial	3
Comment	Post Align

LabBook: WG1935383_06172024T9.imexp

Sample:	ICV Peak Check
Analysis started at:	6/17/2024 3:12:44 PM
Rack	0
Vial	3
Comment	Post Align

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: Blank CEY Trace9
Analysis started at: 6/17/2024 3:19:32 PM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	2.0 %	-2.3 %	0.5 %	0.1 %	-1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.5 %	0.3 %	-0.1 %	-0.1 %	1.2 %	-0.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-0.9 %	0.4 %	0.2 %	0.5 %	-1.0 %	-1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	0.0 %	0.1 %	-0.4 %	-0.3 %	0.8 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.1 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICAL
Analysis started at: 6/17/2024 3:23:25 PM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9985 ppm	24.9876 ppm	0.9939 ppm	0.9953 ppm	0.9982 ppm	0.9970 ppm	10.0088 ppm
Concentration per Run 2	1.0039 ppm	25.1343 ppm	1.0015 ppm	1.0104 ppm	1.0023 ppm	1.0057 ppm	10.0691 ppm
Concentration per Run 3	0.9975 ppm	24.8781 ppm	1.0047 ppm	0.9943 ppm	0.9995 ppm	0.9973 ppm	9.9220 ppm
Concentration RSD	0.3 %	0.5 %	0.6 %	0.9 %	0.2 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0047 ppm	1.0042 ppm	1.0003 ppm	0.9953 ppm	24.9024 ppm	35.0013 ppm	0.9989 ppm
Concentration per Run 2	1.0079 ppm	1.0057 ppm	1.0052 ppm	1.0086 ppm	25.1645 ppm	35.0534 ppm	1.0044 ppm
Concentration per Run 3	0.9874 ppm	0.9901 ppm	0.9946 ppm	0.9961 ppm	24.9331 ppm	34.9453 ppm	0.9967 ppm
Concentration RSD	1.1 %	0.9 %	0.5 %	0.7 %	0.6 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0346 ppm	0.9973 ppm	0.9875 ppm	24.9968 ppm	1.0006 ppm	0.9978 ppm	0.9933 ppm
Concentration per Run 2	10.0351 ppm	1.0096 ppm	1.0100 ppm	25.1202 ppm	1.0074 ppm	1.0042 ppm	1.0087 ppm
Concentration per Run 3	9.9303 ppm	0.9931 ppm	1.0025 ppm	24.8829 ppm	0.9920 ppm	0.9979 ppm	0.9979 ppm
Concentration RSD	0.6 %	0.9 %	1.1 %	0.5 %	0.8 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0006 ppm	9.9600 ppm	0.9975 ppm	1.0014 ppm	1.0025 ppm	0.9994 ppm	1.0036 ppm
Concentration per Run 2	0.9974 ppm	10.1319 ppm	1.0112 ppm	1.0024 ppm	1.0013 ppm	1.0026 ppm	1.0043 ppm
Concentration per Run 3	1.0021 ppm	9.9081 ppm	0.9914 ppm	0.9962 ppm	0.9962 ppm	0.9980 ppm	0.9921 ppm
Concentration RSD	0.2 %	1.2 %	1.0 %	0.3 %	0.3 %	0.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	101.8589 %	103.5879 %	98.5702 %	100.0917 %	102.2510 %	101.4899 %
Concentration per Run 1	1.0007 ppm	101.3573 %	103.3905 %	98.3177 %	99.7121 %	102.4274 %	101.0825 %
Concentration per Run 2	1.0083 ppm	101.4146 %	102.4401 %	98.5565 %	99.7192 %	100.9429 %	101.6433 %
Concentration per Run 3	0.9910 ppm	102.8047 %	104.9330 %	98.8365 %	100.8436 %	103.3826 %	101.7439 %
Concentration RSD	0.9 %	0.8 %	1.2 %	0.3 %	0.7 %	1.2 %	0.4 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICV
Analysis started at: 6/17/2024 3:26:53 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5113 ppm	0.5055 ppm	0.4829 ppm	0.4996 ppm	0.5154 ppm	0.5281 ppm	0.4982 ppm
Concentration per Run 1	0.5168 ppm	0.5018 ppm	0.4794 ppm	0.5061 ppm	0.5130 ppm	0.5267 ppm	0.4979 ppm
Concentration per Run 2	0.5127 ppm	0.5011 ppm	0.4829 ppm	0.4989 ppm	0.5144 ppm	0.5274 ppm	0.4954 ppm
Concentration per Run 3	0.5044 ppm	0.5138 ppm	0.4862 ppm	0.4937 ppm	0.5187 ppm	0.5301 ppm	0.5014 ppm
Recovery Percentage 1	102.263 %	101.108 %	96.573 %	99.921 %	103.079 %	105.611 %	99.644 %
Concentration RSD	1.2 %	1.4 %	0.7 %	1.2 %	0.6 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5037 ppm	0.5167 ppm	0.4958 ppm	0.5035 ppm	0.5268 ppm	5.3323 ppm	0.6408 ppm
Concentration per Run 1	0.5093 ppm	0.5232 ppm	0.5006 ppm	0.5082 ppm	0.5262 ppm	5.3457 ppm	0.6389 ppm
Concentration per Run 2	0.5024 ppm	0.5149 ppm	0.4975 ppm	0.5039 ppm	0.5265 ppm	5.3156 ppm	0.6424 ppm
Concentration per Run 3	0.4996 ppm	0.5120 ppm	0.4893 ppm	0.4983 ppm	0.5278 ppm	5.3357 ppm	0.6410 ppm
Recovery Percentage 1	100.750 %	103.335 %	99.159 %	100.692 %	105.364 %	106.646 %	128.157 %
Concentration RSD	1.0 %	1.1 %	1.2 %	1.0 %	0.2 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4944 ppm	0.5032 ppm	0.5045 ppm	10.5398 ppm	0.5114 ppm	0.5029 ppm	0.5231 ppm
Concentration per Run 1	0.5021 ppm	0.5035 ppm	0.5075 ppm	10.5354 ppm	0.5165 ppm	0.4993 ppm	0.5279 ppm
Concentration per Run 2	0.4916 ppm	0.5017 ppm	0.5052 ppm	10.4196 ppm	0.5108 ppm	0.5054 ppm	0.5234 ppm
Concentration per Run 3	0.4895 ppm	0.5044 ppm	0.5007 ppm	10.6644 ppm	0.5069 ppm	0.5041 ppm	0.5179 ppm
Recovery Percentage 1	98.882 %	100.646 %	100.892 %	105.398 %	102.284 %	100.584 %	104.612 %
Concentration RSD	1.4 %	0.3 %	0.7 %	1.2 %	0.9 %	0.6 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4964 ppm	5.6967 ppm	0.5151 ppm	0.5063 ppm	0.5063 ppm	0.5053 ppm	0.4957 ppm
Concentration per Run 1	0.4941 ppm	5.7481 ppm	0.5196 ppm	0.5050 ppm	0.5117 ppm	0.5019 ppm	0.4999 ppm
Concentration per Run 2	0.5008 ppm	5.7086 ppm	0.5158 ppm	0.5037 ppm	0.5067 ppm	0.5066 ppm	0.4963 ppm
Concentration per Run 3	0.4943 ppm	5.6334 ppm	0.5098 ppm	0.5101 ppm	0.5005 ppm	0.5075 ppm	0.4907 ppm
Recovery Percentage 1	99.279 %	108.509 %	103.013 %	101.253 %	101.259 %	101.064 %	99.133 %
Concentration RSD	0.8 %	1.0 %	1.0 %	0.7 %	1.1 %	0.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5078 ppm	103.4327 %	100.0577 %	102.6533 %	102.3531 %	99.4841 %	102.8472 %
Concentration per Run 1	0.5121 ppm	102.5326 %	99.6924 %	103.4787 %	101.2520 %	99.4895 %	104.1265 %
Concentration per Run 2	0.5085 ppm	103.6826 %	100.5461 %	102.6973 %	102.7618 %	99.7829 %	102.9109 %
Concentration per Run 3	0.5028 ppm	104.0830 %	99.9347 %	101.7838 %	103.0456 %	99.1797 %	101.5040 %
Recovery Percentage 1	101.562 %						
Concentration RSD	0.9 %	0.8 %	0.4 %	0.8 %	0.9 %	0.3 %	1.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICB
Analysis started at: 6/17/2024 3:30:21 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0074 ppm	0.0023 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 1	0.0002 ppm	0.0039 ppm	0.0016 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	0.0002 ppm	0.0054 ppm	0.0038 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 3	-0.0001 ppm	0.0128 ppm	0.0015 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0086 ppm
Recovery Percentage 1	1.301 %	7.361 %	45.919 %	-0.478 %	0.929 %	0.363 %	6.922 %
Concentration RSD	185.2 %	64.3 %	55.5 %	880.5 %	57.9 %	231.3 %	28.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0029 ppm	0.0318 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0006 ppm	0.0003 ppm	0.0031 ppm	0.0329 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0007 ppm	0.0027 ppm	0.0309 ppm	0.0016 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0030 ppm	0.0317 ppm	0.0012 ppm
Recovery Percentage 1	0.000 %	0.269 %	-0.439 %	5.074 %	5.832 %	1.274 %	30.130 %
Concentration RSD	896,249.1 %	995.5 %	1,049.2 %	37.2 %	7.6 %	3.1 %	16.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0002 ppm	0.0018 ppm	0.0027 ppm	0.0000 ppm	0.0007 ppm	0.0023 ppm
Concentration per Run 1	0.0015 ppm	0.0004 ppm	0.0023 ppm	0.0029 ppm	-0.0011 ppm	-0.0002 ppm	0.0044 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	0.0020 ppm	0.0032 ppm	0.0010 ppm	0.0019 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0019 ppm	0.0000 ppm	0.0003 ppm	0.0031 ppm
Recovery Percentage 1	1.194 %	1.678 %	3.577 %	0.133 %	-0.041 %	6.823 %	4.549 %
Concentration RSD	107.1 %	131.9 %	34.7 %	23.8 %	10,384.6 %	162.8 %	118.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.0049 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0036 ppm	0.0049 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0049 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0023 ppm	0.0048 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	19.691 %	0.974 %	-0.196 %	-0.348 %	-0.736 %	-0.426 %	-0.517 %
Concentration RSD	91.2 %	1.5 %	410.7 %	163.8 %	238.4 %	1,304.6 %	368.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	101.2641 %	98.9855 %	102.7762 %	101.9489 %	99.5104 %	103.0538 %
Concentration per Run 1	-0.0001 ppm	100.4735 %	99.0691 %	103.4407 %	101.3231 %	99.9331 %	104.0514 %
Concentration per Run 2	0.0001 ppm	101.6857 %	99.9581 %	102.3772 %	102.3446 %	100.4092 %	102.6614 %
Concentration per Run 3	-0.0002 ppm	101.6331 %	97.9294 %	102.5107 %	102.1790 %	98.1890 %	102.4486 %
Recovery Percentage 1	-1.414 %						
Concentration RSD	197.3 %	0.7 %	1.0 %	0.6 %	0.5 %	1.2 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICV
Analysis started at: 6/17/2024 3:34:32 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5224 ppm	0.5221 ppm	0.4927 ppm	0.5080 ppm	0.5256 ppm	0.5347 ppm	0.5163 ppm
Concentration per Run 1	0.5204 ppm	0.5156 ppm	0.4947 ppm	0.5066 ppm	0.5256 ppm	0.5364 ppm	0.5191 ppm
Concentration per Run 2	0.5244 ppm	0.5225 ppm	0.4922 ppm	0.5089 ppm	0.5264 ppm	0.5337 ppm	0.5206 ppm
Concentration per Run 3	0.5225 ppm	0.5280 ppm	0.4913 ppm	0.5083 ppm	0.5248 ppm	0.5341 ppm	0.5093 ppm
Recovery Percentage 1	104.487 %	104.412 %	98.546 %	101.592 %	105.122 %	106.940 %	103.268 %
Concentration RSD	0.4 %	1.2 %	0.4 %	0.2 %	0.1 %	0.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5101 ppm	0.5217 ppm	0.5028 ppm	0.5098 ppm	0.5345 ppm	5.3877 ppm	0.5266 ppm
Concentration per Run 1	0.5108 ppm	0.5216 ppm	0.5011 ppm	0.5066 ppm	0.5362 ppm	5.3926 ppm	0.5257 ppm
Concentration per Run 2	0.5113 ppm	0.5215 ppm	0.5058 ppm	0.5108 ppm	0.5383 ppm	5.3965 ppm	0.5276 ppm
Concentration per Run 3	0.5081 ppm	0.5221 ppm	0.5016 ppm	0.5120 ppm	0.5290 ppm	5.3739 ppm	0.5266 ppm
Recovery Percentage 1	102.012 %	104.341 %	100.565 %	101.963 %	106.894 %	107.753 %	105.322 %
Concentration RSD	0.3 %	0.1 %	0.5 %	0.6 %	0.9 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4993 ppm	0.5082 ppm	0.5098 ppm	10.3853 ppm	0.5187 ppm	0.5122 ppm	0.5294 ppm
Concentration per Run 1	0.5015 ppm	0.5065 ppm	0.5035 ppm	10.4082 ppm	0.5198 ppm	0.5156 ppm	0.5284 ppm
Concentration per Run 2	0.5004 ppm	0.5108 ppm	0.5132 ppm	10.3533 ppm	0.5199 ppm	0.5101 ppm	0.5297 ppm
Concentration per Run 3	0.4960 ppm	0.5073 ppm	0.5128 ppm	10.3943 ppm	0.5163 ppm	0.5111 ppm	0.5300 ppm
Recovery Percentage 1	99.857 %	101.642 %	101.965 %	103.853 %	103.736 %	102.448 %	105.875 %
Concentration RSD	0.6 %	0.4 %	1.1 %	0.3 %	0.4 %	0.6 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5055 ppm	5.8195 ppm	0.5388 ppm	0.5256 ppm	0.5135 ppm	0.5133 ppm	0.5012 ppm
Concentration per Run 1	0.5067 ppm	5.7921 ppm	0.5431 ppm	0.5254 ppm	0.5119 ppm	0.5155 ppm	0.4997 ppm
Concentration per Run 2	0.5033 ppm	5.8492 ppm	0.5402 ppm	0.5254 ppm	0.5157 ppm	0.5122 ppm	0.5034 ppm
Concentration per Run 3	0.5066 ppm	5.8173 ppm	0.5332 ppm	0.5258 ppm	0.5128 ppm	0.5123 ppm	0.5005 ppm
Recovery Percentage 1	101.103 %	110.848 %	107.761 %	105.111 %	102.696 %	102.668 %	100.240 %
Concentration RSD	0.4 %	0.5 %	0.9 %	0.0 %	0.4 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5121 ppm	103.8310 %	100.7906 %	102.3408 %	102.6788 %	100.3444 %	102.6141 %
Concentration per Run 1	0.5129 ppm	102.9818 %	101.1068 %	101.2079 %	101.7797 %	101.2531 %	101.4041 %
Concentration per Run 2	0.5165 ppm	102.7368 %	99.8836 %	103.3348 %	101.4754 %	99.0990 %	103.7916 %
Concentration per Run 3	0.5068 ppm	105.7743 %	101.3813 %	102.4798 %	104.7814 %	100.6811 %	102.6467 %
Recovery Percentage 1	102.416 %						
Concentration RSD	1.0 %	1.6 %	0.8 %	1.0 %	1.8 %	1.1 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICB
Analysis started at: 6/17/2024 3:38:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0085 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0067 ppm
Concentration per Run 1	-0.0001 ppm	0.0048 ppm	0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 2	-0.0006 ppm	0.0175 ppm	0.0008 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run 3	-0.0004 ppm	0.0032 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Recovery Percentage 1	-5.130 %	8.495 %	10.834 %	0.283 %	-0.037 %	1.067 %	6.703 %
Concentration RSD	77.2 %	92.2 %	40.7 %	1,622.7 %	904.2 %	3.8 %	42.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	0.0224 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0018 ppm	0.0291 ppm	0.0005 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0005 ppm	0.0004 ppm	0.0020 ppm	0.0119 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm	0.0027 ppm	0.0262 ppm	0.0007 ppm
Recovery Percentage 1	0.072 %	0.616 %	1.203 %	5.070 %	4.319 %	0.895 %	19.495 %
Concentration RSD	2,439.2 %	424.9 %	297.4 %	19.7 %	22.1 %	41.2 %	72.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	-0.0006 ppm	0.0031 ppm
Concentration per Run 1	0.0014 ppm	0.0003 ppm	0.0014 ppm	0.0011 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0012 ppm	0.0001 ppm	0.0014 ppm	-0.0025 ppm	-0.0007 ppm	-0.0006 ppm	0.0052 ppm
Concentration per Run 3	-0.0017 ppm	0.0002 ppm	0.0012 ppm	0.0047 ppm	0.0004 ppm	-0.0005 ppm	0.0038 ppm
Recovery Percentage 1	0.310 %	2.031 %	2.653 %	0.055 %	-0.094 %	-5.723 %	6.139 %
Concentration RSD	556.3 %	45.4 %	6.7 %	329.2 %	2,499.4 %	12.9 %	83.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0090 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0027 ppm	0.0087 ppm	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.0096 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0086 ppm	-0.0011 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	11.140 %	1.799 %	-1.421 %	-0.098 %	-0.005 %	-4.294 %	-1.198 %
Concentration RSD	143.1 %	6.1 %	55.3 %	1,781.4 %	29,039.2 %	41.9 %	131.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	101.7226 %	100.3323 %	101.7113 %	102.3905 %	100.5408 %	102.0652 %
Concentration per Run 1	-0.0002 ppm	101.7979 %	101.0084 %	101.9178 %	102.6994 %	101.0469 %	101.9711 %
Concentration per Run 2	-0.0001 ppm	101.3054 %	99.9967 %	102.1343 %	102.1109 %	100.7155 %	102.6916 %
Concentration per Run 3	0.0001 ppm	102.0643 %	99.9919 %	101.0817 %	102.3611 %	99.8601 %	101.5329 %
Recovery Percentage 1	-1.328 %						
Concentration RSD	232.4 %	0.4 %	0.6 %	0.5 %	0.3 %	0.6 %	0.6 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LLOQ
Analysis started at: 6/17/2024 3:45:03 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0069 ppm	0.1107 ppm	0.0071 ppm	0.0283 ppm	0.0105 ppm	0.0051 ppm	0.0980 ppm
Concentration per Run 1	0.0064 ppm	0.1152 ppm	0.0075 ppm	0.0284 ppm	0.0106 ppm	0.0051 ppm	0.1000 ppm
Concentration per Run 2	0.0073 ppm	0.1030 ppm	0.0070 ppm	0.0292 ppm	0.0104 ppm	0.0051 ppm	0.0978 ppm
Concentration per Run 3	0.0071 ppm	0.1140 ppm	0.0069 ppm	0.0273 ppm	0.0105 ppm	0.0052 ppm	0.0961 ppm
Recovery Percentage 1	99.210 %	110.724 %	142.566 %	94.425 %	104.805 %	102.371 %	97.973 %
Concentration RSD	6.7 %	6.1 %	4.3 %	3.3 %	0.6 %	0.8 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0039 ppm	0.0214 ppm	0.0098 ppm	0.0112 ppm	0.0536 ppm	2.7145 ppm	0.0113 ppm
Concentration per Run 1	0.0039 ppm	0.0210 ppm	0.0097 ppm	0.0112 ppm	0.0551 ppm	2.7241 ppm	0.0109 ppm
Concentration per Run 2	0.0038 ppm	0.0216 ppm	0.0098 ppm	0.0115 ppm	0.0538 ppm	2.7283 ppm	0.0117 ppm
Concentration per Run 3	0.0040 ppm	0.0215 ppm	0.0098 ppm	0.0109 ppm	0.0518 ppm	2.6910 ppm	0.0113 ppm
Recovery Percentage 1	97.803 %	106.807 %	97.611 %	112.140 %	107.153 %	108.579 %	
Concentration RSD	3.0 %	1.6 %	0.5 %	2.7 %	3.1 %	0.8 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1031 ppm	0.0105 ppm	0.0515 ppm	2.1076 ppm	0.0254 ppm	0.0106 ppm	0.0545 ppm
Concentration per Run 1	0.1015 ppm	0.0106 ppm	0.0514 ppm	2.0868 ppm	0.0254 ppm	0.0103 ppm	0.0558 ppm
Concentration per Run 2	0.1024 ppm	0.0107 ppm	0.0514 ppm	2.1201 ppm	0.0251 ppm	0.0115 ppm	0.0538 ppm
Concentration per Run 3	0.1052 ppm	0.0103 ppm	0.0518 ppm	2.1160 ppm	0.0257 ppm	0.0099 ppm	0.0537 ppm
Recovery Percentage 1	103.060 %	105.189 %	103.025 %	105.381 %	101.661 %	105.544 %	108.907 %
Concentration RSD	1.9 %	1.7 %	0.4 %	0.9 %	1.2 %	7.6 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0123 ppm	0.5508 ppm	0.0516 ppm	0.0100 ppm	0.0496 ppm	0.0196 ppm	0.0097 ppm
Concentration per Run 1	0.0127 ppm	0.5529 ppm	0.0514 ppm	0.0100 ppm	0.0491 ppm	0.0186 ppm	0.0096 ppm
Concentration per Run 2	0.0112 ppm	0.5506 ppm	0.0520 ppm	0.0101 ppm	0.0502 ppm	0.0197 ppm	0.0098 ppm
Concentration per Run 3	0.0129 ppm	0.5489 ppm	0.0516 ppm	0.0100 ppm	0.0496 ppm	0.0206 ppm	0.0096 ppm
Recovery Percentage 1	122.779 %	110.151 %	103.284 %	100.301 %	99.227 %	98.114 %	96.556 %
Concentration RSD	7.5 %	0.4 %	0.6 %	1.0 %	1.1 %	5.1 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0049 ppm	103.1828 %	100.2715 %	104.0532 %	102.2831 %	99.8741 %	103.8237 %
Concentration per Run 1	0.0049 ppm	103.7328 %	101.0987 %	103.4943 %	102.9173 %	100.4325 %	103.4050 %
Concentration per Run 2	0.0047 ppm	103.5874 %	100.4012 %	104.9655 %	102.6442 %	100.3083 %	104.7564 %
Concentration per Run 3	0.0051 ppm	102.2281 %	99.3148 %	103.6998 %	101.2878 %	98.8816 %	103.3096 %
Recovery Percentage 1	98.062 %						
Concentration RSD	3.3 %	0.8 %	0.9 %	0.8 %	0.9 %	0.9 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: ICSA
Analysis started at: 6/17/2024 3:48:38 PM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	526.4395 ppm	-0.0047 ppm	-0.0076 ppm	0.0023 ppm	0.0001 ppm	481.5704 ppm
Concentration per Run 1	0.0003 ppm	531.5462 ppm	-0.0027 ppm	-0.0047 ppm	0.0024 ppm	0.0001 ppm	487.0712 ppm
Concentration per Run 2	-0.0001 ppm	529.3775 ppm	-0.0048 ppm	-0.0120 ppm	0.0023 ppm	0.0000 ppm	484.6350 ppm
Concentration per Run 3	0.0001 ppm	518.3947 ppm	-0.0065 ppm	-0.0060 ppm	0.0022 ppm	0.0001 ppm	473.0050 ppm
Recovery Percentage 1	1.837 %		-93.180 %	-25.286 %	23.081 %	1.824 %	
Concentration RSD	151.5 %	1.3 %	40.4 %	51.5 %	5.9 %	33.3 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0073 ppm	-0.0006 ppm	0.0031 ppm	0.0026 ppm	192.5578 ppm	-0.0019 ppm	-0.0039 ppm
Concentration per Run 1	-0.0071 ppm	-0.0005 ppm	0.0035 ppm	0.0021 ppm	194.3465 ppm	0.0176 ppm	-0.0032 ppm
Concentration per Run 2	-0.0076 ppm	-0.0007 ppm	0.0029 ppm	0.0024 ppm	193.3265 ppm	-0.0088 ppm	-0.0035 ppm
Concentration per Run 3	-0.0071 ppm	-0.0005 ppm	0.0029 ppm	0.0032 ppm	190.0005 ppm	-0.0144 ppm	-0.0048 ppm
Recovery Percentage 1	-145.213 %	-2.751 %	30.899 %	25.679 %		-0.074 %	-77.102 %
Concentration RSD	4.3 %	28.4 %	10.7 %	22.7 %	1.2 %	920.9 %	22.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	482.5850 ppm	-0.0006 ppm	-0.0017 ppm	0.0112 ppm	0.0005 ppm	0.0044 ppm	-0.0163 ppm
Concentration per Run 1	483.1709 ppm	-0.0004 ppm	-0.0011 ppm	0.0086 ppm	0.0004 ppm	0.0059 ppm	-0.0137 ppm
Concentration per Run 2	483.2127 ppm	-0.0009 ppm	-0.0012 ppm	0.0115 ppm	0.0001 ppm	0.0030 ppm	-0.0142 ppm
Concentration per Run 3	481.3715 ppm	-0.0005 ppm	-0.0027 ppm	0.0136 ppm	0.0010 ppm	0.0041 ppm	-0.0209 ppm
Recovery Percentage 1		-6.035 %	-3.368 %	0.561 %	2.103 %	43.551 %	-32.543 %
Concentration RSD	0.2 %	49.1 %	50.2 %	22.4 %	91.7 %	34.1 %	24.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0130 ppm	0.0346 ppm	-0.0008 ppm	0.0003 ppm	0.0025 ppm	0.0024 ppm	0.0018 ppm
Concentration per Run 1	-0.0144 ppm	0.0355 ppm	-0.0020 ppm	0.0003 ppm	0.0023 ppm	0.0024 ppm	0.0010 ppm
Concentration per Run 2	-0.0090 ppm	0.0332 ppm	0.0003 ppm	0.0003 ppm	0.0022 ppm	0.0019 ppm	0.0022 ppm
Concentration per Run 3	-0.0158 ppm	0.0352 ppm	-0.0007 ppm	0.0004 ppm	0.0031 ppm	0.0029 ppm	0.0022 ppm
Recovery Percentage 1	-130.415 %	6.926 %	-1.645 %	3.125 %	25.454 %	11.966 %	17.942 %
Concentration RSD	27.6 %	3.5 %	139.4 %	11.8 %	18.1 %	21.5 %	36.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	88.7320 %	95.9497 %	74.2215 %	86.7748 %	96.0860 %	86.7770 %
Concentration per Run 1	-0.0010 ppm	88.4808 %	94.6709 %	74.4467 %	86.5464 %	94.9743 %	86.9807 %
Concentration per Run 2	-0.0019 ppm	88.6625 %	95.3580 %	74.2030 %	86.5820 %	95.6808 %	86.7115 %
Concentration per Run 3	-0.0015 ppm	89.0528 %	97.8202 %	74.0146 %	87.1958 %	97.6030 %	86.6387 %
Recovery Percentage 1	-29.510 %						
Concentration RSD	27.7 %	0.3 %	1.7 %	0.3 %	0.4 %	1.4 %	0.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: SIC Multi
Analysis started at: 6/17/2024 4:09:54 PM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0327 ppm	0.0023 ppm	0.0019 ppm	0.0002 ppm	-0.0004 ppm	0.0012 ppm
Concentration per Run 1	-0.0003 ppm	0.0369 ppm	0.0028 ppm	0.0024 ppm	0.0002 ppm	-0.0002 ppm	-0.0032 ppm
Concentration per Run 2	-0.0006 ppm	0.0306 ppm	0.0022 ppm	0.0015 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	0.0306 ppm	0.0020 ppm	0.0018 ppm	0.0002 ppm	-0.0005 ppm	0.0071 ppm
Recovery Percentage 1	-6.284 %	32.693 %	46.590 %	6.472 %	1.727 %	-9.926 %	1.226 %
Concentration RSD	28.7 %	11.1 %	17.3 %	23.5 %	14.9 %	43.1 %	430.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0040 ppm	**20.7503 ppm**	-0.0020 ppm	0.0087 ppm	0.0144 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	-0.0044 ppm	20.8960 ppm	-0.0021 ppm	0.0070 ppm	0.0336 ppm	0.0004 ppm
Concentration per Run 2	-0.0005 ppm	-0.0039 ppm	20.7210 ppm	-0.0018 ppm	0.0084 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	-0.0036 ppm	20.6338 ppm	-0.0022 ppm	0.0107 ppm	0.0108 ppm	0.0010 ppm
Recovery Percentage 1	-8.483 %	-19.868 %	207,502.704 %	-20.220 %	17.360 %	0.577 %	11.643 %
Concentration RSD	21.0 %	10.2 %	**0.6 %**	10.6 %	22.0 %	122.1 %	71.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0129 ppm	**20.9322 ppm**	-0.0025 ppm	0.0074 ppm	0.0003 ppm	0.0002 ppm	-0.0080 ppm
Concentration per Run 1	-0.0158 ppm	20.8505 ppm	-0.0025 ppm	0.0093 ppm	0.0009 ppm	0.0001 ppm	-0.0060 ppm
Concentration per Run 2	-0.0109 ppm	21.0257 ppm	-0.0028 ppm	0.0051 ppm	-0.0002 ppm	0.0011 ppm	-0.0113 ppm
Concentration per Run 3	-0.0120 ppm	20.9206 ppm	-0.0022 ppm	0.0077 ppm	0.0001 ppm	-0.0007 ppm	-0.0069 ppm
Recovery Percentage 1	-12.867 %	209,322.318 %	-5.010 %	0.368 %	1.082 %	1.846 %	-16.094 %
Concentration RSD	19.9 %	**0.4 %**	11.5 %	29.0 %	197.6 %	497.7 %	35.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0082 ppm	0.1762 ppm	-0.0006 ppm	0.0004 ppm	**20.3622 ppm**	-0.0021 ppm	**10.4467 ppm**
Concentration per Run 1	-0.0087 ppm	0.1699 ppm	-0.0008 ppm	0.0004 ppm	20.4875 ppm	-0.0036 ppm	10.5185 ppm
Concentration per Run 2	-0.0079 ppm	0.1817 ppm	-0.0014 ppm	0.0005 ppm	20.3092 ppm	-0.0025 ppm	10.4036 ppm
Concentration per Run 3	-0.0081 ppm	0.1771 ppm	0.0005 ppm	0.0004 ppm	20.2898 ppm	-0.0003 ppm	10.4180 ppm
Recovery Percentage 1	-82.171 %	35.249 %	-1.116 %	4.244 %	203,621.523 %	-10.546 %	104,466.940 %
Concentration RSD	4.7 %	3.4 %	179.3 %	13.0 %	**0.5 %**	80.1 %	**0.6 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	103.5846 %	100.7690 %	109.5704 %	102.4007 %	99.8181 %	101.7520 %
Concentration per Run 1	-0.0006 ppm	103.5290 %	100.4012 %	110.2975 %	102.3781 %	99.2563 %	102.6682 %
Concentration per Run 2	-0.0010 ppm	103.3325 %	101.5699 %	109.5708 %	102.2616 %	100.3131 %	101.4196 %
Concentration per Run 3	-0.0006 ppm	103.8924 %	100.3358 %	108.8428 %	102.5622 %	99.8849 %	101.1681 %
Recovery Percentage 1	-15.000 %						
Concentration RSD	33.0 %	0.3 %	0.7 %	0.7 %	0.1 %	0.5 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LDR Check
Analysis started at: 6/17/2024 4:13:31 PM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.1291 ppm	23.8992 ppm	20.1221 ppm	20.2421 ppm	5.1592 ppm	0.0245 ppm
Concentration per Run 1	0.0015 ppm	0.1257 ppm	23.8888 ppm	20.1219 ppm	20.4112 ppm	5.1939 ppm	0.0235 ppm
Concentration per Run 2	0.0008 ppm	0.1360 ppm	23.9059 ppm	20.0831 ppm	20.0214 ppm	5.1073 ppm	0.0238 ppm
Concentration per Run 3	0.0005 ppm	0.1254 ppm	23.9029 ppm	20.1613 ppm	20.2937 ppm	5.1764 ppm	0.0262 ppm
Recovery Percentage 1			119.496 %	100.611 %	101.210 %		
Concentration RSD	54.5 %	4.7 %	0.0 %	0.2 %	1.0 %	0.9 %	6.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.2016 ppm	5.2331 ppm	0.0013 ppm	19.5399 ppm	0.0342 ppm	539.0458 ppm	19.2752 ppm
Concentration per Run 1	5.2117 ppm	5.2303 ppm	0.0014 ppm	19.5805 ppm	0.0325 ppm	541.9528 ppm	19.4508 ppm
Concentration per Run 2	5.2144 ppm	5.2239 ppm	0.0014 ppm	19.4646 ppm	0.0374 ppm	533.7603 ppm	19.0928 ppm
Concentration per Run 3	5.1788 ppm	5.2450 ppm	0.0011 ppm	19.5747 ppm	0.0328 ppm	541.4245 ppm	19.2820 ppm
Recovery Percentage 1	104.032 %	104.662 %		97.699 %		107.809 %	
Concentration RSD	0.4 %	0.2 %	13.6 %	0.3 %	8.0 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0048 ppm	0.0008 ppm	5.2721 ppm	441.9003 ppm	10.1990 ppm	54.0620 ppm	5.1929 ppm
Concentration per Run 1	-0.0028 ppm	0.0008 ppm	5.1629 ppm	446.4771 ppm	10.2131 ppm	53.9824 ppm	5.1476 ppm
Concentration per Run 2	-0.0088 ppm	0.0006 ppm	5.2809 ppm	436.8299 ppm	10.2010 ppm	54.0998 ppm	5.1818 ppm
Concentration per Run 3	-0.0027 ppm	0.0008 ppm	5.3723 ppm	442.3939 ppm	10.1828 ppm	54.1038 ppm	5.2494 ppm
Recovery Percentage 1		0.000 %	105.441 %	88.380 %	101.990 %	108.124 %	103.859 %
Concentration RSD	72.6 %	12.8 %	2.0 %	1.1 %	0.1 %	0.1 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.4808 ppm	22.5825 ppm	8.0118 ppm	5.0129 ppm	0.0145 ppm	4.8920 ppm	-0.0032 ppm
Concentration per Run 1	5.4936 ppm	22.4422 ppm	7.9982 ppm	5.0511 ppm	0.0164 ppm	4.8795 ppm	-0.0028 ppm
Concentration per Run 2	5.4609 ppm	22.5501 ppm	8.0126 ppm	4.9606 ppm	0.0148 ppm	4.9037 ppm	-0.0030 ppm
Concentration per Run 3	5.4879 ppm	22.7552 ppm	8.0246 ppm	5.0270 ppm	0.0122 ppm	4.8927 ppm	-0.0039 ppm
Recovery Percentage 1	109.616 %	112.912 %	80.118 %	100.258 %	0.000 %	97.839 %	0.000 %
Concentration RSD	0.3 %	0.7 %	0.2 %	0.9 %	14.6 %	0.2 %	16.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.7514 ppm	91.0346 %	97.3840 %	81.8928 %	89.0813 %	96.7834 %	88.1442 %
Concentration per Run 1	20.7666 ppm	91.1346 %	96.9747 %	81.8492 %	89.2241 %	96.5955 %	88.1403 %
Concentration per Run 2	20.7593 ppm	90.7086 %	98.1307 %	81.5453 %	88.7390 %	97.1170 %	88.1324 %
Concentration per Run 3	20.7284 ppm	91.2606 %	97.0466 %	82.2838 %	89.2807 %	96.6376 %	88.1600 %
Recovery Percentage 1	103.757 %						
Concentration RSD	0.1 %	0.3 %	0.7 %	0.5 %	0.3 %	0.3 %	0.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LLOQ 005 As pass
Analysis started at: 6/17/2024 4:26:22 PM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0047 ppm	0.0139 ppm	0.0057 ppm	0.0064 ppm	0.0052 ppm	0.0050 ppm	0.0112 ppm
Concentration per Run 1	0.0044 ppm	0.0131 ppm	0.0053 ppm	0.0055 ppm	0.0053 ppm	0.0050 ppm	0.0126 ppm
Concentration per Run 2	0.0045 ppm	0.0169 ppm	0.0061 ppm	0.0053 ppm	0.0051 ppm	0.0051 ppm	0.0086 ppm
Concentration per Run 3	0.0052 ppm	0.0116 ppm	0.0058 ppm	0.0083 ppm	0.0051 ppm	0.0050 ppm	0.0125 ppm
Recovery Percentage 1	94.008 %	0.000 %	114.051 %	0.000 %	0.000 %	100.607 %	0.000 %
Concentration RSD	9.6 %	19.4 %	7.2 %	26.8 %	2.9 %	0.6 %	20.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0050 ppm	0.0050 ppm	0.0049 ppm	0.0052 ppm	0.0080 ppm	0.0923 ppm	0.0068 ppm
Concentration per Run 1	0.0050 ppm	0.0051 ppm	0.0049 ppm	0.0050 ppm	0.0091 ppm	0.0815 ppm	0.0065 ppm
Concentration per Run 2	0.0050 ppm	0.0050 ppm	0.0048 ppm	0.0054 ppm	0.0066 ppm	0.0914 ppm	0.0074 ppm
Concentration per Run 3	0.0049 ppm	0.0049 ppm	0.0051 ppm	0.0053 ppm	0.0083 ppm	0.1040 ppm	0.0067 ppm
Recovery Percentage 1	99.547 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	
Concentration RSD	1.9 %	1.8 %	3.1 %	3.3 %	15.6 %	12.2 %	6.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0060 ppm	0.0051 ppm	0.0045 ppm	0.1035 ppm	0.0058 ppm	0.0052 ppm	0.0063 ppm
Concentration per Run 1	0.0056 ppm	0.0049 ppm	0.0047 ppm	0.1047 ppm	0.0056 ppm	0.0042 ppm	0.0059 ppm
Concentration per Run 2	0.0065 ppm	0.0051 ppm	0.0039 ppm	0.1040 ppm	0.0055 ppm	0.0062 ppm	0.0066 ppm
Concentration per Run 3	0.0061 ppm	0.0053 ppm	0.0049 ppm	0.1018 ppm	0.0064 ppm	0.0051 ppm	0.0063 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	7.3 %	3.6 %	11.2 %	1.5 %	8.3 %	18.7 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	0.0857 ppm	0.0044 ppm	0.0050 ppm	0.0047 ppm	0.0042 ppm	0.0048 ppm
Concentration per Run 1	0.0069 ppm	0.0867 ppm	0.0049 ppm	0.0049 ppm	0.0047 ppm	0.0038 ppm	0.0046 ppm
Concentration per Run 2	0.0052 ppm	0.0880 ppm	0.0039 ppm	0.0051 ppm	0.0047 ppm	0.0049 ppm	0.0049 ppm
Concentration per Run 3	0.0024 ppm	0.0825 ppm	0.0044 ppm	0.0049 ppm	0.0047 ppm	0.0040 ppm	0.0048 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	46.7 %	3.4 %	11.1 %	1.9 %	0.1 %	14.3 %	3.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	101.5549 %	99.4441 %	102.7597 %	101.7405 %	99.7830 %	103.1002 %
Concentration per Run 1	0.0057 ppm	101.0629 %	99.0285 %	103.9801 %	101.2824 %	99.2368 %	104.3203 %
Concentration per Run 2	0.0054 ppm	100.2469 %	99.8890 %	102.6379 %	100.4496 %	100.0384 %	102.8392 %
Concentration per Run 3	0.0051 ppm	103.3548 %	99.4148 %	101.6609 %	103.4895 %	100.0738 %	102.1411 %
Recovery Percentage 1	108.182 %						
Concentration RSD	5.0 %	1.6 %	0.4 %	1.1 %	1.5 %	0.5 %	1.1 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LLOQ 01 Se pass
Analysis started at: 6/17/2024 4:29:56 PM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0105 ppm	0.0226 ppm	0.0098 ppm	0.0093 ppm	0.0103 ppm	0.0101 ppm	0.0144 ppm
Concentration per Run 1	0.0109 ppm	0.0202 ppm	0.0096 ppm	0.0089 ppm	0.0103 ppm	0.0100 ppm	0.0145 ppm
Concentration per Run 2	0.0103 ppm	0.0224 ppm	0.0104 ppm	0.0098 ppm	0.0103 ppm	0.0101 ppm	0.0156 ppm
Concentration per Run 3	0.0102 ppm	0.0253 ppm	0.0096 ppm	0.0093 ppm	0.0102 ppm	0.0100 ppm	0.0132 ppm
Recovery Percentage 1	0.000 %	0.000 %	98.465 %	93.432 %	102.830 %	0.000 %	0.000 %
Concentration RSD	3.6 %	11.3 %	4.7 %	4.8 %	0.7 %	0.6 %	8.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0103 ppm	0.0113 ppm	0.0098 ppm	0.0103 ppm	0.0134 ppm	0.1316 ppm	0.0139 ppm
Concentration per Run 1	0.0104 ppm	0.0112 ppm	0.0096 ppm	0.0100 ppm	0.0138 ppm	0.1158 ppm	0.0143 ppm
Concentration per Run 2	0.0104 ppm	0.0112 ppm	0.0097 ppm	0.0105 ppm	0.0129 ppm	0.1433 ppm	0.0137 ppm
Concentration per Run 3	0.0102 ppm	0.0115 ppm	0.0100 ppm	0.0104 ppm	0.0134 ppm	0.1356 ppm	0.0139 ppm
Recovery Percentage 1	0.000 %	113.051 %	97.732 %	103.200 %	0.000 %	0.000 %	
Concentration RSD	1.3 %	1.7 %	2.5 %	2.6 %	3.6 %	10.8 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0112 ppm	0.0100 ppm	0.0095 ppm	0.1994 ppm	0.0108 ppm	0.0108 ppm	0.0118 ppm
Concentration per Run 1	0.0127 ppm	0.0101 ppm	0.0097 ppm	0.2010 ppm	0.0105 ppm	0.0102 ppm	0.0133 ppm
Concentration per Run 2	0.0097 ppm	0.0102 ppm	0.0096 ppm	0.2080 ppm	0.0105 ppm	0.0114 ppm	0.0103 ppm
Concentration per Run 3	0.0112 ppm	0.0097 ppm	0.0092 ppm	0.1892 ppm	0.0114 ppm	0.0110 ppm	0.0119 ppm
Recovery Percentage 1	0.000 %	99.925 %	0.000 %	0.000 %	107.852 %	108.418 %	0.000 %
Concentration RSD	13.3 %	2.4 %	2.3 %	4.8 %	4.9 %	5.7 %	12.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0105 ppm	0.1389 ppm	0.0095 ppm	0.0100 ppm	0.0099 ppm	0.0103 ppm	0.0096 ppm
Concentration per Run 1	0.0096 ppm	0.1393 ppm	0.0095 ppm	0.0100 ppm	0.0097 ppm	0.0101 ppm	0.0096 ppm
Concentration per Run 2	0.0098 ppm	0.1394 ppm	0.0096 ppm	0.0101 ppm	0.0100 ppm	0.0108 ppm	0.0094 ppm
Concentration per Run 3	0.0120 ppm	0.1381 ppm	0.0092 ppm	0.0098 ppm	0.0101 ppm	0.0100 ppm	0.0099 ppm
Recovery Percentage 1	104.720 %	0.000 %	94.547 %	99.944 %	99.264 %	103.231 %	96.451 %
Concentration RSD	12.9 %	0.5 %	2.2 %	1.5 %	2.2 %	4.1 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0106 ppm	104.4636 %	100.4395 %	103.7000 %	104.5263 %	100.5387 %	103.9986 %
Concentration per Run 1	0.0107 ppm	104.8257 %	100.7148 %	103.3691 %	104.9958 %	100.5383 %	103.7498 %
Concentration per Run 2	0.0103 ppm	104.8900 %	99.8755 %	102.7736 %	105.0419 %	100.2563 %	103.2320 %
Concentration per Run 3	0.0108 ppm	103.6751 %	100.7283 %	104.9573 %	103.5410 %	100.8216 %	105.0141 %
Recovery Percentage 1	105.578 %						
Concentration RSD	2.5 %	0.7 %	0.5 %	1.1 %	0.8 %	0.3 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: IEC 500 Al Pb+ As+
Analysis started at: 6/17/2024 4:33:24 PM
Rack 1
Vial 3
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0055 ppm	503.8675 ppm	0.0014 ppm	-0.0088 ppm	0.0000 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	-0.0059 ppm	503.8639 ppm	0.0021 ppm	-0.0112 ppm	-0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 2	-0.0051 ppm	501.6995 ppm	-0.0005 ppm	-0.0068 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	-0.0056 ppm	506.0391 ppm	0.0025 ppm	-0.0083 ppm	0.0000 ppm	0.0000 ppm	0.0078 ppm
Recovery Percentage 1	-79.278 %		27.167 %	-29.257 %	-0.114 %	0.100 %	
Concentration RSD	7.2 %	0.4 %	120.4 %	25.0 %	350.8 %	367.4 %	36.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0004 ppm	-0.0001 ppm	-0.0110 ppm	0.0050 ppm	0.0338 ppm	0.0015 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0111 ppm	0.0056 ppm	0.0337 ppm	0.0014 ppm
Concentration per Run 2	-0.0010 ppm	0.0004 ppm	-0.0004 ppm	-0.0109 ppm	0.0054 ppm	0.0534 ppm	0.0022 ppm
Concentration per Run 3	-0.0005 ppm	0.0005 ppm	0.0002 ppm	-0.0111 ppm	0.0040 ppm	0.0144 ppm	0.0009 ppm
Recovery Percentage 1	-13.165 %	1.797 %	-0.859 %	-110.165 %		1.354 %	30.625 %
Concentration RSD	51.3 %	55.3 %	297.6 %	1.0 %	16.6 %	57.6 %	44.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0029 ppm	-0.0003 ppm	-0.0006 ppm	0.0123 ppm	0.0008 ppm	0.0006 ppm	-0.0037 ppm
Concentration per Run 1	0.0051 ppm	-0.0002 ppm	-0.0009 ppm	0.0135 ppm	0.0008 ppm	-0.0006 ppm	0.0026 ppm
Concentration per Run 2	0.0017 ppm	-0.0001 ppm	-0.0007 ppm	0.0126 ppm	0.0008 ppm	0.0009 ppm	-0.0114 ppm
Concentration per Run 3	0.0020 ppm	-0.0007 ppm	-0.0001 ppm	0.0108 ppm	0.0009 ppm	0.0016 ppm	-0.0023 ppm
Recovery Percentage 1		-3.309 %	-1.129 %	0.615 %	3.301 %	6.404 %	-7.345 %
Concentration RSD	64.5 %	95.2 %	76.7 %	11.2 %	6.0 %	174.8 %	193.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0034 ppm	0.0366 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	0.0035 ppm	0.0002 ppm
Concentration per Run 1	-0.0057 ppm	0.0365 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0051 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	0.0365 ppm	-0.0021 ppm	0.0000 ppm	-0.0003 ppm	0.0034 ppm	0.0001 ppm
Concentration per Run 3	-0.0050 ppm	0.0369 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0003 ppm
Recovery Percentage 1	-34.080 %	7.329 %	-1.753 %	0.556 %	-1.177 %	17.655 %	2.016 %
Concentration RSD	98.0 %	0.7 %	145.2 %	173.6 %	139.5 %	44.2 %	52.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	97.5201 %	98.9444 %	91.5491 %	94.5963 %	97.7893 %	99.2912 %
Concentration per Run 1	0.0003 ppm	97.6953 %	99.5619 %	92.0169 %	94.8237 %	98.5536 %	99.9511 %
Concentration per Run 2	0.0007 ppm	97.9612 %	100.3129 %	91.3001 %	95.1774 %	98.8029 %	98.9296 %
Concentration per Run 3	0.0006 ppm	96.9038 %	96.9584 %	91.3303 %	93.7877 %	96.0113 %	98.9930 %
Recovery Percentage 1	10.513 %						
Concentration RSD	41.8 %	0.6 %	1.8 %	0.4 %	0.8 %	1.6 %	0.6 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: xIEC 10 V Tl-
Analysis started at: 6/17/2024 4:36:52 PM
Rack 1
Vial 4
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0162 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0124 ppm
Concentration per Run 1	0.0002 ppm	0.0192 ppm	0.0028 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm	0.0125 ppm
Concentration per Run 2	-0.0002 ppm	0.0196 ppm	-0.0019 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0097 ppm
Concentration per Run 3	0.0002 ppm	0.0098 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0152 ppm
Recovery Percentage 1	0.969 %	16.213 %	11.959 %	-0.174 %	1.135 %	-2.425 %	12.444 %
Concentration RSD	309.1 %	34.3 %	396.3 %	1,353.1 %	25.4 %	64.2 %	22.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0079 ppm	0.0394 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0008 ppm	0.0071 ppm	0.0488 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0071 ppm	0.0295 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm	0.0093 ppm	0.0398 ppm	0.0001 ppm
Recovery Percentage 1	-0.611 %	-1.150 %	0.924 %	9.268 %	15.700 %	1.575 %	10.722 %
Concentration RSD	586.9 %	145.7 %	75.5 %	45.9 %	16.1 %	24.6 %	148.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0042 ppm	0.0003 ppm	-0.0018 ppm	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 1	0.0033 ppm	0.0002 ppm	-0.0019 ppm	-0.0071 ppm	0.0002 ppm	0.0013 ppm	-0.0039 ppm
Concentration per Run 2	0.0060 ppm	0.0003 ppm	-0.0014 ppm	0.0052 ppm	-0.0004 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 3	0.0032 ppm	0.0002 ppm	-0.0020 ppm	-0.0038 ppm	0.0000 ppm	-0.0012 ppm	-0.0028 ppm
Recovery Percentage 1	4.177 %	2.571 %	-3.553 %	-0.096 %	-0.248 %	-0.176 %	-4.621 %
Concentration RSD	38.6 %	20.7 %	18.5 %	332.7 %	441.8 %	7,023.8 %	80.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	0.0050 ppm	-0.0027 ppm	0.0001 ppm	-0.0002 ppm	-0.0034 ppm	**10.4628 ppm**
Concentration per Run 1	0.0008 ppm	0.0066 ppm	-0.0015 ppm	0.0001 ppm	-0.0003 ppm	-0.0024 ppm	10.5968 ppm
Concentration per Run 2	0.0020 ppm	0.0036 ppm	-0.0025 ppm	0.0000 ppm	-0.0002 ppm	-0.0015 ppm	10.3958 ppm
Concentration per Run 3	0.0018 ppm	0.0049 ppm	-0.0043 ppm	0.0001 ppm	-0.0001 ppm	-0.0064 ppm	10.3956 ppm
Recovery Percentage 1	15.241 %	1.009 %	-5.491 %	0.839 %	-2.034 %	-17.218 %	104,627.588 %
Concentration RSD	43.7 %	30.5 %	50.8 %	57.3 %	56.8 %	76.3 %	**1.1 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	105.3364 %	102.4995 %	104.8900 %	104.8420 %	102.2117 %	104.1903 %
Concentration per Run 1	0.0005 ppm	104.2781 %	102.7672 %	104.8563 %	104.0906 %	102.6447 %	104.4977 %
Concentration per Run 2	0.0003 ppm	106.1666 %	102.1263 %	104.3687 %	105.6082 %	101.8533 %	103.8202 %
Concentration per Run 3	0.0008 ppm	105.5646 %	102.6050 %	105.4449 %	104.8273 %	102.1371 %	104.2529 %
Recovery Percentage 1	10.504 %						
Concentration RSD	46.5 %	0.9 %	0.3 %	0.5 %	0.7 %	0.4 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: IEC 20 Ti Tl-
Analysis started at: 6/17/2024 4:49:14 PM
Rack 1
Vial 5
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0013 ppm	-0.0009 ppm	0.0006 ppm	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0020 ppm
Concentration per Run 1	-0.0014 ppm	-0.0029 ppm	0.0016 ppm	0.0004 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0013 ppm	-0.0087 ppm	-0.0005 ppm	0.0009 ppm	0.0001 ppm	-0.0002 ppm	0.0048 ppm
Concentration per Run 3	-0.0012 ppm	0.0088 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0012 ppm
Recovery Percentage 1	-18.865 %	-0.915 %	11.537 %	1.533 %	1.669 %	-8.034 %	1.955 %
Concentration RSD	8.9 %	970.5 %	180.7 %	91.5 %	83.8 %	29.0 %	131.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0021 ppm	0.0006 ppm	-0.0011 ppm	0.0006 ppm	0.0180 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0023 ppm	0.0007 ppm	-0.0015 ppm	0.0003 ppm	0.0056 ppm	0.0019 ppm
Concentration per Run 2	-0.0001 ppm	-0.0022 ppm	0.0008 ppm	-0.0009 ppm	0.0007 ppm	0.0261 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	-0.0018 ppm	0.0004 ppm	-0.0008 ppm	0.0008 ppm	0.0221 ppm	-0.0002 ppm
Recovery Percentage 1	-1.653 %	-10.407 %	6.387 %	-10.628 %	1.264 %	0.718 %	6.743 %
Concentration RSD	99.9 %	12.8 %	32.9 %	33.5 %	39.3 %	60.5 %	409.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0120 ppm	0.0002 ppm	-0.0006 ppm	-0.0026 ppm	0.0005 ppm	0.0003 ppm	0.0049 ppm
Concentration per Run 1	-0.0130 ppm	0.0002 ppm	-0.0002 ppm	-0.0062 ppm	0.0011 ppm	0.0001 ppm	0.0079 ppm
Concentration per Run 2	-0.0093 ppm	0.0003 ppm	-0.0007 ppm	-0.0020 ppm	0.0001 ppm	-0.0006 ppm	0.0024 ppm
Concentration per Run 3	-0.0137 ppm	0.0000 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm	0.0013 ppm	0.0045 ppm
Recovery Percentage 1	-12.009 %	1.637 %	-1.103 %	-0.132 %	2.166 %	2.827 %	9.810 %
Concentration RSD	19.5 %	97.8 %	48.1 %	123.3 %	92.3 %	348.9 %	56.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	0.1816 ppm	0.0017 ppm	0.0000 ppm	**19.9292 ppm**	-0.0005 ppm	-0.0016 ppm
Concentration per Run 1	-0.0011 ppm	0.1788 ppm	0.0018 ppm	0.0000 ppm	19.8945 ppm	-0.0011 ppm	-0.0013 ppm
Concentration per Run 2	0.0044 ppm	0.1809 ppm	0.0025 ppm	0.0001 ppm	19.9704 ppm	0.0006 ppm	-0.0018 ppm
Concentration per Run 3	0.0030 ppm	0.1850 ppm	0.0007 ppm	0.0000 ppm	19.9226 ppm	-0.0009 ppm	-0.0017 ppm
Recovery Percentage 1	20.766 %	36.311 %	3.352 %	0.225 %	199,291.784 %	-2.419 %	-16.069 %
Concentration RSD	137.1 %	1.8 %	53.7 %	248.1 %	**0.2 %**	188.2 %	17.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	102.4568 %	102.2130 %	110.1293 %	100.7661 %	101.5791 %	101.5552 %
Concentration per Run 1	0.0004 ppm	102.9255 %	101.6154 %	110.2378 %	101.0001 %	101.2767 %	102.2411 %
Concentration per Run 2	0.0001 ppm	102.7235 %	102.0494 %	110.2464 %	101.3095 %	101.3344 %	101.3147 %
Concentration per Run 3	-0.0002 ppm	101.7214 %	102.9742 %	109.9035 %	99.9887 %	102.1262 %	101.1097 %
Recovery Percentage 1	1.680 %						
Concentration RSD	382.3 %	0.6 %	0.7 %	0.2 %	0.7 %	0.5 %	0.6 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LDR 500 Na pass
Analysis started at: 6/17/2024 4:59:34 PM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0056 ppm	0.0019 ppm	-0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	-0.0002 ppm	0.0023 ppm	0.0038 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0048 ppm	0.0024 ppm	-0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0082 ppm
Concentration per Run 3	0.0000 ppm	0.0099 ppm	-0.0004 ppm	-0.0024 ppm	0.0001 ppm	-0.0001 ppm	0.0091 ppm
Concentration RSD	543.2 %	68.5 %	109.2 %	53.3 %	86.9 %	239.8 %	60.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0007 ppm	0.0002 ppm	0.0003 ppm	0.0034 ppm	0.0979 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0034 ppm	0.0916 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm	0.0035 ppm	0.1060 ppm	0.0008 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0034 ppm	0.0961 ppm	0.0001 ppm
Concentration RSD	37.9 %	61.4 %	36.0 %	42.7 %	1.6 %	7.5 %	110.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0014 ppm	0.0003 ppm	-0.0011 ppm	511.9541 ppm	0.0001 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 1	-0.0005 ppm	0.0003 ppm	-0.0009 ppm	511.6026 ppm	0.0004 ppm	0.0010 ppm	0.0014 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	-0.0008 ppm	513.5765 ppm	0.0006 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 3	0.0025 ppm	0.0002 ppm	-0.0016 ppm	510.6831 ppm	-0.0007 ppm	-0.0004 ppm	0.0013 ppm
Concentration RSD	115.8 %	25.0 %	39.6 %	0.3 %	722.5 %	1,623.2 %	27.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0149 ppm	-0.0019 ppm	0.0000 ppm	0.0012 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0140 ppm	-0.0023 ppm	0.0000 ppm	0.0014 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 2	-0.0014 ppm	0.0138 ppm	-0.0017 ppm	0.0001 ppm	0.0011 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0017 ppm	0.0168 ppm	-0.0017 ppm	0.0000 ppm	0.0011 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	58,515.6 %	11.1 %	18.9 %	77.4 %	17.3 %	184.9 %	281.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	91.4347 %	97.9415 %	85.0465 %	89.3162 %	97.6499 %	92.3189 %
Concentration per Run 1	0.0003 ppm	91.8661 %	98.0815 %	85.5793 %	89.7149 %	97.9876 %	93.2910 %
Concentration per Run 2	0.0003 ppm	90.7173 %	98.4791 %	85.7041 %	88.7204 %	97.9855 %	92.6134 %
Concentration per Run 3	0.0005 ppm	91.7207 %	97.2639 %	83.8561 %	89.5134 %	96.9767 %	91.0522 %
Concentration RSD	38.0 %	0.7 %	0.6 %	1.2 %	0.6 %	0.6 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LDR 20 Si pass
Analysis started at: 6/17/2024 5:03:14 PM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0113 ppm	0.0005 ppm	-0.0078 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	-0.0004 ppm	0.0147 ppm	-0.0010 ppm	-0.0077 ppm	0.0001 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 2	0.0004 ppm	0.0109 ppm	0.0017 ppm	-0.0069 ppm	0.0002 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 3	-0.0009 ppm	0.0084 ppm	0.0009 ppm	-0.0087 ppm	0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration RSD	206.8 %	27.9 %	261.7 %	11.5 %	41.4 %	551.3 %	34.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0038 ppm	0.0328 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0039 ppm	0.0475 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0053 ppm	0.0341 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	-0.0004 ppm	0.0004 ppm	0.0024 ppm	0.0168 ppm	-0.0004 ppm
Concentration RSD	594.5 %	157.2 %	175.6 %	46.6 %	37.6 %	47.0 %	148.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0002 ppm	-0.0010 ppm	0.0108 ppm	0.0003 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0002 ppm	-0.0012 ppm	0.0094 ppm	0.0004 ppm	0.0016 ppm	-0.0011 ppm
Concentration per Run 2	0.0016 ppm	0.0001 ppm	-0.0010 ppm	0.0085 ppm	0.0004 ppm	0.0018 ppm	0.0007 ppm
Concentration per Run 3	0.0010 ppm	0.0002 ppm	-0.0009 ppm	0.0146 ppm	0.0000 ppm	0.0018 ppm	0.0001 ppm
Concentration RSD	124.2 %	22.6 %	16.4 %	30.6 %	81.7 %	5.8 %	1,015.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	20.1476 ppm	-0.0013 ppm	0.0000 ppm	0.0042 ppm	-0.0011 ppm	-0.0005 ppm
Concentration per Run 1	0.0010 ppm	20.0766 ppm	-0.0003 ppm	-0.0001 ppm	0.0041 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	0.0028 ppm	19.8787 ppm	-0.0014 ppm	0.0000 ppm	0.0044 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0022 ppm	20.4875 ppm	-0.0023 ppm	0.0002 ppm	0.0041 ppm	-0.0024 ppm	-0.0006 ppm
Concentration RSD	44.4 %	1.5 %	74.8 %	230.3 %	4.0 %	99.1 %	28.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	106.3657 %	103.9559 %	104.4429 %	105.4944 %	103.7371 %	104.7934 %
Concentration per Run 1	0.0003 ppm	107.8545 %	104.2929 %	104.7928 %	107.0497 %	104.3698 %	105.3674 %
Concentration per Run 2	0.0000 ppm	105.1677 %	104.1040 %	104.5733 %	104.3844 %	103.7146 %	104.7885 %
Concentration per Run 3	0.0000 ppm	106.0749 %	103.4708 %	103.9628 %	105.0492 %	103.1269 %	104.2242 %
Concentration RSD	157.1 %	1.3 %	0.4 %	0.4 %	1.3 %	0.6 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LDR 20 As pass
Analysis started at: 6/17/2024 5:06:44 PM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0048 ppm	19.6653 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0078 ppm	19.5692 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0002 ppm	0.0035 ppm	19.7501 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	0.0002 ppm	0.0030 ppm	19.6766 ppm	-0.0015 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	416.8 %	55.7 %	0.5 %	277.8 %	58.0 %	230.0 %	34.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0041 ppm	0.0319 ppm	0.0000 ppm
Concentration per Run 1	-0.0008 ppm	0.0006 ppm	-0.0002 ppm	0.0004 ppm	0.0035 ppm	0.0531 ppm	0.0003 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0041 ppm	0.0301 ppm	-0.0003 ppm
Concentration per Run 3	-0.0006 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0046 ppm	0.0124 ppm	0.0000 ppm
Concentration RSD	18.2 %	237.3 %	55.3 %	160.2 %	13.0 %	64.1 %	1,851.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0021 ppm	0.0000 ppm	-0.0009 ppm	0.0085 ppm	0.0005 ppm	0.0008 ppm	0.0010 ppm
Concentration per Run 1	0.0022 ppm	0.0000 ppm	-0.0009 ppm	0.0072 ppm	-0.0007 ppm	0.0007 ppm	0.0019 ppm
Concentration per Run 2	0.0017 ppm	0.0000 ppm	-0.0008 ppm	0.0107 ppm	0.0015 ppm	0.0012 ppm	0.0011 ppm
Concentration per Run 3	0.0023 ppm	-0.0002 ppm	-0.0011 ppm	0.0077 ppm	0.0006 ppm	0.0004 ppm	0.0001 ppm
Concentration RSD	16.0 %	278.0 %	19.0 %	22.1 %	242.3 %	48.1 %	83.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	0.0156 ppm	-0.0014 ppm	0.0001 ppm	-0.0001 ppm	-0.0024 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0177 ppm	-0.0019 ppm	0.0000 ppm	-0.0004 ppm	-0.0025 ppm	0.0001 ppm
Concentration per Run 2	0.0045 ppm	0.0153 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	-0.0023 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0139 ppm	-0.0016 ppm	0.0001 ppm	0.0001 ppm	-0.0024 ppm	-0.0005 ppm
Concentration RSD	177.1 %	12.3 %	55.1 %	77.3 %	296.0 %	3.8 %	212.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	104.0883 %	102.1088 %	104.5617 %	103.5758 %	101.5442 %	104.6391 %
Concentration per Run 1	-0.0003 ppm	104.2507 %	104.0661 %	105.5549 %	103.5546 %	103.0391 %	105.7226 %
Concentration per Run 2	-0.0004 ppm	104.1530 %	100.6065 %	103.0167 %	103.6615 %	99.9246 %	103.3099 %
Concentration per Run 3	-0.0002 ppm	103.8613 %	101.6538 %	105.1135 %	103.5111 %	101.6687 %	104.8849 %
Concentration RSD	30.3 %	0.2 %	1.7 %	1.3 %	0.1 %	1.5 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LDR 10 Sn pass
Analysis started at: 6/17/2024 5:10:14 PM
Rack 1
Vial 9
Comment As RSD

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0022 ppm	0.0034 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 1	0.0003 ppm	0.0020 ppm	0.0034 ppm	-0.0024 ppm	0.0001 ppm	0.0001 ppm	0.0057 ppm
Concentration per Run 2	-0.0002 ppm	0.0039 ppm	0.0045 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	0.0022 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0067 ppm
Concentration RSD	1,184.9 %	71.8 %	34.3 %	146.4 %	157.2 %	564.2 %	10.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0031 ppm	0.0246 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0046 ppm	0.0278 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0035 ppm	0.0177 ppm	0.0025 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0283 ppm	0.0005 ppm
Concentration RSD	140.3 %	254.6 %	331.5 %	56.5 %	59.7 %	24.4 %	112.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0001 ppm	-0.0010 ppm	0.0026 ppm	0.0008 ppm	0.0011 ppm	0.0047 ppm
Concentration per Run 1	0.0010 ppm	0.0000 ppm	-0.0011 ppm	0.0024 ppm	0.0010 ppm	0.0024 ppm	0.0052 ppm
Concentration per Run 2	0.0011 ppm	0.0002 ppm	-0.0009 ppm	-0.0018 ppm	0.0010 ppm	0.0003 ppm	0.0053 ppm
Concentration per Run 3	0.0012 ppm	0.0001 ppm	-0.0011 ppm	0.0073 ppm	0.0004 ppm	0.0006 ppm	0.0037 ppm
Concentration RSD	8.4 %	76.8 %	14.4 %	174.5 %	40.3 %	108.4 %	18.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0644 ppm	10.1914 ppm	0.0000 ppm	0.0019 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	0.0010 ppm	0.0640 ppm	10.2148 ppm	-0.0002 ppm	0.0018 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0636 ppm	10.2431 ppm	0.0001 ppm	0.0016 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	0.0656 ppm	10.1163 ppm	0.0000 ppm	0.0021 ppm	-0.0016 ppm	-0.0001 ppm
Concentration RSD	1,220.5 %	1.6 %	0.7 %	1,504.0 %	14.7 %	16.6 %	85.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	103.7360 %	103.3205 %	105.5683 %	103.1674 %	102.3136 %	104.5117 %
Concentration per Run 1	0.0000 ppm	102.9608 %	103.1749 %	104.8483 %	102.4558 %	102.4366 %	103.5532 %
Concentration per Run 2	0.0001 ppm	102.6242 %	104.6261 %	105.8098 %	102.1413 %	103.1380 %	105.2128 %
Concentration per Run 3	-0.0001 ppm	105.6231 %	102.1605 %	106.0467 %	104.9052 %	101.3662 %	104.7691 %
Concentration RSD	11,190.7 %	1.6 %	1.2 %	0.6 %	1.5 %	0.9 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: xIEC 20 Cr Tl-
Analysis started at: 6/17/2024 5:21:10 PM
Rack 1
Vial 10
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0084 ppm	0.0018 ppm	-0.0010 ppm	0.0002 ppm	0.0000 ppm	-0.0143 ppm
Concentration per Run 1	-0.0003 ppm	0.0122 ppm	0.0011 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0163 ppm
Concentration per Run 2	-0.0004 ppm	0.0056 ppm	0.0026 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0131 ppm
Concentration per Run 3	-0.0001 ppm	0.0073 ppm	0.0016 ppm	-0.0023 ppm	0.0001 ppm	0.0000 ppm	-0.0134 ppm
Recovery Percentage 1	-3.927 %	8.352 %	35.635 %	-3.489 %	2.191 %	-0.243 %	-14.261 %
Concentration RSD	61.0 %	41.1 %	41.2 %	112.8 %	47.1 %	512.1 %	12.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0008 ppm	**20.1177 ppm**	-0.0006 ppm	0.0039 ppm	0.0215 ppm	0.0002 ppm
Concentration per Run 1	-0.0003 ppm	-0.0008 ppm	20.3031 ppm	-0.0007 ppm	0.0028 ppm	0.0194 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0009 ppm	19.9443 ppm	-0.0003 ppm	0.0041 ppm	0.0362 ppm	0.0006 ppm
Concentration per Run 3	-0.0005 ppm	-0.0008 ppm	20.1057 ppm	-0.0007 ppm	0.0047 ppm	0.0090 ppm	0.0001 ppm
Recovery Percentage 1	-6.566 %	-4.066 %	201,176.971 %	-5.707 %	7.705 %	0.862 %	4.838 %
Concentration RSD	38.2 %	9.6 %	**0.9 %**	48.6 %	25.1 %	63.7 %	117.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0024 ppm	0.0001 ppm	-0.0001 ppm	-0.0009 ppm	0.0007 ppm	-0.0008 ppm	-0.0040 ppm
Concentration per Run 1	-0.0022 ppm	0.0001 ppm	-0.0004 ppm	-0.0018 ppm	0.0008 ppm	-0.0021 ppm	-0.0054 ppm
Concentration per Run 2	-0.0037 ppm	0.0000 ppm	0.0001 ppm	-0.0020 ppm	0.0006 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 3	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0009 ppm	-0.0001 ppm	-0.0076 ppm
Recovery Percentage 1	-2.386 %	0.807 %	-0.298 %	-0.046 %	2.976 %	-8.095 %	-7.955 %
Concentration RSD	51.6 %	73.0 %	176.1 %	191.2 %	22.1 %	136.2 %	114.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0152 ppm	0.0012 ppm	0.0000 ppm	-0.0006 ppm	0.0008 ppm	-0.0016 ppm
Concentration per Run 1	0.0013 ppm	0.0134 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0011 ppm	-0.0015 ppm
Concentration per Run 2	0.0019 ppm	0.0157 ppm	0.0026 ppm	-0.0001 ppm	-0.0004 ppm	0.0010 ppm	-0.0016 ppm
Concentration per Run 3	0.0005 ppm	0.0164 ppm	0.0007 ppm	0.0000 ppm	-0.0009 ppm	0.0004 ppm	-0.0018 ppm
Recovery Percentage 1	12.162 %	3.034 %	2.370 %	-0.188 %	-5.690 %	4.148 %	-16.295 %
Concentration RSD	56.7 %	10.5 %	109.1 %	197.3 %	52.9 %	46.8 %	9.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	105.2163 %	102.2918 %	104.2155 %	104.7691 %	102.0185 %	104.3974 %
Concentration per Run 1	-0.0008 ppm	105.1512 %	103.1461 %	103.3269 %	104.6989 %	102.7461 %	103.5348 %
Concentration per Run 2	-0.0010 ppm	106.1546 %	101.0788 %	103.9893 %	105.8713 %	100.7453 %	104.0648 %
Concentration per Run 3	-0.0008 ppm	104.3431 %	102.6506 %	105.3303 %	103.7370 %	102.5640 %	105.5925 %
Recovery Percentage 1	-16.918 %						
Concentration RSD	13.1 %	0.9 %	1.1 %	1.0 %	1.0 %	1.1 %	1.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: IEC 20 Mn TI-
Analysis started at: 6/17/2024 5:27:58 PM
Rack 1
Vial 11
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0071 ppm	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	0.0007 ppm	0.0107 ppm	-0.0013 ppm	-0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	0.0001 ppm	0.0073 ppm	0.0021 ppm	-0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 3	0.0007 ppm	0.0032 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Recovery Percentage 1	7.202 %	7.075 %	9.803 %	-3.088 %	0.980 %	-0.292 %	4.224 %
Concentration RSD	69.6 %	52.8 %	345.1 %	119.8 %	6.8 %	111.3 %	44.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0008 ppm	0.0002 ppm	0.0496 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0002 ppm	-0.0009 ppm	-0.0001 ppm	0.0553 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0008 ppm	-0.0008 ppm	0.0012 ppm	0.0504 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0007 ppm	-0.0006 ppm	0.0431 ppm	0.0009 ppm
Recovery Percentage 1	-1.105 %	1.179 %	-0.504 %	-8.094 %	0.306 %	1.984 %	14.532 %
Concentration RSD	77.3 %	152.0 %	1,300.9 %	12.2 %	600.4 %	12.3 %	128.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0049 ppm	19.9219 ppm	-0.0028 ppm	0.0127 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 1	-0.0055 ppm	20.0799 ppm	-0.0032 ppm	0.0155 ppm	-0.0013 ppm	-0.0008 ppm	0.0013 ppm
Concentration per Run 2	-0.0044 ppm	19.8853 ppm	-0.0024 ppm	0.0150 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	-0.0049 ppm	19.8006 ppm	-0.0029 ppm	0.0077 ppm	0.0007 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-4.918 %	199,219.499 %	-5.667 %	0.637 %	-0.822 %	-2.476 %	1.085 %
Concentration RSD	11.6 %	0.7 %	13.6 %	34.4 %	487.6 %	193.1 %	254.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0093 ppm	0.0117 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0010 ppm
Concentration per Run 1	-0.0063 ppm	0.0111 ppm	-0.0018 ppm	0.0000 ppm	0.0002 ppm	-0.0012 ppm	-0.0009 ppm
Concentration per Run 2	-0.0075 ppm	0.0128 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	-0.0013 ppm
Concentration per Run 3	-0.0140 ppm	0.0112 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm
Recovery Percentage 1	-92.617 %	2.338 %	-0.928 %	-0.069 %	0.682 %	-2.509 %	-10.422 %
Concentration RSD	44.4 %	8.1 %	257.9 %	250.0 %	213.3 %	157.7 %	25.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	105.8423 %	101.0784 %	103.8097 %	105.6895 %	100.9818 %	103.9228 %
Concentration per Run 1	0.0004 ppm	106.2270 %	101.1281 %	103.5459 %	106.1717 %	101.2720 %	103.9207 %
Concentration per Run 2	0.0003 ppm	105.5556 %	101.3604 %	104.5502 %	105.3478 %	101.5645 %	104.6818 %
Concentration per Run 3	0.0001 ppm	105.7443 %	100.7467 %	103.3332 %	105.5489 %	100.1091 %	103.1660 %
Recovery Percentage 1	4.895 %						
Concentration RSD	64.0 %	0.3 %	0.3 %	0.6 %	0.4 %	0.8 %	0.7 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 5:55:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5220 ppm	0.5109 ppm	0.4907 ppm	0.5135 ppm	0.5220 ppm	0.5281 ppm	0.5086 ppm
Concentration per Run 1	0.5201 ppm	0.5052 ppm	0.4986 ppm	0.5130 ppm	0.5221 ppm	0.5284 ppm	0.5058 ppm
Concentration per Run 2	0.5266 ppm	0.5150 ppm	0.4835 ppm	0.5127 ppm	0.5213 ppm	0.5270 ppm	0.5102 ppm
Concentration per Run 3	0.5192 ppm	0.5125 ppm	0.4898 ppm	0.5147 ppm	0.5225 ppm	0.5290 ppm	0.5097 ppm
Recovery Percentage 1	104.399 %	102.176 %	98.131 %	102.692 %	104.398 %	105.626 %	101.714 %
Concentration RSD	0.8 %	1.0 %	1.5 %	0.2 %	0.1 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5054 ppm	0.5188 ppm	0.5001 ppm	0.5100 ppm	0.5264 ppm	5.4063 ppm	0.5256 ppm
Concentration per Run 1	0.5101 ppm	0.5201 ppm	0.4980 ppm	0.5084 ppm	0.5282 ppm	5.4442 ppm	0.5258 ppm
Concentration per Run 2	0.5070 ppm	0.5230 ppm	0.5054 ppm	0.5147 ppm	0.5262 ppm	5.3902 ppm	0.5244 ppm
Concentration per Run 3	0.4991 ppm	0.5133 ppm	0.4970 ppm	0.5068 ppm	0.5249 ppm	5.3847 ppm	0.5265 ppm
Recovery Percentage 1	101.073 %	103.758 %	100.025 %	101.998 %	105.287 %	108.127 %	105.111 %
Concentration RSD	1.1 %	1.0 %	0.9 %	0.8 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4954 ppm	0.5023 ppm	0.5017 ppm	10.2624 ppm	0.5141 ppm	0.5081 ppm	0.5218 ppm
Concentration per Run 1	0.4940 ppm	0.5019 ppm	0.4965 ppm	10.2691 ppm	0.5110 ppm	0.5157 ppm	0.5287 ppm
Concentration per Run 2	0.5020 ppm	0.5008 ppm	0.5060 ppm	10.2253 ppm	0.5205 ppm	0.5029 ppm	0.5239 ppm
Concentration per Run 3	0.4902 ppm	0.5042 ppm	0.5025 ppm	10.2927 ppm	0.5109 ppm	0.5058 ppm	0.5126 ppm
Recovery Percentage 1	99.075 %	100.461 %	100.332 %	102.624 %	102.827 %	101.627 %	104.350 %
Concentration RSD	1.2 %	0.3 %	1.0 %	0.3 %	1.1 %	1.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4993 ppm	5.7974 ppm	0.5375 ppm	0.5221 ppm	0.5101 ppm	0.5101 ppm	0.4962 ppm
Concentration per Run 1	0.5047 ppm	5.7769 ppm	0.5380 ppm	0.5213 ppm	0.5087 ppm	0.5181 ppm	0.4930 ppm
Concentration per Run 2	0.4936 ppm	5.8456 ppm	0.5388 ppm	0.5225 ppm	0.5156 ppm	0.5028 ppm	0.5024 ppm
Concentration per Run 3	0.4995 ppm	5.7698 ppm	0.5357 ppm	0.5225 ppm	0.5060 ppm	0.5093 ppm	0.4932 ppm
Recovery Percentage 1	99.859 %	110.427 %	107.495 %	104.419 %	102.016 %	102.015 %	99.237 %
Concentration RSD	1.1 %	0.7 %	0.3 %	0.1 %	1.0 %	1.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5231 ppm	101.6142 %	101.0849 %	100.8257 %	99.5033 %	100.2988 %	100.8865 %
Concentration per Run 1	0.5214 ppm	101.8393 %	100.9809 %	100.2410 %	99.7128 %	100.0332 %	100.2795 %
Concentration per Run 2	0.5288 ppm	100.4849 %	101.2852 %	102.7874 %	98.0109 %	100.5514 %	103.0113 %
Concentration per Run 3	0.5190 ppm	102.5185 %	100.9885 %	99.4487 %	100.7862 %	100.3117 %	99.3688 %
Recovery Percentage 1	104.614 %						
Concentration RSD	1.0 %	1.0 %	0.2 %	1.7 %	1.4 %	0.3 %	1.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 5:59:11 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0090 ppm	0.0013 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	0.0000 ppm	0.0090 ppm	-0.0006 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 2	-0.0002 ppm	0.0104 ppm	0.0035 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 3	0.0000 ppm	0.0076 ppm	0.0009 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0030 ppm
Recovery Percentage 1	-0.961 %	8.964 %	25.507 %	-2.155 %	0.602 %	-0.001 %	6.546 %
Concentration RSD	224.2 %	15.6 %	164.6 %	161.1 %	162.9 %	121,370.9 %	48.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0022 ppm	0.0267 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0006 ppm	0.0035 ppm	0.0305 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0007 ppm	0.0018 ppm	0.0317 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0179 ppm	-0.0005 ppm
Recovery Percentage 1	-0.074 %	-1.217 %	-1.862 %	6.270 %	4.403 %	1.068 %	2.100 %
Concentration RSD	1,634.1 %	30.3 %	143.8 %	12.1 %	50.9 %	28.8 %	670.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0012 ppm	-0.0004 ppm	0.0003 ppm	0.0004 ppm	0.0038 ppm
Concentration per Run 1	0.0013 ppm	0.0004 ppm	0.0012 ppm	0.0046 ppm	0.0000 ppm	-0.0006 ppm	0.0035 ppm
Concentration per Run 2	-0.0012 ppm	-0.0003 ppm	0.0011 ppm	-0.0016 ppm	0.0009 ppm	0.0016 ppm	0.0062 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0012 ppm	-0.0041 ppm	-0.0001 ppm	0.0002 ppm	0.0017 ppm
Recovery Percentage 1	-0.070 %	0.485 %	2.357 %	-0.020 %	1.022 %	3.872 %	7.580 %
Concentration RSD	1,785.8 %	715.2 %	5.2 %	1,154.8 %	216.1 %	298.9 %	59.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0090 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	-0.0099 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0071 ppm	-0.0005 ppm	0.0001 ppm	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	-0.0006 ppm	-0.0099 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm
Recovery Percentage 1	3.911 %	-1.791 %	0.005 %	0.081 %	1.321 %	-2.470 %	-1.237 %
Concentration RSD	224.6 %	17.6 %	19,144.0 %	1,665.0 %	229.5 %	125.0 %	15.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	104.0642 %	101.7871 %	104.0201 %	104.5745 %	102.3120 %	104.3289 %
Concentration per Run 1	-0.0001 ppm	103.8562 %	101.6915 %	104.1462 %	104.7799 %	101.8547 %	104.5035 %
Concentration per Run 2	-0.0002 ppm	104.2131 %	101.5679 %	102.9063 %	104.4683 %	102.3721 %	103.3944 %
Concentration per Run 3	-0.0005 ppm	104.1233 %	102.1019 %	105.0078 %	104.4753 %	102.7091 %	105.0887 %
Recovery Percentage 1	-5.468 %						
Concentration RSD	70.8 %	0.2 %	0.3 %	1.0 %	0.2 %	0.4 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935350-1 WG1935350
Analysis started at: 6/17/2024 7:12:07 PM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0087 ppm	-0.0003 ppm	-0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0136 ppm
Concentration per Run 1	-0.0004 ppm	0.0104 ppm	-0.0017 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 2	0.0005 ppm	0.0094 ppm	-0.0015 ppm	-0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 3	-0.0001 ppm	0.0061 ppm	0.0022 ppm	-0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0143 ppm
Recovery Percentage 1	0.306 %	8.671 %	-6.609 %	-7.269 %	1.083 %	0.256 %	13.563 %
Concentration RSD	2,022.0 %	26.1 %	672.0 %	50.7 %	70.1 %	269.7 %	20.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0230 ppm	0.0224 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0004 ppm	0.0243 ppm	0.0168 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0212 ppm	0.0423 ppm	0.0013 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0000 ppm	0.0235 ppm	0.0082 ppm	0.0013 ppm
Recovery Percentage 1	-0.065 %	-2.004 %	3.751 %	1.854 %	46.023 %	0.898 %	28.456 %
Concentration RSD	1,431.5 %	12.6 %	128.7 %	118.0 %	7.0 %	78.9 %	14.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0037 ppm	0.0007 ppm	-0.0008 ppm	0.0260 ppm	0.0007 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0010 ppm	0.0007 ppm	-0.0009 ppm	0.0265 ppm	0.0010 ppm	-0.0004 ppm	0.0046 ppm
Concentration per Run 2	0.0047 ppm	0.0008 ppm	-0.0007 ppm	0.0252 ppm	0.0008 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 3	0.0053 ppm	0.0007 ppm	-0.0008 ppm	0.0263 ppm	0.0003 ppm	0.0002 ppm	-0.0010 ppm
Recovery Percentage 1	3.701 %	7.001 %	-1.649 %	1.302 %	2.820 %	-0.134 %	4.908 %
Concentration RSD	62.8 %	7.4 %	10.1 %	2.7 %	49.8 %	2,514.6 %	124.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0033 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	-0.0022 ppm	-0.0001 ppm
Concentration per Run 2	0.0017 ppm	-0.0017 ppm	0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0020 ppm	-0.0057 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0018 ppm	-0.0001 ppm
Recovery Percentage 1	11.651 %	-0.269 %	0.616 %	0.424 %	0.608 %	-9.746 %	-1.877 %
Concentration RSD	98.7 %	335.5 %	6.6 %	114.9 %	805.2 %	10.7 %	53.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	103.3405 %	103.1582 %	104.5878 %	101.8279 %	103.0102 %	104.3570 %
Concentration per Run 1	0.0022 ppm	103.5521 %	103.0047 %	104.7043 %	101.4789 %	103.0515 %	104.3751 %
Concentration per Run 2	0.0022 ppm	103.5727 %	103.8357 %	104.5993 %	102.3847 %	103.6135 %	104.2703 %
Concentration per Run 3	0.0026 ppm	102.8968 %	102.6342 %	104.4597 %	101.6199 %	102.3655 %	104.4257 %
Recovery Percentage 1	46.985 %						
Concentration RSD	7.5 %	0.4 %	0.6 %	0.1 %	0.5 %	0.6 %	0.1 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935350-2d2 WG1935350
Analysis started at: 6/17/2024 7:15:47 PM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3135 ppm	16.6847 ppm	1.1536 ppm	0.8789 ppm	1.1823 ppm	0.6309 ppm	18.7064 ppm
Concentration per Run 1	0.3124 ppm	16.6372 ppm	1.1621 ppm	0.8753 ppm	1.1848 ppm	0.6289 ppm	18.5697 ppm
Concentration per Run 2	0.3114 ppm	16.6246 ppm	1.1534 ppm	0.8745 ppm	1.1772 ppm	0.6296 ppm	18.6387 ppm
Concentration per Run 3	0.3166 ppm	16.7924 ppm	1.1452 ppm	0.8870 ppm	1.1849 ppm	0.6342 ppm	18.9107 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.8 %	0.4 %	0.5 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7808 ppm	0.3087 ppm	0.6693 ppm	0.7745 ppm	20.8649 ppm	4.1622 ppm	0.4851 ppm
Concentration per Run 1	0.7789 ppm	0.3094 ppm	0.6656 ppm	0.7733 ppm	20.6997 ppm	4.1697 ppm	0.4860 ppm
Concentration per Run 2	0.7741 ppm	0.3063 ppm	0.6647 ppm	0.7712 ppm	20.8229 ppm	4.1572 ppm	0.4827 ppm
Concentration per Run 3	0.7895 ppm	0.3104 ppm	0.6774 ppm	0.7790 ppm	21.0722 ppm	4.1598 ppm	0.4864 ppm
Concentration RSD	1.0 %	0.7 %	1.1 %	0.5 %	0.9 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3348 ppm	1.9480 ppm	0.5127 ppm	6.5496 ppm	1.1831 ppm	0.3536 ppm	0.8304 ppm
Concentration per Run 1	5.3203 ppm	1.9327 ppm	0.5052 ppm	6.5441 ppm	1.1767 ppm	0.3562 ppm	0.8304 ppm
Concentration per Run 2	5.3045 ppm	1.9512 ppm	0.5112 ppm	6.5295 ppm	1.1755 ppm	0.3531 ppm	0.8281 ppm
Concentration per Run 3	5.3795 ppm	1.9602 ppm	0.5218 ppm	6.5752 ppm	1.1972 ppm	0.3514 ppm	0.8325 ppm
Concentration RSD	0.7 %	0.7 %	1.6 %	0.4 %	1.0 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6228 ppm	5.4282 ppm	0.2896 ppm	0.5136 ppm	1.0891 ppm	0.7663 ppm	0.3767 ppm
Concentration per Run 1	0.6214 ppm	5.4497 ppm	0.2866 ppm	0.5147 ppm	1.0846 ppm	0.7674 ppm	0.3759 ppm
Concentration per Run 2	0.6285 ppm	5.2059 ppm	0.2907 ppm	0.5113 ppm	1.0866 ppm	0.7684 ppm	0.3749 ppm
Concentration per Run 3	0.6186 ppm	5.6291 ppm	0.2913 ppm	0.5147 ppm	1.0961 ppm	0.7631 ppm	0.3792 ppm
Concentration RSD	0.8 %	3.9 %	0.9 %	0.4 %	0.6 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6109 ppm	105.1116 %	104.8021 %	101.6760 %	108.9660 %	109.8129 %	109.1435 %
Concentration per Run 1	0.6083 ppm	105.7061 %	106.3736 %	101.6725 %	109.6091 %	111.6023 %	109.2534 %
Concentration per Run 2	0.6075 ppm	105.5965 %	103.8055 %	100.9193 %	109.7235 %	108.0726 %	108.2569 %
Concentration per Run 3	0.6169 ppm	104.0323 %	104.2271 %	102.4361 %	107.5655 %	109.7638 %	109.9201 %
Concentration RSD	0.8 %	0.9 %	1.3 %	0.7 %	1.1 %	1.6 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935350-3d2 WG1935350
Analysis started at: 6/17/2024 7:19:14 PM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3116 ppm	17.1990 ppm	1.1396 ppm	0.8853 ppm	1.1284 ppm	0.6406 ppm	18.7691 ppm
Concentration per Run 1	0.3117 ppm	17.2331 ppm	1.1434 ppm	0.8838 ppm	1.1273 ppm	0.6411 ppm	18.7932 ppm
Concentration per Run 2	0.3126 ppm	17.1871 ppm	1.1310 ppm	0.8839 ppm	1.1282 ppm	0.6405 ppm	18.8267 ppm
Concentration per Run 3	0.3104 ppm	17.1769 ppm	1.1443 ppm	0.8882 ppm	1.1296 ppm	0.6402 ppm	18.6874 ppm
Concentration RSD	0.3 %	0.2 %	0.7 %	0.3 %	0.1 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8072 ppm	0.3075 ppm	0.6583 ppm	0.7761 ppm	21.4372 ppm	4.2585 ppm	0.4895 ppm
Concentration per Run 1	0.8042 ppm	0.3050 ppm	0.6598 ppm	0.7739 ppm	21.4776 ppm	4.2924 ppm	0.4885 ppm
Concentration per Run 2	0.8090 ppm	0.3079 ppm	0.6585 ppm	0.7752 ppm	21.3603 ppm	4.2491 ppm	0.4874 ppm
Concentration per Run 3	0.8082 ppm	0.3096 ppm	0.6566 ppm	0.7790 ppm	21.4738 ppm	4.2340 ppm	0.4927 ppm
Concentration RSD	0.3 %	0.8 %	0.2 %	0.3 %	0.3 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3793 ppm	2.0762 ppm	0.5075 ppm	6.5369 ppm	1.1854 ppm	0.3546 ppm	0.8081 ppm
Concentration per Run 1	5.3734 ppm	2.0753 ppm	0.4999 ppm	6.5650 ppm	1.1864 ppm	0.3532 ppm	0.8031 ppm
Concentration per Run 2	5.3877 ppm	2.0844 ppm	0.5071 ppm	6.5115 ppm	1.1848 ppm	0.3549 ppm	0.8105 ppm
Concentration per Run 3	5.3769 ppm	2.0687 ppm	0.5155 ppm	6.5341 ppm	1.1849 ppm	0.3558 ppm	0.8108 ppm
Concentration RSD	0.1 %	0.4 %	1.5 %	0.4 %	0.1 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6083 ppm	5.7529 ppm	0.2905 ppm	0.4934 ppm	1.1098 ppm	0.8132 ppm	0.3751 ppm
Concentration per Run 1	0.6126 ppm	5.6288 ppm	0.2904 ppm	0.4931 ppm	1.1121 ppm	0.8169 ppm	0.3729 ppm
Concentration per Run 2	0.6016 ppm	5.7172 ppm	0.2903 ppm	0.4949 ppm	1.1099 ppm	0.8099 ppm	0.3758 ppm
Concentration per Run 3	0.6108 ppm	5.9127 ppm	0.2909 ppm	0.4924 ppm	1.1073 ppm	0.8128 ppm	0.3764 ppm
Concentration RSD	1.0 %	2.5 %	0.1 %	0.3 %	0.2 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6100 ppm	106.2706 %	105.0252 %	102.7283 %	110.5893 %	110.0365 %	110.1704 %
Concentration per Run 1	0.6111 ppm	106.2928 %	104.2648 %	103.1444 %	110.3838 %	109.2686 %	110.3675 %
Concentration per Run 2	0.6077 ppm	106.4539 %	104.7731 %	102.1771 %	110.7044 %	110.0592 %	109.7912 %
Concentration per Run 3	0.6113 ppm	106.0651 %	106.0377 %	102.8636 %	110.6796 %	110.7815 %	110.3524 %
Concentration RSD	0.3 %	0.2 %	0.9 %	0.5 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: TEST IPS 0746 ADG
Analysis started at: 6/17/2024 7:22:42 PM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0560 ppm	1.9767 ppm	-0.0007 ppm	-0.0021 ppm	2.0540 ppm	0.0523 ppm	-0.0048 ppm
Concentration per Run 1	0.0560 ppm	2.0051 ppm	0.0009 ppm	-0.0022 ppm	2.0785 ppm	0.0532 ppm	-0.0044 ppm
Concentration per Run 2	0.0568 ppm	2.0042 ppm	-0.0009 ppm	-0.0005 ppm	2.0858 ppm	0.0532 ppm	-0.0041 ppm
Concentration per Run 3	0.0551 ppm	1.9207 ppm	-0.0020 ppm	-0.0036 ppm	1.9978 ppm	0.0506 ppm	-0.0059 ppm
Concentration RSD	1.5 %	2.5 %	218.1 %	75.0 %	2.4 %	2.9 %	20.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0573 ppm	0.5647 ppm	0.2150 ppm	0.2815 ppm	0.7778 ppm	0.0263 ppm	-0.0002 ppm
Concentration per Run 1	0.0579 ppm	0.5717 ppm	0.2177 ppm	0.2787 ppm	0.7812 ppm	0.0226 ppm	-0.0010 ppm
Concentration per Run 2	0.0576 ppm	0.5657 ppm	0.2157 ppm	0.2834 ppm	0.7895 ppm	0.0384 ppm	0.0007 ppm
Concentration per Run 3	0.0565 ppm	0.5567 ppm	0.2116 ppm	0.2826 ppm	0.7627 ppm	0.0178 ppm	-0.0001 ppm
Concentration RSD	1.3 %	1.3 %	1.5 %	0.9 %	1.8 %	41.0 %	513.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	0.5187 ppm	-0.0004 ppm	-0.0187 ppm	0.5752 ppm	0.0009 ppm	0.2645 ppm
Concentration per Run 1	0.0041 ppm	0.5268 ppm	-0.0004 ppm	-0.0175 ppm	0.5813 ppm	0.0004 ppm	0.2620 ppm
Concentration per Run 2	0.0018 ppm	0.5249 ppm	-0.0008 ppm	-0.0216 ppm	0.5792 ppm	0.0010 ppm	0.2649 ppm
Concentration per Run 3	-0.0009 ppm	0.5043 ppm	-0.0001 ppm	-0.0170 ppm	0.5651 ppm	0.0012 ppm	0.2666 ppm
Concentration RSD	151.4 %	2.4 %	84.7 %	13.4 %	1.5 %	48.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0095 ppm	-0.0012 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.4673 ppm
Concentration per Run 1	-0.0036 ppm	-0.0105 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm	0.0021 ppm	0.4549 ppm
Concentration per Run 2	0.0004 ppm	-0.0100 ppm	-0.0021 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.4689 ppm
Concentration per Run 3	0.0002 ppm	-0.0082 ppm	-0.0013 ppm	0.0000 ppm	0.0005 ppm	0.0018 ppm	0.4782 ppm
Concentration RSD	234.6 %	12.7 %	83.1 %	1,084.6 %	465.7 %	103.4 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5873 ppm	99.6458 %	102.8493 %	102.2660 %	106.2347 %	104.3876 %	105.4496 %
Concentration per Run 1	0.5964 ppm	97.6357 %	100.8232 %	101.7287 %	105.8411 %	102.4583 %	105.7402 %
Concentration per Run 2	0.5867 ppm	100.4144 %	101.7796 %	102.4753 %	106.9188 %	103.5851 %	105.7195 %
Concentration per Run 3	0.5789 ppm	100.8872 %	105.9452 %	102.5941 %	105.9442 %	107.1193 %	104.8890 %
Concentration RSD	1.5 %	1.8 %	2.6 %	0.5 %	0.6 %	2.3 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432695-06d2 WG1935350
Analysis started at: 6/17/2024 7:26:13 PM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0028 ppm	50.6491 ppm	0.4206 ppm	0.0009 ppm	0.2224 ppm	0.0030 ppm	20.8126 ppm
Concentration per Run 1	0.0025 ppm	51.0168 ppm	0.4206 ppm	0.0027 ppm	0.2239 ppm	0.0031 ppm	20.9390 ppm
Concentration per Run 2	0.0029 ppm	50.6053 ppm	0.4193 ppm	-0.0005 ppm	0.2215 ppm	0.0030 ppm	20.7567 ppm
Concentration per Run 3	0.0029 ppm	50.3252 ppm	0.4219 ppm	0.0003 ppm	0.2217 ppm	0.0030 ppm	20.7421 ppm
Concentration RSD	7.5 %	0.7 %	0.3 %	195.2 %	0.6 %	1.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0236 ppm	0.8371 ppm	0.9156 ppm	70.0018 ppm	3.8049 ppm	0.0688 ppm
Concentration per Run 1	0.0064 ppm	0.0243 ppm	0.8399 ppm	0.9140 ppm	70.4999 ppm	3.8181 ppm	0.0700 ppm
Concentration per Run 2	0.0062 ppm	0.0234 ppm	0.8351 ppm	0.9194 ppm	69.9152 ppm	3.8122 ppm	0.0685 ppm
Concentration per Run 3	0.0062 ppm	0.0231 ppm	0.8364 ppm	0.9135 ppm	69.5904 ppm	3.7843 ppm	0.0679 ppm
Concentration RSD	1.6 %	2.5 %	0.3 %	0.4 %	0.7 %	0.5 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.5569 ppm	0.5559 ppm	0.0052 ppm	0.5926 ppm	0.0722 ppm	0.6351 ppm	0.0244 ppm
Concentration per Run 1	13.6544 ppm	0.5615 ppm	0.0049 ppm	0.5999 ppm	0.0731 ppm	0.6337 ppm	0.0217 ppm
Concentration per Run 2	13.5220 ppm	0.5532 ppm	0.0054 ppm	0.5814 ppm	0.0722 ppm	0.6312 ppm	0.0253 ppm
Concentration per Run 3	13.4943 ppm	0.5529 ppm	0.0052 ppm	0.5966 ppm	0.0712 ppm	0.6403 ppm	0.0262 ppm
Concentration RSD	0.6 %	0.9 %	5.3 %	1.7 %	1.3 %	0.7 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0105 ppm	6.2933 ppm	0.0169 ppm	0.0634 ppm	1.7603 ppm	0.0013 ppm	0.1008 ppm
Concentration per Run 1	0.0086 ppm	6.2345 ppm	0.0163 ppm	0.0640 ppm	1.7863 ppm	0.0027 ppm	0.1014 ppm
Concentration per Run 2	0.0126 ppm	6.2231 ppm	0.0172 ppm	0.0629 ppm	1.7501 ppm	0.0005 ppm	0.1002 ppm
Concentration per Run 3	0.0104 ppm	6.4223 ppm	0.0172 ppm	0.0633 ppm	1.7443 ppm	0.0006 ppm	0.1007 ppm
Concentration RSD	18.8 %	1.8 %	2.9 %	0.9 %	1.3 %	93.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9778 ppm	108.2545 %	105.4158 %	102.2191 %	116.2108 %	114.3258 %	114.2788 %
Concentration per Run 1	0.9798 ppm	108.1067 %	105.2537 %	102.7722 %	115.6332 %	114.2183 %	115.5022 %
Concentration per Run 2	0.9778 ppm	108.4336 %	104.3102 %	101.9791 %	116.4704 %	112.8976 %	113.6173 %
Concentration per Run 3	0.9758 ppm	108.2232 %	106.6835 %	101.9060 %	116.5288 %	115.8616 %	113.7169 %
Concentration RSD	0.2 %	0.2 %	1.1 %	0.5 %	0.4 %	1.3 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432695-07d2 WG1935350
Analysis started at: 6/17/2024 7:29:41 PM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0040 ppm	68.3531 ppm	0.2509 ppm	0.0038 ppm	0.4249 ppm	0.0036 ppm	18.2439 ppm
Concentration per Run 1	0.0040 ppm	68.0637 ppm	0.2528 ppm	0.0046 ppm	0.4244 ppm	0.0036 ppm	18.0890 ppm
Concentration per Run 2	0.0039 ppm	68.4557 ppm	0.2471 ppm	0.0039 ppm	0.4221 ppm	0.0036 ppm	18.2549 ppm
Concentration per Run 3	0.0041 ppm	68.5399 ppm	0.2527 ppm	0.0030 ppm	0.4283 ppm	0.0036 ppm	18.3876 ppm
Concentration RSD	2.6 %	0.4 %	1.3 %	19.8 %	0.7 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0484 ppm	0.5712 ppm	0.5187 ppm	106.3338 ppm	5.0244 ppm	0.1030 ppm
Concentration per Run 1	0.0022 ppm	0.0485 ppm	0.5716 ppm	0.5217 ppm	105.7268 ppm	5.0471 ppm	0.1031 ppm
Concentration per Run 2	0.0024 ppm	0.0491 ppm	0.5768 ppm	0.5236 ppm	105.8699 ppm	5.0163 ppm	0.1030 ppm
Concentration per Run 3	0.0024 ppm	0.0476 ppm	0.5652 ppm	0.5108 ppm	107.4049 ppm	5.0097 ppm	0.1029 ppm
Concentration RSD	4.3 %	1.6 %	1.0 %	1.3 %	0.9 %	0.4 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0574 ppm	1.3821 ppm	0.0059 ppm	0.7167 ppm	0.2011 ppm	1.3076 ppm	0.0120 ppm
Concentration per Run 1	24.1036 ppm	1.3749 ppm	0.0060 ppm	0.7303 ppm	0.2006 ppm	1.3083 ppm	0.0096 ppm
Concentration per Run 2	24.2298 ppm	1.3765 ppm	0.0056 ppm	0.7180 ppm	0.2031 ppm	1.3018 ppm	0.0162 ppm
Concentration per Run 3	23.8388 ppm	1.3949 ppm	0.0061 ppm	0.7017 ppm	0.1994 ppm	1.3126 ppm	0.0102 ppm
Concentration RSD	0.8 %	0.8 %	4.8 %	2.0 %	0.9 %	0.4 %	30.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0042 ppm	5.4414 ppm	0.0324 ppm	0.0813 ppm	2.3954 ppm	0.0018 ppm	0.1540 ppm
Concentration per Run 1	0.0050 ppm	5.4146 ppm	0.0317 ppm	0.0813 ppm	2.4011 ppm	0.0012 ppm	0.1542 ppm
Concentration per Run 2	0.0028 ppm	5.4699 ppm	0.0331 ppm	0.0809 ppm	2.4148 ppm	0.0018 ppm	0.1555 ppm
Concentration per Run 3	0.0049 ppm	5.4396 ppm	0.0325 ppm	0.0818 ppm	2.3703 ppm	0.0022 ppm	0.1524 ppm
Concentration RSD	28.8 %	0.5 %	2.2 %	0.5 %	1.0 %	29.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.5394 ppm	107.5977 %	108.2089 %	103.6667 %	122.2876 %	123.9609 %	123.6182 %
Concentration per Run 1	1.5358 ppm	107.8644 %	109.9183 %	103.6265 %	122.4446 %	125.7234 %	123.5027 %
Concentration per Run 2	1.5561 ppm	107.0022 %	108.1694 %	103.4066 %	122.0823 %	123.9883 %	123.1070 %
Concentration per Run 3	1.5264 ppm	107.9267 %	106.5389 %	103.9671 %	122.3359 %	122.1711 %	124.2450 %
Concentration RSD	1.0 %	0.5 %	1.6 %	0.3 %	0.2 %	1.4 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432700-01d2 WG1935350
Analysis started at: 6/17/2024 7:33:09 PM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0038 ppm	66.9043 ppm	0.0749 ppm	0.0009 ppm	0.3141 ppm	0.0042 ppm	15.0495 ppm
Concentration per Run 1	0.0041 ppm	66.7969 ppm	0.0754 ppm	0.0003 ppm	0.3137 ppm	0.0041 ppm	15.0172 ppm
Concentration per Run 2	0.0039 ppm	67.3030 ppm	0.0750 ppm	0.0022 ppm	0.3152 ppm	0.0042 ppm	15.1048 ppm
Concentration per Run 3	0.0035 ppm	66.6130 ppm	0.0742 ppm	0.0002 ppm	0.3133 ppm	0.0042 ppm	15.0266 ppm
Concentration RSD	8.3 %	0.5 %	0.8 %	128.0 %	0.3 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0041 ppm	0.0579 ppm	0.1447 ppm	0.1650 ppm	165.9954 ppm	11.6060 ppm	0.1769 ppm
Concentration per Run 1	-0.0043 ppm	0.0580 ppm	0.1456 ppm	0.1661 ppm	165.1238 ppm	11.5863 ppm	0.1778 ppm
Concentration per Run 2	-0.0040 ppm	0.0581 ppm	0.1438 ppm	0.1641 ppm	166.3792 ppm	11.6723 ppm	0.1779 ppm
Concentration per Run 3	-0.0041 ppm	0.0577 ppm	0.1446 ppm	0.1648 ppm	166.4831 ppm	11.5592 ppm	0.1751 ppm
Concentration RSD	3.3 %	0.3 %	0.6 %	0.6 %	0.5 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.2409 ppm	2.7126 ppm	0.0105 ppm	2.1271 ppm	0.1227 ppm	0.1026 ppm	-0.0018 ppm
Concentration per Run 1	25.4207 ppm	2.7070 ppm	0.0109 ppm	2.1061 ppm	0.1225 ppm	0.1021 ppm	-0.0012 ppm
Concentration per Run 2	25.0212 ppm	2.7147 ppm	0.0104 ppm	2.1520 ppm	0.1225 ppm	0.1025 ppm	-0.0032 ppm
Concentration per Run 3	25.2808 ppm	2.7159 ppm	0.0104 ppm	2.1232 ppm	0.1230 ppm	0.1030 ppm	-0.0011 ppm
Concentration RSD	0.8 %	0.2 %	2.6 %	1.1 %	0.2 %	0.4 %	62.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	6.2044 ppm	0.0049 ppm	0.0676 ppm	3.1913 ppm	0.0019 ppm	0.1843 ppm
Concentration per Run 1	-0.0001 ppm	6.3762 ppm	0.0052 ppm	0.0673 ppm	3.2076 ppm	0.0005 ppm	0.1854 ppm
Concentration per Run 2	-0.0028 ppm	6.0941 ppm	0.0039 ppm	0.0679 ppm	3.1831 ppm	0.0027 ppm	0.1829 ppm
Concentration per Run 3	-0.0030 ppm	6.1428 ppm	0.0057 ppm	0.0677 ppm	3.1833 ppm	0.0025 ppm	0.1846 ppm
Concentration RSD	83.8 %	2.4 %	19.1 %	0.4 %	0.4 %	65.9 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0054 ppm	107.1658 %	106.3603 %	101.1929 %	114.1412 %	114.1440 %	114.8794 %
Concentration per Run 1	1.0137 ppm	105.9220 %	108.1708 %	100.6123 %	112.8550 %	115.9292 %	114.3427 %
Concentration per Run 2	0.9968 ppm	108.7811 %	106.0446 %	101.4509 %	116.0450 %	114.1292 %	115.0694 %
Concentration per Run 3	1.0058 ppm	106.7943 %	104.8653 %	101.5156 %	113.5237 %	112.3738 %	115.2260 %
Concentration RSD	0.8 %	1.4 %	1.6 %	0.5 %	1.5 %	1.6 %	0.4 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432705-01d2 WG1935350
Analysis started at: 6/17/2024 7:36:38 PM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	95.9852 ppm	0.8882 ppm	0.0056 ppm	0.3455 ppm	0.0049 ppm	16.3588 ppm
Concentration per Run 1	0.0054 ppm	95.5535 ppm	0.8909 ppm	0.0049 ppm	0.3437 ppm	0.0049 ppm	16.2201 ppm
Concentration per Run 2	0.0057 ppm	96.7545 ppm	0.8924 ppm	0.0046 ppm	0.3497 ppm	0.0050 ppm	16.5221 ppm
Concentration per Run 3	0.0050 ppm	95.6476 ppm	0.8813 ppm	0.0072 ppm	0.3430 ppm	0.0049 ppm	16.3343 ppm
Concentration RSD	6.5 %	0.7 %	0.7 %	25.1 %	1.1 %	0.9 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0475 ppm	1.3913 ppm	1.6573 ppm	138.4805 ppm	6.7664 ppm	0.1211 ppm
Concentration per Run 1	0.0044 ppm	0.0484 ppm	1.3900 ppm	1.6514 ppm	137.6953 ppm	6.7689 ppm	0.1224 ppm
Concentration per Run 2	0.0046 ppm	0.0471 ppm	1.3910 ppm	1.6562 ppm	139.5792 ppm	6.8248 ppm	0.1216 ppm
Concentration per Run 3	0.0046 ppm	0.0471 ppm	1.3929 ppm	1.6643 ppm	138.1671 ppm	6.7055 ppm	0.1194 ppm
Concentration RSD	2.5 %	1.5 %	0.1 %	0.4 %	0.7 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.3933 ppm	1.5846 ppm	0.0094 ppm	0.6513 ppm	0.1564 ppm	1.1681 ppm	0.0246 ppm
Concentration per Run 1	23.4216 ppm	1.5680 ppm	0.0095 ppm	0.6503 ppm	0.1561 ppm	1.1711 ppm	0.0206 ppm
Concentration per Run 2	23.4095 ppm	1.5971 ppm	0.0091 ppm	0.6574 ppm	0.1571 ppm	1.1757 ppm	0.0291 ppm
Concentration per Run 3	23.3490 ppm	1.5888 ppm	0.0097 ppm	0.6460 ppm	0.1560 ppm	1.1574 ppm	0.0242 ppm
Concentration RSD	0.2 %	0.9 %	3.0 %	0.9 %	0.4 %	0.8 %	17.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0151 ppm	3.5749 ppm	0.0585 ppm	0.1154 ppm	2.4681 ppm	0.0025 ppm	0.1998 ppm
Concentration per Run 1	0.0157 ppm	3.6010 ppm	0.0586 ppm	0.1153 ppm	2.4671 ppm	0.0025 ppm	0.1991 ppm
Concentration per Run 2	0.0150 ppm	3.5608 ppm	0.0593 ppm	0.1163 ppm	2.4773 ppm	0.0030 ppm	0.1999 ppm
Concentration per Run 3	0.0145 ppm	3.5628 ppm	0.0576 ppm	0.1145 ppm	2.4599 ppm	0.0021 ppm	0.2004 ppm
Concentration RSD	4.1 %	0.6 %	1.5 %	0.8 %	0.4 %	18.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6740 ppm	108.1817 %	107.0668 %	101.6693 %	123.3441 %	123.3832 %	122.5468 %
Concentration per Run 1	2.6697 ppm	108.2749 %	107.7498 %	101.1731 %	123.0949 %	124.3824 %	121.8453 %
Concentration per Run 2	2.6735 ppm	108.0098 %	106.5805 %	100.6319 %	123.0720 %	123.1869 %	121.5135 %
Concentration per Run 3	2.6787 ppm	108.2604 %	106.8701 %	103.2029 %	123.8654 %	122.5804 %	124.2815 %
Concentration RSD	0.2 %	0.1 %	0.6 %	1.3 %	0.4 %	0.7 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 7:40:06 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5038 ppm	0.4979 ppm	0.4715 ppm	0.4910 ppm	0.5086 ppm	0.5194 ppm	0.4990 ppm
Concentration per Run 1	0.5072 ppm	0.5008 ppm	0.4692 ppm	0.4971 ppm	0.5082 ppm	0.5171 ppm	0.4927 ppm
Concentration per Run 2	0.5064 ppm	0.5023 ppm	0.4714 ppm	0.4897 ppm	0.5057 ppm	0.5188 ppm	0.4985 ppm
Concentration per Run 3	0.4977 ppm	0.4906 ppm	0.4740 ppm	0.4863 ppm	0.5118 ppm	0.5223 ppm	0.5057 ppm
Recovery Percentage 1	100.761 %	99.576 %	94.302 %	98.205 %	101.715 %	103.880 %	99.796 %
Concentration RSD	1.0 %	1.3 %	0.5 %	1.1 %	0.6 %	0.5 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4945 ppm	0.5069 ppm	0.4880 ppm	0.4925 ppm	0.5283 ppm	5.2236 ppm	0.5048 ppm
Concentration per Run 1	0.4886 ppm	0.5058 ppm	0.4894 ppm	0.4973 ppm	0.5296 ppm	5.2356 ppm	0.5049 ppm
Concentration per Run 2	0.4936 ppm	0.5062 ppm	0.4883 ppm	0.4945 ppm	0.5249 ppm	5.1791 ppm	0.4998 ppm
Concentration per Run 3	0.5012 ppm	0.5087 ppm	0.4861 ppm	0.4856 ppm	0.5304 ppm	5.2559 ppm	0.5096 ppm
Recovery Percentage 1	98.895 %	101.385 %	97.593 %	98.492 %	105.656 %	104.471 %	100.952 %
Concentration RSD	1.3 %	0.3 %	0.3 %	1.2 %	0.6 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4859 ppm	0.4921 ppm	0.4926 ppm	9.9897 ppm	0.5032 ppm	0.4911 ppm	0.5011 ppm
Concentration per Run 1	0.4858 ppm	0.4895 ppm	0.4928 ppm	9.9261 ppm	0.5050 ppm	0.4907 ppm	0.5001 ppm
Concentration per Run 2	0.4885 ppm	0.4915 ppm	0.4910 ppm	9.9678 ppm	0.5025 ppm	0.4864 ppm	0.5059 ppm
Concentration per Run 3	0.4836 ppm	0.4954 ppm	0.4940 ppm	10.0752 ppm	0.5020 ppm	0.4962 ppm	0.4974 ppm
Recovery Percentage 1	97.189 %	98.428 %	98.517 %	99.897 %	100.639 %	98.225 %	100.228 %
Concentration RSD	0.5 %	0.6 %	0.3 %	0.8 %	0.3 %	1.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4829 ppm	5.5903 ppm	0.5220 ppm	0.5064 ppm	0.4990 ppm	0.4911 ppm	0.4842 ppm
Concentration per Run 1	0.4763 ppm	5.6158 ppm	0.5294 ppm	0.5046 ppm	0.5012 ppm	0.4875 ppm	0.4858 ppm
Concentration per Run 2	0.4835 ppm	5.6102 ppm	0.5217 ppm	0.5050 ppm	0.4994 ppm	0.4925 ppm	0.4836 ppm
Concentration per Run 3	0.4890 ppm	5.5450 ppm	0.5151 ppm	0.5095 ppm	0.4965 ppm	0.4932 ppm	0.4831 ppm
Recovery Percentage 1	96.580 %	106.483 %	104.407 %	101.273 %	99.807 %	98.212 %	96.835 %
Concentration RSD	1.3 %	0.7 %	1.4 %	0.5 %	0.5 %	0.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5123 ppm	105.3991 %	102.7806 %	105.7709 %	104.2897 %	102.6383 %	106.4203 %
Concentration per Run 1	0.5159 ppm	104.8576 %	102.5634 %	105.8781 %	103.9849 %	102.1278 %	106.4169 %
Concentration per Run 2	0.5094 ppm	106.5128 %	103.5927 %	105.5390 %	105.2657 %	103.9126 %	106.1208 %
Concentration per Run 3	0.5118 ppm	104.8268 %	102.1858 %	105.8956 %	103.6184 %	101.8746 %	106.7233 %
Recovery Percentage 1	102.469 %						
Concentration RSD	0.6 %	0.9 %	0.7 %	0.2 %	0.8 %	1.1 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 7:43:35 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0074 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 1	-0.0004 ppm	0.0087 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	-0.0001 ppm	0.0079 ppm	0.0015 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 3	-0.0003 ppm	0.0055 ppm	0.0019 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Recovery Percentage 1	-3.876 %	7.376 %	20.424 %	-1.354 %	0.714 %	0.412 %	2.757 %
Concentration RSD	44.0 %	22.7 %	120.1 %	136.7 %	112.2 %	145.1 %	133.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0050 ppm	0.0096 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0187 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0006 ppm	0.0054 ppm	-0.0052 ppm	-0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0004 ppm	0.0057 ppm	0.0152 ppm	0.0012 ppm
Recovery Percentage 1	-0.887 %	-0.304 %	-3.013 %	4.180 %	9.930 %	0.382 %	8.467 %
Concentration RSD	188.4 %	766.7 %	126.5 %	38.1 %	20.2 %	134.9 %	239.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0023 ppm	-0.0001 ppm	0.0016 ppm	-0.0093 ppm	0.0010 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 1	0.0029 ppm	-0.0002 ppm	0.0014 ppm	-0.0091 ppm	0.0017 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 2	0.0017 ppm	-0.0001 ppm	0.0014 ppm	-0.0074 ppm	0.0006 ppm	0.0012 ppm	0.0015 ppm
Concentration per Run 3	0.0023 ppm	0.0001 ppm	0.0019 ppm	-0.0114 ppm	0.0006 ppm	0.0009 ppm	0.0018 ppm
Recovery Percentage 1	2.289 %	-0.621 %	3.181 %	-0.465 %	3.915 %	8.020 %	1.652 %
Concentration RSD	24.2 %	237.8 %	16.7 %	22.0 %	63.9 %	52.9 %	175.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	-0.0060 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0019 ppm	-0.0042 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	-0.0004 ppm
Concentration per Run 2	0.0041 ppm	-0.0064 ppm	-0.0003 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 3	0.0033 ppm	-0.0074 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	-0.0001 ppm
Recovery Percentage 1	18.697 %	-1.204 %	-0.503 %	-0.208 %	2.574 %	-2.539 %	-2.346 %
Concentration RSD	174.5 %	27.0 %	106.1 %	148.0 %	55.4 %	199.3 %	58.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	105.7111 %	104.3803 %	106.6268 %	106.1909 %	105.7531 %	107.2484 %
Concentration per Run 1	-0.0001 ppm	105.8431 %	103.1805 %	105.9663 %	106.2717 %	104.9655 %	106.4383 %
Concentration per Run 2	-0.0006 ppm	104.3130 %	105.1374 %	107.5292 %	104.4193 %	106.4088 %	108.2094 %
Concentration per Run 3	-0.0003 ppm	106.9773 %	104.8230 %	106.3849 %	107.8816 %	105.8850 %	107.0974 %
Recovery Percentage 1	-6.398 %						
Concentration RSD	74.5 %	1.3 %	1.0 %	0.8 %	1.6 %	0.7 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432705-02d2 WG1935350
Analysis started at: 6/17/2024 7:47:11 PM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0078 ppm	82.6794 ppm	1.7015 ppm	0.0050 ppm	0.3804 ppm	0.0051 ppm	19.3146 ppm
Concentration per Run 1	0.0077 ppm	82.7305 ppm	1.7029 ppm	0.0050 ppm	0.3806 ppm	0.0052 ppm	19.3097 ppm
Concentration per Run 2	0.0078 ppm	82.8795 ppm	1.7101 ppm	0.0041 ppm	0.3812 ppm	0.0051 ppm	19.4842 ppm
Concentration per Run 3	0.0078 ppm	82.4282 ppm	1.6916 ppm	0.0060 ppm	0.3794 ppm	0.0052 ppm	19.1499 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	19.3 %	0.2 %	1.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0124 ppm	0.0433 ppm	3.1084 ppm	3.7472 ppm	154.3798 ppm	8.7729 ppm	0.0760 ppm
Concentration per Run 1	0.0120 ppm	0.0433 ppm	3.0847 ppm	3.7156 ppm	155.2130 ppm	8.8018 ppm	0.0774 ppm
Concentration per Run 2	0.0126 ppm	0.0435 ppm	3.1133 ppm	3.7525 ppm	154.1843 ppm	8.7603 ppm	0.0762 ppm
Concentration per Run 3	0.0125 ppm	0.0431 ppm	3.1273 ppm	3.7735 ppm	153.7419 ppm	8.7565 ppm	0.0744 ppm
Concentration RSD	2.6 %	0.4 %	0.7 %	0.8 %	0.5 %	0.3 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.3455 ppm	1.1656 ppm	0.0137 ppm	0.6546 ppm	0.0929 ppm	1.7834 ppm	0.0486 ppm
Concentration per Run 1	19.2393 ppm	1.1715 ppm	0.0132 ppm	0.6634 ppm	0.0923 ppm	1.7795 ppm	0.0496 ppm
Concentration per Run 2	19.3321 ppm	1.1725 ppm	0.0137 ppm	0.6536 ppm	0.0938 ppm	1.7949 ppm	0.0486 ppm
Concentration per Run 3	19.4651 ppm	1.1528 ppm	0.0141 ppm	0.6468 ppm	0.0924 ppm	1.7757 ppm	0.0476 ppm
Concentration RSD	0.6 %	1.0 %	3.5 %	1.3 %	0.9 %	0.6 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0258 ppm	5.7061 ppm	0.0605 ppm	0.1271 ppm	1.9926 ppm	0.0029 ppm	0.1742 ppm
Concentration per Run 1	0.0276 ppm	5.6731 ppm	0.0590 ppm	0.1277 ppm	1.9853 ppm	0.0018 ppm	0.1734 ppm
Concentration per Run 2	0.0276 ppm	5.6670 ppm	0.0614 ppm	0.1268 ppm	1.9779 ppm	0.0032 ppm	0.1735 ppm
Concentration per Run 3	0.0221 ppm	5.7781 ppm	0.0610 ppm	0.1268 ppm	2.0147 ppm	0.0036 ppm	0.1756 ppm
Concentration RSD	12.3 %	1.1 %	2.2 %	0.4 %	1.0 %	34.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2731 ppm	109.3835 %	108.2827 %	101.9493 %	124.7022 %	125.5277 %	123.4408 %
Concentration per Run 1	3.2719 ppm	108.7418 %	107.7898 %	102.4398 %	123.7843 %	124.8522 %	123.7073 %
Concentration per Run 2	3.2757 ppm	109.6250 %	107.6479 %	100.9102 %	124.7676 %	125.4332 %	122.7330 %
Concentration per Run 3	3.2717 ppm	109.7836 %	109.4105 %	102.4978 %	125.5546 %	126.2976 %	123.8822 %
Concentration RSD	0.1 %	0.5 %	0.9 %	0.9 %	0.7 %	0.6 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432705-03d2 WG1935350
Analysis started at: 6/17/2024 7:50:40 PM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0030 ppm	60.1930 ppm	0.0959 ppm	0.0051 ppm	0.3888 ppm	0.0034 ppm	17.6483 ppm
Concentration per Run 1	0.0027 ppm	59.7165 ppm	0.0966 ppm	0.0045 ppm	0.3838 ppm	0.0034 ppm	17.4669 ppm
Concentration per Run 2	0.0034 ppm	60.3823 ppm	0.0964 ppm	0.0060 ppm	0.3931 ppm	0.0035 ppm	17.7479 ppm
Concentration per Run 3	0.0028 ppm	60.4803 ppm	0.0947 ppm	0.0049 ppm	0.3895 ppm	0.0034 ppm	17.7300 ppm
Concentration RSD	12.9 %	0.7 %	1.1 %	14.9 %	1.2 %	2.4 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0025 ppm	0.0582 ppm	0.1579 ppm	0.2024 ppm	123.7915 ppm	9.9044 ppm	0.1257 ppm
Concentration per Run 1	-0.0025 ppm	0.0577 ppm	0.1586 ppm	0.2027 ppm	123.2328 ppm	9.8438 ppm	0.1250 ppm
Concentration per Run 2	-0.0024 ppm	0.0578 ppm	0.1579 ppm	0.2029 ppm	124.4190 ppm	10.0100 ppm	0.1274 ppm
Concentration per Run 3	-0.0026 ppm	0.0591 ppm	0.1572 ppm	0.2015 ppm	123.7229 ppm	9.8593 ppm	0.1246 ppm
Concentration RSD	4.3 %	1.3 %	0.4 %	0.4 %	0.5 %	0.9 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.4862 ppm	2.1240 ppm	0.0055 ppm	0.7812 ppm	0.1441 ppm	0.4859 ppm	0.0006 ppm
Concentration per Run 1	29.5640 ppm	2.1181 ppm	0.0060 ppm	0.7769 ppm	0.1450 ppm	0.4885 ppm	0.0025 ppm
Concentration per Run 2	29.4638 ppm	2.1300 ppm	0.0051 ppm	0.7813 ppm	0.1437 ppm	0.4861 ppm	-0.0011 ppm
Concentration per Run 3	29.4307 ppm	2.1240 ppm	0.0054 ppm	0.7852 ppm	0.1435 ppm	0.4831 ppm	0.0005 ppm
Concentration RSD	0.2 %	0.3 %	8.6 %	0.5 %	0.6 %	0.6 %	285.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	3.8076 ppm	0.1099 ppm	0.1143 ppm	3.0011 ppm	0.0019 ppm	0.2194 ppm
Concentration per Run 1	0.0014 ppm	3.7297 ppm	0.1104 ppm	0.1133 ppm	3.0011 ppm	0.0017 ppm	0.2199 ppm
Concentration per Run 2	0.0024 ppm	3.8203 ppm	0.1109 ppm	0.1153 ppm	3.0125 ppm	0.0027 ppm	0.2188 ppm
Concentration per Run 3	-0.0048 ppm	3.8726 ppm	0.1085 ppm	0.1142 ppm	2.9895 ppm	0.0013 ppm	0.2197 ppm
Concentration RSD	1,191.1 %	1.9 %	1.1 %	0.9 %	0.4 %	36.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1513 ppm	108.9112 %	105.2874 %	102.9127 %	122.1646 %	120.3722 %	122.2142 %
Concentration per Run 1	1.1543 ppm	109.0280 %	105.2222 %	102.5725 %	122.3378 %	120.0315 %	121.7223 %
Concentration per Run 2	1.1506 ppm	109.0685 %	104.6861 %	103.1702 %	122.2466 %	120.0524 %	122.7777 %
Concentration per Run 3	1.1489 ppm	108.6372 %	105.9538 %	102.9953 %	121.9092 %	121.0329 %	122.1426 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %	0.2 %	0.5 %	0.4 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432705-07d2 WG1935350
Analysis started at: 6/17/2024 7:54:09 PM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0048 ppm	105.8103 ppm	0.4373 ppm	0.0104 ppm	0.4614 ppm	0.0049 ppm	18.4309 ppm
Concentration per Run 1	0.0049 ppm	105.7856 ppm	0.4333 ppm	0.0104 ppm	0.4607 ppm	0.0048 ppm	18.3042 ppm
Concentration per Run 2	0.0046 ppm	106.3366 ppm	0.4414 ppm	0.0107 ppm	0.4629 ppm	0.0049 ppm	18.4676 ppm
Concentration per Run 3	0.0048 ppm	105.3086 ppm	0.4371 ppm	0.0100 ppm	0.4606 ppm	0.0049 ppm	18.5210 ppm
Concentration RSD	3.2 %	0.5 %	0.9 %	3.2 %	0.3 %	1.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0420 ppm	0.7610 ppm	0.8260 ppm	135.8164 ppm	6.7175 ppm	0.1141 ppm
Concentration per Run 1	0.0012 ppm	0.0421 ppm	0.7563 ppm	0.8231 ppm	135.2501 ppm	6.7780 ppm	0.1152 ppm
Concentration per Run 2	0.0010 ppm	0.0418 ppm	0.7647 ppm	0.8281 ppm	136.3367 ppm	6.7268 ppm	0.1135 ppm
Concentration per Run 3	0.0012 ppm	0.0421 ppm	0.7621 ppm	0.8266 ppm	135.8624 ppm	6.6477 ppm	0.1136 ppm
Concentration RSD	13.3 %	0.4 %	0.6 %	0.3 %	0.4 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.3773 ppm	1.5106 ppm	0.0079 ppm	0.6919 ppm	0.1282 ppm	1.4802 ppm	0.0110 ppm
Concentration per Run 1	20.3197 ppm	1.5102 ppm	0.0081 ppm	0.6938 ppm	0.1270 ppm	1.4829 ppm	0.0149 ppm
Concentration per Run 2	20.3775 ppm	1.5119 ppm	0.0074 ppm	0.6885 ppm	0.1303 ppm	1.4779 ppm	0.0072 ppm
Concentration per Run 3	20.4345 ppm	1.5096 ppm	0.0082 ppm	0.6934 ppm	0.1273 ppm	1.4797 ppm	0.0108 ppm
Concentration RSD	0.3 %	0.1 %	5.5 %	0.4 %	1.4 %	0.2 %	34.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	6.6640 ppm	0.1164 ppm	0.1291 ppm	3.0586 ppm	0.0023 ppm	0.2026 ppm
Concentration per Run 1	0.0092 ppm	6.6779 ppm	0.1151 ppm	0.1286 ppm	3.0424 ppm	0.0026 ppm	0.2024 ppm
Concentration per Run 2	0.0081 ppm	6.8034 ppm	0.1169 ppm	0.1297 ppm	3.0685 ppm	0.0018 ppm	0.2024 ppm
Concentration per Run 3	0.0049 ppm	6.5106 ppm	0.1173 ppm	0.1289 ppm	3.0650 ppm	0.0026 ppm	0.2031 ppm
Concentration RSD	30.1 %	2.2 %	1.0 %	0.4 %	0.5 %	19.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4250 ppm	107.8384 %	107.2521 %	102.2898 %	120.5646 %	121.6752 %	121.6705 %
Concentration per Run 1	1.4142 ppm	108.3081 %	107.8049 %	102.1435 %	121.3219 %	122.0893 %	121.5878 %
Concentration per Run 2	1.4311 ppm	108.1016 %	107.8789 %	102.2062 %	120.7321 %	122.5315 %	121.3907 %
Concentration per Run 3	1.4297 ppm	107.1055 %	106.0725 %	102.5197 %	119.6397 %	120.4048 %	122.0331 %
Concentration RSD	0.7 %	0.6 %	1.0 %	0.2 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432736-02d2 WG1935350
Analysis started at: 6/17/2024 7:57:39 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0053 ppm	97.1568 ppm	0.0594 ppm	0.0089 ppm	0.3163 ppm	0.0034 ppm	47.8424 ppm
Concentration per Run 1	0.0056 ppm	95.9793 ppm	0.0581 ppm	0.0099 ppm	0.3113 ppm	0.0033 ppm	47.1236 ppm
Concentration per Run 2	0.0056 ppm	97.7567 ppm	0.0609 ppm	0.0081 ppm	0.3189 ppm	0.0035 ppm	48.1690 ppm
Concentration per Run 3	0.0048 ppm	97.7344 ppm	0.0593 ppm	0.0086 ppm	0.3186 ppm	0.0035 ppm	48.2345 ppm
Concentration RSD	8.1 %	1.0 %	2.4 %	10.9 %	1.4 %	2.5 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0064 ppm	0.0883 ppm	0.2324 ppm	0.2893 ppm	**212.0233 ppm**	16.9717 ppm	0.1746 ppm
Concentration per Run 1	-0.0063 ppm	0.0883 ppm	0.2308 ppm	0.2882 ppm	209.8944 ppm	16.9179 ppm	0.1748 ppm
Concentration per Run 2	-0.0064 ppm	0.0889 ppm	0.2350 ppm	0.2902 ppm	212.8419 ppm	17.0410 ppm	0.1738 ppm
Concentration per Run 3	-0.0064 ppm	0.0876 ppm	0.2312 ppm	0.2896 ppm	213.3336 ppm	16.9562 ppm	0.1752 ppm
Concentration RSD	1.4 %	0.7 %	1.0 %	0.4 %	0.9 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.9259 ppm	4.4633 ppm	0.0130 ppm	4.2892 ppm	0.1717 ppm	0.3316 ppm	0.0012 ppm
Concentration per Run 1	48.6006 ppm	4.4078 ppm	0.0127 ppm	4.2729 ppm	0.1698 ppm	0.3335 ppm	0.0055 ppm
Concentration per Run 2	49.2975 ppm	4.4890 ppm	0.0131 ppm	4.2934 ppm	0.1739 ppm	0.3292 ppm	-0.0035 ppm
Concentration per Run 3	48.8796 ppm	4.4930 ppm	0.0132 ppm	4.3012 ppm	0.1716 ppm	0.3322 ppm	0.0014 ppm
Concentration RSD	0.7 %	1.1 %	1.9 %	0.3 %	1.2 %	0.7 %	389.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0048 ppm	8.4160 ppm	0.0121 ppm	0.1560 ppm	4.0199 ppm	0.0021 ppm	0.2552 ppm
Concentration per Run 1	-0.0066 ppm	8.3888 ppm	0.0124 ppm	0.1549 ppm	3.9961 ppm	0.0015 ppm	0.2530 ppm
Concentration per Run 2	-0.0055 ppm	8.5464 ppm	0.0108 ppm	0.1562 ppm	4.0454 ppm	0.0026 ppm	0.2570 ppm
Concentration per Run 3	-0.0024 ppm	8.3127 ppm	0.0130 ppm	0.1568 ppm	4.0182 ppm	0.0022 ppm	0.2555 ppm
Concentration RSD	45.9 %	1.4 %	9.4 %	0.6 %	0.6 %	27.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5360 ppm	106.4692 %	106.5252 %	98.4027 %	119.4474 %	121.5708 %	120.6185 %
Concentration per Run 1	0.5310 ppm	107.2868 %	107.2016 %	99.1878 %	120.6666 %	122.0015 %	121.3967 %
Concentration per Run 2	0.5396 ppm	105.6964 %	107.0315 %	99.0562 %	118.3791 %	122.4297 %	121.3956 %
Concentration per Run 3	0.5372 ppm	106.4244 %	105.3426 %	96.9640 %	119.2965 %	120.2813 %	119.0632 %
Concentration RSD	0.8 %	0.7 %	1.0 %	1.3 %	1.0 %	0.9 %	1.1 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432736-03d2 WG1935350
Analysis started at: 6/17/2024 8:01:09 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0050 ppm	109.5280 ppm	0.0926 ppm	0.0109 ppm	0.3005 ppm	0.0035 ppm	25.0582 ppm
Concentration per Run 1	0.0045 ppm	109.7763 ppm	0.0907 ppm	0.0102 ppm	0.3014 ppm	0.0035 ppm	25.1540 ppm
Concentration per Run 2	0.0050 ppm	110.1465 ppm	0.0941 ppm	0.0113 ppm	0.3025 ppm	0.0035 ppm	25.1825 ppm
Concentration per Run 3	0.0054 ppm	108.6614 ppm	0.0931 ppm	0.0111 ppm	0.2975 ppm	0.0035 ppm	24.8382 ppm
Concentration RSD	9.0 %	0.7 %	1.9 %	5.2 %	0.9 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0066 ppm	0.0856 ppm	0.2551 ppm	0.2748 ppm	222.5834 ppm	20.0803 ppm	0.2149 ppm
Concentration per Run 1	-0.0065 ppm	0.0868 ppm	0.2565 ppm	0.2751 ppm	223.7743 ppm	20.2277 ppm	0.2157 ppm
Concentration per Run 2	-0.0069 ppm	0.0855 ppm	0.2566 ppm	0.2771 ppm	223.6354 ppm	20.2082 ppm	0.2163 ppm
Concentration per Run 3	-0.0065 ppm	0.0844 ppm	0.2522 ppm	0.2722 ppm	220.3404 ppm	19.8049 ppm	0.2128 ppm
Concentration RSD	3.2 %	1.4 %	1.0 %	0.9 %	0.9 %	1.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	56.1870 ppm	4.8963 ppm	0.0091 ppm	2.3316 ppm	0.1831 ppm	0.1104 ppm	-0.0020 ppm
Concentration per Run 1	56.6307 ppm	4.9125 ppm	0.0087 ppm	2.3476 ppm	0.1849 ppm	0.1105 ppm	-0.0006 ppm
Concentration per Run 2	56.2700 ppm	4.9132 ppm	0.0089 ppm	2.3523 ppm	0.1839 ppm	0.1118 ppm	-0.0038 ppm
Concentration per Run 3	55.6604 ppm	4.8632 ppm	0.0096 ppm	2.2950 ppm	0.1807 ppm	0.1090 ppm	-0.0016 ppm
Concentration RSD	0.9 %	0.6 %	5.0 %	1.4 %	1.2 %	1.3 %	79.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0035 ppm	5.6605 ppm	0.0058 ppm	0.1218 ppm	4.2361 ppm	0.0037 ppm	0.2329 ppm
Concentration per Run 1	-0.0042 ppm	5.5142 ppm	0.0050 ppm	0.1227 ppm	4.2658 ppm	0.0063 ppm	0.2344 ppm
Concentration per Run 2	-0.0040 ppm	5.6765 ppm	0.0065 ppm	0.1223 ppm	4.2417 ppm	0.0015 ppm	0.2323 ppm
Concentration per Run 3	-0.0024 ppm	5.7908 ppm	0.0058 ppm	0.1203 ppm	4.2009 ppm	0.0034 ppm	0.2320 ppm
Concentration RSD	28.9 %	2.5 %	12.8 %	1.1 %	0.8 %	64.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5496 ppm	107.0333 %	105.0298 %	99.5603 %	119.0451 %	118.9666 %	120.3411 %
Concentration per Run 1	0.5553 ppm	106.0968 %	104.1418 %	99.7794 %	117.6608 %	118.0230 %	120.7204 %
Concentration per Run 2	0.5516 ppm	107.3142 %	105.0412 %	99.8398 %	119.3693 %	119.0937 %	120.6611 %
Concentration per Run 3	0.5420 ppm	107.6888 %	105.9065 %	99.0616 %	120.1051 %	119.7830 %	119.6417 %
Concentration RSD	1.3 %	0.8 %	0.8 %	0.4 %	1.1 %	0.7 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: eL2433078-01d2 WG1935350
Analysis started at: 6/17/2024 8:04:40 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0197 ppm	74.5497 ppm	0.2056 ppm	0.0182 ppm	1.0642 ppm	0.0031 ppm	28.0022 ppm
Concentration per Run 1	0.0192 ppm	74.3632 ppm	0.2058 ppm	0.0171 ppm	1.0642 ppm	0.0031 ppm	27.9694 ppm
Concentration per Run 2	0.0206 ppm	74.9375 ppm	0.2093 ppm	0.0198 ppm	1.0660 ppm	0.0031 ppm	28.0489 ppm
Concentration per Run 3	0.0193 ppm	74.3483 ppm	0.2017 ppm	0.0178 ppm	1.0626 ppm	0.0031 ppm	27.9883 ppm
Concentration RSD	3.9 %	0.5 %	1.8 %	7.7 %	0.2 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0881 ppm	0.2599 ppm	**30.1553 ppm**	**521.4262 ppm**	4.4986 ppm	0.1016 ppm
Concentration per Run 1	0.0001 ppm	0.0871 ppm	0.2568 ppm	29.9528 ppm	519.8915 ppm	4.4802 ppm	0.1027 ppm
Concentration per Run 2	-0.0001 ppm	0.0883 ppm	0.2612 ppm	30.2547 ppm	522.4419 ppm	4.5502 ppm	0.1020 ppm
Concentration per Run 3	0.0002 ppm	0.0888 ppm	0.2618 ppm	30.2583 ppm	521.9452 ppm	4.4655 ppm	0.1000 ppm
Concentration RSD	364.2 %	1.0 %	1.0 %	0.6 %	0.3 %	1.0 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.6085 ppm	4.4761 ppm	0.0130 ppm	1.1902 ppm	0.3590 ppm	7.2763 ppm	0.1265 ppm
Concentration per Run 1	31.5041 ppm	4.4906 ppm	0.0124 ppm	1.1762 ppm	0.3549 ppm	7.3006 ppm	0.1239 ppm
Concentration per Run 2	31.5346 ppm	4.4703 ppm	0.0138 ppm	1.2015 ppm	0.3609 ppm	7.3012 ppm	0.1279 ppm
Concentration per Run 3	31.7866 ppm	4.4674 ppm	0.0128 ppm	1.1928 ppm	0.3614 ppm	7.2271 ppm	0.1277 ppm
Concentration RSD	0.5 %	0.3 %	5.5 %	1.1 %	1.0 %	0.6 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	7.2546 ppm	6.1151 ppm	0.1891 ppm	3.2894 ppm	0.0053 ppm	0.5266 ppm
Concentration per Run 1	-0.0029 ppm	7.4231 ppm	6.1087 ppm	0.1887 ppm	3.2725 ppm	0.0027 ppm	0.5237 ppm
Concentration per Run 2	-0.0033 ppm	7.1795 ppm	6.1262 ppm	0.1893 ppm	3.2979 ppm	0.0054 ppm	0.5272 ppm
Concentration per Run 3	-0.0030 ppm	7.1612 ppm	6.1105 ppm	0.1894 ppm	3.2977 ppm	0.0078 ppm	0.5290 ppm
Concentration RSD	6.3 %	2.0 %	0.2 %	0.2 %	0.4 %	47.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	9.3615 ppm	103.3613 %	104.8488 %	94.0966 %	117.7138 %	121.7444 %	115.3642 %
Concentration per Run 1	9.3218 ppm	103.8963 %	105.1456 %	93.5142 %	118.4486 %	121.8889 %	114.8772 %
Concentration per Run 2	9.3904 ppm	102.8175 %	105.0712 %	95.0778 %	117.2366 %	122.1092 %	116.4470 %
Concentration per Run 3	9.3723 ppm	103.3702 %	104.3295 %	93.6976 %	117.4562 %	121.2351 %	114.7683 %
Concentration RSD	0.4 %	0.5 %	0.4 %	0.9 %	0.5 %	0.4 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: eL2433078-03d2 WG1935350
Analysis started at: 6/17/2024 8:08:07 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0231 ppm	91.1544 ppm	0.1245 ppm	0.0180 ppm	1.6302 ppm	0.0041 ppm	30.2698 ppm
Concentration per Run 1	0.0233 ppm	91.3242 ppm	0.1231 ppm	0.0171 ppm	1.6311 ppm	0.0041 ppm	30.2868 ppm
Concentration per Run 2	0.0229 ppm	91.2112 ppm	0.1276 ppm	0.0191 ppm	1.6317 ppm	0.0041 ppm	30.3192 ppm
Concentration per Run 3	0.0230 ppm	90.9278 ppm	0.1228 ppm	0.0179 ppm	1.6277 ppm	0.0040 ppm	30.2034 ppm
Concentration RSD	0.8 %	0.2 %	2.2 %	5.7 %	0.1 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0085 ppm	0.0973 ppm	0.3149 ppm	**23.5904 ppm**	**385.7897 ppm**	5.8637 ppm	0.1094 ppm
Concentration per Run 1	0.0084 ppm	0.0973 ppm	0.3157 ppm	23.5658 ppm	384.8276 ppm	5.9069 ppm	0.1103 ppm
Concentration per Run 2	0.0084 ppm	0.0969 ppm	0.3119 ppm	23.4577 ppm	387.2537 ppm	5.8456 ppm	0.1097 ppm
Concentration per Run 3	0.0086 ppm	0.0975 ppm	0.3173 ppm	23.7477 ppm	385.2877 ppm	5.8384 ppm	0.1080 ppm
Concentration RSD	1.2 %	0.3 %	0.9 %	0.6 %	0.3 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.6193 ppm	14.8118 ppm	0.0061 ppm	1.4856 ppm	0.3994 ppm	7.1859 ppm	0.0441 ppm
Concentration per Run 1	31.6251 ppm	14.8134 ppm	0.0058 ppm	1.5010 ppm	0.4001 ppm	7.1942 ppm	0.0421 ppm
Concentration per Run 2	31.4155 ppm	14.7974 ppm	0.0063 ppm	1.4769 ppm	0.3961 ppm	7.1940 ppm	0.0453 ppm
Concentration per Run 3	31.8172 ppm	14.8245 ppm	0.0062 ppm	1.4790 ppm	0.4019 ppm	7.1695 ppm	0.0448 ppm
Concentration RSD	0.6 %	0.1 %	4.5 %	0.9 %	0.8 %	0.2 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0102 ppm	6.0779 ppm	1.2132 ppm	0.2424 ppm	3.1863 ppm	0.0033 ppm	0.4216 ppm
Concentration per Run 1	-0.0111 ppm	5.9578 ppm	1.2135 ppm	0.2424 ppm	3.1782 ppm	0.0023 ppm	0.4221 ppm
Concentration per Run 2	-0.0091 ppm	6.1231 ppm	1.2057 ppm	0.2427 ppm	3.1696 ppm	0.0030 ppm	0.4205 ppm
Concentration per Run 3	-0.0105 ppm	6.1528 ppm	1.2205 ppm	0.2421 ppm	3.2111 ppm	0.0044 ppm	0.4222 ppm
Concentration RSD	10.2 %	1.7 %	0.6 %	0.1 %	0.7 %	31.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	10.0792 ppm	106.9587 %	105.9839 %	96.8467 %	120.9061 %	121.5372 %	117.1070 %
Concentration per Run 1	10.1193 ppm	105.9882 %	106.3309 %	96.4936 %	120.0624 %	122.3481 %	116.7372 %
Concentration per Run 2	9.9741 ppm	108.7319 %	105.4756 %	96.8793 %	122.5789 %	120.9173 %	117.0981 %
Concentration per Run 3	10.1441 ppm	106.1560 %	106.1451 %	97.1671 %	120.0771 %	121.3461 %	117.4857 %
Concentration RSD	0.9 %	1.4 %	0.4 %	0.3 %	1.2 %	0.6 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433078-04d2 WG1935350
Analysis started at: 6/17/2024 8:11:34 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0441 ppm	84.1374 ppm	0.1969 ppm	0.0362 ppm	3.2201 ppm	0.0036 ppm	39.4671 ppm
Concentration per Run 1	0.0437 ppm	84.1348 ppm	0.1968 ppm	0.0363 ppm	3.2108 ppm	0.0035 ppm	39.2769 ppm
Concentration per Run 2	0.0451 ppm	84.7024 ppm	0.1981 ppm	0.0375 ppm	3.2481 ppm	0.0036 ppm	39.8067 ppm
Concentration per Run 3	0.0436 ppm	83.5749 ppm	0.1958 ppm	0.0349 ppm	3.2013 ppm	0.0035 ppm	39.3176 ppm
Concentration RSD	1.8 %	0.7 %	0.6 %	3.6 %	0.8 %	1.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0321 ppm	0.1809 ppm	0.4968 ppm	185.1665 ppm	669.5666 ppm	5.5360 ppm	0.0889 ppm
Concentration per Run 1	0.0314 ppm	0.1806 ppm	0.4923 ppm	183.1072 ppm	665.8738 ppm	5.5565 ppm	0.0888 ppm
Concentration per Run 2	0.0330 ppm	0.1811 ppm	0.4964 ppm	185.6740 ppm	675.9770 ppm	5.5837 ppm	0.0899 ppm
Concentration per Run 3	0.0318 ppm	0.1811 ppm	0.5018 ppm	186.7184 ppm	666.8490 ppm	5.4679 ppm	0.0879 ppm
Concentration RSD	2.5 %	0.2 %	1.0 %	1.0 %	0.8 %	1.1 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.9217 ppm	13.0443 ppm	0.0110 ppm	1.7211 ppm	1.0797 ppm	40.4949 ppm	0.2022 ppm
Concentration per Run 1	24.7180 ppm	12.9862 ppm	0.0107 ppm	1.7399 ppm	1.0716 ppm	40.5205 ppm	0.2018 ppm
Concentration per Run 2	25.0323 ppm	13.1883 ppm	0.0107 ppm	1.7267 ppm	1.0780 ppm	40.7574 ppm	0.2003 ppm
Concentration per Run 3	25.0147 ppm	12.9585 ppm	0.0118 ppm	1.6967 ppm	1.0893 ppm	40.2069 ppm	0.2044 ppm
Concentration RSD	0.7 %	1.0 %	5.7 %	1.3 %	0.8 %	0.7 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0088 ppm	7.1753 ppm	10.0663 ppm	0.2902 ppm	3.1786 ppm	0.0051 ppm	0.4613 ppm
Concentration per Run 1	-0.0063 ppm	7.1417 ppm	9.9761 ppm	0.2897 ppm	3.1499 ppm	0.0049 ppm	0.4558 ppm
Concentration per Run 2	-0.0107 ppm	7.2023 ppm	10.0461 ppm	0.2927 ppm	3.1846 ppm	0.0052 ppm	0.4633 ppm
Concentration per Run 3	-0.0092 ppm	7.1820 ppm	10.1767 ppm	0.2880 ppm	3.2013 ppm	0.0053 ppm	0.4646 ppm
Concentration RSD	25.4 %	0.4 %	1.0 %	0.8 %	0.8 %	4.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	37.0954 ppm	101.9809 %	104.5524 %	91.0182 %	115.1162 %	120.0751 %	78.1268 %
Concentration per Run 1	36.7020 ppm	103.3865 %	105.6188 %	90.9223 %	116.5167 %	120.8196 %	77.8072 %
Concentration per Run 2	37.0616 ppm	102.4981 %	103.9196 %	90.5284 %	115.9129 %	119.7036 %	77.7035 %
Concentration per Run 3	37.5226 ppm	100.0582 %	104.1188 %	91.6039 %	112.9190 %	119.7022 %	78.8698 %
Concentration RSD	1.1 %	1.7 %	0.9 %	0.6 %	1.7 %	0.5 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433081-01d2 WG1935350
Analysis started at: 6/17/2024 8:15:02 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	58.7003 ppm	0.1160 ppm	0.0024 ppm	0.3124 ppm	0.0025 ppm	39.6403 ppm
Concentration per Run 1	0.0021 ppm	58.9088 ppm	0.1128 ppm	-0.0003 ppm	0.3121 ppm	0.0025 ppm	39.7603 ppm
Concentration per Run 2	0.0016 ppm	58.1830 ppm	0.1196 ppm	0.0045 ppm	0.3100 ppm	0.0024 ppm	39.4346 ppm
Concentration per Run 3	0.0014 ppm	59.0092 ppm	0.1156 ppm	0.0029 ppm	0.3150 ppm	0.0025 ppm	39.7261 ppm
Concentration RSD	21.7 %	0.8 %	2.9 %	102.6 %	0.8 %	1.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0021 ppm	0.0359 ppm	0.1491 ppm	0.1351 ppm	91.5464 ppm	11.2215 ppm	0.1139 ppm
Concentration per Run 1	-0.0019 ppm	0.0364 ppm	0.1508 ppm	0.1370 ppm	91.5926 ppm	11.2714 ppm	0.1134 ppm
Concentration per Run 2	-0.0022 ppm	0.0362 ppm	0.1488 ppm	0.1351 ppm	90.6696 ppm	11.1302 ppm	0.1134 ppm
Concentration per Run 3	-0.0022 ppm	0.0352 ppm	0.1475 ppm	0.1332 ppm	92.3770 ppm	11.2630 ppm	0.1150 ppm
Concentration RSD	7.0 %	1.9 %	1.1 %	1.4 %	0.9 %	0.7 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.8707 ppm	1.2498 ppm	0.0010 ppm	1.8040 ppm	0.1160 ppm	0.2920 ppm	0.0028 ppm
Concentration per Run 1	27.0874 ppm	1.2547 ppm	0.0006 ppm	1.8050 ppm	0.1180 ppm	0.2908 ppm	0.0028 ppm
Concentration per Run 2	26.9336 ppm	1.2396 ppm	0.0014 ppm	1.8042 ppm	0.1170 ppm	0.2946 ppm	0.0011 ppm
Concentration per Run 3	26.5909 ppm	1.2552 ppm	0.0009 ppm	1.8027 ppm	0.1129 ppm	0.2907 ppm	0.0045 ppm
Concentration RSD	0.9 %	0.7 %	39.0 %	0.1 %	2.3 %	0.8 %	60.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	4.6654 ppm	0.0534 ppm	0.1044 ppm	3.0013 ppm	0.0029 ppm	0.1255 ppm
Concentration per Run 1	0.0037 ppm	4.7117 ppm	0.0544 ppm	0.1047 ppm	3.0305 ppm	0.0038 ppm	0.1260 ppm
Concentration per Run 2	0.0009 ppm	4.6757 ppm	0.0541 ppm	0.1038 ppm	3.0074 ppm	0.0028 ppm	0.1268 ppm
Concentration per Run 3	-0.0012 ppm	4.6088 ppm	0.0517 ppm	0.1047 ppm	2.9661 ppm	0.0021 ppm	0.1238 ppm
Concentration RSD	216.4 %	1.1 %	2.8 %	0.5 %	1.1 %	30.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4445 ppm	105.3585 %	103.9285 %	101.4264 %	113.5723 %	113.5036 %	115.5684 %
Concentration per Run 1	0.4499 ppm	104.8612 %	103.6266 %	101.1665 %	113.0085 %	113.2398 %	115.1726 %
Concentration per Run 2	0.4455 ppm	104.6824 %	103.7357 %	100.6340 %	112.9579 %	113.5862 %	114.6779 %
Concentration per Run 3	0.4382 ppm	106.5320 %	104.4233 %	102.4786 %	114.7505 %	113.6848 %	116.8546 %
Concentration RSD	1.3 %	1.0 %	0.4 %	0.9 %	0.9 %	0.2 %	1.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433730-01d2 WG1935350
Analysis started at: 6/17/2024 8:18:30 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0048 ppm	81.6946 ppm	0.0316 ppm	-0.0006 ppm	0.4320 ppm	0.0045 ppm	15.3898 ppm
Concentration per Run 1	0.0045 ppm	81.7087 ppm	0.0322 ppm	-0.0008 ppm	0.4328 ppm	0.0044 ppm	15.3685 ppm
Concentration per Run 2	0.0054 ppm	81.6200 ppm	0.0337 ppm	0.0000 ppm	0.4300 ppm	0.0047 ppm	15.3941 ppm
Concentration per Run 3	0.0044 ppm	81.7551 ppm	0.0290 ppm	-0.0011 ppm	0.4332 ppm	0.0045 ppm	15.4068 ppm
Concentration RSD	11.0 %	0.1 %	7.6 %	91.6 %	0.4 %	4.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0050 ppm	0.1045 ppm	0.1846 ppm	0.2943 ppm	**206.7458 ppm**	5.1276 ppm	0.0880 ppm
Concentration per Run 1	-0.0049 ppm	0.1048 ppm	0.1859 ppm	0.2934 ppm	205.8393 ppm	5.1533 ppm	0.0892 ppm
Concentration per Run 2	-0.0052 ppm	0.1054 ppm	0.1844 ppm	0.2955 ppm	207.3637 ppm	5.1140 ppm	0.0868 ppm
Concentration per Run 3	-0.0049 ppm	0.1033 ppm	0.1833 ppm	0.2940 ppm	207.0344 ppm	5.1156 ppm	0.0879 ppm
Concentration RSD	3.3 %	1.1 %	0.7 %	0.4 %	0.4 %	0.4 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.4910 ppm	4.0616 ppm	0.0034 ppm	0.3822 ppm	0.1324 ppm	0.1643 ppm	-0.0010 ppm
Concentration per Run 1	36.5788 ppm	4.0659 ppm	0.0029 ppm	0.3811 ppm	0.1336 ppm	0.1624 ppm	-0.0026 ppm
Concentration per Run 2	36.5047 ppm	4.0477 ppm	0.0035 ppm	0.3810 ppm	0.1312 ppm	0.1635 ppm	-0.0004 ppm
Concentration per Run 3	36.3896 ppm	4.0711 ppm	0.0036 ppm	0.3845 ppm	0.1325 ppm	0.1670 ppm	-0.0001 ppm
Concentration RSD	0.3 %	0.3 %	11.6 %	0.5 %	0.9 %	1.5 %	130.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	5.9501 ppm	0.0107 ppm	0.0692 ppm	3.2478 ppm	0.0034 ppm	0.2981 ppm
Concentration per Run 1	-0.0015 ppm	5.8541 ppm	0.0111 ppm	0.0693 ppm	3.2456 ppm	0.0034 ppm	0.2990 ppm
Concentration per Run 2	-0.0012 ppm	6.0544 ppm	0.0108 ppm	0.0691 ppm	3.2403 ppm	0.0037 ppm	0.2980 ppm
Concentration per Run 3	-0.0054 ppm	5.9417 ppm	0.0102 ppm	0.0694 ppm	3.2574 ppm	0.0031 ppm	0.2973 ppm
Concentration RSD	87.7 %	1.7 %	4.6 %	0.2 %	0.3 %	8.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5692 ppm	110.7025 %	107.0176 %	101.0043 %	124.4721 %	121.9608 %	122.4903 %
Concentration per Run 1	0.5732 ppm	109.5397 %	107.7549 %	100.5864 %	123.0855 %	122.4459 %	122.0940 %
Concentration per Run 2	0.5674 ppm	110.8274 %	106.9545 %	100.4900 %	124.7240 %	122.4103 %	122.1941 %
Concentration per Run 3	0.5670 ppm	111.7403 %	106.3434 %	101.9366 %	125.6069 %	121.0263 %	123.1828 %
Concentration RSD	0.6 %	1.0 %	0.7 %	0.8 %	1.0 %	0.7 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 8:21:59 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5124 ppm	0.4868 ppm	0.4696 ppm	0.4967 ppm	0.5050 ppm	0.5149 ppm	0.4985 ppm
Concentration per Run 1	0.5088 ppm	0.4839 ppm	0.4681 ppm	0.4927 ppm	0.4996 ppm	0.5091 ppm	0.5000 ppm
Concentration per Run 2	0.5151 ppm	0.4850 ppm	0.4726 ppm	0.4990 ppm	0.5084 ppm	0.5178 ppm	0.4979 ppm
Concentration per Run 3	0.5131 ppm	0.4916 ppm	0.4681 ppm	0.4985 ppm	0.5071 ppm	0.5178 ppm	0.4975 ppm
Recovery Percentage 1	102.470 %	97.364 %	93.922 %	99.341 %	101.004 %	102.979 %	99.691 %
Concentration RSD	0.6 %	0.9 %	0.5 %	0.7 %	0.9 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5082 ppm	0.5174 ppm	0.4950 ppm	0.5000 ppm	0.5218 ppm	5.1998 ppm	0.5020 ppm
Concentration per Run 1	0.5135 ppm	0.5196 ppm	0.4944 ppm	0.4951 ppm	0.5172 ppm	5.1590 ppm	0.4999 ppm
Concentration per Run 2	0.5065 ppm	0.5173 ppm	0.4968 ppm	0.5024 ppm	0.5256 ppm	5.2336 ppm	0.5040 ppm
Concentration per Run 3	0.5045 ppm	0.5152 ppm	0.4939 ppm	0.5025 ppm	0.5226 ppm	5.2068 ppm	0.5021 ppm
Recovery Percentage 1	101.635 %	103.477 %	99.002 %	99.994 %	104.358 %	103.997 %	100.399 %
Concentration RSD	0.9 %	0.4 %	0.3 %	0.9 %	0.8 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4952 ppm	0.4902 ppm	0.4976 ppm	9.9363 ppm	0.5131 ppm	0.4927 ppm	0.5121 ppm
Concentration per Run 1	0.4940 ppm	0.4872 ppm	0.4937 ppm	9.8538 ppm	0.5127 ppm	0.4937 ppm	0.5034 ppm
Concentration per Run 2	0.4956 ppm	0.4900 ppm	0.4983 ppm	9.9646 ppm	0.5153 ppm	0.4948 ppm	0.5221 ppm
Concentration per Run 3	0.4959 ppm	0.4934 ppm	0.5009 ppm	9.9904 ppm	0.5112 ppm	0.4897 ppm	0.5108 ppm
Recovery Percentage 1	99.033 %	98.038 %	99.530 %	99.363 %	102.614 %	98.539 %	102.419 %
Concentration RSD	0.2 %	0.6 %	0.7 %	0.7 %	0.4 %	0.5 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4802 ppm	5.7102 ppm	0.5381 ppm	0.5000 ppm	0.5076 ppm	0.4909 ppm	0.4933 ppm
Concentration per Run 1	0.4809 ppm	5.6739 ppm	0.5381 ppm	0.4946 ppm	0.5071 ppm	0.4918 ppm	0.4939 ppm
Concentration per Run 2	0.4796 ppm	5.7449 ppm	0.5394 ppm	0.5031 ppm	0.5082 ppm	0.4913 ppm	0.4927 ppm
Concentration per Run 3	0.4802 ppm	5.7118 ppm	0.5368 ppm	0.5022 ppm	0.5075 ppm	0.4896 ppm	0.4934 ppm
Recovery Percentage 1	96.048 %	108.766 %	107.612 %	99.994 %	101.524 %	98.177 %	98.667 %
Concentration RSD	0.1 %	0.6 %	0.2 %	0.9 %	0.1 %	0.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5233 ppm	103.9675 %	102.4749 %	104.3541 %	102.8167 %	102.4122 %	104.9593 %
Concentration per Run 1	0.5242 ppm	103.0977 %	102.7599 %	104.5010 %	101.8604 %	102.8821 %	105.3021 %
Concentration per Run 2	0.5218 ppm	104.4227 %	102.5229 %	104.4493 %	103.1589 %	102.2660 %	104.9789 %
Concentration per Run 3	0.5238 ppm	104.3820 %	102.1417 %	104.1120 %	103.4307 %	102.0885 %	104.5970 %
Recovery Percentage 1	104.650 %						
Concentration RSD	0.3 %	0.7 %	0.3 %	0.2 %	0.8 %	0.4 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 8:25:28 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0014 ppm	0.0008 ppm	-0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0006 ppm	0.0020 ppm	0.0004 ppm	-0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run 2	-0.0008 ppm	-0.0031 ppm	0.0020 ppm	-0.0035 ppm	0.0002 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 3	-0.0008 ppm	0.0053 ppm	0.0000 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Recovery Percentage 1	-10.570 %	1.402 %	15.937 %	-7.681 %	1.437 %	0.315 %	6.224 %
Concentration RSD	16.8 %	300.0 %	133.8 %	43.9 %	65.4 %	158.5 %	31.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0041 ppm	0.0016 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0019 ppm	0.0129 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0008 ppm	0.0044 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0060 ppm	-0.0082 ppm	-0.0001 ppm
Recovery Percentage 1	-0.736 %	0.480 %	-2.745 %	5.658 %	8.220 %	0.064 %	0.175 %
Concentration RSD	170.6 %	413.8 %	136.8 %	54.3 %	50.1 %	667.2 %	9,300.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0018 ppm	0.0001 ppm	0.0011 ppm	-0.0194 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm
Concentration per Run 1	0.0022 ppm	0.0000 ppm	0.0014 ppm	-0.0215 ppm	-0.0001 ppm	-0.0003 ppm	-0.0011 ppm
Concentration per Run 2	0.0016 ppm	0.0002 ppm	0.0008 ppm	-0.0168 ppm	-0.0004 ppm	-0.0007 ppm	0.0044 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	0.0011 ppm	-0.0199 ppm	0.0001 ppm	-0.0004 ppm	0.0044 ppm
Recovery Percentage 1	1.785 %	1.439 %	2.248 %	-0.971 %	-0.577 %	-4.384 %	5.095 %
Concentration RSD	18.9 %	93.9 %	24.9 %	12.2 %	165.6 %	47.2 %	124.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0020 ppm	0.0006 ppm	0.0001 ppm	0.0007 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	-0.0017 ppm	-0.0005 ppm	0.0016 ppm	0.0001 ppm	0.0005 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	0.0017 ppm	-0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	0.0015 ppm	-0.0042 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm	-0.0018 ppm	-0.0001 ppm
Recovery Percentage 1	4.933 %	-0.391 %	1.259 %	0.644 %	6.738 %	-4.431 %	-1.134 %
Concentration RSD	387.5 %	100.2 %	143.1 %	73.4 %	24.0 %	186.5 %	22.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	105.7751 %	98.7338 %	104.4455 %	106.0528 %	99.6313 %	104.9183 %
Concentration per Run 1	-0.0005 ppm	104.9919 %	97.5024 %	104.7599 %	105.2403 %	98.7665 %	105.1318 %
Concentration per Run 2	-0.0004 ppm	106.8876 %	99.7666 %	104.1723 %	107.1196 %	100.0830 %	104.9151 %
Concentration per Run 3	-0.0005 ppm	105.4459 %	98.9323 %	104.4042 %	105.7985 %	100.0444 %	104.7082 %
Recovery Percentage 1	-9.533 %						
Concentration RSD	10.9 %	0.9 %	1.2 %	0.3 %	0.9 %	0.8 %	0.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1934744-1 WG1934744
Analysis started at: 6/17/2024 8:29:05 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0002 ppm	0.0010 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	-0.0009 ppm	0.0072 ppm	0.0021 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 2	-0.0003 ppm	-0.0092 ppm	0.0007 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 3	-0.0006 ppm	0.0027 ppm	0.0003 ppm	-0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0056 ppm
Recovery Percentage 1	-8.331 %	0.233 %	20.936 %	-4.926 %	1.083 %	-0.635 %	3.229 %
Concentration RSD	49.9 %	3,630.9 %	90.8 %	92.0 %	86.0 %	118.1 %	66.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0038 ppm	-0.0021 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0023 ppm	-0.0115 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0049 ppm	0.0228 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm	0.0044 ppm	-0.0176 ppm	0.0016 ppm
Recovery Percentage 1	-0.848 %	0.209 %	0.831 %	2.649 %	7.700 %	-0.084 %	10.318 %
Concentration RSD	212.6 %	500.7 %	620.3 %	77.0 %	34.6 %	1,035.9 %	183.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0024 ppm	0.0001 ppm	-0.0006 ppm	-0.0163 ppm	0.0000 ppm	0.0014 ppm	0.0033 ppm
Concentration per Run 1	0.0028 ppm	0.0001 ppm	-0.0009 ppm	-0.0172 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0019 ppm	0.0001 ppm	-0.0006 ppm	-0.0181 ppm	0.0001 ppm	0.0020 ppm	0.0046 ppm
Concentration per Run 3	0.0025 ppm	0.0001 ppm	-0.0002 ppm	-0.0135 ppm	-0.0003 ppm	0.0013 ppm	0.0050 ppm
Recovery Percentage 1	2.418 %	1.007 %	-1.144 %	-0.814 %	0.040 %	13.907 %	6.511 %
Concentration RSD	17.9 %	5.4 %	62.3 %	15.2 %	2,832.8 %	44.4 %	81.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0089 ppm	-0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0012 ppm	-0.0096 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 2	-0.0045 ppm	-0.0101 ppm	-0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0071 ppm	-0.0003 ppm	0.0001 ppm	0.0003 ppm	-0.0014 ppm	-0.0001 ppm
Recovery Percentage 1	-10.466 %	-1.783 %	-1.630 %	0.597 %	1.463 %	-3.628 %	-0.317 %
Concentration RSD	287.6 %	18.3 %	54.6 %	120.1 %	116.8 %	195.4 %	77.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	105.3766 %	102.3209 %	106.5650 %	105.6244 %	103.0802 %	105.8308 %
Concentration per Run 1	0.0017 ppm	104.6849 %	102.0310 %	106.8919 %	105.4284 %	102.9007 %	106.2744 %
Concentration per Run 2	0.0011 ppm	106.2266 %	101.9867 %	107.1279 %	106.2144 %	102.7008 %	106.2451 %
Concentration per Run 3	0.0016 ppm	105.2183 %	102.9449 %	105.6752 %	105.2305 %	103.6390 %	104.9729 %
Recovery Percentage 1	29.945 %						
Concentration RSD	21.6 %	0.7 %	0.5 %	0.7 %	0.5 %	0.5 %	0.7 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1934744-2 WG1934744
Analysis started at: 6/17/2024 8:32:35 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0513 ppm	2.0351 ppm	0.1221 ppm	1.0160 ppm	2.0678 ppm	0.0524 ppm	10.5330 ppm
Concentration per Run 1	0.0515 ppm	2.0273 ppm	0.1226 ppm	1.0166 ppm	2.0698 ppm	0.0524 ppm	10.4871 ppm
Concentration per Run 2	0.0514 ppm	2.0425 ppm	0.1197 ppm	1.0176 ppm	2.0743 ppm	0.0526 ppm	10.6025 ppm
Concentration per Run 3	0.0509 ppm	2.0356 ppm	0.1241 ppm	1.0137 ppm	2.0594 ppm	0.0523 ppm	10.5093 ppm
Concentration RSD	0.7 %	0.4 %	1.8 %	0.2 %	0.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0559 ppm	0.5151 ppm	0.2008 ppm	0.2546 ppm	1.0532 ppm	10.8771 ppm	0.0005 ppm
Concentration per Run 1	0.0559 ppm	0.5181 ppm	0.2023 ppm	0.2578 ppm	1.0513 ppm	10.9002 ppm	0.0016 ppm
Concentration per Run 2	0.0557 ppm	0.5119 ppm	0.2006 ppm	0.2534 ppm	1.0570 ppm	10.8913 ppm	0.0001 ppm
Concentration per Run 3	0.0560 ppm	0.5154 ppm	0.1997 ppm	0.2526 ppm	1.0511 ppm	10.8399 ppm	-0.0004 ppm
Concentration RSD	0.3 %	0.6 %	0.7 %	1.1 %	0.3 %	0.3 %	226.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1840 ppm	0.5203 ppm	0.9106 ppm	10.7123 ppm	0.5142 ppm	0.5413 ppm	0.4339 ppm
Concentration per Run 1	10.2516 ppm	0.5200 ppm	0.9021 ppm	10.6572 ppm	0.5170 ppm	0.5405 ppm	0.4308 ppm
Concentration per Run 2	10.1893 ppm	0.5219 ppm	0.9087 ppm	10.7705 ppm	0.5106 ppm	0.5401 ppm	0.4327 ppm
Concentration per Run 3	10.1110 ppm	0.5189 ppm	0.9209 ppm	10.7092 ppm	0.5148 ppm	0.5434 ppm	0.4381 ppm
Concentration RSD	0.7 %	0.3 %	1.1 %	0.5 %	0.6 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1218 ppm	1.1104 ppm	1.0166 ppm	1.0013 ppm	1.0317 ppm	0.1235 ppm	0.5063 ppm
Concentration per Run 1	0.1196 ppm	1.1202 ppm	1.0204 ppm	0.9988 ppm	1.0378 ppm	0.1246 ppm	0.5095 ppm
Concentration per Run 2	0.1237 ppm	1.1096 ppm	1.0131 ppm	1.0042 ppm	1.0289 ppm	0.1214 ppm	0.5039 ppm
Concentration per Run 3	0.1222 ppm	1.1016 ppm	1.0164 ppm	1.0008 ppm	1.0284 ppm	0.1245 ppm	0.5054 ppm
Concentration RSD	1.7 %	0.8 %	0.4 %	0.3 %	0.5 %	1.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5148 ppm	104.5710 %	101.6604 %	103.0433 %	103.1123 %	101.8355 %	103.6248 %
Concentration per Run 1	0.5169 ppm	104.5595 %	101.7338 %	102.5149 %	103.1336 %	101.8632 %	103.3908 %
Concentration per Run 2	0.5131 ppm	104.8548 %	100.0535 %	103.6967 %	103.2197 %	100.3905 %	103.9501 %
Concentration per Run 3	0.5145 ppm	104.2986 %	103.1938 %	102.9183 %	102.9837 %	103.2529 %	103.5337 %
Concentration RSD	0.4 %	0.3 %	1.5 %	0.6 %	0.1 %	1.4 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433067-03 WG1934744
Analysis started at: 6/17/2024 8:36:05 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0068 ppm	0.0015 ppm	0.0117 ppm	0.0053 ppm	0.0000 ppm	27.8198 ppm
Concentration per Run 1	-0.0012 ppm	0.0046 ppm	0.0007 ppm	0.0111 ppm	0.0051 ppm	0.0000 ppm	27.4331 ppm
Concentration per Run 2	-0.0008 ppm	0.0119 ppm	0.0007 ppm	0.0129 ppm	0.0052 ppm	0.0000 ppm	28.0033 ppm
Concentration per Run 3	-0.0008 ppm	0.0038 ppm	0.0031 ppm	0.0110 ppm	0.0055 ppm	0.0000 ppm	28.0230 ppm
Concentration RSD	24.0 %	66.4 %	93.3 %	8.9 %	3.6 %	107.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0015 ppm	0.0782 ppm	2.5786 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	-0.0003 ppm	0.0016 ppm	0.0768 ppm	2.5599 ppm	0.0018 ppm
Concentration per Run 2	-0.0003 ppm	0.0016 ppm	0.0002 ppm	0.0015 ppm	0.0795 ppm	2.6023 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0007 ppm	0.0014 ppm	0.0782 ppm	2.5735 ppm	0.0011 ppm
Concentration RSD	139.2 %	36.0 %	221.7 %	6.0 %	1.7 %	0.8 %	67.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9891 ppm	0.9825 ppm	0.0080 ppm	106.9816 ppm	0.0036 ppm	0.0003 ppm	0.0040 ppm
Concentration per Run 1	6.0588 ppm	0.9697 ppm	0.0086 ppm	105.3848 ppm	0.0038 ppm	-0.0014 ppm	0.0062 ppm
Concentration per Run 2	5.9634 ppm	0.9875 ppm	0.0075 ppm	108.2608 ppm	0.0030 ppm	0.0012 ppm	0.0007 ppm
Concentration per Run 3	5.9452 ppm	0.9905 ppm	0.0079 ppm	107.2993 ppm	0.0041 ppm	0.0010 ppm	0.0049 ppm
Concentration RSD	1.0 %	1.1 %	6.6 %	1.4 %	15.0 %	543.7 %	72.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	4.5766 ppm	0.0030 ppm	0.1867 ppm	0.0010 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 1	-0.0016 ppm	4.6146 ppm	0.0040 ppm	0.1839 ppm	0.0007 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0009 ppm	4.5732 ppm	0.0015 ppm	0.1884 ppm	0.0011 ppm	0.0009 ppm	-0.0004 ppm
Concentration per Run 3	0.0028 ppm	4.5421 ppm	0.0034 ppm	0.1877 ppm	0.0012 ppm	0.0016 ppm	-0.0003 ppm
Concentration RSD	2,735.3 %	0.8 %	43.4 %	1.3 %	25.7 %	129.9 %	117.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	101.1307 %	100.4760 %	97.7145 %	99.6471 %	100.5785 %	101.5447 %
Concentration per Run 1	-0.0004 ppm	100.3538 %	101.7712 %	97.4646 %	99.0747 %	102.1122 %	101.4474 %
Concentration per Run 2	-0.0004 ppm	100.8214 %	99.0562 %	97.2597 %	99.3237 %	98.9598 %	100.8712 %
Concentration per Run 3	-0.0006 ppm	102.2170 %	100.6004 %	98.4191 %	100.5428 %	100.6635 %	102.3155 %
Concentration RSD	18.6 %	1.0 %	1.4 %	0.6 %	0.8 %	1.6 %	0.7 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433078-01d4 WG1935350
Analysis started at: 6/17/2024 8:39:35 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0101 ppm	37.6345 ppm	0.0995 ppm	0.0075 ppm	0.5367 ppm	0.0016 ppm	14.3696 ppm
Concentration per Run 1	0.0101 ppm	37.6717 ppm	0.0966 ppm	0.0064 ppm	0.5358 ppm	0.0015 ppm	14.3660 ppm
Concentration per Run 2	0.0103 ppm	37.5332 ppm	0.1015 ppm	0.0077 ppm	0.5374 ppm	0.0016 ppm	14.3661 ppm
Concentration per Run 3	0.0099 ppm	37.6986 ppm	0.1005 ppm	0.0085 ppm	0.5368 ppm	0.0016 ppm	14.3768 ppm
Concentration RSD	1.9 %	0.2 %	2.6 %	13.9 %	0.1 %	2.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0460 ppm	0.1314 ppm	15.1019 ppm	279.1067 ppm	2.3353 ppm	0.0518 ppm
Concentration per Run 1	0.0000 ppm	0.0463 ppm	0.1328 ppm	15.2325 ppm	277.9338 ppm	2.3641 ppm	0.0524 ppm
Concentration per Run 2	-0.0001 ppm	0.0455 ppm	0.1302 ppm	15.0626 ppm	279.8535 ppm	2.3089 ppm	0.0516 ppm
Concentration per Run 3	-0.0003 ppm	0.0463 ppm	0.1311 ppm	15.0104 ppm	279.5327 ppm	2.3328 ppm	0.0514 ppm
Concentration RSD	104.0 %	1.0 %	1.0 %	0.8 %	0.4 %	1.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.0839 ppm	2.2840 ppm	0.0062 ppm	0.6322 ppm	0.1843 ppm	3.5979 ppm	0.0670 ppm
Concentration per Run 1	16.2791 ppm	2.2798 ppm	0.0059 ppm	0.6496 ppm	0.1854 ppm	3.5862 ppm	0.0672 ppm
Concentration per Run 2	15.9748 ppm	2.2831 ppm	0.0066 ppm	0.6199 ppm	0.1853 ppm	3.5672 ppm	0.0683 ppm
Concentration per Run 3	15.9977 ppm	2.2892 ppm	0.0061 ppm	0.6272 ppm	0.1822 ppm	3.6402 ppm	0.0656 ppm
Concentration RSD	1.1 %	0.2 %	6.4 %	2.4 %	1.0 %	1.1 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	4.8187 ppm	3.1003 ppm	0.0947 ppm	1.6773 ppm	0.0013 ppm	0.2609 ppm
Concentration per Run 1	-0.0003 ppm	4.7564 ppm	3.1358 ppm	0.0949 ppm	1.6798 ppm	0.0004 ppm	0.2635 ppm
Concentration per Run 2	-0.0015 ppm	4.8375 ppm	3.0978 ppm	0.0946 ppm	1.6785 ppm	0.0015 ppm	0.2603 ppm
Concentration per Run 3	0.0019 ppm	4.8622 ppm	3.0673 ppm	0.0947 ppm	1.6735 ppm	0.0021 ppm	0.2590 ppm
Concentration RSD	3,110.9 %	1.1 %	1.1 %	0.2 %	0.2 %	63.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.8506 ppm	104.7077 %	103.7543 %	98.3994 %	110.9513 %	112.1409 %	109.6617 %
Concentration per Run 1	4.9149 ppm	103.8959 %	104.0146 %	98.7572 %	110.1572 %	112.4410 %	109.4736 %
Concentration per Run 2	4.8469 ppm	104.4911 %	103.8079 %	98.9649 %	110.8569 %	112.1230 %	110.5932 %
Concentration per Run 3	4.7900 ppm	105.7360 %	103.4403 %	97.4761 %	111.8397 %	111.8588 %	108.9183 %
Concentration RSD	1.3 %	0.9 %	0.3 %	0.8 %	0.8 %	0.3 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433078-03d4 WG1935350
Analysis started at: 6/17/2024 8:43:04 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0115 ppm	47.0704 ppm	0.0626 ppm	0.0080 ppm	0.8419 ppm	0.0022 ppm	15.8561 ppm
Concentration per Run 1	0.0122 ppm	47.2366 ppm	0.0654 ppm	0.0103 ppm	0.8457 ppm	0.0021 ppm	15.9449 ppm
Concentration per Run 2	0.0116 ppm	46.7236 ppm	0.0625 ppm	0.0077 ppm	0.8305 ppm	0.0022 ppm	15.7213 ppm
Concentration per Run 3	0.0109 ppm	47.2510 ppm	0.0599 ppm	0.0058 ppm	0.8494 ppm	0.0021 ppm	15.9020 ppm
Concentration RSD	5.7 %	0.6 %	4.4 %	28.4 %	1.2 %	1.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0521 ppm	0.1646 ppm	12.1664 ppm	208.0729 ppm	3.1360 ppm	0.0562 ppm
Concentration per Run 1	0.0045 ppm	0.0516 ppm	0.1645 ppm	12.2144 ppm	209.4301 ppm	3.1479 ppm	0.0571 ppm
Concentration per Run 2	0.0044 ppm	0.0532 ppm	0.1632 ppm	12.2089 ppm	206.7164 ppm	3.1123 ppm	0.0558 ppm
Concentration per Run 3	0.0045 ppm	0.0516 ppm	0.1662 ppm	12.0759 ppm	208.0722 ppm	3.1477 ppm	0.0556 ppm
Concentration RSD	1.2 %	1.8 %	0.9 %	0.6 %	0.7 %	0.7 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7126 ppm	7.7609 ppm	0.0029 ppm	0.8204 ppm	0.2104 ppm	3.5920 ppm	0.0216 ppm
Concentration per Run 1	16.7759 ppm	7.8072 ppm	0.0029 ppm	0.8250 ppm	0.2117 ppm	3.5820 ppm	0.0239 ppm
Concentration per Run 2	16.6989 ppm	7.6903 ppm	0.0025 ppm	0.8087 ppm	0.2081 ppm	3.5921 ppm	0.0224 ppm
Concentration per Run 3	16.6631 ppm	7.7851 ppm	0.0034 ppm	0.8275 ppm	0.2112 ppm	3.6019 ppm	0.0185 ppm
Concentration RSD	0.3 %	0.8 %	14.1 %	1.2 %	0.9 %	0.3 %	12.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	4.3874 ppm	0.6416 ppm	0.1245 ppm	1.6814 ppm	0.0013 ppm	0.2162 ppm
Concentration per Run 1	-0.0050 ppm	4.3241 ppm	0.6478 ppm	0.1252 ppm	1.7069 ppm	0.0022 ppm	0.2161 ppm
Concentration per Run 2	-0.0038 ppm	4.3474 ppm	0.6394 ppm	0.1240 ppm	1.6705 ppm	0.0014 ppm	0.2174 ppm
Concentration per Run 3	-0.0027 ppm	4.4906 ppm	0.6376 ppm	0.1242 ppm	1.6667 ppm	0.0004 ppm	0.2151 ppm
Concentration RSD	30.3 %	2.1 %	0.8 %	0.5 %	1.3 %	69.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.4018 ppm	104.4520 %	102.2251 %	100.1500 %	110.2201 %	110.4418 %	110.8038 %
Concentration per Run 1	5.4505 ppm	103.7531 %	101.8503 %	99.9074 %	109.5655 %	110.0674 %	110.7408 %
Concentration per Run 2	5.3460 ppm	104.3789 %	102.9014 %	101.3708 %	110.2137 %	111.2163 %	111.8338 %
Concentration per Run 3	5.4090 ppm	105.2240 %	101.9235 %	99.1720 %	110.8810 %	110.0417 %	109.8369 %
Concentration RSD	1.0 %	0.7 %	0.6 %	1.1 %	0.6 %	0.6 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: eL2433078-04d10 WG1935350
Analysis started at: 6/17/2024 8:46:33 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0085 ppm	16.0093 ppm	0.0345 ppm	0.0070 ppm	0.6135 ppm	0.0007 ppm	7.7208 ppm
Concentration per Run 1	0.0083 ppm	15.9109 ppm	0.0349 ppm	0.0058 ppm	0.6108 ppm	0.0007 ppm	7.6895 ppm
Concentration per Run 2	0.0090 ppm	16.0124 ppm	0.0348 ppm	0.0070 ppm	0.6123 ppm	0.0007 ppm	7.6860 ppm
Concentration per Run 3	0.0082 ppm	16.1044 ppm	0.0338 ppm	0.0084 ppm	0.6174 ppm	0.0007 ppm	7.7869 ppm
Concentration RSD	5.3 %	0.6 %	1.8 %	18.8 %	0.6 %	3.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0062 ppm	0.0365 ppm	0.0961 ppm	**41.0645 ppm**	144.7604 ppm	1.0423 ppm	0.0172 ppm
Concentration per Run 1	0.0062 ppm	0.0368 ppm	0.0957 ppm	41.0060 ppm	144.2768 ppm	1.0489 ppm	0.0174 ppm
Concentration per Run 2	0.0062 ppm	0.0367 ppm	0.0967 ppm	41.0728 ppm	144.1447 ppm	1.0339 ppm	0.0168 ppm
Concentration per Run 3	0.0061 ppm	0.0361 ppm	0.0960 ppm	41.1148 ppm	145.8597 ppm	1.0441 ppm	0.0172 ppm
Concentration RSD	0.8 %	1.1 %	0.5 %	0.1 %	0.7 %	0.7 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.0293 ppm	2.5653 ppm	0.0009 ppm	0.3129 ppm	0.2158 ppm	7.6466 ppm	0.0403 ppm
Concentration per Run 1	5.0173 ppm	2.5620 ppm	0.0007 ppm	0.3107 ppm	0.2161 ppm	7.6690 ppm	0.0405 ppm
Concentration per Run 2	5.0467 ppm	2.5533 ppm	0.0012 ppm	0.3179 ppm	0.2173 ppm	7.6483 ppm	0.0400 ppm
Concentration per Run 3	5.0239 ppm	2.5806 ppm	0.0009 ppm	0.3101 ppm	0.2139 ppm	7.6227 ppm	0.0404 ppm
Concentration RSD	0.3 %	0.5 %	25.6 %	1.4 %	0.8 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	1.3615 ppm	1.9765 ppm	0.0547 ppm	0.6063 ppm	-0.0011 ppm	0.0862 ppm
Concentration per Run 1	-0.0002 ppm	1.3563 ppm	1.9690 ppm	0.0543 ppm	0.6056 ppm	0.0000 ppm	0.0862 ppm
Concentration per Run 2	-0.0005 ppm	1.3723 ppm	1.9819 ppm	0.0545 ppm	0.6085 ppm	-0.0024 ppm	0.0864 ppm
Concentration per Run 3	-0.0010 ppm	1.3559 ppm	1.9785 ppm	0.0553 ppm	0.6048 ppm	-0.0009 ppm	0.0860 ppm
Concentration RSD	62.8 %	0.7 %	0.3 %	0.9 %	0.3 %	107.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.9446 ppm	106.3737 %	102.1741 %	101.0958 %	107.6640 %	105.2442 %	98.9403 %
Concentration per Run 1	7.9309 ppm	107.4998 %	102.1122 %	100.8509 %	108.7630 %	105.1559 %	99.0588 %
Concentration per Run 2	7.9598 ppm	105.8115 %	102.7964 %	100.0567 %	106.9508 %	105.8301 %	97.5538 %
Concentration per Run 3	7.9432 ppm	105.8098 %	101.6136 %	102.3799 %	107.2782 %	104.7465 %	100.2082 %
Concentration RSD	0.2 %	0.9 %	0.6 %	1.2 %	0.9 %	0.5 %	1.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: eL2433078-04d20 WG1935350
Analysis started at: 6/17/2024 8:52:08 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0043 ppm	8.0682 ppm	0.0185 ppm	0.0030 ppm	0.3123 ppm	0.0003 ppm	3.8920 ppm
Concentration per Run 1	0.0043 ppm	8.1520 ppm	0.0172 ppm	0.0032 ppm	0.3164 ppm	0.0004 ppm	3.9205 ppm
Concentration per Run 2	0.0043 ppm	7.9685 ppm	0.0196 ppm	0.0035 ppm	0.3086 ppm	0.0003 ppm	3.8514 ppm
Concentration per Run 3	0.0042 ppm	8.0840 ppm	0.0188 ppm	0.0025 ppm	0.3119 ppm	0.0003 ppm	3.9042 ppm
Concentration RSD	1.0 %	1.2 %	6.4 %	16.3 %	1.3 %	9.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0190 ppm	0.0485 ppm	**21.3174 ppm**	74.7885 ppm	0.5287 ppm	0.0080 ppm
Concentration per Run 1	0.0033 ppm	0.0186 ppm	0.0480 ppm	21.2467 ppm	75.8225 ppm	0.5540 ppm	0.0077 ppm
Concentration per Run 2	0.0033 ppm	0.0195 ppm	0.0487 ppm	21.2997 ppm	73.9409 ppm	0.5287 ppm	0.0074 ppm
Concentration per Run 3	0.0032 ppm	0.0188 ppm	0.0488 ppm	21.4056 ppm	74.6022 ppm	0.5035 ppm	0.0087 ppm
Concentration RSD	1.6 %	2.5 %	0.9 %	0.4 %	1.3 %	4.8 %	8.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5558 ppm	1.3164 ppm	-0.0002 ppm	0.1537 ppm	0.1097 ppm	3.8157 ppm	0.0201 ppm
Concentration per Run 1	2.5471 ppm	1.3280 ppm	-0.0010 ppm	0.1563 ppm	0.1087 ppm	3.7766 ppm	0.0193 ppm
Concentration per Run 2	2.5603 ppm	1.3015 ppm	0.0005 ppm	0.1506 ppm	0.1092 ppm	3.8369 ppm	0.0208 ppm
Concentration per Run 3	2.5600 ppm	1.3197 ppm	-0.0002 ppm	0.1543 ppm	0.1112 ppm	3.8335 ppm	0.0203 ppm
Concentration RSD	0.3 %	1.0 %	350.6 %	1.9 %	1.2 %	0.9 %	3.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.6835 ppm	1.0072 ppm	0.0277 ppm	0.3068 ppm	-0.0013 ppm	0.0436 ppm
Concentration per Run 1	0.0039 ppm	0.6855 ppm	1.0069 ppm	0.0280 ppm	0.3058 ppm	-0.0016 ppm	0.0434 ppm
Concentration per Run 2	-0.0019 ppm	0.6798 ppm	1.0104 ppm	0.0274 ppm	0.3062 ppm	-0.0019 ppm	0.0435 ppm
Concentration per Run 3	-0.0005 ppm	0.6852 ppm	1.0042 ppm	0.0276 ppm	0.3082 ppm	-0.0005 ppm	0.0437 ppm
Concentration RSD	571.5 %	0.5 %	0.3 %	1.1 %	0.4 %	56.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.1035 ppm	104.6702 %	100.9577 %	102.7439 %	104.5499 %	102.3820 %	101.3860 %
Concentration per Run 1	4.0959 ppm	104.2994 %	99.3983 %	103.8953 %	103.8286 %	100.8651 %	102.8415 %
Concentration per Run 2	4.1067 ppm	104.6337 %	103.1177 %	102.3151 %	104.6373 %	104.6796 %	101.0125 %
Concentration per Run 3	4.1080 ppm	105.0775 %	100.3571 %	102.0214 %	105.1839 %	101.6015 %	100.3039 %
Concentration RSD	0.2 %	0.4 %	1.9 %	1.0 %	0.7 %	2.0 %	1.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433078-04d40 WG1935350
Analysis started at: 6/17/2024 8:59:10 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	3.9603 ppm	0.0083 ppm	0.0003 ppm	0.1546 ppm	0.0002 ppm	1.9208 ppm
Concentration per Run 1	0.0017 ppm	3.9292 ppm	0.0086 ppm	0.0015 ppm	0.1546 ppm	0.0001 ppm	1.9108 ppm
Concentration per Run 2	0.0014 ppm	3.9592 ppm	0.0081 ppm	-0.0003 ppm	0.1535 ppm	0.0001 ppm	1.9173 ppm
Concentration per Run 3	0.0007 ppm	3.9926 ppm	0.0082 ppm	-0.0003 ppm	0.1557 ppm	0.0002 ppm	1.9343 ppm
Concentration RSD	38.6 %	0.8 %	2.8 %	361.6 %	0.7 %	15.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0090 ppm	0.0245 ppm	10.7689 ppm	37.3662 ppm	0.2774 ppm	0.0033 ppm
Concentration per Run 1	0.0015 ppm	0.0087 ppm	0.0247 ppm	10.8319 ppm	37.1300 ppm	0.2758 ppm	0.0039 ppm
Concentration per Run 2	0.0016 ppm	0.0088 ppm	0.0240 ppm	10.6839 ppm	37.0644 ppm	0.2731 ppm	0.0024 ppm
Concentration per Run 3	0.0016 ppm	0.0094 ppm	0.0247 ppm	10.7909 ppm	37.9042 ppm	0.2833 ppm	0.0037 ppm
Concentration RSD	2.8 %	4.0 %	1.6 %	0.7 %	1.3 %	1.9 %	24.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2768 ppm	0.6481 ppm	-0.0004 ppm	0.0658 ppm	0.0562 ppm	1.9189 ppm	0.0123 ppm
Concentration per Run 1	1.2820 ppm	0.6450 ppm	0.0000 ppm	0.0643 ppm	0.0564 ppm	1.9112 ppm	0.0114 ppm
Concentration per Run 2	1.2714 ppm	0.6458 ppm	-0.0008 ppm	0.0636 ppm	0.0564 ppm	1.9298 ppm	0.0113 ppm
Concentration per Run 3	1.2771 ppm	0.6534 ppm	-0.0005 ppm	0.0695 ppm	0.0558 ppm	1.9157 ppm	0.0142 ppm
Concentration RSD	0.4 %	0.7 %	90.1 %	4.8 %	0.6 %	0.5 %	13.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.3439 ppm	0.5054 ppm	0.0137 ppm	0.1520 ppm	-0.0001 ppm	0.0219 ppm
Concentration per Run 1	-0.0007 ppm	0.3426 ppm	0.5081 ppm	0.0136 ppm	0.1520 ppm	-0.0011 ppm	0.0220 ppm
Concentration per Run 2	0.0006 ppm	0.3518 ppm	0.5024 ppm	0.0137 ppm	0.1516 ppm	-0.0003 ppm	0.0217 ppm
Concentration per Run 3	0.0014 ppm	0.3373 ppm	0.5056 ppm	0.0139 ppm	0.1523 ppm	0.0011 ppm	0.0220 ppm
Concentration RSD	239.0 %	2.1 %	0.6 %	1.1 %	0.2 %	1,503.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0826 ppm	105.4844 %	102.8649 %	104.7732 %	104.8305 %	103.6508 %	103.7237 %
Concentration per Run 1	2.0841 ppm	106.2202 %	104.1796 %	105.2873 %	105.4600 %	105.3355 %	103.7685 %
Concentration per Run 2	2.0776 ppm	104.6268 %	102.4601 %	103.7418 %	104.0316 %	103.4095 %	102.9368 %
Concentration per Run 3	2.0860 ppm	105.6064 %	101.9549 %	105.2906 %	104.9999 %	102.2076 %	104.4658 %
Concentration RSD	0.2 %	0.8 %	1.1 %	0.9 %	0.7 %	1.5 %	0.7 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 9:02:54 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5080 ppm	0.4910 ppm	0.4740 ppm	0.4905 ppm	0.5060 ppm	0.5160 ppm	0.5013 ppm
Concentration per Run 1	0.5107 ppm	0.4975 ppm	0.4706 ppm	0.4916 ppm	0.5025 ppm	0.5144 ppm	0.5000 ppm
Concentration per Run 2	0.5072 ppm	0.4814 ppm	0.4744 ppm	0.4944 ppm	0.5104 ppm	0.5178 ppm	0.5040 ppm
Concentration per Run 3	0.5062 ppm	0.4939 ppm	0.4771 ppm	0.4855 ppm	0.5051 ppm	0.5159 ppm	0.5000 ppm
Recovery Percentage 1	101.602 %	98.195 %	94.807 %	98.102 %	101.196 %	103.210 %	100.262 %
Concentration RSD	0.5 %	1.7 %	0.7 %	0.9 %	0.8 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5058 ppm	0.5155 ppm	0.4930 ppm	0.4930 ppm	0.5158 ppm	5.2458 ppm	0.5029 ppm
Concentration per Run 1	0.5131 ppm	0.5233 ppm	0.4943 ppm	0.4963 ppm	0.5135 ppm	5.1842 ppm	0.4977 ppm
Concentration per Run 2	0.5088 ppm	0.5146 ppm	0.4943 ppm	0.4937 ppm	0.5199 ppm	5.2843 ppm	0.5057 ppm
Concentration per Run 3	0.4953 ppm	0.5086 ppm	0.4903 ppm	0.4890 ppm	0.5141 ppm	5.2689 ppm	0.5054 ppm
Recovery Percentage 1	101.151 %	103.104 %	98.592 %	98.599 %	103.164 %	104.916 %	100.579 %
Concentration RSD	1.8 %	1.4 %	0.5 %	0.7 %	0.7 %	1.0 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4907 ppm	0.4944 ppm	0.4916 ppm	10.0306 ppm	0.5088 ppm	0.4955 ppm	0.5060 ppm
Concentration per Run 1	0.4947 ppm	0.4925 ppm	0.4927 ppm	10.0272 ppm	0.5085 ppm	0.4931 ppm	0.5101 ppm
Concentration per Run 2	0.4895 ppm	0.4979 ppm	0.4944 ppm	10.0110 ppm	0.5124 ppm	0.4951 ppm	0.5046 ppm
Concentration per Run 3	0.4879 ppm	0.4930 ppm	0.4877 ppm	10.0537 ppm	0.5054 ppm	0.4985 ppm	0.5032 ppm
Recovery Percentage 1	98.143 %	98.890 %	98.316 %	100.306 %	101.756 %	99.108 %	101.194 %
Concentration RSD	0.7 %	0.6 %	0.7 %	0.2 %	0.7 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4825 ppm	5.6632 ppm	0.5339 ppm	0.5022 ppm	0.5036 ppm	0.4938 ppm	0.4876 ppm
Concentration per Run 1	0.4777 ppm	5.7074 ppm	0.5358 ppm	0.5007 ppm	0.5073 ppm	0.4929 ppm	0.4914 ppm
Concentration per Run 2	0.4831 ppm	5.6509 ppm	0.5372 ppm	0.5050 ppm	0.5026 ppm	0.4921 ppm	0.4866 ppm
Concentration per Run 3	0.4866 ppm	5.6314 ppm	0.5288 ppm	0.5009 ppm	0.5009 ppm	0.4965 ppm	0.4850 ppm
Recovery Percentage 1	96.497 %	107.871 %	106.783 %	100.447 %	100.717 %	98.763 %	97.529 %
Concentration RSD	0.9 %	0.7 %	0.8 %	0.5 %	0.7 %	0.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5168 ppm	104.3407 %	101.3657 %	104.4225 %	102.9025 %	101.4469 %	104.7482 %
Concentration per Run 1	0.5185 ppm	104.3453 %	101.5414 %	103.7518 %	103.0201 %	101.6685 %	103.7793 %
Concentration per Run 2	0.5188 ppm	103.8352 %	100.7464 %	105.0332 %	102.5368 %	100.5492 %	105.6698 %
Concentration per Run 3	0.5131 ppm	104.8416 %	101.8093 %	104.4825 %	103.1507 %	102.1231 %	104.7955 %
Recovery Percentage 1	103.367 %						
Concentration RSD	0.6 %	0.5 %	0.5 %	0.6 %	0.3 %	0.8 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 9:06:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0005 ppm	0.0005 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 1	-0.0004 ppm	-0.0098 ppm	0.0022 ppm	-0.0021 ppm	0.0002 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 2	-0.0010 ppm	-0.0022 ppm	0.0008 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 3	-0.0005 ppm	0.0106 ppm	-0.0015 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	-8.925 %	-0.478 %	9.981 %	-3.754 %	0.001 %	-0.531 %	4.351 %
Concentration RSD	47.3 %	2,156.4 %	372.3 %	96.1 %	152,201.2 %	79.7 %	107.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0019 ppm	-0.0085 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0029 ppm	0.0029 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0004 ppm	0.0016 ppm	-0.0027 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0005 ppm	0.0011 ppm	-0.0257 ppm	0.0009 ppm
Recovery Percentage 1	-0.226 %	0.333 %	-2.548 %	3.232 %	3.733 %	-0.340 %	8.660 %
Concentration RSD	623.0 %	830.0 %	88.0 %	77.1 %	51.8 %	178.3 %	110.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0034 ppm	0.0001 ppm	0.0015 ppm	-0.0152 ppm	0.0009 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.0047 ppm	0.0003 ppm	0.0015 ppm	-0.0116 ppm	0.0013 ppm	0.0014 ppm	0.0055 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0019 ppm	-0.0138 ppm	0.0004 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 3	0.0031 ppm	0.0000 ppm	0.0012 ppm	-0.0201 ppm	0.0011 ppm	0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	3.421 %	1.450 %	3.095 %	-0.759 %	3.748 %	6.157 %	2.231 %
Concentration RSD	34.5 %	82.7 %	21.1 %	29.0 %	48.7 %	159.9 %	346.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0069 ppm	0.0019 ppm	0.0000 ppm	0.0003 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	-0.0078 ppm	0.0021 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0033 ppm	-0.0056 ppm	0.0020 ppm	-0.0001 ppm	0.0005 ppm	-0.0017 ppm	0.0000 ppm
Concentration per Run 3	-0.0025 ppm	-0.0072 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	-0.0023 ppm	0.0001 ppm
Recovery Percentage 1	4.774 %	-1.371 %	3.834 %	-0.311 %	3.494 %	-7.367 %	0.494 %
Concentration RSD	607.4 %	16.2 %	10.3 %	310.0 %	44.6 %	62.9 %	62.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	104.2791 %	99.0687 %	104.6157 %	104.4062 %	100.0487 %	104.9993 %
Concentration per Run 1	-0.0002 ppm	103.8310 %	99.7551 %	103.3787 %	103.7064 %	101.0503 %	104.0789 %
Concentration per Run 2	-0.0001 ppm	103.7057 %	98.2119 %	106.0241 %	104.0125 %	99.0431 %	106.1720 %
Concentration per Run 3	-0.0003 ppm	105.3007 %	99.2390 %	104.4442 %	105.4999 %	100.0529 %	104.7470 %
Recovery Percentage 1	-3.894 %						
Concentration RSD	44.8 %	0.9 %	0.8 %	1.3 %	0.9 %	1.0 %	1.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-1 WG1935332
Analysis started at: 6/17/2024 10:11:53 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0056 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0128 ppm
Concentration per Run 1	-0.0004 ppm	0.0057 ppm	-0.0012 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0102 ppm
Concentration per Run 2	-0.0002 ppm	0.0080 ppm	-0.0012 ppm	-0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0130 ppm
Concentration per Run 3	-0.0004 ppm	0.0032 ppm	0.0021 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0153 ppm
Recovery Percentage 1	-4.912 %	5.632 %	-1.084 %	-4.262 %	0.342 %	0.843 %	12.813 %
Concentration RSD	36.6 %	42.0 %	3,506.7 %	63.3 %	331.7 %	93.5 %	20.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0056 ppm	0.0080 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0050 ppm	0.0148 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0063 ppm	0.0131 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0056 ppm	-0.0039 ppm	-0.0006 ppm
Recovery Percentage 1	-1.541 %	-0.893 %	-0.796 %	1.706 %	11.243 %	0.321 %	4.859 %
Concentration RSD	144.8 %	124.8 %	376.9 %	221.8 %	11.5 %	129.2 %	329.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0011 ppm	0.0006 ppm	-0.0110 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0027 ppm	0.0011 ppm	0.0006 ppm	-0.0119 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0033 ppm	0.0011 ppm	0.0008 ppm	-0.0088 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 3	0.0037 ppm	0.0010 ppm	0.0002 ppm	-0.0122 ppm	0.0004 ppm	0.0013 ppm	0.0038 ppm
Recovery Percentage 1	3.234 %	10.609 %	1.101 %	-0.548 %	0.175 %	6.734 %	2.269 %
Concentration RSD	16.2 %	4.8 %	54.0 %	17.1 %	849.3 %	92.4 %	203.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0198 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	-0.0218 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0015 ppm	-0.0186 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	-0.0006 ppm	-0.0191 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0000 ppm
Recovery Percentage 1	-4.068 %	-3.966 %	-1.349 %	-0.150 %	0.040 %	2.030 %	-0.561 %
Concentration RSD	294.2 %	8.9 %	44.5 %	396.8 %	1,145.2 %	268.5 %	451.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	104.7568 %	102.9407 %	105.5084 %	103.0081 %	103.6062 %	103.6431 %
Concentration per Run 1	0.0007 ppm	104.5846 %	102.2002 %	104.9884 %	102.9095 %	102.9861 %	103.2547 %
Concentration per Run 2	0.0006 ppm	105.3836 %	103.4072 %	106.6796 %	103.5825 %	103.8642 %	104.6766 %
Concentration per Run 3	0.0009 ppm	104.3021 %	103.2148 %	104.8572 %	102.5321 %	103.9683 %	102.9980 %
Recovery Percentage 1	14.907 %						
Concentration RSD	18.9 %	0.5 %	0.6 %	1.0 %	0.5 %	0.5 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-2 WG1935332
Analysis started at: 6/17/2024 10:21:25 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	1.9116 ppm	0.1150 ppm	0.9783 ppm	1.9316 ppm	0.0489 ppm	9.8663 ppm
Concentration per Run 1	0.0495 ppm	1.9075 ppm	0.1152 ppm	0.9749 ppm	1.9159 ppm	0.0487 ppm	9.8087 ppm
Concentration per Run 2	0.0493 ppm	1.9154 ppm	0.1169 ppm	0.9773 ppm	1.9429 ppm	0.0492 ppm	9.9221 ppm
Concentration per Run 3	0.0499 ppm	1.9120 ppm	0.1129 ppm	0.9827 ppm	1.9361 ppm	0.0490 ppm	9.8682 ppm
Concentration RSD	0.6 %	0.2 %	1.7 %	0.4 %	0.7 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0529 ppm	0.4868 ppm	0.1919 ppm	0.2449 ppm	0.9767 ppm	10.2008 ppm	-0.0002 ppm
Concentration per Run 1	0.0525 ppm	0.4861 ppm	0.1916 ppm	0.2447 ppm	0.9722 ppm	10.1572 ppm	0.0002 ppm
Concentration per Run 2	0.0532 ppm	0.4862 ppm	0.1917 ppm	0.2452 ppm	0.9801 ppm	10.2232 ppm	0.0000 ppm
Concentration per Run 3	0.0531 ppm	0.4882 ppm	0.1923 ppm	0.2450 ppm	0.9778 ppm	10.2220 ppm	-0.0007 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.1 %	0.4 %	0.4 %	249.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8813 ppm	0.4827 ppm	0.8682 ppm	10.1066 ppm	0.4895 ppm	0.5254 ppm	0.4193 ppm
Concentration per Run 1	9.9201 ppm	0.4803 ppm	0.8527 ppm	10.0899 ppm	0.4900 ppm	0.5281 ppm	0.4043 ppm
Concentration per Run 2	9.8961 ppm	0.4854 ppm	0.8686 ppm	10.1070 ppm	0.4901 ppm	0.5278 ppm	0.4226 ppm
Concentration per Run 3	9.8277 ppm	0.4824 ppm	0.8834 ppm	10.1230 ppm	0.4883 ppm	0.5203 ppm	0.4308 ppm
Concentration RSD	0.5 %	0.5 %	1.8 %	0.2 %	0.2 %	0.8 %	3.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1175 ppm	0.9837 ppm	0.9689 ppm	0.9451 ppm	0.9881 ppm	0.1175 ppm	0.4840 ppm
Concentration per Run 1	0.1194 ppm	0.9787 ppm	0.9677 ppm	0.9384 ppm	0.9880 ppm	0.1170 ppm	0.4841 ppm
Concentration per Run 2	0.1154 ppm	0.9838 ppm	0.9660 ppm	0.9495 ppm	0.9879 ppm	0.1197 ppm	0.4829 ppm
Concentration per Run 3	0.1179 ppm	0.9888 ppm	0.9731 ppm	0.9474 ppm	0.9883 ppm	0.1159 ppm	0.4849 ppm
Concentration RSD	1.7 %	0.5 %	0.4 %	0.6 %	0.0 %	1.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4882 ppm	105.3007 %	103.8468 %	104.7948 %	103.9929 %	104.0061 %	105.7787 %
Concentration per Run 1	0.4887 ppm	104.7991 %	104.4267 %	104.8396 %	103.2789 %	104.8003 %	105.9927 %
Concentration per Run 2	0.4875 ppm	105.2904 %	103.4272 %	104.4507 %	104.0086 %	103.7375 %	105.3328 %
Concentration per Run 3	0.4883 ppm	105.8128 %	103.6864 %	105.0940 %	104.6911 %	103.4806 %	106.0105 %
Concentration RSD	0.1 %	0.5 %	0.5 %	0.3 %	0.7 %	0.7 %	0.4 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433035-03 WG1935332
Analysis started at: 6/17/2024 10:24:59 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0029 ppm	0.0009 ppm	0.0073 ppm	0.0165 ppm	0.0000 ppm	19.8405 ppm
Concentration per Run 1	-0.0012 ppm	-0.0013 ppm	-0.0008 ppm	0.0072 ppm	0.0163 ppm	0.0000 ppm	19.6462 ppm
Concentration per Run 2	-0.0009 ppm	0.0036 ppm	0.0020 ppm	0.0076 ppm	0.0166 ppm	0.0000 ppm	20.0121 ppm
Concentration per Run 3	-0.0004 ppm	0.0063 ppm	0.0016 ppm	0.0070 ppm	0.0165 ppm	0.0000 ppm	19.8633 ppm
Concentration RSD	51.3 %	135.5 %	159.7 %	4.5 %	1.1 %	48.9 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0008 ppm	0.0248 ppm	0.9165 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0005 ppm	0.0227 ppm	0.9122 ppm	0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0243 ppm	0.9356 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0010 ppm	0.0003 ppm	0.0011 ppm	0.0274 ppm	0.9016 ppm	0.0013 ppm
Concentration RSD	191.7 %	123.0 %	214.9 %	43.6 %	9.7 %	1.9 %	53.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.9644 ppm	0.0043 ppm	0.0067 ppm	4.0210 ppm	0.0014 ppm	-0.0002 ppm	0.0053 ppm
Concentration per Run 1	4.9596 ppm	0.0041 ppm	0.0064 ppm	3.9891 ppm	0.0013 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 2	4.9418 ppm	0.0042 ppm	0.0069 ppm	4.0495 ppm	0.0015 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 3	4.9920 ppm	0.0045 ppm	0.0066 ppm	4.0245 ppm	0.0013 ppm	-0.0003 ppm	0.0052 ppm
Concentration RSD	0.5 %	4.2 %	3.6 %	0.8 %	8.4 %	165.3 %	83.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.6007 ppm	0.0033 ppm	0.0582 ppm	0.0005 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	3.5873 ppm	0.0031 ppm	0.0579 ppm	0.0005 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	3.5797 ppm	0.0037 ppm	0.0585 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	3.6352 ppm	0.0031 ppm	0.0582 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm
Concentration RSD	3,228.5 %	0.8 %	9.7 %	0.6 %	5.8 %	120.6 %	175.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	105.2095 %	102.6031 %	104.4555 %	104.8855 %	102.9490 %	105.1632 %
Concentration per Run 1	0.0008 ppm	104.1894 %	103.1962 %	104.4274 %	103.9458 %	103.2018 %	105.2802 %
Concentration per Run 2	0.0009 ppm	105.5165 %	101.6202 %	104.9828 %	105.2624 %	102.3491 %	105.6535 %
Concentration per Run 3	0.0010 ppm	105.9225 %	102.9928 %	103.9563 %	105.4484 %	103.2962 %	104.5560 %
Concentration RSD	10.2 %	0.9 %	0.8 %	0.5 %	0.8 %	0.5 %	0.5 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-3 WG1935332
Analysis started at: 6/17/2024 10:28:27 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0485 ppm	1.9345 ppm	0.1162 ppm	0.9771 ppm	1.9782 ppm	0.0502 ppm	29.8941 ppm
Concentration per Run 1	0.0480 ppm	1.9429 ppm	0.1145 ppm	0.9707 ppm	1.9730 ppm	0.0500 ppm	30.0240 ppm
Concentration per Run 2	0.0493 ppm	1.9364 ppm	0.1168 ppm	0.9954 ppm	1.9888 ppm	0.0504 ppm	29.8475 ppm
Concentration per Run 3	0.0481 ppm	1.9243 ppm	0.1174 ppm	0.9650 ppm	1.9728 ppm	0.0500 ppm	29.8108 ppm
Concentration RSD	1.5 %	0.5 %	1.3 %	1.7 %	0.5 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0518 ppm	0.4719 ppm	0.1871 ppm	0.2395 ppm	0.9903 ppm	11.2582 ppm	0.0002 ppm
Concentration per Run 1	0.0513 ppm	0.4719 ppm	0.1865 ppm	0.2403 ppm	0.9882 ppm	11.2135 ppm	-0.0002 ppm
Concentration per Run 2	0.0520 ppm	0.4759 ppm	0.1903 ppm	0.2412 ppm	0.9988 ppm	11.3148 ppm	-0.0003 ppm
Concentration per Run 3	0.0522 ppm	0.4680 ppm	0.1844 ppm	0.2369 ppm	0.9840 ppm	11.2463 ppm	0.0012 ppm
Concentration RSD	0.9 %	0.8 %	1.6 %	0.9 %	0.8 %	0.5 %	386.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.4233 ppm	0.4936 ppm	0.7794 ppm	14.1948 ppm	0.4730 ppm	0.5127 ppm	0.4035 ppm
Concentration per Run 1	14.4271 ppm	0.4946 ppm	0.7667 ppm	14.2302 ppm	0.4717 ppm	0.5102 ppm	0.3987 ppm
Concentration per Run 2	14.5980 ppm	0.4947 ppm	0.7887 ppm	14.2623 ppm	0.4804 ppm	0.5114 ppm	0.4068 ppm
Concentration per Run 3	14.2446 ppm	0.4915 ppm	0.7829 ppm	14.0920 ppm	0.4668 ppm	0.5164 ppm	0.4050 ppm
Concentration RSD	1.2 %	0.4 %	1.5 %	0.6 %	1.5 %	0.6 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1195 ppm	4.5765 ppm	0.9257 ppm	1.0081 ppm	0.9728 ppm	0.1171 ppm	0.4765 ppm
Concentration per Run 1	0.1176 ppm	4.5636 ppm	0.9145 ppm	1.0057 ppm	0.9682 ppm	0.1168 ppm	0.4786 ppm
Concentration per Run 2	0.1189 ppm	4.6381 ppm	0.9415 ppm	1.0126 ppm	0.9877 ppm	0.1165 ppm	0.4816 ppm
Concentration per Run 3	0.1220 ppm	4.5277 ppm	0.9212 ppm	1.0059 ppm	0.9626 ppm	0.1181 ppm	0.4693 ppm
Concentration RSD	1.9 %	1.2 %	1.5 %	0.4 %	1.4 %	0.7 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4784 ppm	104.9375 %	100.8649 %	102.8957 %	103.8909 %	101.3295 %	105.0814 %
Concentration per Run 1	0.4781 ppm	105.5318 %	100.5908 %	103.6966 %	104.4566 %	101.3744 %	105.9693 %
Concentration per Run 2	0.4870 ppm	103.4397 %	100.7696 %	103.0765 %	102.1200 %	101.2319 %	105.4076 %
Concentration per Run 3	0.4701 ppm	105.8410 %	101.2342 %	101.9140 %	105.0960 %	101.3823 %	103.8673 %
Concentration RSD	1.8 %	1.2 %	0.3 %	0.9 %	1.5 %	0.1 %	1.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-4 WG1935332
Analysis started at: 6/17/2024 10:31:56 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	1.9850 ppm	0.1201 ppm	1.0179 ppm	2.0295 ppm	0.0516 ppm	30.5990 ppm
Concentration per Run 1	0.0509 ppm	2.0209 ppm	0.1197 ppm	1.0310 ppm	2.0460 ppm	0.0520 ppm	30.9753 ppm
Concentration per Run 2	0.0501 ppm	1.9645 ppm	0.1209 ppm	1.0141 ppm	2.0157 ppm	0.0512 ppm	30.3532 ppm
Concentration per Run 3	0.0496 ppm	1.9697 ppm	0.1196 ppm	1.0086 ppm	2.0267 ppm	0.0515 ppm	30.4686 ppm
Concentration RSD	1.3 %	1.6 %	0.6 %	1.1 %	0.8 %	0.8 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0545 ppm	0.4944 ppm	0.1959 ppm	0.2487 ppm	1.0103 ppm	11.5595 ppm	0.0006 ppm
Concentration per Run 1	0.0547 ppm	0.4981 ppm	0.1987 ppm	0.2515 ppm	1.0172 ppm	11.6585 ppm	0.0010 ppm
Concentration per Run 2	0.0541 ppm	0.4916 ppm	0.1942 ppm	0.2478 ppm	1.0061 ppm	11.4666 ppm	-0.0001 ppm
Concentration per Run 3	0.0547 ppm	0.4935 ppm	0.1948 ppm	0.2468 ppm	1.0076 ppm	11.5532 ppm	0.0008 ppm
Concentration RSD	0.6 %	0.7 %	1.3 %	1.0 %	0.6 %	0.8 %	98.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0038 ppm	0.5066 ppm	0.8285 ppm	14.5414 ppm	0.4951 ppm	0.5330 ppm	0.4192 ppm
Concentration per Run 1	15.1900 ppm	0.5118 ppm	0.8171 ppm	14.7771 ppm	0.5049 ppm	0.5310 ppm	0.4136 ppm
Concentration per Run 2	14.9402 ppm	0.5033 ppm	0.8239 ppm	14.3640 ppm	0.4891 ppm	0.5314 ppm	0.4250 ppm
Concentration per Run 3	14.8813 ppm	0.5045 ppm	0.8444 ppm	14.4831 ppm	0.4914 ppm	0.5365 ppm	0.4190 ppm
Concentration RSD	1.1 %	0.9 %	1.7 %	1.5 %	1.7 %	0.6 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1251 ppm	4.7636 ppm	0.9815 ppm	1.0364 ppm	1.0064 ppm	0.1198 ppm	0.4979 ppm
Concentration per Run 1	0.1231 ppm	4.8113 ppm	0.9911 ppm	1.0452 ppm	1.0192 ppm	0.1206 ppm	0.5046 ppm
Concentration per Run 2	0.1266 ppm	4.7373 ppm	0.9725 ppm	1.0282 ppm	0.9994 ppm	0.1200 ppm	0.4948 ppm
Concentration per Run 3	0.1258 ppm	4.7420 ppm	0.9810 ppm	1.0359 ppm	1.0007 ppm	0.1190 ppm	0.4941 ppm
Concentration RSD	1.5 %	0.9 %	0.9 %	0.8 %	1.1 %	0.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5015 ppm	102.4009 %	101.7350 %	101.4273 %	101.3616 %	102.0303 %	103.2646 %
Concentration per Run 1	0.5089 ppm	101.0188 %	101.5037 %	102.4162 %	99.9688 %	102.1669 %	104.6284 %
Concentration per Run 2	0.4967 ppm	103.8489 %	102.1347 %	101.2559 %	103.1393 %	102.4831 %	102.7073 %
Concentration per Run 3	0.4989 ppm	102.3351 %	101.5665 %	100.6099 %	100.9768 %	101.4410 %	102.4581 %
Concentration RSD	1.3 %	1.4 %	0.3 %	0.9 %	1.6 %	0.5 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-5 WG1935332
Analysis started at: 6/17/2024 10:35:25 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0529 ppm	2.0377 ppm	0.1289 ppm	1.0953 ppm	2.0890 ppm	0.0531 ppm	30.0479 ppm
Concentration per Run 1	0.0527 ppm	2.0396 ppm	0.1285 ppm	1.1064 ppm	2.0749 ppm	0.0530 ppm	29.8632 ppm
Concentration per Run 2	0.0540 ppm	2.0447 ppm	0.1299 ppm	1.0915 ppm	2.0974 ppm	0.0532 ppm	30.1758 ppm
Concentration per Run 3	0.0520 ppm	2.0286 ppm	0.1282 ppm	1.0879 ppm	2.0948 ppm	0.0531 ppm	30.1047 ppm
Concentration RSD	1.9 %	0.4 %	0.7 %	0.9 %	0.6 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0572 ppm	0.5220 ppm	0.2064 ppm	0.2644 ppm	1.0647 ppm	11.9633 ppm	0.0002 ppm
Concentration per Run 1	0.0571 ppm	0.5227 ppm	0.2072 ppm	0.2649 ppm	1.0655 ppm	11.9280 ppm	0.0007 ppm
Concentration per Run 2	0.0572 ppm	0.5214 ppm	0.2062 ppm	0.2635 ppm	1.0603 ppm	12.0320 ppm	-0.0007 ppm
Concentration per Run 3	0.0572 ppm	0.5218 ppm	0.2056 ppm	0.2647 ppm	1.0684 ppm	11.9298 ppm	0.0005 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.3 %	0.4 %	0.5 %	461.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.6126 ppm	0.5235 ppm	0.8859 ppm	14.7996 ppm	0.5226 ppm	0.5753 ppm	0.3903 ppm
Concentration per Run 1	15.6718 ppm	0.5210 ppm	0.8733 ppm	14.6959 ppm	0.5257 ppm	0.5754 ppm	0.3811 ppm
Concentration per Run 2	15.6076 ppm	0.5250 ppm	0.8850 ppm	14.9033 ppm	0.5219 ppm	0.5766 ppm	0.3870 ppm
Concentration per Run 3	15.5583 ppm	0.5244 ppm	0.8995 ppm	14.7996 ppm	0.5202 ppm	0.5740 ppm	0.4029 ppm
Concentration RSD	0.4 %	0.4 %	1.5 %	0.7 %	0.5 %	0.2 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1323 ppm	4.6271 ppm	1.0579 ppm	1.0781 ppm	1.0805 ppm	0.1309 ppm	0.5248 ppm
Concentration per Run 1	0.1317 ppm	4.6325 ppm	1.0562 ppm	1.0672 ppm	1.0884 ppm	0.1313 ppm	0.5269 ppm
Concentration per Run 2	0.1340 ppm	4.6369 ppm	1.0576 ppm	1.0808 ppm	1.0789 ppm	0.1313 ppm	0.5234 ppm
Concentration per Run 3	0.1313 ppm	4.6119 ppm	1.0598 ppm	1.0863 ppm	1.0741 ppm	0.1302 ppm	0.5241 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %	0.9 %	0.7 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5304 ppm	102.3192 %	101.4819 %	99.9379 %	101.4600 %	102.0528 %	101.8353 %
Concentration per Run 1	0.5331 ppm	102.1304 %	101.6469 %	99.8347 %	101.0380 %	102.2367 %	101.3178 %
Concentration per Run 2	0.5300 ppm	102.9221 %	101.1576 %	99.1572 %	102.0198 %	101.7461 %	101.3155 %
Concentration per Run 3	0.5283 ppm	101.9052 %	101.6412 %	100.8217 %	101.3222 %	102.1756 %	102.8725 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.8 %	0.5 %	0.3 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-6d5 WG1935332
Analysis started at: 6/17/2024 10:38:54 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0001 ppm	0.0012 ppm	0.0002 ppm	0.0034 ppm	0.0000 ppm	4.1276 ppm
Concentration per Run 1	-0.0005 ppm	-0.0077 ppm	0.0015 ppm	-0.0008 ppm	0.0034 ppm	0.0000 ppm	4.1160 ppm
Concentration per Run 2	-0.0011 ppm	0.0049 ppm	0.0022 ppm	0.0014 ppm	0.0034 ppm	0.0000 ppm	4.1321 ppm
Concentration per Run 3	-0.0006 ppm	0.0026 ppm	-0.0001 ppm	0.0001 ppm	0.0034 ppm	0.0000 ppm	4.1347 ppm
Concentration RSD	41.1 %	10,020.8 %	102.0 %	462.7 %	1.0 %	135.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0073 ppm	0.1971 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0091 ppm	0.1748 ppm	-0.0005 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0061 ppm	0.2067 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0068 ppm	0.2100 ppm	-0.0005 ppm
Concentration RSD	555.5 %	200.7 %	13.8 %	167.8 %	21.6 %	9.9 %	76.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0155 ppm	0.0010 ppm	0.0097 ppm	0.8096 ppm	0.0009 ppm	0.0002 ppm	0.0098 ppm
Concentration per Run 1	1.0089 ppm	0.0011 ppm	0.0107 ppm	0.8023 ppm	0.0002 ppm	-0.0009 ppm	0.0105 ppm
Concentration per Run 2	1.0151 ppm	0.0011 ppm	0.0091 ppm	0.8132 ppm	0.0024 ppm	0.0011 ppm	0.0115 ppm
Concentration per Run 3	1.0225 ppm	0.0007 ppm	0.0093 ppm	0.8133 ppm	0.0000 ppm	0.0003 ppm	0.0075 ppm
Concentration RSD	0.7 %	26.0 %	9.0 %	0.8 %	150.8 %	514.4 %	21.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.7179 ppm	0.0136 ppm	0.0120 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0046 ppm	0.7181 ppm	0.0147 ppm	0.0120 ppm	0.0004 ppm	-0.0026 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.7125 ppm	0.0126 ppm	0.0118 ppm	0.0005 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	-0.0011 ppm	0.7230 ppm	0.0135 ppm	0.0121 ppm	0.0005 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	305.2 %	0.7 %	8.1 %	1.3 %	14.5 %	193.2 %	279.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	103.8367 %	99.1634 %	104.7372 %	103.0500 %	99.6941 %	104.5536 %
Concentration per Run 1	0.0001 ppm	105.7114 %	100.5987 %	105.0702 %	105.5908 %	101.2325 %	104.5781 %
Concentration per Run 2	0.0002 ppm	103.0572 %	98.6436 %	103.6687 %	102.1125 %	99.1432 %	103.7362 %
Concentration per Run 3	0.0001 ppm	102.7415 %	98.2479 %	105.4727 %	101.4468 %	98.7064 %	105.3465 %
Concentration RSD	43.8 %	1.6 %	1.3 %	0.9 %	2.2 %	1.4 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 10:42:24 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5144 ppm	0.5020 ppm	0.4846 ppm	0.5022 ppm	0.5138 ppm	0.5235 ppm	0.5103 ppm
Concentration per Run 1	0.5128 ppm	0.5022 ppm	0.4836 ppm	0.5013 ppm	0.5104 ppm	0.5212 ppm	0.5149 ppm
Concentration per Run 2	0.5168 ppm	0.5087 ppm	0.4797 ppm	0.5054 ppm	0.5147 ppm	0.5240 ppm	0.5048 ppm
Concentration per Run 3	0.5138 ppm	0.4950 ppm	0.4905 ppm	0.5000 ppm	0.5163 ppm	0.5253 ppm	0.5111 ppm
Recovery Percentage 1	102.888 %	100.393 %	96.914 %	100.447 %	102.766 %	104.698 %	102.058 %
Concentration RSD	0.4 %	1.4 %	1.1 %	0.6 %	0.6 %	0.4 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5082 ppm	0.5187 ppm	0.4989 ppm	0.5022 ppm	0.5240 ppm	5.3142 ppm	0.5110 ppm
Concentration per Run 1	0.5059 ppm	0.5156 ppm	0.4974 ppm	0.4999 ppm	0.5242 ppm	5.2863 ppm	0.5073 ppm
Concentration per Run 2	0.5084 ppm	0.5183 ppm	0.5011 ppm	0.5021 ppm	0.5261 ppm	5.3154 ppm	0.5128 ppm
Concentration per Run 3	0.5104 ppm	0.5222 ppm	0.4983 ppm	0.5047 ppm	0.5217 ppm	5.3408 ppm	0.5131 ppm
Recovery Percentage 1	101.644 %	103.739 %	99.785 %	100.444 %	104.793 %	106.283 %	102.208 %
Concentration RSD	0.4 %	0.6 %	0.4 %	0.5 %	0.4 %	0.5 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4959 ppm	0.5041 ppm	0.5037 ppm	10.1304 ppm	0.5172 ppm	0.5091 ppm	0.5161 ppm
Concentration per Run 1	0.4944 ppm	0.5056 ppm	0.4983 ppm	10.1031 ppm	0.5146 ppm	0.5067 ppm	0.5152 ppm
Concentration per Run 2	0.4983 ppm	0.5025 ppm	0.5040 ppm	10.0788 ppm	0.5185 ppm	0.5047 ppm	0.5147 ppm
Concentration per Run 3	0.4952 ppm	0.5042 ppm	0.5087 ppm	10.2093 ppm	0.5184 ppm	0.5158 ppm	0.5183 ppm
Recovery Percentage 1	99.189 %	100.823 %	100.737 %	101.304 %	103.430 %	101.815 %	103.217 %
Concentration RSD	0.4 %	0.3 %	1.0 %	0.7 %	0.4 %	1.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4957 ppm	5.7296 ppm	0.5481 ppm	0.5094 ppm	0.5090 ppm	0.5062 ppm	0.4947 ppm
Concentration per Run 1	0.4904 ppm	5.6937 ppm	0.5451 ppm	0.5062 ppm	0.5070 ppm	0.5023 ppm	0.4923 ppm
Concentration per Run 2	0.4907 ppm	5.7430 ppm	0.5511 ppm	0.5097 ppm	0.5109 ppm	0.5008 ppm	0.4949 ppm
Concentration per Run 3	0.5061 ppm	5.7520 ppm	0.5483 ppm	0.5122 ppm	0.5091 ppm	0.5157 ppm	0.4969 ppm
Recovery Percentage 1	99.147 %	109.135 %	109.628 %	101.878 %	101.801 %	101.249 %	98.937 %
Concentration RSD	1.8 %	0.5 %	0.5 %	0.6 %	0.4 %	1.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5266 ppm	104.0908 %	100.6586 %	102.2002 %	103.0593 %	100.6935 %	102.4478 %
Concentration per Run 1	0.5250 ppm	104.1140 %	100.5459 %	102.7880 %	103.1658 %	101.1010 %	103.3397 %
Concentration per Run 2	0.5275 ppm	104.6323 %	99.7244 %	102.5844 %	103.3533 %	99.5666 %	102.5890 %
Concentration per Run 3	0.5274 ppm	103.5260 %	101.7055 %	101.2281 %	102.6588 %	101.4130 %	101.4147 %
Recovery Percentage 1	105.326 %						
Concentration RSD	0.3 %	0.5 %	1.0 %	0.8 %	0.3 %	1.0 %	0.9 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 10:45:53 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0042 ppm	0.0010 ppm	-0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	-0.0004 ppm	0.0119 ppm	0.0026 ppm	-0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 2	-0.0010 ppm	-0.0024 ppm	0.0016 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	-0.0008 ppm	0.0033 ppm	-0.0014 ppm	-0.0033 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Recovery Percentage 1	-10.286 %	4.243 %	19.027 %	-6.836 %	-0.164 %	0.379 %	5.202 %
Concentration RSD	45.3 %	170.3 %	218.3 %	55.5 %	445.5 %	152.8 %	60.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0030 ppm	-0.0033 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0009 ppm	0.0030 ppm	-0.0091 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0018 ppm	0.0064 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0042 ppm	-0.0070 ppm	0.0001 ppm
Recovery Percentage 1	2.746 %	-0.436 %	-2.214 %	4.880 %	5.963 %	-0.130 %	3.959 %
Concentration RSD	81.3 %	88.1 %	170.4 %	69.4 %	40.3 %	257.6 %	296.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0034 ppm	0.0000 ppm	0.0022 ppm	-0.0097 ppm	0.0003 ppm	0.0004 ppm	0.0082 ppm
Concentration per Run 1	0.0041 ppm	0.0000 ppm	0.0019 ppm	-0.0091 ppm	0.0013 ppm	0.0002 ppm	0.0118 ppm
Concentration per Run 2	0.0037 ppm	0.0000 ppm	0.0026 ppm	-0.0070 ppm	-0.0002 ppm	-0.0006 ppm	0.0049 ppm
Concentration per Run 3	0.0025 ppm	-0.0001 ppm	0.0020 ppm	-0.0129 ppm	0.0000 ppm	0.0015 ppm	0.0080 ppm
Recovery Percentage 1	3.442 %	-0.492 %	4.340 %	-0.483 %	1.398 %	3.645 %	16.464 %
Concentration RSD	23.8 %	182.7 %	18.1 %	31.2 %	225.5 %	282.9 %	41.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	-0.0132 ppm	0.0023 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0011 ppm	-0.0157 ppm	0.0024 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	-0.0114 ppm	0.0021 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	0.0019 ppm	-0.0125 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	-0.0001 ppm
Recovery Percentage 1	15.792 %	-2.634 %	4.617 %	-1.258 %	2.275 %	-0.672 %	-1.549 %
Concentration RSD	25.2 %	16.8 %	7.6 %	59.3 %	40.4 %	802.5 %	125.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	103.0043 %	100.0378 %	104.4777 %	103.2763 %	101.1107 %	104.8541 %
Concentration per Run 1	-0.0004 ppm	103.0399 %	100.6267 %	105.1914 %	103.1226 %	101.8477 %	105.6639 %
Concentration per Run 2	0.0001 ppm	103.3613 %	100.1849 %	104.1109 %	103.7785 %	101.1913 %	104.4514 %
Concentration per Run 3	0.0001 ppm	102.6115 %	99.3018 %	104.1308 %	102.9278 %	100.2930 %	104.4470 %
Recovery Percentage 1	-1.361 %						
Concentration RSD	408.7 %	0.4 %	0.7 %	0.6 %	0.4 %	0.8 %	0.7 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2432783-01 WG1935332
Analysis started at: 6/17/2024 10:49:33 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.4052 ppm	0.0013 ppm	0.0611 ppm	0.0364 ppm	0.0000 ppm	36.1839 ppm
Concentration per Run 1	-0.0005 ppm	0.4085 ppm	0.0012 ppm	0.0619 ppm	0.0366 ppm	0.0000 ppm	36.1954 ppm
Concentration per Run 2	-0.0007 ppm	0.3967 ppm	0.0028 ppm	0.0596 ppm	0.0366 ppm	0.0000 ppm	36.2968 ppm
Concentration per Run 3	-0.0001 ppm	0.4105 ppm	0.0000 ppm	0.0619 ppm	0.0360 ppm	0.0000 ppm	36.0596 ppm
Concentration RSD	73.2 %	1.8 %	104.3 %	2.2 %	1.0 %	572.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0007 ppm	0.0026 ppm	0.1572 ppm	1.8537 ppm	20.4005 ppm	0.0066 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0027 ppm	0.1582 ppm	1.8705 ppm	20.5458 ppm	0.0075 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0024 ppm	0.1567 ppm	1.8623 ppm	20.4457 ppm	0.0062 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0027 ppm	0.1567 ppm	1.8283 ppm	20.2100 ppm	0.0062 ppm
Concentration RSD	49.7 %	27.8 %	6.9 %	0.5 %	1.2 %	0.8 %	11.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2217 ppm	0.0799 ppm	0.0014 ppm	160.2957 ppm	0.0056 ppm	0.0057 ppm	0.0035 ppm
Concentration per Run 1	5.2583 ppm	0.0803 ppm	0.0020 ppm	161.0143 ppm	0.0058 ppm	0.0067 ppm	0.0045 ppm
Concentration per Run 2	5.2354 ppm	0.0795 ppm	0.0007 ppm	160.2166 ppm	0.0055 ppm	0.0058 ppm	0.0019 ppm
Concentration per Run 3	5.1713 ppm	0.0798 ppm	0.0016 ppm	159.6562 ppm	0.0054 ppm	0.0045 ppm	0.0041 ppm
Concentration RSD	0.9 %	0.5 %	47.6 %	0.4 %	4.1 %	19.2 %	40.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	2.8975 ppm	-0.0009 ppm	0.1108 ppm	0.0110 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 1	-0.0004 ppm	2.9157 ppm	-0.0006 ppm	0.1114 ppm	0.0106 ppm	-0.0010 ppm	0.0013 ppm
Concentration per Run 2	0.0023 ppm	2.9014 ppm	-0.0004 ppm	0.1112 ppm	0.0103 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 3	0.0008 ppm	2.8755 ppm	-0.0018 ppm	0.1098 ppm	0.0120 ppm	0.0009 ppm	0.0008 ppm
Concentration RSD	148.4 %	0.7 %	78.9 %	0.8 %	8.4 %	418.3 %	24.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2654 ppm	99.4660 %	100.4120 %	96.0608 %	99.3424 %	101.2762 %	101.8136 %
Concentration per Run 1	0.2670 ppm	99.6050 %	99.6214 %	96.5469 %	100.0762 %	100.5347 %	102.7367 %
Concentration per Run 2	0.2662 ppm	99.4511 %	100.6725 %	95.6081 %	99.0748 %	101.2046 %	101.2260 %
Concentration per Run 3	0.2630 ppm	99.3420 %	100.9421 %	96.0275 %	98.8761 %	102.0892 %	101.4782 %
Concentration RSD	0.8 %	0.1 %	0.7 %	0.5 %	0.6 %	0.8 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: L2433035-04 WG1935332
Analysis started at: 6/17/2024 10:53:01 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0445 ppm	0.0024 ppm	0.0235 ppm	0.0226 ppm	0.0000 ppm	10.2642 ppm
Concentration per Run 1	-0.0008 ppm	0.0545 ppm	0.0030 ppm	0.0235 ppm	0.0225 ppm	0.0000 ppm	10.2447 ppm
Concentration per Run 2	-0.0003 ppm	0.0354 ppm	0.0037 ppm	0.0234 ppm	0.0227 ppm	0.0000 ppm	10.2952 ppm
Concentration per Run 3	-0.0007 ppm	0.0435 ppm	0.0006 ppm	0.0235 ppm	0.0224 ppm	0.0000 ppm	10.2527 ppm
Concentration RSD	46.4 %	21.5 %	68.1 %	0.3 %	0.8 %	214.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0029 ppm	0.0005 ppm	0.0009 ppm	2.7981 ppm	0.9579 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	0.0026 ppm	0.0006 ppm	0.0009 ppm	2.7681 ppm	0.9711 ppm	0.0016 ppm
Concentration per Run 2	-0.0002 ppm	0.0030 ppm	0.0007 ppm	0.0007 ppm	2.8144 ppm	0.9524 ppm	0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0032 ppm	0.0001 ppm	0.0012 ppm	2.8118 ppm	0.9503 ppm	0.0017 ppm
Concentration RSD	51.5 %	9.4 %	60.7 %	23.4 %	0.9 %	1.2 %	13.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.4911 ppm	0.0398 ppm	-0.0005 ppm	8.2499 ppm	0.0034 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	4.5086 ppm	0.0397 ppm	-0.0001 ppm	8.2012 ppm	0.0032 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	4.4661 ppm	0.0397 ppm	-0.0006 ppm	8.2967 ppm	0.0038 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 3	4.4986 ppm	0.0400 ppm	-0.0006 ppm	8.2518 ppm	0.0030 ppm	-0.0009 ppm	-0.0003 ppm
Concentration RSD	0.5 %	0.5 %	63.7 %	0.6 %	12.7 %	823.0 %	552.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	7.8294 ppm	-0.0031 ppm	0.0396 ppm	0.0010 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0013 ppm	7.8719 ppm	-0.0024 ppm	0.0393 ppm	0.0008 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 2	-0.0007 ppm	7.7784 ppm	-0.0034 ppm	0.0397 ppm	0.0013 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	-0.0006 ppm	7.8379 ppm	-0.0035 ppm	0.0398 ppm	0.0008 ppm	-0.0010 ppm	0.0000 ppm
Concentration RSD	12,934.4 %	0.6 %	19.4 %	0.6 %	29.0 %	76.7 %	114.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	103.3960 %	102.3958 %	103.7267 %	102.5337 %	102.2585 %	104.7037 %
Concentration per Run 1	0.0060 ppm	104.2541 %	103.1696 %	103.8326 %	103.9966 %	103.2519 %	105.0859 %
Concentration per Run 2	0.0056 ppm	103.2885 %	100.9808 %	103.5043 %	102.4830 %	100.9783 %	104.5530 %
Concentration per Run 3	0.0052 ppm	102.6454 %	103.0369 %	103.8432 %	101.1216 %	102.5451 %	104.4721 %
Concentration RSD	7.3 %	0.8 %	1.2 %	0.2 %	1.4 %	1.1 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-7 WG1935332
Analysis started at: 6/17/2024 10:56:31 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0493 ppm	1.9613 ppm	0.1215 ppm	1.0224 ppm	1.9934 ppm	0.0503 ppm	20.1848 ppm
Concentration per Run 1	0.0494 ppm	1.9673 ppm	0.1215 ppm	1.0255 ppm	2.0022 ppm	0.0505 ppm	20.2885 ppm
Concentration per Run 2	0.0486 ppm	1.9650 ppm	0.1214 ppm	1.0089 ppm	2.0022 ppm	0.0506 ppm	20.3984 ppm
Concentration per Run 3	0.0500 ppm	1.9517 ppm	0.1217 ppm	1.0327 ppm	1.9757 ppm	0.0498 ppm	19.8675 ppm
Concentration RSD	1.4 %	0.4 %	0.1 %	1.2 %	0.8 %	0.9 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0531 ppm	0.4885 ppm	0.1925 ppm	0.2443 ppm	3.8112 ppm	11.3667 ppm	0.0013 ppm
Concentration per Run 1	0.0532 ppm	0.4912 ppm	0.1929 ppm	0.2447 ppm	3.8287 ppm	11.4003 ppm	0.0009 ppm
Concentration per Run 2	0.0533 ppm	0.4864 ppm	0.1915 ppm	0.2419 ppm	3.8221 ppm	11.4180 ppm	0.0013 ppm
Concentration per Run 3	0.0527 ppm	0.4880 ppm	0.1932 ppm	0.2464 ppm	3.7827 ppm	11.2819 ppm	0.0017 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.9 %	0.7 %	0.7 %	29.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.2679 ppm	0.5317 ppm	0.8107 ppm	18.4807 ppm	0.4902 ppm	0.5271 ppm	0.4492 ppm
Concentration per Run 1	14.2992 ppm	0.5317 ppm	0.7975 ppm	18.4906 ppm	0.4900 ppm	0.5270 ppm	0.4505 ppm
Concentration per Run 2	14.1264 ppm	0.5371 ppm	0.8040 ppm	18.5447 ppm	0.4863 ppm	0.5289 ppm	0.4443 ppm
Concentration per Run 3	14.3781 ppm	0.5265 ppm	0.8308 ppm	18.4069 ppm	0.4942 ppm	0.5254 ppm	0.4529 ppm
Concentration RSD	0.9 %	1.0 %	2.2 %	0.4 %	0.8 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1236 ppm	8.8552 ppm	0.9656 ppm	0.9995 ppm	0.9954 ppm	0.1193 ppm	0.4853 ppm
Concentration per Run 1	0.1234 ppm	8.8591 ppm	0.9620 ppm	1.0058 ppm	0.9956 ppm	0.1211 ppm	0.4868 ppm
Concentration per Run 2	0.1220 ppm	8.7922 ppm	0.9637 ppm	1.0009 ppm	0.9908 ppm	0.1190 ppm	0.4823 ppm
Concentration per Run 3	0.1252 ppm	8.9142 ppm	0.9711 ppm	0.9918 ppm	1.0000 ppm	0.1179 ppm	0.4869 ppm
Concentration RSD	1.3 %	0.7 %	0.5 %	0.7 %	0.5 %	1.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4956 ppm	104.5605 %	102.1395 %	102.2152 %	103.1239 %	101.8429 %	104.1183 %
Concentration per Run 1	0.4978 ppm	104.8560 %	102.4220 %	102.9557 %	103.4298 %	102.1699 %	105.0476 %
Concentration per Run 2	0.4923 ppm	104.5486 %	101.3026 %	101.7435 %	103.4988 %	101.3425 %	103.7702 %
Concentration per Run 3	0.4968 ppm	104.2769 %	102.6937 %	101.9464 %	102.4433 %	102.0164 %	103.5371 %
Concentration RSD	0.6 %	0.3 %	0.7 %	0.6 %	0.6 %	0.4 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-8 WG1935332
Analysis started at: 6/17/2024 11:00:01 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0274 ppm	0.0025 ppm	0.0245 ppm	0.0238 ppm	0.0000 ppm	10.6714 ppm
Concentration per Run 1	-0.0008 ppm	0.0291 ppm	0.0013 ppm	0.0259 ppm	0.0245 ppm	0.0000 ppm	10.8850 ppm
Concentration per Run 2	-0.0003 ppm	0.0231 ppm	0.0028 ppm	0.0226 ppm	0.0235 ppm	0.0000 ppm	10.6053 ppm
Concentration per Run 3	-0.0007 ppm	0.0301 ppm	0.0034 ppm	0.0250 ppm	0.0233 ppm	0.0000 ppm	10.5240 ppm
Concentration RSD	41.3 %	13.9 %	43.6 %	7.1 %	2.8 %	159.9 %	1.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0031 ppm	0.0010 ppm	0.0007 ppm	2.9212 ppm	0.9962 ppm	0.0014 ppm
Concentration per Run 1	-0.0002 ppm	0.0030 ppm	0.0012 ppm	0.0005 ppm	2.9981 ppm	1.0325 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0029 ppm	0.0007 ppm	0.0009 ppm	2.8953 ppm	0.9914 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0036 ppm	0.0011 ppm	0.0007 ppm	2.8700 ppm	0.9647 ppm	0.0007 ppm
Concentration RSD	88.7 %	12.1 %	27.5 %	26.9 %	2.3 %	3.4 %	75.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.5241 ppm	0.0413 ppm	0.0061 ppm	8.6152 ppm	0.0023 ppm	0.0006 ppm	0.0046 ppm
Concentration per Run 1	4.5577 ppm	0.0420 ppm	0.0066 ppm	8.8218 ppm	0.0029 ppm	0.0006 ppm	0.0073 ppm
Concentration per Run 2	4.5344 ppm	0.0412 ppm	0.0059 ppm	8.5348 ppm	0.0022 ppm	0.0010 ppm	0.0020 ppm
Concentration per Run 3	4.4802 ppm	0.0408 ppm	0.0060 ppm	8.4891 ppm	0.0018 ppm	0.0003 ppm	0.0046 ppm
Concentration RSD	0.9 %	1.4 %	6.4 %	2.1 %	23.2 %	51.6 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	7.9694 ppm	0.0045 ppm	0.0412 ppm	0.0014 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 1	-0.0008 ppm	7.9848 ppm	0.0041 ppm	0.0422 ppm	0.0014 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	7.9997 ppm	0.0053 ppm	0.0410 ppm	0.0017 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	7.9237 ppm	0.0042 ppm	0.0405 ppm	0.0012 ppm	-0.0009 ppm	-0.0003 ppm
Concentration RSD	130.8 %	0.5 %	13.9 %	2.2 %	16.6 %	55.0 %	132.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0068 ppm	104.6826 %	99.6383 %	103.2207 %	104.1176 %	100.0845 %	103.8279 %
Concentration per Run 1	0.0069 ppm	104.5456 %	98.3563 %	103.1478 %	103.9840 %	97.8292 %	103.3217 %
Concentration per Run 2	0.0068 ppm	105.3724 %	99.6474 %	102.5472 %	104.8365 %	100.6392 %	103.3862 %
Concentration per Run 3	0.0067 ppm	104.1297 %	100.9113 %	103.9670 %	103.5322 %	101.7851 %	104.7758 %
Concentration RSD	2.0 %	0.6 %	1.3 %	0.7 %	0.6 %	2.0 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-9 WG1935332
Analysis started at: 6/17/2024 11:03:31 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.9022 ppm	0.1237 ppm	1.0442 ppm	1.9349 ppm	0.0485 ppm	19.7047 ppm
Concentration per Run 1	0.0502 ppm	1.9200 ppm	0.1244 ppm	1.0515 ppm	1.9296 ppm	0.0484 ppm	19.6519 ppm
Concentration per Run 2	0.0493 ppm	1.8963 ppm	0.1221 ppm	1.0403 ppm	1.9395 ppm	0.0486 ppm	19.7387 ppm
Concentration per Run 3	0.0499 ppm	1.8902 ppm	0.1248 ppm	1.0409 ppm	1.9356 ppm	0.0487 ppm	19.7235 ppm
Concentration RSD	0.8 %	0.8 %	1.2 %	0.6 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0539 ppm	0.4963 ppm	0.1946 ppm	0.2471 ppm	3.6889 ppm	11.0712 ppm	0.0010 ppm
Concentration per Run 1	0.0537 ppm	0.4977 ppm	0.1953 ppm	0.2483 ppm	3.6917 ppm	10.9813 ppm	0.0024 ppm
Concentration per Run 2	0.0535 ppm	0.4945 ppm	0.1941 ppm	0.2461 ppm	3.6968 ppm	11.1206 ppm	0.0008 ppm
Concentration per Run 3	0.0546 ppm	0.4968 ppm	0.1942 ppm	0.2469 ppm	3.6782 ppm	11.1117 ppm	-0.0003 ppm
Concentration RSD	1.2 %	0.3 %	0.3 %	0.5 %	0.3 %	0.7 %	141.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.3484 ppm	0.5143 ppm	0.8271 ppm	17.9982 ppm	0.4940 ppm	0.5363 ppm	0.3637 ppm
Concentration per Run 1	14.3440 ppm	0.5144 ppm	0.8100 ppm	17.8465 ppm	0.4971 ppm	0.5435 ppm	0.3504 ppm
Concentration per Run 2	14.3241 ppm	0.5163 ppm	0.8240 ppm	18.0766 ppm	0.4915 ppm	0.5349 ppm	0.3689 ppm
Concentration per Run 3	14.3772 ppm	0.5123 ppm	0.8474 ppm	18.0713 ppm	0.4935 ppm	0.5304 ppm	0.3719 ppm
Concentration RSD	0.2 %	0.4 %	2.3 %	0.7 %	0.6 %	1.2 %	3.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1249 ppm	8.5539 ppm	0.9993 ppm	0.9806 ppm	1.0150 ppm	0.1206 ppm	0.4930 ppm
Concentration per Run 1	0.1280 ppm	8.5303 ppm	0.9987 ppm	0.9784 ppm	1.0219 ppm	0.1213 ppm	0.4939 ppm
Concentration per Run 2	0.1235 ppm	8.5236 ppm	0.9962 ppm	0.9854 ppm	1.0102 ppm	0.1192 ppm	0.4913 ppm
Concentration per Run 3	0.1233 ppm	8.6079 ppm	1.0030 ppm	0.9781 ppm	1.0131 ppm	0.1212 ppm	0.4938 ppm
Concentration RSD	2.1 %	0.5 %	0.3 %	0.4 %	0.6 %	1.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5042 ppm	102.9960 %	101.4953 %	99.8255 %	101.2387 %	101.7490 %	101.2519 %
Concentration per Run 1	0.5041 ppm	103.8743 %	100.4162 %	101.0161 %	102.1393 %	100.5844 %	102.4617 %
Concentration per Run 2	0.5031 ppm	103.5865 %	102.6853 %	100.1784 %	101.8615 %	102.8846 %	101.3444 %
Concentration per Run 3	0.5054 ppm	101.5272 %	101.3845 %	98.2822 %	99.7153 %	101.7780 %	99.9496 %
Concentration RSD	0.2 %	1.2 %	1.1 %	1.4 %	1.3 %	1.1 %	1.2 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: WG1935332-10d5 WG1935332
Analysis started at: 6/17/2024 11:07:02 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0175 ppm	0.0017 ppm	0.0055 ppm	0.0048 ppm	0.0000 ppm	2.0473 ppm
Concentration per Run 1	0.0000 ppm	0.0136 ppm	0.0025 ppm	0.0060 ppm	0.0049 ppm	0.0000 ppm	2.0765 ppm
Concentration per Run 2	-0.0004 ppm	0.0161 ppm	0.0038 ppm	0.0039 ppm	0.0047 ppm	0.0000 ppm	2.0298 ppm
Concentration per Run 3	-0.0005 ppm	0.0228 ppm	-0.0014 ppm	0.0066 ppm	0.0049 ppm	0.0000 ppm	2.0357 ppm
Concentration RSD	76.6 %	27.0 %	165.5 %	25.8 %	1.6 %	672.4 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.5762 ppm	0.1819 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.5848 ppm	0.1664 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0002 ppm	0.5702 ppm	0.2189 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.5737 ppm	0.1605 ppm	-0.0003 ppm
Concentration RSD	2,125.0 %	64.5 %	119.1 %	963.4 %	1.3 %	17.7 %	192.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9021 ppm	0.0081 ppm	0.0079 ppm	1.6528 ppm	0.0015 ppm	0.0013 ppm	0.0053 ppm
Concentration per Run 1	0.9160 ppm	0.0083 ppm	0.0079 ppm	1.6723 ppm	0.0016 ppm	0.0015 ppm	0.0054 ppm
Concentration per Run 2	0.9019 ppm	0.0080 ppm	0.0081 ppm	1.6490 ppm	0.0013 ppm	0.0019 ppm	0.0046 ppm
Concentration per Run 3	0.8885 ppm	0.0081 ppm	0.0077 ppm	1.6371 ppm	0.0015 ppm	0.0005 ppm	0.0058 ppm
Concentration RSD	1.5 %	1.7 %	2.8 %	1.1 %	12.0 %	53.3 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	1.5359 ppm	0.0098 ppm	0.0079 ppm	0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 1	-0.0021 ppm	1.5508 ppm	0.0121 ppm	0.0080 ppm	0.0009 ppm	-0.0017 ppm	-0.0004 ppm
Concentration per Run 2	-0.0021 ppm	1.5340 ppm	0.0091 ppm	0.0079 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0026 ppm	1.5229 ppm	0.0082 ppm	0.0079 ppm	0.0008 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	504.0 %	0.9 %	20.7 %	1.2 %	52.6 %	137.1 %	97.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	103.3563 %	100.9083 %	105.3240 %	103.1804 %	100.9287 %	105.0126 %
Concentration per Run 1	0.0010 ppm	102.5929 %	99.3374 %	105.6981 %	102.5936 %	99.6510 %	105.2046 %
Concentration per Run 2	0.0012 ppm	103.0715 %	102.5262 %	105.1777 %	102.6439 %	102.5749 %	105.1515 %
Concentration per Run 3	0.0012 ppm	104.4046 %	100.8614 %	105.0963 %	104.3038 %	100.5603 %	104.6817 %
Concentration RSD	8.6 %	0.9 %	1.6 %	0.3 %	0.9 %	1.5 %	0.3 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:10:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5066 ppm	0.4809 ppm	0.4731 ppm	0.4936 ppm	0.5007 ppm	0.5157 ppm	0.4878 ppm
Concentration per Run 1	0.5023 ppm	0.4845 ppm	0.4764 ppm	0.4908 ppm	0.5027 ppm	0.5173 ppm	0.4910 ppm
Concentration per Run 2	0.5113 ppm	0.4888 ppm	0.4742 ppm	0.4994 ppm	0.5013 ppm	0.5156 ppm	0.4897 ppm
Concentration per Run 3	0.5063 ppm	0.4694 ppm	0.4686 ppm	0.4905 ppm	0.4980 ppm	0.5143 ppm	0.4826 ppm
Recovery Percentage 1	101.324 %	96.180 %	94.614 %	98.714 %	100.139 %	103.147 %	97.551 %
Concentration RSD	0.9 %	2.1 %	0.9 %	1.0 %	0.5 %	0.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5040 ppm	0.5153 ppm	0.4951 ppm	0.4972 ppm	0.5062 ppm	5.1494 ppm	0.6158 ppm
Concentration per Run 1	0.5010 ppm	0.5142 ppm	0.4897 ppm	0.4940 ppm	0.5091 ppm	5.1847 ppm	0.6190 ppm
Concentration per Run 2	0.5049 ppm	0.5191 ppm	0.4994 ppm	0.5025 ppm	0.5005 ppm	5.1416 ppm	0.6199 ppm
Concentration per Run 3	0.5061 ppm	0.5128 ppm	0.4961 ppm	0.4951 ppm	0.5089 ppm	5.1218 ppm	0.6086 ppm
Recovery Percentage 1	100.802 %	103.068 %	99.010 %	99.437 %	101.231 %	102.988 %	123.170 %
Concentration RSD	0.5 %	0.6 %	1.0 %	0.9 %	1.0 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4953 ppm	0.4917 ppm	0.4973 ppm	10.0952 ppm	0.5130 ppm	0.4944 ppm	0.5120 ppm
Concentration per Run 1	0.4920 ppm	0.4915 ppm	0.4905 ppm	10.1385 ppm	0.5095 ppm	0.5003 ppm	0.5108 ppm
Concentration per Run 2	0.4996 ppm	0.4929 ppm	0.5001 ppm	10.0543 ppm	0.5174 ppm	0.4922 ppm	0.5153 ppm
Concentration per Run 3	0.4942 ppm	0.4908 ppm	0.5013 ppm	10.0927 ppm	0.5121 ppm	0.4907 ppm	0.5098 ppm
Recovery Percentage 1	99.055 %	98.347 %	99.457 %	100.952 %	102.601 %	98.878 %	102.390 %
Concentration RSD	0.8 %	0.2 %	1.2 %	0.4 %	0.8 %	1.0 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4818 ppm	5.6044 ppm	0.5201 ppm	0.4891 ppm	0.5064 ppm	0.4931 ppm	0.4918 ppm
Concentration per Run 1	0.4872 ppm	5.5460 ppm	0.5173 ppm	0.4902 ppm	0.5026 ppm	0.4988 ppm	0.4895 ppm
Concentration per Run 2	0.4854 ppm	5.6537 ppm	0.5248 ppm	0.4885 ppm	0.5101 ppm	0.4916 ppm	0.4951 ppm
Concentration per Run 3	0.4729 ppm	5.6136 ppm	0.5182 ppm	0.4887 ppm	0.5066 ppm	0.4889 ppm	0.4909 ppm
Recovery Percentage 1	96.367 %	106.751 %	104.017 %	97.821 %	101.284 %	98.619 %	98.363 %
Concentration RSD	1.6 %	1.0 %	0.8 %	0.2 %	0.7 %	1.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5058 ppm	102.0226 %	99.9858 %	102.9276 %	100.4692 %	100.0021 %	103.3661 %
Concentration per Run 1	0.5038 ppm	102.1145 %	99.5236 %	102.3734 %	100.7683 %	99.3751 %	102.4337 %
Concentration per Run 2	0.5115 ppm	101.1018 %	99.8780 %	103.1293 %	99.9001 %	99.8106 %	103.9595 %
Concentration per Run 3	0.5022 ppm	102.8516 %	100.5559 %	103.2800 %	100.7393 %	100.8206 %	103.7050 %
Recovery Percentage 1	101.165 %						
Concentration RSD	1.0 %	0.9 %	0.5 %	0.5 %	0.5 %	0.7 %	0.8 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 11:14:01 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0026 ppm	0.0012 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	-0.0009 ppm	0.0077 ppm	-0.0007 ppm	-0.0031 ppm	0.0002 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 2	-0.0003 ppm	0.0000 ppm	0.0019 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0025 ppm	-0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Recovery Percentage 1	-7.843 %	2.635 %	24.553 %	-5.221 %	0.376 %	-0.105 %	3.778 %
Concentration RSD	54.0 %	165.1 %	139.7 %	137.8 %	310.1 %	179.0 %	30.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0086 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0015 ppm	-0.0222 ppm	0.0009 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm	0.0025 ppm	0.0164 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0005 ppm	-0.0002 ppm	0.0315 ppm	0.0001 ppm
Recovery Percentage 1	-1.893 %	0.771 %	-1.334 %	1.880 %	2.496 %	0.343 %	7.606 %
Concentration RSD	179.7 %	213.3 %	131.4 %	190.0 %	110.5 %	322.9 %	115.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0023 ppm	0.0000 ppm	0.0021 ppm	-0.0167 ppm	0.0001 ppm	0.0014 ppm	0.0016 ppm
Concentration per Run 1	0.0028 ppm	-0.0001 ppm	0.0024 ppm	-0.0096 ppm	-0.0004 ppm	0.0010 ppm	-0.0007 ppm
Concentration per Run 2	0.0019 ppm	0.0001 ppm	0.0027 ppm	-0.0212 ppm	0.0010 ppm	0.0013 ppm	0.0024 ppm
Concentration per Run 3	0.0022 ppm	0.0001 ppm	0.0012 ppm	-0.0193 ppm	-0.0004 ppm	0.0018 ppm	0.0029 ppm
Recovery Percentage 1	2.294 %	0.403 %	4.190 %	-0.835 %	0.293 %	13.746 %	3.107 %
Concentration RSD	19.7 %	398.2 %	36.7 %	37.3 %	1,141.3 %	29.2 %	125.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	-0.0162 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0019 ppm	-0.0152 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 2	0.0030 ppm	-0.0153 ppm	0.0014 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0009 ppm	-0.0182 ppm	0.0011 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	0.778 %	-3.249 %	2.465 %	-0.016 %	0.944 %	-2.885 %	-0.669 %
Concentration RSD	3,377.4 %	10.7 %	12.9 %	1,003.1 %	248.3 %	131.8 %	215.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	104.0669 %	100.8468 %	105.5055 %	104.3515 %	101.6545 %	105.6465 %
Concentration per Run 1	-0.0006 ppm	103.6766 %	100.6261 %	105.0345 %	103.8288 %	101.6807 %	105.2851 %
Concentration per Run 2	-0.0005 ppm	103.6046 %	101.4785 %	105.8135 %	104.3950 %	102.1109 %	105.5634 %
Concentration per Run 3	-0.0005 ppm	104.9196 %	100.4358 %	105.6684 %	104.8308 %	101.1720 %	106.0910 %
Recovery Percentage 1	-10.322 %						
Concentration RSD	10.2 %	0.7 %	0.6 %	0.4 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCV
Analysis started at: 6/17/2024 11:17:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4991 ppm	0.4813 ppm	0.4726 ppm	0.4878 ppm	0.4949 ppm	0.5091 ppm	0.4815 ppm
Concentration per Run 1	0.5017 ppm	0.4871 ppm	0.4759 ppm	0.4901 ppm	0.4930 ppm	0.5098 ppm	0.4843 ppm
Concentration per Run 2	0.4974 ppm	0.4819 ppm	0.4730 ppm	0.4874 ppm	0.4981 ppm	0.5110 ppm	0.4848 ppm
Concentration per Run 3	0.4981 ppm	0.4749 ppm	0.4688 ppm	0.4860 ppm	0.4936 ppm	0.5063 ppm	0.4753 ppm
Recovery Percentage 1	99.814 %	96.265 %	94.512 %	97.563 %	98.980 %	101.811 %	96.292 %
Concentration RSD	0.5 %	1.3 %	0.7 %	0.4 %	0.6 %	0.5 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5029 ppm	0.5115 ppm	0.4910 ppm	0.4916 ppm	0.5018 ppm	5.0964 ppm	0.6105 ppm
Concentration per Run 1	0.5121 ppm	0.5198 ppm	0.4927 ppm	0.4960 ppm	0.5032 ppm	5.0977 ppm	0.6155 ppm
Concentration per Run 2	0.4981 ppm	0.5066 ppm	0.4892 ppm	0.4877 ppm	0.5028 ppm	5.1090 ppm	0.6076 ppm
Concentration per Run 3	0.4986 ppm	0.5080 ppm	0.4911 ppm	0.4910 ppm	0.4994 ppm	5.0825 ppm	0.6085 ppm
Recovery Percentage 1	100.585 %	102.291 %	98.201 %	98.313 %	100.357 %	101.928 %	122.102 %
Concentration RSD	1.6 %	1.4 %	0.4 %	0.9 %	0.4 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4867 ppm	0.4880 ppm	0.4903 ppm	9.9691 ppm	0.5096 ppm	0.4973 ppm	0.4983 ppm
Concentration per Run 1	0.4878 ppm	0.4900 ppm	0.4892 ppm	9.8983 ppm	0.5119 ppm	0.4960 ppm	0.5085 ppm
Concentration per Run 2	0.4839 ppm	0.4895 ppm	0.4886 ppm	10.0163 ppm	0.5064 ppm	0.5008 ppm	0.4922 ppm
Concentration per Run 3	0.4885 ppm	0.4845 ppm	0.4931 ppm	9.9927 ppm	0.5105 ppm	0.4951 ppm	0.4943 ppm
Recovery Percentage 1	97.349 %	97.598 %	98.059 %	99.691 %	101.919 %	99.451 %	99.666 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.6 %	0.6 %	0.6 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4847 ppm	5.5377 ppm	0.5086 ppm	0.4826 ppm	0.5008 ppm	0.4939 ppm	0.4870 ppm
Concentration per Run 1	0.4835 ppm	5.5781 ppm	0.5155 ppm	0.4810 ppm	0.5033 ppm	0.4945 ppm	0.4900 ppm
Concentration per Run 2	0.4851 ppm	5.5015 ppm	0.5043 ppm	0.4865 ppm	0.4989 ppm	0.4947 ppm	0.4850 ppm
Concentration per Run 3	0.4856 ppm	5.5335 ppm	0.5061 ppm	0.4803 ppm	0.5003 ppm	0.4925 ppm	0.4859 ppm
Recovery Percentage 1	96.949 %	105.480 %	101.727 %	96.523 %	100.170 %	98.777 %	97.390 %
Concentration RSD	0.2 %	0.7 %	1.2 %	0.7 %	0.5 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5023 ppm	103.1212 %	101.5565 %	102.8767 %	101.6824 %	101.5043 %	103.4706 %
Concentration per Run 1	0.5054 ppm	102.7600 %	101.0428 %	102.8947 %	101.5726 %	101.6153 %	103.4024 %
Concentration per Run 2	0.4989 ppm	103.6487 %	101.7695 %	102.1453 %	102.2522 %	101.2461 %	102.9365 %
Concentration per Run 3	0.5026 ppm	102.9550 %	101.8573 %	103.5903 %	101.2224 %	101.6516 %	104.0728 %
Recovery Percentage 1	100.463 %						
Concentration RSD	0.6 %	0.5 %	0.4 %	0.7 %	0.5 %	0.2 %	0.6 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: CCB
Analysis started at: 6/17/2024 11:21:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0034 ppm	0.0009 ppm	-0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0126 ppm	0.0009 ppm	-0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0007 ppm	-0.0013 ppm	0.0027 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	-0.0003 ppm	-0.0010 ppm	-0.0009 ppm	-0.0020 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-4.993 %	3.419 %	17.669 %	-5.575 %	0.637 %	-0.406 %	1.179 %
Concentration RSD	90.7 %	232.2 %	202.8 %	18.3 %	144.4 %	179.4 %	213.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0028 ppm	0.0098 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0031 ppm	0.0164 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0018 ppm	0.0078 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0033 ppm	0.0051 ppm	0.0007 ppm
Recovery Percentage 1	0.593 %	-0.396 %	-0.920 %	1.770 %	5.508 %	0.391 %	3.163 %
Concentration RSD	335.1 %	339.8 %	261.3 %	110.1 %	28.7 %	60.7 %	297.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0011 ppm	0.0000 ppm	0.0021 ppm	-0.0200 ppm	0.0001 ppm	0.0007 ppm	-0.0013 ppm
Concentration per Run 1	0.0023 ppm	0.0001 ppm	0.0020 ppm	-0.0185 ppm	0.0006 ppm	0.0007 ppm	0.0025 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0022 ppm	-0.0199 ppm	-0.0007 ppm	0.0008 ppm	-0.0037 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	0.0022 ppm	-0.0217 ppm	0.0004 ppm	0.0006 ppm	-0.0028 ppm
Recovery Percentage 1	1.063 %	-0.154 %	4.280 %	-1.001 %	0.310 %	6.758 %	-2.648 %
Concentration RSD	114.6 %	930.1 %	7.3 %	8.1 %	873.8 %	13.5 %	253.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0167 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	-0.0012 ppm	-0.0165 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0016 ppm	-0.0165 ppm	0.0009 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0172 ppm	-0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm
Recovery Percentage 1	-7.849 %	-3.346 %	0.852 %	-0.155 %	1.980 %	1.394 %	-1.942 %
Concentration RSD	137.0 %	2.6 %	249.0 %	589.8 %	71.6 %	233.3 %	88.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	103.9867 %	101.0346 %	105.0824 %	104.2812 %	101.7010 %	105.6163 %
Concentration per Run 1	-0.0004 ppm	104.2590 %	101.2194 %	106.2196 %	104.5088 %	102.1744 %	106.3257 %
Concentration per Run 2	-0.0005 ppm	102.8450 %	101.1895 %	103.7813 %	103.1438 %	101.7016 %	104.4138 %
Concentration per Run 3	-0.0003 ppm	104.8562 %	100.6950 %	105.2464 %	105.1911 %	101.2271 %	106.1095 %
Recovery Percentage 1	-7.845 %						
Concentration RSD	23.1 %	1.0 %	0.3 %	1.2 %	1.0 %	0.5 %	1.0 %

ICP DataTrace 9

6/18/2024 6:19:15 AM

LabBook: WG1935383_06172024T9.imexp

Sample: LLOQ
Analysis started at: 6/17/2024 11:24:30 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0063 ppm	0.1037 ppm	0.0030 ppm	0.0272 ppm	0.0103 ppm	0.0050 ppm	0.0969 ppm
Concentration per Run 1	0.0063 ppm	0.1088 ppm	0.0040 ppm	0.0288 ppm	0.0102 ppm	0.0050 ppm	0.0961 ppm
Concentration per Run 2	0.0066 ppm	0.0944 ppm	0.0049 ppm	0.0267 ppm	0.0102 ppm	0.0050 ppm	0.0985 ppm
Concentration per Run 3	0.0059 ppm	0.1079 ppm	0.0002 ppm	0.0260 ppm	0.0103 ppm	0.0049 ppm	0.0962 ppm
Recovery Percentage 1	89.830 %	103.703 %	60.688 %	90.537 %	102.529 %	99.453 %	96.900 %
Concentration RSD	5.9 %	7.8 %	81.6 %	5.4 %	0.5 %	0.8 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0206 ppm	0.0097 ppm	0.0103 ppm	0.0517 ppm	2.6345 ppm	0.0102 ppm
Concentration per Run 1	0.0040 ppm	0.0210 ppm	0.0097 ppm	0.0108 ppm	0.0526 ppm	2.6325 ppm	0.0095 ppm
Concentration per Run 2	0.0040 ppm	0.0205 ppm	0.0098 ppm	0.0105 ppm	0.0516 ppm	2.6253 ppm	0.0111 ppm
Concentration per Run 3	0.0039 ppm	0.0202 ppm	0.0095 ppm	0.0097 ppm	0.0510 ppm	2.6455 ppm	0.0101 ppm
Recovery Percentage 1	99.856 %	102.756 %	96.722 %	103.283 %	103.497 %	105.378 %	
Concentration RSD	2.1 %	2.0 %	1.8 %	5.2 %	1.6 %	0.4 %	7.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1006 ppm	0.0104 ppm	0.0496 ppm	2.0474 ppm	0.0255 ppm	0.0107 ppm	0.0507 ppm
Concentration per Run 1	0.0999 ppm	0.0103 ppm	0.0499 ppm	2.0516 ppm	0.0253 ppm	0.0108 ppm	0.0504 ppm
Concentration per Run 2	0.1019 ppm	0.0104 ppm	0.0502 ppm	2.0498 ppm	0.0253 ppm	0.0115 ppm	0.0512 ppm
Concentration per Run 3	0.1000 ppm	0.0106 ppm	0.0486 ppm	2.0410 ppm	0.0258 ppm	0.0099 ppm	0.0504 ppm
Recovery Percentage 1	100.599 %	104.182 %	99.170 %	102.372 %	101.842 %	107.274 %	101.329 %
Concentration RSD	1.1 %	1.3 %	1.7 %	0.3 %	1.1 %	7.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0114 ppm	0.5045 ppm	0.0514 ppm	0.0097 ppm	0.0486 ppm	0.0192 ppm	0.0094 ppm
Concentration per Run 1	0.0113 ppm	0.5137 ppm	0.0509 ppm	0.0097 ppm	0.0496 ppm	0.0195 ppm	0.0095 ppm
Concentration per Run 2	0.0131 ppm	0.5095 ppm	0.0512 ppm	0.0096 ppm	0.0488 ppm	0.0187 ppm	0.0094 ppm
Concentration per Run 3	0.0099 ppm	0.4902 ppm	0.0521 ppm	0.0098 ppm	0.0475 ppm	0.0192 ppm	0.0092 ppm
Recovery Percentage 1	114.370 %	100.897 %	102.820 %	97.043 %	97.287 %	95.795 %	93.826 %
Concentration RSD	13.9 %	2.5 %	1.3 %	0.9 %	2.1 %	2.3 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	106.4538 %	100.9066 %	104.7028 %	105.4891 %	101.4207 %	104.5521 %
Concentration per Run 1	0.0040 ppm	104.9548 %	100.0522 %	102.7744 %	104.0859 %	100.3978 %	102.9857 %
Concentration per Run 2	0.0043 ppm	106.7077 %	102.6312 %	104.9049 %	105.8105 %	103.2123 %	104.5673 %
Concentration per Run 3	0.0039 ppm	107.6987 %	100.0364 %	106.4290 %	106.5709 %	100.6521 %	106.1033 %
Recovery Percentage 1	81.186 %						
Concentration RSD	5.0 %	1.3 %	1.5 %	1.8 %	1.2 %	1.5 %	1.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: Blank DHL Trace5
Analysis started at: 6/18/2024 10:45:04 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.9 %	-0.7 %	0.8 %	0.4 %	0.2 %	-251.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %	0.1 %	-0.4 %	0.1 %	1.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.1 %	0.6 %	-0.2 %	0.0 %	0.0 %	-0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.2 %	0.0 %	-0.1 %	-0.4 %	-0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

LabBook: WG1935621_06182024T5.imexp

Sample: ICAL
Analysis started at: 6/18/2024 10:51:23 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9982 ppm	24.5063 ppm	0.9993 ppm	0.9988 ppm	0.9811 ppm	0.9795 ppm	9.8140 ppm
Concentration per Run 2	1.0002 ppm	25.1692 ppm	1.0027 ppm	1.0012 ppm	1.0055 ppm	1.0070 ppm	10.0661 ppm
Concentration per Run 3	1.0016 ppm	25.3245 ppm	0.9980 ppm	0.9999 ppm	1.0135 ppm	1.0134 ppm	10.1199 ppm
Concentration RSD	0.2 %	1.7 %	0.2 %	0.1 %	1.7 %	1.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0008 ppm	1.0004 ppm	0.9982 ppm	0.9974 ppm	24.4957 ppm	34.3005 ppm	10.0009 ppm
Concentration per Run 2	1.0004 ppm	1.0002 ppm	1.0017 ppm	1.0002 ppm	25.1916 ppm	35.2865 ppm	10.0136 ppm
Concentration per Run 3	0.9988 ppm	0.9994 ppm	1.0001 ppm	1.0024 ppm	25.3127 ppm	35.4130 ppm	9.9855 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.3 %	1.8 %	1.7 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9796 ppm	0.9953 ppm	24.5274 ppm	1.0010 ppm	1.0007 ppm	1.0031 ppm	0.9976 ppm
Concentration per Run 2	1.0072 ppm	1.0014 ppm	25.1739 ppm	0.9998 ppm	1.0019 ppm	0.9984 ppm	1.0008 ppm
Concentration per Run 3	1.0132 ppm	1.0033 ppm	25.2987 ppm	0.9992 ppm	0.9974 ppm	0.9985 ppm	1.0016 ppm
Concentration RSD	1.8 %	0.4 %	1.7 %	0.1 %	0.2 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9986 ppm	1.0001 ppm	0.9797 ppm	0.9992 ppm	0.9992 ppm	0.9987 ppm	1.0011 ppm
Concentration per Run 2	10.0092 ppm	1.0007 ppm	1.0066 ppm	1.0005 ppm	1.0017 ppm	1.0014 ppm	1.0003 ppm
Concentration per Run 3	9.9922 ppm	0.9992 ppm	1.0137 ppm	1.0003 ppm	0.9991 ppm	0.9999 ppm	0.9986 ppm
Concentration RSD	0.1 %	0.1 %	1.8 %	0.1 %	0.1 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.0171 %	98.0414 %	98.2483 %	95.1631 %	99.3346 %	100.7843 %
Concentration per Run 1	100.5562 %	97.7702 %	98.2547 %	96.2288 %	99.3813 %	100.4428 %
Concentration per Run 2	98.6959 %	97.7434 %	98.2035 %	94.8551 %	99.2509 %	100.5108 %
Concentration per Run 3	97.7992 %	98.6105 %	98.2866 %	94.4053 %	99.3716 %	101.3991 %
Concentration RSD	1.4 %	0.5 %	0.0 %	1.0 %	0.1 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: ICV
Analysis started at: 6/18/2024 10:57:25 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5246 ppm	0.5165 ppm	0.5077 ppm	0.5108 ppm	0.5058 ppm	0.5110 ppm	0.5004 ppm
Concentration per Run 1	0.5250 ppm	0.4904 ppm	0.5078 ppm	0.5100 ppm	0.4819 ppm	0.4871 ppm	0.4761 ppm
Concentration per Run 2	0.5246 ppm	0.5447 ppm	0.5070 ppm	0.5109 ppm	0.5155 ppm	0.5203 ppm	0.4983 ppm
Concentration per Run 3	0.5243 ppm	0.5145 ppm	0.5083 ppm	0.5116 ppm	0.5200 ppm	0.5257 ppm	0.5267 ppm
Recovery Percentage 1	104.920 %	103.309 %	101.543 %	102.167 %	101.160 %	102.204 %	100.071 %
Concentration RSD	0.1 %	5.3 %	0.1 %	0.2 %	4.1 %	4.1 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5141 ppm	0.5226 ppm	0.5211 ppm	0.5112 ppm	0.5388 ppm	5.3541 ppm	0.5176 ppm
Concentration per Run 1	0.5136 ppm	0.5219 ppm	0.5228 ppm	0.5119 ppm	0.5119 ppm	5.1599 ppm	0.5162 ppm
Concentration per Run 2	0.5138 ppm	0.5222 ppm	0.5204 ppm	0.5109 ppm	0.5501 ppm	5.4443 ppm	0.5155 ppm
Concentration per Run 3	0.5151 ppm	0.5237 ppm	0.5202 ppm	0.5109 ppm	0.5543 ppm	5.4579 ppm	0.5211 ppm
Recovery Percentage 1	102.830 %	104.525 %	104.228 %	102.246 %	107.751 %	107.081 %	103.522 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	4.3 %	3.1 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5030 ppm	0.5115 ppm	10.3021 ppm	0.5245 ppm	0.5211 ppm	0.5190 ppm	0.5159 ppm
Concentration per Run 1	0.4804 ppm	0.5096 ppm	9.8460 ppm	0.5241 ppm	0.5196 ppm	0.5183 ppm	0.5153 ppm
Concentration per Run 2	0.5125 ppm	0.5108 ppm	10.4949 ppm	0.5244 ppm	0.5204 ppm	0.5207 ppm	0.5146 ppm
Concentration per Run 3	0.5161 ppm	0.5141 ppm	10.5654 ppm	0.5250 ppm	0.5231 ppm	0.5180 ppm	0.5178 ppm
Recovery Percentage 1	100.599 %	102.299 %	103.021 %	104.895 %	104.211 %	103.804 %	103.180 %
Concentration RSD	3.9 %	0.5 %	3.8 %	0.1 %	0.4 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3780 ppm	0.5319 ppm	0.5012 ppm	0.5194 ppm	0.5203 ppm	0.5131 ppm	0.5231 ppm
Concentration per Run 1	5.3718 ppm	0.5310 ppm	0.4783 ppm	0.5190 ppm	0.5204 ppm	0.5139 ppm	0.5227 ppm
Concentration per Run 2	5.3749 ppm	0.5322 ppm	0.5110 ppm	0.5203 ppm	0.5180 ppm	0.5120 ppm	0.5227 ppm
Concentration per Run 3	5.3873 ppm	0.5325 ppm	0.5144 ppm	0.5187 ppm	0.5226 ppm	0.5135 ppm	0.5238 ppm
Recovery Percentage 1	102.439 %	106.384 %	100.244 %	103.874 %	104.065 %	102.630 %	104.618 %
Concentration RSD	0.2 %	0.2 %	4.0 %	0.2 %	0.4 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.5100 %	98.9353 %	99.2500 %	89.7664 %	99.3367 %	99.5619 %
Concentration per Run 1	103.1444 %	99.4018 %	99.3661 %	90.3979 %	99.5295 %	99.8153 %
Concentration per Run 2	98.4122 %	98.8598 %	99.2221 %	89.7296 %	99.3785 %	99.4145 %
Concentration per Run 3	96.9734 %	98.5442 %	99.1618 %	89.1716 %	99.1022 %	99.4560 %
Recovery Percentage 1						
Concentration RSD	3.2 %	0.4 %	0.1 %	0.7 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: ICB
Analysis started at: 6/18/2024 11:03:29 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0092 ppm	0.0015 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0001 ppm	-0.0018 ppm	0.0009 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	-0.0029 ppm
Concentration per Run 2	-0.0008 ppm	0.0185 ppm	0.0019 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	-0.0004 ppm	0.0110 ppm	0.0016 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0055 ppm
Recovery Percentage 1	-5.721 %	9.211 %	29.183 %	2.903 %	1.487 %	0.895 %	1.653 %
Concentration RSD	110.1 %	111.1 %	34.3 %	40.6 %	20.6 %	155.9 %	256.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0087 ppm	0.0176 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0068 ppm	0.0261 ppm	-0.0020 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0113 ppm	0.0082 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0082 ppm	0.0187 ppm	-0.0010 ppm
Recovery Percentage 1	2.840 %	0.651 %	-2.083 %	3.863 %	17.490 %	0.706 %	-0.904 %
Concentration RSD	16.5 %	172.7 %	80.6 %	43.7 %	26.1 %	51.0 %	121.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0017 ppm	0.0062 ppm	0.0004 ppm	-0.0001 ppm	0.0010 ppm	0.0049 ppm
Concentration per Run 1	-0.0002 ppm	0.0019 ppm	0.0027 ppm	0.0003 ppm	-0.0012 ppm	-0.0001 ppm	0.0065 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	0.0061 ppm	0.0005 ppm	-0.0001 ppm	0.0023 ppm	0.0030 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	0.0098 ppm	0.0004 ppm	0.0011 ppm	0.0006 ppm	0.0052 ppm
Recovery Percentage 1	-0.445 %	3.466 %	0.310 %	1.616 %	-0.896 %	1.904 %	48.991 %
Concentration RSD	409.0 %	19.5 %	57.1 %	20.2 %	1,271.0 %	129.5 %	35.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.0014 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0007 ppm	0.0006 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	-0.0006 ppm
Recovery Percentage 1	0.174 %	0.695 %	-0.110 %	2.566 %	-1.500 %	0.795 %	-10.318 %
Concentration RSD	48.9 %	71.1 %	1,394.2 %	68.1 %	204.3 %	300.5 %	10.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.2901 %	100.0269 %	100.6065 %	84.4448 %	97.5937 %	97.0985 %
Concentration per Run 1	110.7815 %	99.8782 %	100.5222 %	87.0368 %	97.0935 %	96.6702 %
Concentration per Run 2	98.2008 %	99.9141 %	100.5775 %	82.6534 %	97.7499 %	97.1399 %
Concentration per Run 3	97.8879 %	100.2882 %	100.7198 %	83.6443 %	97.9376 %	97.4854 %
Recovery Percentage 1						
Concentration RSD	7.2 %	0.2 %	0.1 %	2.7 %	0.5 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: ICV
Analysis started at: 6/18/2024 11:12:16 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5181 ppm	0.5323 ppm	0.5047 ppm	0.5049 ppm	0.5165 ppm	0.5193 ppm	0.5284 ppm
Concentration per Run 1	0.5173 ppm	0.5248 ppm	0.5064 ppm	0.5067 ppm	0.5157 ppm	0.5179 ppm	0.5344 ppm
Concentration per Run 2	0.5181 ppm	0.5383 ppm	0.5051 ppm	0.5038 ppm	0.5185 ppm	0.5217 ppm	0.5235 ppm
Concentration per Run 3	0.5188 ppm	0.5336 ppm	0.5025 ppm	0.5043 ppm	0.5152 ppm	0.5181 ppm	0.5273 ppm
Recovery Percentage 1	103.616 %	106.455 %	100.932 %	100.989 %	103.299 %	103.852 %	105.676 %
Concentration RSD	0.1 %	1.3 %	0.4 %	0.3 %	0.3 %	0.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5069 ppm	0.5160 ppm	0.5156 ppm	0.5063 ppm	0.5411 ppm	5.3888 ppm	0.5204 ppm
Concentration per Run 1	0.5079 ppm	0.5163 ppm	0.5159 ppm	0.5048 ppm	0.5369 ppm	5.3935 ppm	0.5186 ppm
Concentration per Run 2	0.5064 ppm	0.5160 ppm	0.5163 ppm	0.5071 ppm	0.5434 ppm	5.4093 ppm	0.5212 ppm
Concentration per Run 3	0.5065 ppm	0.5156 ppm	0.5147 ppm	0.5070 ppm	0.5430 ppm	5.3634 ppm	0.5214 ppm
Recovery Percentage 1	101.390 %	103.195 %	103.120 %	101.260 %	108.222 %	107.775 %	104.080 %
Concentration RSD	0.2 %	0.1 %	0.2 %	0.3 %	0.7 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5176 ppm	0.4995 ppm	10.4795 ppm	0.5228 ppm	0.5211 ppm	0.5154 ppm	0.5188 ppm
Concentration per Run 1	0.5159 ppm	0.4984 ppm	10.4694 ppm	0.5244 ppm	0.5215 ppm	0.5151 ppm	0.5167 ppm
Concentration per Run 2	0.5200 ppm	0.4993 ppm	10.5038 ppm	0.5220 ppm	0.5208 ppm	0.5163 ppm	0.5211 ppm
Concentration per Run 3	0.5170 ppm	0.5007 ppm	10.4654 ppm	0.5219 ppm	0.5210 ppm	0.5149 ppm	0.5186 ppm
Recovery Percentage 1	103.528 %	99.891 %	104.795 %	104.554 %	104.224 %	103.090 %	103.757 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.3 %	0.1 %	0.1 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7445 ppm	0.5096 ppm	0.5064 ppm	0.5157 ppm	0.5127 ppm	0.5107 ppm	0.5183 ppm
Concentration per Run 1	5.7539 ppm	0.5108 ppm	0.5050 ppm	0.5143 ppm	0.5143 ppm	0.5101 ppm	0.5194 ppm
Concentration per Run 2	5.7455 ppm	0.5101 ppm	0.5086 ppm	0.5167 ppm	0.5114 ppm	0.5112 ppm	0.5180 ppm
Concentration per Run 3	5.7341 ppm	0.5080 ppm	0.5057 ppm	0.5161 ppm	0.5123 ppm	0.5109 ppm	0.5175 ppm
Recovery Percentage 1	109.419 %	101.925 %	101.286 %	103.145 %	102.530 %	102.141 %	103.651 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.2 %	0.3 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	97.3090 %	99.9413 %	100.6910 %	89.9895 %	100.2425 %	100.6705 %
Concentration per Run 1	97.2673 %	100.3810 %	100.6940 %	89.7030 %	100.1251 %	101.0168 %
Concentration per Run 2	97.3338 %	99.7640 %	101.0320 %	90.2030 %	100.3884 %	100.4776 %
Concentration per Run 3	97.3260 %	99.6788 %	100.3469 %	90.0625 %	100.2138 %	100.5170 %
Recovery Percentage 1						
Concentration RSD	0.0 %	0.4 %	0.3 %	0.3 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: ICB
Analysis started at: 6/18/2024 11:18:20 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0131 ppm	-0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0131 ppm	0.0005 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 2	-0.0005 ppm	0.0153 ppm	-0.0019 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0039 ppm
Concentration per Run 3	-0.0005 ppm	0.0110 ppm	0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0009 ppm
Recovery Percentage 1	-6.371 %	13.126 %	-3.671 %	0.984 %	2.480 %	1.778 %	-0.641 %
Concentration RSD	24.0 %	16.4 %	799.1 %	176.8 %	45.3 %	65.4 %	530.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0059 ppm	-0.0338 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0070 ppm	-0.0515 ppm	-0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0038 ppm	-0.0356 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0069 ppm	-0.0144 ppm	0.0043 ppm
Recovery Percentage 1	2.753 %	0.967 %	3.475 %	4.634 %	11.825 %	-1.354 %	1.380 %
Concentration RSD	12.8 %	114.2 %	114.4 %	39.6 %	31.3 %	55.0 %	201.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0015 ppm	-0.0006 ppm	0.0006 ppm	0.0002 ppm	0.0011 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	-0.0045 ppm	0.0006 ppm	0.0003 ppm	0.0020 ppm	0.0034 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	-0.0052 ppm	0.0007 ppm	0.0006 ppm	0.0015 ppm	0.0019 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0080 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	1.042 %	2.933 %	-0.029 %	2.347 %	1.984 %	2.291 %	20.526 %
Concentration RSD	57.2 %	21.7 %	1,298.3 %	29.0 %	242.9 %	92.4 %	63.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	0.0017 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 3	0.0016 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	-0.0006 ppm
Recovery Percentage 1	0.248 %	-0.128 %	1.903 %	1.058 %	-3.575 %	1.284 %	-12.342 %
Concentration RSD	55.5 %	408.7 %	47.7 %	241.6 %	103.6 %	312.0 %	8.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.0060 %	100.0919 %	100.9099 %	81.5507 %	97.8347 %	97.6395 %
Concentration per Run 1	100.5879 %	99.8918 %	100.8543 %	79.3478 %	97.3901 %	97.2163 %
Concentration per Run 2	98.0747 %	99.9927 %	101.2182 %	81.8049 %	97.9018 %	97.6511 %
Concentration per Run 3	98.3553 %	100.3912 %	100.6574 %	83.4995 %	98.2123 %	98.0512 %
Recovery Percentage 1						
Concentration RSD	1.4 %	0.3 %	0.3 %	2.6 %	0.4 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LLOQ RL
Analysis started at: 6/18/2024 11:24:41 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0074 ppm	0.1138 ppm	0.0049 ppm	0.0313 ppm	0.0103 ppm	0.0049 ppm	0.1041 ppm
Concentration per Run 1	0.0072 ppm	0.1040 ppm	0.0048 ppm	0.0314 ppm	0.0093 ppm	0.0045 ppm	0.0960 ppm
Concentration per Run 2	0.0075 ppm	0.1147 ppm	0.0049 ppm	0.0310 ppm	0.0105 ppm	0.0052 ppm	0.1128 ppm
Concentration per Run 3	0.0076 ppm	0.1226 ppm	0.0050 ppm	0.0315 ppm	0.0111 ppm	0.0051 ppm	0.1034 ppm
Recovery Percentage 1	106.327 %	113.789 %	98.346 %	104.395 %	102.871 %	98.937 %	104.055 %
Concentration RSD	3.2 %	8.2 %	2.5 %	0.8 %	9.0 %	7.5 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	0.0214 ppm	0.0108 ppm	0.0113 ppm	0.0562 ppm	2.6086 ppm	0.1098 ppm
Concentration per Run 1	0.0043 ppm	0.0213 ppm	0.0108 ppm	0.0114 ppm	0.0501 ppm	2.3971 ppm	0.1078 ppm
Concentration per Run 2	0.0043 ppm	0.0214 ppm	0.0109 ppm	0.0114 ppm	0.0582 ppm	2.6763 ppm	0.1119 ppm
Concentration per Run 3	0.0043 ppm	0.0215 ppm	0.0105 ppm	0.0111 ppm	0.0602 ppm	2.7525 ppm	0.1097 ppm
Recovery Percentage 1	107.241 %	106.807 %	107.554 %	113.062 %	112.306 %	104.345 %	109.779 %
Concentration RSD	0.8 %	0.5 %	1.7 %	1.6 %	9.5 %	7.2 %	1.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0108 ppm	0.0515 ppm	2.0806 ppm	0.0271 ppm	0.0113 ppm	0.0544 ppm	**0.0136 ppm**
Concentration per Run 1	0.0098 ppm	0.0512 ppm	1.8912 ppm	0.0270 ppm	0.0125 ppm	0.0547 ppm	0.0120 ppm
Concentration per Run 2	0.0115 ppm	0.0518 ppm	2.1625 ppm	0.0273 ppm	0.0111 ppm	0.0543 ppm	0.0145 ppm
Concentration per Run 3	0.0111 ppm	0.0516 ppm	2.1880 ppm	0.0269 ppm	0.0105 ppm	0.0543 ppm	0.0143 ppm
Recovery Percentage 1	107.707 %	103.098 %	104.028 %	108.260 %	113.365 %	108.860 %	135.852 %
Concentration RSD	8.3 %	0.6 %	7.9 %	0.8 %	9.1 %	0.5 %	**10.1 %**

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5598 ppm	0.0525 ppm	0.0099 ppm	0.0516 ppm	0.0197 ppm	0.0108 ppm	0.0045 ppm
Concentration per Run 1	0.5622 ppm	0.0533 ppm	0.0091 ppm	0.0519 ppm	0.0191 ppm	0.0110 ppm	0.0045 ppm
Concentration per Run 2	0.5590 ppm	0.0522 ppm	0.0102 ppm	0.0515 ppm	0.0198 ppm	0.0108 ppm	0.0045 ppm
Concentration per Run 3	0.5580 ppm	0.0521 ppm	0.0103 ppm	0.0514 ppm	0.0202 ppm	0.0105 ppm	0.0045 ppm
Recovery Percentage 1	111.955 %	105.037 %	98.722 %	103.219 %	98.569 %	107.800 %	89.373 %
Concentration RSD	0.4 %	1.4 %	6.9 %	0.5 %	3.1 %	2.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2799 %	99.7038 %	100.9338 %	90.5450 %	99.8924 %	100.8885 %
Concentration per Run 1	111.7085 %	99.4936 %	100.9348 %	93.5009 %	99.5517 %	100.5993 %
Concentration per Run 2	100.2788 %	100.1755 %	100.9451 %	89.1810 %	99.9925 %	101.3091 %
Concentration per Run 3	97.8525 %	99.4422 %	100.9215 %	88.9531 %	100.1331 %	100.7570 %
Recovery Percentage 1						
Concentration RSD	7.2 %	0.4 %	0.0 %	2.8 %	0.3 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: ICSA
Analysis started at: 6/18/2024 11:30:58 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	529.5415 ppm	-0.0029 ppm	-0.0049 ppm	0.0021 ppm	-0.0001 ppm	494.4304 ppm
Concentration per Run 1	0.0006 ppm	526.1687 ppm	-0.0009 ppm	-0.0065 ppm	0.0019 ppm	-0.0001 ppm	490.3641 ppm
Concentration per Run 2	0.0006 ppm	528.0390 ppm	-0.0044 ppm	-0.0034 ppm	0.0021 ppm	0.0000 ppm	493.7745 ppm
Concentration per Run 3	0.0006 ppm	534.4170 ppm	-0.0034 ppm	-0.0047 ppm	0.0022 ppm	-0.0001 ppm	499.1527 ppm
Recovery Percentage 1	8.528 %	529,541.537 %	-57.946 %	-16.183 %	20.959 %	-1.220 %	494,430.422 %
Concentration RSD	5.3 %	0.8 %	61.4 %	31.3 %	6.9 %	131.1 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	0.0002 ppm	0.0004 ppm	-0.0116 ppm	191.7467 ppm	0.0302 ppm	492.8888 ppm
Concentration per Run 1	0.0024 ppm	0.0000 ppm	0.0001 ppm	-0.0117 ppm	191.1066 ppm	0.0401 ppm	495.8690 ppm
Concentration per Run 2	0.0024 ppm	0.0003 ppm	0.0001 ppm	-0.0115 ppm	191.6421 ppm	0.0242 ppm	491.4664 ppm
Concentration per Run 3	0.0025 ppm	0.0004 ppm	0.0009 ppm	-0.0117 ppm	192.4915 ppm	0.0264 ppm	491.3309 ppm
Recovery Percentage 1	60.823 %	1.038 %	3.529 %	-116.461 %	383,493.484 %	1.210 %	492,888.776 %
Concentration RSD	1.9 %	104.2 %	129.1 %	0.8 %	0.4 %	28.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0019 ppm	0.0561 ppm	-0.0081 ppm	0.0018 ppm	0.0106 ppm	0.0078 ppm
Concentration per Run 1	0.0003 ppm	-0.0020 ppm	0.0639 ppm	-0.0081 ppm	0.0013 ppm	0.0159 ppm	0.0088 ppm
Concentration per Run 2	0.0002 ppm	-0.0022 ppm	0.0471 ppm	-0.0081 ppm	0.0017 ppm	0.0083 ppm	0.0118 ppm
Concentration per Run 3	0.0000 ppm	-0.0014 ppm	0.0572 ppm	-0.0080 ppm	0.0025 ppm	0.0075 ppm	0.0030 ppm
Recovery Percentage 1	1.628 %	-3.754 %	2.804 %	-32.351 %	18.049 %	21.179 %	78.471 %
Concentration RSD	115.5 %	20.8 %	15.1 %	0.8 %	32.9 %	43.9 %	57.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0205 ppm	0.0003 ppm	0.0046 ppm	0.0050 ppm	-0.0026 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.0195 ppm	0.0005 ppm	0.0046 ppm	0.0051 ppm	-0.0036 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0210 ppm	0.0001 ppm	0.0046 ppm	0.0053 ppm	-0.0002 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0209 ppm	0.0004 ppm	0.0046 ppm	0.0046 ppm	-0.0040 ppm	0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	4.093 %	0.602 %	45.946 %	50.272 %	-12.908 %	1.345 %	-7.009 %
Concentration RSD	3.9 %	73.7 %	0.0 %	7.0 %	79.5 %	77.6 %	21.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	93.4906 %	87.0757 %	88.2665 %	89.6602 %	81.6857 %	91.1897 %
Concentration per Run 1	93.9440 %	86.8838 %	88.1713 %	90.2231 %	81.7197 %	91.2091 %
Concentration per Run 2	93.7180 %	87.1648 %	88.2938 %	89.8882 %	81.6179 %	91.2647 %
Concentration per Run 3	92.8099 %	87.1784 %	88.3346 %	88.8694 %	81.7197 %	91.0952 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.2 %	0.1 %	0.8 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: SIC Multi
Analysis started at: 6/18/2024 12:07:53 PM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0178 ppm	-0.0033 ppm	0.0021 ppm	0.0003 ppm	-0.0030 ppm	-0.0533 ppm
Concentration per Run 1	-0.0006 ppm	0.0097 ppm	-0.0039 ppm	0.0019 ppm	0.0002 ppm	-0.0030 ppm	-0.0562 ppm
Concentration per Run 2	-0.0006 ppm	0.0228 ppm	-0.0047 ppm	0.0025 ppm	0.0003 ppm	-0.0026 ppm	-0.0474 ppm
Concentration per Run 3	-0.0005 ppm	0.0208 ppm	-0.0011 ppm	0.0018 ppm	0.0003 ppm	-0.0035 ppm	-0.0562 ppm
Recovery Percentage 1	-8.077 %	17.781 %	-65.200 %	6.959 %	2.894 %	-60.964 %	-53.251 %
Concentration RSD	16.4 %	39.7 %	57.8 %	18.6 %	19.5 %	13.3 %	9.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0005 ppm	0.0089 ppm	20.7523 ppm	-0.0025 ppm	-0.0047 ppm	-0.0582 ppm	-0.0262 ppm
Concentration per Run 1	-0.0006 ppm	0.0089 ppm	20.7498 ppm	-0.0024 ppm	-0.0062 ppm	-0.0902 ppm	-0.0269 ppm
Concentration per Run 2	-0.0005 ppm	0.0085 ppm	20.7005 ppm	-0.0029 ppm	-0.0042 ppm	-0.0308 ppm	-0.0271 ppm
Concentration per Run 3	-0.0006 ppm	0.0092 ppm	20.8065 ppm	-0.0022 ppm	-0.0037 ppm	-0.0535 ppm	-0.0247 ppm
Recovery Percentage 1	-13.451 %	44.262 %	207,522.609 %	-24.709 %	-9.424 %	-2.327 %	-26.218 %
Concentration RSD	7.6 %	3.9 %	0.3 %	15.1 %	28.5 %	51.5 %	5.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.8052 ppm	0.0008 ppm	-0.0066 ppm	0.0003 ppm	0.0032 ppm	0.0058 ppm	-0.0046 ppm
Concentration per Run 1	20.8026 ppm	0.0006 ppm	-0.0090 ppm	0.0002 ppm	0.0031 ppm	0.0067 ppm	-0.0038 ppm
Concentration per Run 2	20.8338 ppm	0.0011 ppm	0.0003 ppm	0.0004 ppm	0.0033 ppm	0.0056 ppm	-0.0054 ppm
Concentration per Run 3	20.7791 ppm	0.0008 ppm	-0.0112 ppm	0.0003 ppm	0.0032 ppm	0.0051 ppm	-0.0046 ppm
Recovery Percentage 1	208,051.540 %	1.631 %	-0.330 %	1.113 %	31.895 %	11.601 %	-46.300 %
Concentration RSD	0.1 %	28.0 %	92.5 %	27.4 %	4.2 %	13.7 %	17.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0499 ppm	-0.0033 ppm	0.0005 ppm	19.3623 ppm	-0.0016 ppm	10.5333 ppm	-0.0055 ppm
Concentration per Run 1	0.0510 ppm	-0.0031 ppm	0.0004 ppm	19.3611 ppm	-0.0023 ppm	10.4825 ppm	-0.0054 ppm
Concentration per Run 2	0.0483 ppm	-0.0035 ppm	0.0005 ppm	19.4944 ppm	-0.0007 ppm	10.5190 ppm	-0.0056 ppm
Concentration per Run 3	0.0505 ppm	-0.0033 ppm	0.0005 ppm	19.2315 ppm	-0.0017 ppm	10.5984 ppm	-0.0056 ppm
Recovery Percentage 1	9.989 %	-6.658 %	4.577 %	193,623.489 %	-7.867 %	105,332.867 %	-110.217 %
Concentration RSD	2.8 %	5.8 %	12.2 %	0.7 %	53.8 %	0.6 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.1607 %	99.0961 %	101.0596 %	93.6219 %	101.8979 %	103.7208 %
Concentration per Run 1	98.8215 %	99.4577 %	101.3180 %	93.2299 %	101.9100 %	103.8449 %
Concentration per Run 2	98.8790 %	99.0894 %	100.9884 %	93.4325 %	101.9886 %	103.8761 %
Concentration per Run 3	99.7815 %	98.7413 %	100.8724 %	94.2032 %	101.7950 %	103.4413 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.4 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LDR Check
Analysis started at: 6/18/2024 12:14:37 PM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0871 ppm	20.8455 ppm	19.2173 ppm	20.3007 ppm	4.9509 ppm	0.0159 ppm
Concentration per Run 1	0.0007 ppm	0.0953 ppm	20.6467 ppm	19.0220 ppm	20.1085 ppm	4.9124 ppm	0.0178 ppm
Concentration per Run 2	0.0010 ppm	0.0838 ppm	20.8816 ppm	19.2529 ppm	20.3155 ppm	4.9511 ppm	0.0106 ppm
Concentration per Run 3	0.0003 ppm	0.0822 ppm	21.0082 ppm	19.3769 ppm	20.4780 ppm	4.9891 ppm	0.0192 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.228 %	96.086 %	101.503 %	99.018 %	0.000 %
Concentration RSD	48.6 %	8.2 %	0.9 %	0.9 %	0.9 %	0.8 %	28.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	4.9003 ppm	4.9455 ppm	-0.0008 ppm	20.9459 ppm	0.0451 ppm	421.8914 ppm	-0.0382 ppm
Concentration per Run 1	4.8544 ppm	4.8985 ppm	-0.0007 ppm	21.0408 ppm	0.0440 ppm	427.7977 ppm	-0.0370 ppm
Concentration per Run 2	4.9112 ppm	4.9562 ppm	-0.0010 ppm	20.9435 ppm	0.0461 ppm	421.2581 ppm	-0.0394 ppm
Concentration per Run 3	4.9355 ppm	4.9820 ppm	-0.0007 ppm	20.8535 ppm	0.0453 ppm	416.6183 ppm	-0.0381 ppm
Recovery Percentage 1	98.007 %	98.911 %	0.000 %	104.730 %	0.000 %	84.378 %	0.000 %
Concentration RSD	0.8 %	0.9 %	22.3 %	0.4 %	2.3 %	1.3 %	3.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	5.1533 ppm	377.4533 ppm	9.6525 ppm	48.5170 ppm	5.1965 ppm	4.9773 ppm
Concentration per Run 1	0.0010 ppm	5.0916 ppm	378.4501 ppm	9.5606 ppm	48.0459 ppm	5.1401 ppm	4.9234 ppm
Concentration per Run 2	0.0006 ppm	5.1643 ppm	376.6961 ppm	9.6712 ppm	48.6229 ppm	5.2101 ppm	4.9772 ppm
Concentration per Run 3	0.0009 ppm	5.2040 ppm	377.2139 ppm	9.7257 ppm	48.8822 ppm	5.2392 ppm	5.0314 ppm
Recovery Percentage 1	0.000 %	103.066 %	75.491 %	96.525 %	97.034 %	103.930 %	99.546 %
Concentration RSD	22.8 %	1.1 %	0.2 %	0.9 %	0.9 %	1.0 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	22.6131 ppm	7.4368 ppm	4.9024 ppm	0.0073 ppm	4.6268 ppm	-0.0026 ppm	19.6449 ppm
Concentration per Run 1	22.3793 ppm	7.3667 ppm	4.8814 ppm	0.0078 ppm	4.5860 ppm	-0.0025 ppm	19.4674 ppm
Concentration per Run 2	22.6530 ppm	7.4583 ppm	4.9919 ppm	0.0071 ppm	4.6380 ppm	-0.0026 ppm	19.6862 ppm
Concentration per Run 3	22.8069 ppm	7.4853 ppm	4.8340 ppm	0.0070 ppm	4.6564 ppm	-0.0027 ppm	19.7811 ppm
Recovery Percentage 1	113.065 %	74.368 %	98.048 %	0.000 %	92.536 %	0.000 %	98.225 %
Concentration RSD	1.0 %	0.8 %	1.7 %	6.3 %	0.8 %	2.3 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	96.9273 %	89.1750 %	82.5828 %	90.9483 %	93.5118 %	94.9899 %
Concentration per Run 1	97.6810 %	88.9502 %	83.5601 %	91.7644 %	94.3693 %	94.7973 %
Concentration per Run 2	96.6631 %	89.2895 %	82.0653 %	90.5600 %	93.3545 %	95.3192 %
Concentration per Run 3	96.4378 %	89.2854 %	82.1230 %	90.5205 %	92.8117 %	94.8531 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.2 %	1.0 %	0.8 %	0.8 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LLOQ 0.01 Se pass
Analysis started at: 6/18/2024 12:31:58 PM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0094 ppm	0.0194 ppm	0.0114 ppm	0.0207 ppm	0.0106 ppm	0.0103 ppm	0.0148 ppm
Concentration per Run 1	0.0093 ppm	0.0226 ppm	0.0107 ppm	0.0212 ppm	0.0103 ppm	0.0101 ppm	0.0116 ppm
Concentration per Run 2	0.0098 ppm	0.0191 ppm	0.0129 ppm	0.0206 ppm	0.0108 ppm	0.0104 ppm	0.0118 ppm
Concentration per Run 3	0.0091 ppm	0.0166 ppm	0.0106 ppm	0.0204 ppm	0.0107 ppm	0.0104 ppm	0.0210 ppm
Recovery Percentage 1	0.000 %	0.000 %	114.028 %	207.430 %	105.963 %	0.000 %	0.000 %
Concentration RSD	3.8 %	15.7 %	11.2 %	2.0 %	2.4 %	1.5 %	36.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0101 ppm	0.0101 ppm	0.0098 ppm	0.0100 ppm	0.0145 ppm	0.3618 ppm	0.0114 ppm
Concentration per Run 1	0.0100 ppm	0.0098 ppm	0.0102 ppm	0.0098 ppm	0.0157 ppm	0.3199 ppm	0.0117 ppm
Concentration per Run 2	0.0101 ppm	0.0102 ppm	0.0095 ppm	0.0101 ppm	0.0136 ppm	0.3786 ppm	0.0108 ppm
Concentration per Run 3	0.0103 ppm	0.0104 ppm	0.0096 ppm	0.0100 ppm	0.0141 ppm	0.3870 ppm	0.0117 ppm
Recovery Percentage 1	0.000 %	100.998 %	97.675 %	99.671 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.9 %	3.1 %	3.5 %	1.6 %	7.6 %	10.1 %	4.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0107 ppm	0.0124 ppm	0.3160 ppm	0.0107 ppm	0.0106 ppm	0.0126 ppm	0.0118 ppm
Concentration per Run 1	0.0099 ppm	0.0125 ppm	0.3117 ppm	0.0104 ppm	0.0094 ppm	0.0131 ppm	0.0111 ppm
Concentration per Run 2	0.0111 ppm	0.0124 ppm	0.3157 ppm	0.0109 ppm	0.0117 ppm	0.0130 ppm	0.0117 ppm
Concentration per Run 3	0.0111 ppm	0.0124 ppm	0.3206 ppm	0.0109 ppm	0.0109 ppm	0.0118 ppm	0.0125 ppm
Recovery Percentage 1	107.134 %	124.255 %	0.000 %	107.211 %	106.430 %	0.000 %	117.979 %
Concentration RSD	6.8 %	0.5 %	1.4 %	2.4 %	10.9 %	5.5 %	5.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1176 ppm	0.0103 ppm	0.0106 ppm	0.0100 ppm	0.0101 ppm	0.0103 ppm	0.0097 ppm
Concentration per Run 1	0.1154 ppm	0.0104 ppm	0.0103 ppm	0.0097 ppm	0.0100 ppm	0.0106 ppm	0.0095 ppm
Concentration per Run 2	0.1181 ppm	0.0100 ppm	0.0107 ppm	0.0100 ppm	0.0105 ppm	0.0100 ppm	0.0096 ppm
Concentration per Run 3	0.1192 ppm	0.0104 ppm	0.0107 ppm	0.0102 ppm	0.0098 ppm	0.0104 ppm	0.0099 ppm
Recovery Percentage 1	0.000 %	102.773 %	105.633 %	100.069 %	100.837 %	103.369 %	97.011 %
Concentration RSD	1.7 %	2.3 %	2.1 %	2.5 %	3.4 %	2.7 %	2.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.5786 %	98.7504 %	101.0379 %	106.6310 %	102.2367 %	106.5923 %
Concentration per Run 1	102.8029 %	98.5695 %	100.7004 %	110.3408 %	102.3602 %	107.0010 %
Concentration per Run 2	98.7700 %	98.9984 %	101.3308 %	105.9537 %	102.5184 %	106.6597 %
Concentration per Run 3	100.1629 %	98.6833 %	101.0824 %	103.5985 %	101.8315 %	106.1161 %
Recovery Percentage 1						
Concentration RSD	2.0 %	0.2 %	0.3 %	3.2 %	0.4 %	0.4 %

LabBook: WG1935621_06182024T5.imexp

Sample: IEC 10 V Tl+ Zn+
Analysis started at: 6/18/2024 12:38:13 PM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0144 ppm	-0.0004 ppm	0.0080 ppm	0.0000 ppm	-0.0005 ppm	-0.0715 ppm
Concentration per Run 1	-0.0008 ppm	0.0220 ppm	0.0000 ppm	0.0085 ppm	0.0002 ppm	-0.0004 ppm	-0.0680 ppm
Concentration per Run 2	-0.0010 ppm	0.0140 ppm	-0.0002 ppm	0.0079 ppm	-0.0001 ppm	-0.0004 ppm	-0.0757 ppm
Concentration per Run 3	-0.0010 ppm	0.0073 ppm	-0.0011 ppm	0.0074 ppm	0.0001 ppm	-0.0006 ppm	-0.0709 ppm
Recovery Percentage 1	-13.099 %	14.418 %	-8.938 %	26.567 %	0.314 %	-9.093 %	-71.526 %
Concentration RSD	15.5 %	51.1 %	136.2 %	6.7 %	475.0 %	25.4 %	5.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0434 ppm	0.0450 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0556 ppm	0.0506 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0418 ppm	0.0311 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0327 ppm	0.0533 ppm	0.0042 ppm
Recovery Percentage 1	0.076 %	-0.459 %	-4.033 %	0.529 %	86.813 %	1.799 %	3.786 %
Concentration RSD	913.8 %	104.3 %	39.5 %	473.4 %	26.5 %	27.0 %	25.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0021 ppm	0.0019 ppm	0.0407 ppm	0.0009 ppm	-0.0003 ppm	0.0018 ppm	0.0032 ppm
Concentration per Run 1	0.0022 ppm	0.0019 ppm	0.0381 ppm	0.0008 ppm	0.0007 ppm	0.0026 ppm	0.0035 ppm
Concentration per Run 2	0.0025 ppm	0.0020 ppm	0.0386 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 3	0.0014 ppm	0.0019 ppm	0.0454 ppm	0.0010 ppm	-0.0011 ppm	0.0027 ppm	0.0039 ppm
Recovery Percentage 1	20.620 %	3.892 %	2.035 %	3.694 %	-2.658 %	3.635 %	31.920 %
Concentration RSD	27.0 %	4.7 %	10.0 %	11.2 %	349.5 %	81.6 %	27.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0022 ppm	-0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0000 ppm	11.4351 ppm	0.0000 ppm
Concentration per Run 1	-0.0029 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	11.5138 ppm	0.0002 ppm
Concentration per Run 2	-0.0020 ppm	-0.0007 ppm	0.0001 ppm	0.0008 ppm	0.0004 ppm	11.4256 ppm	0.0000 ppm
Concentration per Run 3	-0.0017 ppm	-0.0008 ppm	-0.0001 ppm	0.0006 ppm	-0.0006 ppm	11.3659 ppm	-0.0002 ppm
Recovery Percentage 1	-0.437 %	-1.033 %	0.492 %	6.633 %	-0.034 %	114,351.013 %	0.021 %
Concentration RSD	29.5 %	73.1 %	206.4 %	21.9 %	7,832.9 %	0.7 %	18,485.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.9139 %	98.8095 %	101.1226 %	85.2963 %	100.7142 %	102.2609 %
Concentration per Run 1	102.0148 %	98.5277 %	101.2293 %	83.1627 %	100.6842 %	101.7965 %
Concentration per Run 2	100.7389 %	99.1653 %	101.2261 %	85.6158 %	100.8105 %	102.6203 %
Concentration per Run 3	99.9881 %	98.7356 %	100.9123 %	87.1103 %	100.6479 %	102.3660 %
Recovery Percentage 1						
Concentration RSD	1.0 %	0.3 %	0.2 %	2.3 %	0.1 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: IEC 500 Al Pb-
Analysis started at: 6/18/2024 12:44:41 PM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	553.8370 ppm	0.0037 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0005 ppm	557.6736 ppm	0.0048 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0015 ppm	551.4220 ppm	0.0048 ppm	-0.0005 ppm	-0.0003 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 3	-0.0009 ppm	552.4153 ppm	0.0015 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	-13.548 %	553,836.994 %	74.350 %	-1.434 %	-1.000 %	0.582 %	-0.595 %
Concentration RSD	52.5 %	0.6 %	52.3 %	36.8 %	280.0 %	31.5 %	659.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0010 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0639 ppm	0.1358 ppm	-0.0578 ppm
Concentration per Run 1	-0.0010 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0647 ppm	0.1773 ppm	-0.0606 ppm
Concentration per Run 2	-0.0010 ppm	0.0001 ppm	0.0007 ppm	0.0009 ppm	-0.0649 ppm	0.1252 ppm	-0.0551 ppm
Concentration per Run 3	-0.0010 ppm	-0.0002 ppm	-0.0001 ppm	0.0009 ppm	-0.0620 ppm	0.1049 ppm	-0.0578 ppm
Recovery Percentage 1	-25.972 %	-0.509 %	1.918 %	5.482 %	-127.735 %	5.431 %	-57.810 %
Concentration RSD	0.7 %	129.3 %	214.1 %	103.0 %	2.5 %	27.5 %	4.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0004 ppm	0.0518 ppm	0.0016 ppm	0.0000 ppm	0.0087 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0635 ppm	0.0018 ppm	0.0005 ppm	0.0081 ppm	-0.0012 ppm
Concentration per Run 2	-0.0003 ppm	0.0006 ppm	0.0498 ppm	0.0015 ppm	0.0010 ppm	0.0112 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	0.0422 ppm	0.0015 ppm	-0.0015 ppm	0.0067 ppm	0.0071 ppm
Recovery Percentage 1	-1.953 %	0.741 %	2.592 %	6.429 %	0.048 %	17.355 %	19.957 %
Concentration RSD	94.5 %	47.5 %	20.8 %	8.6 %	27,405.3 %	26.6 %	222.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0125 ppm	-0.0006 ppm	0.0000 ppm	0.0003 ppm	-0.0022 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0131 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0026 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 2	0.0118 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 3	0.0125 ppm	-0.0010 ppm	-0.0001 ppm	0.0003 ppm	-0.0035 ppm	0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	2.495 %	-1.133 %	0.448 %	3.081 %	-10.949 %	7.507 %	-6.981 %
Concentration RSD	5.4 %	70.5 %	330.4 %	36.8 %	70.4 %	44.9 %	16.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.1342 %	92.2330 %	98.0016 %	90.2220 %	92.8098 %	96.9776 %
Concentration per Run 1	99.9338 %	92.4910 %	98.0237 %	89.1580 %	92.5643 %	97.4122 %
Concentration per Run 2	100.0384 %	92.1340 %	98.0159 %	90.4399 %	92.8360 %	96.7864 %
Concentration per Run 3	100.4305 %	92.0739 %	97.9651 %	91.0681 %	93.0291 %	96.7342 %
Recovery Percentage 1						
Concentration RSD	0.3 %	0.2 %	0.0 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LDR 300 K pass
Analysis started at: 6/18/2024 12:59:21 PM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0174 ppm	0.0007 ppm	0.0035 ppm	0.0001 ppm	0.0001 ppm	0.0109 ppm
Concentration per Run 1	-0.0007 ppm	0.0115 ppm	0.0008 ppm	0.0034 ppm	0.0002 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 2	-0.0005 ppm	0.0247 ppm	0.0008 ppm	0.0035 ppm	-0.0002 ppm	0.0001 ppm	0.0049 ppm
Concentration per Run 3	-0.0008 ppm	0.0160 ppm	0.0005 ppm	0.0037 ppm	0.0001 ppm	0.0001 ppm	0.0138 ppm
Concentration RSD	28.2 %	38.7 %	28.2 %	4.4 %	388.3 %	59.3 %	47.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0071 ppm	288.0992 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0048 ppm	289.9976 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0085 ppm	288.6871 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0080 ppm	285.6130 ppm	0.0008 ppm
Concentration RSD	72.8 %	505.3 %	43.6 %	20.3 %	27.8 %	0.8 %	84.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0342 ppm	0.0003 ppm	-0.0003 ppm	0.0018 ppm	0.0021 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0305 ppm	-0.0001 ppm	-0.0002 ppm	0.0026 ppm	0.0039 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0279 ppm	0.0002 ppm	-0.0003 ppm	0.0014 ppm	0.0020 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0443 ppm	0.0009 ppm	-0.0003 ppm	0.0016 ppm	0.0004 ppm
Concentration RSD	60.9 %	141.4 %	25.7 %	141.5 %	30.5 %	36.1 %	83.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0026 ppm	-0.0009 ppm	0.0000 ppm	0.0003 ppm	-0.0013 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.0023 ppm	-0.0011 ppm	-0.0002 ppm	0.0002 ppm	-0.0013 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.0023 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0034 ppm	-0.0009 ppm	0.0001 ppm	0.0006 ppm	-0.0015 ppm	0.0000 ppm	-0.0009 ppm
Concentration RSD	25.2 %	22.7 %	280.9 %	93.2 %	12.3 %	92.4 %	7.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	96.9836 %	94.9577 %	97.3940 %	83.5692 %	94.7800 %	97.9800 %
Concentration per Run 1	96.7610 %	94.9646 %	97.6056 %	82.2315 %	94.7410 %	97.6971 %
Concentration per Run 2	96.7349 %	95.0270 %	97.2369 %	83.7483 %	94.5936 %	98.0041 %
Concentration per Run 3	97.4550 %	94.8816 %	97.3396 %	84.7279 %	95.0053 %	98.2389 %
Concentration RSD	0.4 %	0.1 %	0.2 %	1.5 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LDR 200 Na pass
Analysis started at: 6/18/2024 1:08:17 PM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0126 ppm	-0.0006 ppm	0.0024 ppm	0.0000 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 1	-0.0009 ppm	0.0036 ppm	-0.0010 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0135 ppm
Concentration per Run 2	-0.0004 ppm	0.0134 ppm	-0.0001 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0100 ppm
Concentration per Run 3	-0.0007 ppm	0.0207 ppm	-0.0006 ppm	0.0024 ppm	0.0000 ppm	0.0001 ppm	0.0140 ppm
Concentration RSD	40.5 %	68.0 %	75.1 %	3.9 %	477.6 %	139.1 %	17.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0059 ppm	0.5067 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0031 ppm	0.4929 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0065 ppm	0.5073 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0081 ppm	0.5199 ppm	0.0022 ppm
Concentration RSD	404.7 %	54.8 %	159.6 %	3.9 %	42.7 %	2.7 %	43.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	187.6651 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	186.9371 ppm	0.0002 ppm	-0.0002 ppm	0.0009 ppm	0.0028 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	185.6772 ppm	0.0008 ppm	0.0004 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	190.3809 ppm	0.0005 ppm	-0.0001 ppm	0.0013 ppm	0.0010 ppm
Concentration RSD	88.8 %	39.7 %	1.3 %	61.2 %	768.9 %	613.6 %	65.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0015 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.0019 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0011 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 2	0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm
Concentration per Run 3	0.0018 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	-0.0010 ppm	0.0001 ppm	-0.0008 ppm
Concentration RSD	35.9 %	52.1 %	171.5 %	362.9 %	2,607.3 %	50.2 %	11.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.5050 %	94.1856 %	96.7080 %	84.7987 %	94.5894 %	98.1275 %
Concentration per Run 1	100.5327 %	94.2176 %	96.7710 %	82.6700 %	94.4508 %	97.7648 %
Concentration per Run 2	100.4170 %	94.2705 %	96.7490 %	85.9069 %	94.7340 %	98.0231 %
Concentration per Run 3	97.5652 %	94.0687 %	96.6041 %	85.8192 %	94.5835 %	98.5946 %
Concentration RSD	1.7 %	0.1 %	0.1 %	2.2 %	0.1 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LDR 20 Si pass
Analysis started at: 6/18/2024 1:14:38 PM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0094 ppm	-0.0004 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	-0.0008 ppm	0.0120 ppm	-0.0002 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0014 ppm	0.0064 ppm	-0.0011 ppm	0.0020 ppm	-0.0003 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	-0.0004 ppm	0.0096 ppm	0.0000 ppm	0.0028 ppm	-0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration RSD	59.4 %	30.1 %	131.2 %	18.6 %	125.6 %	122.2 %	149.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.0032 ppm	0.1299 ppm	0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	0.0036 ppm	0.1423 ppm	0.0026 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0007 ppm	-0.0004 ppm	0.0023 ppm	0.1205 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0036 ppm	0.1269 ppm	0.0018 ppm
Concentration RSD	53.7 %	53.8 %	83.5 %	189.8 %	23.9 %	8.6 %	20.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0869 ppm	-0.0002 ppm	0.0007 ppm	0.0016 ppm	0.0032 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0940 ppm	-0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0823 ppm	0.0000 ppm	0.0015 ppm	0.0036 ppm	0.0011 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0846 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0062 ppm
Concentration RSD	101.6 %	69.4 %	7.1 %	90.3 %	116.3 %	112.8 %	84.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	19.5310 ppm	-0.0003 ppm	0.0001 ppm	0.0005 ppm	-0.0010 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 1	19.5811 ppm	-0.0003 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 2	19.5349 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	-0.0008 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 3	19.4771 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0013 ppm	0.0006 ppm	-0.0009 ppm
Concentration RSD	0.3 %	98.9 %	201.9 %	50.9 %	22.7 %	128.2 %	4.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.2222 %	100.1734 %	101.3867 %	98.1881 %	102.1480 %	105.4740 %
Concentration per Run 1	114.9878 %	100.3816 %	101.3370 %	102.3402 %	102.3461 %	105.5793 %
Concentration per Run 2	104.9653 %	99.9802 %	101.3320 %	97.3967 %	102.0201 %	105.2252 %
Concentration per Run 3	101.7134 %	100.1583 %	101.4910 %	94.8274 %	102.0777 %	105.6176 %
Concentration RSD	6.5 %	0.2 %	0.1 %	3.9 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LDR 10 Sn pass
Analysis started at: 6/18/2024 1:20:57 PM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0011 ppm	0.0188 ppm	0.0000 ppm	0.0028 ppm	-0.0001 ppm	0.0000 ppm	0.0133 ppm
Concentration per Run 1	-0.0008 ppm	0.0159 ppm	-0.0020 ppm	0.0027 ppm	-0.0004 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 2	-0.0012 ppm	0.0293 ppm	0.0012 ppm	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0101 ppm
Concentration per Run 3	-0.0012 ppm	0.0112 ppm	0.0008 ppm	0.0026 ppm	0.0001 ppm	0.0001 ppm	0.0156 ppm
Concentration RSD	20.7 %	50.1 %	88,784.4 %	10.2 %	526.7 %	109.1 %	21.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0053 ppm	0.0524 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0081 ppm	0.0889 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0046 ppm	0.0579 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0032 ppm	0.0103 ppm	0.0034 ppm
Concentration RSD	80.2 %	130.2 %	52.9 %	79.1 %	48.5 %	75.6 %	138.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0347 ppm	0.0001 ppm	0.0003 ppm	0.1308 ppm	0.0012 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	0.0253 ppm	0.0000 ppm	0.0003 ppm	0.1302 ppm	0.0002 ppm
Concentration per Run 2	0.0006 ppm	-0.0001 ppm	0.0422 ppm	0.0003 ppm	-0.0002 ppm	0.1307 ppm	0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0367 ppm	0.0001 ppm	0.0008 ppm	0.1314 ppm	0.0033 ppm
Concentration RSD	211.3 %	80.2 %	24.8 %	84.4 %	157.7 %	0.4 %	152.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0304 ppm	10.4844 ppm	0.0000 ppm	0.0020 ppm	-0.0012 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 1	0.0307 ppm	10.3998 ppm	0.0000 ppm	0.0019 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0303 ppm	10.5048 ppm	0.0000 ppm	0.0019 ppm	-0.0012 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 3	0.0303 ppm	10.5487 ppm	0.0000 ppm	0.0021 ppm	-0.0024 ppm	0.0001 ppm	-0.0004 ppm
Concentration RSD	0.7 %	0.7 %	448.8 %	4.9 %	104.0 %	177.9 %	13.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0768 %	99.1397 %	100.7481 %	88.5488 %	101.0717 %	103.3413 %
Concentration per Run 1	102.0433 %	99.0019 %	101.1424 %	87.9259 %	100.9640 %	103.0830 %
Concentration per Run 2	100.6037 %	99.0649 %	100.6802 %	88.2609 %	101.0188 %	103.3329 %
Concentration per Run 3	100.5834 %	99.3521 %	100.4217 %	89.4597 %	101.2321 %	103.6081 %
Concentration RSD	0.8 %	0.2 %	0.4 %	0.9 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: IEC 20 Cr Zn- V- Sb+
Analysis started at: 6/18/2024 1:27:50 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0111 ppm	0.0004 ppm	0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0048 ppm
Concentration per Run 1	-0.0002 ppm	0.0105 ppm	0.0010 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 2	-0.0011 ppm	0.0247 ppm	-0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0064 ppm
Concentration per Run 3	-0.0009 ppm	-0.0019 ppm	0.0008 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	-10.742 %	11.109 %	8.698 %	2.379 %	2.268 %	1.699 %	4.804 %
Concentration RSD	63.6 %	120.0 %	181.8 %	8.3 %	84.7 %	53.2 %	33.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0005 ppm	0.0065 ppm	**21.3811 ppm**	-0.0001 ppm	0.0047 ppm	-0.0358 ppm	0.0007 ppm
Concentration per Run 1	-0.0005 ppm	0.0067 ppm	21.3578 ppm	-0.0002 ppm	0.0055 ppm	-0.0040 ppm	-0.0010 ppm
Concentration per Run 2	-0.0005 ppm	0.0065 ppm	21.4255 ppm	0.0001 ppm	0.0039 ppm	-0.0754 ppm	0.0005 ppm
Concentration per Run 3	-0.0006 ppm	0.0064 ppm	21.3599 ppm	-0.0001 ppm	0.0047 ppm	-0.0279 ppm	0.0027 ppm
Recovery Percentage 1	-13.545 %	32.664 %	213,810.623 %	-0.564 %	9.373 %	-1.431 %	0.716 %
Concentration RSD	6.1 %	1.8 %	**0.2 %**	315.6 %	17.3 %	101.6 %	261.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	0.0188 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 1	0.0003 ppm	0.0003 ppm	0.0232 ppm	0.0003 ppm	0.0003 ppm	-0.0006 ppm	0.0044 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0069 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	0.0031 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0262 ppm	-0.0001 ppm	-0.0008 ppm	0.0005 ppm	0.0029 ppm
Recovery Percentage 1	2.865 %	0.385 %	0.938 %	0.986 %	-1.444 %	0.157 %	34.636 %
Concentration RSD	2.6 %	33.7 %	55.5 %	115.8 %	383.1 %	739.7 %	23.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0077 ppm	0.0024 ppm	0.0000 ppm	-0.0010 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0076 ppm	0.0033 ppm	-0.0001 ppm	-0.0010 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0077 ppm	0.0023 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0079 ppm	0.0017 ppm	0.0002 ppm	-0.0012 ppm	-0.0015 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	1.548 %	4.884 %	0.184 %	-10.362 %	-1.294 %	-0.046 %	0.902 %
Concentration RSD	1.7 %	34.1 %	929.5 %	18.9 %	458.4 %	3,892.9 %	392.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.4942 %	99.8676 %	101.1272 %	85.5661 %	100.4282 %	102.0519 %
Concentration per Run 1	101.9749 %	100.1247 %	101.1640 %	84.0268 %	100.1478 %	101.9015 %
Concentration per Run 2	101.4105 %	99.6526 %	100.9000 %	85.8872 %	100.3194 %	101.9681 %
Concentration per Run 3	101.0972 %	99.8256 %	101.3176 %	86.7843 %	100.8174 %	102.2861 %
Recovery Percentage 1						
Concentration RSD	0.4 %	0.2 %	0.2 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 1:49:18 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5005 ppm	0.5172 ppm	0.4973 ppm	0.4988 ppm	0.4986 ppm	0.4872 ppm	0.5147 ppm
Concentration per Run 1	0.4989 ppm	0.4816 ppm	0.4956 ppm	0.4961 ppm	0.4767 ppm	0.4662 ppm	0.4893 ppm
Concentration per Run 2	0.5006 ppm	0.5283 ppm	0.4978 ppm	0.4987 ppm	0.5076 ppm	0.4960 ppm	0.5246 ppm
Concentration per Run 3	0.5020 ppm	0.5418 ppm	0.4986 ppm	0.5017 ppm	0.5116 ppm	0.4994 ppm	0.5303 ppm
Recovery Percentage 1	100.098 %	103.446 %	99.459 %	99.767 %	99.728 %	97.441 %	102.945 %
Concentration RSD	0.3 %	6.1 %	0.3 %	0.6 %	3.8 %	3.7 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4959 ppm	0.5059 ppm	0.5016 ppm	0.4961 ppm	0.5060 ppm	5.0668 ppm	0.4928 ppm
Concentration per Run 1	0.4929 ppm	0.5032 ppm	0.5001 ppm	0.4945 ppm	0.4811 ppm	4.8129 ppm	0.4900 ppm
Concentration per Run 2	0.4966 ppm	0.5063 ppm	0.5015 ppm	0.4958 ppm	0.5140 ppm	5.1683 ppm	0.4954 ppm
Concentration per Run 3	0.4982 ppm	0.5081 ppm	0.5033 ppm	0.4981 ppm	0.5230 ppm	5.2191 ppm	0.4930 ppm
Recovery Percentage 1	99.183 %	101.170 %	100.327 %	99.225 %	101.200 %	101.335 %	98.562 %
Concentration RSD	0.6 %	0.5 %	0.3 %	0.4 %	4.4 %	4.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4910 ppm	0.4904 ppm	9.9066 ppm	0.5127 ppm	0.5121 ppm	0.5117 ppm	0.5157 ppm
Concentration per Run 1	0.4690 ppm	0.4857 ppm	9.4698 ppm	0.5092 ppm	0.5093 ppm	0.5091 ppm	0.5139 ppm
Concentration per Run 2	0.5009 ppm	0.4912 ppm	10.0941 ppm	0.5133 ppm	0.5133 ppm	0.5123 ppm	0.5158 ppm
Concentration per Run 3	0.5031 ppm	0.4944 ppm	10.1560 ppm	0.5157 ppm	0.5139 ppm	0.5136 ppm	0.5175 ppm
Recovery Percentage 1	98.198 %	98.088 %	99.066 %	102.546 %	102.429 %	102.331 %	103.147 %
Concentration RSD	3.9 %	0.9 %	3.8 %	0.6 %	0.5 %	0.5 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7594 ppm	0.4984 ppm	0.4854 ppm	0.4788 ppm	0.5035 ppm	0.5006 ppm	0.5140 ppm
Concentration per Run 1	5.7253 ppm	0.4954 ppm	0.4648 ppm	0.4783 ppm	0.5018 ppm	0.4985 ppm	0.5109 ppm
Concentration per Run 2	5.7635 ppm	0.4996 ppm	0.4939 ppm	0.4776 ppm	0.5030 ppm	0.5011 ppm	0.5149 ppm
Concentration per Run 3	5.7893 ppm	0.5003 ppm	0.4974 ppm	0.4806 ppm	0.5058 ppm	0.5021 ppm	0.5162 ppm
Recovery Percentage 1	109.703 %	99.686 %	97.076 %	95.770 %	100.707 %	100.114 %	102.798 %
Concentration RSD	0.6 %	0.5 %	3.7 %	0.3 %	0.4 %	0.4 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0798 %	98.9870 %	101.0329 %	109.6310 %	101.9654 %	106.3502 %
Concentration per Run 1	105.1603 %	99.4833 %	101.1900 %	116.9196 %	102.6625 %	107.0152 %
Concentration per Run 2	99.4902 %	98.4713 %	100.8378 %	108.5608 %	101.7280 %	106.0186 %
Concentration per Run 3	98.5889 %	99.0063 %	101.0708 %	103.4125 %	101.5058 %	106.0168 %
Recovery Percentage 1						
Concentration RSD	3.5 %	0.5 %	0.2 %	6.2 %	0.6 %	0.5 %

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 1:55:22 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0046 ppm	-0.0003 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 1	-0.0004 ppm	-0.0035 ppm	0.0003 ppm	0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0169 ppm	-0.0011 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0011 ppm	-0.0003 ppm	0.0000 ppm	0.0074 ppm
Recovery Percentage 1	-4.824 %	4.560 %	-5.500 %	2.631 %	-0.344 %	1.792 %	4.439 %
Concentration RSD	93.0 %	237.4 %	272.3 %	39.7 %	1,043.7 %	66.0 %	58.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0055 ppm	-0.0121 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0054 ppm	-0.0020 ppm	-0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	0.0056 ppm	-0.0419 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0054 ppm	0.0076 ppm	-0.0003 ppm
Recovery Percentage 1	1.690 %	-0.210 %	-3.561 %	1.691 %	11.000 %	-0.484 %	-0.823 %
Concentration RSD	33.6 %	110.7 %	97.0 %	213.6 %	2.0 %	217.2 %	68.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0010 ppm	0.0079 ppm	0.0002 ppm	-0.0009 ppm	0.0012 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0012 ppm	-0.0021 ppm	0.0004 ppm	-0.0010 ppm	0.0014 ppm	0.0016 ppm
Concentration per Run 2	-0.0002 ppm	0.0012 ppm	0.0121 ppm	-0.0001 ppm	-0.0010 ppm	0.0007 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0137 ppm	0.0003 ppm	-0.0007 ppm	0.0017 ppm	0.0012 ppm
Recovery Percentage 1	0.551 %	1.972 %	0.394 %	0.760 %	-8.816 %	2.496 %	14.477 %
Concentration RSD	363.4 %	34.3 %	110.7 %	147.3 %	21.8 %	39.0 %	14.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 2	0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 3	0.0014 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0005 ppm	0.0004 ppm	-0.0008 ppm
Recovery Percentage 1	0.172 %	0.291 %	0.069 %	5.020 %	-1.999 %	2.652 %	-16.078 %
Concentration RSD	77.3 %	150.0 %	1,540.2 %	34.8 %	63.9 %	71.5 %	7.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	95.3068 %	97.9400 %	100.8259 %	80.6613 %	98.0536 %	98.7390 %
Concentration per Run 1	101.4653 %	98.8016 %	100.7976 %	84.6177 %	97.6260 %	98.8760 %
Concentration per Run 2	90.8276 %	97.2214 %	100.9111 %	76.8322 %	98.0435 %	98.3471 %
Concentration per Run 3	93.6276 %	97.7971 %	100.7689 %	80.5339 %	98.4912 %	98.9938 %
Recovery Percentage 1						
Concentration RSD	5.8 %	0.8 %	0.1 %	4.8 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-1 WG1935616
Analysis started at: 6/18/2024 2:07:10 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0214 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0153 ppm
Concentration per Run 1	-0.0006 ppm	0.0300 ppm	-0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0150 ppm
Concentration per Run 2	-0.0009 ppm	0.0196 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0142 ppm
Concentration per Run 3	-0.0010 ppm	0.0147 ppm	0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0168 ppm
Recovery Percentage 1	-12.031 %	21.436 %	-4.999 %	0.324 %	1.080 %	0.910 %	15.332 %
Concentration RSD	23.7 %	36.4 %	255.6 %	234.2 %	163.3 %	126.7 %	8.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0360 ppm	-0.0587 ppm	0.0043 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0344 ppm	-0.0458 ppm	0.0039 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0375 ppm	-0.0752 ppm	0.0042 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0361 ppm	-0.0551 ppm	0.0049 ppm
Recovery Percentage 1	1.200 %	-0.751 %	1.304 %	2.602 %	71.980 %	-2.348 %	4.325 %
Concentration RSD	86.2 %	80.5 %	271.1 %	53.0 %	4.4 %	25.6 %	11.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0000 ppm	0.0152 ppm	0.0005 ppm	-0.0004 ppm	0.0012 ppm	0.0018 ppm
Concentration per Run 1	0.0013 ppm	0.0000 ppm	0.0078 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm	0.0019 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0134 ppm	0.0005 ppm	-0.0005 ppm	0.0013 ppm	0.0030 ppm
Concentration per Run 3	0.0011 ppm	-0.0001 ppm	0.0245 ppm	0.0008 ppm	-0.0007 ppm	0.0010 ppm	0.0004 ppm
Recovery Percentage 1	11.485 %	-0.059 %	0.762 %	2.089 %	-3.874 %	2.448 %	18.048 %
Concentration RSD	9.6 %	353.0 %	55.6 %	45.7 %	95.8 %	13.9 %	72.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0100 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0019 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0102 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm	-0.0012 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0099 ppm	-0.0001 ppm	-0.0001 ppm	0.0005 ppm	-0.0025 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0100 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0021 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	2.002 %	0.205 %	0.225 %	6.782 %	-9.641 %	-0.825 %	-3.320 %
Concentration RSD	1.7 %	209.2 %	1,017.2 %	43.8 %	36.0 %	212.9 %	29.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.6258 %	102.3794 %	101.5273 %	105.4478 %	100.6901 %	108.0129 %
Concentration per Run 1	101.8259 %	100.2914 %	101.6583 %	110.0472 %	101.2480 %	107.0873 %
Concentration per Run 2	100.1846 %	99.7471 %	101.5879 %	104.5613 %	100.5373 %	105.8972 %
Concentration per Run 3	99.8669 %	107.0997 %	101.3358 %	101.7350 %	100.2851 %	111.0542 %
Recovery Percentage 1						
Concentration RSD	1.0 %	4.0 %	0.2 %	4.0 %	0.5 %	2.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-2D2 WG1935616
Analysis started at: 6/18/2024 2:13:31 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3289 ppm	17.5531 ppm	1.2315 ppm	0.9418 ppm	1.0731 ppm	0.5886 ppm	18.4695 ppm
Concentration per Run 1	0.3286 ppm	17.3948 ppm	1.2295 ppm	0.9387 ppm	1.0626 ppm	0.5821 ppm	18.2860 ppm
Concentration per Run 2	0.3289 ppm	17.5570 ppm	1.2321 ppm	0.9415 ppm	1.0733 ppm	0.5878 ppm	18.4549 ppm
Concentration per Run 3	0.3292 ppm	17.7076 ppm	1.2328 ppm	0.9453 ppm	1.0834 ppm	0.5958 ppm	18.6675 ppm
Concentration RSD	0.1 %	0.9 %	0.1 %	0.4 %	1.0 %	1.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.8271 ppm	0.3242 ppm	0.7295 ppm	0.8292 ppm	20.3814 ppm	3.9862 ppm	5.5995 ppm
Concentration per Run 1	0.8254 ppm	0.3234 ppm	0.7286 ppm	0.8304 ppm	20.1324 ppm	3.9458 ppm	5.5906 ppm
Concentration per Run 2	0.8268 ppm	0.3243 ppm	0.7306 ppm	0.8285 ppm	20.3670 ppm	3.9789 ppm	5.6005 ppm
Concentration per Run 3	0.8291 ppm	0.3248 ppm	0.7292 ppm	0.8286 ppm	20.6447 ppm	4.0340 ppm	5.6073 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.1 %	1.3 %	1.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.9005 ppm	0.5442 ppm	6.3339 ppm	1.2514 ppm	0.3690 ppm	0.7834 ppm	0.6814 ppm
Concentration per Run 1	1.8772 ppm	0.5412 ppm	6.2675 ppm	1.2490 ppm	0.3684 ppm	0.7816 ppm	0.6832 ppm
Concentration per Run 2	1.8991 ppm	0.5434 ppm	6.3365 ppm	1.2517 ppm	0.3688 ppm	0.7827 ppm	0.6804 ppm
Concentration per Run 3	1.9253 ppm	0.5479 ppm	6.3975 ppm	1.2536 ppm	0.3699 ppm	0.7860 ppm	0.6805 ppm
Concentration RSD	1.3 %	0.6 %	1.0 %	0.2 %	0.2 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.4448 ppm	0.3023 ppm	0.4619 ppm	1.1565 ppm	0.8275 ppm	0.4130 ppm	0.6664 ppm
Concentration per Run 1	9.4099 ppm	0.3015 ppm	0.4571 ppm	1.1557 ppm	0.8270 ppm	0.4129 ppm	0.6653 ppm
Concentration per Run 2	9.4110 ppm	0.3020 ppm	0.4619 ppm	1.1534 ppm	0.8272 ppm	0.4132 ppm	0.6657 ppm
Concentration per Run 3	9.5134 ppm	0.3035 ppm	0.4667 ppm	1.1605 ppm	0.8282 ppm	0.4129 ppm	0.6682 ppm
Concentration RSD	0.6 %	0.3 %	1.0 %	0.3 %	0.1 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.6293 %	105.8150 %	107.4207 %	92.9300 %	101.3601 %	106.0958 %
Concentration per Run 1	110.8937 %	106.3898 %	107.5267 %	92.1326 %	101.5882 %	106.6102 %
Concentration per Run 2	109.8032 %	105.3508 %	107.4875 %	93.2391 %	101.4048 %	105.7519 %
Concentration per Run 3	108.1910 %	105.7046 %	107.2481 %	93.4184 %	101.0874 %	105.9252 %
Concentration RSD	1.2 %	0.5 %	0.1 %	0.7 %	0.2 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-3D2 WG1935616
Analysis started at: 6/18/2024 2:19:34 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3203 ppm	17.1460 ppm	1.1863 ppm	0.9128 ppm	1.0310 ppm	0.5721 ppm	17.8632 ppm
Concentration per Run 1	0.3207 ppm	16.7074 ppm	1.1898 ppm	0.9138 ppm	1.0047 ppm	0.5581 ppm	17.3823 ppm
Concentration per Run 2	0.3205 ppm	17.2860 ppm	1.1857 ppm	0.9115 ppm	1.0406 ppm	0.5779 ppm	18.0493 ppm
Concentration per Run 3	0.3197 ppm	17.4447 ppm	1.1835 ppm	0.9129 ppm	1.0477 ppm	0.5803 ppm	18.1580 ppm
Concentration RSD	0.2 %	2.3 %	0.3 %	0.1 %	2.2 %	2.1 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.8033 ppm	0.3143 ppm	0.7215 ppm	0.8054 ppm	20.6412 ppm	3.8908 ppm	5.5128 ppm
Concentration per Run 1	0.8047 ppm	0.3150 ppm	0.7241 ppm	0.8076 ppm	20.1125 ppm	3.8180 ppm	5.5217 ppm
Concentration per Run 2	0.8025 ppm	0.3141 ppm	0.7207 ppm	0.8048 ppm	20.8412 ppm	3.9265 ppm	5.5207 ppm
Concentration per Run 3	0.8026 ppm	0.3139 ppm	0.7197 ppm	0.8037 ppm	20.9700 ppm	3.9278 ppm	5.4959 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.2 %	2.2 %	1.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.8771 ppm	0.5278 ppm	6.3271 ppm	1.2058 ppm	0.3597 ppm	0.7892 ppm	0.6593 ppm
Concentration per Run 1	1.8297 ppm	0.5267 ppm	6.1718 ppm	1.2089 ppm	0.3605 ppm	0.7906 ppm	0.6608 ppm
Concentration per Run 2	1.8947 ppm	0.5277 ppm	6.3833 ppm	1.2040 ppm	0.3589 ppm	0.7873 ppm	0.6617 ppm
Concentration per Run 3	1.9070 ppm	0.5291 ppm	6.4263 ppm	1.2044 ppm	0.3597 ppm	0.7897 ppm	0.6556 ppm
Concentration RSD	2.2 %	0.2 %	2.2 %	0.2 %	0.2 %	0.2 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.7659 ppm	0.2916 ppm	0.4538 ppm	1.1395 ppm	0.7944 ppm	0.3997 ppm	0.6463 ppm
Concentration per Run 1	7.7637 ppm	0.2925 ppm	0.4428 ppm	1.1368 ppm	0.7929 ppm	0.3998 ppm	0.6474 ppm
Concentration per Run 2	7.7771 ppm	0.2907 ppm	0.4575 ppm	1.1371 ppm	0.7957 ppm	0.4005 ppm	0.6457 ppm
Concentration per Run 3	7.7570 ppm	0.2916 ppm	0.4611 ppm	1.1445 ppm	0.7945 ppm	0.3986 ppm	0.6460 ppm
Concentration RSD	0.1 %	0.3 %	2.1 %	0.4 %	0.2 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.4480 %	104.5200 %	106.0600 %	92.3805 %	100.3684 %	104.7073 %
Concentration per Run 1	111.4367 %	104.3588 %	106.1647 %	92.8143 %	100.2095 %	104.5734 %
Concentration per Run 2	107.6409 %	104.6230 %	106.0671 %	92.2814 %	100.3436 %	104.7147 %
Concentration per Run 3	106.2664 %	104.5783 %	105.9482 %	92.0457 %	100.5520 %	104.8338 %
Concentration RSD	2.5 %	0.1 %	0.1 %	0.4 %	0.2 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2432997-03D2 WG1935616
Analysis started at: 6/18/2024 2:25:38 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	22.5729 ppm	0.0245 ppm	0.0311 ppm	0.4882 ppm	0.0008 ppm	48.1033 ppm
Concentration per Run 1	-0.0002 ppm	21.6326 ppm	0.0233 ppm	0.0312 ppm	0.4671 ppm	0.0007 ppm	46.0327 ppm
Concentration per Run 2	0.0001 ppm	22.9798 ppm	0.0244 ppm	0.0309 ppm	0.4972 ppm	0.0007 ppm	49.0082 ppm
Concentration per Run 3	-0.0002 ppm	23.1065 ppm	0.0257 ppm	0.0312 ppm	0.5002 ppm	0.0008 ppm	49.2689 ppm
Concentration RSD	192.7 %	3.6 %	4.8 %	0.4 %	3.7 %	6.8 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0054 ppm	0.0320 ppm	0.0413 ppm	0.5448 ppm	51.1829 ppm	2.9876 ppm	10.0040 ppm
Concentration per Run 1	0.0054 ppm	0.0322 ppm	0.0412 ppm	0.5437 ppm	48.9056 ppm	2.8617 ppm	9.9901 ppm
Concentration per Run 2	0.0053 ppm	0.0320 ppm	0.0415 ppm	0.5450 ppm	52.1350 ppm	3.0278 ppm	9.9993 ppm
Concentration per Run 3	0.0054 ppm	0.0317 ppm	0.0412 ppm	0.5458 ppm	52.5081 ppm	3.0733 ppm	10.0227 ppm
Concentration RSD	0.4 %	0.7 %	0.4 %	0.2 %	3.9 %	3.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5279 ppm	0.0091 ppm	0.8290 ppm	0.0441 ppm	0.1245 ppm	0.0042 ppm	0.0049 ppm
Concentration per Run 1	2.4187 ppm	0.0096 ppm	0.7919 ppm	0.0445 ppm	0.1246 ppm	0.0053 ppm	0.0042 ppm
Concentration per Run 2	2.5762 ppm	0.0091 ppm	0.8426 ppm	0.0439 ppm	0.1247 ppm	0.0039 ppm	0.0066 ppm
Concentration per Run 3	2.5889 ppm	0.0086 ppm	0.8526 ppm	0.0441 ppm	0.1242 ppm	0.0034 ppm	0.0039 ppm
Concentration RSD	3.8 %	5.4 %	3.9 %	0.7 %	0.2 %	23.3 %	29.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9777 ppm	0.0055 ppm	0.2438 ppm	1.7582 ppm	-0.0011 ppm	0.1547 ppm	0.5786 ppm
Concentration per Run 1	3.9955 ppm	0.0058 ppm	0.2334 ppm	1.7548 ppm	-0.0021 ppm	0.1548 ppm	0.5794 ppm
Concentration per Run 2	3.9638 ppm	0.0050 ppm	0.2478 ppm	1.7561 ppm	-0.0012 ppm	0.1545 ppm	0.5770 ppm
Concentration per Run 3	3.9740 ppm	0.0057 ppm	0.2502 ppm	1.7636 ppm	-0.0001 ppm	0.1547 ppm	0.5795 ppm
Concentration RSD	0.4 %	7.3 %	3.7 %	0.3 %	85.2 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.9711 %	106.7044 %	107.9981 %	97.1386 %	99.3446 %	105.3066 %
Concentration per Run 1	117.5021 %	106.8173 %	107.7421 %	99.4462 %	99.0948 %	105.5087 %
Concentration per Run 2	111.3705 %	106.6848 %	108.1002 %	96.6697 %	99.5824 %	105.4106 %
Concentration per Run 3	110.0407 %	106.6112 %	108.1519 %	95.2998 %	99.3565 %	105.0007 %
Concentration RSD	3.5 %	0.1 %	0.2 %	2.2 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-4D2 WG1935616
Analysis started at: 6/18/2024 2:31:50 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	26.5112 ppm	0.1439 ppm	0.9647 ppm	2.2527 ppm	0.0452 ppm	49.8203 ppm
Concentration per Run 1	0.0497 ppm	25.5051 ppm	0.1444 ppm	0.9650 ppm	2.1681 ppm	0.0433 ppm	47.9784 ppm
Concentration per Run 2	0.0499 ppm	26.9343 ppm	0.1434 ppm	0.9640 ppm	2.2877 ppm	0.0460 ppm	50.5642 ppm
Concentration per Run 3	0.0506 ppm	27.0942 ppm	0.1439 ppm	0.9650 ppm	2.3023 ppm	0.0464 ppm	50.9182 ppm
Concentration RSD	0.9 %	3.3 %	0.4 %	0.1 %	3.3 %	3.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0560 ppm	0.5183 ppm	0.2434 ppm	0.7650 ppm	47.6702 ppm	11.9817 ppm	18.6427 ppm
Concentration per Run 1	0.0561 ppm	0.5187 ppm	0.2440 ppm	0.7648 ppm	45.8727 ppm	11.5210 ppm	18.6465 ppm
Concentration per Run 2	0.0560 ppm	0.5181 ppm	0.2432 ppm	0.7656 ppm	48.4505 ppm	12.2110 ppm	18.6009 ppm
Concentration per Run 3	0.0561 ppm	0.5180 ppm	0.2431 ppm	0.7645 ppm	48.6874 ppm	12.2130 ppm	18.6805 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	3.3 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.4470 ppm	0.9360 ppm	9.5650 ppm	0.5251 ppm	0.6427 ppm	0.4569 ppm	0.1276 ppm
Concentration per Run 1	2.3545 ppm	0.9356 ppm	9.1999 ppm	0.5249 ppm	0.6435 ppm	0.4579 ppm	0.1255 ppm
Concentration per Run 2	2.4872 ppm	0.9360 ppm	9.7225 ppm	0.5257 ppm	0.6424 ppm	0.4579 ppm	0.1274 ppm
Concentration per Run 3	2.4991 ppm	0.9364 ppm	9.7727 ppm	0.5248 ppm	0.6423 ppm	0.4551 ppm	0.1300 ppm
Concentration RSD	3.3 %	0.0 %	3.3 %	0.1 %	0.1 %	0.4 %	1.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3896 ppm	0.9418 ppm	1.0556 ppm	2.5866 ppm	0.1131 ppm	0.6159 ppm	1.0124 ppm
Concentration per Run 1	5.3963 ppm	0.9392 ppm	1.0165 ppm	2.5882 ppm	0.1142 ppm	0.6154 ppm	1.0130 ppm
Concentration per Run 2	5.3982 ppm	0.9430 ppm	1.0717 ppm	2.5806 ppm	0.1127 ppm	0.6155 ppm	1.0126 ppm
Concentration per Run 3	5.3742 ppm	0.9433 ppm	1.0784 ppm	2.5910 ppm	0.1125 ppm	0.6166 ppm	1.0116 ppm
Concentration RSD	0.2 %	0.2 %	3.2 %	0.2 %	0.8 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.5079 %	104.5746 %	105.1540 %	96.3377 %	98.6090 %	104.8475 %
Concentration per Run 1	114.2912 %	104.5201 %	105.1567 %	98.5030 %	98.6417 %	104.7553 %
Concentration per Run 2	108.2785 %	105.0150 %	105.2146 %	94.9541 %	98.5530 %	105.5034 %
Concentration per Run 3	108.9539 %	104.1888 %	105.0906 %	95.5559 %	98.6322 %	104.2838 %
Concentration RSD	3.0 %	0.4 %	0.1 %	2.0 %	0.0 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-4D2 WG1935616
Analysis started at: 6/18/2024 2:37:52 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0503 ppm	26.5882 ppm	0.1475 ppm	0.9824 ppm	2.2566 ppm	0.0451 ppm	49.9216 ppm
Concentration per Run 1	0.0504 ppm	25.1972 ppm	0.1466 ppm	0.9835 ppm	2.1410 ppm	0.0429 ppm	47.3011 ppm
Concentration per Run 2	0.0504 ppm	27.1767 ppm	0.1478 ppm	0.9811 ppm	2.3068 ppm	0.0461 ppm	51.0605 ppm
Concentration per Run 3	0.0501 ppm	27.3906 ppm	0.1480 ppm	0.9828 ppm	2.3220 ppm	0.0464 ppm	51.4030 ppm
Concentration RSD	0.3 %	4.5 %	0.5 %	0.1 %	4.4 %	4.3 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0570 ppm	0.5271 ppm	0.2478 ppm	0.7762 ppm	47.5642 ppm	11.9836 ppm	18.7840 ppm
Concentration per Run 1	0.0570 ppm	0.5270 ppm	0.2480 ppm	0.7764 ppm	45.1450 ppm	11.3936 ppm	18.7696 ppm
Concentration per Run 2	0.0570 ppm	0.5273 ppm	0.2473 ppm	0.7758 ppm	48.5954 ppm	12.2409 ppm	18.7716 ppm
Concentration per Run 3	0.0570 ppm	0.5270 ppm	0.2480 ppm	0.7764 ppm	48.9522 ppm	12.3163 ppm	18.8107 ppm
Concentration RSD	0.0 %	0.0 %	0.2 %	0.0 %	4.4 %	4.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.4425 ppm	0.9500 ppm	9.5648 ppm	0.5330 ppm	0.6517 ppm	0.4646 ppm	0.1297 ppm
Concentration per Run 1	2.3188 ppm	0.9494 ppm	9.0963 ppm	0.5333 ppm	0.6521 ppm	0.4634 ppm	0.1299 ppm
Concentration per Run 2	2.4953 ppm	0.9503 ppm	9.7579 ppm	0.5330 ppm	0.6503 ppm	0.4675 ppm	0.1285 ppm
Concentration per Run 3	2.5135 ppm	0.9504 ppm	9.8401 ppm	0.5327 ppm	0.6526 ppm	0.4628 ppm	0.1305 ppm
Concentration RSD	4.4 %	0.1 %	4.3 %	0.1 %	0.2 %	0.5 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5469 ppm	0.9592 ppm	1.0566 ppm	2.6100 ppm	0.1157 ppm	0.6240 ppm	1.0312 ppm
Concentration per Run 1	5.5577 ppm	0.9612 ppm	1.0022 ppm	2.6109 ppm	0.1167 ppm	0.6230 ppm	1.0311 ppm
Concentration per Run 2	5.5544 ppm	0.9590 ppm	1.0794 ppm	2.6045 ppm	0.1143 ppm	0.6242 ppm	1.0313 ppm
Concentration per Run 3	5.5285 ppm	0.9575 ppm	1.0882 ppm	2.6146 ppm	0.1161 ppm	0.6249 ppm	1.0311 ppm
Concentration RSD	0.3 %	0.2 %	4.5 %	0.2 %	1.1 %	0.2 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	112.4858 %	103.8697 %	104.5808 %	99.4334 %	98.1668 %	105.1077 %
Concentration per Run 1	117.8242 %	103.8224 %	104.5870 %	102.6049 %	98.2535 %	105.1624 %
Concentration per Run 2	110.2568 %	103.8747 %	104.6259 %	98.6287 %	98.2112 %	105.1088 %
Concentration per Run 3	109.3762 %	103.9121 %	104.5294 %	97.0667 %	98.0356 %	105.0520 %
Concentration RSD	4.1 %	0.0 %	0.0 %	2.9 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-5D2 WG1935616
Analysis started at: 6/18/2024 2:43:55 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0506 ppm	29.8235 ppm	0.1478 ppm	0.9811 ppm	2.3446 ppm	0.0460 ppm	54.8701 ppm
Concentration per Run 1	0.0502 ppm	30.1062 ppm	0.1486 ppm	0.9790 ppm	2.3667 ppm	0.0465 ppm	55.4018 ppm
Concentration per Run 2	0.0504 ppm	29.5279 ppm	0.1469 ppm	0.9793 ppm	2.3221 ppm	0.0457 ppm	54.4192 ppm
Concentration per Run 3	0.0511 ppm	29.8366 ppm	0.1479 ppm	0.9848 ppm	2.3450 ppm	0.0460 ppm	54.7892 ppm
Concentration RSD	1.0 %	1.0 %	0.6 %	0.3 %	1.0 %	0.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0572 ppm	0.5250 ppm	0.2476 ppm	0.7973 ppm	53.1403 ppm	12.6816 ppm	19.6495 ppm
Concentration per Run 1	0.0572 ppm	0.5239 ppm	0.2482 ppm	0.7980 ppm	53.6939 ppm	12.8316 ppm	19.6794 ppm
Concentration per Run 2	0.0571 ppm	0.5245 ppm	0.2463 ppm	0.7947 ppm	52.6261 ppm	12.5601 ppm	19.5996 ppm
Concentration per Run 3	0.0574 ppm	0.5266 ppm	0.2483 ppm	0.7992 ppm	53.1010 ppm	12.6531 ppm	19.6696 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	1.0 %	1.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7915 ppm	0.9490 ppm	9.6956 ppm	0.5379 ppm	0.6846 ppm	0.4664 ppm	0.1304 ppm
Concentration per Run 1	2.8196 ppm	0.9469 ppm	9.7898 ppm	0.5368 ppm	0.6830 ppm	0.4642 ppm	0.1283 ppm
Concentration per Run 2	2.7631 ppm	0.9476 ppm	9.6057 ppm	0.5372 ppm	0.6845 ppm	0.4675 ppm	0.1342 ppm
Concentration per Run 3	2.7919 ppm	0.9525 ppm	9.6913 ppm	0.5396 ppm	0.6863 ppm	0.4673 ppm	0.1287 ppm
Concentration RSD	1.0 %	0.3 %	0.9 %	0.3 %	0.2 %	0.4 %	2.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4234 ppm	0.9502 ppm	1.0982 ppm	2.5534 ppm	0.1150 ppm	0.6280 ppm	1.0771 ppm
Concentration per Run 1	5.4261 ppm	0.9474 ppm	1.1085 ppm	2.5565 ppm	0.1152 ppm	0.6293 ppm	1.0746 ppm
Concentration per Run 2	5.4001 ppm	0.9509 ppm	1.0883 ppm	2.5465 ppm	0.1145 ppm	0.6256 ppm	1.0762 ppm
Concentration per Run 3	5.4442 ppm	0.9523 ppm	1.0979 ppm	2.5572 ppm	0.1154 ppm	0.6291 ppm	1.0806 ppm
Concentration RSD	0.4 %	0.3 %	0.9 %	0.2 %	0.4 %	0.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.8760 %	106.0726 %	106.6733 %	94.9800 %	98.7116 %	105.4856 %
Concentration per Run 1	108.8712 %	106.2855 %	106.8748 %	92.8084 %	98.9766 %	105.4078 %
Concentration per Run 2	110.8668 %	106.2668 %	106.6072 %	96.1178 %	98.8346 %	105.7100 %
Concentration per Run 3	109.8900 %	105.6654 %	106.5377 %	96.0137 %	98.3238 %	105.3389 %
Concentration RSD	0.9 %	0.3 %	0.2 %	2.0 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-5D2 WG1935616
Analysis started at: 6/18/2024 2:49:59 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0504 ppm	30.3594 ppm	0.1498 ppm	0.9833 ppm	2.3834 ppm	0.0467 ppm	55.8058 ppm
Concentration per Run 1	0.0500 ppm	30.7238 ppm	0.1486 ppm	0.9834 ppm	2.4141 ppm	0.0473 ppm	56.4928 ppm
Concentration per Run 2	0.0505 ppm	30.2179 ppm	0.1503 ppm	0.9852 ppm	2.3692 ppm	0.0464 ppm	55.5410 ppm
Concentration per Run 3	0.0509 ppm	30.1366 ppm	0.1505 ppm	0.9814 ppm	2.3669 ppm	0.0464 ppm	55.3835 ppm
Concentration RSD	0.9 %	1.0 %	0.7 %	0.2 %	1.1 %	1.1 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0573 ppm	0.5261 ppm	0.2498 ppm	0.8046 ppm	53.8660 ppm	12.9210 ppm	19.7571 ppm
Concentration per Run 1	0.0573 ppm	0.5262 ppm	0.2509 ppm	0.8041 ppm	54.5300 ppm	13.1256 ppm	19.7696 ppm
Concentration per Run 2	0.0573 ppm	0.5265 ppm	0.2490 ppm	0.8053 ppm	53.5319 ppm	12.8154 ppm	19.7397 ppm
Concentration per Run 3	0.0572 ppm	0.5256 ppm	0.2496 ppm	0.8045 ppm	53.5361 ppm	12.8221 ppm	19.7620 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.1 %	1.1 %	1.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.8328 ppm	0.9494 ppm	9.8490 ppm	0.5384 ppm	0.6839 ppm	0.4676 ppm	0.1304 ppm
Concentration per Run 1	2.8657 ppm	0.9496 ppm	9.9753 ppm	0.5390 ppm	0.6847 ppm	0.4660 ppm	0.1291 ppm
Concentration per Run 2	2.8186 ppm	0.9499 ppm	9.7901 ppm	0.5389 ppm	0.6850 ppm	0.4691 ppm	0.1309 ppm
Concentration per Run 3	2.8141 ppm	0.9487 ppm	9.7816 ppm	0.5372 ppm	0.6820 ppm	0.4677 ppm	0.1310 ppm
Concentration RSD	1.0 %	0.1 %	1.1 %	0.2 %	0.2 %	0.3 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5654 ppm	0.9536 ppm	1.1146 ppm	2.5685 ppm	0.1136 ppm	0.6338 ppm	1.0820 ppm
Concentration per Run 1	5.5931 ppm	0.9516 ppm	1.1288 ppm	2.5663 ppm	0.1144 ppm	0.6337 ppm	1.0830 ppm
Concentration per Run 2	5.5616 ppm	0.9555 ppm	1.1079 ppm	2.5689 ppm	0.1129 ppm	0.6340 ppm	1.0832 ppm
Concentration per Run 3	5.5414 ppm	0.9536 ppm	1.1072 ppm	2.5703 ppm	0.1134 ppm	0.6337 ppm	1.0798 ppm
Concentration RSD	0.5 %	0.2 %	1.1 %	0.1 %	0.7 %	0.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.4133 %	105.4146 %	106.6963 %	93.9550 %	98.4919 %	104.9448 %
Concentration per Run 1	106.8075 %	105.5587 %	106.8455 %	92.1496 %	98.3725 %	104.9121 %
Concentration per Run 2	109.0490 %	105.4217 %	106.4295 %	94.7586 %	98.3993 %	105.0076 %
Concentration per Run 3	109.3835 %	105.2635 %	106.8137 %	94.9567 %	98.7039 %	104.9148 %
Concentration RSD	1.3 %	0.1 %	0.2 %	1.7 %	0.2 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-7D2 WG1935616
Analysis started at: 6/18/2024 2:56:02 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0475 ppm	24.0599 ppm	0.1421 ppm	0.9807 ppm	2.2087 ppm	0.0428 ppm	56.4997 ppm
Concentration per Run 1	0.0474 ppm	23.7800 ppm	0.1431 ppm	0.9792 ppm	2.1794 ppm	0.0422 ppm	55.7281 ppm
Concentration per Run 2	0.0482 ppm	24.1833 ppm	0.1410 ppm	0.9796 ppm	2.2201 ppm	0.0429 ppm	56.7850 ppm
Concentration per Run 3	0.0470 ppm	24.2165 ppm	0.1423 ppm	0.9834 ppm	2.2266 ppm	0.0432 ppm	56.9859 ppm
Concentration RSD	1.3 %	1.0 %	0.7 %	0.2 %	1.2 %	1.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0553 ppm	0.4944 ppm	0.2269 ppm	0.7764 ppm	51.2556 ppm	11.7778 ppm	18.6648 ppm
Concentration per Run 1	0.0554 ppm	0.4945 ppm	0.2273 ppm	0.7767 ppm	50.5181 ppm	11.6384 ppm	18.6641 ppm
Concentration per Run 2	0.0552 ppm	0.4937 ppm	0.2269 ppm	0.7760 ppm	51.5144 ppm	11.8222 ppm	18.6300 ppm
Concentration per Run 3	0.0552 ppm	0.4949 ppm	0.2266 ppm	0.7767 ppm	51.7342 ppm	11.8730 ppm	18.7003 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.1 %	1.3 %	1.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.8931 ppm	0.9684 ppm	9.6260 ppm	0.5134 ppm	0.6329 ppm	0.4875 ppm	0.1258 ppm
Concentration per Run 1	2.8532 ppm	0.9663 ppm	9.5009 ppm	0.5135 ppm	0.6340 ppm	0.4879 ppm	0.1249 ppm
Concentration per Run 2	2.9073 ppm	0.9669 ppm	9.6832 ppm	0.5127 ppm	0.6304 ppm	0.4872 ppm	0.1231 ppm
Concentration per Run 3	2.9188 ppm	0.9720 ppm	9.6939 ppm	0.5140 ppm	0.6343 ppm	0.4874 ppm	0.1294 ppm
Concentration RSD	1.2 %	0.3 %	1.1 %	0.1 %	0.3 %	0.1 %	2.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9367 ppm	0.9373 ppm	1.0772 ppm	2.6327 ppm	0.1127 ppm	0.6202 ppm	1.0329 ppm
Concentration per Run 1	4.9360 ppm	0.9357 ppm	1.0631 ppm	2.6364 ppm	0.1118 ppm	0.6199 ppm	1.0338 ppm
Concentration per Run 2	4.9470 ppm	0.9376 ppm	1.0823 ppm	2.6270 ppm	0.1131 ppm	0.6194 ppm	1.0300 ppm
Concentration per Run 3	4.9272 ppm	0.9387 ppm	1.0863 ppm	2.6345 ppm	0.1131 ppm	0.6212 ppm	1.0350 ppm
Concentration RSD	0.2 %	0.2 %	1.1 %	0.2 %	0.7 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.6359 %	106.7689 %	107.9200 %	93.5299 %	99.1452 %	105.1813 %
Concentration per Run 1	111.8979 %	106.6003 %	107.8880 %	93.2165 %	99.1933 %	104.9800 %
Concentration per Run 2	110.5105 %	107.1502 %	107.9742 %	93.7711 %	99.3825 %	105.5835 %
Concentration per Run 3	109.4993 %	106.5561 %	107.8978 %	93.6020 %	98.8597 %	104.9804 %
Concentration RSD	1.1 %	0.3 %	0.0 %	0.3 %	0.3 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935616-6D10 WG1935616
Analysis started at: 6/18/2024 3:02:06 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	5.0357 ppm	0.0045 ppm	0.0077 ppm	0.1072 ppm	0.0002 ppm	10.6279 ppm
Concentration per Run 1	-0.0010 ppm	5.1252 ppm	0.0036 ppm	0.0082 ppm	0.1093 ppm	0.0001 ppm	10.8317 ppm
Concentration per Run 2	-0.0007 ppm	5.0219 ppm	0.0048 ppm	0.0074 ppm	0.1066 ppm	0.0002 ppm	10.5867 ppm
Concentration per Run 3	-0.0008 ppm	4.9600 ppm	0.0050 ppm	0.0075 ppm	0.1057 ppm	0.0002 ppm	10.4653 ppm
Concentration RSD	21.5 %	1.7 %	16.6 %	5.8 %	1.7 %	52.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0064 ppm	0.0083 ppm	0.1103 ppm	11.2538 ppm	0.5833 ppm	2.0707 ppm
Concentration per Run 1	0.0011 ppm	0.0062 ppm	0.0081 ppm	0.1103 ppm	11.4737 ppm	0.5827 ppm	2.0717 ppm
Concentration per Run 2	0.0011 ppm	0.0066 ppm	0.0087 ppm	0.1105 ppm	11.2060 ppm	0.5602 ppm	2.0713 ppm
Concentration per Run 3	0.0011 ppm	0.0065 ppm	0.0080 ppm	0.1101 ppm	11.0817 ppm	0.6071 ppm	2.0691 ppm
Concentration RSD	2.3 %	2.7 %	4.4 %	0.2 %	1.8 %	4.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5598 ppm	0.0030 ppm	0.1755 ppm	0.0093 ppm	0.0251 ppm	0.0019 ppm	0.0011 ppm
Concentration per Run 1	0.5712 ppm	0.0031 ppm	0.1683 ppm	0.0094 ppm	0.0251 ppm	0.0029 ppm	0.0001 ppm
Concentration per Run 2	0.5579 ppm	0.0030 ppm	0.1874 ppm	0.0093 ppm	0.0256 ppm	0.0030 ppm	0.0004 ppm
Concentration per Run 3	0.5503 ppm	0.0028 ppm	0.1707 ppm	0.0093 ppm	0.0245 ppm	0.0000 ppm	0.0027 ppm
Concentration RSD	1.9 %	6.0 %	5.9 %	0.8 %	2.3 %	88.8 %	136.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7854 ppm	0.0012 ppm	0.0542 ppm	0.3529 ppm	-0.0007 ppm	0.0314 ppm	0.1163 ppm
Concentration per Run 1	0.7771 ppm	0.0010 ppm	0.0552 ppm	0.3523 ppm	-0.0011 ppm	0.0312 ppm	0.1146 ppm
Concentration per Run 2	0.7964 ppm	0.0015 ppm	0.0541 ppm	0.3527 ppm	-0.0004 ppm	0.0316 ppm	0.1181 ppm
Concentration per Run 3	0.7829 ppm	0.0010 ppm	0.0532 ppm	0.3536 ppm	-0.0006 ppm	0.0314 ppm	0.1161 ppm
Concentration RSD	1.3 %	24.4 %	1.8 %	0.2 %	47.1 %	0.7 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.1021 %	103.0972 %	104.5038 %	91.0822 %	101.8123 %	105.7034 %
Concentration per Run 1	102.3653 %	103.3421 %	105.4520 %	90.0175 %	103.1123 %	105.9874 %
Concentration per Run 2	104.4396 %	102.8367 %	103.4198 %	91.0877 %	100.4063 %	105.4766 %
Concentration per Run 3	105.5015 %	103.1126 %	104.6396 %	92.1415 %	101.9182 %	105.6460 %
Concentration RSD	1.5 %	0.2 %	1.0 %	1.2 %	1.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 3:08:17 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5094 ppm	0.5266 ppm	0.5012 ppm	0.5038 ppm	0.5096 ppm	0.4983 ppm	0.5203 ppm
Concentration per Run 1	0.5102 ppm	0.5273 ppm	0.5021 ppm	0.5046 ppm	0.5181 ppm	0.5069 ppm	0.5311 ppm
Concentration per Run 2	0.5089 ppm	0.5333 ppm	0.5009 ppm	0.5031 ppm	0.5067 ppm	0.4955 ppm	0.5194 ppm
Concentration per Run 3	0.5092 ppm	0.5192 ppm	0.5006 ppm	0.5038 ppm	0.5038 ppm	0.4927 ppm	0.5105 ppm
Recovery Percentage 1	101.886 %	105.322 %	100.247 %	100.758 %	101.914 %	99.667 %	104.066 %
Concentration RSD	0.1 %	1.3 %	0.2 %	0.1 %	1.5 %	1.5 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5001 ppm	0.5106 ppm	0.5116 ppm	0.5075 ppm	0.5274 ppm	5.1413 ppm	0.4959 ppm
Concentration per Run 1	0.5011 ppm	0.5112 ppm	0.5136 ppm	0.5093 ppm	0.5347 ppm	5.2385 ppm	0.4961 ppm
Concentration per Run 2	0.4992 ppm	0.5098 ppm	0.5099 ppm	0.5072 ppm	0.5258 ppm	5.0986 ppm	0.4955 ppm
Concentration per Run 3	0.4999 ppm	0.5108 ppm	0.5113 ppm	0.5060 ppm	0.5216 ppm	5.0868 ppm	0.4960 ppm
Recovery Percentage 1	100.012 %	102.129 %	102.320 %	101.501 %	105.474 %	102.826 %	99.176 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %	1.3 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4983 ppm	0.4983 ppm	10.1237 ppm	0.5151 ppm	0.5139 ppm	0.5179 ppm	0.5196 ppm
Concentration per Run 1	0.5066 ppm	0.4981 ppm	10.3104 ppm	0.5159 ppm	0.5160 ppm	0.5191 ppm	0.5183 ppm
Concentration per Run 2	0.4969 ppm	0.4977 ppm	10.0823 ppm	0.5144 ppm	0.5121 ppm	0.5172 ppm	0.5212 ppm
Concentration per Run 3	0.4914 ppm	0.4991 ppm	9.9784 ppm	0.5151 ppm	0.5136 ppm	0.5174 ppm	0.5193 ppm
Recovery Percentage 1	99.662 %	99.657 %	101.237 %	103.028 %	102.780 %	103.584 %	103.919 %
Concentration RSD	1.5 %	0.1 %	1.7 %	0.1 %	0.4 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.8136 ppm	0.5025 ppm	0.4958 ppm	0.4843 ppm	0.5104 ppm	0.5092 ppm	0.5184 ppm
Concentration per Run 1	5.8192 ppm	0.5038 ppm	0.5039 ppm	0.4842 ppm	0.5116 ppm	0.5098 ppm	0.5195 ppm
Concentration per Run 2	5.8047 ppm	0.5007 ppm	0.4932 ppm	0.4851 ppm	0.5092 ppm	0.5099 ppm	0.5171 ppm
Concentration per Run 3	5.8168 ppm	0.5030 ppm	0.4904 ppm	0.4836 ppm	0.5105 ppm	0.5079 ppm	0.5187 ppm
Recovery Percentage 1	110.735 %	100.502 %	99.167 %	96.858 %	102.085 %	101.840 %	103.684 %
Concentration RSD	0.1 %	0.3 %	1.4 %	0.2 %	0.2 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.8528 %	99.9244 %	101.7075 %	91.4882 %	101.3792 %	105.1325 %
Concentration per Run 1	98.5200 %	99.9639 %	101.5599 %	90.5234 %	101.1065 %	105.2440 %
Concentration per Run 2	100.2335 %	99.9724 %	101.8482 %	91.8045 %	101.8066 %	104.9684 %
Concentration per Run 3	100.8048 %	99.8369 %	101.7144 %	92.1367 %	101.2244 %	105.1851 %
Recovery Percentage 1						
Concentration RSD	1.2 %	0.1 %	0.1 %	0.9 %	0.4 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 3:14:21 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0142 ppm	0.0010 ppm	0.0015 ppm	-0.0001 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 1	-0.0004 ppm	0.0151 ppm	0.0011 ppm	0.0017 ppm	-0.0002 ppm	0.0001 ppm	-0.0134 ppm
Concentration per Run 2	-0.0010 ppm	0.0117 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 3	-0.0005 ppm	0.0158 ppm	0.0014 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm
Recovery Percentage 1	-8.775 %	14.231 %	19.297 %	4.855 %	-1.119 %	2.241 %	-1.338 %
Concentration RSD	55.2 %	15.5 %	52.4 %	15.0 %	122.7 %	30.2 %	783.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0069 ppm	-0.0759 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0004 ppm	0.0066 ppm	-0.1161 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0071 ppm	-0.0366 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0070 ppm	-0.0751 ppm	0.0005 ppm
Recovery Percentage 1	1.796 %	-0.426 %	-4.170 %	1.645 %	13.828 %	-3.037 %	0.145 %
Concentration RSD	39.5 %	106.6 %	32.8 %	146.4 %	4.0 %	52.3 %	451.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0014 ppm	-0.0102 ppm	0.0006 ppm	0.0002 ppm	0.0027 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	-0.0192 ppm	0.0004 ppm	0.0001 ppm	0.0040 ppm	0.0005 ppm
Concentration per Run 2	0.0007 ppm	0.0014 ppm	0.0021 ppm	0.0010 ppm	0.0007 ppm	0.0022 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0013 ppm	-0.0136 ppm	0.0004 ppm	-0.0002 ppm	0.0020 ppm	0.0014 ppm
Recovery Percentage 1	3.010 %	2.853 %	-0.512 %	2.317 %	1.860 %	5.468 %	7.098 %
Concentration RSD	111.1 %	8.7 %	107.8 %	57.2 %	245.5 %	39.2 %	80.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0022 ppm	0.0007 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0013 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0002 ppm	-0.0009 ppm
Recovery Percentage 1	0.217 %	0.846 %	0.121 %	3.956 %	-1.917 %	2.918 %	-16.063 %
Concentration RSD	103.6 %	68.5 %	1,368.2 %	46.3 %	234.4 %	57.7 %	10.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9093 %	101.4662 %	102.8215 %	85.6517 %	100.2145 %	102.9303 %
Concentration per Run 1	106.8814 %	101.0964 %	102.6011 %	84.9641 %	99.9115 %	102.4760 %
Concentration per Run 2	102.8672 %	101.6893 %	102.7013 %	85.5908 %	99.9032 %	103.1925 %
Concentration per Run 3	101.9794 %	101.6131 %	103.1621 %	86.4000 %	100.8289 %	103.1224 %
Recovery Percentage 1						
Concentration RSD	2.5 %	0.3 %	0.3 %	0.8 %	0.5 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2430864-01D2 WG1935616
Analysis started at: 6/18/2024 3:29:59 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0031 ppm	27.2714 ppm	0.0097 ppm	0.0030 ppm	0.1874 ppm	0.0012 ppm	4.8864 ppm
Concentration per Run 1	0.0033 ppm	26.8836 ppm	0.0093 ppm	0.0031 ppm	0.1850 ppm	0.0010 ppm	4.8156 ppm
Concentration per Run 2	0.0031 ppm	27.4279 ppm	0.0098 ppm	0.0034 ppm	0.1881 ppm	0.0012 ppm	4.9220 ppm
Concentration per Run 3	0.0030 ppm	27.5027 ppm	0.0099 ppm	0.0027 ppm	0.1890 ppm	0.0012 ppm	4.9215 ppm
Concentration RSD	3.9 %	1.2 %	3.4 %	11.8 %	1.1 %	9.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0070 ppm	0.0212 ppm	0.7606 ppm	1.8776 ppm	62.4808 ppm	5.6399 ppm	10.5698 ppm
Concentration per Run 1	0.0070 ppm	0.0212 ppm	0.7614 ppm	1.8774 ppm	61.5908 ppm	5.5851 ppm	10.5731 ppm
Concentration per Run 2	0.0070 ppm	0.0210 ppm	0.7596 ppm	1.8753 ppm	62.7988 ppm	5.6947 ppm	10.5634 ppm
Concentration per Run 3	0.0071 ppm	0.0213 ppm	0.7608 ppm	1.8802 ppm	63.0529 ppm	5.6398 ppm	10.5730 ppm
Concentration RSD	0.5 %	0.6 %	0.1 %	0.1 %	1.3 %	1.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.6117 ppm	0.0079 ppm	0.3997 ppm	0.1094 ppm	0.2677 ppm	0.0054 ppm	0.0023 ppm
Concentration per Run 1	0.6013 ppm	0.0078 ppm	0.4032 ppm	0.1091 ppm	0.2668 ppm	0.0027 ppm	0.0003 ppm
Concentration per Run 2	0.6159 ppm	0.0082 ppm	0.3971 ppm	0.1096 ppm	0.2673 ppm	0.0067 ppm	0.0040 ppm
Concentration per Run 3	0.6179 ppm	0.0078 ppm	0.3987 ppm	0.1095 ppm	0.2689 ppm	0.0070 ppm	0.0025 ppm
Concentration RSD	1.5 %	3.3 %	0.8 %	0.3 %	0.4 %	43.7 %	82.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5458 ppm	0.0875 ppm	0.0233 ppm	2.0660 ppm	0.0005 ppm	0.0915 ppm	1.4393 ppm
Concentration per Run 1	2.5485 ppm	0.0881 ppm	0.0229 ppm	2.0643 ppm	0.0009 ppm	0.0915 ppm	1.4331 ppm
Concentration per Run 2	2.5367 ppm	0.0863 ppm	0.0234 ppm	2.0657 ppm	-0.0002 ppm	0.0916 ppm	1.4414 ppm
Concentration per Run 3	2.5523 ppm	0.0881 ppm	0.0236 ppm	2.0680 ppm	0.0007 ppm	0.0914 ppm	1.4433 ppm
Concentration RSD	0.3 %	1.2 %	1.4 %	0.1 %	123.6 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.2684 %	106.2471 %	107.7688 %	96.3725 %	102.0609 %	107.8003 %
Concentration per Run 1	110.9884 %	106.0207 %	107.8938 %	96.9646 %	102.5928 %	107.5362 %
Concentration per Run 2	108.9508 %	106.5315 %	107.7784 %	96.2099 %	101.8476 %	108.0520 %
Concentration per Run 3	107.8660 %	106.1890 %	107.6343 %	95.9430 %	101.7424 %	107.8128 %
Concentration RSD	1.5 %	0.2 %	0.1 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2430864-02D2 WG1935616
Analysis started at: 6/18/2024 3:36:10 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0113 ppm	32.5050 ppm	0.0099 ppm	0.0046 ppm	0.3065 ppm	0.0014 ppm	6.2113 ppm
Concentration per Run 1	0.0115 ppm	32.5002 ppm	0.0097 ppm	0.0039 ppm	0.3065 ppm	0.0012 ppm	6.1906 ppm
Concentration per Run 2	0.0112 ppm	32.3648 ppm	0.0113 ppm	0.0048 ppm	0.3054 ppm	0.0014 ppm	6.1882 ppm
Concentration per Run 3	0.0110 ppm	32.6500 ppm	0.0087 ppm	0.0053 ppm	0.3077 ppm	0.0015 ppm	6.2551 ppm
Concentration RSD	2.3 %	0.4 %	13.5 %	15.4 %	0.4 %	9.4 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0142 ppm	0.0260 ppm	1.2867 ppm	3.0958 ppm	64.6078 ppm	7.3917 ppm	14.0651 ppm
Concentration per Run 1	0.0142 ppm	0.0261 ppm	1.2875 ppm	3.0980 ppm	64.6269 ppm	7.4265 ppm	14.0799 ppm
Concentration per Run 2	0.0142 ppm	0.0260 ppm	1.2873 ppm	3.0962 ppm	64.2032 ppm	7.3622 ppm	14.0511 ppm
Concentration per Run 3	0.0142 ppm	0.0260 ppm	1.2854 ppm	3.0931 ppm	64.9934 ppm	7.3863 ppm	14.0643 ppm
Concentration RSD	0.3 %	0.3 %	0.1 %	0.1 %	0.6 %	0.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.7933 ppm	0.0030 ppm	0.5591 ppm	0.1966 ppm	0.5429 ppm	0.0065 ppm	0.0040 ppm
Concentration per Run 1	0.7938 ppm	0.0032 ppm	0.5612 ppm	0.1969 ppm	0.5424 ppm	0.0066 ppm	0.0052 ppm
Concentration per Run 2	0.7882 ppm	0.0031 ppm	0.5574 ppm	0.1965 ppm	0.5433 ppm	0.0049 ppm	0.0020 ppm
Concentration per Run 3	0.7979 ppm	0.0028 ppm	0.5586 ppm	0.1964 ppm	0.5431 ppm	0.0080 ppm	0.0048 ppm
Concentration RSD	0.6 %	7.9 %	0.3 %	0.1 %	0.1 %	24.1 %	44.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1570 ppm	0.0842 ppm	0.0363 ppm	3.1291 ppm	0.0002 ppm	0.1096 ppm	1.9476 ppm
Concentration per Run 1	3.1998 ppm	0.0840 ppm	0.0362 ppm	3.1289 ppm	0.0000 ppm	0.1098 ppm	1.9489 ppm
Concentration per Run 2	3.1404 ppm	0.0844 ppm	0.0361 ppm	3.1250 ppm	0.0005 ppm	0.1097 ppm	1.9462 ppm
Concentration per Run 3	3.1309 ppm	0.0844 ppm	0.0365 ppm	3.1335 ppm	0.0002 ppm	0.1094 ppm	1.9477 ppm
Concentration RSD	1.2 %	0.2 %	0.5 %	0.1 %	114.5 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.1643 %	105.4281 %	106.1942 %	95.8919 %	101.8444 %	107.5741 %
Concentration per Run 1	108.2731 %	105.3828 %	106.2126 %	96.1414 %	101.7511 %	107.3186 %
Concentration per Run 2	109.1178 %	105.2862 %	106.1746 %	96.4108 %	102.0073 %	107.6246 %
Concentration per Run 3	107.1020 %	105.6152 %	106.1955 %	95.1233 %	101.7749 %	107.7790 %
Concentration RSD	0.9 %	0.2 %	0.0 %	0.7 %	0.1 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 3:42:21 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5080 ppm	0.5318 ppm	0.4971 ppm	0.4998 ppm	0.5106 ppm	0.4942 ppm	0.5245 ppm
Concentration per Run 1	0.5094 ppm	0.5379 ppm	0.4974 ppm	0.5006 ppm	0.5241 ppm	0.5071 ppm	0.5271 ppm
Concentration per Run 2	0.5078 ppm	0.5288 ppm	0.4964 ppm	0.5001 ppm	0.5070 ppm	0.4900 ppm	0.5281 ppm
Concentration per Run 3	0.5069 ppm	0.5288 ppm	0.4976 ppm	0.4988 ppm	0.5008 ppm	0.4853 ppm	0.5183 ppm
Recovery Percentage 1	101.602 %	106.360 %	99.426 %	99.968 %	102.129 %	98.830 %	104.902 %
Concentration RSD	0.3 %	1.0 %	0.1 %	0.2 %	2.4 %	2.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4982 ppm	0.5085 ppm	0.5128 ppm	0.5074 ppm	0.5308 ppm	5.1048 ppm	0.4901 ppm
Concentration per Run 1	0.4983 ppm	0.5089 ppm	0.5130 ppm	0.5087 ppm	0.5456 ppm	5.2895 ppm	0.4915 ppm
Concentration per Run 2	0.4991 ppm	0.5091 ppm	0.5127 ppm	0.5069 ppm	0.5269 ppm	5.0501 ppm	0.4906 ppm
Concentration per Run 3	0.4972 ppm	0.5076 ppm	0.5128 ppm	0.5065 ppm	0.5200 ppm	4.9748 ppm	0.4881 ppm
Recovery Percentage 1	99.640 %	101.707 %	102.563 %	101.470 %	106.166 %	102.095 %	98.010 %
Concentration RSD	0.2 %	0.2 %	0.0 %	0.2 %	2.5 %	3.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4949 ppm	0.4957 ppm	10.0986 ppm	0.5118 ppm	0.5105 ppm	0.5142 ppm	0.5153 ppm
Concentration per Run 1	0.5070 ppm	0.4947 ppm	10.3768 ppm	0.5127 ppm	0.5115 ppm	0.5151 ppm	0.5163 ppm
Concentration per Run 2	0.4924 ppm	0.4971 ppm	10.0349 ppm	0.5123 ppm	0.5106 ppm	0.5137 ppm	0.5137 ppm
Concentration per Run 3	0.4853 ppm	0.4952 ppm	9.8843 ppm	0.5104 ppm	0.5095 ppm	0.5137 ppm	0.5159 ppm
Recovery Percentage 1	98.974 %	99.133 %	100.986 %	102.364 %	102.103 %	102.835 %	103.059 %
Concentration RSD	2.2 %	0.2 %	2.5 %	0.2 %	0.2 %	0.2 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7849 ppm	0.5018 ppm	0.4958 ppm	0.4791 ppm	0.5094 ppm	0.5093 ppm	0.5157 ppm
Concentration per Run 1	5.7900 ppm	0.5030 ppm	0.5089 ppm	0.4795 ppm	0.5103 ppm	0.5103 ppm	0.5160 ppm
Concentration per Run 2	5.7930 ppm	0.5022 ppm	0.4915 ppm	0.4791 ppm	0.5105 ppm	0.5097 ppm	0.5165 ppm
Concentration per Run 3	5.7717 ppm	0.5001 ppm	0.4868 ppm	0.4786 ppm	0.5073 ppm	0.5078 ppm	0.5145 ppm
Recovery Percentage 1	110.189 %	100.355 %	99.151 %	95.816 %	101.878 %	101.858 %	103.136 %
Concentration RSD	0.2 %	0.3 %	2.4 %	0.1 %	0.4 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.2382 %	99.9040 %	101.9006 %	90.5577 %	101.7143 %	105.7230 %
Concentration per Run 1	98.0580 %	100.1988 %	101.9356 %	88.6001 %	101.6902 %	105.7096 %
Concentration per Run 2	101.1862 %	99.6725 %	101.8313 %	91.1980 %	101.4539 %	105.6391 %
Concentration per Run 3	101.4704 %	99.8406 %	101.9349 %	91.8751 %	101.9987 %	105.8203 %
Recovery Percentage 1						
Concentration RSD	1.9 %	0.3 %	0.1 %	1.9 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 3:48:25 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	0.0055 ppm	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 1	-0.0005 ppm	0.0206 ppm	-0.0007 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.0008 ppm	-0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 3	-0.0008 ppm	-0.0048 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0038 ppm
Recovery Percentage 1	-9.471 %	5.540 %	-16.890 %	0.428 %	-0.680 %	1.848 %	-2.077 %
Concentration RSD	21.4 %	240.3 %	141.6 %	268.8 %	364.5 %	69.1 %	111.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0080 ppm	-0.0622 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0080 ppm	-0.0562 ppm	0.0036 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0088 ppm	-0.0600 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0073 ppm	-0.0705 ppm	0.0008 ppm
Recovery Percentage 1	1.897 %	-0.421 %	-0.091 %	4.500 %	16.055 %	-2.489 %	2.038 %
Concentration RSD	31.7 %	218.7 %	5,492.1 %	27.9 %	9.2 %	11.9 %	69.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0011 ppm	-0.0114 ppm	0.0006 ppm	0.0000 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0011 ppm	-0.0125 ppm	0.0006 ppm	0.0003 ppm	0.0012 ppm	-0.0028 ppm
Concentration per Run 2	0.0003 ppm	0.0012 ppm	-0.0144 ppm	0.0004 ppm	-0.0007 ppm	0.0033 ppm	0.0024 ppm
Concentration per Run 3	0.0003 ppm	0.0009 ppm	-0.0073 ppm	0.0009 ppm	0.0004 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	4.252 %	2.107 %	-0.571 %	2.429 %	-0.209 %	2.507 %	-0.992 %
Concentration RSD	44.5 %	13.2 %	32.0 %	43.5 %	3,025.0 %	159.5 %	2,620.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.0023 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	-0.0017 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm	-0.0007 ppm
Recovery Percentage 1	0.226 %	0.437 %	0.253 %	3.856 %	-3.054 %	4.162 %	-15.520 %
Concentration RSD	90.7 %	254.5 %	428.5 %	74.8 %	166.1 %	48.7 %	5.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.1069 %	100.0808 %	102.0841 %	85.8739 %	99.2141 %	102.0790 %
Concentration per Run 1	101.2839 %	100.2078 %	102.1376 %	84.0891 %	99.1058 %	102.0097 %
Concentration per Run 2	101.1004 %	99.7908 %	102.1233 %	86.2532 %	99.1375 %	101.7216 %
Concentration per Run 3	100.9365 %	100.2439 %	101.9914 %	87.2795 %	99.3989 %	102.5059 %
Recovery Percentage 1						
Concentration RSD	0.2 %	0.3 %	0.1 %	1.9 %	0.2 %	0.4 %

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-1 WG1935805
Analysis started at: 6/18/2024 4:00:54 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0258 ppm	0.0001 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0290 ppm
Concentration per Run 1	-0.0009 ppm	0.0293 ppm	0.0009 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0272 ppm
Concentration per Run 2	-0.0006 ppm	0.0248 ppm	-0.0006 ppm	0.0010 ppm	-0.0004 ppm	0.0000 ppm	0.0281 ppm
Concentration per Run 3	-0.0009 ppm	0.0232 ppm	-0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0318 ppm
Recovery Percentage 1	-11.160 %	25.764 %	1.163 %	3.350 %	-1.258 %	0.229 %	29.026 %
Concentration RSD	18.3 %	12.4 %	1,330.3 %	4.1 %	167.2 %	247.9 %	8.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0138 ppm	-0.0686 ppm	0.0056 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0131 ppm	-0.0963 ppm	0.0045 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0006 ppm	0.0126 ppm	-0.0342 ppm	0.0042 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0159 ppm	-0.0752 ppm	0.0082 ppm
Recovery Percentage 1	0.815 %	-0.978 %	0.158 %	3.921 %	27.659 %	-2.744 %	5.627 %
Concentration RSD	97.7 %	31.0 %	2,929.5 %	49.3 %	12.8 %	46.0 %	39.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.4485 ppm	0.0006 ppm	0.0009 ppm	0.0018 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.4298 ppm	0.0002 ppm	0.0006 ppm	0.0022 ppm	-0.0008 ppm
Concentration per Run 2	0.0003 ppm	0.0004 ppm	0.4524 ppm	0.0008 ppm	0.0011 ppm	0.0023 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.4634 ppm	0.0007 ppm	0.0010 ppm	0.0008 ppm	0.0009 ppm
Recovery Percentage 1	1.708 %	0.572 %	22.425 %	2.355 %	9.061 %	3.531 %	9.599 %
Concentration RSD	57.9 %	37.5 %	3.8 %	51.2 %	32.8 %	46.8 %	188.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0244 ppm	-0.0009 ppm	0.0001 ppm	0.0005 ppm	-0.0026 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.0254 ppm	-0.0007 ppm	0.0000 ppm	0.0008 ppm	-0.0029 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 2	0.0238 ppm	-0.0010 ppm	0.0001 ppm	0.0002 ppm	-0.0020 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0242 ppm	-0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0028 ppm	0.0004 ppm	0.0008 ppm
Recovery Percentage 1	4.888 %	-1.828 %	0.562 %	5.326 %	-12.792 %	2.770 %	14.640 %
Concentration RSD	3.4 %	25.3 %	104.8 %	50.8 %	18.4 %	53.0 %	12.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.0835 %	99.2434 %	100.8625 %	103.6450 %	98.9195 %	105.6561 %
Concentration per Run 1	105.4288 %	99.3153 %	100.8879 %	108.0186 %	99.1259 %	105.7460 %
Concentration per Run 2	102.9899 %	99.4740 %	100.9391 %	103.5531 %	99.2210 %	105.9031 %
Concentration per Run 3	100.8320 %	98.9408 %	100.7605 %	99.3634 %	98.4117 %	105.3191 %
Recovery Percentage 1						
Concentration RSD	2.2 %	0.3 %	0.1 %	4.2 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-2 WG1935805
Analysis started at: 6/18/2024 4:07:14 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0502 ppm	2.0556 ppm	0.1247 ppm	0.9443 ppm	2.0223 ppm	0.0484 ppm	9.8702 ppm
Concentration per Run 1	0.0506 ppm	2.0482 ppm	0.1232 ppm	0.9459 ppm	2.0088 ppm	0.0480 ppm	9.7939 ppm
Concentration per Run 2	0.0500 ppm	2.0591 ppm	0.1247 ppm	0.9424 ppm	2.0287 ppm	0.0486 ppm	9.8978 ppm
Concentration per Run 3	0.0501 ppm	2.0594 ppm	0.1263 ppm	0.9447 ppm	2.0295 ppm	0.0486 ppm	9.9188 ppm
Concentration RSD	0.6 %	0.3 %	1.2 %	0.2 %	0.6 %	0.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0540 ppm	0.4945 ppm	0.2051 ppm	0.2604 ppm	1.0064 ppm	9.6387 ppm	9.2579 ppm
Concentration per Run 1	0.0541 ppm	0.4956 ppm	0.2056 ppm	0.2610 ppm	0.9970 ppm	9.5837 ppm	9.3021 ppm
Concentration per Run 2	0.0539 ppm	0.4937 ppm	0.2058 ppm	0.2605 ppm	1.0104 ppm	9.6849 ppm	9.2582 ppm
Concentration per Run 3	0.0540 ppm	0.4942 ppm	0.2039 ppm	0.2596 ppm	1.0119 ppm	9.6476 ppm	9.2134 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.3 %	0.8 %	0.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4904 ppm	0.9568 ppm	9.6671 ppm	0.5031 ppm	0.5550 ppm	0.5182 ppm	0.1250 ppm
Concentration per Run 1	0.4870 ppm	0.9561 ppm	9.6254 ppm	0.5037 ppm	0.5554 ppm	0.5195 ppm	0.1268 ppm
Concentration per Run 2	0.4923 ppm	0.9567 ppm	9.6969 ppm	0.5022 ppm	0.5550 ppm	0.5172 ppm	0.1228 ppm
Concentration per Run 3	0.4920 ppm	0.9577 ppm	9.6789 ppm	0.5033 ppm	0.5545 ppm	0.5180 ppm	0.1254 ppm
Concentration RSD	0.6 %	0.1 %	0.4 %	0.2 %	0.1 %	0.2 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2874 ppm	0.9625 ppm	0.9289 ppm	0.9158 ppm	0.1221 ppm	0.5147 ppm	0.5070 ppm
Concentration per Run 1	1.2901 ppm	0.9637 ppm	0.9235 ppm	0.9192 ppm	0.1221 ppm	0.5167 ppm	0.5082 ppm
Concentration per Run 2	1.2867 ppm	0.9603 ppm	0.9323 ppm	0.9164 ppm	0.1223 ppm	0.5147 ppm	0.5061 ppm
Concentration per Run 3	1.2855 ppm	0.9633 ppm	0.9310 ppm	0.9118 ppm	0.1219 ppm	0.5128 ppm	0.5068 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.4 %	0.2 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2054 %	96.0115 %	99.1477 %	91.6775 %	98.1692 %	102.6683 %
Concentration per Run 1	98.5494 %	95.1678 %	99.0000 %	91.7937 %	98.0219 %	102.1924 %
Concentration per Run 2	98.2119 %	96.0217 %	99.3803 %	91.7832 %	98.3633 %	102.4735 %
Concentration per Run 3	97.8547 %	96.8451 %	99.0628 %	91.4557 %	98.1224 %	103.3390 %
Concentration RSD	0.4 %	0.9 %	0.2 %	0.2 %	0.2 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-22 WG1935805
Analysis started at: 6/18/2024 4:13:21 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0324 ppm	0.0003 ppm	0.0167 ppm	0.0698 ppm	0.0000 ppm	189.3504 ppm
Concentration per Run 1	-0.0010 ppm	0.0384 ppm	0.0010 ppm	0.0169 ppm	0.0717 ppm	0.0000 ppm	194.2371 ppm
Concentration per Run 2	-0.0010 ppm	0.0343 ppm	-0.0005 ppm	0.0163 ppm	0.0690 ppm	0.0000 ppm	187.6531 ppm
Concentration per Run 3	-0.0006 ppm	0.0245 ppm	0.0004 ppm	0.0169 ppm	0.0686 ppm	-0.0001 ppm	186.1610 ppm
Concentration RSD	24.2 %	22.0 %	226.8 %	2.0 %	2.4 %	111.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0064 ppm	0.0090 ppm	5.5726 ppm	3.6678 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0065 ppm	0.0079 ppm	5.7119 ppm	3.6745 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0065 ppm	0.0094 ppm	5.5236 ppm	3.6614 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0063 ppm	0.0096 ppm	5.4823 ppm	3.6674 ppm
Concentration RSD	59.1 %	30.5 %	28.0 %	1.3 %	10.1 %	2.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	0.0067 ppm	3.0243 ppm	0.0059 ppm	-0.0001 ppm	0.0024 ppm	-0.0009 ppm
Concentration per Run 1	0.0015 ppm	0.0070 ppm	3.0984 ppm	0.0057 ppm	0.0005 ppm	0.0029 ppm	-0.0025 ppm
Concentration per Run 2	0.0016 ppm	0.0066 ppm	2.9949 ppm	0.0059 ppm	-0.0012 ppm	0.0014 ppm	0.0010 ppm
Concentration per Run 3	0.0019 ppm	0.0065 ppm	2.9795 ppm	0.0060 ppm	0.0004 ppm	0.0029 ppm	-0.0014 ppm
Concentration RSD	11.3 %	3.5 %	2.1 %	2.6 %	920.1 %	36.2 %	193.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.6847 ppm	-0.0006 ppm	0.4293 ppm	0.0025 ppm	-0.0022 ppm	0.0048 ppm	-0.0012 ppm
Concentration per Run 1	1.6852 ppm	-0.0006 ppm	0.4402 ppm	0.0026 ppm	-0.0015 ppm	0.0045 ppm	-0.0012 ppm
Concentration per Run 2	1.6785 ppm	-0.0002 ppm	0.4247 ppm	0.0023 ppm	-0.0029 ppm	0.0051 ppm	-0.0011 ppm
Concentration per Run 3	1.6904 ppm	-0.0009 ppm	0.4230 ppm	0.0026 ppm	-0.0020 ppm	0.0047 ppm	-0.0012 ppm
Concentration RSD	0.4 %	56.7 %	2.2 %	6.9 %	32.0 %	5.9 %	4.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.2916 %	95.7214 %	96.8142 %	90.2226 %	94.6604 %	102.8453 %
Concentration per Run 1	95.8614 %	95.6546 %	96.8529 %	88.3824 %	94.5020 %	102.8267 %
Concentration per Run 2	99.0582 %	95.7821 %	96.8776 %	90.5808 %	94.9341 %	102.9465 %
Concentration per Run 3	99.9552 %	95.7274 %	96.7121 %	91.7047 %	94.5450 %	102.7628 %
Concentration RSD	2.2 %	0.1 %	0.1 %	1.9 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-23 WG1935805
Analysis started at: 6/18/2024 4:19:36 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0339 ppm	0.0007 ppm	0.0309 ppm	0.1057 ppm	0.0000 ppm	181.9239 ppm
Concentration per Run 1	-0.0008 ppm	0.0241 ppm	0.0002 ppm	0.0309 ppm	0.1028 ppm	0.0000 ppm	177.4368 ppm
Concentration per Run 2	-0.0008 ppm	0.0369 ppm	-0.0003 ppm	0.0309 ppm	0.1066 ppm	0.0000 ppm	183.2624 ppm
Concentration per Run 3	-0.0010 ppm	0.0407 ppm	0.0023 ppm	0.0310 ppm	0.1076 ppm	-0.0001 ppm	185.0726 ppm
Concentration RSD	13.7 %	25.8 %	180.7 %	0.1 %	2.4 %	283.6 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0022 ppm	0.0002 ppm	0.0005 ppm	0.0090 ppm	4.4378 ppm	4.4481 ppm
Concentration per Run 1	0.0001 ppm	0.0021 ppm	0.0003 ppm	0.0004 ppm	0.0086 ppm	4.3326 ppm	4.4492 ppm
Concentration per Run 2	0.0001 ppm	0.0023 ppm	-0.0002 ppm	0.0005 ppm	0.0078 ppm	4.4963 ppm	4.4481 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0006 ppm	0.0007 ppm	0.0105 ppm	4.4845 ppm	4.4470 ppm
Concentration RSD	8.5 %	5.3 %	171.2 %	22.2 %	15.6 %	2.1 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1808 ppm	0.0040 ppm	2.5684 ppm	0.0118 ppm	0.0005 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.1762 ppm	0.0040 ppm	2.4954 ppm	0.0118 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	0.1818 ppm	0.0038 ppm	2.5948 ppm	0.0119 ppm	0.0003 ppm	0.0011 ppm	0.0011 ppm
Concentration per Run 3	0.1843 ppm	0.0042 ppm	2.6151 ppm	0.0116 ppm	0.0010 ppm	-0.0004 ppm	-0.0003 ppm
Concentration RSD	2.3 %	4.9 %	2.5 %	1.2 %	109.2 %	1,709.4 %	297.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0280 ppm	-0.0004 ppm	0.3576 ppm	0.0025 ppm	-0.0030 ppm	0.0009 ppm	0.0178 ppm
Concentration per Run 1	3.0273 ppm	-0.0011 ppm	0.3489 ppm	0.0029 ppm	-0.0025 ppm	0.0007 ppm	0.0178 ppm
Concentration per Run 2	3.0322 ppm	0.0002 ppm	0.3595 ppm	0.0022 ppm	-0.0030 ppm	0.0014 ppm	0.0177 ppm
Concentration per Run 3	3.0245 ppm	-0.0004 ppm	0.3644 ppm	0.0024 ppm	-0.0036 ppm	0.0006 ppm	0.0178 ppm
Concentration RSD	0.1 %	140.7 %	2.2 %	15.1 %	19.2 %	52.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.1997 %	95.5936 %	96.3632 %	91.7933 %	94.5288 %	102.8914 %
Concentration per Run 1	104.5462 %	95.3284 %	96.4672 %	91.6990 %	94.7247 %	102.5986 %
Concentration per Run 2	101.6152 %	96.0025 %	96.2231 %	91.6180 %	94.2066 %	103.2480 %
Concentration per Run 3	100.4376 %	95.4498 %	96.3993 %	92.0629 %	94.6550 %	102.8277 %
Concentration RSD	2.1 %	0.4 %	0.1 %	0.3 %	0.3 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-24 WG1935805
Analysis started at: 6/18/2024 4:25:49 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0468 ppm	0.0001 ppm	0.0322 ppm	0.1118 ppm	0.0000 ppm	181.7996 ppm
Concentration per Run 1	0.0001 ppm	0.0489 ppm	-0.0001 ppm	0.0323 ppm	0.1101 ppm	0.0000 ppm	179.3610 ppm
Concentration per Run 2	-0.0011 ppm	0.0452 ppm	-0.0013 ppm	0.0322 ppm	0.1118 ppm	0.0000 ppm	181.8157 ppm
Concentration per Run 3	-0.0008 ppm	0.0463 ppm	0.0017 ppm	0.0322 ppm	0.1134 ppm	0.0001 ppm	184.2221 ppm
Concentration RSD	100.3 %	4.0 %	1,646.7 %	0.1 %	1.5 %	155.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0015 ppm	0.0002 ppm	0.0081 ppm	0.0135 ppm	4.6500 ppm	4.7497 ppm
Concentration per Run 1	0.0001 ppm	0.0015 ppm	0.0003 ppm	0.0078 ppm	0.0141 ppm	4.6119 ppm	4.7495 ppm
Concentration per Run 2	0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0087 ppm	0.0133 ppm	4.6352 ppm	4.7406 ppm
Concentration per Run 3	0.0001 ppm	0.0016 ppm	0.0001 ppm	0.0078 ppm	0.0130 ppm	4.7029 ppm	4.7588 ppm
Concentration RSD	8.9 %	6.2 %	49.9 %	6.1 %	4.2 %	1.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1264 ppm	0.0063 ppm	2.7646 ppm	0.0095 ppm	0.0000 ppm	0.0027 ppm	0.0001 ppm
Concentration per Run 1	0.1246 ppm	0.0065 ppm	2.7194 ppm	0.0096 ppm	-0.0004 ppm	0.0025 ppm	0.0016 ppm
Concentration per Run 2	0.1271 ppm	0.0062 ppm	2.7720 ppm	0.0095 ppm	0.0010 ppm	0.0025 ppm	-0.0008 ppm
Concentration per Run 3	0.1274 ppm	0.0062 ppm	2.8023 ppm	0.0094 ppm	-0.0006 ppm	0.0033 ppm	-0.0006 ppm
Concentration RSD	1.2 %	2.9 %	1.5 %	1.0 %	258,012.2 %	16.7 %	1,595.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7865 ppm	-0.0002 ppm	0.3883 ppm	0.0022 ppm	-0.0030 ppm	0.0014 ppm	0.0066 ppm
Concentration per Run 1	2.7962 ppm	0.0003 ppm	0.3837 ppm	0.0024 ppm	-0.0027 ppm	0.0016 ppm	0.0066 ppm
Concentration per Run 2	2.7763 ppm	-0.0006 ppm	0.3879 ppm	0.0023 ppm	-0.0022 ppm	0.0010 ppm	0.0065 ppm
Concentration per Run 3	2.7869 ppm	-0.0003 ppm	0.3933 ppm	0.0018 ppm	-0.0040 ppm	0.0016 ppm	0.0065 ppm
Concentration RSD	0.4 %	210.2 %	1.2 %	12.8 %	30.9 %	24.5 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9931 %	95.1706 %	96.1119 %	89.8108 %	94.6764 %	103.0519 %
Concentration per Run 1	101.3119 %	95.2016 %	95.4004 %	89.5651 %	93.9813 %	103.1623 %
Concentration per Run 2	100.0841 %	95.4097 %	96.5379 %	90.2133 %	95.1156 %	103.2646 %
Concentration per Run 3	98.5834 %	94.9004 %	96.3972 %	89.6541 %	94.9324 %	102.7289 %
Concentration RSD	1.4 %	0.3 %	0.6 %	0.4 %	0.6 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-21 WG1935805
Analysis started at: 6/18/2024 4:32:05 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0367 ppm	-0.0006 ppm	0.0198 ppm	0.0780 ppm	0.0000 ppm	187.0587 ppm
Concentration per Run 1	-0.0011 ppm	0.0294 ppm	0.0006 ppm	0.0198 ppm	0.0785 ppm	0.0000 ppm	188.2332 ppm
Concentration per Run 2	-0.0005 ppm	0.0393 ppm	-0.0012 ppm	0.0203 ppm	0.0775 ppm	0.0000 ppm	186.6161 ppm
Concentration per Run 3	-0.0003 ppm	0.0416 ppm	-0.0010 ppm	0.0194 ppm	0.0778 ppm	0.0000 ppm	186.3268 ppm
Concentration RSD	69.2 %	17.7 %	176.5 %	2.3 %	0.6 %	172.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0048 ppm	0.0104 ppm	4.3762 ppm	4.1393 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0049 ppm	0.0119 ppm	4.4263 ppm	4.1517 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0047 ppm	0.0117 ppm	4.3305 ppm	4.1300 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0049 ppm	0.0078 ppm	4.3717 ppm	4.1361 ppm
Concentration RSD	50.1 %	92.5 %	65.1 %	2.5 %	22.3 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0223 ppm	0.0054 ppm	2.4596 ppm	0.0060 ppm	-0.0003 ppm	0.0018 ppm	0.0023 ppm
Concentration per Run 1	0.0220 ppm	0.0054 ppm	2.4770 ppm	0.0062 ppm	0.0001 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 2	0.0220 ppm	0.0053 ppm	2.4434 ppm	0.0056 ppm	-0.0003 ppm	0.0022 ppm	0.0029 ppm
Concentration per Run 3	0.0230 ppm	0.0055 ppm	2.4583 ppm	0.0062 ppm	-0.0007 ppm	0.0026 ppm	0.0044 ppm
Concentration RSD	2.5 %	1.6 %	0.7 %	5.2 %	153.4 %	53.9 %	104.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9515 ppm	-0.0003 ppm	0.3786 ppm	0.0019 ppm	-0.0028 ppm	0.0023 ppm	-0.0011 ppm
Concentration per Run 1	1.9552 ppm	-0.0001 ppm	0.3817 ppm	0.0020 ppm	-0.0028 ppm	0.0018 ppm	-0.0012 ppm
Concentration per Run 2	1.9559 ppm	-0.0005 ppm	0.3765 ppm	0.0021 ppm	-0.0016 ppm	0.0027 ppm	-0.0010 ppm
Concentration per Run 3	1.9435 ppm	-0.0003 ppm	0.3776 ppm	0.0018 ppm	-0.0042 ppm	0.0025 ppm	-0.0011 ppm
Concentration RSD	0.4 %	71.2 %	0.7 %	9.0 %	46.5 %	19.0 %	5.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.9989 %	94.9079 %	95.7791 %	90.9629 %	94.5896 %	102.6714 %
Concentration per Run 1	99.3410 %	94.6099 %	95.6805 %	90.8283 %	94.4790 %	102.4384 %
Concentration per Run 2	100.5251 %	94.9443 %	95.8183 %	91.3145 %	94.5009 %	102.6996 %
Concentration per Run 3	100.1307 %	95.1695 %	95.8386 %	90.7459 %	94.7891 %	102.8761 %
Concentration RSD	0.6 %	0.3 %	0.1 %	0.3 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-3 WG1935805
Analysis started at: 6/18/2024 4:38:22 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0485 ppm	1.9324 ppm	0.1254 ppm	0.9704 ppm	1.9608 ppm	0.0453 ppm	184.0472 ppm
Concentration per Run 1	0.0489 ppm	1.8528 ppm	0.1250 ppm	0.9696 ppm	1.8865 ppm	0.0437 ppm	176.9750 ppm
Concentration per Run 2	0.0478 ppm	1.9636 ppm	0.1274 ppm	0.9703 ppm	1.9908 ppm	0.0460 ppm	186.9398 ppm
Concentration per Run 3	0.0490 ppm	1.9809 ppm	0.1238 ppm	0.9714 ppm	2.0052 ppm	0.0461 ppm	188.2267 ppm
Concentration RSD	1.3 %	3.6 %	1.4 %	0.1 %	3.3 %	3.0 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0530 ppm	0.4834 ppm	0.1952 ppm	0.2570 ppm	0.9148 ppm	13.2048 ppm	12.4348 ppm
Concentration per Run 1	0.0528 ppm	0.4829 ppm	0.1946 ppm	0.2572 ppm	0.8787 ppm	12.7034 ppm	12.4255 ppm
Concentration per Run 2	0.0531 ppm	0.4838 ppm	0.1951 ppm	0.2559 ppm	0.9277 ppm	13.4141 ppm	12.4193 ppm
Concentration per Run 3	0.0529 ppm	0.4835 ppm	0.1959 ppm	0.2578 ppm	0.9380 ppm	13.4968 ppm	12.4595 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.4 %	3.5 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4677 ppm	0.9819 ppm	11.5417 ppm	0.4868 ppm	0.5343 ppm	0.5180 ppm	0.1246 ppm
Concentration per Run 1	0.4501 ppm	0.9792 ppm	11.1280 ppm	0.4858 ppm	0.5335 ppm	0.5165 ppm	0.1233 ppm
Concentration per Run 2	0.4750 ppm	0.9827 ppm	11.7086 ppm	0.4880 ppm	0.5352 ppm	0.5194 ppm	0.1258 ppm
Concentration per Run 3	0.4780 ppm	0.9839 ppm	11.7884 ppm	0.4865 ppm	0.5343 ppm	0.5181 ppm	0.1248 ppm
Concentration RSD	3.3 %	0.3 %	3.1 %	0.2 %	0.2 %	0.3 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2228 ppm	0.9672 ppm	1.2338 ppm	0.8772 ppm	0.1199 ppm	0.4914 ppm	0.4912 ppm
Concentration per Run 1	3.2199 ppm	0.9651 ppm	1.1871 ppm	0.8752 ppm	0.1204 ppm	0.4911 ppm	0.4903 ppm
Concentration per Run 2	3.2237 ppm	0.9690 ppm	1.2526 ppm	0.8777 ppm	0.1197 ppm	0.4910 ppm	0.4920 ppm
Concentration per Run 3	3.2249 ppm	0.9676 ppm	1.2616 ppm	0.8788 ppm	0.1195 ppm	0.4921 ppm	0.4912 ppm
Concentration RSD	0.1 %	0.2 %	3.3 %	0.2 %	0.4 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.8381 %	94.2011 %	94.7042 %	93.3689 %	94.0674 %	102.7076 %
Concentration per Run 1	106.4688 %	94.4279 %	94.8602 %	94.6106 %	94.3330 %	102.9271 %
Concentration per Run 2	101.2372 %	94.2377 %	94.5707 %	92.9276 %	93.8707 %	102.7776 %
Concentration per Run 3	100.8083 %	93.9377 %	94.6818 %	92.5684 %	93.9987 %	102.4182 %
Concentration RSD	3.1 %	0.3 %	0.2 %	1.2 %	0.3 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-4 WG1935805
Analysis started at: 6/18/2024 4:44:28 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0338 ppm	-0.0008 ppm	0.0206 ppm	0.0738 ppm	0.0000 ppm	177.0456 ppm
Concentration per Run 1	-0.0010 ppm	0.0316 ppm	-0.0017 ppm	0.0209 ppm	0.0703 ppm	0.0000 ppm	168.8895 ppm
Concentration per Run 2	-0.0003 ppm	0.0272 ppm	0.0002 ppm	0.0203 ppm	0.0752 ppm	0.0000 ppm	180.7521 ppm
Concentration per Run 3	-0.0005 ppm	0.0425 ppm	-0.0008 ppm	0.0204 ppm	0.0760 ppm	0.0000 ppm	181.4953 ppm
Concentration RSD	56.8 %	23.3 %	125.0 %	1.6 %	4.2 %	3,077.1 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0046 ppm	0.0061 ppm	4.1651 ppm	4.0585 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0042 ppm	0.0050 ppm	3.9723 ppm	4.0496 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0050 ppm	0.0068 ppm	4.2418 ppm	4.0607 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0045 ppm	0.0066 ppm	4.2813 ppm	4.0653 ppm
Concentration RSD	45.6 %	69.4 %	50.6 %	8.6 %	16.8 %	4.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0209 ppm	0.0067 ppm	2.3422 ppm	0.0060 ppm	-0.0002 ppm	0.0018 ppm	0.0009 ppm
Concentration per Run 1	0.0200 ppm	0.0070 ppm	2.2383 ppm	0.0059 ppm	0.0005 ppm	0.0011 ppm	-0.0013 ppm
Concentration per Run 2	0.0210 ppm	0.0067 ppm	2.3937 ppm	0.0061 ppm	0.0000 ppm	0.0016 ppm	0.0031 ppm
Concentration per Run 3	0.0219 ppm	0.0066 ppm	2.3945 ppm	0.0061 ppm	-0.0011 ppm	0.0027 ppm	0.0007 ppm
Concentration RSD	4.4 %	3.3 %	3.8 %	1.3 %	380.8 %	47.1 %	254.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9208 ppm	-0.0006 ppm	0.3595 ppm	0.0022 ppm	-0.0014 ppm	0.0023 ppm	-0.0009 ppm
Concentration per Run 1	1.9231 ppm	-0.0005 ppm	0.3429 ppm	0.0018 ppm	0.0000 ppm	0.0021 ppm	-0.0009 ppm
Concentration per Run 2	1.9221 ppm	-0.0007 ppm	0.3671 ppm	0.0024 ppm	-0.0027 ppm	0.0024 ppm	-0.0008 ppm
Concentration per Run 3	1.9172 ppm	-0.0007 ppm	0.3684 ppm	0.0025 ppm	-0.0015 ppm	0.0025 ppm	-0.0009 ppm
Concentration RSD	0.2 %	21.3 %	4.0 %	15.6 %	94.3 %	9.7 %	5.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2924 %	94.6545 %	95.2275 %	93.6510 %	94.3372 %	102.7236 %
Concentration per Run 1	107.8931 %	95.0337 %	95.4327 %	96.1127 %	94.3384 %	103.0864 %
Concentration per Run 2	100.9218 %	94.7587 %	95.0608 %	92.3887 %	94.1777 %	102.7827 %
Concentration per Run 3	101.0624 %	94.1711 %	95.1890 %	92.4517 %	94.4954 %	102.3017 %
Concentration RSD	3.9 %	0.5 %	0.2 %	2.3 %	0.2 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-5 WG1935805
Analysis started at: 6/18/2024 4:50:43 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0463 ppm	1.8735 ppm	0.1193 ppm	0.9764 ppm	1.9246 ppm	0.0448 ppm	188.2243 ppm
Concentration per Run 1	0.0461 ppm	1.8862 ppm	0.1181 ppm	0.9781 ppm	1.9336 ppm	0.0447 ppm	189.2249 ppm
Concentration per Run 2	0.0459 ppm	1.8596 ppm	0.1201 ppm	0.9763 ppm	1.9130 ppm	0.0445 ppm	187.1301 ppm
Concentration per Run 3	0.0469 ppm	1.8747 ppm	0.1197 ppm	0.9748 ppm	1.9273 ppm	0.0451 ppm	188.3180 ppm
Concentration RSD	1.2 %	0.7 %	0.9 %	0.2 %	0.5 %	0.7 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0507 ppm	0.4638 ppm	0.1877 ppm	0.2472 ppm	0.8997 ppm	13.5943 ppm	12.5511 ppm
Concentration per Run 1	0.0509 ppm	0.4644 ppm	0.1877 ppm	0.2468 ppm	0.8980 ppm	13.5846 ppm	12.5516 ppm
Concentration per Run 2	0.0506 ppm	0.4634 ppm	0.1876 ppm	0.2474 ppm	0.9039 ppm	13.5938 ppm	12.5673 ppm
Concentration per Run 3	0.0506 ppm	0.4634 ppm	0.1877 ppm	0.2474 ppm	0.8973 ppm	13.6046 ppm	12.5343 ppm
Concentration RSD	0.3 %	0.1 %	0.0 %	0.1 %	0.4 %	0.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4639 ppm	1.0050 ppm	11.8627 ppm	0.4684 ppm	0.5118 ppm	0.4950 ppm	0.1168 ppm
Concentration per Run 1	0.4664 ppm	1.0056 ppm	11.8797 ppm	0.4697 ppm	0.5125 ppm	0.4943 ppm	0.1179 ppm
Concentration per Run 2	0.4604 ppm	1.0044 ppm	11.8212 ppm	0.4674 ppm	0.5100 ppm	0.4966 ppm	0.1173 ppm
Concentration per Run 3	0.4650 ppm	1.0050 ppm	11.8872 ppm	0.4680 ppm	0.5127 ppm	0.4940 ppm	0.1152 ppm
Concentration RSD	0.7 %	0.1 %	0.3 %	0.2 %	0.3 %	0.3 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9091 ppm	0.9664 ppm	1.2648 ppm	0.8952 ppm	0.1131 ppm	0.4732 ppm	0.4706 ppm
Concentration per Run 1	2.9159 ppm	0.9685 ppm	1.2691 ppm	0.8950 ppm	0.1149 ppm	0.4728 ppm	0.4713 ppm
Concentration per Run 2	2.9057 ppm	0.9650 ppm	1.2585 ppm	0.8966 ppm	0.1127 ppm	0.4739 ppm	0.4705 ppm
Concentration per Run 3	2.9057 ppm	0.9657 ppm	1.2666 ppm	0.8940 ppm	0.1117 ppm	0.4728 ppm	0.4701 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %	1.4 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.7447 %	94.5102 %	94.8331 %	90.7831 %	94.2657 %	102.1693 %
Concentration per Run 1	100.4582 %	94.4613 %	95.0104 %	89.8039 %	94.1841 %	102.1448 %
Concentration per Run 2	101.2649 %	94.6691 %	94.6592 %	91.1918 %	94.2767 %	102.0762 %
Concentration per Run 3	100.5110 %	94.4001 %	94.8297 %	91.3535 %	94.3365 %	102.2868 %
Concentration RSD	0.4 %	0.1 %	0.2 %	0.9 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935805-6D5 WG1935805
Analysis started at: 6/18/2024 4:56:46 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0220 ppm	-0.0013 ppm	0.0047 ppm	0.0155 ppm	0.0001 ppm	37.6104 ppm
Concentration per Run 1	-0.0004 ppm	0.0037 ppm	-0.0027 ppm	0.0050 ppm	0.0153 ppm	0.0001 ppm	37.8653 ppm
Concentration per Run 2	-0.0007 ppm	0.0226 ppm	-0.0012 ppm	0.0043 ppm	0.0157 ppm	0.0000 ppm	37.5266 ppm
Concentration per Run 3	-0.0004 ppm	0.0397 ppm	0.0000 ppm	0.0049 ppm	0.0153 ppm	0.0000 ppm	37.4393 ppm
Concentration RSD	32.8 %	81.9 %	102.5 %	8.2 %	1.5 %	26.0 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0054 ppm	0.7879 ppm	0.8853 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0050 ppm	0.8124 ppm	0.8852 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0064 ppm	0.7804 ppm	0.8885 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0048 ppm	0.7710 ppm	0.8820 ppm
Concentration RSD	142.7 %	5,825.7 %	6,280.6 %	6.7 %	16.5 %	2.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0046 ppm	0.0025 ppm	0.4958 ppm	0.0018 ppm	-0.0005 ppm	0.0025 ppm	0.0014 ppm
Concentration per Run 1	0.0049 ppm	0.0026 ppm	0.4984 ppm	0.0015 ppm	0.0003 ppm	0.0023 ppm	0.0013 ppm
Concentration per Run 2	0.0044 ppm	0.0025 ppm	0.4931 ppm	0.0020 ppm	-0.0010 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 3	0.0047 ppm	0.0025 ppm	0.4958 ppm	0.0018 ppm	-0.0007 ppm	0.0017 ppm	0.0024 ppm
Concentration RSD	5.0 %	1.2 %	0.5 %	14.6 %	155.5 %	38.2 %	72.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3848 ppm	-0.0002 ppm	0.0766 ppm	0.0011 ppm	-0.0008 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 1	0.3861 ppm	-0.0003 ppm	0.0775 ppm	0.0009 ppm	-0.0012 ppm	0.0007 ppm	-0.0011 ppm
Concentration per Run 2	0.3855 ppm	0.0001 ppm	0.0760 ppm	0.0011 ppm	-0.0010 ppm	0.0007 ppm	-0.0011 ppm
Concentration per Run 3	0.3828 ppm	-0.0003 ppm	0.0763 ppm	0.0013 ppm	-0.0001 ppm	0.0009 ppm	-0.0011 ppm
Concentration RSD	0.5 %	128.1 %	1.0 %	18.7 %	81.9 %	16.6 %	3.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8401 %	97.8239 %	99.3142 %	89.6297 %	99.2207 %	104.1537 %
Concentration per Run 1	103.2481 %	97.7276 %	99.3322 %	88.1931 %	99.1873 %	104.0420 %
Concentration per Run 2	104.2466 %	98.0817 %	99.4506 %	90.0909 %	99.3336 %	104.2700 %
Concentration per Run 3	104.0254 %	97.6622 %	99.1597 %	90.6051 %	99.1411 %	104.1492 %
Concentration RSD	0.5 %	0.2 %	0.1 %	1.4 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 5:03:01 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4972 ppm	0.4990 ppm	0.4870 ppm	0.4909 ppm	0.4851 ppm	0.4707 ppm	0.4904 ppm
Concentration per Run 1	0.4978 ppm	0.4960 ppm	0.4877 ppm	0.4910 ppm	0.4790 ppm	0.4656 ppm	0.4796 ppm
Concentration per Run 2	0.4974 ppm	0.4949 ppm	0.4849 ppm	0.4902 ppm	0.4887 ppm	0.4744 ppm	0.4926 ppm
Concentration per Run 3	0.4964 ppm	0.5061 ppm	0.4883 ppm	0.4916 ppm	0.4877 ppm	0.4720 ppm	0.4990 ppm
Recovery Percentage 1	99.435 %	99.798 %	97.393 %	98.181 %	97.022 %	94.132 %	98.080 %
Concentration RSD	0.1 %	1.2 %	0.4 %	0.1 %	1.1 %	1.0 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4943 ppm	0.5036 ppm	0.5088 ppm	0.5009 ppm	0.4829 ppm	4.7581 ppm	0.4683 ppm
Concentration per Run 1	0.4949 ppm	0.5043 ppm	0.5095 ppm	0.5015 ppm	0.4749 ppm	4.7032 ppm	0.4683 ppm
Concentration per Run 2	0.4936 ppm	0.5030 ppm	0.5086 ppm	0.5014 ppm	0.4831 ppm	4.8139 ppm	0.4687 ppm
Concentration per Run 3	0.4942 ppm	0.5034 ppm	0.5082 ppm	0.4999 ppm	0.4908 ppm	4.7573 ppm	0.4679 ppm
Recovery Percentage 1	98.851 %	100.711 %	101.752 %	100.190 %	96.583 %	95.162 %	93.652 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.2 %	1.7 %	1.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4675 ppm	0.4962 ppm	9.5877 ppm	0.5016 ppm	0.4976 ppm	0.5057 ppm	0.5050 ppm
Concentration per Run 1	0.4617 ppm	0.4954 ppm	9.4903 ppm	0.5018 ppm	0.4983 ppm	0.5063 ppm	0.5061 ppm
Concentration per Run 2	0.4708 ppm	0.4953 ppm	9.6535 ppm	0.5008 ppm	0.4973 ppm	0.5040 ppm	0.5026 ppm
Concentration per Run 3	0.4701 ppm	0.4978 ppm	9.6194 ppm	0.5022 ppm	0.4970 ppm	0.5069 ppm	0.5063 ppm
Recovery Percentage 1	93.503 %	99.233 %	95.877 %	100.319 %	99.513 %	101.139 %	100.997 %
Concentration RSD	1.1 %	0.3 %	0.9 %	0.1 %	0.1 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6762 ppm	0.4986 ppm	0.4708 ppm	0.4607 ppm	0.5043 ppm	0.4999 ppm	0.5107 ppm
Concentration per Run 1	5.6778 ppm	0.4990 ppm	0.4649 ppm	0.4617 ppm	0.5056 ppm	0.4998 ppm	0.5116 ppm
Concentration per Run 2	5.6679 ppm	0.4990 ppm	0.4747 ppm	0.4609 ppm	0.5038 ppm	0.4999 ppm	0.5101 ppm
Concentration per Run 3	5.6829 ppm	0.4978 ppm	0.4728 ppm	0.4595 ppm	0.5034 ppm	0.5001 ppm	0.5105 ppm
Recovery Percentage 1	108.118 %	99.715 %	94.161 %	92.136 %	100.858 %	99.982 %	102.149 %
Concentration RSD	0.1 %	0.1 %	1.1 %	0.2 %	0.2 %	0.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.9652 %	98.3675 %	100.1419 %	92.8408 %	102.1081 %	107.2786 %
Concentration per Run 1	105.8945 %	98.3341 %	100.1188 %	91.7546 %	102.0450 %	107.0268 %
Concentration per Run 2	104.5329 %	98.5346 %	100.2779 %	93.1218 %	102.2174 %	107.4484 %
Concentration per Run 3	104.4681 %	98.2337 %	100.0290 %	93.6459 %	102.0618 %	107.3607 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.1 %	1.1 %	0.1 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 5:09:05 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0075 ppm	-0.0003 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0127 ppm	-0.0010 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	-0.0009 ppm	0.0063 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0076 ppm
Concentration per Run 3	-0.0004 ppm	0.0036 ppm	0.0000 ppm	0.0013 ppm	-0.0002 ppm	0.0001 ppm	0.0010 ppm
Recovery Percentage 1	-6.314 %	7.506 %	-6.185 %	2.528 %	-0.631 %	1.680 %	-0.903 %
Concentration RSD	92.1 %	62.3 %	181.2 %	66.5 %	194.2 %	54.3 %	665.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0061 ppm	-0.0954 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm	-0.1320 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0063 ppm	-0.0839 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0067 ppm	-0.0704 ppm	0.0029 ppm
Recovery Percentage 1	1.395 %	-0.271 %	-1.191 %	-0.540 %	12.271 %	-3.817 %	2.234 %
Concentration RSD	18.1 %	373.4 %	107.1 %	99.3 %	11.0 %	33.9 %	46.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0013 ppm	0.0077 ppm	0.0006 ppm	0.0000 ppm	0.0021 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0069 ppm	0.0006 ppm	-0.0004 ppm	0.0027 ppm	0.0047 ppm
Concentration per Run 2	0.0007 ppm	0.0012 ppm	0.0071 ppm	0.0006 ppm	0.0002 ppm	0.0018 ppm	0.0032 ppm
Concentration per Run 3	0.0005 ppm	0.0014 ppm	0.0092 ppm	0.0006 ppm	0.0002 ppm	0.0018 ppm	-0.0014 ppm
Recovery Percentage 1	4.316 %	2.538 %	0.387 %	2.331 %	0.012 %	4.160 %	21.839 %
Concentration RSD	75.3 %	6.9 %	16.0 %	5.7 %	30,015.0 %	24.0 %	145.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0015 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm	-0.0019 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.0020 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	-0.0025 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 2	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	-0.0021 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 3	0.0016 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	0.0006 ppm	-0.0009 ppm
Recovery Percentage 1	0.294 %	-0.441 %	0.587 %	5.155 %	-9.396 %	4.240 %	-16.712 %
Concentration RSD	44.2 %	197.3 %	9.5 %	69.9 %	39.8 %	40.5 %	10.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.9274 %	99.4230 %	100.9339 %	87.7082 %	99.9169 %	104.0977 %
Concentration per Run 1	111.7899 %	99.7582 %	101.3816 %	88.2621 %	100.0186 %	103.9730 %
Concentration per Run 2	104.3872 %	99.2486 %	100.6897 %	86.6957 %	99.5194 %	103.8320 %
Concentration per Run 3	104.6052 %	99.2624 %	100.7303 %	88.1669 %	100.2126 %	104.4880 %
Recovery Percentage 1						
Concentration RSD	3.9 %	0.3 %	0.4 %	1.0 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-25 WG1935805
Analysis started at: 6/18/2024 5:33:12 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0406 ppm	-0.0002 ppm	0.0265 ppm	0.1055 ppm	0.0000 ppm	184.9243 ppm
Concentration per Run 1	-0.0011 ppm	0.0408 ppm	-0.0002 ppm	0.0259 ppm	0.1029 ppm	-0.0001 ppm	181.2298 ppm
Concentration per Run 2	-0.0004 ppm	0.0450 ppm	-0.0001 ppm	0.0269 ppm	0.1071 ppm	0.0000 ppm	187.2326 ppm
Concentration per Run 3	-0.0011 ppm	0.0359 ppm	-0.0005 ppm	0.0267 ppm	0.1066 ppm	0.0001 ppm	186.3104 ppm
Concentration RSD	46.1 %	11.3 %	80.0 %	2.0 %	2.2 %	837.2 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0054 ppm	0.2423 ppm	5.2179 ppm	4.3546 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0053 ppm	0.2370 ppm	5.1392 ppm	4.3386 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0055 ppm	0.2469 ppm	5.2653 ppm	4.3535 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0053 ppm	0.2431 ppm	5.2491 ppm	4.3718 ppm
Concentration RSD	80.7 %	10.6 %	77.6 %	2.3 %	2.1 %	1.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0613 ppm	0.0074 ppm	3.0571 ppm	0.0080 ppm	-0.0007 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0600 ppm	0.0072 ppm	2.9952 ppm	0.0080 ppm	0.0000 ppm	0.0007 ppm	-0.0036 ppm
Concentration per Run 2	0.0618 ppm	0.0077 ppm	3.0976 ppm	0.0079 ppm	-0.0014 ppm	0.0019 ppm	0.0018 ppm
Concentration per Run 3	0.0621 ppm	0.0071 ppm	3.0784 ppm	0.0081 ppm	-0.0007 ppm	-0.0008 ppm	0.0015 ppm
Concentration RSD	1.9 %	4.2 %	1.8 %	0.8 %	94.9 %	214.5 %	3,880.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.2875 ppm	-0.0008 ppm	0.4245 ppm	0.0021 ppm	-0.0025 ppm	0.0017 ppm	-0.0010 ppm
Concentration per Run 1	2.2813 ppm	-0.0012 ppm	0.4160 ppm	0.0019 ppm	-0.0021 ppm	0.0014 ppm	-0.0011 ppm
Concentration per Run 2	2.2915 ppm	-0.0008 ppm	0.4296 ppm	0.0021 ppm	-0.0018 ppm	0.0018 ppm	-0.0010 ppm
Concentration per Run 3	2.2898 ppm	-0.0004 ppm	0.4280 ppm	0.0023 ppm	-0.0035 ppm	0.0018 ppm	-0.0011 ppm
Concentration RSD	0.2 %	51.5 %	1.8 %	9.8 %	37.3 %	11.4 %	6.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.1488 %	94.8506 %	96.3772 %	106.3146 %	94.4742 %	103.2586 %
Concentration per Run 1	101.9215 %	94.4359 %	96.3591 %	111.8909 %	94.6920 %	103.1878 %
Concentration per Run 2	99.4813 %	94.8899 %	96.3476 %	105.9355 %	94.3632 %	103.4321 %
Concentration per Run 3	99.0436 %	95.2261 %	96.4247 %	101.1175 %	94.3675 %	103.1558 %
Concentration RSD	1.5 %	0.4 %	0.0 %	5.1 %	0.2 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-26 WG1935805
Analysis started at: 6/18/2024 5:39:27 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0011 ppm	0.0294 ppm	-0.0009 ppm	0.0327 ppm	0.1056 ppm	0.0000 ppm	173.7195 ppm
Concentration per Run 1	-0.0009 ppm	0.0257 ppm	-0.0016 ppm	0.0326 ppm	0.1008 ppm	0.0000 ppm	165.7370 ppm
Concentration per Run 2	-0.0008 ppm	0.0235 ppm	-0.0008 ppm	0.0333 ppm	0.1075 ppm	0.0000 ppm	177.0951 ppm
Concentration per Run 3	-0.0017 ppm	0.0390 ppm	-0.0001 ppm	0.0323 ppm	0.1085 ppm	0.0000 ppm	178.3265 ppm
Concentration RSD	45.9 %	28.5 %	88.9 %	1.7 %	4.0 %	475.3 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0026 ppm	0.0003 ppm	0.0012 ppm	0.0107 ppm	2.9265 ppm	4.0824 ppm
Concentration per Run 1	0.0001 ppm	0.0024 ppm	-0.0002 ppm	0.0012 ppm	0.0101 ppm	2.7980 ppm	4.0886 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	0.0009 ppm	0.0012 ppm	0.0121 ppm	2.9716 ppm	4.0889 ppm
Concentration per Run 3	0.0001 ppm	0.0027 ppm	0.0001 ppm	0.0012 ppm	0.0101 ppm	3.0098 ppm	4.0696 ppm
Concentration RSD	10.3 %	6.7 %	186.5 %	2.0 %	10.7 %	3.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2237 ppm	0.0030 ppm	1.9437 ppm	0.0114 ppm	0.0006 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 1	0.2140 ppm	0.0030 ppm	1.8534 ppm	0.0115 ppm	0.0008 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	0.2276 ppm	0.0030 ppm	1.9929 ppm	0.0114 ppm	0.0007 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.2294 ppm	0.0030 ppm	1.9846 ppm	0.0114 ppm	0.0003 ppm	-0.0007 ppm	0.0002 ppm
Concentration RSD	3.8 %	0.7 %	4.0 %	0.8 %	46.0 %	81.4 %	152.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4575 ppm	-0.0012 ppm	0.3043 ppm	0.0022 ppm	-0.0015 ppm	0.0014 ppm	0.0554 ppm
Concentration per Run 1	3.4600 ppm	-0.0010 ppm	0.2900 ppm	0.0023 ppm	-0.0026 ppm	0.0013 ppm	0.0554 ppm
Concentration per Run 2	3.4618 ppm	-0.0012 ppm	0.3103 ppm	0.0022 ppm	-0.0020 ppm	0.0016 ppm	0.0554 ppm
Concentration per Run 3	3.4506 ppm	-0.0013 ppm	0.3126 ppm	0.0022 ppm	0.0001 ppm	0.0014 ppm	0.0553 ppm
Concentration RSD	0.2 %	14.7 %	4.1 %	1.6 %	95.7 %	7.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.4087 %	95.9443 %	97.4799 %	94.3470 %	95.2992 %	103.4122 %
Concentration per Run 1	106.7472 %	95.6872 %	97.7162 %	95.8008 %	95.5704 %	103.2146 %
Concentration per Run 2	100.4543 %	95.9572 %	97.4337 %	94.0329 %	95.1421 %	103.2995 %
Concentration per Run 3	100.0245 %	96.1885 %	97.2897 %	93.2072 %	95.1850 %	103.7223 %
Concentration RSD	3.7 %	0.3 %	0.2 %	1.4 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-27 WG1935805
Analysis started at: 6/18/2024 5:45:41 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0243 ppm	-0.0001 ppm	0.0294 ppm	0.1075 ppm	0.0000 ppm	173.4224 ppm
Concentration per Run 1	-0.0015 ppm	0.0183 ppm	-0.0013 ppm	0.0295 ppm	0.1037 ppm	0.0000 ppm	167.0148 ppm
Concentration per Run 2	-0.0005 ppm	0.0257 ppm	0.0011 ppm	0.0291 ppm	0.1088 ppm	0.0000 ppm	175.4965 ppm
Concentration per Run 3	-0.0004 ppm	0.0289 ppm	0.0000 ppm	0.0295 ppm	0.1099 ppm	0.0000 ppm	177.7558 ppm
Concentration RSD	71.4 %	22.4 %	2,095.6 %	0.8 %	3.0 %	329.8 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0026 ppm	0.0003 ppm	0.0019 ppm	0.0638 ppm	3.6642 ppm	4.1626 ppm
Concentration per Run 1	0.0001 ppm	0.0027 ppm	0.0002 ppm	0.0019 ppm	0.0625 ppm	3.5138 ppm	4.1615 ppm
Concentration per Run 2	0.0001 ppm	0.0026 ppm	0.0002 ppm	0.0015 ppm	0.0635 ppm	3.6709 ppm	4.1764 ppm
Concentration per Run 3	0.0002 ppm	0.0025 ppm	0.0004 ppm	0.0021 ppm	0.0654 ppm	3.8077 ppm	4.1500 ppm
Concentration RSD	19.4 %	2.9 %	35.2 %	18.1 %	2.3 %	4.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2046 ppm	0.0034 ppm	2.3076 ppm	0.0129 ppm	-0.0002 ppm	0.0018 ppm	0.0005 ppm
Concentration per Run 1	0.1965 ppm	0.0036 ppm	2.2451 ppm	0.0129 ppm	-0.0001 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	0.2073 ppm	0.0034 ppm	2.3297 ppm	0.0129 ppm	-0.0002 ppm	0.0006 ppm	0.0031 ppm
Concentration per Run 3	0.2101 ppm	0.0033 ppm	2.3481 ppm	0.0128 ppm	-0.0002 ppm	0.0019 ppm	-0.0027 ppm
Concentration RSD	3.5 %	3.7 %	2.4 %	0.4 %	30.3 %	63.1 %	600.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3844 ppm	-0.0005 ppm	0.3215 ppm	0.0022 ppm	-0.0027 ppm	0.0012 ppm	0.0478 ppm
Concentration per Run 1	3.3882 ppm	-0.0002 ppm	0.3103 ppm	0.0022 ppm	-0.0022 ppm	0.0010 ppm	0.0478 ppm
Concentration per Run 2	3.3793 ppm	-0.0010 ppm	0.3250 ppm	0.0021 ppm	-0.0039 ppm	0.0014 ppm	0.0476 ppm
Concentration per Run 3	3.3858 ppm	-0.0003 ppm	0.3291 ppm	0.0022 ppm	-0.0020 ppm	0.0013 ppm	0.0479 ppm
Concentration RSD	0.1 %	86.4 %	3.1 %	2.2 %	39.3 %	18.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.1788 %	95.8087 %	96.7690 %	94.2974 %	94.7034 %	103.4008 %
Concentration per Run 1	106.4847 %	95.9403 %	96.9333 %	95.5608 %	94.7904 %	103.2949 %
Concentration per Run 2	102.0473 %	95.4917 %	96.7874 %	93.8598 %	94.9498 %	103.2396 %
Concentration per Run 3	101.0045 %	95.9940 %	96.5864 %	93.4715 %	94.3701 %	103.6678 %
Concentration RSD	2.8 %	0.3 %	0.2 %	1.2 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-28 WG1935805
Analysis started at: 6/18/2024 5:51:56 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.1127 ppm	-0.0009 ppm	0.0288 ppm	0.0968 ppm	0.0000 ppm	174.6805 ppm
Concentration per Run 1	-0.0010 ppm	0.1114 ppm	0.0005 ppm	0.0289 ppm	0.0950 ppm	-0.0001 ppm	172.1845 ppm
Concentration per Run 2	-0.0005 ppm	0.1140 ppm	-0.0017 ppm	0.0289 ppm	0.0980 ppm	0.0000 ppm	176.0075 ppm
Concentration per Run 3	-0.0012 ppm	0.1127 ppm	-0.0016 ppm	0.0287 ppm	0.0975 ppm	0.0000 ppm	175.8497 ppm
Concentration RSD	41.2 %	1.2 %	134.4 %	0.3 %	1.6 %	269.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0016 ppm	0.0004 ppm	0.0028 ppm	0.0049 ppm	4.0505 ppm	4.0760 ppm
Concentration per Run 1	0.0001 ppm	0.0018 ppm	0.0006 ppm	0.0025 ppm	0.0039 ppm	3.9738 ppm	4.0804 ppm
Concentration per Run 2	0.0001 ppm	0.0015 ppm	0.0005 ppm	0.0028 ppm	0.0050 ppm	4.0685 ppm	4.0801 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0001 ppm	0.0029 ppm	0.0059 ppm	4.1091 ppm	4.0675 ppm
Concentration RSD	47.1 %	9.8 %	68.9 %	7.3 %	20.8 %	1.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1697 ppm	0.0041 ppm	2.4607 ppm	0.0095 ppm	-0.0006 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run 1	0.1678 ppm	0.0042 ppm	2.4239 ppm	0.0095 ppm	-0.0006 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	0.1705 ppm	0.0040 ppm	2.4796 ppm	0.0092 ppm	-0.0007 ppm	0.0015 ppm	0.0015 ppm
Concentration per Run 3	0.1708 ppm	0.0040 ppm	2.4787 ppm	0.0098 ppm	-0.0006 ppm	-0.0003 ppm	0.0026 ppm
Concentration RSD	1.0 %	2.9 %	1.3 %	2.7 %	15.4 %	215.5 %	60.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0067 ppm	0.0002 ppm	0.3191 ppm	0.0018 ppm	-0.0033 ppm	0.0011 ppm	0.0126 ppm
Concentration per Run 1	3.0089 ppm	0.0001 ppm	0.3143 ppm	0.0020 ppm	-0.0033 ppm	0.0013 ppm	0.0125 ppm
Concentration per Run 2	3.0079 ppm	-0.0001 ppm	0.3220 ppm	0.0015 ppm	-0.0028 ppm	0.0011 ppm	0.0127 ppm
Concentration per Run 3	3.0033 ppm	0.0006 ppm	0.3210 ppm	0.0018 ppm	-0.0039 ppm	0.0010 ppm	0.0125 ppm
Concentration RSD	0.1 %	175.6 %	1.3 %	14.7 %	15.8 %	14.4 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.6531 %	95.6801 %	96.6077 %	91.9695 %	95.0397 %	103.6598 %
Concentration per Run 1	102.5432 %	95.5911 %	97.0324 %	91.1833 %	95.2664 %	103.4594 %
Concentration per Run 2	101.1560 %	95.7939 %	96.4600 %	92.1695 %	94.8469 %	103.6610 %
Concentration per Run 3	101.2601 %	95.6555 %	96.3307 %	92.5555 %	95.0057 %	103.8590 %
Concentration RSD	0.8 %	0.1 %	0.4 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-29 WG1935805
Analysis started at: 6/18/2024 5:58:12 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0382 ppm	-0.0010 ppm	0.0311 ppm	0.0943 ppm	0.0000 ppm	169.1786 ppm
Concentration per Run 1	-0.0015 ppm	0.0292 ppm	-0.0007 ppm	0.0312 ppm	0.0853 ppm	0.0000 ppm	153.6863 ppm
Concentration per Run 2	-0.0010 ppm	0.0380 ppm	-0.0001 ppm	0.0310 ppm	0.0976 ppm	0.0000 ppm	174.4139 ppm
Concentration per Run 3	-0.0001 ppm	0.0475 ppm	-0.0023 ppm	0.0311 ppm	0.0999 ppm	0.0000 ppm	179.4357 ppm
Concentration RSD	76.4 %	23.9 %	112.0 %	0.3 %	8.3 %	498.9 %	8.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0020 ppm	0.0004 ppm	0.0009 ppm	0.0119 ppm	3.8730 ppm	4.2679 ppm
Concentration per Run 1	0.0000 ppm	0.0020 ppm	0.0005 ppm	0.0007 ppm	0.0100 ppm	3.5155 ppm	4.2709 ppm
Concentration per Run 2	0.0001 ppm	0.0020 ppm	0.0005 ppm	0.0010 ppm	0.0133 ppm	4.0047 ppm	4.2715 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	0.0001 ppm	0.0011 ppm	0.0124 ppm	4.0988 ppm	4.2613 ppm
Concentration RSD	47.6 %	1.2 %	54.0 %	24.8 %	14.5 %	8.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1713 ppm	0.0042 ppm	2.2111 ppm	0.0105 ppm	0.0006 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.1557 ppm	0.0043 ppm	2.0156 ppm	0.0104 ppm	-0.0006 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.1760 ppm	0.0040 ppm	2.2770 ppm	0.0107 ppm	0.0012 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 3	0.1821 ppm	0.0041 ppm	2.3406 ppm	0.0106 ppm	0.0011 ppm	-0.0013 ppm	0.0008 ppm
Concentration RSD	8.1 %	4.0 %	7.8 %	1.4 %	183.9 %	176.6 %	12.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3085 ppm	-0.0008 ppm	0.3143 ppm	0.0021 ppm	-0.0024 ppm	0.0012 ppm	0.0147 ppm
Concentration per Run 1	3.3110 ppm	-0.0010 ppm	0.2851 ppm	0.0020 ppm	-0.0038 ppm	0.0014 ppm	0.0146 ppm
Concentration per Run 2	3.3064 ppm	-0.0008 ppm	0.3241 ppm	0.0022 ppm	-0.0023 ppm	0.0008 ppm	0.0148 ppm
Concentration per Run 3	3.3082 ppm	-0.0006 ppm	0.3337 ppm	0.0021 ppm	-0.0010 ppm	0.0014 ppm	0.0147 ppm
Concentration RSD	0.1 %	27.1 %	8.2 %	5.1 %	61.3 %	27.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.6345 %	95.7750 %	96.7418 %	97.9536 %	95.1246 %	103.1000 %
Concentration per Run 1	116.5509 %	95.7856 %	97.0998 %	102.3872 %	95.4542 %	103.2300 %
Concentration per Run 2	105.0403 %	95.8506 %	96.5205 %	97.2566 %	95.1047 %	103.1310 %
Concentration per Run 3	101.3124 %	95.6889 %	96.6052 %	94.2171 %	94.8149 %	102.9391 %
Concentration RSD	7.4 %	0.1 %	0.3 %	4.2 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-30 WG1935805
Analysis started at: 6/18/2024 6:04:28 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0294 ppm	-0.0005 ppm	0.0292 ppm	0.0962 ppm	0.0000 ppm	170.0712 ppm
Concentration per Run 1	-0.0007 ppm	0.0316 ppm	0.0000 ppm	0.0291 ppm	0.0899 ppm	-0.0001 ppm	159.0237 ppm
Concentration per Run 2	-0.0005 ppm	0.0243 ppm	-0.0015 ppm	0.0291 ppm	0.0990 ppm	0.0000 ppm	175.0393 ppm
Concentration per Run 3	-0.0005 ppm	0.0323 ppm	0.0000 ppm	0.0293 ppm	0.0998 ppm	-0.0001 ppm	176.1505 ppm
Concentration RSD	23.4 %	15.0 %	171.7 %	0.4 %	5.7 %	110.9 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0019 ppm	0.0002 ppm	0.0012 ppm	0.0052 ppm	4.1585 ppm	4.1615 ppm
Concentration per Run 1	0.0000 ppm	0.0018 ppm	0.0003 ppm	0.0014 ppm	0.0064 ppm	3.8690 ppm	4.1550 ppm
Concentration per Run 2	0.0001 ppm	0.0020 ppm	0.0001 ppm	0.0009 ppm	0.0047 ppm	4.2737 ppm	4.1691 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0002 ppm	0.0012 ppm	0.0046 ppm	4.3327 ppm	4.1604 ppm
Concentration RSD	63.6 %	4.6 %	37.3 %	24.1 %	18.7 %	6.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1676 ppm	0.0036 ppm	2.5359 ppm	0.0103 ppm	0.0004 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 1	0.1570 ppm	0.0036 ppm	2.3808 ppm	0.0106 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.1717 ppm	0.0035 ppm	2.6140 ppm	0.0102 ppm	0.0012 ppm	0.0016 ppm	-0.0016 ppm
Concentration per Run 3	0.1742 ppm	0.0037 ppm	2.6129 ppm	0.0101 ppm	-0.0002 ppm	0.0001 ppm	-0.0020 ppm
Concentration RSD	5.6 %	3.2 %	5.3 %	2.6 %	177.3 %	100.4 %	120.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0904 ppm	-0.0008 ppm	0.3150 ppm	0.0020 ppm	-0.0027 ppm	0.0012 ppm	0.0168 ppm
Concentration per Run 1	3.0973 ppm	-0.0011 ppm	0.2947 ppm	0.0020 ppm	-0.0008 ppm	0.0012 ppm	0.0168 ppm
Concentration per Run 2	3.0869 ppm	-0.0008 ppm	0.3239 ppm	0.0020 ppm	-0.0031 ppm	0.0011 ppm	0.0167 ppm
Concentration per Run 3	3.0870 ppm	-0.0006 ppm	0.3264 ppm	0.0020 ppm	-0.0040 ppm	0.0014 ppm	0.0168 ppm
Concentration RSD	0.2 %	26.8 %	5.6 %	1.1 %	61.3 %	10.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8172 %	96.4013 %	97.0704 %	95.3131 %	95.2286 %	103.3041 %
Concentration per Run 1	109.5752 %	96.2859 %	97.1251 %	97.5670 %	95.1283 %	103.3508 %
Concentration per Run 2	101.3929 %	96.2045 %	96.8455 %	94.6810 %	95.0897 %	102.9685 %
Concentration per Run 3	100.4834 %	96.7135 %	97.2406 %	93.6912 %	95.4677 %	103.5929 %
Concentration RSD	4.8 %	0.3 %	0.2 %	2.1 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432741-31 WG1935805
Analysis started at: 6/18/2024 6:10:44 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0375 ppm	-0.0007 ppm	0.0330 ppm	0.1084 ppm	0.0000 ppm	173.6450 ppm
Concentration per Run 1	-0.0008 ppm	0.0309 ppm	-0.0018 ppm	0.0329 ppm	0.1054 ppm	0.0000 ppm	169.1368 ppm
Concentration per Run 2	-0.0012 ppm	0.0317 ppm	-0.0006 ppm	0.0330 ppm	0.1091 ppm	0.0000 ppm	175.2261 ppm
Concentration per Run 3	0.0002 ppm	0.0500 ppm	0.0002 ppm	0.0331 ppm	0.1107 ppm	0.0000 ppm	176.5722 ppm
Concentration RSD	115.6 %	28.7 %	134.6 %	0.3 %	2.5 %	243.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0029 ppm	0.0002 ppm	0.0003 ppm	0.0730 ppm	4.5978 ppm	4.2013 ppm
Concentration per Run 1	0.0000 ppm	0.0030 ppm	0.0002 ppm	0.0002 ppm	0.0737 ppm	4.4854 ppm	4.2025 ppm
Concentration per Run 2	0.0001 ppm	0.0028 ppm	0.0002 ppm	0.0004 ppm	0.0720 ppm	4.5909 ppm	4.1979 ppm
Concentration per Run 3	0.0000 ppm	0.0028 ppm	0.0003 ppm	0.0002 ppm	0.0734 ppm	4.7172 ppm	4.2034 ppm
Concentration RSD	53.4 %	3.1 %	33.4 %	45.4 %	1.3 %	2.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2087 ppm	0.0034 ppm	2.6394 ppm	0.0128 ppm	0.0004 ppm	0.0016 ppm	-0.0003 ppm
Concentration per Run 1	0.2028 ppm	0.0032 ppm	2.5706 ppm	0.0123 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 2	0.2098 ppm	0.0036 ppm	2.6609 ppm	0.0128 ppm	0.0005 ppm	0.0030 ppm	-0.0011 ppm
Concentration per Run 3	0.2135 ppm	0.0034 ppm	2.6867 ppm	0.0133 ppm	0.0004 ppm	0.0017 ppm	-0.0006 ppm
Concentration RSD	2.6 %	6.2 %	2.3 %	3.9 %	23.8 %	92.9 %	277.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.8244 ppm	-0.0008 ppm	0.3163 ppm	0.0019 ppm	-0.0021 ppm	0.0010 ppm	0.0573 ppm
Concentration per Run 1	3.8243 ppm	-0.0008 ppm	0.3081 ppm	0.0018 ppm	-0.0027 ppm	0.0008 ppm	0.0574 ppm
Concentration per Run 2	3.8426 ppm	-0.0010 ppm	0.3191 ppm	0.0020 ppm	-0.0018 ppm	0.0013 ppm	0.0575 ppm
Concentration per Run 3	3.8061 ppm	-0.0006 ppm	0.3217 ppm	0.0020 ppm	-0.0017 ppm	0.0009 ppm	0.0570 ppm
Concentration RSD	0.5 %	26.8 %	2.3 %	6.4 %	27.2 %	30.7 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.6756 %	96.3988 %	97.6618 %	94.1665 %	95.6176 %	103.7962 %
Concentration per Run 1	104.6862 %	96.2675 %	97.6042 %	94.3125 %	95.4638 %	103.8022 %
Concentration per Run 2	101.9846 %	96.7694 %	97.5831 %	94.4907 %	95.3528 %	104.0094 %
Concentration per Run 3	101.3559 %	96.1594 %	97.7981 %	93.6964 %	96.0361 %	103.5771 %
Concentration RSD	1.7 %	0.3 %	0.1 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:16:57 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4954 ppm	0.5011 ppm	0.4851 ppm	0.4885 ppm	0.4766 ppm	0.4638 ppm	0.4914 ppm
Concentration per Run 1	0.4949 ppm	0.4838 ppm	0.4871 ppm	0.4902 ppm	0.4551 ppm	0.4434 ppm	0.4649 ppm
Concentration per Run 2	0.4967 ppm	0.5040 ppm	0.4854 ppm	0.4890 ppm	0.4852 ppm	0.4723 ppm	0.5040 ppm
Concentration per Run 3	0.4947 ppm	0.5155 ppm	0.4828 ppm	0.4862 ppm	0.4893 ppm	0.4756 ppm	0.5054 ppm
Recovery Percentage 1	99.087 %	100.214 %	97.020 %	97.694 %	95.315 %	92.752 %	98.288 %
Concentration RSD	0.2 %	3.2 %	0.5 %	0.4 %	3.9 %	3.8 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4895 ppm	0.4987 ppm	0.5042 ppm	0.4978 ppm	0.4753 ppm	4.6778 ppm	0.4671 ppm
Concentration per Run 1	0.4906 ppm	0.4999 ppm	0.5032 ppm	0.4973 ppm	0.4579 ppm	4.4512 ppm	0.4670 ppm
Concentration per Run 2	0.4896 ppm	0.4990 ppm	0.5047 ppm	0.4985 ppm	0.4805 ppm	4.7617 ppm	0.4670 ppm
Concentration per Run 3	0.4882 ppm	0.4973 ppm	0.5047 ppm	0.4977 ppm	0.4876 ppm	4.8203 ppm	0.4672 ppm
Recovery Percentage 1	97.891 %	99.747 %	100.839 %	99.567 %	95.068 %	93.555 %	93.415 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %	3.3 %	4.2 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4636 ppm	0.4877 ppm	9.3660 ppm	0.5006 ppm	0.4969 ppm	0.5036 ppm	0.5031 ppm
Concentration per Run 1	0.4426 ppm	0.4868 ppm	8.9433 ppm	0.5012 ppm	0.4986 ppm	0.5053 ppm	0.5021 ppm
Concentration per Run 2	0.4725 ppm	0.4880 ppm	9.5416 ppm	0.5013 ppm	0.4964 ppm	0.5037 ppm	0.5030 ppm
Concentration per Run 3	0.4756 ppm	0.4884 ppm	9.6133 ppm	0.4992 ppm	0.4958 ppm	0.5018 ppm	0.5041 ppm
Recovery Percentage 1	92.717 %	97.547 %	93.660 %	100.113 %	99.386 %	100.719 %	100.611 %
Concentration RSD	3.9 %	0.2 %	3.9 %	0.2 %	0.3 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6496 ppm	0.4925 ppm	0.4623 ppm	0.4620 ppm	0.4983 ppm	0.4978 ppm	0.5065 ppm
Concentration per Run 1	5.6638 ppm	0.4937 ppm	0.4423 ppm	0.4616 ppm	0.4991 ppm	0.4975 ppm	0.5076 ppm
Concentration per Run 2	5.6531 ppm	0.4926 ppm	0.4707 ppm	0.4619 ppm	0.4995 ppm	0.4980 ppm	0.5068 ppm
Concentration per Run 3	5.6319 ppm	0.4910 ppm	0.4740 ppm	0.4623 ppm	0.4964 ppm	0.4981 ppm	0.5051 ppm
Recovery Percentage 1	107.612 %	98.491 %	92.465 %	92.392 %	99.670 %	99.568 %	101.296 %
Concentration RSD	0.3 %	0.3 %	3.8 %	0.1 %	0.3 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.1791 %	99.6780 %	101.7293 %	96.4679 %	102.8583 %	107.6876 %
Concentration per Run 1	111.9964 %	99.8150 %	101.9119 %	97.9837 %	102.7378 %	107.7736 %
Concentration per Run 2	105.4729 %	99.6536 %	101.6981 %	95.9952 %	102.7809 %	107.8356 %
Concentration per Run 3	104.0682 %	99.5653 %	101.5778 %	95.4248 %	103.0563 %	107.4535 %
Recovery Percentage 1						
Concentration RSD	3.9 %	0.1 %	0.2 %	1.4 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:23:01 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	0.0088 ppm	-0.0010 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 1	-0.0012 ppm	0.0101 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 2	-0.0007 ppm	0.0079 ppm	-0.0013 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	-0.0057 ppm
Concentration per Run 3	-0.0003 ppm	0.0083 ppm	-0.0010 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0041 ppm
Recovery Percentage 1	-10.429 %	8.760 %	-20.695 %	-0.948 %	-0.582 %	2.153 %	1.791 %
Concentration RSD	56.7 %	13.5 %	20.3 %	64.0 %	338.8 %	101.0 %	373.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0057 ppm	-0.0876 ppm	0.0012 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0006 ppm	0.0051 ppm	-0.0971 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0049 ppm	-0.0973 ppm	0.0027 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0072 ppm	-0.0682 ppm	0.0001 ppm
Recovery Percentage 1	2.049 %	-0.340 %	-3.549 %	3.406 %	11.456 %	-3.502 %	1.176 %
Concentration RSD	27.8 %	95.3 %	65.9 %	65.6 %	22.1 %	19.1 %	112.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0012 ppm	-0.0084 ppm	0.0004 ppm	-0.0002 ppm	0.0017 ppm	0.0017 ppm
Concentration per Run 1	0.0002 ppm	0.0014 ppm	0.0018 ppm	0.0005 ppm	-0.0003 ppm	0.0023 ppm	0.0016 ppm
Concentration per Run 2	0.0005 ppm	0.0013 ppm	-0.0204 ppm	0.0003 ppm	0.0006 ppm	0.0025 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0008 ppm	-0.0067 ppm	0.0003 ppm	-0.0009 ppm	0.0005 ppm	0.0035 ppm
Recovery Percentage 1	3.366 %	2.355 %	-0.421 %	1.424 %	-2.081 %	3.453 %	16.691 %
Concentration RSD	46.5 %	27.6 %	132.8 %	25.3 %	360.6 %	64.2 %	109.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0007 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.0012 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0008 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0007 ppm
Recovery Percentage 1	0.235 %	-0.006 %	0.871 %	5.295 %	-3.516 %	1.631 %	-15.154 %
Concentration RSD	33.0 %	9,858.5 %	183.5 %	18.5 %	96.2 %	120.8 %	5.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.3200 %	100.7824 %	102.5167 %	86.7157 %	100.6434 %	103.6608 %
Concentration per Run 1	108.2111 %	100.8309 %	103.0631 %	85.9801 %	100.8752 %	103.6719 %
Concentration per Run 2	104.2771 %	100.7355 %	102.2957 %	86.7367 %	100.3106 %	103.5442 %
Concentration per Run 3	103.4719 %	100.7809 %	102.1914 %	87.4304 %	100.7445 %	103.7663 %
Recovery Percentage 1						
Concentration RSD	2.4 %	0.0 %	0.5 %	0.8 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935663-1 WG1935663
Analysis started at: 6/18/2024 6:36:28 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0168 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0341 ppm
Concentration per Run 1	-0.0008 ppm	0.0163 ppm	0.0011 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0340 ppm
Concentration per Run 2	-0.0008 ppm	0.0221 ppm	0.0007 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0342 ppm
Concentration per Run 3	-0.0011 ppm	0.0121 ppm	-0.0009 ppm	-0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0342 ppm
Recovery Percentage 1	-12.964 %	16.825 %	5.852 %	-1.586 %	1.827 %	0.460 %	34.130 %
Concentration RSD	20.9 %	30.0 %	355.8 %	23.3 %	143.9 %	79.9 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0005 ppm	0.0298 ppm	-0.1207 ppm	0.0062 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0312 ppm	-0.0919 ppm	0.0060 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0007 ppm	0.0312 ppm	-0.1356 ppm	0.0068 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0005 ppm	0.0270 ppm	-0.1344 ppm	0.0059 ppm
Recovery Percentage 1	0.252 %	-0.724 %	8.034 %	4.893 %	59.573 %	-4.826 %	6.204 %
Concentration RSD	234.3 %	6.9 %	9.4 %	40.9 %	8.2 %	20.6 %	7.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	-0.0001 ppm	0.0279 ppm	0.0013 ppm	0.0008 ppm	0.0020 ppm	0.0002 ppm
Concentration per Run 1	0.0016 ppm	-0.0004 ppm	0.0187 ppm	0.0013 ppm	0.0008 ppm	0.0031 ppm	-0.0004 ppm
Concentration per Run 2	0.0019 ppm	-0.0002 ppm	0.0344 ppm	0.0012 ppm	0.0013 ppm	0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	0.0003 ppm	0.0306 ppm	0.0014 ppm	0.0002 ppm	0.0014 ppm	0.0008 ppm
Recovery Percentage 1	16.891 %	-0.189 %	1.395 %	5.114 %	7.523 %	4.051 %	1.918 %
Concentration RSD	12.9 %	363.4 %	29.5 %	8.4 %	74.8 %	44.3 %	306.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0072 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 1	0.0064 ppm	0.0009 ppm	-0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 2	0.0071 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0015 ppm	0.0004 ppm	0.0025 ppm
Concentration per Run 3	0.0082 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm
Recovery Percentage 1	1.446 %	0.562 %	0.581 %	4.903 %	-3.459 %	1.296 %	47.852 %
Concentration RSD	13.0 %	201.3 %	277.0 %	36.8 %	103.2 %	247.3 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.5246 %	100.3089 %	101.8598 %	107.9807 %	102.3685 %	108.3388 %
Concentration per Run 1	103.4872 %	100.1097 %	101.9136 %	112.3834 %	102.8844 %	108.4789 %
Concentration per Run 2	102.2313 %	100.4081 %	101.6895 %	107.6100 %	102.0092 %	108.2248 %
Concentration per Run 3	101.8554 %	100.4088 %	101.9763 %	103.9488 %	102.2118 %	108.3126 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.1 %	3.9 %	0.4 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935663-2D2 WG1935663
Analysis started at: 6/18/2024 6:42:46 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3010 ppm	15.4207 ppm	1.1143 ppm	0.8554 ppm	0.9390 ppm	0.5305 ppm	16.7563 ppm
Concentration per Run 1	0.3009 ppm	14.5935 ppm	1.1175 ppm	0.8567 ppm	0.8873 ppm	0.5019 ppm	15.8918 ppm
Concentration per Run 2	0.3014 ppm	15.7765 ppm	1.1136 ppm	0.8569 ppm	0.9621 ppm	0.5434 ppm	17.1652 ppm
Concentration per Run 3	0.3006 ppm	15.8921 ppm	1.1119 ppm	0.8527 ppm	0.9677 ppm	0.5462 ppm	17.2121 ppm
Concentration RSD	0.1 %	4.7 %	0.3 %	0.3 %	4.8 %	4.7 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.7530 ppm	0.2999 ppm	0.6761 ppm	0.7697 ppm	18.3192 ppm	3.3319 ppm	5.0155 ppm
Concentration per Run 1	0.7544 ppm	0.3007 ppm	0.6767 ppm	0.7721 ppm	17.3238 ppm	3.1389 ppm	5.0178 ppm
Concentration per Run 2	0.7543 ppm	0.3006 ppm	0.6775 ppm	0.7708 ppm	18.7472 ppm	3.3953 ppm	5.0209 ppm
Concentration per Run 3	0.7502 ppm	0.2985 ppm	0.6742 ppm	0.7661 ppm	18.8865 ppm	3.4614 ppm	5.0078 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.4 %	4.7 %	5.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6922 ppm	0.5059 ppm	5.8874 ppm	1.1472 ppm	0.3343 ppm	0.8047 ppm	0.6253 ppm
Concentration per Run 1	1.6013 ppm	0.5044 ppm	5.5587 ppm	1.1491 ppm	0.3347 ppm	0.8060 ppm	0.6256 ppm
Concentration per Run 2	1.7351 ppm	0.5068 ppm	6.0256 ppm	1.1494 ppm	0.3355 ppm	0.8058 ppm	0.6275 ppm
Concentration per Run 3	1.7401 ppm	0.5066 ppm	6.0781 ppm	1.1432 ppm	0.3327 ppm	0.8024 ppm	0.6229 ppm
Concentration RSD	4.7 %	0.3 %	4.9 %	0.3 %	0.4 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.8833 ppm	0.2740 ppm	0.4195 ppm	0.9657 ppm	0.7317 ppm	0.3793 ppm	0.6143 ppm
Concentration per Run 1	2.8930 ppm	0.2737 ppm	0.3968 ppm	0.9686 ppm	0.7337 ppm	0.3794 ppm	0.6152 ppm
Concentration per Run 2	2.9130 ppm	0.2748 ppm	0.4297 ppm	0.9654 ppm	0.7327 ppm	0.3801 ppm	0.6160 ppm
Concentration per Run 3	2.8438 ppm	0.2733 ppm	0.4320 ppm	0.9630 ppm	0.7288 ppm	0.3784 ppm	0.6118 ppm
Concentration RSD	1.2 %	0.3 %	4.7 %	0.3 %	0.4 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.9179 %	105.6176 %	107.4013 %	95.0294 %	102.5201 %	107.4719 %
Concentration per Run 1	120.3835 %	105.9529 %	107.5005 %	96.0153 %	102.4808 %	107.5095 %
Concentration per Run 2	112.4166 %	105.2572 %	107.4411 %	94.2865 %	102.2645 %	107.3279 %
Concentration per Run 3	111.9536 %	105.6427 %	107.2624 %	94.7865 %	102.8149 %	107.5784 %
Concentration RSD	4.1 %	0.3 %	0.1 %	0.9 %	0.3 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935663-3D2 WG1935663
Analysis started at: 6/18/2024 6:48:47 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3025 ppm	15.2919 ppm	1.1119 ppm	0.8466 ppm	0.9765 ppm	0.5060 ppm	16.1267 ppm
Concentration per Run 1	0.3034 ppm	14.4100 ppm	1.1178 ppm	0.8473 ppm	0.9190 ppm	0.4763 ppm	15.1581 ppm
Concentration per Run 2	0.3026 ppm	15.6063 ppm	1.1062 ppm	0.8460 ppm	0.9961 ppm	0.5163 ppm	16.4553 ppm
Concentration per Run 3	0.3016 ppm	15.8594 ppm	1.1118 ppm	0.8466 ppm	1.0145 ppm	0.5255 ppm	16.7669 ppm
Concentration RSD	0.3 %	5.1 %	0.5 %	0.1 %	5.2 %	5.2 %	5.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.7525 ppm	0.2927 ppm	0.6445 ppm	0.7368 ppm	18.8064 ppm	3.3766 ppm	5.0367 ppm
Concentration per Run 1	0.7530 ppm	0.2930 ppm	0.6464 ppm	0.7364 ppm	17.6913 ppm	3.1456 ppm	5.0492 ppm
Concentration per Run 2	0.7524 ppm	0.2926 ppm	0.6429 ppm	0.7377 ppm	19.1733 ppm	3.4509 ppm	5.0423 ppm
Concentration per Run 3	0.7521 ppm	0.2925 ppm	0.6442 ppm	0.7364 ppm	19.5546 ppm	3.5334 ppm	5.0187 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	5.2 %	6.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6741 ppm	0.4837 ppm	5.8968 ppm	1.1130 ppm	0.3376 ppm	0.7301 ppm	0.6209 ppm
Concentration per Run 1	1.5741 ppm	0.4816 ppm	5.5533 ppm	1.1143 ppm	0.3378 ppm	0.7310 ppm	0.6206 ppm
Concentration per Run 2	1.7105 ppm	0.4840 ppm	6.0255 ppm	1.1125 ppm	0.3380 ppm	0.7298 ppm	0.6225 ppm
Concentration per Run 3	1.7376 ppm	0.4855 ppm	6.1118 ppm	1.1123 ppm	0.3370 ppm	0.7296 ppm	0.6196 ppm
Concentration RSD	5.2 %	0.4 %	5.1 %	0.1 %	0.2 %	0.1 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.5914 ppm	0.2731 ppm	0.4186 ppm	1.0085 ppm	0.7531 ppm	0.3675 ppm	0.6033 ppm
Concentration per Run 1	4.6382 ppm	0.2728 ppm	0.3944 ppm	1.0065 ppm	0.7526 ppm	0.3688 ppm	0.6038 ppm
Concentration per Run 2	4.5814 ppm	0.2734 ppm	0.4271 ppm	1.0055 ppm	0.7556 ppm	0.3674 ppm	0.6032 ppm
Concentration per Run 3	4.5546 ppm	0.2732 ppm	0.4344 ppm	1.0135 ppm	0.7510 ppm	0.3663 ppm	0.6030 ppm
Concentration RSD	0.9 %	0.1 %	5.1 %	0.4 %	0.3 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	114.7183 %	105.9854 %	107.6554 %	95.6925 %	102.0145 %	106.9685 %
Concentration per Run 1	120.8500 %	105.4323 %	107.8222 %	97.0515 %	101.8848 %	106.3552 %
Concentration per Run 2	112.2040 %	106.4290 %	107.5985 %	94.7637 %	101.9606 %	107.2508 %
Concentration per Run 3	111.1009 %	106.0948 %	107.5456 %	95.2623 %	102.1982 %	107.2997 %
Concentration RSD	4.7 %	0.5 %	0.1 %	1.3 %	0.2 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2432805-02D2 WG1935663
Analysis started at: 6/18/2024 6:54:48 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0010 ppm	86.2786 ppm	0.0710 ppm	0.0072 ppm	0.3131 ppm	0.0025 ppm	22.8265 ppm
Concentration per Run 1	0.0008 ppm	85.9483 ppm	0.0712 ppm	0.0071 ppm	0.3120 ppm	0.0025 ppm	22.7210 ppm
Concentration per Run 2	0.0015 ppm	86.7129 ppm	0.0712 ppm	0.0078 ppm	0.3146 ppm	0.0024 ppm	22.9312 ppm
Concentration per Run 3	0.0007 ppm	86.1746 ppm	0.0706 ppm	0.0068 ppm	0.3126 ppm	0.0025 ppm	22.8273 ppm
Concentration RSD	40.5 %	0.5 %	0.5 %	7.2 %	0.4 %	2.0 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0792 ppm	0.1786 ppm	0.3317 ppm	123.8881 ppm	5.4879 ppm	31.4480 ppm
Concentration per Run 1	0.0040 ppm	0.0792 ppm	0.1781 ppm	0.3318 ppm	123.3396 ppm	5.4660 ppm	31.4183 ppm
Concentration per Run 2	0.0040 ppm	0.0794 ppm	0.1789 ppm	0.3313 ppm	124.4909 ppm	5.5193 ppm	31.3942 ppm
Concentration per Run 3	0.0040 ppm	0.0790 ppm	0.1789 ppm	0.3321 ppm	123.8337 ppm	5.4785 ppm	31.5315 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.1 %	0.5 %	0.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.6505 ppm	0.0055 ppm	0.6508 ppm	0.1362 ppm	0.7306 ppm	0.0093 ppm	0.0045 ppm
Concentration per Run 1	1.6431 ppm	0.0055 ppm	0.6454 ppm	0.1361 ppm	0.7301 ppm	0.0091 ppm	0.0027 ppm
Concentration per Run 2	1.6623 ppm	0.0057 ppm	0.6589 ppm	0.1362 ppm	0.7311 ppm	0.0108 ppm	0.0025 ppm
Concentration per Run 3	1.6462 ppm	0.0054 ppm	0.6479 ppm	0.1363 ppm	0.7306 ppm	0.0080 ppm	0.0081 ppm
Concentration RSD	0.6 %	2.4 %	1.1 %	0.1 %	0.1 %	15.2 %	71.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.0615 ppm	0.0206 ppm	0.0804 ppm	3.9846 ppm	0.0011 ppm	0.3016 ppm	0.6435 ppm
Concentration per Run 1	6.0648 ppm	0.0207 ppm	0.0801 ppm	3.9804 ppm	0.0017 ppm	0.3016 ppm	0.6436 ppm
Concentration per Run 2	6.0645 ppm	0.0205 ppm	0.0808 ppm	3.9871 ppm	0.0013 ppm	0.3013 ppm	0.6442 ppm
Concentration per Run 3	6.0552 ppm	0.0207 ppm	0.0804 ppm	3.9863 ppm	0.0004 ppm	0.3018 ppm	0.6426 ppm
Concentration RSD	0.1 %	0.7 %	0.4 %	0.1 %	61.7 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	128.4768 %	121.1205 %	123.4076 %	100.0011 %	101.2448 %	108.8103 %
Concentration per Run 1	128.8720 %	120.9633 %	123.3727 %	100.3137 %	101.3347 %	108.7617 %
Concentration per Run 2	127.8087 %	121.0312 %	123.5017 %	99.4330 %	101.1774 %	108.8030 %
Concentration per Run 3	128.7498 %	121.3670 %	123.3483 %	100.2567 %	101.2221 %	108.8664 %
Concentration RSD	0.5 %	0.2 %	0.1 %	0.5 %	0.1 %	0.0 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2432808-02D2 WG1935663
Analysis started at: 6/18/2024 7:00:55 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	92.7068 ppm	0.0731 ppm	0.0124 ppm	0.3659 ppm	0.0029 ppm	31.5129 ppm
Concentration per Run 1	0.0032 ppm	92.2114 ppm	0.0743 ppm	0.0125 ppm	0.3645 ppm	0.0029 ppm	31.3013 ppm
Concentration per Run 2	0.0025 ppm	93.1102 ppm	0.0727 ppm	0.0123 ppm	0.3670 ppm	0.0029 ppm	31.6594 ppm
Concentration per Run 3	0.0031 ppm	92.7989 ppm	0.0723 ppm	0.0123 ppm	0.3663 ppm	0.0030 ppm	31.5778 ppm
Concentration RSD	12.2 %	0.5 %	1.4 %	0.7 %	0.4 %	1.9 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0053 ppm	0.0852 ppm	0.1776 ppm	0.3167 ppm	152.8952 ppm	7.7738 ppm	34.8085 ppm
Concentration per Run 1	0.0053 ppm	0.0851 ppm	0.1778 ppm	0.3173 ppm	151.8419 ppm	7.7478 ppm	34.8106 ppm
Concentration per Run 2	0.0053 ppm	0.0852 ppm	0.1771 ppm	0.3166 ppm	153.5211 ppm	7.7990 ppm	34.8161 ppm
Concentration per Run 3	0.0053 ppm	0.0854 ppm	0.1778 ppm	0.3164 ppm	153.3226 ppm	7.7748 ppm	34.7989 ppm
Concentration RSD	0.9 %	0.2 %	0.2 %	0.1 %	0.6 %	0.3 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.2436 ppm	0.0094 ppm	1.9488 ppm	0.1436 ppm	0.5690 ppm	0.0150 ppm	0.0049 ppm
Concentration per Run 1	2.2278 ppm	0.0092 ppm	1.9567 ppm	0.1437 ppm	0.5696 ppm	0.0163 ppm	0.0064 ppm
Concentration per Run 2	2.2534 ppm	0.0097 ppm	1.9532 ppm	0.1437 ppm	0.5682 ppm	0.0139 ppm	0.0019 ppm
Concentration per Run 3	2.2495 ppm	0.0093 ppm	1.9365 ppm	0.1434 ppm	0.5691 ppm	0.0149 ppm	0.0065 ppm
Concentration RSD	0.6 %	2.6 %	0.6 %	0.1 %	0.1 %	8.1 %	54.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.1052 ppm	0.0175 ppm	0.1142 ppm	4.5777 ppm	0.0030 ppm	0.2684 ppm	0.6269 ppm
Concentration per Run 1	9.0772 ppm	0.0176 ppm	0.1135 ppm	4.5727 ppm	0.0030 ppm	0.2679 ppm	0.6267 ppm
Concentration per Run 2	9.1013 ppm	0.0173 ppm	0.1146 ppm	4.5787 ppm	0.0017 ppm	0.2687 ppm	0.6261 ppm
Concentration per Run 3	9.1370 ppm	0.0175 ppm	0.1145 ppm	4.5817 ppm	0.0042 ppm	0.2687 ppm	0.6280 ppm
Concentration RSD	0.3 %	1.0 %	0.5 %	0.1 %	41.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	124.9630 %	117.9560 %	119.7828 %	100.0482 %	100.3825 %	108.4251 %
Concentration per Run 1	125.6897 %	117.8148 %	119.6975 %	100.6110 %	100.4005 %	108.4647 %
Concentration per Run 2	124.7522 %	117.9716 %	119.7078 %	100.0932 %	100.4408 %	108.5379 %
Concentration per Run 3	124.4471 %	118.0815 %	119.9430 %	99.4404 %	100.3062 %	108.2727 %
Concentration RSD	0.5 %	0.1 %	0.1 %	0.6 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2432843-01D2 WG1935663
Analysis started at: 6/18/2024 7:07:03 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	86.4228 ppm	0.0834 ppm	0.1968 ppm	0.2486 ppm	0.0025 ppm	21.2192 ppm
Concentration per Run 1	0.0002 ppm	86.8936 ppm	0.0849 ppm	0.1969 ppm	0.2498 ppm	0.0026 ppm	21.3074 ppm
Concentration per Run 2	0.0005 ppm	86.5015 ppm	0.0827 ppm	0.1956 ppm	0.2486 ppm	0.0026 ppm	21.2461 ppm
Concentration per Run 3	0.0004 ppm	85.8732 ppm	0.0824 ppm	0.1979 ppm	0.2473 ppm	0.0024 ppm	21.1042 ppm
Concentration RSD	46.1 %	0.6 %	1.6 %	0.6 %	0.5 %	2.7 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0033 ppm	0.0544 ppm	0.2038 ppm	0.1926 ppm	151.1225 ppm	17.6404 ppm	41.4185 ppm
Concentration per Run 1	0.0033 ppm	0.0541 ppm	0.2037 ppm	0.1927 ppm	151.9952 ppm	17.7724 ppm	41.2711 ppm
Concentration per Run 2	0.0033 ppm	0.0541 ppm	0.2040 ppm	0.1933 ppm	151.1359 ppm	17.6483 ppm	41.4494 ppm
Concentration per Run 3	0.0033 ppm	0.0549 ppm	0.2037 ppm	0.1917 ppm	150.2363 ppm	17.5005 ppm	41.5352 ppm
Concentration RSD	0.3 %	0.8 %	0.1 %	0.4 %	0.6 %	0.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.9199 ppm	0.0127 ppm	9.1126 ppm	0.1305 ppm	0.4556 ppm	0.0093 ppm	0.0061 ppm
Concentration per Run 1	1.9321 ppm	0.0127 ppm	9.1683 ppm	0.1307 ppm	0.4553 ppm	0.0102 ppm	0.0072 ppm
Concentration per Run 2	1.9213 ppm	0.0127 ppm	9.1183 ppm	0.1298 ppm	0.4538 ppm	0.0090 ppm	0.0033 ppm
Concentration per Run 3	1.9063 ppm	0.0128 ppm	9.0512 ppm	0.1310 ppm	0.4577 ppm	0.0087 ppm	0.0078 ppm
Concentration RSD	0.7 %	0.5 %	0.6 %	0.5 %	0.4 %	8.9 %	40.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1769 ppm	0.0124 ppm	0.1691 ppm	3.6351 ppm	0.0019 ppm	0.3129 ppm	0.4442 ppm
Concentration per Run 1	5.3116 ppm	0.0129 ppm	0.1700 ppm	3.6247 ppm	0.0008 ppm	0.3125 ppm	0.4438 ppm
Concentration per Run 2	5.1488 ppm	0.0119 ppm	0.1693 ppm	3.6385 ppm	0.0021 ppm	0.3125 ppm	0.4421 ppm
Concentration per Run 3	5.0703 ppm	0.0125 ppm	0.1681 ppm	3.6422 ppm	0.0027 ppm	0.3138 ppm	0.4466 ppm
Concentration RSD	2.4 %	4.3 %	0.6 %	0.3 %	50.5 %	0.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	123.6764 %	117.1410 %	118.8628 %	102.2542 %	102.4764 %	110.5631 %
Concentration per Run 1	123.2346 %	117.6355 %	118.8163 %	101.8938 %	102.4554 %	111.2738 %
Concentration per Run 2	123.6136 %	117.2618 %	119.2221 %	102.3803 %	103.0325 %	110.5706 %
Concentration per Run 3	124.1810 %	116.5256 %	118.5500 %	102.4885 %	101.9414 %	109.8449 %
Concentration RSD	0.4 %	0.5 %	0.3 %	0.3 %	0.5 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: el2433096-01D2 WG1935663
Analysis started at: 6/18/2024 7:13:11 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0043 ppm	64.3541 ppm	0.1044 ppm	0.0712 ppm	0.9220 ppm	0.0032 ppm	154.3987 ppm
Concentration per Run 1	0.0042 ppm	63.4069 ppm	0.1048 ppm	0.0716 ppm	0.9089 ppm	0.0032 ppm	152.0235 ppm
Concentration per Run 2	0.0043 ppm	64.4945 ppm	0.1024 ppm	0.0709 ppm	0.9245 ppm	0.0033 ppm	154.9557 ppm
Concentration per Run 3	0.0043 ppm	65.1609 ppm	0.1061 ppm	0.0711 ppm	0.9327 ppm	0.0032 ppm	156.2169 ppm
Concentration RSD	0.8 %	1.4 %	1.8 %	0.5 %	1.3 %	1.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0098 ppm	0.0728 ppm	0.2400 ppm	1.7102 ppm	190.9200 ppm	7.0297 ppm	33.0119 ppm
Concentration per Run 1	0.0098 ppm	0.0730 ppm	0.2400 ppm	1.7080 ppm	187.0239 ppm	6.9233 ppm	32.9932 ppm
Concentration per Run 2	0.0097 ppm	0.0725 ppm	0.2401 ppm	1.7101 ppm	191.7915 ppm	7.0338 ppm	33.0316 ppm
Concentration per Run 3	0.0097 ppm	0.0729 ppm	0.2400 ppm	1.7126 ppm	193.9446 ppm	7.1321 ppm	33.0108 ppm
Concentration RSD	0.5 %	0.4 %	0.0 %	0.1 %	1.9 %	1.5 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.5162 ppm	0.0182 ppm	3.6885 ppm	0.1769 ppm	3.7599 ppm	0.0361 ppm	0.0077 ppm
Concentration per Run 1	2.4800 ppm	0.0186 ppm	3.6439 ppm	0.1777 ppm	3.7682 ppm	0.0376 ppm	0.0076 ppm
Concentration per Run 2	2.5244 ppm	0.0177 ppm	3.6930 ppm	0.1760 ppm	3.7405 ppm	0.0346 ppm	0.0067 ppm
Concentration per Run 3	2.5440 ppm	0.0183 ppm	3.7284 ppm	0.1770 ppm	3.7708 ppm	0.0361 ppm	0.0088 ppm
Concentration RSD	1.3 %	2.4 %	1.2 %	0.5 %	0.4 %	4.1 %	14.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	20.2979 ppm	0.6254 ppm	0.5800 ppm	3.3600 ppm	0.0044 ppm	0.3252 ppm	3.0630 ppm
Concentration per Run 1	20.3905 ppm	0.6278 ppm	0.5715 ppm	3.3582 ppm	0.0053 ppm	0.3248 ppm	3.0705 ppm
Concentration per Run 2	20.2591 ppm	0.6224 ppm	0.5817 ppm	3.3619 ppm	0.0047 ppm	0.3252 ppm	3.0482 ppm
Concentration per Run 3	20.2442 ppm	0.6260 ppm	0.5869 ppm	3.3597 ppm	0.0034 ppm	0.3256 ppm	3.0704 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	0.1 %	21.6 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	127.0550 %	119.1204 %	119.5782 %	100.2423 %	98.7996 %	108.0207 %
Concentration per Run 1	128.5677 %	119.3418 %	119.8260 %	101.1985 %	98.7690 %	108.2018 %
Concentration per Run 2	126.8131 %	118.6444 %	119.6563 %	99.8866 %	99.2690 %	107.7580 %
Concentration per Run 3	125.7842 %	119.3750 %	119.2524 %	99.6417 %	98.3608 %	108.1024 %
Concentration RSD	1.1 %	0.3 %	0.2 %	0.8 %	0.5 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2433123-01D2 WG1935663
Analysis started at: 6/18/2024 7:19:26 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	83.4095 ppm	0.0697 ppm	0.0222 ppm	0.4976 ppm	0.0028 ppm	105.8879 ppm
Concentration per Run 1	0.0000 ppm	83.9563 ppm	0.0697 ppm	0.0224 ppm	0.5003 ppm	0.0028 ppm	106.5125 ppm
Concentration per Run 2	-0.0002 ppm	83.3051 ppm	0.0703 ppm	0.0222 ppm	0.4970 ppm	0.0027 ppm	105.8018 ppm
Concentration per Run 3	0.0006 ppm	82.9671 ppm	0.0691 ppm	0.0220 ppm	0.4955 ppm	0.0028 ppm	105.3494 ppm
Concentration RSD	313.5 %	0.6 %	0.9 %	0.8 %	0.5 %	3.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	0.0766 ppm	0.1957 ppm	0.3799 ppm	151.8509 ppm	14.7435 ppm	41.1631 ppm
Concentration per Run 1	0.0053 ppm	0.0772 ppm	0.1956 ppm	0.3801 ppm	152.6595 ppm	14.8080 ppm	41.2046 ppm
Concentration per Run 2	0.0052 ppm	0.0761 ppm	0.1953 ppm	0.3801 ppm	151.8656 ppm	14.7536 ppm	41.2332 ppm
Concentration per Run 3	0.0052 ppm	0.0764 ppm	0.1962 ppm	0.3796 ppm	151.0275 ppm	14.6690 ppm	41.0515 ppm
Concentration RSD	0.9 %	0.7 %	0.2 %	0.1 %	0.5 %	0.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.6438 ppm	0.0047 ppm	5.5964 ppm	0.1404 ppm	1.0247 ppm	0.0136 ppm	0.0015 ppm
Concentration per Run 1	2.6592 ppm	0.0046 ppm	5.6308 ppm	0.1410 ppm	1.0286 ppm	0.0125 ppm	0.0028 ppm
Concentration per Run 2	2.6449 ppm	0.0048 ppm	5.5906 ppm	0.1400 ppm	1.0216 ppm	0.0140 ppm	0.0013 ppm
Concentration per Run 3	2.6274 ppm	0.0047 ppm	5.5679 ppm	0.1402 ppm	1.0240 ppm	0.0144 ppm	0.0003 ppm
Concentration RSD	0.6 %	2.5 %	0.6 %	0.4 %	0.3 %	7.2 %	86.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.9217 ppm	0.0797 ppm	0.3182 ppm	5.0502 ppm	0.0033 ppm	0.2743 ppm	1.0100 ppm
Concentration per Run 1	6.1083 ppm	0.0796 ppm	0.3202 ppm	5.0585 ppm	0.0022 ppm	0.2744 ppm	1.0154 ppm
Concentration per Run 2	5.7115 ppm	0.0793 ppm	0.3179 ppm	5.0596 ppm	0.0041 ppm	0.2749 ppm	1.0060 ppm
Concentration per Run 3	5.9454 ppm	0.0803 ppm	0.3166 ppm	5.0325 ppm	0.0035 ppm	0.2735 ppm	1.0085 ppm
Concentration RSD	3.4 %	0.6 %	0.6 %	0.3 %	29.5 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	125.6963 %	119.9106 %	121.4857 %	99.6854 %	100.5559 %	108.8295 %
Concentration per Run 1	124.8589 %	119.8749 %	121.4120 %	98.9628 %	100.0615 %	108.7365 %
Concentration per Run 2	125.3084 %	120.1722 %	122.2353 %	99.5134 %	100.8950 %	108.9211 %
Concentration per Run 3	126.9217 %	119.6847 %	120.8099 %	100.5800 %	100.7111 %	108.8310 %
Concentration RSD	0.9 %	0.2 %	0.6 %	0.8 %	0.4 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2433123-02D2 WG1935663
Analysis started at: 6/18/2024 7:25:34 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	82.6140 ppm	0.0814 ppm	0.0146 ppm	0.5382 ppm	0.0032 ppm	84.1518 ppm
Concentration per Run 1	0.0020 ppm	80.5708 ppm	0.0823 ppm	0.0147 ppm	0.5247 ppm	0.0032 ppm	82.1033 ppm
Concentration per Run 2	0.0023 ppm	83.7907 ppm	0.0819 ppm	0.0150 ppm	0.5464 ppm	0.0032 ppm	85.4127 ppm
Concentration per Run 3	0.0019 ppm	83.4805 ppm	0.0799 ppm	0.0142 ppm	0.5434 ppm	0.0033 ppm	84.9393 ppm
Concentration RSD	11.2 %	2.2 %	1.6 %	2.9 %	2.2 %	1.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0066 ppm	0.0845 ppm	0.2133 ppm	1.1928 ppm	196.6959 ppm	14.8406 ppm	46.7967 ppm
Concentration per Run 1	0.0069 ppm	0.0867 ppm	0.2134 ppm	1.1978 ppm	189.3698 ppm	14.4517 ppm	47.0529 ppm
Concentration per Run 2	0.0067 ppm	0.0847 ppm	0.2137 ppm	1.1918 ppm	199.7572 ppm	15.0507 ppm	46.7958 ppm
Concentration per Run 3	0.0063 ppm	0.0821 ppm	0.2127 ppm	1.1886 ppm	200.9606 ppm	15.0194 ppm	46.5414 ppm
Concentration RSD	4.6 %	2.8 %	0.2 %	0.4 %	3.2 %	2.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.0179 ppm	0.0039 ppm	4.8161 ppm	0.1689 ppm	2.2731 ppm	0.0474 ppm	0.0008 ppm
Concentration per Run 1	2.9402 ppm	0.0039 ppm	4.6924 ppm	0.1733 ppm	2.3249 ppm	0.0490 ppm	0.0027 ppm
Concentration per Run 2	3.0576 ppm	0.0037 ppm	4.8965 ppm	0.1687 ppm	2.2756 ppm	0.0468 ppm	-0.0021 ppm
Concentration per Run 3	3.0560 ppm	0.0041 ppm	4.8595 ppm	0.1649 ppm	2.2189 ppm	0.0463 ppm	0.0018 ppm
Concentration RSD	2.2 %	4.0 %	2.3 %	2.5 %	2.3 %	3.1 %	332.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.1063 ppm	0.4773 ppm	0.2509 ppm	4.7788 ppm	0.0034 ppm	0.3044 ppm	1.5905 ppm
Concentration per Run 1	6.6593 ppm	0.4887 ppm	0.2440 ppm	4.8073 ppm	0.0024 ppm	0.3053 ppm	1.6298 ppm
Concentration per Run 2	6.0787 ppm	0.4785 ppm	0.2546 ppm	4.7765 ppm	0.0053 ppm	0.3051 ppm	1.5908 ppm
Concentration per Run 3	5.5810 ppm	0.4648 ppm	0.2541 ppm	4.7525 ppm	0.0024 ppm	0.3029 ppm	1.5509 ppm
Concentration RSD	8.8 %	2.5 %	2.4 %	0.6 %	49.7 %	0.4 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	131.8750 %	122.0112 %	122.1405 %	103.0192 %	100.3711 %	109.5077 %
Concentration per Run 1	134.3025 %	121.6190 %	122.3806 %	104.7811 %	99.9255 %	109.1080 %
Concentration per Run 2	130.9686 %	121.9052 %	122.3100 %	102.8839 %	100.4913 %	109.4336 %
Concentration per Run 3	130.3539 %	122.5095 %	121.7308 %	101.3927 %	100.6965 %	109.9815 %
Concentration RSD	1.6 %	0.4 %	0.3 %	1.6 %	0.4 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: I2433096-01D4 WG1935663
Analysis started at: 6/18/2024 7:38:26 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0019 ppm	35.4478 ppm	0.0515 ppm	0.0340 ppm	0.5080 ppm	0.0018 ppm	86.4360 ppm
Concentration per Run 1	0.0016 ppm	35.1225 ppm	0.0504 ppm	0.0337 ppm	0.5028 ppm	0.0018 ppm	85.7554 ppm
Concentration per Run 2	0.0017 ppm	35.4982 ppm	0.0508 ppm	0.0340 ppm	0.5093 ppm	0.0018 ppm	86.4721 ppm
Concentration per Run 3	0.0023 ppm	35.7227 ppm	0.0531 ppm	0.0344 ppm	0.5119 ppm	0.0018 ppm	87.0805 ppm
Concentration RSD	20.4 %	0.9 %	2.8 %	1.0 %	0.9 %	0.8 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0048 ppm	0.0359 ppm	0.1182 ppm	0.8236 ppm	109.5032 ppm	3.8027 ppm	16.5037 ppm
Concentration per Run 1	0.0048 ppm	0.0356 ppm	0.1176 ppm	0.8198 ppm	108.3736 ppm	3.7540 ppm	16.4292 ppm
Concentration per Run 2	0.0048 ppm	0.0358 ppm	0.1185 ppm	0.8242 ppm	109.5291 ppm	3.8060 ppm	16.4634 ppm
Concentration per Run 3	0.0049 ppm	0.0361 ppm	0.1185 ppm	0.8269 ppm	110.6070 ppm	3.8480 ppm	16.6185 ppm
Concentration RSD	0.6 %	0.7 %	0.4 %	0.4 %	1.0 %	1.2 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4212 ppm	0.0088 ppm	2.0249 ppm	0.0864 ppm	1.8922 ppm	0.0171 ppm	0.0037 ppm
Concentration per Run 1	1.4058 ppm	0.0086 ppm	2.0047 ppm	0.0864 ppm	1.8834 ppm	0.0172 ppm	0.0052 ppm
Concentration per Run 2	1.4226 ppm	0.0090 ppm	2.0324 ppm	0.0863 ppm	1.8931 ppm	0.0164 ppm	0.0033 ppm
Concentration per Run 3	1.4352 ppm	0.0087 ppm	2.0377 ppm	0.0864 ppm	1.9000 ppm	0.0176 ppm	0.0026 ppm
Concentration RSD	1.0 %	1.9 %	0.9 %	0.1 %	0.4 %	3.6 %	35.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.6201 ppm	0.3096 ppm	0.3215 ppm	1.6412 ppm	0.0016 ppm	0.1604 ppm	1.5341 ppm
Concentration per Run 1	9.5438 ppm	0.3083 ppm	0.3184 ppm	1.6347 ppm	0.0013 ppm	0.1595 ppm	1.5252 ppm
Concentration per Run 2	9.6447 ppm	0.3097 ppm	0.3226 ppm	1.6377 ppm	0.0033 ppm	0.1601 ppm	1.5349 ppm
Concentration per Run 3	9.6717 ppm	0.3108 ppm	0.3235 ppm	1.6513 ppm	0.0001 ppm	0.1615 ppm	1.5421 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %	0.5 %	101.8 %	0.6 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	113.8901 %	109.1803 %	110.4691 %	116.0714 %	101.7393 %	110.7412 %
Concentration per Run 1	114.4998 %	108.9575 %	110.3384 %	121.0519 %	102.2236 %	111.1533 %
Concentration per Run 2	114.1885 %	109.7560 %	110.4893 %	116.1683 %	101.7309 %	111.1939 %
Concentration per Run 3	112.9819 %	108.8274 %	110.5797 %	110.9938 %	101.2636 %	109.8764 %
Concentration RSD	0.7 %	0.5 %	0.1 %	4.3 %	0.5 %	0.7 %

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:44:34 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5053 ppm	0.5120 ppm	0.4890 ppm	0.4925 ppm	0.4862 ppm	0.4757 ppm	0.4992 ppm
Concentration per Run 1	0.5049 ppm	0.5100 ppm	0.4876 ppm	0.4926 ppm	0.4806 ppm	0.4703 ppm	0.4988 ppm
Concentration per Run 2	0.5076 ppm	0.5135 ppm	0.4888 ppm	0.4924 ppm	0.4873 ppm	0.4777 ppm	0.5010 ppm
Concentration per Run 3	0.5033 ppm	0.5124 ppm	0.4907 ppm	0.4925 ppm	0.4909 ppm	0.4793 ppm	0.4976 ppm
Recovery Percentage 1	101.054 %	102.392 %	97.808 %	98.503 %	97.246 %	95.150 %	99.831 %
Concentration RSD	0.4 %	0.3 %	0.3 %	0.0 %	1.1 %	1.0 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4915 ppm	0.5018 ppm	0.5108 ppm	0.5043 ppm	0.5139 ppm	4.7745 ppm	0.4815 ppm
Concentration per Run 1	0.4918 ppm	0.5019 ppm	0.5099 ppm	0.5036 ppm	0.5085 ppm	4.7226 ppm	0.4801 ppm
Concentration per Run 2	0.4909 ppm	0.5014 ppm	0.5138 ppm	0.5074 ppm	0.5167 ppm	4.8115 ppm	0.4829 ppm
Concentration per Run 3	0.4916 ppm	0.5022 ppm	0.5088 ppm	0.5019 ppm	0.5165 ppm	4.7893 ppm	0.4816 ppm
Recovery Percentage 1	98.293 %	100.370 %	102.168 %	100.863 %	102.777 %	95.490 %	96.304 %
Concentration RSD	0.1 %	0.1 %	0.5 %	0.6 %	0.9 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4772 ppm	0.4903 ppm	9.6272 ppm	0.5053 ppm	0.5008 ppm	0.5063 ppm	0.5076 ppm
Concentration per Run 1	0.4715 ppm	0.4884 ppm	9.5292 ppm	0.5053 ppm	0.5004 ppm	0.5059 ppm	0.5061 ppm
Concentration per Run 2	0.4797 ppm	0.4907 ppm	9.6534 ppm	0.5048 ppm	0.5030 ppm	0.5058 ppm	0.5101 ppm
Concentration per Run 3	0.4805 ppm	0.4919 ppm	9.6989 ppm	0.5057 ppm	0.4991 ppm	0.5072 ppm	0.5066 ppm
Recovery Percentage 1	95.446 %	98.068 %	96.272 %	101.059 %	100.167 %	101.265 %	101.523 %
Concentration RSD	1.0 %	0.4 %	0.9 %	0.1 %	0.4 %	0.2 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7081 ppm	0.4946 ppm	0.4731 ppm	0.4782 ppm	0.4992 ppm	0.5049 ppm	0.5066 ppm
Concentration per Run 1	5.7119 ppm	0.4946 ppm	0.4674 ppm	0.4779 ppm	0.4994 ppm	0.5039 ppm	0.5067 ppm
Concentration per Run 2	5.7038 ppm	0.4937 ppm	0.4740 ppm	0.4804 ppm	0.4989 ppm	0.5084 ppm	0.5062 ppm
Concentration per Run 3	5.7086 ppm	0.4955 ppm	0.4780 ppm	0.4764 ppm	0.4994 ppm	0.5025 ppm	0.5068 ppm
Recovery Percentage 1	108.726 %	98.919 %	94.623 %	95.646 %	99.847 %	100.988 %	101.318 %
Concentration RSD	0.1 %	0.2 %	1.1 %	0.4 %	0.1 %	0.6 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.2103 %	99.5464 %	102.1421 %	94.1437 %	101.8401 %	105.2075 %
Concentration per Run 1	105.0176 %	99.3469 %	102.2702 %	93.7198 %	101.8978 %	105.3874 %
Concentration per Run 2	104.0803 %	99.1577 %	102.0696 %	94.5789 %	101.9263 %	104.8365 %
Concentration per Run 3	103.5329 %	100.1347 %	102.0863 %	94.1323 %	101.6961 %	105.3985 %
Recovery Percentage 1						
Concentration RSD	0.7 %	0.5 %	0.1 %	0.5 %	0.1 %	0.3 %

ICP DataTrace 5

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LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:50:38 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0122 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0048 ppm
Concentration per Run 1	-0.0006 ppm	0.0144 ppm	-0.0025 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0044 ppm
Concentration per Run 2	-0.0002 ppm	0.0159 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 3	-0.0005 ppm	0.0061 ppm	-0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0079 ppm
Recovery Percentage 1	-5.869 %	12.155 %	-25.452 %	0.802 %	-0.150 %	1.947 %	4.829 %
Concentration RSD	44.3 %	43.3 %	86.4 %	110.9 %	1,087.3 %	58.0 %	59.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0112 ppm	-0.0962 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0102 ppm	-0.0955 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0100 ppm	-0.1133 ppm	0.0023 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0133 ppm	-0.0798 ppm	-0.0019 ppm
Recovery Percentage 1	1.860 %	-0.347 %	-2.161 %	-2.746 %	22.325 %	-3.848 %	0.075 %
Concentration RSD	23.4 %	314.0 %	62.9 %	67.9 %	16.6 %	17.4 %	2,824.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0010 ppm	-0.0145 ppm	0.0003 ppm	-0.0004 ppm	0.0010 ppm	0.0033 ppm
Concentration per Run 1	0.0010 ppm	0.0011 ppm	-0.0160 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0038 ppm
Concentration per Run 2	0.0004 ppm	0.0009 ppm	-0.0138 ppm	0.0002 ppm	-0.0009 ppm	0.0017 ppm	0.0023 ppm
Concentration per Run 3	0.0005 ppm	0.0010 ppm	-0.0137 ppm	0.0003 ppm	-0.0001 ppm	0.0012 ppm	0.0039 ppm
Recovery Percentage 1	6.294 %	1.989 %	-0.726 %	1.062 %	-3.855 %	2.096 %	32.954 %
Concentration RSD	49.5 %	13.2 %	8.9 %	14.5 %	122.3 %	73.2 %	26.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0056 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.0060 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 2	0.0062 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 3	0.0045 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm
Recovery Percentage 1	1.118 %	0.672 %	0.811 %	3.318 %	-1.247 %	1.572 %	-15.705 %
Concentration RSD	16.5 %	46.0 %	73.7 %	148.4 %	232.1 %	123.7 %	6.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.5641 %	101.8239 %	103.1536 %	87.1206 %	100.2682 %	103.3531 %
Concentration per Run 1	105.1251 %	101.8395 %	103.1741 %	85.2456 %	100.0399 %	102.9769 %
Concentration per Run 2	104.5943 %	101.5330 %	103.3832 %	87.4094 %	100.4185 %	103.2429 %
Concentration per Run 3	103.9730 %	102.0992 %	102.9034 %	88.7068 %	100.3461 %	103.8394 %
Recovery Percentage 1						
Concentration RSD	0.6 %	0.3 %	0.2 %	2.0 %	0.2 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-1 wg1935811
Analysis started at: 6/18/2024 8:02:56 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0127 ppm	-0.0006 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0056 ppm
Concentration per Run 1	0.0002 ppm	0.0050 ppm	-0.0005 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0085 ppm
Concentration per Run 2	-0.0005 ppm	0.0235 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0083 ppm
Concentration per Run 3	-0.0002 ppm	0.0097 ppm	-0.0015 ppm	-0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	210.7 %	75.5 %	130.1 %	77.6 %	55.9 %	98.0 %	85.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0031 ppm	-0.0898 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0031 ppm	-0.0786 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm	-0.0875 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0035 ppm	-0.1031 ppm	-0.0007 ppm
Concentration RSD	4,182.5 %	91.1 %	149.2 %	144.0 %	13.8 %	13.8 %	130.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	-0.0189 ppm	0.0003 ppm	0.0005 ppm	-0.0007 ppm	0.0033 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	-0.0190 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0239 ppm	0.0002 ppm	0.0010 ppm	-0.0022 ppm	0.0031 ppm
Concentration per Run 3	0.0004 ppm	-0.0002 ppm	-0.0137 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0053 ppm
Concentration RSD	44.8 %	83.4 %	27.0 %	75.5 %	120.6 %	178.8 %	58.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0064 ppm	-0.0010 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm	0.0002 ppm	-0.0010 ppm
Concentration per Run 1	0.0061 ppm	-0.0013 ppm	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.0067 ppm	-0.0011 ppm	0.0002 ppm	0.0003 ppm	-0.0014 ppm	0.0005 ppm	-0.0010 ppm
Concentration per Run 3	0.0063 ppm	-0.0005 ppm	0.0000 ppm	0.0007 ppm	-0.0003 ppm	-0.0001 ppm	-0.0010 ppm
Concentration RSD	4.3 %	43.7 %	998.8 %	52.3 %	120.2 %	142.6 %	6.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	108.7845 %	103.4146 %	104.7012 %	100.2450 %	102.3023 %	106.1189 %
Concentration per Run 1	112.7820 %	103.3304 %	104.7996 %	102.2795 %	102.3121 %	106.1878 %
Concentration per Run 2	108.0453 %	103.1927 %	104.7531 %	100.0370 %	102.2880 %	105.9195 %
Concentration per Run 3	105.5262 %	103.7207 %	104.5509 %	98.4184 %	102.3067 %	106.2493 %
Concentration RSD	3.4 %	0.3 %	0.1 %	1.9 %	0.0 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-2 wg1935811
Analysis started at: 6/18/2024 8:09:17 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	1.9452 ppm	0.1190 ppm	0.9639 ppm	1.9014 ppm	0.0463 ppm	9.7798 ppm
Concentration per Run 1	0.0503 ppm	1.8732 ppm	0.1196 ppm	0.9678 ppm	1.8394 ppm	0.0449 ppm	9.4790 ppm
Concentration per Run 2	0.0509 ppm	1.9690 ppm	0.1188 ppm	0.9628 ppm	1.9230 ppm	0.0468 ppm	9.9107 ppm
Concentration per Run 3	0.0504 ppm	1.9934 ppm	0.1184 ppm	0.9612 ppm	1.9418 ppm	0.0473 ppm	9.9496 ppm
Concentration RSD	0.6 %	3.3 %	0.5 %	0.4 %	2.9 %	2.8 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0529 ppm	0.4818 ppm	0.2003 ppm	0.2520 ppm	0.9353 ppm	9.5048 ppm	9.4968 ppm
Concentration per Run 1	0.0532 ppm	0.4841 ppm	0.2001 ppm	0.2521 ppm	0.9034 ppm	9.2323 ppm	9.4974 ppm
Concentration per Run 2	0.0527 ppm	0.4807 ppm	0.2006 ppm	0.2527 ppm	0.9450 ppm	9.5814 ppm	9.5193 ppm
Concentration per Run 3	0.0528 ppm	0.4805 ppm	0.2000 ppm	0.2511 ppm	0.9576 ppm	9.7009 ppm	9.4739 ppm
Concentration RSD	0.5 %	0.4 %	0.2 %	0.3 %	3.0 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4720 ppm	0.9426 ppm	9.5439 ppm	0.4907 ppm	0.5311 ppm	0.4933 ppm	0.1220 ppm
Concentration per Run 1	0.4567 ppm	0.9379 ppm	9.2250 ppm	0.4931 ppm	0.5345 ppm	0.4927 ppm	0.1222 ppm
Concentration per Run 2	0.4772 ppm	0.9411 ppm	9.6502 ppm	0.4894 ppm	0.5296 ppm	0.4916 ppm	0.1218 ppm
Concentration per Run 3	0.4822 ppm	0.9487 ppm	9.7565 ppm	0.4897 ppm	0.5292 ppm	0.4955 ppm	0.1219 ppm
Concentration RSD	2.9 %	0.6 %	2.9 %	0.4 %	0.6 %	0.4 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0854 ppm	0.9576 ppm	0.9077 ppm	0.9464 ppm	0.1175 ppm	0.4991 ppm	0.4968 ppm
Concentration per Run 1	1.0925 ppm	0.9598 ppm	0.8778 ppm	0.9449 ppm	0.1184 ppm	0.4998 ppm	0.4994 ppm
Concentration per Run 2	1.0825 ppm	0.9563 ppm	0.9176 ppm	0.9502 ppm	0.1164 ppm	0.5001 ppm	0.4955 ppm
Concentration per Run 3	1.0814 ppm	0.9568 ppm	0.9278 ppm	0.9442 ppm	0.1176 ppm	0.4975 ppm	0.4954 ppm
Concentration RSD	0.6 %	0.2 %	2.9 %	0.3 %	0.9 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.6793 %	101.5400 %	103.0287 %	90.5391 %	102.1523 %	105.3824 %
Concentration per Run 1	109.7128 %	101.8170 %	103.1426 %	89.6926 %	101.6807 %	105.6639 %
Concentration per Run 2	105.5398 %	101.3378 %	103.0721 %	90.1957 %	102.5260 %	104.9435 %
Concentration per Run 3	104.7854 %	101.4653 %	102.8714 %	91.7291 %	102.2502 %	105.5396 %
Concentration RSD	2.5 %	0.2 %	0.1 %	1.2 %	0.4 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-3 wg1935811
Analysis started at: 6/18/2024 8:15:24 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	1.9358 ppm	0.1178 ppm	0.9572 ppm	1.8947 ppm	0.0465 ppm	9.6568 ppm
Concentration per Run 1	0.0508 ppm	1.8665 ppm	0.1184 ppm	0.9600 ppm	1.8254 ppm	0.0448 ppm	9.2982 ppm
Concentration per Run 2	0.0506 ppm	1.9625 ppm	0.1179 ppm	0.9567 ppm	1.9267 ppm	0.0472 ppm	9.7775 ppm
Concentration per Run 3	0.0502 ppm	1.9785 ppm	0.1171 ppm	0.9549 ppm	1.9318 ppm	0.0474 ppm	9.8946 ppm
Concentration RSD	0.6 %	3.1 %	0.5 %	0.3 %	3.2 %	3.2 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0529 ppm	0.4828 ppm	0.2009 ppm	0.2532 ppm	0.9421 ppm	9.4175 ppm	9.4244 ppm
Concentration per Run 1	0.0532 ppm	0.4851 ppm	0.2012 ppm	0.2532 ppm	0.9030 ppm	9.0969 ppm	9.4643 ppm
Concentration per Run 2	0.0527 ppm	0.4821 ppm	0.2003 ppm	0.2534 ppm	0.9620 ppm	9.6056 ppm	9.4279 ppm
Concentration per Run 3	0.0527 ppm	0.4813 ppm	0.2012 ppm	0.2530 ppm	0.9612 ppm	9.5501 ppm	9.3811 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.1 %	3.6 %	3.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4721 ppm	0.9410 ppm	9.4491 ppm	0.4912 ppm	0.5276 ppm	0.4992 ppm	0.1220 ppm
Concentration per Run 1	0.4553 ppm	0.9360 ppm	9.1189 ppm	0.4930 ppm	0.5285 ppm	0.5010 ppm	0.1222 ppm
Concentration per Run 2	0.4802 ppm	0.9415 ppm	9.6113 ppm	0.4908 ppm	0.5283 ppm	0.4970 ppm	0.1199 ppm
Concentration per Run 3	0.4807 ppm	0.9455 ppm	9.6172 ppm	0.4899 ppm	0.5261 ppm	0.4997 ppm	0.1238 ppm
Concentration RSD	3.1 %	0.5 %	3.0 %	0.3 %	0.3 %	0.4 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0755 ppm	0.9527 ppm	0.8977 ppm	0.9411 ppm	0.1167 ppm	0.4995 ppm	0.4972 ppm
Concentration per Run 1	1.0770 ppm	0.9549 ppm	0.8650 ppm	0.9433 ppm	0.1185 ppm	0.5006 ppm	0.4988 ppm
Concentration per Run 2	1.0754 ppm	0.9517 ppm	0.9133 ppm	0.9417 ppm	0.1161 ppm	0.4996 ppm	0.4962 ppm
Concentration per Run 3	1.0740 ppm	0.9515 ppm	0.9149 ppm	0.9385 ppm	0.1155 ppm	0.4982 ppm	0.4965 ppm
Concentration RSD	0.1 %	0.2 %	3.2 %	0.3 %	1.4 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.7629 %	101.4857 %	102.8020 %	90.3636 %	102.1618 %	105.2003 %
Concentration per Run 1	110.4108 %	101.5016 %	102.9257 %	90.0226 %	101.8251 %	104.7553 %
Concentration per Run 2	105.1195 %	101.1277 %	102.8984 %	90.1460 %	102.3728 %	105.0460 %
Concentration per Run 3	104.7584 %	101.8277 %	102.5817 %	90.9222 %	102.2875 %	105.7997 %
Concentration RSD	3.0 %	0.3 %	0.2 %	0.5 %	0.3 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433498-01 wg1935811
Analysis started at: 6/18/2024 8:21:29 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.1626 ppm	0.0009 ppm	0.0401 ppm	0.1331 ppm	0.0001 ppm	81.3620 ppm
Concentration per Run 1	-0.0007 ppm	0.1675 ppm	0.0002 ppm	0.0401 ppm	0.1327 ppm	0.0001 ppm	81.1020 ppm
Concentration per Run 2	-0.0004 ppm	0.1628 ppm	0.0003 ppm	0.0401 ppm	0.1339 ppm	0.0001 ppm	81.6644 ppm
Concentration per Run 3	-0.0007 ppm	0.1576 ppm	0.0021 ppm	0.0399 ppm	0.1328 ppm	0.0002 ppm	81.3196 ppm
Concentration RSD	31.7 %	3.1 %	122.7 %	0.3 %	0.5 %	47.6 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0004 ppm	0.0002 ppm	0.0023 ppm	0.1046 ppm	10.6784 ppm	15.4182 ppm
Concentration per Run 1	0.0006 ppm	0.0005 ppm	-0.0003 ppm	0.0022 ppm	0.1058 ppm	10.6050 ppm	15.4592 ppm
Concentration per Run 2	0.0006 ppm	0.0003 ppm	0.0006 ppm	0.0019 ppm	0.1032 ppm	10.7062 ppm	15.4254 ppm
Concentration per Run 3	0.0006 ppm	0.0004 ppm	0.0002 ppm	0.0026 ppm	0.1049 ppm	10.7239 ppm	15.3698 ppm
Concentration RSD	5.6 %	30.6 %	228.1 %	15.9 %	1.3 %	0.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1110 ppm	0.0070 ppm	484.3222 ppm	0.0018 ppm	0.0001 ppm	0.0040 ppm	0.0040 ppm
Concentration per Run 1	0.1105 ppm	0.0078 ppm	483.9807 ppm	0.0020 ppm	0.0002 ppm	0.0046 ppm	0.0040 ppm
Concentration per Run 2	0.1116 ppm	0.0068 ppm	489.8899 ppm	0.0018 ppm	0.0000 ppm	0.0029 ppm	0.0067 ppm
Concentration per Run 3	0.1108 ppm	0.0063 ppm	479.0962 ppm	0.0016 ppm	0.0002 ppm	0.0043 ppm	0.0014 ppm
Concentration RSD	0.5 %	11.0 %	1.1 %	11.9 %	85.4 %	23.1 %	66.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.5361 ppm	0.0017 ppm	0.6123 ppm	0.0026 ppm	0.0001 ppm	1.3445 ppm	0.0268 ppm
Concentration per Run 1	8.5329 ppm	0.0017 ppm	0.6104 ppm	0.0028 ppm	0.0005 ppm	1.3498 ppm	0.0268 ppm
Concentration per Run 2	8.5580 ppm	0.0021 ppm	0.6147 ppm	0.0025 ppm	-0.0011 ppm	1.3444 ppm	0.0269 ppm
Concentration per Run 3	8.5173 ppm	0.0012 ppm	0.6118 ppm	0.0024 ppm	0.0010 ppm	1.3393 ppm	0.0267 ppm
Concentration RSD	0.2 %	28.7 %	0.4 %	8.5 %	850.0 %	0.4 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.1486 %	93.6007 %	96.1618 %	83.2357 %	88.9631 %	94.4618 %
Concentration per Run 1	101.7017 %	93.1257 %	96.1571 %	81.2554 %	88.7781 %	93.7019 %
Concentration per Run 2	100.5848 %	93.9135 %	96.2054 %	83.3406 %	88.8716 %	94.8504 %
Concentration per Run 3	101.1594 %	93.7630 %	96.1230 %	85.1110 %	89.2396 %	94.8333 %
Concentration RSD	0.6 %	0.4 %	0.0 %	2.3 %	0.3 %	0.7 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-4 wg1935811
Analysis started at: 6/18/2024 8:27:50 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0506 ppm	2.0998 ppm	0.1303 ppm	1.0416 ppm	2.0545 ppm	0.0477 ppm	94.1305 ppm
Concentration per Run 1	0.0510 ppm	2.1271 ppm	0.1319 ppm	1.0429 ppm	2.0778 ppm	0.0481 ppm	95.2400 ppm
Concentration per Run 2	0.0500 ppm	2.0795 ppm	0.1300 ppm	1.0401 ppm	2.0454 ppm	0.0475 ppm	93.7304 ppm
Concentration per Run 3	0.0508 ppm	2.0928 ppm	0.1290 ppm	1.0419 ppm	2.0404 ppm	0.0475 ppm	93.4211 ppm
Concentration RSD	1.1 %	1.2 %	1.1 %	0.1 %	1.0 %	0.7 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0539 ppm	0.4818 ppm	0.1955 ppm	0.2542 ppm	1.0544 ppm	20.7450 ppm	24.4940 ppm
Concentration per Run 1	0.0540 ppm	0.4828 ppm	0.1964 ppm	0.2544 ppm	1.0577 ppm	21.0191 ppm	24.5118 ppm
Concentration per Run 2	0.0539 ppm	0.4813 ppm	0.1950 ppm	0.2541 ppm	1.0543 ppm	20.6385 ppm	24.4496 ppm
Concentration per Run 3	0.0539 ppm	0.4814 ppm	0.1951 ppm	0.2542 ppm	1.0512 ppm	20.5774 ppm	24.5206 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %	0.1 %	0.3 %	1.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5854 ppm	0.9755 ppm	487.1615 ppm	0.4888 ppm	0.5288 ppm	0.5194 ppm	0.1325 ppm
Concentration per Run 1	0.5931 ppm	0.9671 ppm	495.7417 ppm	0.4906 ppm	0.5297 ppm	0.5163 ppm	0.1312 ppm
Concentration per Run 2	0.5821 ppm	0.9753 ppm	483.7398 ppm	0.4874 ppm	0.5276 ppm	0.5170 ppm	0.1322 ppm
Concentration per Run 3	0.5810 ppm	0.9841 ppm	482.0031 ppm	0.4885 ppm	0.5291 ppm	0.5250 ppm	0.1340 ppm
Concentration RSD	1.1 %	0.9 %	1.5 %	0.3 %	0.2 %	0.9 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.7946 ppm	0.9783 ppm	1.5589 ppm	0.9614 ppm	0.1120 ppm	1.8464 ppm	0.5324 ppm
Concentration per Run 1	9.8141 ppm	0.9788 ppm	1.5772 ppm	0.9615 ppm	0.1106 ppm	1.8476 ppm	0.5340 ppm
Concentration per Run 2	9.7837 ppm	0.9772 ppm	1.5524 ppm	0.9611 ppm	0.1144 ppm	1.8434 ppm	0.5316 ppm
Concentration per Run 3	9.7859 ppm	0.9788 ppm	1.5472 ppm	0.9615 ppm	0.1110 ppm	1.8482 ppm	0.5315 ppm
Concentration RSD	0.2 %	0.1 %	1.0 %	0.0 %	1.8 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.3475 %	93.6274 %	95.6042 %	85.5335 %	90.7136 %	96.6119 %
Concentration per Run 1	99.2161 %	93.8357 %	95.5663 %	82.5183 %	90.5430 %	96.6448 %
Concentration per Run 2	100.6332 %	93.7316 %	95.6455 %	85.9557 %	90.7457 %	96.6341 %
Concentration per Run 3	101.1931 %	93.3149 %	95.6006 %	88.1265 %	90.8521 %	96.5568 %
Concentration RSD	1.0 %	0.3 %	0.0 %	3.3 %	0.2 %	0.0 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-5 wg1935811
Analysis started at: 6/18/2024 8:34:03 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0514 ppm	2.1310 ppm	0.1324 ppm	1.0585 ppm	2.0682 ppm	0.0476 ppm	94.4297 ppm
Concentration per Run 1	0.0512 ppm	2.1058 ppm	0.1315 ppm	1.0596 ppm	2.0612 ppm	0.0472 ppm	94.1451 ppm
Concentration per Run 2	0.0513 ppm	2.1537 ppm	0.1331 ppm	1.0585 ppm	2.0743 ppm	0.0477 ppm	94.7178 ppm
Concentration per Run 3	0.0516 ppm	2.1336 ppm	0.1326 ppm	1.0575 ppm	2.0691 ppm	0.0479 ppm	94.4261 ppm
Concentration RSD	0.4 %	1.1 %	0.6 %	0.1 %	0.3 %	0.8 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0547 ppm	0.4875 ppm	0.1974 ppm	0.2569 ppm	1.0578 ppm	20.7558 ppm	24.7531 ppm
Concentration per Run 1	0.0547 ppm	0.4878 ppm	0.1981 ppm	0.2566 ppm	1.0429 ppm	20.6342 ppm	24.7609 ppm
Concentration per Run 2	0.0546 ppm	0.4875 ppm	0.1970 ppm	0.2570 ppm	1.0621 ppm	20.8522 ppm	24.7509 ppm
Concentration per Run 3	0.0546 ppm	0.4874 ppm	0.1969 ppm	0.2571 ppm	1.0685 ppm	20.7809 ppm	24.7474 ppm
Concentration RSD	0.1 %	0.0 %	0.3 %	0.1 %	1.3 %	0.5 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5879 ppm	0.9920 ppm	482.7326 ppm	0.4966 ppm	0.5361 ppm	0.5298 ppm	0.1346 ppm
Concentration per Run 1	0.5856 ppm	0.9833 ppm	489.3178 ppm	0.4972 ppm	0.5359 ppm	0.5261 ppm	0.1359 ppm
Concentration per Run 2	0.5891 ppm	0.9927 ppm	481.9285 ppm	0.4963 ppm	0.5366 ppm	0.5285 ppm	0.1333 ppm
Concentration per Run 3	0.5891 ppm	1.0002 ppm	476.9514 ppm	0.4963 ppm	0.5360 ppm	0.5347 ppm	0.1346 ppm
Concentration RSD	0.3 %	0.9 %	1.3 %	0.1 %	0.1 %	0.8 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.9049 ppm	0.9918 ppm	1.5615 ppm	0.9745 ppm	0.1148 ppm	1.8613 ppm	0.5407 ppm
Concentration per Run 1	9.9188 ppm	0.9931 ppm	1.5555 ppm	0.9765 ppm	0.1160 ppm	1.8633 ppm	0.5413 ppm
Concentration per Run 2	9.8981 ppm	0.9911 ppm	1.5661 ppm	0.9733 ppm	0.1143 ppm	1.8619 ppm	0.5402 ppm
Concentration per Run 3	9.8977 ppm	0.9912 ppm	1.5629 ppm	0.9738 ppm	0.1140 ppm	1.8589 ppm	0.5404 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.2 %	0.9 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.0011 %	93.3959 %	95.3583 %	88.1239 %	90.2940 %	96.5068 %
Concentration per Run 1	101.2581 %	93.7858 %	95.4406 %	86.5202 %	90.2219 %	96.6179 %
Concentration per Run 2	100.8139 %	93.1445 %	95.5473 %	88.0254 %	90.3220 %	96.4576 %
Concentration per Run 3	100.9313 %	93.2575 %	95.0871 %	89.8259 %	90.3381 %	96.4448 %
Concentration RSD	0.2 %	0.4 %	0.3 %	1.9 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-7 wg1935811
Analysis started at: 6/18/2024 8:40:16 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	2.0421 ppm	0.1296 ppm	1.0302 ppm	1.9782 ppm	0.0456 ppm	91.7372 ppm
Concentration per Run 1	0.0493 ppm	2.0262 ppm	0.1309 ppm	1.0398 ppm	1.9657 ppm	0.0452 ppm	91.5729 ppm
Concentration per Run 2	0.0497 ppm	2.0332 ppm	0.1291 ppm	1.0285 ppm	1.9813 ppm	0.0458 ppm	91.7652 ppm
Concentration per Run 3	0.0497 ppm	2.0667 ppm	0.1288 ppm	1.0225 ppm	1.9876 ppm	0.0457 ppm	91.8734 ppm
Concentration RSD	0.4 %	1.1 %	0.9 %	0.9 %	0.6 %	0.8 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0528 ppm	0.4711 ppm	0.1917 ppm	0.2499 ppm	1.0168 ppm	20.0790 ppm	24.0438 ppm
Concentration per Run 1	0.0534 ppm	0.4758 ppm	0.1920 ppm	0.2507 ppm	1.0044 ppm	20.0114 ppm	24.1133 ppm
Concentration per Run 2	0.0527 ppm	0.4702 ppm	0.1921 ppm	0.2494 ppm	1.0202 ppm	20.1223 ppm	24.0433 ppm
Concentration per Run 3	0.0523 ppm	0.4672 ppm	0.1910 ppm	0.2496 ppm	1.0259 ppm	20.1034 ppm	23.9746 ppm
Concentration RSD	1.0 %	0.9 %	0.3 %	0.3 %	1.1 %	0.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5653 ppm	0.9661 ppm	470.5951 ppm	0.4793 ppm	0.5249 ppm	0.5074 ppm	0.1304 ppm
Concentration per Run 1	0.5632 ppm	0.9640 ppm	475.5115 ppm	0.4840 ppm	0.5299 ppm	0.5099 ppm	0.1275 ppm
Concentration per Run 2	0.5660 ppm	0.9649 ppm	471.0743 ppm	0.4793 ppm	0.5249 ppm	0.5084 ppm	0.1304 ppm
Concentration per Run 3	0.5666 ppm	0.9693 ppm	465.1995 ppm	0.4747 ppm	0.5200 ppm	0.5038 ppm	0.1334 ppm
Concentration RSD	0.3 %	0.3 %	1.1 %	1.0 %	0.9 %	0.6 %	2.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.4677 ppm	0.9720 ppm	1.5100 ppm	0.9528 ppm	0.1118 ppm	1.8048 ppm	0.5220 ppm
Concentration per Run 1	9.4950 ppm	0.9796 ppm	1.5023 ppm	0.9550 ppm	0.1128 ppm	1.8085 ppm	0.5264 ppm
Concentration per Run 2	9.4571 ppm	0.9716 ppm	1.5129 ppm	0.9530 ppm	0.1117 ppm	1.8033 ppm	0.5214 ppm
Concentration per Run 3	9.4509 ppm	0.9646 ppm	1.5149 ppm	0.9504 ppm	0.1110 ppm	1.8026 ppm	0.5182 ppm
Concentration RSD	0.3 %	0.8 %	0.4 %	0.2 %	0.8 %	0.2 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.3204 %	94.0489 %	96.0533 %	86.3006 %	91.0072 %	97.2014 %
Concentration per Run 1	101.4169 %	94.0856 %	95.9675 %	83.5548 %	90.7928 %	96.8516 %
Concentration per Run 2	101.0712 %	94.1014 %	96.1666 %	86.5373 %	91.0602 %	97.2602 %
Concentration per Run 3	101.4732 %	93.9596 %	96.0257 %	88.8097 %	91.1687 %	97.4924 %
Concentration RSD	0.2 %	0.1 %	0.1 %	3.1 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: wg1935811-6d5 wg1935811
Analysis started at: 6/18/2024 8:46:29 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0378 ppm	-0.0002 ppm	0.0091 ppm	0.0258 ppm	0.0001 ppm	15.8650 ppm
Concentration per Run 1	-0.0005 ppm	0.0413 ppm	-0.0011 ppm	0.0096 ppm	0.0248 ppm	0.0000 ppm	15.2851 ppm
Concentration per Run 2	-0.0007 ppm	0.0404 ppm	0.0005 ppm	0.0088 ppm	0.0262 ppm	0.0000 ppm	16.1956 ppm
Concentration per Run 3	-0.0007 ppm	0.0318 ppm	0.0001 ppm	0.0088 ppm	0.0264 ppm	0.0002 ppm	16.1143 ppm
Concentration RSD	11.5 %	13.8 %	435.4 %	5.3 %	3.3 %	125.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0253 ppm	2.1147 ppm	3.0913 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0248 ppm	2.0293 ppm	3.0966 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0245 ppm	2.1556 ppm	3.0926 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0265 ppm	2.1593 ppm	3.0847 ppm
Concentration RSD	26.0 %	46.8 %	448.7 %	47.8 %	4.3 %	3.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0225 ppm	0.0062 ppm	110.6889 ppm	0.0007 ppm	0.0003 ppm	0.0067 ppm	0.0028 ppm
Concentration per Run 1	0.0215 ppm	0.0071 ppm	106.5468 ppm	0.0008 ppm	-0.0003 ppm	0.0072 ppm	0.0011 ppm
Concentration per Run 2	0.0228 ppm	0.0061 ppm	112.9197 ppm	0.0004 ppm	0.0000 ppm	0.0076 ppm	0.0053 ppm
Concentration per Run 3	0.0232 ppm	0.0054 ppm	112.6001 ppm	0.0010 ppm	0.0012 ppm	0.0054 ppm	0.0021 ppm
Concentration RSD	3.9 %	13.8 %	3.2 %	39.9 %	241.0 %	17.2 %	77.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5789 ppm	0.0033 ppm	0.1192 ppm	0.0011 ppm	0.0003 ppm	0.2585 ppm	0.0044 ppm
Concentration per Run 1	1.5962 ppm	0.0039 ppm	0.1148 ppm	0.0012 ppm	0.0009 ppm	0.2595 ppm	0.0045 ppm
Concentration per Run 2	1.5761 ppm	0.0035 ppm	0.1214 ppm	0.0010 ppm	0.0009 ppm	0.2581 ppm	0.0044 ppm
Concentration per Run 3	1.5645 ppm	0.0026 ppm	0.1213 ppm	0.0011 ppm	-0.0011 ppm	0.2579 ppm	0.0043 ppm
Concentration RSD	1.0 %	19.8 %	3.2 %	6.5 %	456.8 %	0.3 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.6776 %	99.6052 %	101.6309 %	89.6549 %	98.7058 %	101.9135 %
Concentration per Run 1	109.3788 %	99.7015 %	101.6901 %	89.1953 %	98.1889 %	101.9050 %
Concentration per Run 2	103.8025 %	99.3815 %	101.5128 %	89.3628 %	98.7959 %	101.6304 %
Concentration per Run 3	103.8516 %	99.7327 %	101.6898 %	90.4066 %	99.1325 %	102.2051 %
Concentration RSD	3.0 %	0.2 %	0.1 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:52:44 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4914 ppm	0.4966 ppm	0.4795 ppm	0.4825 ppm	0.4752 ppm	0.4692 ppm	0.4916 ppm
Concentration per Run 1	0.4924 ppm	0.4923 ppm	0.4816 ppm	0.4826 ppm	0.4582 ppm	0.4528 ppm	0.4741 ppm
Concentration per Run 2	0.4922 ppm	0.4913 ppm	0.4782 ppm	0.4835 ppm	0.4816 ppm	0.4761 ppm	0.4983 ppm
Concentration per Run 3	0.4896 ppm	0.5062 ppm	0.4786 ppm	0.4814 ppm	0.4857 ppm	0.4787 ppm	0.5024 ppm
Recovery Percentage 1	98.281 %	99.321 %	95.896 %	96.500 %	95.030 %	93.845 %	98.328 %
Concentration RSD	0.3 %	1.7 %	0.4 %	0.2 %	3.1 %	3.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4793 ppm	0.4906 ppm	0.4940 ppm	0.4865 ppm	0.4855 ppm	4.8286 ppm	0.4730 ppm
Concentration per Run 1	0.4792 ppm	0.4904 ppm	0.4959 ppm	0.4869 ppm	0.4692 ppm	4.6224 ppm	0.4742 ppm
Concentration per Run 2	0.4797 ppm	0.4912 ppm	0.4941 ppm	0.4876 ppm	0.4928 ppm	4.8987 ppm	0.4758 ppm
Concentration per Run 3	0.4789 ppm	0.4901 ppm	0.4920 ppm	0.4851 ppm	0.4945 ppm	4.9647 ppm	0.4689 ppm
Recovery Percentage 1	95.854 %	98.117 %	98.807 %	97.307 %	97.100 %	96.571 %	94.598 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.3 %	2.9 %	3.8 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4729 ppm	0.4784 ppm	9.4035 ppm	0.4956 ppm	0.4922 ppm	0.4971 ppm	0.4966 ppm
Concentration per Run 1	0.4559 ppm	0.4762 ppm	9.0818 ppm	0.4954 ppm	0.4920 ppm	0.4978 ppm	0.4955 ppm
Concentration per Run 2	0.4790 ppm	0.4786 ppm	9.5289 ppm	0.4962 ppm	0.4944 ppm	0.4975 ppm	0.4979 ppm
Concentration per Run 3	0.4837 ppm	0.4803 ppm	9.5999 ppm	0.4953 ppm	0.4901 ppm	0.4960 ppm	0.4966 ppm
Recovery Percentage 1	94.575 %	95.675 %	94.035 %	99.120 %	98.432 %	99.413 %	99.328 %
Concentration RSD	3.1 %	0.4 %	3.0 %	0.1 %	0.4 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5504 ppm	0.4831 ppm	0.4623 ppm	0.4703 ppm	0.4877 ppm	0.4883 ppm	0.4935 ppm
Concentration per Run 1	5.5482 ppm	0.4830 ppm	0.4462 ppm	0.4721 ppm	0.4882 ppm	0.4902 ppm	0.4935 ppm
Concentration per Run 2	5.5545 ppm	0.4831 ppm	0.4684 ppm	0.4707 ppm	0.4892 ppm	0.4885 ppm	0.4937 ppm
Concentration per Run 3	5.5485 ppm	0.4832 ppm	0.4723 ppm	0.4680 ppm	0.4858 ppm	0.4860 ppm	0.4934 ppm
Recovery Percentage 1	105.722 %	96.620 %	92.458 %	94.055 %	97.548 %	97.651 %	98.705 %
Concentration RSD	0.1 %	0.0 %	3.0 %	0.4 %	0.4 %	0.4 %	0.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.3823 %	102.4765 %	103.6547 %	96.5680 %	103.3473 %	106.9973 %
Concentration per Run 1	109.6937 %	101.9813 %	103.7551 %	96.9503 %	103.3806 %	106.5031 %
Concentration per Run 2	105.1932 %	102.2271 %	103.6606 %	96.2947 %	103.3214 %	106.7803 %
Concentration per Run 3	104.2600 %	103.2212 %	103.5485 %	96.4589 %	103.3399 %	107.7085 %
Recovery Percentage 1						
Concentration RSD	2.7 %	0.6 %	0.1 %	0.4 %	0.0 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:58:49 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0056 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0003 ppm	0.0001 ppm	-0.0041 ppm
Concentration per Run 2	-0.0009 ppm	0.0056 ppm	-0.0007 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	-0.0008 ppm	0.0113 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	-0.0010 ppm
Recovery Percentage 1	-8.251 %	5.554 %	-1.325 %	2.479 %	0.603 %	1.328 %	-1.955 %
Concentration RSD	84.3 %	104.1 %	871.7 %	14.3 %	357.8 %	111.4 %	93.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0051 ppm	-0.0763 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0041 ppm	-0.0749 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0003 ppm	0.0052 ppm	-0.0854 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0059 ppm	-0.0686 ppm	-0.0018 ppm
Recovery Percentage 1	0.749 %	0.227 %	-5.467 %	2.376 %	10.153 %	-3.052 %	-0.590 %
Concentration RSD	41.2 %	298.6 %	31.6 %	98.5 %	17.1 %	11.1 %	259.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0019 ppm	0.0959 ppm	0.0004 ppm	0.0005 ppm	0.0015 ppm	0.0025 ppm
Concentration per Run 1	0.0006 ppm	0.0022 ppm	0.0953 ppm	0.0005 ppm	0.0009 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 2	-0.0003 ppm	0.0016 ppm	0.0904 ppm	0.0004 ppm	0.0003 ppm	0.0020 ppm	0.0043 ppm
Concentration per Run 3	0.0004 ppm	0.0019 ppm	0.1020 ppm	0.0004 ppm	0.0004 ppm	0.0023 ppm	0.0003 ppm
Recovery Percentage 1	2.576 %	3.778 %	4.795 %	1.725 %	5.349 %	2.929 %	25.379 %
Concentration RSD	187.4 %	16.7 %	6.1 %	19.2 %	58.7 %	78.7 %	80.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	-0.0008 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0011 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0003 ppm	-0.0012 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0008 ppm	0.0006 ppm	-0.0012 ppm
Recovery Percentage 1	0.034 %	-0.408 %	-0.673 %	2.797 %	-4.110 %	3.626 %	-23.245 %
Concentration RSD	118.9 %	58.3 %	123.4 %	38.9 %	32.3 %	58.5 %	2.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2255 %	103.4118 %	104.4791 %	84.5782 %	100.9480 %	103.1534 %
Concentration per Run 1	100.7777 %	103.2274 %	104.3407 %	80.8889 %	100.2855 %	102.8180 %
Concentration per Run 2	103.9385 %	103.4283 %	104.4519 %	85.1324 %	101.0411 %	103.1122 %
Concentration per Run 3	104.9605 %	103.5795 %	104.6448 %	87.7132 %	101.5175 %	103.5300 %
Recovery Percentage 1						
Concentration RSD	2.1 %	0.2 %	0.1 %	4.1 %	0.6 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433022-01 wg1935811
Analysis started at: 6/18/2024 9:05:47 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.7922 ppm	0.0080 ppm	0.0688 ppm	0.1213 ppm	0.0000 ppm	17.6892 ppm
Concentration per Run 1	0.0003 ppm	0.7711 ppm	0.0074 ppm	0.0690 ppm	0.1183 ppm	0.0000 ppm	17.2838 ppm
Concentration per Run 2	0.0002 ppm	0.8079 ppm	0.0090 ppm	0.0688 ppm	0.1231 ppm	0.0000 ppm	17.9226 ppm
Concentration per Run 3	-0.0002 ppm	0.7975 ppm	0.0075 ppm	0.0685 ppm	0.1225 ppm	0.0001 ppm	17.8611 ppm
Concentration RSD	239.0 %	2.4 %	11.2 %	0.4 %	2.2 %	204.9 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0010 ppm	0.0091 ppm	0.0065 ppm	0.0469 ppm	44.9360 ppm	55.2803 ppm	2.2290 ppm
Concentration per Run 1	0.0010 ppm	0.0091 ppm	0.0064 ppm	0.0470 ppm	43.7015 ppm	53.9265 ppm	2.2289 ppm
Concentration per Run 2	0.0010 ppm	0.0090 ppm	0.0066 ppm	0.0467 ppm	45.6512 ppm	56.0663 ppm	2.2251 ppm
Concentration per Run 3	0.0010 ppm	0.0092 ppm	0.0065 ppm	0.0471 ppm	45.4552 ppm	55.8481 ppm	2.2329 ppm
Concentration RSD	1.9 %	1.5 %	1.6 %	0.5 %	2.4 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2626 ppm	0.0299 ppm	60.8242 ppm	0.0776 ppm	0.2608 ppm	0.0108 ppm	0.0042 ppm
Concentration per Run 1	0.2553 ppm	0.0294 ppm	59.3931 ppm	0.0776 ppm	0.2614 ppm	0.0103 ppm	0.0050 ppm
Concentration per Run 2	0.2670 ppm	0.0302 ppm	61.6970 ppm	0.0778 ppm	0.2607 ppm	0.0102 ppm	0.0046 ppm
Concentration per Run 3	0.2654 ppm	0.0302 ppm	61.3826 ppm	0.0773 ppm	0.2603 ppm	0.0119 ppm	0.0031 ppm
Concentration RSD	2.4 %	1.5 %	2.1 %	0.3 %	0.2 %	8.5 %	24.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.9306 ppm	0.0031 ppm	0.0710 ppm	0.0333 ppm	-0.0014 ppm	0.0082 ppm	0.7352 ppm
Concentration per Run 1	5.9474 ppm	0.0030 ppm	0.0693 ppm	0.0335 ppm	-0.0012 ppm	0.0080 ppm	0.7369 ppm
Concentration per Run 2	5.9337 ppm	0.0032 ppm	0.0719 ppm	0.0330 ppm	-0.0022 ppm	0.0081 ppm	0.7353 ppm
Concentration per Run 3	5.9108 ppm	0.0032 ppm	0.0719 ppm	0.0333 ppm	-0.0008 ppm	0.0083 ppm	0.7333 ppm
Concentration RSD	0.3 %	2.9 %	2.1 %	0.8 %	49.9 %	2.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.0233 %	100.1678 %	101.7545 %	95.6059 %	99.4944 %	104.2967 %
Concentration per Run 1	108.6207 %	99.7678 %	101.6387 %	95.4010 %	99.4149 %	104.0670 %
Concentration per Run 2	104.3184 %	100.5273 %	101.9681 %	95.1919 %	99.5225 %	104.6686 %
Concentration per Run 3	105.1307 %	100.2084 %	101.6568 %	96.2249 %	99.5458 %	104.1545 %
Concentration RSD	2.2 %	0.4 %	0.2 %	0.6 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433022-02 wg1935811
Analysis started at: 6/18/2024 9:11:57 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.8487 ppm	0.0034 ppm	0.0802 ppm	0.1913 ppm	0.0000 ppm	38.4842 ppm
Concentration per Run 1	-0.0005 ppm	0.8366 ppm	0.0032 ppm	0.0803 ppm	0.1878 ppm	0.0000 ppm	37.8527 ppm
Concentration per Run 2	-0.0010 ppm	0.8516 ppm	0.0040 ppm	0.0802 ppm	0.1930 ppm	0.0001 ppm	38.7765 ppm
Concentration per Run 3	-0.0003 ppm	0.8581 ppm	0.0030 ppm	0.0802 ppm	0.1930 ppm	0.0000 ppm	38.8233 ppm
Concentration RSD	68.7 %	1.3 %	16.1 %	0.1 %	1.6 %	126.2 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0122 ppm	0.0021 ppm	0.0107 ppm	12.7741 ppm	29.8713 ppm	5.8758 ppm
Concentration per Run 1	0.0003 ppm	0.0123 ppm	0.0022 ppm	0.0108 ppm	12.5401 ppm	29.5038 ppm	5.8929 ppm
Concentration per Run 2	0.0002 ppm	0.0124 ppm	0.0016 ppm	0.0109 ppm	12.8839 ppm	30.0997 ppm	5.8748 ppm
Concentration per Run 3	0.0002 ppm	0.0120 ppm	0.0025 ppm	0.0103 ppm	12.8983 ppm	30.0105 ppm	5.8595 ppm
Concentration RSD	14.2 %	1.9 %	21.4 %	2.8 %	1.6 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5627 ppm	0.0495 ppm	98.8272 ppm	0.1008 ppm	0.0148 ppm	0.0037 ppm	0.0011 ppm
Concentration per Run 1	0.5527 ppm	0.0490 ppm	97.4675 ppm	0.1015 ppm	0.0144 ppm	0.0040 ppm	0.0007 ppm
Concentration per Run 2	0.5686 ppm	0.0495 ppm	99.6722 ppm	0.1006 ppm	0.0164 ppm	0.0034 ppm	0.0014 ppm
Concentration per Run 3	0.5668 ppm	0.0500 ppm	99.3419 ppm	0.1004 ppm	0.0136 ppm	0.0036 ppm	0.0014 ppm
Concentration RSD	1.6 %	1.0 %	1.2 %	0.6 %	9.9 %	8.1 %	35.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.7580 ppm	0.0008 ppm	0.1858 ppm	0.0439 ppm	-0.0007 ppm	0.0054 ppm	0.1166 ppm
Concentration per Run 1	6.7804 ppm	0.0012 ppm	0.1827 ppm	0.0439 ppm	0.0001 ppm	0.0055 ppm	0.1170 ppm
Concentration per Run 2	6.7580 ppm	0.0009 ppm	0.1876 ppm	0.0440 ppm	-0.0022 ppm	0.0052 ppm	0.1166 ppm
Concentration per Run 3	6.7356 ppm	0.0003 ppm	0.1872 ppm	0.0438 ppm	0.0001 ppm	0.0055 ppm	0.1160 ppm
Concentration RSD	0.3 %	59.0 %	1.5 %	0.2 %	207.0 %	3.7 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.3298 %	99.6561 %	101.1458 %	88.7620 %	97.2650 %	101.0454 %
Concentration per Run 1	105.9519 %	99.7428 %	101.2369 %	87.2436 %	97.1153 %	100.8445 %
Concentration per Run 2	103.3468 %	99.8673 %	101.1496 %	88.7840 %	97.2045 %	101.2485 %
Concentration per Run 3	103.6907 %	99.3584 %	101.0508 %	90.2583 %	97.4752 %	101.0431 %
Concentration RSD	1.4 %	0.3 %	0.1 %	1.7 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433022-03 wg1935811
Analysis started at: 6/18/2024 9:18:08 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.6109 ppm	0.0072 ppm	0.0561 ppm	0.1274 ppm	0.0000 ppm	32.4136 ppm
Concentration per Run 1	-0.0004 ppm	0.6129 ppm	0.0074 ppm	0.0561 ppm	0.1288 ppm	0.0000 ppm	32.7991 ppm
Concentration per Run 2	0.0001 ppm	0.6132 ppm	0.0074 ppm	0.0562 ppm	0.1272 ppm	0.0001 ppm	32.3215 ppm
Concentration per Run 3	-0.0006 ppm	0.6065 ppm	0.0067 ppm	0.0559 ppm	0.1262 ppm	0.0000 ppm	32.1203 ppm
Concentration RSD	134.6 %	0.6 %	5.5 %	0.3 %	1.0 %	76.0 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0058 ppm	0.0034 ppm	0.0139 ppm	43.7209 ppm	39.9138 ppm	2.2101 ppm
Concentration per Run 1	0.0008 ppm	0.0059 ppm	0.0033 ppm	0.0135 ppm	44.1263 ppm	40.5029 ppm	2.2201 ppm
Concentration per Run 2	0.0008 ppm	0.0057 ppm	0.0033 ppm	0.0141 ppm	43.6465 ppm	39.7365 ppm	2.2038 ppm
Concentration per Run 3	0.0009 ppm	0.0058 ppm	0.0036 ppm	0.0141 ppm	43.3900 ppm	39.5020 ppm	2.2066 ppm
Concentration RSD	2.1 %	2.4 %	5.3 %	2.6 %	0.9 %	1.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1873 ppm	0.0267 ppm	68.8939 ppm	0.0850 ppm	0.0887 ppm	0.0047 ppm	0.0041 ppm
Concentration per Run 1	0.1891 ppm	0.0263 ppm	69.8419 ppm	0.0854 ppm	0.0900 ppm	0.0029 ppm	0.0032 ppm
Concentration per Run 2	0.1870 ppm	0.0269 ppm	68.6602 ppm	0.0850 ppm	0.0878 ppm	0.0061 ppm	0.0047 ppm
Concentration per Run 3	0.1857 ppm	0.0268 ppm	68.1796 ppm	0.0846 ppm	0.0882 ppm	0.0049 ppm	0.0044 ppm
Concentration RSD	0.9 %	1.3 %	1.2 %	0.5 %	1.4 %	34.6 %	19.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3826 ppm	0.0048 ppm	0.1137 ppm	0.0268 ppm	-0.0003 ppm	0.0062 ppm	0.2030 ppm
Concentration per Run 1	5.3908 ppm	0.0051 ppm	0.1147 ppm	0.0273 ppm	-0.0005 ppm	0.0063 ppm	0.2034 ppm
Concentration per Run 2	5.3839 ppm	0.0046 ppm	0.1135 ppm	0.0263 ppm	0.0003 ppm	0.0060 ppm	0.2032 ppm
Concentration per Run 3	5.3729 ppm	0.0046 ppm	0.1130 ppm	0.0270 ppm	-0.0008 ppm	0.0063 ppm	0.2025 ppm
Concentration RSD	0.2 %	6.5 %	0.8 %	1.9 %	188.5 %	2.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.4271 %	100.4251 %	101.8739 %	93.0277 %	99.5704 %	103.8798 %
Concentration per Run 1	102.3584 %	100.1363 %	102.0166 %	90.5142 %	99.2476 %	103.3013 %
Concentration per Run 2	103.8357 %	100.4991 %	101.7639 %	93.9504 %	99.5098 %	103.9841 %
Concentration per Run 3	104.0872 %	100.6401 %	101.8412 %	94.6184 %	99.9539 %	104.3541 %
Concentration RSD	0.9 %	0.3 %	0.1 %	2.4 %	0.4 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433022-04 wg1935811
Analysis started at: 6/18/2024 9:24:19 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0266 ppm	0.0008 ppm	0.0659 ppm	0.0727 ppm	0.0000 ppm	34.4793 ppm
Concentration per Run 1	0.0002 ppm	0.0153 ppm	-0.0012 ppm	0.0659 ppm	0.0710 ppm	0.0000 ppm	33.7165 ppm
Concentration per Run 2	-0.0004 ppm	0.0424 ppm	-0.0001 ppm	0.0659 ppm	0.0734 ppm	0.0000 ppm	34.7829 ppm
Concentration per Run 3	-0.0006 ppm	0.0220 ppm	0.0036 ppm	0.0658 ppm	0.0736 ppm	0.0000 ppm	34.9385 ppm
Concentration RSD	144.9 %	53.1 %	326.8 %	0.1 %	2.0 %	23.8 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0015 ppm	0.0005 ppm	0.0013 ppm	3.0313 ppm	11.1817 ppm	4.2397 ppm
Concentration per Run 1	0.0001 ppm	0.0016 ppm	0.0007 ppm	0.0010 ppm	2.9578 ppm	10.9256 ppm	4.2652 ppm
Concentration per Run 2	0.0000 ppm	0.0015 ppm	0.0003 ppm	0.0014 ppm	3.0584 ppm	11.2942 ppm	4.2118 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	0.0004 ppm	0.0015 ppm	3.0777 ppm	11.3253 ppm	4.2421 ppm
Concentration RSD	91.6 %	9.5 %	43.2 %	19.2 %	2.1 %	2.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2813 ppm	0.0012 ppm	73.5407 ppm	0.0995 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.2741 ppm	0.0012 ppm	72.0097 ppm	0.0999 ppm	0.0004 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.2838 ppm	0.0010 ppm	74.2415 ppm	0.0991 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.2860 ppm	0.0013 ppm	74.3710 ppm	0.0996 ppm	0.0006 ppm	0.0007 ppm	-0.0007 ppm
Concentration RSD	2.3 %	12.3 %	1.8 %	0.4 %	40.6 %	2,896.0 %	528.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.8147 ppm	0.0008 ppm	0.1302 ppm	0.0014 ppm	-0.0003 ppm	0.0003 ppm	0.0051 ppm
Concentration per Run 1	1.8248 ppm	0.0006 ppm	0.1272 ppm	0.0015 ppm	-0.0006 ppm	0.0002 ppm	0.0051 ppm
Concentration per Run 2	1.8125 ppm	0.0006 ppm	0.1315 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0051 ppm
Concentration per Run 3	1.8067 ppm	0.0013 ppm	0.1318 ppm	0.0013 ppm	-0.0004 ppm	0.0006 ppm	0.0050 ppm
Concentration RSD	0.5 %	50.3 %	2.0 %	10.2 %	80.7 %	90.5 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.5061 %	100.0552 %	101.7584 %	87.7944 %	97.6203 %	100.6042 %
Concentration per Run 1	110.0119 %	100.1026 %	101.8554 %	87.0467 %	97.2764 %	100.3215 %
Concentration per Run 2	106.2783 %	100.6387 %	101.4815 %	87.2460 %	97.6478 %	101.2002 %
Concentration per Run 3	106.2281 %	99.4243 %	101.9382 %	89.0905 %	97.9366 %	100.2910 %
Concentration RSD	2.0 %	0.6 %	0.2 %	1.3 %	0.3 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433110-01 wg1935811
Analysis started at: 6/18/2024 9:30:34 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0051 ppm	0.0013 ppm	0.0039 ppm	0.0000 ppm	0.0000 ppm	0.0259 ppm
Concentration per Run 1	-0.0007 ppm	-0.0004 ppm	0.0006 ppm	0.0036 ppm	-0.0001 ppm	0.0000 ppm	0.0242 ppm
Concentration per Run 2	-0.0003 ppm	0.0012 ppm	0.0018 ppm	0.0042 ppm	0.0002 ppm	0.0000 ppm	0.0316 ppm
Concentration per Run 3	-0.0007 ppm	0.0144 ppm	0.0014 ppm	0.0039 ppm	0.0000 ppm	0.0000 ppm	0.0220 ppm
Concentration RSD	38.7 %	159.4 %	51.0 %	7.8 %	654.6 %	226.5 %	19.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0063 ppm	-0.0696 ppm	0.0044 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0066 ppm	-0.0773 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0064 ppm	-0.0359 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0004 ppm	0.0061 ppm	-0.0957 ppm	0.0040 ppm
Concentration RSD	878.6 %	610.1 %	144.6 %	21.8 %	4.4 %	44.0 %	44.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.1337 ppm	0.0003 ppm	0.0010 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.1352 ppm	0.0004 ppm	0.0023 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.1290 ppm	0.0004 ppm	0.0001 ppm	-0.0009 ppm	0.0036 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.1369 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm
Concentration RSD	21.7 %	45.4 %	3.1 %	29.3 %	108.8 %	72.1 %	96.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0824 ppm	-0.0014 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0824 ppm	-0.0013 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0825 ppm	-0.0021 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	0.0824 ppm	-0.0009 ppm	0.0003 ppm	0.0004 ppm	-0.0003 ppm	0.0003 ppm	0.0006 ppm
Concentration RSD	0.1 %	44.0 %	27.1 %	29.4 %	2.1 %	94.5 %	9.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	110.3421 %	105.2859 %	106.2844 %	87.2516 %	103.1200 %	103.7271 %
Concentration per Run 1	115.8483 %	105.0984 %	106.6636 %	87.5270 %	102.9628 %	103.2159 %
Concentration per Run 2	108.0984 %	105.3950 %	105.9426 %	86.7122 %	102.8709 %	103.7815 %
Concentration per Run 3	107.0796 %	105.3642 %	106.2471 %	87.5157 %	103.5263 %	104.1839 %
Concentration RSD	4.3 %	0.2 %	0.3 %	0.5 %	0.3 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: eL2433110-02 wg1935811
Analysis started at: 6/18/2024 9:36:55 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0282 ppm	0.0154 ppm	0.0310 ppm	0.0009 ppm	0.0000 ppm	0.2690 ppm
Concentration per Run 1	-0.0008 ppm	0.0278 ppm	0.0164 ppm	0.0304 ppm	0.0009 ppm	0.0000 ppm	0.2512 ppm
Concentration per Run 2	-0.0006 ppm	0.0229 ppm	0.0148 ppm	0.0311 ppm	0.0009 ppm	0.0001 ppm	0.2830 ppm
Concentration per Run 3	-0.0003 ppm	0.0340 ppm	0.0149 ppm	0.0314 ppm	0.0008 ppm	0.0000 ppm	0.2728 ppm
Concentration RSD	38.5 %	19.6 %	6.1 %	1.7 %	11.4 %	162.8 %	6.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0189 ppm	0.0026 ppm	0.0517 ppm	268.2441 ppm	0.0497 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0188 ppm	0.0024 ppm	0.0507 ppm	264.5408 ppm	0.0512 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0189 ppm	0.0027 ppm	0.0562 ppm	269.7711 ppm	0.0485 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0189 ppm	0.0028 ppm	0.0481 ppm	270.4204 ppm	0.0494 ppm
Concentration RSD	43.7 %	14.8 %	0.4 %	8.0 %	8.1 %	1.2 %	2.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0037 ppm	0.0022 ppm	**924.3868 ppm**	0.0029 ppm	0.0022 ppm	0.0116 ppm	0.0120 ppm
Concentration per Run 1	0.0035 ppm	0.0024 ppm	942.6592 ppm	0.0025 ppm	0.0019 ppm	0.0117 ppm	0.0131 ppm
Concentration per Run 2	0.0034 ppm	0.0024 ppm	930.5967 ppm	0.0032 ppm	0.0019 ppm	0.0122 ppm	0.0118 ppm
Concentration per Run 3	0.0040 ppm	0.0019 ppm	899.9044 ppm	0.0029 ppm	0.0026 ppm	0.0110 ppm	0.0112 ppm
Concentration RSD	9.2 %	12.3 %	2.4 %	11.3 %	18.7 %	5.1 %	8.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	**23.3425 ppm**	0.0025 ppm	0.0055 ppm	0.0194 ppm	-0.0062 ppm	0.0006 ppm	0.0205 ppm
Concentration per Run 1	24.5959 ppm	0.0031 ppm	0.0055 ppm	0.0199 ppm	-0.0072 ppm	0.0010 ppm	0.0203 ppm
Concentration per Run 2	23.2296 ppm	0.0022 ppm	0.0055 ppm	0.0195 ppm	-0.0047 ppm	0.0003 ppm	0.0205 ppm
Concentration per Run 3	22.2018 ppm	0.0021 ppm	0.0056 ppm	0.0189 ppm	-0.0067 ppm	0.0006 ppm	0.0208 ppm
Concentration RSD	5.1 %	22.0 %	1.0 %	2.6 %	21.6 %	50.0 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	92.6490 %	75.8846 %	79.6088 %	89.6873 %	73.8825 %	80.7482 %
Concentration per Run 1	95.1973 %	74.5676 %	80.0271 %	92.5307 %	74.4266 %	79.5940 %
Concentration per Run 2	91.7806 %	75.4479 %	80.0714 %	89.1752 %	74.2147 %	80.3590 %
Concentration per Run 3	90.9692 %	77.6383 %	78.7279 %	87.3559 %	73.0062 %	82.2916 %
Concentration RSD	2.4 %	2.1 %	1.0 %	2.9 %	1.0 %	1.7 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433110-03 wg1935811
Analysis started at: 6/18/2024 9:43:19 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.1281 ppm	0.2211 ppm	0.0169 ppm	-0.0002 ppm	0.0000 ppm	0.0968 ppm
Concentration per Run 1	-0.0003 ppm	0.1381 ppm	0.2196 ppm	0.0168 ppm	-0.0001 ppm	0.0000 ppm	0.0947 ppm
Concentration per Run 2	-0.0003 ppm	0.1254 ppm	0.2219 ppm	0.0168 ppm	-0.0001 ppm	0.0000 ppm	0.0968 ppm
Concentration per Run 3	-0.0005 ppm	0.1210 ppm	0.2218 ppm	0.0171 ppm	-0.0003 ppm	-0.0001 ppm	0.0990 ppm
Concentration RSD	31.6 %	6.9 %	0.6 %	0.9 %	41.8 %	164.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0012 ppm	0.0038 ppm	0.0047 ppm	0.0352 ppm	0.0749 ppm	0.9127 ppm	0.0142 ppm
Concentration per Run 1	-0.0012 ppm	0.0038 ppm	0.0048 ppm	0.0356 ppm	0.0767 ppm	1.0713 ppm	0.0130 ppm
Concentration per Run 2	-0.0011 ppm	0.0039 ppm	0.0044 ppm	0.0349 ppm	0.0744 ppm	0.8971 ppm	0.0150 ppm
Concentration per Run 3	-0.0012 ppm	0.0037 ppm	0.0048 ppm	0.0351 ppm	0.0735 ppm	0.7696 ppm	0.0145 ppm
Concentration RSD	2.9 %	3.1 %	4.3 %	1.1 %	2.2 %	16.6 %	7.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0030 ppm	0.0074 ppm	0.8290 ppm	0.0025 ppm	-0.0065 ppm	0.0504 ppm	0.5665 ppm
Concentration per Run 1	0.0033 ppm	0.0075 ppm	0.9204 ppm	0.0027 ppm	-0.0058 ppm	0.0508 ppm	0.5688 ppm
Concentration per Run 2	0.0024 ppm	0.0072 ppm	0.8190 ppm	0.0024 ppm	-0.0066 ppm	0.0501 ppm	0.5704 ppm
Concentration per Run 3	0.0032 ppm	0.0074 ppm	0.7476 ppm	0.0026 ppm	-0.0070 ppm	0.0502 ppm	0.5604 ppm
Concentration RSD	15.9 %	2.0 %	10.5 %	6.2 %	9.6 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1241 ppm	0.0808 ppm	0.0009 ppm	0.0002 ppm	-0.5370 ppm	0.0000 ppm	0.0343 ppm
Concentration per Run 1	0.1287 ppm	0.0807 ppm	0.0009 ppm	0.0005 ppm	-0.5388 ppm	-0.0004 ppm	0.0344 ppm
Concentration per Run 2	0.1251 ppm	0.0810 ppm	0.0011 ppm	0.0001 ppm	-0.5383 ppm	0.0003 ppm	0.0344 ppm
Concentration per Run 3	0.1186 ppm	0.0808 ppm	0.0008 ppm	-0.0001 ppm	-0.5337 ppm	0.0001 ppm	0.0341 ppm
Concentration RSD	4.1 %	0.2 %	16.9 %	173.4 %	0.5 %	5,406.0 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	93.3230 %	90.7116 %	95.5615 %	73.3612 %	83.6659 %	90.2746 %
Concentration per Run 1	91.8165 %	91.0235 %	96.5235 %	70.2844 %	83.5861 %	89.9361 %
Concentration per Run 2	93.7342 %	90.6041 %	95.3669 %	73.9894 %	83.2565 %	90.2997 %
Concentration per Run 3	94.4183 %	90.5071 %	94.7943 %	75.8098 %	84.1552 %	90.5882 %
Concentration RSD	1.4 %	0.3 %	0.9 %	3.8 %	0.5 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:49:25 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4905 ppm	0.4934 ppm	0.4806 ppm	0.4799 ppm	0.4707 ppm	0.4701 ppm	0.4834 ppm
Concentration per Run 1	0.4904 ppm	0.4812 ppm	0.4835 ppm	0.4805 ppm	0.4546 ppm	0.4539 ppm	0.4678 ppm
Concentration per Run 2	0.4905 ppm	0.4986 ppm	0.4805 ppm	0.4795 ppm	0.4769 ppm	0.4766 ppm	0.4825 ppm
Concentration per Run 3	0.4906 ppm	0.5003 ppm	0.4779 ppm	0.4797 ppm	0.4805 ppm	0.4799 ppm	0.5000 ppm
Recovery Percentage 1	98.100 %	98.675 %	96.120 %	95.980 %	94.136 %	94.021 %	96.682 %
Concentration RSD	0.0 %	2.1 %	0.6 %	0.1 %	3.0 %	3.0 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4789 ppm	0.4914 ppm	0.4935 ppm	0.4856 ppm	0.4861 ppm	5.1999 ppm	0.4710 ppm
Concentration per Run 1	0.4797 ppm	0.4921 ppm	0.4939 ppm	0.4857 ppm	0.4721 ppm	5.0133 ppm	0.4689 ppm
Concentration per Run 2	0.4793 ppm	0.4921 ppm	0.4923 ppm	0.4841 ppm	0.4921 ppm	5.2628 ppm	0.4709 ppm
Concentration per Run 3	0.4776 ppm	0.4901 ppm	0.4944 ppm	0.4868 ppm	0.4941 ppm	5.3238 ppm	0.4733 ppm
Recovery Percentage 1	95.771 %	98.289 %	98.710 %	97.110 %	97.219 %	103.999 %	94.208 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %	2.5 %	3.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4705 ppm	0.4760 ppm	10.3924 ppm	0.4949 ppm	0.4912 ppm	0.4953 ppm	0.4976 ppm
Concentration per Run 1	0.4526 ppm	0.4742 ppm	10.0353 ppm	0.4954 ppm	0.4919 ppm	0.4955 ppm	0.5000 ppm
Concentration per Run 2	0.4780 ppm	0.4763 ppm	10.5435 ppm	0.4953 ppm	0.4915 ppm	0.4936 ppm	0.4965 ppm
Concentration per Run 3	0.4808 ppm	0.4776 ppm	10.5984 ppm	0.4941 ppm	0.4903 ppm	0.4966 ppm	0.4963 ppm
Recovery Percentage 1	94.095 %	95.207 %	103.924 %	98.988 %	98.245 %	99.052 %	99.526 %
Concentration RSD	3.3 %	0.4 %	3.0 %	0.1 %	0.2 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5035 ppm	0.4814 ppm	0.4594 ppm	0.4727 ppm	0.4781 ppm	0.4869 ppm	0.4927 ppm
Concentration per Run 1	5.5178 ppm	0.4821 ppm	0.4438 ppm	0.4719 ppm	0.4785 ppm	0.4875 ppm	0.4936 ppm
Concentration per Run 2	5.5019 ppm	0.4810 ppm	0.4656 ppm	0.4732 ppm	0.4787 ppm	0.4854 ppm	0.4931 ppm
Concentration per Run 3	5.4909 ppm	0.4811 ppm	0.4688 ppm	0.4731 ppm	0.4772 ppm	0.4877 ppm	0.4916 ppm
Recovery Percentage 1	104.829 %	96.283 %	91.877 %	94.545 %	95.621 %	97.374 %	98.548 %
Concentration RSD	0.2 %	0.1 %	3.0 %	0.1 %	0.2 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.0981 %	101.5234 %	102.7974 %	97.1270 %	102.5636 %	105.5263 %
Concentration per Run 1	110.4914 %	101.4615 %	102.8164 %	97.8603 %	102.4072 %	105.4152 %
Concentration per Run 2	105.6507 %	101.3965 %	102.7770 %	96.7465 %	102.4108 %	105.3391 %
Concentration per Run 3	105.1522 %	101.7121 %	102.7987 %	96.7743 %	102.8728 %	105.8248 %
Recovery Percentage 1						
Concentration RSD	2.8 %	0.2 %	0.0 %	0.7 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:55:29 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0091 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	-0.0010 ppm	0.0066 ppm	0.0025 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 2	0.0000 ppm	0.0234 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0026 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0072 ppm
Recovery Percentage 1	-4.671 %	9.120 %	26.921 %	0.016 %	0.022 %	0.669 %	-3.433 %
Concentration RSD	173.5 %	145.0 %	111.3 %	2,153.4 %	3,361.3 %	46.8 %	132.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0041 ppm	0.0525 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0029 ppm	0.0517 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0687 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0056 ppm	0.0370 ppm	0.0013 ppm
Recovery Percentage 1	0.683 %	0.226 %	1.331 %	1.494 %	8.138 %	2.099 %	0.059 %
Concentration RSD	32.7 %	497.7 %	172.5 %	134.4 %	33.6 %	30.3 %	2,729.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0012 ppm	0.5682 ppm	0.0004 ppm	0.0007 ppm	0.0016 ppm	0.0024 ppm
Concentration per Run 1	0.0006 ppm	0.0014 ppm	0.5433 ppm	0.0003 ppm	0.0010 ppm	0.0027 ppm	0.0035 ppm
Concentration per Run 2	0.0002 ppm	0.0011 ppm	0.5804 ppm	0.0004 ppm	0.0005 ppm	-0.0005 ppm	0.0020 ppm
Concentration per Run 3	0.0004 ppm	0.0010 ppm	0.5809 ppm	0.0006 ppm	0.0006 ppm	0.0025 ppm	0.0016 ppm
Recovery Percentage 1	4.104 %	2.348 %	28.410 %	1.690 %	6.808 %	3.165 %	23.716 %
Concentration RSD	50.6 %	19.4 %	3.8 %	34.5 %	35.9 %	112.8 %	42.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0017 ppm	-0.0006 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0011 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	0.0027 ppm	-0.0013 ppm	0.0000 ppm	0.0006 ppm	-0.0019 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 3	0.0014 ppm	-0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	-0.0011 ppm
Recovery Percentage 1	0.345 %	-1.147 %	-0.577 %	1.187 %	-0.469 %	1.747 %	-22.654 %
Concentration RSD	52.0 %	115.0 %	300.8 %	483.9 %	1,688.2 %	116.7 %	5.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	107.3591 %	103.2061 %	104.4868 %	87.6318 %	101.7520 %	102.8960 %
Concentration per Run 1	111.1985 %	103.3923 %	104.6600 %	88.1025 %	101.5819 %	102.6076 %
Concentration per Run 2	105.5843 %	103.3658 %	104.5910 %	86.5513 %	101.9374 %	103.0052 %
Concentration per Run 3	105.2945 %	102.8601 %	104.2096 %	88.2416 %	101.7367 %	103.0752 %
Recovery Percentage 1						
Concentration RSD	3.1 %	0.3 %	0.2 %	1.1 %	0.2 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: WG1935323-2 wg1935323
Analysis started at: 6/18/2024 10:12:33 PM
Comments <Comment>
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0491 ppm	1.9310 ppm	0.1156 ppm	0.9340 ppm	1.8793 ppm	0.0466 ppm	9.8097 ppm
Concentration per Run 1	0.0495 ppm	1.9425 ppm	0.1156 ppm	0.9418 ppm	1.8882 ppm	0.0467 ppm	9.8639 ppm
Concentration per Run 2	0.0489 ppm	1.9354 ppm	0.1149 ppm	0.9302 ppm	1.8705 ppm	0.0466 ppm	9.7494 ppm
Concentration per Run 3	0.0489 ppm	1.9151 ppm	0.1163 ppm	0.9300 ppm	1.8794 ppm	0.0466 ppm	9.8159 ppm
Concentration RSD	0.7 %	0.7 %	0.6 %	0.7 %	0.5 %	0.2 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0510 ppm	0.4641 ppm	0.1929 ppm	0.2424 ppm	0.9459 ppm	9.6107 ppm	9.4648 ppm
Concentration per Run 1	0.0514 ppm	0.4682 ppm	0.1941 ppm	0.2434 ppm	0.9492 ppm	9.7297 ppm	9.4970 ppm
Concentration per Run 2	0.0508 ppm	0.4625 ppm	0.1923 ppm	0.2422 ppm	0.9431 ppm	9.5693 ppm	9.4610 ppm
Concentration per Run 3	0.0507 ppm	0.4616 ppm	0.1921 ppm	0.2415 ppm	0.9453 ppm	9.5332 ppm	9.4364 ppm
Concentration RSD	0.7 %	0.8 %	0.6 %	0.4 %	0.3 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4773 ppm	0.8934 ppm	9.5879 ppm	0.4749 ppm	0.5163 ppm	0.4740 ppm	0.1185 ppm
Concentration per Run 1	0.4790 ppm	0.8903 ppm	9.6310 ppm	0.4791 ppm	0.5213 ppm	0.4746 ppm	0.1183 ppm
Concentration per Run 2	0.4765 ppm	0.8915 ppm	9.5590 ppm	0.4741 ppm	0.5146 ppm	0.4736 ppm	0.1181 ppm
Concentration per Run 3	0.4765 ppm	0.8984 ppm	9.5737 ppm	0.4716 ppm	0.5132 ppm	0.4739 ppm	0.1193 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %	0.8 %	0.8 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0018 ppm	0.9227 ppm	0.9038 ppm	0.9446 ppm	0.1125 ppm	0.4812 ppm	0.4772 ppm
Concentration per Run 1	1.0109 ppm	0.9299 ppm	0.9088 ppm	0.9466 ppm	0.1135 ppm	0.4827 ppm	0.4807 ppm
Concentration per Run 2	0.9988 ppm	0.9193 ppm	0.8995 ppm	0.9451 ppm	0.1125 ppm	0.4806 ppm	0.4762 ppm
Concentration per Run 3	0.9956 ppm	0.9190 ppm	0.9032 ppm	0.9422 ppm	0.1116 ppm	0.4804 ppm	0.4747 ppm
Concentration RSD	0.8 %	0.7 %	0.5 %	0.2 %	0.8 %	0.3 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9947 %	103.4394 %	104.6222 %	87.7097 %	103.1021 %	104.5087 %
Concentration per Run 1	103.8329 %	103.1208 %	104.5480 %	85.0584 %	102.3876 %	104.0013 %
Concentration per Run 2	103.9067 %	103.3849 %	104.7461 %	87.8573 %	103.4730 %	104.3658 %
Concentration per Run 3	104.2446 %	103.8124 %	104.5724 %	90.2134 %	103.4456 %	105.1590 %
Concentration RSD	0.2 %	0.3 %	0.1 %	2.9 %	0.6 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: eL2433110-02d5 wg1935811
Analysis started at: 6/18/2024 10:18:40 PM
Comments <Comment>
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0010 ppm	0.0209 ppm	0.0051 ppm	0.0071 ppm	0.0000 ppm	0.0000 ppm	0.0681 ppm
Concentration per Run 1	-0.0010 ppm	0.0150 ppm	0.0049 ppm	0.0067 ppm	-0.0001 ppm	-0.0001 ppm	0.0679 ppm
Concentration per Run 2	-0.0012 ppm	0.0307 ppm	0.0060 ppm	0.0071 ppm	0.0001 ppm	0.0001 ppm	0.0618 ppm
Concentration per Run 3	-0.0008 ppm	0.0169 ppm	0.0045 ppm	0.0074 ppm	0.0001 ppm	0.0001 ppm	0.0746 ppm
Concentration RSD	19.3 %	41.1 %	14.8 %	4.8 %	189.1 %	292.3 %	9.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0034 ppm	0.0013 ppm	0.0115 ppm	59.4248 ppm	0.0100 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0036 ppm	0.0012 ppm	0.0111 ppm	59.2485 ppm	0.0101 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0035 ppm	0.0018 ppm	0.0117 ppm	60.0739 ppm	0.0104 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0031 ppm	0.0008 ppm	0.0117 ppm	58.9521 ppm	0.0094 ppm
Concentration RSD	547.3 %	1,347.6 %	8.3 %	41.8 %	3.0 %	1.0 %	5.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0044 ppm	708.8036 ppm	0.0006 ppm	-0.0010 ppm	0.0062 ppm	0.0047 ppm
Concentration per Run 1	0.0009 ppm	0.0051 ppm	719.1973 ppm	0.0007 ppm	-0.0017 ppm	0.0071 ppm	0.0048 ppm
Concentration per Run 2	0.0015 ppm	0.0043 ppm	718.9020 ppm	0.0006 ppm	-0.0002 ppm	0.0070 ppm	0.0064 ppm
Concentration per Run 3	0.0009 ppm	0.0039 ppm	688.3114 ppm	0.0005 ppm	-0.0010 ppm	0.0044 ppm	0.0030 ppm
Concentration RSD	29.5 %	13.0 %	2.5 %	19.7 %	79.1 %	24.8 %	35.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1989 ppm	0.0023 ppm	0.0011 ppm	0.0041 ppm	-0.0008 ppm	-0.0001 ppm	0.0046 ppm
Concentration per Run 1	1.2133 ppm	0.0023 ppm	0.0012 ppm	0.0045 ppm	0.0002 ppm	-0.0002 ppm	0.0046 ppm
Concentration per Run 2	1.2005 ppm	0.0019 ppm	0.0011 ppm	0.0042 ppm	-0.0015 ppm	0.0002 ppm	0.0046 ppm
Concentration per Run 3	1.1829 ppm	0.0027 ppm	0.0010 ppm	0.0038 ppm	-0.0009 ppm	-0.0003 ppm	0.0047 ppm
Concentration RSD	1.3 %	17.2 %	10.0 %	8.7 %	114.1 %	243.7 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	98.6157 %	90.1739 %	93.6724 %	92.8571 %	88.3363 %	94.1933 %
Concentration per Run 1	99.7766 %	89.8206 %	93.4857 %	94.1074 %	88.0787 %	93.8458 %
Concentration per Run 2	96.8357 %	90.2529 %	93.7190 %	91.2724 %	88.7159 %	94.2441 %
Concentration per Run 3	99.2349 %	90.4483 %	93.8126 %	93.1915 %	88.2142 %	94.4901 %
Concentration RSD	1.6 %	0.4 %	0.2 %	1.6 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433110-02d10 wg1935811
Analysis started at: 6/18/2024 10:33:27 PM
Comments <Comment>
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0099 ppm	0.0036 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0432 ppm
Concentration per Run 1	-0.0005 ppm	0.0023 ppm	0.0040 ppm	0.0029 ppm	0.0000 ppm	0.0001 ppm	0.0369 ppm
Concentration per Run 2	-0.0004 ppm	0.0181 ppm	0.0031 ppm	0.0031 ppm	0.0000 ppm	0.0000 ppm	0.0419 ppm
Concentration per Run 3	-0.0004 ppm	0.0094 ppm	0.0037 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0510 ppm
Concentration RSD	8.2 %	79.8 %	13.4 %	7.5 %	41.6 %	95.8 %	16.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0012 ppm	0.0008 ppm	0.0076 ppm	29.5361 ppm	0.0056 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0081 ppm	28.7724 ppm	0.0063 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0009 ppm	0.0077 ppm	29.7923 ppm	0.0058 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0013 ppm	0.0069 ppm	30.0437 ppm	0.0046 ppm
Concentration RSD	260.0 %	185.2 %	37.6 %	53.8 %	7.5 %	2.3 %	16.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0004 ppm	429.3793 ppm	0.0006 ppm	-0.0001 ppm	0.0019 ppm	0.0029 ppm
Concentration per Run 1	0.0007 ppm	0.0006 ppm	422.6806 ppm	0.0006 ppm	0.0007 ppm	0.0022 ppm	0.0004 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	432.0947 ppm	0.0005 ppm	-0.0008 ppm	0.0010 ppm	0.0033 ppm
Concentration per Run 3	0.0014 ppm	0.0004 ppm	433.3625 ppm	0.0006 ppm	0.0000 ppm	0.0026 ppm	0.0050 ppm
Concentration RSD	29.3 %	76.1 %	1.4 %	13.0 %	1,511.5 %	40.8 %	79.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4069 ppm	0.0002 ppm	0.0006 ppm	0.0018 ppm	-0.0012 ppm	0.0001 ppm	0.0028 ppm
Concentration per Run 1	0.4146 ppm	0.0009 ppm	0.0005 ppm	0.0017 ppm	-0.0017 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 2	0.4044 ppm	-0.0005 ppm	0.0006 ppm	0.0019 ppm	0.0000 ppm	-0.0002 ppm	0.0028 ppm
Concentration per Run 3	0.4015 ppm	0.0000 ppm	0.0006 ppm	0.0019 ppm	-0.0018 ppm	0.0003 ppm	0.0028 ppm
Concentration RSD	1.7 %	438.9 %	11.4 %	7.4 %	88.2 %	345.0 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.4345 %	95.0175 %	97.7651 %	102.9529 %	93.5446 %	99.1847 %
Concentration per Run 1	106.2356 %	94.9930 %	97.6166 %	108.0337 %	93.0885 %	99.0458 %
Concentration per Run 2	102.5321 %	95.3820 %	97.6928 %	101.8129 %	93.4485 %	99.5701 %
Concentration per Run 3	101.5359 %	94.6777 %	97.9858 %	99.0120 %	94.0968 %	98.9381 %
Concentration RSD	2.4 %	0.4 %	0.2 %	4.5 %	0.5 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:39:52 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4902 ppm	0.4891 ppm	0.4760 ppm	0.4772 ppm	0.4784 ppm	0.4803 ppm	0.5002 ppm
Concentration per Run 1	0.4900 ppm	0.4751 ppm	0.4738 ppm	0.4776 ppm	0.4599 ppm	0.4608 ppm	0.4803 ppm
Concentration per Run 2	0.4901 ppm	0.5043 ppm	0.4771 ppm	0.4778 ppm	0.4954 ppm	0.4973 ppm	0.5253 ppm
Concentration per Run 3	0.4906 ppm	0.4878 ppm	0.4770 ppm	0.4763 ppm	0.4800 ppm	0.4827 ppm	0.4951 ppm
Recovery Percentage 1	98.044 %	97.812 %	95.193 %	95.445 %	95.689 %	96.055 %	100.039 %
Concentration RSD	0.1 %	3.0 %	0.4 %	0.2 %	3.7 %	3.8 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4783 ppm	0.4893 ppm	0.4930 ppm	0.4842 ppm	0.4970 ppm	4.9568 ppm	0.4733 ppm
Concentration per Run 1	0.4786 ppm	0.4900 ppm	0.4923 ppm	0.4828 ppm	0.4767 ppm	4.7818 ppm	0.4701 ppm
Concentration per Run 2	0.4787 ppm	0.4893 ppm	0.4925 ppm	0.4837 ppm	0.5126 ppm	5.1300 ppm	0.4744 ppm
Concentration per Run 3	0.4778 ppm	0.4887 ppm	0.4943 ppm	0.4861 ppm	0.5018 ppm	4.9584 ppm	0.4752 ppm
Recovery Percentage 1	95.669 %	97.864 %	98.609 %	96.844 %	99.407 %	99.136 %	94.652 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.4 %	3.7 %	3.5 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4808 ppm	0.4734 ppm	9.7753 ppm	0.4913 ppm	0.4879 ppm	0.4911 ppm	0.4885 ppm
Concentration per Run 1	0.4617 ppm	0.4714 ppm	9.4124 ppm	0.4922 ppm	0.4888 ppm	0.4922 ppm	0.4897 ppm
Concentration per Run 2	0.4976 ppm	0.4737 ppm	10.1308 ppm	0.4921 ppm	0.4879 ppm	0.4893 ppm	0.4892 ppm
Concentration per Run 3	0.4829 ppm	0.4752 ppm	9.7827 ppm	0.4895 ppm	0.4869 ppm	0.4919 ppm	0.4865 ppm
Recovery Percentage 1	96.150 %	94.683 %	97.753 %	98.253 %	97.575 %	98.229 %	97.690 %
Concentration RSD	3.8 %	0.4 %	3.7 %	0.3 %	0.2 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4330 ppm	0.4818 ppm	0.4669 ppm	0.4722 ppm	0.4832 ppm	0.4853 ppm	0.4908 ppm
Concentration per Run 1	5.4359 ppm	0.4828 ppm	0.4488 ppm	0.4717 ppm	0.4829 ppm	0.4854 ppm	0.4913 ppm
Concentration per Run 2	5.4355 ppm	0.4811 ppm	0.4832 ppm	0.4709 ppm	0.4848 ppm	0.4843 ppm	0.4910 ppm
Concentration per Run 3	5.4278 ppm	0.4816 ppm	0.4688 ppm	0.4739 ppm	0.4820 ppm	0.4863 ppm	0.4900 ppm
Recovery Percentage 1	103.487 %	96.366 %	93.386 %	94.434 %	96.641 %	97.068 %	98.152 %
Concentration RSD	0.1 %	0.2 %	3.7 %	0.3 %	0.3 %	0.2 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.1657 %	101.7919 %	102.9881 %	95.7393 %	103.2514 %	105.7466 %
Concentration per Run 1	108.7219 %	101.8437 %	103.1968 %	97.9148 %	103.3034 %	105.7375 %
Concentration per Run 2	101.7887 %	102.2101 %	102.8273 %	93.2930 %	103.0929 %	106.2300 %
Concentration per Run 3	104.9864 %	101.3219 %	102.9401 %	96.0102 %	103.3578 %	105.2724 %
Recovery Percentage 1						
Concentration RSD	3.3 %	0.4 %	0.2 %	2.4 %	0.1 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:45:57 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0068 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0437 ppm
Concentration per Run 1	-0.0001 ppm	0.0032 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0296 ppm
Concentration per Run 2	-0.0002 ppm	0.0145 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0422 ppm
Concentration per Run 3	-0.0003 ppm	0.0029 ppm	0.0019 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0591 ppm
Recovery Percentage 1	-2.743 %	6.835 %	3.387 %	0.039 %	0.398 %	1.445 %	43.654 %
Concentration RSD	63.7 %	96.6 %	868.2 %	1,883.9 %	190.4 %	7.4 %	34.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0026 ppm	0.0032 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0023 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0023 ppm	0.0366 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0032 ppm	-0.0269 ppm	0.0055 ppm
Recovery Percentage 1	0.699 %	-0.462 %	-2.066 %	0.381 %	5.202 %	0.127 %	2.562 %
Concentration RSD	101.2 %	125.5 %	163.0 %	856.9 %	19.4 %	1,000.0 %	110.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0014 ppm	0.2289 ppm	0.0003 ppm	0.0001 ppm	0.0011 ppm	0.0017 ppm
Concentration per Run 1	0.0004 ppm	0.0015 ppm	0.2219 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm	-0.0010 ppm
Concentration per Run 2	0.0006 ppm	0.0014 ppm	0.2258 ppm	0.0000 ppm	0.0003 ppm	0.0022 ppm	0.0029 ppm
Concentration per Run 3	0.0005 ppm	0.0012 ppm	0.2391 ppm	0.0005 ppm	0.0001 ppm	-0.0005 ppm	0.0031 ppm
Recovery Percentage 1	4.978 %	2.776 %	11.446 %	1.127 %	1.370 %	2.244 %	16.651 %
Concentration RSD	19.0 %	11.0 %	4.0 %	81.8 %	80.3 %	124.3 %	137.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	-0.0007 ppm	0.0000 ppm	0.0003 ppm	-0.0009 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	0.0004 ppm	-0.0012 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0011 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0012 ppm	0.0002 ppm	-0.0010 ppm
Recovery Percentage 1	0.093 %	-1.448 %	-0.184 %	2.886 %	-4.443 %	0.060 %	-17.592 %
Concentration RSD	135.1 %	55.7 %	152.1 %	68.1 %	33.1 %	2,851.0 %	11.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.4506 %	103.1152 %	104.3233 %	84.4460 %	101.0910 %	101.8197 %
Concentration per Run 1	103.5299 %	103.2859 %	104.4378 %	81.7220 %	100.6663 %	101.4661 %
Concentration per Run 2	104.9424 %	103.1693 %	104.3268 %	84.4862 %	101.2295 %	101.8813 %
Concentration per Run 3	104.8794 %	102.8904 %	104.2053 %	87.1297 %	101.3772 %	102.1119 %
Recovery Percentage 1						
Concentration RSD	0.8 %	0.2 %	0.1 %	3.2 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432886-02 wg1935283
Analysis started at: 6/18/2024 10:54:51 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.1085 ppm	0.0023 ppm	0.0057 ppm	0.0168 ppm	0.0001 ppm	3.4697 ppm
Concentration per Run 1	-0.0008 ppm	0.1044 ppm	0.0008 ppm	0.0057 ppm	0.0171 ppm	0.0001 ppm	3.5060 ppm
Concentration per Run 2	-0.0004 ppm	0.1073 ppm	0.0026 ppm	0.0058 ppm	0.0167 ppm	0.0001 ppm	3.4913 ppm
Concentration per Run 3	-0.0005 ppm	0.1138 ppm	0.0035 ppm	0.0055 ppm	0.0166 ppm	0.0000 ppm	3.4118 ppm
Concentration RSD	43.0 %	4.4 %	59.3 %	2.6 %	1.4 %	92.2 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	0.0007 ppm	0.0017 ppm	0.4044 ppm	0.2875 ppm	0.5479 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.0016 ppm	0.4081 ppm	0.2660 ppm	0.5476 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0019 ppm	0.4055 ppm	0.3186 ppm	0.5491 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0016 ppm	0.3996 ppm	0.2778 ppm	0.5469 ppm
Concentration RSD	6.2 %	23.2 %	58.9 %	10.0 %	1.1 %	9.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0433 ppm	0.0003 ppm	129.4789 ppm	0.0012 ppm	0.0093 ppm	0.0034 ppm	0.0032 ppm
Concentration per Run 1	0.0438 ppm	0.0002 ppm	131.5539 ppm	0.0014 ppm	0.0092 ppm	0.0019 ppm	0.0025 ppm
Concentration per Run 2	0.0433 ppm	0.0003 ppm	130.1933 ppm	0.0012 ppm	0.0095 ppm	0.0036 ppm	0.0037 ppm
Concentration per Run 3	0.0429 ppm	0.0005 ppm	126.6895 ppm	0.0010 ppm	0.0091 ppm	0.0046 ppm	0.0034 ppm
Concentration RSD	1.0 %	49.1 %	1.9 %	15.2 %	2.0 %	39.6 %	19.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2047 ppm	-0.0001 ppm	0.0141 ppm	0.0011 ppm	-0.0015 ppm	0.0007 ppm	0.0319 ppm
Concentration per Run 1	0.2078 ppm	-0.0002 ppm	0.0142 ppm	0.0012 ppm	-0.0016 ppm	0.0007 ppm	0.0320 ppm
Concentration per Run 2	0.2050 ppm	0.0002 ppm	0.0141 ppm	0.0011 ppm	-0.0018 ppm	0.0009 ppm	0.0318 ppm
Concentration per Run 3	0.2014 ppm	-0.0003 ppm	0.0140 ppm	0.0009 ppm	-0.0013 ppm	0.0004 ppm	0.0318 ppm
Concentration RSD	1.6 %	195.8 %	0.9 %	11.9 %	17.2 %	34.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	99.1699 %	96.9306 %	98.6001 %	102.9692 %	96.7167 %	101.7050 %
Concentration per Run 1	97.6622 %	96.9206 %	98.6573 %	106.0455 %	96.5181 %	101.8800 %
Concentration per Run 2	98.6109 %	97.1663 %	98.5938 %	102.2951 %	96.7973 %	101.9836 %
Concentration per Run 3	101.2366 %	96.7048 %	98.5492 %	100.5671 %	96.8348 %	101.2514 %
Concentration RSD	1.9 %	0.2 %	0.1 %	2.7 %	0.2 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2432957-01 wg1935283
Analysis started at: 6/18/2024 11:03:46 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0514 ppm	0.0002 ppm	0.0078 ppm	0.1913 ppm	-0.0001 ppm	265.0368 ppm
Concentration per Run 1	-0.0005 ppm	0.0475 ppm	0.0009 ppm	0.0075 ppm	0.1822 ppm	-0.0001 ppm	252.6473 ppm
Concentration per Run 2	-0.0004 ppm	0.0508 ppm	-0.0005 ppm	0.0083 ppm	0.1947 ppm	0.0000 ppm	269.2967 ppm
Concentration per Run 3	-0.0005 ppm	0.0558 ppm	0.0001 ppm	0.0078 ppm	0.1969 ppm	-0.0001 ppm	273.1663 ppm
Concentration RSD	11.9 %	8.1 %	431.4 %	5.1 %	4.1 %	61.2 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0054 ppm	0.0015 ppm	0.0085 ppm	52.6869 ppm	0.0079 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0050 ppm	0.0015 ppm	0.0081 ppm	50.2244 ppm	0.0081 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0058 ppm	0.0017 ppm	0.0096 ppm	53.4643 ppm	0.0072 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0055 ppm	0.0014 ppm	0.0079 ppm	54.3720 ppm	0.0085 ppm
Concentration RSD	356.8 %	1,724.4 %	7.6 %	8.0 %	10.4 %	4.1 %	8.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0180 ppm	177.9898 ppm	0.0002 ppm	0.0370 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 1	0.0004 ppm	0.0182 ppm	170.3218 ppm	0.0002 ppm	0.0368 ppm	-0.0007 ppm	-0.0022 ppm
Concentration per Run 2	0.0008 ppm	0.0180 ppm	180.5596 ppm	0.0002 ppm	0.0369 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	0.0179 ppm	183.0878 ppm	0.0002 ppm	0.0373 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	30.7 %	1.0 %	3.8 %	11.7 %	0.8 %	113.0 %	242.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1033 ppm	0.0003 ppm	0.3023 ppm	0.0025 ppm	-0.0018 ppm	0.0002 ppm	0.0203 ppm
Concentration per Run 1	0.1029 ppm	0.0008 ppm	0.2879 ppm	0.0026 ppm	-0.0013 ppm	0.0005 ppm	0.0204 ppm
Concentration per Run 2	0.1043 ppm	0.0005 ppm	0.3073 ppm	0.0024 ppm	-0.0019 ppm	0.0001 ppm	0.0205 ppm
Concentration per Run 3	0.1025 ppm	-0.0003 ppm	0.3118 ppm	0.0024 ppm	-0.0021 ppm	-0.0002 ppm	0.0202 ppm
Concentration RSD	0.9 %	180.5 %	4.2 %	4.8 %	25.3 %	231.8 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0066 %	93.0111 %	94.1681 %	104.9893 %	90.5031 %	98.4082 %
Concentration per Run 1	106.4844 %	92.8271 %	94.2161 %	111.6643 %	90.2992 %	98.5921 %
Concentration per Run 2	100.3609 %	92.8992 %	94.1150 %	103.6889 %	90.2982 %	98.5207 %
Concentration per Run 3	99.1744 %	93.3070 %	94.1734 %	99.6148 %	90.9119 %	98.1117 %
Concentration RSD	3.8 %	0.3 %	0.1 %	5.8 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433042-01 wg1935283
Analysis started at: 6/18/2024 11:10:01 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0215 ppm	0.0004 ppm	0.1099 ppm	0.0826 ppm	0.0000 ppm	20.7914 ppm
Concentration per Run 1	-0.0008 ppm	0.0180 ppm	0.0009 ppm	0.1100 ppm	0.0816 ppm	0.0000 ppm	20.5949 ppm
Concentration per Run 2	-0.0005 ppm	0.0210 ppm	0.0002 ppm	0.1090 ppm	0.0831 ppm	0.0000 ppm	20.9000 ppm
Concentration per Run 3	-0.0009 ppm	0.0256 ppm	0.0002 ppm	0.1106 ppm	0.0830 ppm	0.0000 ppm	20.8793 ppm
Concentration RSD	26.6 %	17.9 %	95.1 %	0.7 %	1.0 %	58.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0018 ppm	0.6026 ppm	0.0090 ppm	0.0008 ppm	4.1888 ppm	0.1995 ppm	1.6799 ppm
Concentration per Run 1	0.0018 ppm	0.6023 ppm	0.0091 ppm	0.0003 ppm	4.1559 ppm	0.1884 ppm	1.6830 ppm
Concentration per Run 2	0.0018 ppm	0.5978 ppm	0.0093 ppm	0.0008 ppm	4.2115 ppm	0.1995 ppm	1.6833 ppm
Concentration per Run 3	0.0018 ppm	0.6076 ppm	0.0087 ppm	0.0012 ppm	4.1989 ppm	0.2107 ppm	1.6735 ppm
Concentration RSD	1.3 %	0.8 %	3.2 %	55.0 %	0.7 %	5.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1441 ppm	0.0010 ppm	116.0602 ppm	0.2720 ppm	0.0018 ppm	0.0028 ppm	0.0047 ppm
Concentration per Run 1	0.1433 ppm	0.0010 ppm	115.3489 ppm	0.2721 ppm	0.0019 ppm	0.0022 ppm	0.0045 ppm
Concentration per Run 2	0.1445 ppm	0.0010 ppm	116.6196 ppm	0.2701 ppm	0.0021 ppm	0.0033 ppm	0.0046 ppm
Concentration per Run 3	0.1445 ppm	0.0010 ppm	116.2120 ppm	0.2739 ppm	0.0015 ppm	0.0029 ppm	0.0050 ppm
Concentration RSD	0.5 %	4.2 %	0.6 %	0.7 %	16.2 %	18.5 %	5.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4153 ppm	0.0005 ppm	0.0739 ppm	0.0009 ppm	-0.0054 ppm	0.0005 ppm	0.6723 ppm
Concentration per Run 1	0.4147 ppm	0.0003 ppm	0.0731 ppm	0.0009 ppm	-0.0063 ppm	0.0005 ppm	0.6721 ppm
Concentration per Run 2	0.4128 ppm	0.0006 ppm	0.0743 ppm	0.0008 ppm	-0.0054 ppm	0.0008 ppm	0.6671 ppm
Concentration per Run 3	0.4185 ppm	0.0005 ppm	0.0743 ppm	0.0009 ppm	-0.0044 ppm	0.0002 ppm	0.6776 ppm
Concentration RSD	0.7 %	26.1 %	0.9 %	8.2 %	17.6 %	56.8 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.2032 %	99.9226 %	101.4542 %	95.9693 %	96.6174 %	102.1121 %
Concentration per Run 1	105.4722 %	99.7856 %	101.4533 %	96.0854 %	96.6584 %	101.8556 %
Concentration per Run 2	104.7122 %	99.9051 %	102.1608 %	95.7267 %	97.2470 %	102.1146 %
Concentration per Run 3	105.4252 %	100.0771 %	100.7485 %	96.0959 %	95.9468 %	102.3661 %
Concentration RSD	0.4 %	0.1 %	0.7 %	0.2 %	0.7 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433053-01 wg1935283
Analysis started at: 6/18/2024 11:16:11 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.4893 ppm	0.0009 ppm	0.5639 ppm	0.0032 ppm	0.0001 ppm	3.3923 ppm
Concentration per Run 1	-0.0005 ppm	0.4902 ppm	0.0001 ppm	0.5648 ppm	0.0033 ppm	0.0001 ppm	3.4223 ppm
Concentration per Run 2	0.0001 ppm	0.4961 ppm	0.0018 ppm	0.5636 ppm	0.0031 ppm	0.0001 ppm	3.3925 ppm
Concentration per Run 3	-0.0005 ppm	0.4816 ppm	0.0007 ppm	0.5634 ppm	0.0031 ppm	0.0000 ppm	3.3621 ppm
Concentration RSD	122.9 %	1.5 %	101.9 %	0.1 %	4.1 %	121.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.6181 ppm	0.0199 ppm	0.0001 ppm	1.0345 ppm	0.0718 ppm	0.2292 ppm
Concentration per Run 1	0.0000 ppm	0.6182 ppm	0.0200 ppm	-0.0001 ppm	1.0423 ppm	0.0606 ppm	0.2261 ppm
Concentration per Run 2	0.0000 ppm	0.6189 ppm	0.0197 ppm	0.0004 ppm	1.0342 ppm	0.0962 ppm	0.2301 ppm
Concentration per Run 3	0.0000 ppm	0.6172 ppm	0.0202 ppm	-0.0001 ppm	1.0271 ppm	0.0587 ppm	0.2314 ppm
Concentration RSD	94.2 %	0.1 %	1.2 %	272.0 %	0.7 %	29.4 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0131 ppm	0.0521 ppm	122.7954 ppm	1.5625 ppm	0.0006 ppm	0.0022 ppm	0.0026 ppm
Concentration per Run 1	0.0131 ppm	0.0522 ppm	124.4929 ppm	1.5650 ppm	0.0006 ppm	0.0027 ppm	0.0053 ppm
Concentration per Run 2	0.0133 ppm	0.0520 ppm	122.7214 ppm	1.5624 ppm	-0.0001 ppm	0.0019 ppm	0.0023 ppm
Concentration per Run 3	0.0131 ppm	0.0521 ppm	121.1718 ppm	1.5602 ppm	0.0013 ppm	0.0021 ppm	0.0001 ppm
Concentration RSD	0.8 %	0.2 %	1.4 %	0.2 %	118.6 %	18.7 %	101.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2076 ppm	-0.0004 ppm	0.0191 ppm	0.0032 ppm	-0.0044 ppm	0.0006 ppm	0.0041 ppm
Concentration per Run 1	0.2068 ppm	-0.0005 ppm	0.0193 ppm	0.0028 ppm	-0.0049 ppm	0.0007 ppm	0.0041 ppm
Concentration per Run 2	0.2080 ppm	0.0000 ppm	0.0190 ppm	0.0033 ppm	-0.0039 ppm	0.0006 ppm	0.0041 ppm
Concentration per Run 3	0.2081 ppm	-0.0006 ppm	0.0191 ppm	0.0035 ppm	-0.0046 ppm	0.0005 ppm	0.0042 ppm
Concentration RSD	0.4 %	85.7 %	0.8 %	11.6 %	11.7 %	15.0 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.0910 %	98.9959 %	99.6713 %	95.0594 %	97.9318 %	103.2331 %
Concentration per Run 1	100.8653 %	99.1735 %	99.6973 %	94.6718 %	97.8425 %	103.3470 %
Concentration per Run 2	102.0455 %	99.4098 %	100.0685 %	94.8001 %	97.9646 %	103.6952 %
Concentration per Run 3	103.3622 %	98.4044 %	99.2481 %	95.7064 %	97.9881 %	102.6572 %
Concentration RSD	1.2 %	0.5 %	0.4 %	0.6 %	0.1 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433055-01 wg1935283
Analysis started at: 6/18/2024 11:22:24 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0465 ppm	0.0007 ppm	0.0030 ppm	0.0004 ppm	0.0000 ppm	0.0522 ppm
Concentration per Run 1	-0.0007 ppm	0.0397 ppm	0.0005 ppm	0.0034 ppm	0.0005 ppm	-0.0001 ppm	0.0486 ppm
Concentration per Run 2	-0.0004 ppm	0.0470 ppm	0.0003 ppm	0.0024 ppm	0.0001 ppm	0.0000 ppm	0.0525 ppm
Concentration per Run 3	-0.0009 ppm	0.0529 ppm	0.0011 ppm	0.0032 ppm	0.0007 ppm	0.0000 ppm	0.0555 ppm
Concentration RSD	42.0 %	14.1 %	61.3 %	17.7 %	74.5 %	59.7 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0009 ppm	0.0379 ppm	0.0024 ppm	0.0016 ppm	0.0516 ppm	0.0497 ppm	0.0030 ppm
Concentration per Run 1	-0.0009 ppm	0.0384 ppm	0.0026 ppm	0.0014 ppm	0.0490 ppm	0.0440 ppm	0.0056 ppm
Concentration per Run 2	-0.0009 ppm	0.0378 ppm	0.0023 ppm	0.0017 ppm	0.0526 ppm	0.0387 ppm	0.0023 ppm
Concentration per Run 3	-0.0009 ppm	0.0375 ppm	0.0023 ppm	0.0015 ppm	0.0533 ppm	0.0664 ppm	0.0011 ppm
Concentration RSD	1.9 %	1.3 %	7.0 %	10.5 %	4.4 %	29.6 %	79.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	0.0880 ppm	120.9276 ppm	0.0109 ppm	0.0000 ppm	-0.0181 ppm	0.0127 ppm
Concentration per Run 1	0.0010 ppm	0.0884 ppm	115.0047 ppm	0.0106 ppm	-0.0012 ppm	-0.0198 ppm	0.0117 ppm
Concentration per Run 2	0.0012 ppm	0.0882 ppm	123.1289 ppm	0.0110 ppm	0.0001 ppm	-0.0174 ppm	0.0151 ppm
Concentration per Run 3	0.0015 ppm	0.0875 ppm	124.6493 ppm	0.0112 ppm	0.0009 ppm	-0.0172 ppm	0.0113 ppm
Concentration RSD	19.3 %	0.5 %	4.3 %	2.5 %	2,384.7 %	8.0 %	16.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1140 ppm	0.0949 ppm	0.0004 ppm	0.0012 ppm	-0.0023 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	0.1151 ppm	0.0957 ppm	0.0004 ppm	0.0011 ppm	-0.0015 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 2	0.1134 ppm	0.0952 ppm	0.0005 ppm	0.0012 ppm	-0.0025 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.1133 ppm	0.0939 ppm	0.0004 ppm	0.0013 ppm	-0.0028 ppm	0.0008 ppm	0.0002 ppm
Concentration RSD	0.9 %	1.0 %	13.7 %	10.8 %	29.7 %	22.5 %	21.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.7161 %	97.3125 %	99.3263 %	98.2373 %	97.7107 %	102.1573 %
Concentration per Run 1	110.2597 %	97.0947 %	98.8687 %	101.8859 %	97.1953 %	102.1505 %
Concentration per Run 2	102.4163 %	97.5232 %	99.6656 %	97.1482 %	97.6976 %	102.2551 %
Concentration per Run 3	101.4722 %	97.3197 %	99.4448 %	95.6779 %	98.2391 %	102.0664 %
Concentration RSD	4.6 %	0.2 %	0.4 %	3.3 %	0.5 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433056-01 wg1935283
Analysis started at: 6/18/2024 11:28:42 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0342 ppm	0.0009 ppm	0.1231 ppm	0.0127 ppm	0.0000 ppm	18.8833 ppm
Concentration per Run 1	-0.0009 ppm	0.0221 ppm	0.0016 ppm	0.1229 ppm	0.0125 ppm	0.0000 ppm	18.2630 ppm
Concentration per Run 2	-0.0013 ppm	0.0393 ppm	0.0006 ppm	0.1235 ppm	0.0125 ppm	0.0000 ppm	19.0913 ppm
Concentration per Run 3	-0.0002 ppm	0.0413 ppm	0.0005 ppm	0.1229 ppm	0.0132 ppm	0.0000 ppm	19.2957 ppm
Concentration RSD	65.9 %	30.8 %	69.0 %	0.3 %	3.1 %	19.0 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0723 ppm	0.0054 ppm	0.0116 ppm	0.1176 ppm	0.1325 ppm	1.2393 ppm
Concentration per Run 1	0.0007 ppm	0.0721 ppm	0.0050 ppm	0.0118 ppm	0.1131 ppm	0.1036 ppm	1.2442 ppm
Concentration per Run 2	0.0008 ppm	0.0724 ppm	0.0058 ppm	0.0114 ppm	0.1170 ppm	0.1297 ppm	1.2360 ppm
Concentration per Run 3	0.0007 ppm	0.0723 ppm	0.0055 ppm	0.0116 ppm	0.1226 ppm	0.1643 ppm	1.2377 ppm
Concentration RSD	2.4 %	0.2 %	7.6 %	2.0 %	4.1 %	23.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0536 ppm	0.0011 ppm	120.7184 ppm	0.0596 ppm	0.0004 ppm	0.0005 ppm	0.0028 ppm
Concentration per Run 1	0.0516 ppm	0.0012 ppm	117.3965 ppm	0.0598 ppm	0.0004 ppm	-0.0012 ppm	-0.0001 ppm
Concentration per Run 2	0.0544 ppm	0.0011 ppm	121.8085 ppm	0.0598 ppm	0.0005 ppm	0.0016 ppm	0.0058 ppm
Concentration per Run 3	0.0549 ppm	0.0010 ppm	122.9503 ppm	0.0593 ppm	0.0003 ppm	0.0013 ppm	0.0027 ppm
Concentration RSD	3.3 %	8.9 %	2.4 %	0.5 %	21.4 %	284.7 %	104.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2367 ppm	0.0003 ppm	0.0668 ppm	0.0011 ppm	-0.0015 ppm	0.0002 ppm	0.3539 ppm
Concentration per Run 1	0.2367 ppm	0.0005 ppm	0.0646 ppm	0.0012 ppm	-0.0013 ppm	0.0003 ppm	0.3543 ppm
Concentration per Run 2	0.2376 ppm	0.0002 ppm	0.0674 ppm	0.0012 ppm	-0.0019 ppm	-0.0001 ppm	0.3542 ppm
Concentration per Run 3	0.2358 ppm	0.0001 ppm	0.0685 ppm	0.0009 ppm	-0.0013 ppm	0.0004 ppm	0.3531 ppm
Concentration RSD	0.4 %	73.7 %	3.0 %	16.8 %	25.0 %	111.7 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.4660 %	98.6887 %	99.9395 %	98.9936 %	97.3292 %	102.8199 %
Concentration per Run 1	108.3176 %	98.5828 %	99.9840 %	100.4732 %	97.3754 %	102.7114 %
Concentration per Run 2	104.0834 %	98.7615 %	100.0632 %	98.5433 %	97.2259 %	102.9582 %
Concentration per Run 3	103.9970 %	98.7217 %	99.7713 %	97.9643 %	97.3862 %	102.7900 %
Concentration RSD	2.3 %	0.1 %	0.2 %	1.3 %	0.1 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433066-01 wg1935283
Analysis started at: 6/18/2024 11:34:56 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0166 ppm	0.0005 ppm	0.0809 ppm	0.0017 ppm	0.0001 ppm	3.1500 ppm
Concentration per Run 1	-0.0003 ppm	0.0268 ppm	0.0018 ppm	0.0806 ppm	0.0015 ppm	0.0001 ppm	3.0596 ppm
Concentration per Run 2	-0.0003 ppm	0.0130 ppm	-0.0010 ppm	0.0805 ppm	0.0019 ppm	0.0001 ppm	3.1737 ppm
Concentration per Run 3	-0.0011 ppm	0.0100 ppm	0.0006 ppm	0.0817 ppm	0.0018 ppm	0.0002 ppm	3.2166 ppm
Concentration RSD	81.6 %	53.8 %	290.7 %	0.8 %	13.4 %	48.1 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0039 ppm	-0.0064 ppm	36.7897 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0029 ppm	-0.0104 ppm	36.9253 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0048 ppm	-0.0219 ppm	36.7318 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0040 ppm	0.0131 ppm	36.7120 ppm
Concentration RSD	133.0 %	173.9 %	209.7 %	283.6 %	24.2 %	279.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0053 ppm	119.1558 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	0.0003 ppm	0.0054 ppm	117.1813 ppm	0.0003 ppm	0.0007 ppm	0.0019 ppm	0.0033 ppm
Concentration per Run 2	0.0004 ppm	0.0052 ppm	119.5844 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0053 ppm
Concentration per Run 3	0.0008 ppm	0.0053 ppm	120.7017 ppm	0.0001 ppm	-0.0007 ppm	0.0003 ppm	-0.0007 ppm
Concentration RSD	54.3 %	1.5 %	1.5 %	153.2 %	1,459.1 %	96.8 %	115.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0888 ppm	0.0000 ppm	0.0056 ppm	0.0007 ppm	-0.0024 ppm	0.0006 ppm	-0.0013 ppm
Concentration per Run 1	0.0894 ppm	0.0000 ppm	0.0055 ppm	0.0006 ppm	-0.0028 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 2	0.0887 ppm	-0.0003 ppm	0.0054 ppm	0.0009 ppm	-0.0009 ppm	0.0007 ppm	-0.0013 ppm
Concentration per Run 3	0.0882 ppm	0.0002 ppm	0.0057 ppm	0.0004 ppm	-0.0037 ppm	0.0006 ppm	-0.0013 ppm
Concentration RSD	0.7 %	584.3 %	2.6 %	36.4 %	59.3 %	22.5 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9446 %	97.2878 %	98.8766 %	97.7715 %	96.3999 %	101.8136 %
Concentration per Run 1	105.8268 %	96.7440 %	98.8477 %	98.7501 %	96.2515 %	101.2171 %
Concentration per Run 2	103.5806 %	97.8587 %	99.1650 %	98.1101 %	96.7375 %	102.0198 %
Concentration per Run 3	102.4263 %	97.2606 %	98.6171 %	96.4543 %	96.2107 %	102.2040 %
Concentration RSD	1.7 %	0.6 %	0.3 %	1.2 %	0.3 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-02 wg1935283
Analysis started at: 6/18/2024 11:41:14 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0285 ppm	0.0016 ppm	0.0301 ppm	0.0190 ppm	0.0000 ppm	74.1157 ppm
Concentration per Run 1	-0.0001 ppm	0.0294 ppm	0.0025 ppm	0.0303 ppm	0.0185 ppm	0.0000 ppm	72.6010 ppm
Concentration per Run 2	-0.0007 ppm	0.0323 ppm	0.0004 ppm	0.0298 ppm	0.0195 ppm	0.0001 ppm	75.0863 ppm
Concentration per Run 3	-0.0004 ppm	0.0238 ppm	0.0019 ppm	0.0303 ppm	0.0191 ppm	-0.0001 ppm	74.6599 ppm
Concentration RSD	78.0 %	15.1 %	66.8 %	1.0 %	2.6 %	616.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0049 ppm	0.0016 ppm	0.0006 ppm	0.4573 ppm	0.0051 ppm	0.8858 ppm	2.2608 ppm
Concentration per Run 1	0.0048 ppm	0.0017 ppm	0.0006 ppm	0.4592 ppm	0.0060 ppm	0.8517 ppm	2.2702 ppm
Concentration per Run 2	0.0048 ppm	0.0014 ppm	0.0006 ppm	0.4561 ppm	0.0051 ppm	0.9092 ppm	2.2597 ppm
Concentration per Run 3	0.0049 ppm	0.0017 ppm	0.0005 ppm	0.4566 ppm	0.0042 ppm	0.8966 ppm	2.2524 ppm
Concentration RSD	0.6 %	11.1 %	15.4 %	0.4 %	17.8 %	3.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1392 ppm	0.0001 ppm	120.0909 ppm	0.0187 ppm	0.7104 ppm	0.0023 ppm	0.0012 ppm
Concentration per Run 1	0.1357 ppm	0.0001 ppm	117.8821 ppm	0.0186 ppm	0.7082 ppm	0.0038 ppm	0.0037 ppm
Concentration per Run 2	0.1411 ppm	-0.0001 ppm	121.8589 ppm	0.0190 ppm	0.7099 ppm	0.0020 ppm	-0.0021 ppm
Concentration per Run 3	0.1408 ppm	0.0004 ppm	120.5318 ppm	0.0185 ppm	0.7129 ppm	0.0011 ppm	0.0019 ppm
Concentration RSD	2.2 %	201.3 %	1.7 %	1.4 %	0.3 %	60.3 %	250.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4672 ppm	-0.0004 ppm	0.2084 ppm	0.0009 ppm	-0.0021 ppm	0.0001 ppm	1.5692 ppm
Concentration per Run 1	0.4655 ppm	-0.0002 ppm	0.2044 ppm	0.0011 ppm	-0.0016 ppm	0.0002 ppm	1.5647 ppm
Concentration per Run 2	0.4680 ppm	-0.0005 ppm	0.2113 ppm	0.0008 ppm	-0.0023 ppm	0.0002 ppm	1.5675 ppm
Concentration per Run 3	0.4680 ppm	-0.0006 ppm	0.2096 ppm	0.0008 ppm	-0.0025 ppm	0.0000 ppm	1.5753 ppm
Concentration RSD	0.3 %	46.1 %	1.7 %	23.1 %	20.2 %	100.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2389 %	97.7948 %	98.4176 %	96.7731 %	96.1436 %	102.0851 %
Concentration per Run 1	105.3839 %	97.5174 %	98.6684 %	97.9140 %	96.4772 %	101.6761 %
Concentration per Run 2	101.4749 %	97.8870 %	98.3426 %	96.2630 %	96.2283 %	102.0325 %
Concentration per Run 3	102.8579 %	97.9799 %	98.2418 %	96.1424 %	95.7253 %	102.5466 %
Concentration RSD	1.9 %	0.3 %	0.2 %	1.0 %	0.4 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-03 wg1935283
Analysis started at: 6/18/2024 11:47:28 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0237 ppm	-0.0005 ppm	0.0059 ppm	0.0166 ppm	0.0003 ppm	15.3453 ppm
Concentration per Run 1	-0.0002 ppm	0.0172 ppm	-0.0013 ppm	0.0055 ppm	0.0161 ppm	0.0003 ppm	15.0178 ppm
Concentration per Run 2	-0.0010 ppm	0.0214 ppm	0.0002 ppm	0.0058 ppm	0.0169 ppm	0.0002 ppm	15.5241 ppm
Concentration per Run 3	-0.0007 ppm	0.0324 ppm	-0.0003 ppm	0.0064 ppm	0.0168 ppm	0.0003 ppm	15.4941 ppm
Concentration RSD	60.0 %	33.3 %	153.5 %	7.9 %	2.6 %	18.1 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0007 ppm	0.0008 ppm	0.0214 ppm	0.0235 ppm	0.8131 ppm	0.7029 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0009 ppm	0.0212 ppm	0.0239 ppm	0.7854 ppm	0.7014 ppm
Concentration per Run 2	0.0003 ppm	0.0009 ppm	0.0006 ppm	0.0216 ppm	0.0233 ppm	0.8222 ppm	0.7020 ppm
Concentration per Run 3	0.0003 ppm	0.0007 ppm	0.0010 ppm	0.0215 ppm	0.0232 ppm	0.8317 ppm	0.7053 ppm
Concentration RSD	7.3 %	24.7 %	30.6 %	1.1 %	1.6 %	3.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1206 ppm	0.0003 ppm	136.4744 ppm	0.0030 ppm	0.0419 ppm	0.0008 ppm	0.0033 ppm
Concentration per Run 1	0.1173 ppm	0.0003 ppm	133.9659 ppm	0.0032 ppm	0.0411 ppm	0.0012 ppm	0.0030 ppm
Concentration per Run 2	0.1225 ppm	0.0002 ppm	137.8751 ppm	0.0028 ppm	0.0421 ppm	0.0002 ppm	0.0032 ppm
Concentration per Run 3	0.1220 ppm	0.0002 ppm	137.5820 ppm	0.0029 ppm	0.0426 ppm	0.0010 ppm	0.0037 ppm
Concentration RSD	2.4 %	23.6 %	1.6 %	6.5 %	1.8 %	63.2 %	11.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0405 ppm	0.0000 ppm	0.0789 ppm	0.0004 ppm	-0.0018 ppm	0.0003 ppm	0.0452 ppm
Concentration per Run 1	1.0437 ppm	0.0000 ppm	0.0772 ppm	0.0004 ppm	-0.0020 ppm	0.0002 ppm	0.0453 ppm
Concentration per Run 2	1.0278 ppm	0.0004 ppm	0.0797 ppm	0.0002 ppm	-0.0018 ppm	0.0006 ppm	0.0448 ppm
Concentration per Run 3	1.0500 ppm	-0.0003 ppm	0.0799 ppm	0.0007 ppm	-0.0017 ppm	0.0001 ppm	0.0456 ppm
Concentration RSD	1.1 %	899.4 %	1.9 %	60.6 %	8.3 %	76.7 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.9243 %	98.2952 %	99.5730 %	95.9844 %	98.0175 %	103.0171 %
Concentration per Run 1	105.7574 %	97.8115 %	99.8120 %	96.4297 %	97.9382 %	102.9805 %
Concentration per Run 2	103.1736 %	98.4109 %	99.5658 %	96.1955 %	99.0437 %	102.8755 %
Concentration per Run 3	102.8419 %	98.6632 %	99.3410 %	95.3281 %	97.0705 %	103.1952 %
Concentration RSD	1.5 %	0.4 %	0.2 %	0.6 %	1.0 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-04 wg1935283
Analysis started at: 6/18/2024 11:53:44 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0274 ppm	-0.0005 ppm	0.0078 ppm	0.0382 ppm	0.0000 ppm	75.3895 ppm
Concentration per Run 1	-0.0003 ppm	0.0219 ppm	0.0007 ppm	0.0077 ppm	0.0383 ppm	0.0000 ppm	75.2890 ppm
Concentration per Run 2	-0.0005 ppm	0.0228 ppm	-0.0009 ppm	0.0076 ppm	0.0382 ppm	0.0001 ppm	75.3760 ppm
Concentration per Run 3	-0.0005 ppm	0.0376 ppm	-0.0012 ppm	0.0080 ppm	0.0381 ppm	0.0000 ppm	75.5035 ppm
Concentration RSD	32.7 %	32.1 %	224.6 %	2.6 %	0.2 %	177.1 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0013 ppm	0.0006 ppm	0.0049 ppm	0.0361 ppm	0.0097 ppm	1.8735 ppm	0.9360 ppm
Concentration per Run 1	0.0012 ppm	0.0008 ppm	0.0051 ppm	0.0360 ppm	0.0109 ppm	1.8838 ppm	0.9398 ppm
Concentration per Run 2	0.0012 ppm	0.0006 ppm	0.0048 ppm	0.0357 ppm	0.0078 ppm	1.8867 ppm	0.9313 ppm
Concentration per Run 3	0.0013 ppm	0.0005 ppm	0.0048 ppm	0.0365 ppm	0.0104 ppm	1.8502 ppm	0.9369 ppm
Concentration RSD	1.5 %	25.3 %	4.0 %	1.2 %	17.3 %	1.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0384 ppm	0.0007 ppm	118.1532 ppm	0.0081 ppm	0.0872 ppm	0.0006 ppm	0.0022 ppm
Concentration per Run 1	0.0380 ppm	0.0007 ppm	118.4159 ppm	0.0081 ppm	0.0867 ppm	0.0006 ppm	0.0025 ppm
Concentration per Run 2	0.0383 ppm	0.0007 ppm	118.0628 ppm	0.0077 ppm	0.0866 ppm	-0.0007 ppm	0.0007 ppm
Concentration per Run 3	0.0390 ppm	0.0007 ppm	117.9808 ppm	0.0086 ppm	0.0884 ppm	0.0018 ppm	0.0035 ppm
Concentration RSD	1.3 %	1.2 %	0.2 %	5.6 %	1.1 %	220.5 %	63.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4071 ppm	0.0000 ppm	0.1870 ppm	0.0012 ppm	-0.0022 ppm	0.0008 ppm	0.3283 ppm
Concentration per Run 1	1.3986 ppm	0.0001 ppm	0.1865 ppm	0.0011 ppm	-0.0021 ppm	0.0006 ppm	0.3259 ppm
Concentration per Run 2	1.3908 ppm	0.0000 ppm	0.1869 ppm	0.0013 ppm	-0.0031 ppm	0.0012 ppm	0.3253 ppm
Concentration per Run 3	1.4320 ppm	0.0000 ppm	0.1875 ppm	0.0012 ppm	-0.0016 ppm	0.0005 ppm	0.3336 ppm
Concentration RSD	1.6 %	226.9 %	0.2 %	7.8 %	34.9 %	48.1 %	1.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.2454 %	97.4641 %	97.8656 %	96.0820 %	96.3218 %	102.8835 %
Concentration per Run 1	103.2692 %	97.3327 %	98.5977 %	95.2482 %	97.0597 %	102.3759 %
Concentration per Run 2	103.5442 %	97.3662 %	98.1297 %	97.0662 %	97.0579 %	102.9074 %
Concentration per Run 3	102.9228 %	97.6933 %	96.8693 %	95.9315 %	94.8480 %	103.3671 %
Concentration RSD	0.3 %	0.2 %	0.9 %	1.0 %	1.3 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/18/2024 11:59:59 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4870 ppm	0.4913 ppm	0.4708 ppm	0.4739 ppm	0.4700 ppm	0.4782 ppm	0.4864 ppm
Concentration per Run 1	0.4873 ppm	0.4797 ppm	0.4698 ppm	0.4736 ppm	0.4629 ppm	0.4703 ppm	0.4777 ppm
Concentration per Run 2	0.4875 ppm	0.4886 ppm	0.4708 ppm	0.4741 ppm	0.4724 ppm	0.4809 ppm	0.4865 ppm
Concentration per Run 3	0.4861 ppm	0.5056 ppm	0.4718 ppm	0.4739 ppm	0.4747 ppm	0.4833 ppm	0.4949 ppm
Recovery Percentage 1	97.398 %	98.263 %	94.159 %	94.773 %	94.001 %	95.633 %	97.271 %
Concentration RSD	0.2 %	2.7 %	0.2 %	0.0 %	1.3 %	1.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4779 ppm	0.4892 ppm	0.4911 ppm	0.4810 ppm	0.4872 ppm	4.7385 ppm	0.4699 ppm
Concentration per Run 1	0.4775 ppm	0.4887 ppm	0.4905 ppm	0.4816 ppm	0.4735 ppm	4.6687 ppm	0.4701 ppm
Concentration per Run 2	0.4778 ppm	0.4892 ppm	0.4917 ppm	0.4806 ppm	0.4920 ppm	4.8011 ppm	0.4731 ppm
Concentration per Run 3	0.4782 ppm	0.4896 ppm	0.4910 ppm	0.4807 ppm	0.4959 ppm	4.7458 ppm	0.4666 ppm
Recovery Percentage 1	95.572 %	97.836 %	98.214 %	96.194 %	97.431 %	94.771 %	93.983 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %	2.5 %	1.4 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4728 ppm	0.4735 ppm	9.4542 ppm	0.4894 ppm	0.4856 ppm	0.4862 ppm	0.4836 ppm
Concentration per Run 1	0.4642 ppm	0.4715 ppm	9.3138 ppm	0.4891 ppm	0.4848 ppm	0.4848 ppm	0.4846 ppm
Concentration per Run 2	0.4755 ppm	0.4735 ppm	9.4943 ppm	0.4893 ppm	0.4856 ppm	0.4860 ppm	0.4838 ppm
Concentration per Run 3	0.4788 ppm	0.4754 ppm	9.5545 ppm	0.4898 ppm	0.4864 ppm	0.4878 ppm	0.4823 ppm
Recovery Percentage 1	94.565 %	94.695 %	94.542 %	97.882 %	97.123 %	97.248 %	96.716 %
Concentration RSD	1.6 %	0.4 %	1.3 %	0.1 %	0.2 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3866 ppm	0.4807 ppm	0.4603 ppm	0.4711 ppm	0.4833 ppm	0.4816 ppm	0.4897 ppm
Concentration per Run 1	5.3815 ppm	0.4802 ppm	0.4531 ppm	0.4711 ppm	0.4836 ppm	0.4817 ppm	0.4891 ppm
Concentration per Run 2	5.3842 ppm	0.4807 ppm	0.4626 ppm	0.4712 ppm	0.4832 ppm	0.4818 ppm	0.4897 ppm
Concentration per Run 3	5.3942 ppm	0.4814 ppm	0.4651 ppm	0.4710 ppm	0.4831 ppm	0.4812 ppm	0.4904 ppm
Recovery Percentage 1	102.602 %	96.150 %	92.054 %	94.211 %	96.659 %	96.312 %	97.944 %
Concentration RSD	0.1 %	0.1 %	1.4 %	0.0 %	0.0 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.2316 %	101.9930 %	102.7411 %	97.1599 %	103.4464 %	105.8252 %
Concentration per Run 1	108.0011 %	101.9675 %	103.0015 %	97.4905 %	103.5519 %	105.5074 %
Concentration per Run 2	105.8400 %	101.9636 %	102.6238 %	97.2639 %	103.4213 %	105.9264 %
Concentration per Run 3	104.8538 %	102.0480 %	102.5981 %	96.7251 %	103.3659 %	106.0417 %
Recovery Percentage 1						
Concentration RSD	1.5 %	0.0 %	0.2 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:06:03 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0088 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0318 ppm
Concentration per Run 1	0.0000 ppm	0.0068 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0299 ppm
Concentration per Run 2	-0.0008 ppm	0.0117 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0329 ppm
Concentration per Run 3	-0.0001 ppm	0.0080 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0325 ppm
Recovery Percentage 1	-4.528 %	8.810 %	6.555 %	0.531 %	0.851 %	0.789 %	31.766 %
Concentration RSD	135.2 %	29.2 %	123.9 %	120.5 %	151.4 %	220.3 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0045 ppm	-0.0767 ppm	0.0033 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0040 ppm	-0.0736 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	0.0070 ppm	-0.0364 ppm	0.0033 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0024 ppm	-0.1200 ppm	0.0031 ppm
Recovery Percentage 1	0.598 %	-0.432 %	-2.756 %	-3.105 %	8.986 %	-3.068 %	3.296 %
Concentration RSD	136.1 %	89.2 %	77.3 %	92.3 %	52.4 %	54.6 %	7.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0012 ppm	0.0728 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0018 ppm
Concentration per Run 1	-0.0002 ppm	0.0016 ppm	0.0776 ppm	0.0004 ppm	0.0011 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0010 ppm	0.0775 ppm	0.0002 ppm	-0.0007 ppm	0.0005 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0633 ppm	0.0002 ppm	-0.0004 ppm	0.0023 ppm	0.0037 ppm
Recovery Percentage 1	-1.331 %	2.341 %	3.641 %	0.949 %	0.164 %	1.157 %	17.550 %
Concentration RSD	105.9 %	28.9 %	11.3 %	51.8 %	6,039.0 %	295.9 %	106.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0017 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	-0.0025 ppm	-0.0005 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 2	-0.0007 ppm	-0.0008 ppm	0.0000 ppm	0.0005 ppm	-0.0013 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	-0.0018 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm	-0.0010 ppm
Recovery Percentage 1	-0.330 %	-0.947 %	-0.046 %	-0.071 %	-3.514 %	-0.504 %	-21.497 %
Concentration RSD	54.8 %	60.2 %	654.7 %	6,229.0 %	81.5 %	68.8 %	4.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	109.6609 %	103.8579 %	104.3929 %	88.3427 %	101.7815 %	102.4448 %
Concentration per Run 1	112.4307 %	103.8935 %	104.5611 %	86.8556 %	101.6518 %	102.1611 %
Concentration per Run 2	109.4493 %	103.7707 %	104.4957 %	88.7676 %	101.8219 %	102.4508 %
Concentration per Run 3	107.1026 %	103.9096 %	104.1218 %	89.4048 %	101.8707 %	102.7226 %
Recovery Percentage 1						
Concentration RSD	2.4 %	0.1 %	0.2 %	1.5 %	0.1 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-05 wg1935283
Analysis started at: 6/19/2024 12:12:25 AM
Comments <Comment>
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	0.0229 ppm	0.0005 ppm	0.0072 ppm	0.0152 ppm	0.0000 ppm	79.8726 ppm
Concentration per Run 1	-0.0007 ppm	0.0188 ppm	-0.0008 ppm	0.0069 ppm	0.0142 ppm	0.0000 ppm	75.7471 ppm
Concentration per Run 2	-0.0006 ppm	0.0309 ppm	0.0014 ppm	0.0072 ppm	0.0155 ppm	-0.0001 ppm	81.6735 ppm
Concentration per Run 3	-0.0007 ppm	0.0191 ppm	0.0010 ppm	0.0076 ppm	0.0157 ppm	0.0001 ppm	82.1971 ppm
Concentration RSD	7.1 %	30.1 %	222.0 %	4.9 %	5.4 %	358.8 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0015 ppm	0.0016 ppm	0.0006 ppm	0.0349 ppm	0.0083 ppm	0.7013 ppm	0.8009 ppm
Concentration per Run 1	0.0015 ppm	0.0016 ppm	0.0006 ppm	0.0352 ppm	0.0089 ppm	0.6465 ppm	0.8056 ppm
Concentration per Run 2	0.0015 ppm	0.0015 ppm	0.0004 ppm	0.0345 ppm	0.0066 ppm	0.7102 ppm	0.7926 ppm
Concentration per Run 3	0.0016 ppm	0.0018 ppm	0.0009 ppm	0.0352 ppm	0.0094 ppm	0.7474 ppm	0.8046 ppm
Concentration RSD	4.6 %	8.9 %	33.9 %	1.2 %	18.1 %	7.3 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1007 ppm	0.0008 ppm	116.5247 ppm	0.0126 ppm	0.1575 ppm	0.0010 ppm	0.0030 ppm
Concentration per Run 1	0.0945 ppm	0.0006 ppm	110.4529 ppm	0.0125 ppm	0.1565 ppm	0.0012 ppm	0.0021 ppm
Concentration per Run 2	0.1033 ppm	0.0009 ppm	119.3365 ppm	0.0128 ppm	0.1570 ppm	0.0012 ppm	0.0039 ppm
Concentration per Run 3	0.1041 ppm	0.0009 ppm	119.7847 ppm	0.0125 ppm	0.1591 ppm	0.0007 ppm	0.0032 ppm
Concentration RSD	5.3 %	26.4 %	4.5 %	1.5 %	0.9 %	26.0 %	29.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1660 ppm	-0.0005 ppm	0.1938 ppm	0.0012 ppm	-0.0021 ppm	0.0003 ppm	0.2055 ppm
Concentration per Run 1	1.1607 ppm	-0.0006 ppm	0.1836 ppm	0.0011 ppm	-0.0032 ppm	0.0001 ppm	0.2048 ppm
Concentration per Run 2	1.1657 ppm	-0.0009 ppm	0.1984 ppm	0.0011 ppm	-0.0014 ppm	0.0004 ppm	0.2053 ppm
Concentration per Run 3	1.1715 ppm	-0.0001 ppm	0.1993 ppm	0.0015 ppm	-0.0018 ppm	0.0004 ppm	0.2064 ppm
Concentration RSD	0.5 %	71.4 %	4.5 %	19.2 %	44.7 %	62.4 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.7333 %	98.8427 %	99.1532 %	98.2622 %	96.7943 %	103.0481 %
Concentration per Run 1	110.9503 %	98.3115 %	99.1325 %	101.1512 %	97.0254 %	102.3654 %
Concentration per Run 2	103.2426 %	99.4264 %	99.1497 %	97.1886 %	96.7521 %	103.6620 %
Concentration per Run 3	103.0071 %	98.7902 %	99.1775 %	96.4467 %	96.6055 %	103.1169 %
Concentration RSD	4.3 %	0.6 %	0.0 %	2.6 %	0.2 %	0.6 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-06 wg1935283
Analysis started at: 6/19/2024 12:18:39 AM
Comments <Comment>
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0365 ppm	0.0001 ppm	0.0087 ppm	0.0150 ppm	0.0000 ppm	93.4701 ppm
Concentration per Run 1	0.0002 ppm	0.0363 ppm	-0.0002 ppm	0.0086 ppm	0.0153 ppm	0.0000 ppm	94.8609 ppm
Concentration per Run 2	-0.0007 ppm	0.0334 ppm	0.0001 ppm	0.0087 ppm	0.0148 ppm	0.0000 ppm	92.9728 ppm
Concentration per Run 3	-0.0003 ppm	0.0398 ppm	0.0004 ppm	0.0089 ppm	0.0148 ppm	0.0001 ppm	92.5765 ppm
Concentration RSD	192.1 %	8.7 %	329.0 %	2.0 %	1.8 %	115.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	0.0022 ppm	0.0007 ppm	0.0146 ppm	0.0139 ppm	0.6498 ppm	1.0531 ppm
Concentration per Run 1	0.0014 ppm	0.0021 ppm	0.0008 ppm	0.0145 ppm	0.0135 ppm	0.6769 ppm	1.0608 ppm
Concentration per Run 2	0.0014 ppm	0.0022 ppm	0.0007 ppm	0.0149 ppm	0.0136 ppm	0.6739 ppm	1.0497 ppm
Concentration per Run 3	0.0014 ppm	0.0023 ppm	0.0007 ppm	0.0144 ppm	0.0148 ppm	0.5987 ppm	1.0488 ppm
Concentration RSD	1.6 %	4.4 %	6.4 %	1.8 %	5.3 %	6.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1364 ppm	0.0003 ppm	122.7847 ppm	0.0104 ppm	0.0662 ppm	0.0010 ppm	0.0019 ppm
Concentration per Run 1	0.1371 ppm	0.0002 ppm	124.8817 ppm	0.0107 ppm	0.0650 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.1359 ppm	0.0004 ppm	122.1527 ppm	0.0104 ppm	0.0671 ppm	0.0017 ppm	0.0032 ppm
Concentration per Run 3	0.1361 ppm	0.0002 ppm	121.3197 ppm	0.0101 ppm	0.0666 ppm	-0.0001 ppm	0.0020 ppm
Concentration RSD	0.5 %	46.3 %	1.5 %	3.2 %	1.6 %	95.6 %	75.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.6030 ppm	-0.0003 ppm	0.2524 ppm	0.0014 ppm	-0.0013 ppm	0.0005 ppm	0.2701 ppm
Concentration per Run 1	1.5977 ppm	-0.0002 ppm	0.2558 ppm	0.0012 ppm	-0.0030 ppm	0.0006 ppm	0.2692 ppm
Concentration per Run 2	1.6077 ppm	-0.0002 ppm	0.2516 ppm	0.0014 ppm	0.0007 ppm	0.0004 ppm	0.2709 ppm
Concentration per Run 3	1.6037 ppm	-0.0005 ppm	0.2497 ppm	0.0017 ppm	-0.0016 ppm	0.0005 ppm	0.2702 ppm
Concentration RSD	0.3 %	45.0 %	1.2 %	17.0 %	141.5 %	22.0 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.6545 %	96.1612 %	97.7775 %	94.4760 %	95.7562 %	101.0989 %
Concentration per Run 1	99.7558 %	95.3700 %	97.9631 %	93.1705 %	96.1776 %	100.8294 %
Concentration per Run 2	102.3597 %	96.2220 %	97.5566 %	94.9954 %	95.3632 %	100.9848 %
Concentration per Run 3	102.8480 %	96.8917 %	97.8129 %	95.2621 %	95.7278 %	101.4824 %
Concentration RSD	1.6 %	0.8 %	0.2 %	1.2 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-07 wg1935283
Analysis started at: 6/19/2024 12:24:53 AM
Comments <Comment>
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0357 ppm	0.0001 ppm	0.0112 ppm	0.0208 ppm	0.0000 ppm	86.8522 ppm
Concentration per Run 1	-0.0003 ppm	0.0347 ppm	-0.0013 ppm	0.0115 ppm	0.0211 ppm	0.0000 ppm	88.3939 ppm
Concentration per Run 2	-0.0002 ppm	0.0258 ppm	0.0012 ppm	0.0111 ppm	0.0205 ppm	0.0000 ppm	86.3717 ppm
Concentration per Run 3	-0.0005 ppm	0.0465 ppm	0.0004 ppm	0.0111 ppm	0.0208 ppm	0.0001 ppm	85.7909 ppm
Concentration RSD	51.4 %	29.2 %	1,661.2 %	2.2 %	1.4 %	97.9 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0002 ppm	0.0019 ppm	0.0266 ppm	0.0112 ppm	1.2405 ppm	1.6380 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0017 ppm	0.0264 ppm	0.0096 ppm	1.2921 ppm	1.6347 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0020 ppm	0.0266 ppm	0.0114 ppm	1.1970 ppm	1.6420 ppm
Concentration per Run 3	0.0006 ppm	0.0005 ppm	0.0021 ppm	0.0268 ppm	0.0124 ppm	1.2325 ppm	1.6372 ppm
Concentration RSD	6.0 %	115.5 %	9.7 %	0.9 %	12.6 %	3.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0260 ppm	0.0003 ppm	123.2097 ppm	0.0045 ppm	0.0334 ppm	0.0003 ppm	0.0031 ppm
Concentration per Run 1	0.0258 ppm	0.0003 ppm	125.6694 ppm	0.0043 ppm	0.0343 ppm	0.0013 ppm	0.0033 ppm
Concentration per Run 2	0.0261 ppm	0.0005 ppm	122.4071 ppm	0.0045 ppm	0.0324 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	0.0261 ppm	0.0002 ppm	121.5526 ppm	0.0046 ppm	0.0333 ppm	-0.0003 ppm	0.0033 ppm
Concentration RSD	0.8 %	46.8 %	1.8 %	3.7 %	2.9 %	260.9 %	11.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8459 ppm	0.0000 ppm	0.2350 ppm	0.0014 ppm	-0.0016 ppm	0.0010 ppm	0.1245 ppm
Concentration per Run 1	0.8424 ppm	0.0000 ppm	0.2391 ppm	0.0011 ppm	-0.0011 ppm	0.0012 ppm	0.1244 ppm
Concentration per Run 2	0.8493 ppm	0.0006 ppm	0.2336 ppm	0.0016 ppm	-0.0018 ppm	0.0012 ppm	0.1249 ppm
Concentration per Run 3	0.8460 ppm	-0.0005 ppm	0.2323 ppm	0.0014 ppm	-0.0020 ppm	0.0007 ppm	0.1243 ppm
Concentration RSD	0.4 %	1,243.2 %	1.5 %	18.4 %	27.9 %	32.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.4331 %	97.1718 %	97.7104 %	93.4518 %	95.5889 %	101.2491 %
Concentration per Run 1	98.7460 %	96.9385 %	97.6755 %	92.7678 %	95.7379 %	100.9104 %
Concentration per Run 2	101.0721 %	97.2164 %	97.7719 %	93.7047 %	95.4439 %	101.2935 %
Concentration per Run 3	101.4813 %	97.3605 %	97.6837 %	93.8828 %	95.5849 %	101.5432 %
Concentration RSD	1.5 %	0.2 %	0.1 %	0.6 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-08 wg1935283
Analysis started at: 6/19/2024 12:31:06 AM
Comments <Comment>
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0225 ppm	0.0012 ppm	0.0213 ppm	0.0110 ppm	-0.0001 ppm	81.1388 ppm
Concentration per Run 1	-0.0003 ppm	0.0201 ppm	0.0013 ppm	0.0217 ppm	0.0107 ppm	-0.0001 ppm	79.3460 ppm
Concentration per Run 2	-0.0010 ppm	0.0158 ppm	0.0011 ppm	0.0210 ppm	0.0111 ppm	0.0000 ppm	81.9711 ppm
Concentration per Run 3	-0.0003 ppm	0.0316 ppm	0.0012 ppm	0.0212 ppm	0.0112 ppm	-0.0001 ppm	82.0992 ppm
Concentration RSD	71.0 %	36.3 %	7.3 %	1.6 %	2.5 %	143.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0030 ppm	0.0015 ppm	0.0010 ppm	0.2604 ppm	0.0107 ppm	1.0070 ppm	1.3516 ppm
Concentration per Run 1	0.0030 ppm	0.0014 ppm	0.0011 ppm	0.2602 ppm	0.0099 ppm	0.9952 ppm	1.3489 ppm
Concentration per Run 2	0.0030 ppm	0.0016 ppm	0.0008 ppm	0.2621 ppm	0.0124 ppm	0.9947 ppm	1.3540 ppm
Concentration per Run 3	0.0030 ppm	0.0015 ppm	0.0010 ppm	0.2590 ppm	0.0098 ppm	1.0311 ppm	1.3519 ppm
Concentration RSD	0.6 %	5.3 %	15.7 %	0.6 %	13.5 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1051 ppm	0.0004 ppm	115.3112 ppm	0.0134 ppm	0.0407 ppm	0.0014 ppm	0.0032 ppm
Concentration per Run 1	0.1019 ppm	0.0005 ppm	112.7472 ppm	0.0134 ppm	0.0406 ppm	0.0022 ppm	0.0020 ppm
Concentration per Run 2	0.1066 ppm	0.0003 ppm	116.6944 ppm	0.0133 ppm	0.0407 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 3	0.1068 ppm	0.0003 ppm	116.4920 ppm	0.0133 ppm	0.0409 ppm	0.0017 ppm	0.0050 ppm
Concentration RSD	2.6 %	40.2 %	1.9 %	0.4 %	0.4 %	78.1 %	52.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1488 ppm	0.0012 ppm	0.1927 ppm	0.0013 ppm	-0.0022 ppm	0.0005 ppm	0.7467 ppm
Concentration per Run 1	2.1583 ppm	0.0010 ppm	0.1887 ppm	0.0014 ppm	-0.0024 ppm	0.0006 ppm	0.7502 ppm
Concentration per Run 2	2.1424 ppm	0.0014 ppm	0.1943 ppm	0.0015 ppm	-0.0027 ppm	0.0008 ppm	0.7442 ppm
Concentration per Run 3	2.1458 ppm	0.0012 ppm	0.1952 ppm	0.0011 ppm	-0.0016 ppm	0.0002 ppm	0.7457 ppm
Concentration RSD	0.4 %	15.0 %	1.8 %	14.9 %	24.4 %	59.4 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	103.8177 %	97.8390 %	98.5778 %	96.3479 %	96.6335 %	101.9526 %
Concentration per Run 1	106.0330 %	97.8747 %	98.3181 %	97.3673 %	96.2610 %	102.1103 %
Concentration per Run 2	102.2817 %	97.4309 %	99.3462 %	95.9213 %	96.8233 %	101.7003 %
Concentration per Run 3	103.1383 %	98.2114 %	98.0691 %	95.7550 %	96.8161 %	102.0471 %
Concentration RSD	1.9 %	0.4 %	0.7 %	0.9 %	0.3 %	0.2 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-09 wg1935283
Analysis started at: 6/19/2024 12:37:20 AM
Comments <Comment>
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0295 ppm	0.0011 ppm	0.0584 ppm	0.0037 ppm	0.0000 ppm	79.3499 ppm
Concentration per Run 1	-0.0003 ppm	0.0363 ppm	0.0007 ppm	0.0589 ppm	0.0037 ppm	0.0000 ppm	78.9241 ppm
Concentration per Run 2	-0.0002 ppm	0.0253 ppm	0.0009 ppm	0.0589 ppm	0.0037 ppm	0.0000 ppm	79.3570 ppm
Concentration per Run 3	0.0000 ppm	0.0269 ppm	0.0018 ppm	0.0575 ppm	0.0038 ppm	0.0000 ppm	79.7686 ppm
Concentration RSD	105.5 %	20.0 %	51.3 %	1.4 %	1.9 %	122.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0194 ppm	0.0045 ppm	0.0005 ppm	1.2890 ppm	0.0042 ppm	1.0415 ppm	2.4525 ppm
Concentration per Run 1	0.0196 ppm	0.0044 ppm	0.0004 ppm	1.2864 ppm	0.0040 ppm	1.0108 ppm	2.4373 ppm
Concentration per Run 2	0.0195 ppm	0.0044 ppm	0.0003 ppm	1.2902 ppm	0.0039 ppm	1.0625 ppm	2.4547 ppm
Concentration per Run 3	0.0193 ppm	0.0046 ppm	0.0007 ppm	1.2905 ppm	0.0048 ppm	1.0512 ppm	2.4655 ppm
Concentration RSD	0.8 %	2.9 %	48.3 %	0.2 %	10.7 %	2.6 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4937 ppm	0.0000 ppm	120.5396 ppm	0.0295 ppm	0.2581 ppm	-0.0010 ppm	0.0017 ppm
Concentration per Run 1	0.4913 ppm	0.0000 ppm	120.1659 ppm	0.0295 ppm	0.2592 ppm	-0.0002 ppm	0.0027 ppm
Concentration per Run 2	0.4940 ppm	-0.0001 ppm	120.7261 ppm	0.0296 ppm	0.2584 ppm	-0.0027 ppm	0.0009 ppm
Concentration per Run 3	0.4960 ppm	0.0001 ppm	120.7267 ppm	0.0295 ppm	0.2566 ppm	0.0000 ppm	0.0016 ppm
Concentration RSD	0.5 %	1,804.4 %	0.3 %	0.1 %	0.5 %	157.0 %	50.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7708 ppm	-0.0001 ppm	0.2498 ppm	0.0013 ppm	-0.0021 ppm	0.0008 ppm	6.9583 ppm
Concentration per Run 1	0.7765 ppm	0.0005 ppm	0.2485 ppm	0.0012 ppm	-0.0026 ppm	0.0006 ppm	7.0093 ppm
Concentration per Run 2	0.7722 ppm	-0.0005 ppm	0.2504 ppm	0.0011 ppm	-0.0024 ppm	0.0010 ppm	6.9751 ppm
Concentration per Run 3	0.7639 ppm	-0.0005 ppm	0.2505 ppm	0.0016 ppm	-0.0012 ppm	0.0008 ppm	6.8905 ppm
Concentration RSD	0.8 %	419.8 %	0.5 %	21.9 %	36.0 %	27.9 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.4199 %	98.3385 %	98.3457 %	95.1865 %	95.7863 %	101.0089 %
Concentration per Run 1	102.2621 %	98.1630 %	97.9828 %	93.3619 %	95.0814 %	101.3099 %
Concentration per Run 2	102.7405 %	98.5685 %	98.2595 %	96.1627 %	95.5487 %	101.1502 %
Concentration per Run 3	102.2571 %	98.2841 %	98.7950 %	96.0351 %	96.7288 %	100.5666 %
Concentration RSD	0.3 %	0.2 %	0.4 %	1.7 %	0.9 %	0.4 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-10 wg1935283
Analysis started at: 6/19/2024 12:43:31 AM
Comments <Comment>
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0009 ppm	0.0315 ppm	0.0003 ppm	0.0156 ppm	0.0248 ppm	0.0000 ppm	75.5485 ppm
Concentration per Run 1	-0.0009 ppm	0.0285 ppm	0.0017 ppm	0.0153 ppm	0.0244 ppm	0.0000 ppm	74.5452 ppm
Concentration per Run 2	-0.0006 ppm	0.0334 ppm	0.0002 ppm	0.0156 ppm	0.0252 ppm	-0.0001 ppm	76.5771 ppm
Concentration per Run 3	-0.0010 ppm	0.0326 ppm	-0.0010 ppm	0.0158 ppm	0.0249 ppm	0.0001 ppm	75.5231 ppm
Concentration RSD	22.7 %	8.3 %	413.2 %	1.8 %	1.6 %	1,134.7 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0022 ppm	0.0019 ppm	0.0011 ppm	0.0550 ppm	0.0046 ppm	1.1385 ppm	1.4591 ppm
Concentration per Run 1	0.0022 ppm	0.0019 ppm	0.0010 ppm	0.0549 ppm	0.0020 ppm	1.1096 ppm	1.4559 ppm
Concentration per Run 2	0.0022 ppm	0.0018 ppm	0.0013 ppm	0.0548 ppm	0.0069 ppm	1.1885 ppm	1.4626 ppm
Concentration per Run 3	0.0023 ppm	0.0020 ppm	0.0010 ppm	0.0553 ppm	0.0050 ppm	1.1176 ppm	1.4586 ppm
Concentration RSD	1.1 %	4.8 %	15.4 %	0.5 %	53.3 %	3.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1037 ppm	0.0002 ppm	120.5091 ppm	0.0060 ppm	0.0635 ppm	0.0014 ppm	0.0029 ppm
Concentration per Run 1	0.1010 ppm	0.0004 ppm	118.8457 ppm	0.0062 ppm	0.0645 ppm	0.0011 ppm	0.0042 ppm
Concentration per Run 2	0.1059 ppm	0.0001 ppm	122.3719 ppm	0.0060 ppm	0.0631 ppm	0.0020 ppm	0.0039 ppm
Concentration per Run 3	0.1041 ppm	0.0002 ppm	120.3097 ppm	0.0057 ppm	0.0630 ppm	0.0009 ppm	0.0007 ppm
Concentration RSD	2.4 %	75.7 %	1.5 %	4.1 %	1.4 %	41.0 %	67.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9531 ppm	0.0002 ppm	0.1817 ppm	0.0011 ppm	-0.0017 ppm	0.0007 ppm	0.5930 ppm
Concentration per Run 1	1.9599 ppm	0.0003 ppm	0.1788 ppm	0.0013 ppm	-0.0008 ppm	0.0008 ppm	0.5949 ppm
Concentration per Run 2	1.9611 ppm	0.0002 ppm	0.1845 ppm	0.0007 ppm	-0.0026 ppm	0.0006 ppm	0.5945 ppm
Concentration per Run 3	1.9384 ppm	0.0000 ppm	0.1818 ppm	0.0013 ppm	-0.0016 ppm	0.0007 ppm	0.5895 ppm
Concentration RSD	0.7 %	75.8 %	1.6 %	29.3 %	54.8 %	15.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	101.2615 %	97.7853 %	99.1084 %	94.4485 %	96.6482 %	101.7308 %
Concentration per Run 1	102.7198 %	98.1479 %	98.6661 %	96.5744 %	96.2759 %	102.3242 %
Concentration per Run 2	99.6505 %	97.5591 %	99.2069 %	93.4660 %	96.3954 %	101.4458 %
Concentration per Run 3	101.4144 %	97.6489 %	99.4523 %	93.3050 %	97.2732 %	101.4226 %
Concentration RSD	1.5 %	0.3 %	0.4 %	2.0 %	0.6 %	0.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: L2433113-11 wg1935283
Analysis started at: 6/19/2024 12:49:44 AM
Comments <Comment>
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.0328 ppm	0.0007 ppm	0.0090 ppm	0.0267 ppm	0.0000 ppm	79.9985 ppm
Concentration per Run 1	-0.0002 ppm	0.0344 ppm	0.0002 ppm	0.0095 ppm	0.0271 ppm	0.0001 ppm	80.9144 ppm
Concentration per Run 2	-0.0007 ppm	0.0322 ppm	0.0013 ppm	0.0092 ppm	0.0265 ppm	-0.0002 ppm	79.5339 ppm
Concentration per Run 3	-0.0008 ppm	0.0318 ppm	0.0005 ppm	0.0085 ppm	0.0267 ppm	0.0001 ppm	79.5471 ppm
Concentration RSD	62.0 %	4.2 %	90.4 %	5.6 %	1.2 %	544.5 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0007 ppm	0.0004 ppm	0.0021 ppm	0.0044 ppm	0.0092 ppm	0.8408 ppm	0.5905 ppm
Concentration per Run 1	0.0008 ppm	0.0003 ppm	0.0024 ppm	0.0042 ppm	0.0077 ppm	0.8738 ppm	0.5868 ppm
Concentration per Run 2	0.0007 ppm	0.0004 ppm	0.0022 ppm	0.0043 ppm	0.0111 ppm	0.8160 ppm	0.5922 ppm
Concentration per Run 3	0.0007 ppm	0.0006 ppm	0.0017 ppm	0.0047 ppm	0.0088 ppm	0.8327 ppm	0.5924 ppm
Concentration RSD	1.6 %	41.0 %	17.4 %	5.9 %	18.8 %	3.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0688 ppm	0.0002 ppm	119.8564 ppm	0.0032 ppm	0.1046 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 1	0.0693 ppm	0.0003 ppm	121.6963 ppm	0.0030 ppm	0.1045 ppm	0.0015 ppm	0.0041 ppm
Concentration per Run 2	0.0686 ppm	0.0002 ppm	118.7824 ppm	0.0032 ppm	0.1056 ppm	0.0023 ppm	0.0026 ppm
Concentration per Run 3	0.0686 ppm	0.0000 ppm	119.0906 ppm	0.0033 ppm	0.1037 ppm	-0.0003 ppm	0.0006 ppm
Concentration RSD	0.6 %	67.2 %	1.3 %	6.1 %	0.9 %	113.8 %	72.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9498 ppm	0.0002 ppm	0.1649 ppm	0.0015 ppm	-0.0017 ppm	0.0010 ppm	0.1604 ppm
Concentration per Run 1	0.9498 ppm	0.0003 ppm	0.1669 ppm	0.0014 ppm	-0.0021 ppm	0.0010 ppm	0.1604 ppm
Concentration per Run 2	0.9548 ppm	0.0003 ppm	0.1640 ppm	0.0015 ppm	-0.0014 ppm	0.0008 ppm	0.1612 ppm
Concentration per Run 3	0.9447 ppm	-0.0001 ppm	0.1638 ppm	0.0016 ppm	-0.0015 ppm	0.0011 ppm	0.1597 ppm
Concentration RSD	0.5 %	131.0 %	1.0 %	5.8 %	22.1 %	11.8 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	100.6193 %	97.8278 %	98.8570 %	94.4075 %	96.4259 %	101.2220 %
Concentration per Run 1	99.6658 %	98.1468 %	98.7909 %	93.9860 %	96.5195 %	101.4607 %
Concentration per Run 2	101.2198 %	97.8703 %	98.7599 %	94.5654 %	96.0376 %	101.2930 %
Concentration per Run 3	100.9724 %	97.4665 %	99.0201 %	94.6710 %	96.7207 %	100.9123 %
Concentration RSD	0.8 %	0.3 %	0.1 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:55:58 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4876 ppm	0.4918 ppm	0.4711 ppm	0.4729 ppm	0.4763 ppm	0.4859 ppm	0.4946 ppm
Concentration per Run 1	0.4908 ppm	0.4898 ppm	0.4689 ppm	0.4721 ppm	0.4722 ppm	0.4814 ppm	0.4876 ppm
Concentration per Run 2	0.4862 ppm	0.4858 ppm	0.4716 ppm	0.4731 ppm	0.4793 ppm	0.4900 ppm	0.5004 ppm
Concentration per Run 3	0.4859 ppm	0.4999 ppm	0.4728 ppm	0.4735 ppm	0.4775 ppm	0.4862 ppm	0.4959 ppm
Recovery Percentage 1	97.529 %	98.368 %	94.216 %	94.577 %	95.262 %	97.173 %	98.930 %
Concentration RSD	0.6 %	1.5 %	0.4 %	0.2 %	0.8 %	0.9 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4753 ppm	0.4867 ppm	0.4904 ppm	0.4796 ppm	0.4981 ppm	4.8282 ppm	0.4773 ppm
Concentration per Run 1	0.4756 ppm	0.4868 ppm	0.4933 ppm	0.4825 ppm	0.4919 ppm	4.7757 ppm	0.4794 ppm
Concentration per Run 2	0.4751 ppm	0.4868 ppm	0.4873 ppm	0.4789 ppm	0.5004 ppm	4.8475 ppm	0.4779 ppm
Concentration per Run 3	0.4752 ppm	0.4867 ppm	0.4905 ppm	0.4775 ppm	0.5020 ppm	4.8614 ppm	0.4745 ppm
Recovery Percentage 1	95.059 %	97.349 %	98.078 %	95.925 %	99.617 %	96.564 %	95.458 %
Concentration RSD	0.1 %	0.0 %	0.6 %	0.5 %	1.1 %	1.0 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4831 ppm	0.4691 ppm	9.5962 ppm	0.4890 ppm	0.4856 ppm	0.4838 ppm	0.4822 ppm
Concentration per Run 1	0.4784 ppm	0.4670 ppm	9.5158 ppm	0.4894 ppm	0.4859 ppm	0.4809 ppm	0.4836 ppm
Concentration per Run 2	0.4874 ppm	0.4685 ppm	9.6568 ppm	0.4883 ppm	0.4858 ppm	0.4835 ppm	0.4792 ppm
Concentration per Run 3	0.4834 ppm	0.4717 ppm	9.6160 ppm	0.4893 ppm	0.4852 ppm	0.4869 ppm	0.4837 ppm
Recovery Percentage 1	96.611 %	93.814 %	95.962 %	97.803 %	97.123 %	96.752 %	96.439 %
Concentration RSD	0.9 %	0.5 %	0.8 %	0.1 %	0.1 %	0.6 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3636 ppm	0.4772 ppm	0.4665 ppm	0.4761 ppm	0.4811 ppm	0.4810 ppm	0.4865 ppm
Concentration per Run 1	5.3663 ppm	0.4781 ppm	0.4626 ppm	0.4791 ppm	0.4817 ppm	0.4834 ppm	0.4871 ppm
Concentration per Run 2	5.3571 ppm	0.4768 ppm	0.4698 ppm	0.4760 ppm	0.4804 ppm	0.4799 ppm	0.4864 ppm
Concentration per Run 3	5.3675 ppm	0.4767 ppm	0.4671 ppm	0.4732 ppm	0.4813 ppm	0.4796 ppm	0.4861 ppm
Recovery Percentage 1	102.164 %	95.443 %	93.295 %	95.224 %	96.225 %	96.195 %	97.309 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.6 %	0.1 %	0.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.2531 %	102.0030 %	103.5687 %	95.9422 %	104.0160 %	105.0423 %
Concentration per Run 1	105.1097 %	100.6561 %	103.6491 %	95.5672 %	104.0256 %	103.8845 %
Concentration per Run 2	103.5226 %	102.8337 %	103.3260 %	95.9761 %	104.0887 %	105.5280 %
Concentration per Run 3	104.1269 %	102.5192 %	103.7311 %	96.2833 %	103.9337 %	105.7142 %
Recovery Percentage 1						
Concentration RSD	0.8 %	1.2 %	0.2 %	0.4 %	0.1 %	1.0 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/19/2024 1:02:03 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0165 ppm	0.0008 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0296 ppm
Concentration per Run 1	-0.0007 ppm	0.0146 ppm	0.0013 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0281 ppm
Concentration per Run 2	-0.0005 ppm	0.0173 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0314 ppm
Concentration per Run 3	-0.0005 ppm	0.0176 ppm	0.0010 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0293 ppm
Recovery Percentage 1	-8.320 %	16.495 %	15.066 %	-1.452 %	-0.661 %	2.363 %	29.596 %
Concentration RSD	18.9 %	10.0 %	86.9 %	46.6 %	155.9 %	52.1 %	5.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0032 ppm	-0.0705 ppm	0.0054 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0008 ppm	0.0026 ppm	-0.0266 ppm	0.0048 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0004 ppm	-0.0005 ppm	0.0035 ppm	-0.0834 ppm	0.0049 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0035 ppm	-0.1016 ppm	0.0066 ppm
Recovery Percentage 1	1.132 %	0.565 %	-1.524 %	-5.281 %	6.384 %	-2.821 %	5.407 %
Concentration RSD	49.0 %	121.2 %	160.7 %	45.1 %	15.4 %	55.4 %	18.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0577 ppm	0.0004 ppm	0.0005 ppm	0.0008 ppm	0.0040 ppm
Concentration per Run 1	-0.0006 ppm	0.0010 ppm	0.0522 ppm	0.0006 ppm	0.0003 ppm	0.0007 ppm	0.0076 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	0.0574 ppm	0.0004 ppm	0.0009 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0005 ppm	0.0007 ppm	0.0635 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0042 ppm
Recovery Percentage 1	-0.934 %	1.894 %	2.884 %	1.551 %	5.196 %	1.591 %	39.972 %
Concentration RSD	595.0 %	19.9 %	9.8 %	56.2 %	65.4 %	83.8 %	91.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0018 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	-0.0017 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 2	-0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0024 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0003 ppm	-0.0010 ppm
Recovery Percentage 1	-0.351 %	-0.921 %	0.286 %	1.688 %	0.995 %	1.783 %	-21.121 %
Concentration RSD	34.5 %	30.0 %	313.3 %	181.2 %	166.4 %	69.5 %	9.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	104.7729 %	103.8996 %	104.8038 %	85.8186 %	101.3681 %	101.2536 %
Concentration per Run 1	104.6473 %	104.1082 %	104.8412 %	83.4643 %	100.8948 %	101.0813 %
Concentration per Run 2	104.3535 %	103.8260 %	104.7698 %	85.9902 %	101.5616 %	101.3161 %
Concentration per Run 3	105.3180 %	103.7645 %	104.8004 %	88.0013 %	101.6479 %	101.3633 %
Recovery Percentage 1						
Concentration RSD	0.5 %	0.2 %	0.0 %	2.6 %	0.4 %	0.1 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCV
Analysis started at: 6/19/2024 1:08:25 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4863 ppm	0.4738 ppm	0.4692 ppm	0.4713 ppm	0.4668 ppm	0.4750 ppm	0.4917 ppm
Concentration per Run 1	0.4863 ppm	0.4697 ppm	0.4702 ppm	0.4710 ppm	0.4544 ppm	0.4612 ppm	0.4744 ppm
Concentration per Run 2	0.4871 ppm	0.4691 ppm	0.4697 ppm	0.4712 ppm	0.4716 ppm	0.4814 ppm	0.5010 ppm
Concentration per Run 3	0.4856 ppm	0.4827 ppm	0.4677 ppm	0.4719 ppm	0.4744 ppm	0.4823 ppm	0.4996 ppm
Recovery Percentage 1	97.269 %	94.768 %	93.836 %	94.270 %	93.360 %	94.995 %	98.336 %
Concentration RSD	0.1 %	1.6 %	0.3 %	0.1 %	2.3 %	2.5 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4720 ppm	0.4842 ppm	0.4866 ppm	0.4779 ppm	0.4885 ppm	4.7496 ppm	0.4775 ppm
Concentration per Run 1	0.4719 ppm	0.4835 ppm	0.4863 ppm	0.4785 ppm	0.4766 ppm	4.6216 ppm	0.4770 ppm
Concentration per Run 2	0.4713 ppm	0.4840 ppm	0.4874 ppm	0.4783 ppm	0.4903 ppm	4.8220 ppm	0.4751 ppm
Concentration per Run 3	0.4728 ppm	0.4850 ppm	0.4861 ppm	0.4769 ppm	0.4986 ppm	4.8051 ppm	0.4805 ppm
Recovery Percentage 1	94.399 %	96.837 %	97.314 %	95.575 %	97.696 %	94.991 %	95.508 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	2.3 %	2.3 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4748 ppm	0.4656 ppm	9.3922 ppm	0.4879 ppm	0.4848 ppm	0.4839 ppm	0.4820 ppm
Concentration per Run 1	0.4612 ppm	0.4630 ppm	9.1356 ppm	0.4875 ppm	0.4852 ppm	0.4825 ppm	0.4820 ppm
Concentration per Run 2	0.4809 ppm	0.4655 ppm	9.5242 ppm	0.4873 ppm	0.4843 ppm	0.4835 ppm	0.4830 ppm
Concentration per Run 3	0.4824 ppm	0.4685 ppm	9.5168 ppm	0.4888 ppm	0.4851 ppm	0.4856 ppm	0.4810 ppm
Recovery Percentage 1	94.968 %	93.127 %	93.922 %	97.571 %	96.969 %	96.777 %	96.399 %
Concentration RSD	2.5 %	0.6 %	2.4 %	0.2 %	0.1 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3514 ppm	0.4734 ppm	0.4569 ppm	0.4767 ppm	0.4790 ppm	0.4793 ppm	0.4841 ppm
Concentration per Run 1	5.3537 ppm	0.4741 ppm	0.4449 ppm	0.4774 ppm	0.4785 ppm	0.4795 ppm	0.4841 ppm
Concentration per Run 2	5.3478 ppm	0.4728 ppm	0.4616 ppm	0.4778 ppm	0.4799 ppm	0.4791 ppm	0.4835 ppm
Concentration per Run 3	5.3527 ppm	0.4733 ppm	0.4641 ppm	0.4749 ppm	0.4786 ppm	0.4791 ppm	0.4846 ppm
Recovery Percentage 1	101.931 %	94.680 %	91.376 %	95.342 %	95.803 %	95.851 %	96.811 %
Concentration RSD	0.1 %	0.1 %	2.3 %	0.3 %	0.2 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	105.7308 %	103.0521 %	103.6452 %	98.3274 %	103.8324 %	105.3559 %
Concentration per Run 1	108.6612 %	103.1005 %	103.5988 %	99.6937 %	103.7262 %	105.4899 %
Concentration per Run 2	104.2303 %	102.8332 %	103.8822 %	97.6297 %	104.0234 %	105.0523 %
Concentration per Run 3	104.3008 %	103.2228 %	103.4547 %	97.6589 %	103.7474 %	105.5256 %
Recovery Percentage 1						
Concentration RSD	2.4 %	0.2 %	0.2 %	1.2 %	0.2 %	0.3 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: CCB
Analysis started at: 6/19/2024 1:14:30 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	0.0114 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0320 ppm
Concentration per Run 1	-0.0009 ppm	0.0286 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0306 ppm
Concentration per Run 2	-0.0007 ppm	-0.0035 ppm	-0.0003 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0344 ppm
Concentration per Run 3	-0.0010 ppm	0.0091 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0311 ppm
Recovery Percentage 1	-12.088 %	11.376 %	-3.086 %	-0.061 %	0.677 %	1.478 %	32.021 %
Concentration RSD	15.8 %	142.2 %	204.5 %	937.6 %	183.4 %	22.1 %	6.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0027 ppm	-0.0944 ppm	0.0054 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0033 ppm	-0.0852 ppm	0.0078 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0018 ppm	-0.1175 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0030 ppm	-0.0805 ppm	0.0060 ppm
Recovery Percentage 1	0.417 %	0.048 %	0.816 %	-0.965 %	5.427 %	-3.777 %	5.406 %
Concentration RSD	258.9 %	778.3 %	173.5 %	350.5 %	28.9 %	21.3 %	50.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0012 ppm	0.0442 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	0.0014 ppm	0.0383 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm	-0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0012 ppm	0.0473 ppm	0.0004 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0011 ppm	0.0471 ppm	0.0003 ppm	-0.0007 ppm	0.0008 ppm	0.0004 ppm
Recovery Percentage 1	4.780 %	2.471 %	2.211 %	1.076 %	-0.026 %	1.014 %	-0.268 %
Concentration RSD	31.6 %	14.7 %	11.7 %	53.9 %	24,373.3 %	151.1 %	1,768.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0011 ppm	-0.0005 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 1	-0.0012 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 2	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 3	-0.0017 ppm	-0.0011 ppm	-0.0001 ppm	0.0003 ppm	-0.0018 ppm	-0.0001 ppm	-0.0011 ppm
Recovery Percentage 1	-0.218 %	-1.051 %	-0.630 %	1.795 %	-0.546 %	-1.787 %	-20.688 %
Concentration RSD	64.8 %	101.1 %	116.0 %	94.3 %	1,315.9 %	72.6 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	106.9989 %	106.8610 %	104.8180 %	88.0746 %	101.5235 %	103.5464 %
Concentration per Run 1	109.6197 %	103.9141 %	105.4903 %	87.3654 %	101.5598 %	100.7669 %
Concentration per Run 2	105.3680 %	109.3208 %	104.4536 %	87.5803 %	101.5565 %	105.9998 %
Concentration per Run 3	106.0091 %	107.3480 %	104.5102 %	89.2782 %	101.4542 %	103.8725 %
Recovery Percentage 1						
Concentration RSD	2.1 %	2.6 %	0.6 %	1.2 %	0.1 %	2.5 %

ICP DataTrace 5

6/19/2024 6:16:54 AM

LabBook: WG1935621_06182024T5.imexp

Sample: LLOQ RL
Analysis started at: 6/19/2024 1:20:51 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0066 ppm	0.1108 ppm	0.0045 ppm	0.0287 ppm	0.0100 ppm	0.0051 ppm	0.1088 ppm
Concentration per Run 1	0.0067 ppm	0.1206 ppm	0.0046 ppm	0.0292 ppm	0.0100 ppm	0.0051 ppm	0.1057 ppm
Concentration per Run 2	0.0064 ppm	0.1060 ppm	0.0040 ppm	0.0286 ppm	0.0101 ppm	0.0050 ppm	0.1086 ppm
Concentration per Run 3	0.0066 ppm	0.1059 ppm	0.0048 ppm	0.0282 ppm	0.0100 ppm	0.0052 ppm	0.1121 ppm
Recovery Percentage 1	93.751 %	110.837 %	89.737 %	95.514 %	100.355 %	102.658 %	108.809 %
Concentration RSD	2.5 %	7.6 %	10.0 %	1.7 %	0.8 %	2.4 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0201 ppm	0.0103 ppm	0.0103 ppm	**0.0626 ppm**	2.5593 ppm	0.1018 ppm
Concentration per Run 1	0.0040 ppm	0.0203 ppm	0.0099 ppm	0.0104 ppm	0.0640 ppm	2.6221 ppm	0.1030 ppm
Concentration per Run 2	0.0040 ppm	0.0200 ppm	0.0103 ppm	0.0103 ppm	0.0603 ppm	2.5257 ppm	0.1013 ppm
Concentration per Run 3	0.0040 ppm	0.0201 ppm	0.0107 ppm	0.0103 ppm	0.0636 ppm	2.5302 ppm	0.1010 ppm
Recovery Percentage 1	101.202 %	100.704 %	102.931 %	103.227 %	125.271 %	102.373 %	101.787 %
Concentration RSD	0.0 %	0.7 %	4.2 %	0.9 %	**3.3 %**	2.1 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0113 ppm	0.0487 ppm	2.1435 ppm	0.0254 ppm	0.0101 ppm	0.0506 ppm	**0.0133 ppm**
Concentration per Run 1	0.0112 ppm	0.0487 ppm	2.1486 ppm	0.0254 ppm	0.0097 ppm	0.0501 ppm	0.0137 ppm
Concentration per Run 2	0.0112 ppm	0.0487 ppm	2.1219 ppm	0.0252 ppm	0.0100 ppm	0.0515 ppm	0.0122 ppm
Concentration per Run 3	0.0114 ppm	0.0487 ppm	2.1600 ppm	0.0257 ppm	0.0106 ppm	0.0504 ppm	0.0139 ppm
Recovery Percentage 1	112.860 %	97.385 %	107.175 %	101.682 %	101.117 %	101.263 %	132.728 %
Concentration RSD	1.1 %	0.0 %	0.9 %	0.9 %	4.7 %	1.4 %	**6.9 %**

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5228 ppm	0.0491 ppm	0.0099 ppm	0.0492 ppm	0.0186 ppm	0.0100 ppm	**0.0039 ppm**
Concentration per Run 1	0.5245 ppm	0.0498 ppm	0.0099 ppm	0.0493 ppm	0.0183 ppm	0.0103 ppm	0.0039 ppm
Concentration per Run 2	0.5219 ppm	0.0488 ppm	0.0099 ppm	0.0493 ppm	0.0188 ppm	0.0100 ppm	0.0039 ppm
Concentration per Run 3	0.5220 ppm	0.0487 ppm	0.0100 ppm	0.0489 ppm	0.0186 ppm	0.0099 ppm	0.0038 ppm
Recovery Percentage 1	104.554 %	98.192 %	99.354 %	98.310 %	92.915 %	100.363 %	78.074 %
Concentration RSD	0.3 %	1.3 %	0.8 %	0.4 %	1.6 %	2.0 %	**1.3 %**

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	102.5567 %	103.9169 %	104.6273 %	91.0293 %	103.9722 %	104.8902 %
Concentration per Run 1	102.5165 %	103.7596 %	104.8231 %	89.5847 %	103.5813 %	104.6501 %
Concentration per Run 2	103.5355 %	103.9821 %	104.5350 %	92.1767 %	104.0056 %	104.6048 %
Concentration per Run 3	101.6180 %	104.0089 %	104.5238 %	91.3264 %	104.3297 %	105.4156 %
Recovery Percentage 1						
Concentration RSD	0.9 %	0.1 %	0.2 %	1.5 %	0.4 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: Blank HJM Trace9
Analysis started at: 6/18/2024 4:45:01 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.5 %	-0.6 %	-13.2 %	-1.9 %	0.2 %	-0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	0.4 %	-1.0 %	-0.1 %	1.3 %	-0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.1 %	-0.3 %	0.1 %	0.4 %	0.4 %	1.2 %	-2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.3 %	0.0 %	0.2 %	-0.9 %	-2.1 %	-0.5 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.1 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICAL
Analysis started at: 6/18/2024 4:48:32 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0027 ppm	25.0684 ppm	0.9966 ppm	1.0017 ppm	1.0019 ppm	1.0022 ppm	10.0396 ppm
Concentration per Run 2	1.0104 ppm	24.8328 ppm	0.9905 ppm	1.0083 ppm	0.9973 ppm	0.9971 ppm	9.9564 ppm
Concentration per Run 3	0.9869 ppm	25.0989 ppm	1.0129 ppm	0.9899 ppm	1.0008 ppm	1.0008 ppm	10.0040 ppm
Concentration RSD	1.2 %	0.6 %	1.2 %	0.9 %	0.2 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0049 ppm	1.0059 ppm	1.0088 ppm	1.0033 ppm	25.0394 ppm	35.1430 ppm	1.0051 ppm
Concentration per Run 2	1.0067 ppm	1.0063 ppm	1.0007 ppm	1.0085 ppm	25.0156 ppm	34.9270 ppm	0.9970 ppm
Concentration per Run 3	0.9884 ppm	0.9878 ppm	0.9904 ppm	0.9882 ppm	24.9450 ppm	34.9299 ppm	0.9980 ppm
Concentration RSD	1.0 %	1.1 %	0.9 %	1.1 %	0.2 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0284 ppm	1.0062 ppm	0.9873 ppm	25.0808 ppm	1.0079 ppm	1.0055 ppm	1.0014 ppm
Concentration per Run 2	10.1375 ppm	0.9963 ppm	1.0051 ppm	24.8212 ppm	1.0004 ppm	0.9887 ppm	1.0059 ppm
Concentration per Run 3	9.8341 ppm	0.9974 ppm	1.0076 ppm	25.0980 ppm	0.9917 ppm	1.0057 ppm	0.9926 ppm
Concentration RSD	1.5 %	0.5 %	1.1 %	0.6 %	0.8 %	1.0 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0021 ppm	10.0038 ppm	1.0096 ppm	1.0017 ppm	1.0057 ppm	0.9991 ppm	1.0064 ppm
Concentration per Run 2	0.9895 ppm	10.0641 ppm	1.0005 ppm	0.9987 ppm	1.0099 ppm	0.9901 ppm	1.0090 ppm
Concentration per Run 3	1.0084 ppm	9.9321 ppm	0.9900 ppm	0.9997 ppm	0.9844 ppm	1.0108 ppm	0.9846 ppm
Concentration RSD	1.0 %	0.7 %	1.0 %	0.2 %	1.4 %	1.0 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	98.8829 %	98.7151 %	94.6284 %	97.1875 %	97.7212 %	97.3415 %
Concentration per Run 1	1.0095 ppm	97.3500 %	98.0924 %	94.5180 %	95.5150 %	97.4185 %	97.0669 %
Concentration per Run 2	1.0009 ppm	98.8531 %	99.0949 %	95.2234 %	97.2695 %	97.8353 %	97.8633 %
Concentration per Run 3	0.9896 ppm	100.4455 %	98.9580 %	94.1437 %	98.7780 %	97.9096 %	97.0944 %
Concentration RSD	1.0 %	1.6 %	0.6 %	0.6 %	1.7 %	0.3 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:52:00 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5050 ppm	0.5041 ppm	0.4813 ppm	0.4976 ppm	0.5035 ppm	0.5176 ppm	0.4934 ppm
Concentration per Run 1	0.5083 ppm	0.5128 ppm	0.4803 ppm	0.5042 ppm	0.5078 ppm	0.5207 ppm	0.4984 ppm
Concentration per Run 2	0.5046 ppm	0.5014 ppm	0.4833 ppm	0.4948 ppm	0.5064 ppm	0.5218 ppm	0.4978 ppm
Concentration per Run 3	0.5021 ppm	0.4982 ppm	0.4804 ppm	0.4937 ppm	0.4963 ppm	0.5103 ppm	0.4840 ppm
Recovery Percentage 1	100.995 %	100.827 %	96.263 %	99.512 %	100.698 %	103.521 %	98.686 %
Concentration RSD	0.6 %	1.5 %	0.4 %	1.2 %	1.3 %	1.2 %	1.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5055 ppm	0.5144 ppm	0.4934 ppm	0.4972 ppm	0.5298 ppm	5.1819 ppm	0.6265 ppm
Concentration per Run 1	0.5075 ppm	0.5179 ppm	0.4993 ppm	0.4987 ppm	0.5395 ppm	5.2406 ppm	0.6317 ppm
Concentration per Run 2	0.5089 ppm	0.5170 ppm	0.4899 ppm	0.5000 ppm	0.5325 ppm	5.1963 ppm	0.6293 ppm
Concentration per Run 3	0.5001 ppm	0.5082 ppm	0.4912 ppm	0.4928 ppm	0.5174 ppm	5.1088 ppm	0.6185 ppm
Recovery Percentage 1	101.104 %	102.873 %	98.688 %	99.431 %	105.965 %	103.638 %	125.303 %
Concentration RSD	0.9 %	1.0 %	1.0 %	0.8 %	2.1 %	1.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4933 ppm	0.4925 ppm	0.5880 ppm	10.1934 ppm	0.5085 ppm	0.5029 ppm	0.5261 ppm
Concentration per Run 1	0.4977 ppm	0.4943 ppm	0.6009 ppm	10.2328 ppm	0.5170 ppm	0.5043 ppm	0.5322 ppm
Concentration per Run 2	0.4935 ppm	0.4976 ppm	0.5862 ppm	10.2511 ppm	0.5023 ppm	0.5008 ppm	0.5251 ppm
Concentration per Run 3	0.4886 ppm	0.4855 ppm	0.5768 ppm	10.0964 ppm	0.5061 ppm	0.5035 ppm	0.5209 ppm
Recovery Percentage 1	98.658 %	98.492 %	117.593 %	101.934 %	101.700 %	100.575 %	105.211 %
Concentration RSD	0.9 %	1.3 %	2.1 %	0.8 %	1.5 %	0.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4950 ppm	5.6538 ppm	0.5154 ppm	0.4937 ppm	0.5045 ppm	0.5112 ppm	0.4916 ppm
Concentration per Run 1	0.4934 ppm	5.7077 ppm	0.5226 ppm	0.4973 ppm	0.5095 ppm	0.5132 ppm	0.4937 ppm
Concentration per Run 2	0.4956 ppm	5.6479 ppm	0.5079 ppm	0.4963 ppm	0.5027 ppm	0.5131 ppm	0.4925 ppm
Concentration per Run 3	0.4960 ppm	5.6057 ppm	0.5155 ppm	0.4875 ppm	0.5013 ppm	0.5075 ppm	0.4885 ppm
Recovery Percentage 1	99.005 %	107.691 %	103.072 %	98.746 %	100.902 %	102.249 %	98.312 %
Concentration RSD	0.3 %	0.9 %	1.4 %	1.1 %	0.9 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5067 ppm	100.0487 %	99.3842 %	97.5448 %	98.9639 %	98.5864 %	98.0238 %
Concentration per Run 1	0.5129 ppm	99.4040 %	98.8107 %	96.5496 %	98.0875 %	98.0827 %	97.1092 %
Concentration per Run 2	0.5012 ppm	100.4590 %	98.8501 %	97.6054 %	99.3247 %	98.0397 %	98.1449 %
Concentration per Run 3	0.5060 ppm	100.2831 %	100.4917 %	98.4794 %	99.4796 %	99.6369 %	98.8174 %
Recovery Percentage 1	101.339 %						
Concentration RSD	1.2 %	0.6 %	1.0 %	1.0 %	0.8 %	0.9 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICB
Analysis started at: 6/18/2024 4:55:28 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0051 ppm	0.0016 ppm	0.0026 ppm	0.0007 ppm	0.0006 ppm	0.0058 ppm
Concentration per Run 1	0.0010 ppm	0.0039 ppm	0.0022 ppm	0.0025 ppm	0.0008 ppm	0.0007 ppm	0.0075 ppm
Concentration per Run 2	0.0007 ppm	0.0042 ppm	0.0019 ppm	0.0031 ppm	0.0007 ppm	0.0006 ppm	0.0044 ppm
Concentration per Run 3	0.0009 ppm	0.0071 ppm	0.0007 ppm	0.0024 ppm	0.0005 ppm	0.0005 ppm	0.0055 ppm
Recovery Percentage 1	12.486 %	5.087 %	32.433 %	8.813 %	6.749 %	15.424 %	5.811 %
Concentration RSD	15.7 %	35.0 %	49.7 %	13.7 %	21.1 %	12.8 %	27.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0006 ppm	0.0007 ppm	0.0015 ppm	0.0033 ppm	-0.0161 ppm	0.0016 ppm
Concentration per Run 1	0.0013 ppm	0.0010 ppm	0.0007 ppm	0.0015 ppm	0.0023 ppm	-0.0093 ppm	0.0019 ppm
Concentration per Run 2	0.0012 ppm	0.0008 ppm	0.0008 ppm	0.0012 ppm	0.0043 ppm	-0.0036 ppm	0.0018 ppm
Concentration per Run 3	0.0011 ppm	0.0000 ppm	0.0006 ppm	0.0017 ppm	0.0034 ppm	-0.0354 ppm	0.0012 ppm
Recovery Percentage 1	24.210 %	3.032 %	7.104 %	14.741 %	6.696 %	-0.644 %	32.327 %
Concentration RSD	5.1 %	87.7 %	9.6 %	17.3 %	31.1 %	105.2 %	24.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0029 ppm	0.0009 ppm	0.0386 ppm	0.0076 ppm	0.0008 ppm	0.0011 ppm	0.0080 ppm
Concentration per Run 1	0.0030 ppm	0.0011 ppm	0.0447 ppm	0.0117 ppm	0.0014 ppm	0.0015 ppm	0.0055 ppm
Concentration per Run 2	0.0063 ppm	0.0009 ppm	0.0384 ppm	0.0036 ppm	0.0010 ppm	0.0017 ppm	0.0129 ppm
Concentration per Run 3	-0.0005 ppm	0.0007 ppm	0.0326 ppm	0.0074 ppm	0.0001 ppm	0.0003 ppm	0.0054 ppm
Recovery Percentage 1	2.932 %	9.036 %	77.123 %	0.379 %	3.289 %	11.486 %	15.917 %
Concentration RSD	116.3 %	20.4 %	15.7 %	53.5 %	79.7 %	67.4 %	53.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	0.0135 ppm	0.0019 ppm	0.0006 ppm	0.0017 ppm	0.0042 ppm	0.0012 ppm
Concentration per Run 1	0.0040 ppm	0.0151 ppm	0.0019 ppm	0.0006 ppm	0.0016 ppm	0.0046 ppm	0.0015 ppm
Concentration per Run 2	-0.0007 ppm	0.0125 ppm	0.0018 ppm	0.0006 ppm	0.0018 ppm	0.0028 ppm	0.0013 ppm
Concentration per Run 3	0.0012 ppm	0.0129 ppm	0.0021 ppm	0.0006 ppm	0.0018 ppm	0.0053 ppm	0.0010 ppm
Recovery Percentage 1	15.017 %	2.700 %	3.856 %	6.281 %	17.248 %	21.132 %	12.305 %
Concentration RSD	159.3 %	10.2 %	8.3 %	1.8 %	6.6 %	31.0 %	19.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	101.3555 %	98.9752 %	99.4739 %	101.4850 %	99.1962 %	99.9315 %
Concentration per Run 1	0.0013 ppm	101.2703 %	96.5335 %	99.4360 %	100.7784 %	97.2228 %	100.1958 %
Concentration per Run 2	0.0009 ppm	101.1993 %	100.5033 %	99.4457 %	101.5142 %	100.8683 %	99.3995 %
Concentration per Run 3	0.0014 ppm	101.5970 %	99.8887 %	99.5399 %	102.1623 %	99.4976 %	100.1993 %
Recovery Percentage 1	24.204 %						
Concentration RSD	24.1 %	0.2 %	2.2 %	0.1 %	0.7 %	1.9 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:58:57 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4998 ppm	0.4880 ppm	0.4768 ppm	0.4940 ppm	0.4973 ppm	0.5128 ppm	0.4843 ppm
Concentration per Run 1	0.5002 ppm	0.4805 ppm	0.4771 ppm	0.5004 ppm	0.4914 ppm	0.5082 ppm	0.4838 ppm
Concentration per Run 2	0.4990 ppm	0.4738 ppm	0.4737 ppm	0.4904 ppm	0.4815 ppm	0.4965 ppm	0.4651 ppm
Concentration per Run 3	0.5003 ppm	0.5096 ppm	0.4795 ppm	0.4914 ppm	0.5189 ppm	0.5336 ppm	0.5041 ppm
Recovery Percentage 1	99.964 %	97.591 %	95.355 %	98.809 %	99.452 %	102.553 %	96.869 %
Concentration RSD	0.1 %	3.9 %	0.6 %	1.1 %	3.9 %	3.7 %	4.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4959 ppm	0.5059 ppm	0.4908 ppm	0.4922 ppm	0.5043 ppm	5.1291 ppm	0.6202 ppm
Concentration per Run 1	0.4947 ppm	0.5001 ppm	0.4945 ppm	0.4902 ppm	0.4964 ppm	5.0791 ppm	0.6168 ppm
Concentration per Run 2	0.4953 ppm	0.5093 ppm	0.4862 ppm	0.4947 ppm	0.4888 ppm	4.9466 ppm	0.5962 ppm
Concentration per Run 3	0.4977 ppm	0.5083 ppm	0.4916 ppm	0.4916 ppm	0.5277 ppm	5.3617 ppm	0.6474 ppm
Recovery Percentage 1	99.185 %	101.180 %	98.152 %	98.438 %	100.859 %	102.583 %	124.034 %
Concentration RSD	0.3 %	1.0 %	0.9 %	0.5 %	4.1 %	4.1 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4855 ppm	0.4908 ppm	0.5065 ppm	10.0593 ppm	0.5069 ppm	0.4967 ppm	0.5110 ppm
Concentration per Run 1	0.4859 ppm	0.4889 ppm	0.5003 ppm	9.9275 ppm	0.5114 ppm	0.4957 ppm	0.5065 ppm
Concentration per Run 2	0.4840 ppm	0.4735 ppm	0.5048 ppm	9.8035 ppm	0.5002 ppm	0.4967 ppm	0.5120 ppm
Concentration per Run 3	0.4868 ppm	0.5099 ppm	0.5144 ppm	10.4470 ppm	0.5092 ppm	0.4976 ppm	0.5145 ppm
Recovery Percentage 1	97.110 %	98.155 %	101.296 %	100.593 %	101.386 %	99.339 %	102.191 %
Concentration RSD	0.3 %	3.7 %	1.4 %	3.4 %	1.2 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4889 ppm	5.5496 ppm	0.5101 ppm	0.4876 ppm	0.4981 ppm	0.5008 ppm	0.4855 ppm
Concentration per Run 1	0.4865 ppm	5.5411 ppm	0.5136 ppm	0.4803 ppm	0.4988 ppm	0.5007 ppm	0.4814 ppm
Concentration per Run 2	0.4900 ppm	5.5339 ppm	0.5048 ppm	0.4736 ppm	0.4962 ppm	0.5023 ppm	0.4883 ppm
Concentration per Run 3	0.4903 ppm	5.5738 ppm	0.5119 ppm	0.5089 ppm	0.4994 ppm	0.4993 ppm	0.4869 ppm
Recovery Percentage 1	97.784 %	105.706 %	102.023 %	97.517 %	99.625 %	100.156 %	97.107 %
Concentration RSD	0.4 %	0.4 %	0.9 %	3.8 %	0.3 %	0.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5044 ppm	100.1809 %	99.7547 %	98.8220 %	98.9445 %	98.6806 %	99.2517 %
Concentration per Run 1	0.5094 ppm	99.1283 %	100.1523 %	98.8235 %	97.8662 %	98.9781 %	99.0704 %
Concentration per Run 2	0.4993 ppm	100.9448 %	102.0497 %	98.6461 %	99.5610 %	100.8254 %	99.3436 %
Concentration per Run 3	0.5045 ppm	100.4694 %	97.0621 %	98.9964 %	99.4063 %	96.2383 %	99.3412 %
Recovery Percentage 1	100.877 %						
Concentration RSD	1.0 %	0.9 %	2.5 %	0.2 %	0.9 %	2.3 %	0.2 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICB
Analysis started at: 6/18/2024 5:02:25 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	0.0080 ppm	-0.0012 ppm	0.0035 ppm	0.0005 ppm	0.0005 ppm	0.0060 ppm
Concentration per Run 1	0.0016 ppm	0.0093 ppm	-0.0011 ppm	0.0040 ppm	0.0006 ppm	0.0006 ppm	0.0073 ppm
Concentration per Run 2	0.0009 ppm	0.0150 ppm	-0.0003 ppm	0.0032 ppm	0.0005 ppm	0.0005 ppm	0.0061 ppm
Concentration per Run 3	0.0008 ppm	-0.0004 ppm	-0.0021 ppm	0.0033 ppm	0.0005 ppm	0.0005 ppm	0.0046 ppm
Recovery Percentage 1	15.834 %	7.969 %	-23.758 %	11.586 %	5.243 %	12.709 %	5.979 %
Concentration RSD	40.1 %	97.8 %	76.9 %	12.0 %	12.2 %	11.6 %	22.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0011 ppm	0.0012 ppm	0.0021 ppm	0.0018 ppm	-0.0049 ppm	0.0014 ppm
Concentration per Run 1	0.0018 ppm	0.0010 ppm	0.0015 ppm	0.0021 ppm	0.0012 ppm	0.0003 ppm	0.0026 ppm
Concentration per Run 2	0.0013 ppm	0.0006 ppm	0.0009 ppm	0.0018 ppm	-0.0001 ppm	-0.0145 ppm	0.0016 ppm
Concentration per Run 3	0.0016 ppm	0.0017 ppm	0.0011 ppm	0.0024 ppm	0.0043 ppm	-0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	31.528 %	5.418 %	11.861 %	21.064 %	3.650 %	-0.196 %	27.083 %
Concentration RSD	16.2 %	52.7 %	27.1 %	15.4 %	123.5 %	169.7 %	106.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0008 ppm	0.0328 ppm	-0.0024 ppm	0.0011 ppm	0.0008 ppm	0.0074 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0377 ppm	0.0005 ppm	0.0008 ppm	0.0012 ppm	0.0056 ppm
Concentration per Run 2	0.0019 ppm	0.0009 ppm	0.0328 ppm	-0.0029 ppm	0.0012 ppm	0.0011 ppm	0.0094 ppm
Concentration per Run 3	0.0012 ppm	0.0006 ppm	0.0279 ppm	-0.0049 ppm	0.0013 ppm	0.0002 ppm	0.0071 ppm
Recovery Percentage 1	1.032 %	7.842 %	65.641 %	-0.121 %	4.469 %	8.136 %	14.758 %
Concentration RSD	87.4 %	22.8 %	14.9 %	112.8 %	24.6 %	70.8 %	25.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0178 ppm	0.0024 ppm	0.0005 ppm	0.0022 ppm	0.0037 ppm	0.0015 ppm
Concentration per Run 1	0.0018 ppm	0.0178 ppm	0.0034 ppm	0.0005 ppm	0.0025 ppm	0.0047 ppm	0.0020 ppm
Concentration per Run 2	0.0007 ppm	0.0184 ppm	0.0019 ppm	0.0004 ppm	0.0021 ppm	0.0036 ppm	0.0012 ppm
Concentration per Run 3	-0.0020 ppm	0.0171 ppm	0.0019 ppm	0.0005 ppm	0.0019 ppm	0.0028 ppm	0.0014 ppm
Recovery Percentage 1	1.624 %	3.554 %	4.773 %	4.655 %	21.567 %	18.393 %	15.182 %
Concentration RSD	1,220.1 %	3.4 %	35.2 %	12.2 %	13.6 %	25.3 %	27.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	100.2369 %	97.4480 %	99.7462 %	100.1979 %	97.6524 %	100.4218 %
Concentration per Run 1	0.0016 ppm	100.3764 %	97.1252 %	100.4631 %	100.3735 %	97.5462 %	100.7945 %
Concentration per Run 2	0.0021 ppm	100.8811 %	97.4367 %	98.5296 %	100.7351 %	97.5835 %	99.3736 %
Concentration per Run 3	0.0015 ppm	99.4531 %	97.7821 %	100.2459 %	99.4851 %	97.8274 %	101.0971 %
Recovery Percentage 1	34.885 %						
Concentration RSD	16.8 %	0.7 %	0.3 %	1.1 %	0.6 %	0.2 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LLOQ
Analysis started at: 6/18/2024 5:05:54 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0067 ppm	0.1049 ppm	0.0058 ppm	0.0309 ppm	0.0104 ppm	0.0050 ppm	0.0946 ppm
Concentration per Run 1	0.0066 ppm	0.1142 ppm	0.0036 ppm	0.0305 ppm	0.0103 ppm	0.0050 ppm	0.0920 ppm
Concentration per Run 2	0.0065 ppm	0.0890 ppm	0.0077 ppm	0.0328 ppm	0.0104 ppm	0.0050 ppm	0.0947 ppm
Concentration per Run 3	0.0071 ppm	0.1114 ppm	0.0062 ppm	0.0295 ppm	0.0105 ppm	0.0050 ppm	0.0970 ppm
Recovery Percentage 1	96.304 %	104.863 %	116.801 %	103.139 %	103.843 %	100.492 %	94.550 %
Concentration RSD	5.1 %	13.2 %	35.9 %	5.4 %	0.7 %	0.4 %	2.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0198 ppm	0.0095 ppm	0.0104 ppm	0.0525 ppm	2.6411 ppm	0.0106 ppm
Concentration per Run 1	0.0040 ppm	0.0195 ppm	0.0095 ppm	0.0108 ppm	0.0528 ppm	2.6507 ppm	0.0105 ppm
Concentration per Run 2	0.0042 ppm	0.0199 ppm	0.0094 ppm	0.0098 ppm	0.0513 ppm	2.6254 ppm	0.0115 ppm
Concentration per Run 3	0.0040 ppm	0.0201 ppm	0.0095 ppm	0.0105 ppm	0.0534 ppm	2.6472 ppm	0.0100 ppm
Recovery Percentage 1	101.606 %	99.153 %	94.716 %	103.671 %	104.959 %	105.645 %	
Concentration RSD	2.9 %	1.7 %	0.5 %	4.6 %	2.0 %	0.5 %	6.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1016 ppm	0.0108 ppm	0.0540 ppm	2.0788 ppm	0.0241 ppm	0.0095 ppm	0.0540 ppm
Concentration per Run 1	0.1032 ppm	0.0110 ppm	0.0544 ppm	2.0869 ppm	0.0240 ppm	0.0091 ppm	0.0539 ppm
Concentration per Run 2	0.1011 ppm	0.0105 ppm	0.0540 ppm	2.0609 ppm	0.0240 ppm	0.0090 ppm	0.0537 ppm
Concentration per Run 3	0.1006 ppm	0.0109 ppm	0.0536 ppm	2.0884 ppm	0.0243 ppm	0.0102 ppm	0.0543 ppm
Recovery Percentage 1	101.629 %	107.848 %	108.016 %	103.938 %	96.404 %	94.503 %	107.989 %
Concentration RSD	1.3 %	2.6 %	0.7 %	0.7 %	0.9 %	6.9 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0095 ppm	0.5204 ppm	0.0519 ppm	0.0100 ppm	0.0489 ppm	0.0205 ppm	0.0099 ppm
Concentration per Run 1	0.0099 ppm	0.5137 ppm	0.0506 ppm	0.0100 ppm	0.0483 ppm	0.0207 ppm	0.0097 ppm
Concentration per Run 2	0.0068 ppm	0.5253 ppm	0.0529 ppm	0.0099 ppm	0.0492 ppm	0.0213 ppm	0.0102 ppm
Concentration per Run 3	0.0118 ppm	0.5223 ppm	0.0521 ppm	0.0100 ppm	0.0492 ppm	0.0196 ppm	0.0098 ppm
Recovery Percentage 1	94.837 %	104.086 %	103.707 %	99.660 %	97.785 %	102.553 %	98.922 %
Concentration RSD	26.3 %	1.2 %	2.2 %	0.4 %	1.0 %	4.3 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	101.9827 %	98.6523 %	99.9310 %	100.8664 %	97.8063 %	99.8717 %
Concentration per Run 1	0.0050 ppm	102.4765 %	99.7549 %	100.7303 %	101.0342 %	99.0735 %	100.1898 %
Concentration per Run 2	0.0053 ppm	101.0023 %	99.1729 %	99.5404 %	99.9587 %	98.3170 %	99.6054 %
Concentration per Run 3	0.0048 ppm	102.4695 %	97.0290 %	99.5223 %	101.6063 %	96.0283 %	99.8199 %
Recovery Percentage 1	100.629 %						
Concentration RSD	4.9 %	0.8 %	1.5 %	0.7 %	0.8 %	1.6 %	0.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: ICSA
Analysis started at: 6/18/2024 5:09:24 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	536.4773 ppm	-0.0092 ppm	-0.0075 ppm	0.0022 ppm	0.0001 ppm	490.1967 ppm
Concentration per Run 1	0.0002 ppm	535.6321 ppm	-0.0117 ppm	-0.0108 ppm	0.0020 ppm	0.0001 ppm	489.3891 ppm
Concentration per Run 2	-0.0002 ppm	537.1479 ppm	-0.0074 ppm	-0.0058 ppm	0.0022 ppm	0.0000 ppm	491.5897 ppm
Concentration per Run 3	0.0002 ppm	536.6518 ppm	-0.0086 ppm	-0.0060 ppm	0.0023 ppm	0.0001 ppm	489.6113 ppm
Recovery Percentage 1	1.189 %		-184.896 %	-25.090 %	21.733 %	1.769 %	
Concentration RSD	288.1 %	0.1 %	24.0 %	37.6 %	5.9 %	39.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0070 ppm	-0.0012 ppm	0.0028 ppm	0.0028 ppm	194.0806 ppm	-0.0415 ppm	-0.0037 ppm
Concentration per Run 1	-0.0073 ppm	-0.0012 ppm	0.0028 ppm	0.0024 ppm	193.9492 ppm	-0.0336 ppm	-0.0030 ppm
Concentration per Run 2	-0.0070 ppm	-0.0011 ppm	0.0028 ppm	0.0030 ppm	194.6306 ppm	-0.0344 ppm	-0.0036 ppm
Concentration per Run 3	-0.0067 ppm	-0.0014 ppm	0.0027 ppm	0.0031 ppm	193.6620 ppm	-0.0565 ppm	-0.0045 ppm
Recovery Percentage 1	-140.090 %	-6.132 %	27.916 %	28.304 %		-1.660 %	-73.767 %
Concentration RSD	3.9 %	11.7 %	1.4 %	13.7 %	0.3 %	31.3 %	21.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	484.2620 ppm	-0.0002 ppm	0.0000 ppm	0.0042 ppm	-0.0004 ppm	0.0055 ppm	-0.0088 ppm
Concentration per Run 1	479.0451 ppm	-0.0003 ppm	0.0008 ppm	0.0028 ppm	-0.0010 ppm	0.0061 ppm	-0.0057 ppm
Concentration per Run 2	484.8782 ppm	-0.0001 ppm	0.0002 ppm	0.0067 ppm	0.0003 ppm	0.0054 ppm	-0.0123 ppm
Concentration per Run 3	488.8626 ppm	0.0000 ppm	-0.0009 ppm	0.0032 ppm	-0.0005 ppm	0.0051 ppm	-0.0084 ppm
Recovery Percentage 1		-1.571 %	0.073 %	0.211 %	-1.594 %	55.334 %	-17.603 %
Concentration RSD	1.0 %	112.0 %	2,282.4 %	49.9 %	166.0 %	8.7 %	37.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0116 ppm	0.0210 ppm	-0.0011 ppm	0.0002 ppm	0.0026 ppm	0.0030 ppm	0.0015 ppm
Concentration per Run 1	-0.0088 ppm	0.0220 ppm	-0.0018 ppm	0.0002 ppm	0.0026 ppm	0.0036 ppm	0.0013 ppm
Concentration per Run 2	-0.0162 ppm	0.0209 ppm	-0.0014 ppm	0.0002 ppm	0.0024 ppm	0.0043 ppm	0.0019 ppm
Concentration per Run 3	-0.0100 ppm	0.0201 ppm	-0.0002 ppm	0.0001 ppm	0.0029 ppm	0.0011 ppm	0.0012 ppm
Recovery Percentage 1	-116.399 %	4.196 %	-2.259 %	1.967 %	26.447 %	14.990 %	14.656 %
Concentration RSD	34.0 %	4.6 %	72.0 %	30.5 %	8.6 %	55.6 %	24.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	85.8091 %	91.7244 %	72.3670 %	83.7918 %	91.5162 %	84.2682 %
Concentration per Run 1	-0.0008 ppm	86.5529 %	92.5048 %	71.9840 %	84.2346 %	92.2859 %	83.8012 %
Concentration per Run 2	-0.0001 ppm	85.7825 %	90.9151 %	72.2019 %	83.6816 %	90.7786 %	84.1383 %
Concentration per Run 3	0.0003 ppm	85.0919 %	91.7533 %	72.9150 %	83.4592 %	91.4840 %	84.8652 %
Recovery Percentage 1	-4.171 %						
Concentration RSD	255.0 %	0.9 %	0.9 %	0.7 %	0.5 %	0.8 %	0.6 %

LabBook: WG1935555_06182024T9.imexp

Sample:	xSIC Multi
Analysis started at:	6/18/2024 5:12:54 AM
Rack	0
Vial	7
Comment	LDR +/-10%

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LDR Check
Analysis started at: 6/18/2024 5:16:24 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.1332 ppm	23.8448 ppm	19.6702 ppm	20.2307 ppm	5.1706 ppm	0.0244 ppm
Concentration per Run 1	0.0006 ppm	0.1406 ppm	23.7885 ppm	19.8923 ppm	20.1536 ppm	5.1449 ppm	0.0247 ppm
Concentration per Run 2	0.0004 ppm	0.1283 ppm	23.9342 ppm	19.6377 ppm	20.2921 ppm	5.1719 ppm	0.0240 ppm
Concentration per Run 3	0.0006 ppm	0.1308 ppm	23.8119 ppm	19.4806 ppm	20.2465 ppm	5.1951 ppm	0.0245 ppm
Recovery Percentage 1			119.224 %	98.351 %	101.154 %		
Concentration RSD	24.1 %	4.9 %	0.3 %	1.1 %	0.3 %	0.5 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.1014 ppm	5.1164 ppm	0.0073 ppm	19.1541 ppm	0.0409 ppm	538.1841 ppm	19.3313 ppm
Concentration per Run 1	5.1281 ppm	5.1578 ppm	0.0124 ppm	19.4209 ppm	0.0412 ppm	534.4012 ppm	19.2923 ppm
Concentration per Run 2	5.0822 ppm	5.1136 ppm	0.0053 ppm	19.0603 ppm	0.0408 ppm	541.1467 ppm	19.3518 ppm
Concentration per Run 3	5.0937 ppm	5.0777 ppm	0.0043 ppm	18.9810 ppm	0.0409 ppm	539.0044 ppm	19.3497 ppm
Recovery Percentage 1	102.027 %	102.327 %		95.770 %		107.637 %	
Concentration RSD	0.5 %	0.8 %	60.1 %	1.2 %	0.5 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0009 ppm	5.1758 ppm	444.2333 ppm	9.9956 ppm	53.8288 ppm	5.0808 ppm
Concentration per Run 1	-0.0003 ppm	0.0008 ppm	5.1062 ppm	442.2817 ppm	10.1295 ppm	53.7791 ppm	5.0974 ppm
Concentration per Run 2	0.0004 ppm	0.0009 ppm	5.1688 ppm	443.1005 ppm	9.9761 ppm	54.0121 ppm	5.0629 ppm
Concentration per Run 3	-0.0018 ppm	0.0009 ppm	5.2526 ppm	447.3176 ppm	9.8812 ppm	53.6953 ppm	5.0823 ppm
Recovery Percentage 1		0.000 %	103.517 %	88.847 %	99.956 %	107.658 %	101.617 %
Concentration RSD	196.6 %	7.0 %	1.4 %	0.6 %	1.3 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.4453 ppm	21.7743 ppm	7.8235 ppm	5.0134 ppm	0.0408 ppm	4.8952 ppm	0.0035 ppm
Concentration per Run 1	5.4086 ppm	21.7581 ppm	7.9198 ppm	4.9897 ppm	0.0523 ppm	4.8816 ppm	0.0078 ppm
Concentration per Run 2	5.4842 ppm	21.8905 ppm	7.7846 ppm	5.0302 ppm	0.0384 ppm	4.9238 ppm	0.0019 ppm
Concentration per Run 3	5.4430 ppm	21.6743 ppm	7.7661 ppm	5.0204 ppm	0.0318 ppm	4.8803 ppm	0.0010 ppm
Recovery Percentage 1	108.906 %	108.871 %	78.235 %	100.269 %	0.000 %	97.905 %	0.000 %
Concentration RSD	0.7 %	0.5 %	1.1 %	0.4 %	25.6 %	0.5 %	104.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.3277 ppm	90.4566 %	95.4264 %	79.5724 %	88.9629 %	94.3015 %	86.4575 %
Concentration per Run 1	20.5524 ppm	88.8379 %	95.7417 %	80.3509 %	87.4047 %	94.5650 %	87.0918 %
Concentration per Run 2	20.2591 ppm	91.2921 %	95.1234 %	78.5538 %	89.7228 %	93.7863 %	85.3923 %
Concentration per Run 3	20.1716 ppm	91.2398 %	95.4142 %	79.8126 %	89.7611 %	94.5531 %	86.8886 %
Recovery Percentage 1	101.638 %						
Concentration RSD	1.0 %	1.5 %	0.3 %	1.2 %	1.5 %	0.5 %	1.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: SIC Multi
Analysis started at: 6/18/2024 5:53:19 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0640 ppm	0.0010 ppm	0.0056 ppm	0.0002 ppm	-0.0003 ppm	0.0331 ppm
Concentration per Run 1	-0.0003 ppm	0.0721 ppm	0.0015 ppm	0.0038 ppm	0.0002 ppm	-0.0005 ppm	0.0334 ppm
Concentration per Run 2	-0.0004 ppm	0.0622 ppm	0.0027 ppm	0.0072 ppm	0.0002 ppm	-0.0003 ppm	0.0363 ppm
Concentration per Run 3	-0.0002 ppm	0.0577 ppm	-0.0013 ppm	0.0058 ppm	0.0000 ppm	-0.0001 ppm	0.0295 ppm
Recovery Percentage 1	-4.224 %	64.006 %	19.298 %	18.683 %	1.686 %	-7.349 %	33.068 %
Concentration RSD	44.6 %	11.5 %	211.8 %	30.1 %	70.3 %	71.5 %	10.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0047 ppm	20.1568 ppm	-0.0025 ppm	0.0182 ppm	-0.0005 ppm	0.0011 ppm
Concentration per Run 1	-0.0002 ppm	-0.0046 ppm	19.9930 ppm	-0.0026 ppm	0.0180 ppm	-0.0343 ppm	0.0019 ppm
Concentration per Run 2	-0.0003 ppm	-0.0040 ppm	20.3622 ppm	-0.0025 ppm	0.0177 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0054 ppm	20.1151 ppm	-0.0023 ppm	0.0190 ppm	0.0314 ppm	0.0014 ppm
Recovery Percentage 1	-4.774 %	-23.375 %	201,567.877 %	-24.897 %	36.448 %	-0.020 %	21.300 %
Concentration RSD	32.0 %	14.6 %	0.9 %	6.7 %	3.7 %	6,501.1 %	100.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0378 ppm	20.1168 ppm	-0.0038 ppm	-0.0019 ppm	0.0001 ppm	-0.0013 ppm	-0.0113 ppm
Concentration per Run 1	0.0365 ppm	20.1134 ppm	-0.0033 ppm	0.0012 ppm	0.0004 ppm	-0.0022 ppm	-0.0118 ppm
Concentration per Run 2	0.0377 ppm	20.1201 ppm	-0.0038 ppm	-0.0060 ppm	-0.0003 ppm	-0.0005 ppm	-0.0118 ppm
Concentration per Run 3	0.0392 ppm	20.1167 ppm	-0.0041 ppm	-0.0010 ppm	0.0002 ppm	-0.0012 ppm	-0.0105 ppm
Recovery Percentage 1	37.772 %	201,167.544 %	-7.513 %	-0.097 %	0.448 %	-12.733 %	-22.681 %
Concentration RSD	3.5 %	0.0 %	10.8 %	191.6 %	353.6 %	67.0 %	6.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0107 ppm	0.4684 ppm	0.0017 ppm	0.0005 ppm	19.7503 ppm	0.0044 ppm	10.1223 ppm
Concentration per Run 1	-0.0091 ppm	0.4653 ppm	0.0010 ppm	0.0005 ppm	19.5679 ppm	0.0052 ppm	9.9962 ppm
Concentration per Run 2	-0.0114 ppm	0.4777 ppm	0.0023 ppm	0.0005 ppm	19.9767 ppm	0.0062 ppm	10.2199 ppm
Concentration per Run 3	-0.0118 ppm	0.4623 ppm	0.0017 ppm	0.0005 ppm	19.7061 ppm	0.0018 ppm	10.1507 ppm
Recovery Percentage 1	-107.487 %	93.688 %	3.315 %	5.090 %	197,502.574 %	21.923 %	101,222.701 %
Concentration RSD	13.3 %	1.7 %	40.8 %	5.0 %	1.1 %	52.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	100.7503 %	100.7373 %	106.7790 %	100.2876 %	99.4071 %	99.2843 %
Concentration per Run 1	-0.0003 ppm	102.5868 %	100.7064 %	106.7185 %	102.0463 %	99.6788 %	98.9717 %
Concentration per Run 2	-0.0008 ppm	99.5473 %	100.0657 %	106.3797 %	98.9579 %	98.5997 %	97.9420 %
Concentration per Run 3	0.0000 ppm	100.1167 %	101.4398 %	107.2386 %	99.8588 %	99.9428 %	100.9392 %
Recovery Percentage 1	-8.009 %						
Concentration RSD	97.9 %	1.6 %	0.7 %	0.4 %	1.6 %	0.7 %	1.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LLOQ 0.005
Analysis started at: 6/18/2024 5:57:03 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.0288 ppm	**0.0031 ppm**	0.0074 ppm	0.0054 ppm	0.0053 ppm	0.0090 ppm
Concentration per Run 1	0.0055 ppm	0.0338 ppm	0.0027 ppm	0.0083 ppm	0.0054 ppm	0.0053 ppm	0.0033 ppm
Concentration per Run 2	0.0056 ppm	0.0264 ppm	0.0039 ppm	0.0075 ppm	0.0056 ppm	0.0054 ppm	0.0101 ppm
Concentration per Run 3	0.0054 ppm	0.0264 ppm	0.0028 ppm	0.0063 ppm	0.0054 ppm	0.0053 ppm	0.0138 ppm
Recovery Percentage 1	110.372 %	0.000 %	62.893 %	0.000 %	0.000 %	106.121 %	0.000 %
Concentration RSD	1.5 %	14.9 %	**21.1 %**	13.7 %	2.3 %	1.1 %	58.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0055 ppm	0.0053 ppm	0.0053 ppm	0.0052 ppm	0.0092 ppm	0.0409 ppm	0.0065 ppm
Concentration per Run 1	0.0055 ppm	0.0050 ppm	0.0054 ppm	0.0053 ppm	0.0106 ppm	0.0395 ppm	0.0065 ppm
Concentration per Run 2	0.0057 ppm	0.0058 ppm	0.0054 ppm	0.0052 ppm	0.0093 ppm	0.0396 ppm	0.0062 ppm
Concentration per Run 3	0.0053 ppm	0.0052 ppm	0.0052 ppm	0.0051 ppm	0.0077 ppm	0.0436 ppm	0.0068 ppm
Recovery Percentage 1	110.210 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	
Concentration RSD	3.5 %	6.8 %	2.5 %	2.2 %	16.0 %	5.7 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0030 ppm	0.0054 ppm	0.0023 ppm	0.0969 ppm	0.0053 ppm	0.0045 ppm	0.0044 ppm
Concentration per Run 1	0.0046 ppm	0.0056 ppm	0.0023 ppm	0.0970 ppm	0.0054 ppm	0.0047 ppm	0.0025 ppm
Concentration per Run 2	0.0009 ppm	0.0054 ppm	0.0022 ppm	0.0910 ppm	0.0043 ppm	0.0039 ppm	0.0070 ppm
Concentration per Run 3	0.0034 ppm	0.0053 ppm	0.0024 ppm	0.1029 ppm	0.0061 ppm	0.0049 ppm	0.0036 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	63.0 %	2.5 %	3.9 %	6.2 %	17.4 %	11.3 %	53.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0056 ppm	0.0690 ppm	0.0041 ppm	0.0053 ppm	0.0087 ppm	0.0053 ppm	0.0050 ppm
Concentration per Run 1	0.0041 ppm	0.0694 ppm	0.0038 ppm	0.0054 ppm	0.0089 ppm	0.0069 ppm	0.0056 ppm
Concentration per Run 2	0.0060 ppm	0.0684 ppm	0.0044 ppm	0.0052 ppm	0.0084 ppm	0.0043 ppm	0.0050 ppm
Concentration per Run 3	0.0066 ppm	0.0692 ppm	0.0041 ppm	0.0053 ppm	0.0087 ppm	0.0047 ppm	0.0045 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	24.0 %	0.8 %	7.8 %	1.2 %	3.2 %	26.6 %	10.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0058 ppm	102.2367 %	99.9299 %	101.0159 %	103.6552 %	99.7950 %	102.2692 %
Concentration per Run 1	0.0058 ppm	102.2973 %	100.8503 %	101.0960 %	103.8205 %	100.7385 %	101.9813 %
Concentration per Run 2	0.0056 ppm	102.8015 %	99.2657 %	100.9340 %	104.1589 %	99.1048 %	102.5403 %
Concentration per Run 3	0.0059 ppm	101.6113 %	99.6738 %	101.0177 %	102.9861 %	99.5416 %	102.2859 %
Recovery Percentage 1	115.433 %						
Concentration RSD	2.8 %	0.6 %	0.8 %	0.1 %	0.6 %	0.8 %	0.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LDR 20 As
Analysis started at: 6/18/2024 6:00:31 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0138 ppm	19.6291 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	0.0004 ppm	0.0189 ppm	19.7711 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 2	0.0003 ppm	0.0073 ppm	19.5175 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 3	0.0003 ppm	0.0150 ppm	19.5988 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	23.9 %	42.9 %	0.7 %	172.6 %	42.2 %	50.8 %	76.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0007 ppm	-0.0004 ppm	0.0000 ppm	0.0042 ppm	-0.0050 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	0.0060 ppm	-0.0127 ppm	0.0007 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	-0.0008 ppm	-0.0001 ppm	0.0036 ppm	-0.0196 ppm	0.0007 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0031 ppm	0.0172 ppm	-0.0010 ppm
Concentration RSD	42.4 %	44.5 %	78.5 %	373.5 %	36.3 %	391.1 %	799.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0003 ppm	-0.0031 ppm	-0.0025 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	-0.0025 ppm	0.0002 ppm	-0.0031 ppm	-0.0051 ppm	-0.0006 ppm	0.0003 ppm	-0.0050 ppm
Concentration per Run 2	0.0008 ppm	0.0002 ppm	-0.0029 ppm	-0.0056 ppm	0.0008 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	-0.0031 ppm	0.0003 ppm	-0.0032 ppm	0.0033 ppm	-0.0004 ppm	0.0005 ppm	0.0028 ppm
Concentration RSD	132.0 %	20.1 %	5.8 %	201.9 %	1,042.6 %	1,230.5 %	675.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0081 ppm	-0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0066 ppm	-0.0007 ppm	0.0000 ppm	0.0011 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0047 ppm	0.0089 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	0.0087 ppm	-0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	306.1 %	15.7 %	39.9 %	124.5 %	31.0 %	116.2 %	256.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	104.0656 %	100.3373 %	102.9504 %	104.9823 %	99.1695 %	103.3563 %
Concentration per Run 1	0.0004 ppm	104.9710 %	99.6817 %	102.9481 %	106.1184 %	98.9510 %	103.6239 %
Concentration per Run 2	0.0005 ppm	103.7209 %	101.2552 %	102.4350 %	104.6183 %	99.0968 %	102.7982 %
Concentration per Run 3	0.0004 ppm	103.5049 %	100.0751 %	103.4682 %	104.2101 %	99.4607 %	103.6469 %
Concentration RSD	12.3 %	0.8 %	0.8 %	0.5 %	1.0 %	0.3 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LDR 400 Na
Analysis started at: 6/18/2024 6:03:59 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0167 ppm	0.0030 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	0.0005 ppm	0.0211 ppm	0.0023 ppm	0.0024 ppm	0.0002 ppm	0.0001 ppm	0.0066 ppm
Concentration per Run 2	-0.0001 ppm	0.0050 ppm	0.0025 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 3	0.0007 ppm	0.0240 ppm	0.0041 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0081 ppm
Concentration RSD	105.7 %	61.2 %	32.9 %	69.3 %	24.8 %	72.4 %	23.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0045 ppm	0.0740 ppm	0.0018 ppm
Concentration per Run 1	0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0007 ppm	0.0040 ppm	0.0796 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0003 ppm	0.0002 ppm	0.0040 ppm	0.0593 ppm	0.0018 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0054 ppm	0.0832 ppm	0.0020 ppm
Concentration RSD	90.3 %	138.7 %	178.1 %	53.6 %	18.1 %	17.4 %	10.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	-0.0026 ppm	384.7160 ppm	0.0005 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 1	-0.0017 ppm	0.0001 ppm	-0.0024 ppm	383.3022 ppm	0.0005 ppm	0.0001 ppm	-0.0043 ppm
Concentration per Run 2	-0.0009 ppm	0.0003 ppm	-0.0024 ppm	384.3862 ppm	0.0009 ppm	-0.0014 ppm	0.0050 ppm
Concentration per Run 3	0.0014 ppm	0.0005 ppm	-0.0030 ppm	386.4597 ppm	0.0001 ppm	-0.0010 ppm	-0.0023 ppm
Concentration RSD	371.9 %	73.0 %	13.8 %	0.4 %	85.1 %	96.2 %	931.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0100 ppm	-0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	0.0000 ppm
Concentration per Run 1	-0.0036 ppm	0.0105 ppm	-0.0026 ppm	0.0002 ppm	0.0001 ppm	0.0038 ppm	-0.0001 ppm
Concentration per Run 2	0.0025 ppm	0.0092 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 3	-0.0027 ppm	0.0104 ppm	-0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0003 ppm
Concentration RSD	260.2 %	7.3 %	51.9 %	48.2 %	3,162.8 %	71.7 %	896.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	97.5377 %	99.4549 %	88.3825 %	97.2605 %	98.6183 %	96.2947 %
Concentration per Run 1	0.0007 ppm	99.5348 %	98.6470 %	89.1364 %	99.5373 %	97.9903 %	97.1227 %
Concentration per Run 2	0.0009 ppm	96.6742 %	99.6860 %	89.2305 %	96.3689 %	98.7707 %	97.3977 %
Concentration per Run 3	0.0008 ppm	96.4042 %	100.0317 %	86.7806 %	95.8752 %	99.0939 %	94.3636 %
Concentration RSD	14.9 %	1.8 %	0.7 %	1.6 %	2.0 %	0.6 %	1.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LDR 1000 Ca
Analysis started at: 6/18/2024 6:07:27 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0370 ppm	-0.0048 ppm	0.0012 ppm	0.0026 ppm	0.0000 ppm	957.2033 ppm
Concentration per Run 1	-0.0010 ppm	0.0444 ppm	-0.0047 ppm	0.0025 ppm	0.0024 ppm	0.0000 ppm	951.0642 ppm
Concentration per Run 2	-0.0007 ppm	0.0341 ppm	-0.0059 ppm	0.0013 ppm	0.0026 ppm	0.0000 ppm	925.9214 ppm
Concentration per Run 3	-0.0003 ppm	0.0324 ppm	-0.0037 ppm	-0.0003 ppm	0.0030 ppm	0.0000 ppm	994.6243 ppm
Concentration RSD	53.8 %	17.6 %	23.3 %	118.5 %	10.3 %	423.3 %	3.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0008 ppm	0.0075 ppm	0.0095 ppm	-0.0103 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0089 ppm	0.0265 ppm	-0.0097 ppm
Concentration per Run 2	0.0004 ppm	-0.0003 ppm	0.0007 ppm	0.0007 ppm	0.0075 ppm	-0.0040 ppm	-0.0111 ppm
Concentration per Run 3	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0062 ppm	0.0060 ppm	-0.0102 ppm
Concentration RSD	10.7 %	19.2 %	76.1 %	15.9 %	18.0 %	163.3 %	6.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0061 ppm	0.0007 ppm	-0.0031 ppm	0.0251 ppm	0.0001 ppm	0.0012 ppm	-0.0009 ppm
Concentration per Run 1	-0.0077 ppm	0.0006 ppm	-0.0032 ppm	0.0212 ppm	0.0002 ppm	0.0004 ppm	-0.0036 ppm
Concentration per Run 2	-0.0058 ppm	0.0008 ppm	-0.0027 ppm	0.0272 ppm	-0.0006 ppm	0.0020 ppm	0.0020 ppm
Concentration per Run 3	-0.0049 ppm	0.0007 ppm	-0.0035 ppm	0.0270 ppm	0.0008 ppm	0.0013 ppm	-0.0010 ppm
Concentration RSD	23.5 %	15.2 %	13.0 %	13.4 %	555.5 %	66.2 %	326.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0134 ppm	0.0181 ppm	-0.0010 ppm	0.0000 ppm	0.0050 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 1	-0.0111 ppm	0.0190 ppm	-0.0011 ppm	-0.0001 ppm	0.0051 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0169 ppm	0.0161 ppm	-0.0012 ppm	0.0001 ppm	0.0049 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 3	-0.0122 ppm	0.0192 ppm	-0.0006 ppm	-0.0001 ppm	0.0051 ppm	0.0038 ppm	0.0000 ppm
Concentration RSD	23.2 %	9.8 %	31.6 %	231.8 %	1.8 %	59.3 %	34.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	91.2223 %	95.4736 %	79.1725 %	91.3014 %	94.5654 %	89.7064 %
Concentration per Run 1	0.0018 ppm	90.7082 %	95.5308 %	78.9030 %	90.8460 %	94.9347 %	89.5367 %
Concentration per Run 2	0.0017 ppm	92.3972 %	98.3944 %	79.5268 %	92.4711 %	97.6451 %	90.2553 %
Concentration per Run 3	0.0021 ppm	90.5616 %	92.4956 %	79.0876 %	90.5870 %	91.1164 %	89.3271 %
Concentration RSD	11.7 %	1.1 %	3.1 %	0.4 %	1.1 %	3.5 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LDR 500 Fe
Analysis started at: 6/18/2024 6:10:56 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0129 ppm	0.0227 ppm	0.0027 ppm	0.0028 ppm	0.0005 ppm	0.0000 ppm	0.0135 ppm
Concentration per Run 1	0.0129 ppm	0.0218 ppm	0.0054 ppm	0.0034 ppm	0.0006 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 2	0.0129 ppm	0.0207 ppm	0.0010 ppm	0.0042 ppm	0.0005 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	0.0129 ppm	0.0256 ppm	0.0016 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0101 ppm
Concentration RSD	0.1 %	11.3 %	90.2 %	61.3 %	11.4 %	57.5 %	21.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0145 ppm	-0.0034 ppm	0.0057 ppm	0.0233 ppm	462.3252 ppm	-0.0575 ppm	0.0007 ppm
Concentration per Run 1	-0.0144 ppm	-0.0035 ppm	0.0053 ppm	0.0232 ppm	461.6142 ppm	-0.0691 ppm	-0.0011 ppm
Concentration per Run 2	-0.0142 ppm	-0.0031 ppm	0.0057 ppm	0.0229 ppm	459.9529 ppm	-0.0306 ppm	0.0014 ppm
Concentration per Run 3	-0.0148 ppm	-0.0036 ppm	0.0060 ppm	0.0239 ppm	465.4085 ppm	-0.0726 ppm	0.0019 ppm
Concentration RSD	2.1 %	7.9 %	6.0 %	2.3 %	0.6 %	40.6 %	221.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0354 ppm	-0.0022 ppm	-0.0060 ppm	0.0029 ppm	-0.0018 ppm	-0.0102 ppm	-0.0062 ppm
Concentration per Run 1	0.0338 ppm	-0.0022 ppm	-0.0063 ppm	0.0037 ppm	-0.0020 ppm	-0.0103 ppm	-0.0007 ppm
Concentration per Run 2	0.0347 ppm	-0.0022 ppm	-0.0062 ppm	0.0034 ppm	-0.0030 ppm	-0.0097 ppm	-0.0093 ppm
Concentration per Run 3	0.0376 ppm	-0.0023 ppm	-0.0055 ppm	0.0014 ppm	-0.0003 ppm	-0.0106 ppm	-0.0086 ppm
Concentration RSD	5.6 %	1.4 %	7.3 %	43.2 %	76.6 %	4.3 %	76.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0069 ppm	0.0081 ppm	-0.0004 ppm	0.0005 ppm	-0.0003 ppm	0.0024 ppm	0.0022 ppm
Concentration per Run 1	-0.0117 ppm	0.0087 ppm	-0.0013 ppm	0.0004 ppm	-0.0003 ppm	0.0020 ppm	0.0024 ppm
Concentration per Run 2	-0.0019 ppm	0.0072 ppm	-0.0010 ppm	0.0006 ppm	-0.0004 ppm	0.0018 ppm	0.0025 ppm
Concentration per Run 3	-0.0070 ppm	0.0084 ppm	0.0010 ppm	0.0004 ppm	-0.0001 ppm	0.0033 ppm	0.0017 ppm
Concentration RSD	71.6 %	10.1 %	282.4 %	25.2 %	58.4 %	34.4 %	20.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	101.3576 %	100.5348 %	92.6863 %	100.9039 %	99.8812 %	101.6187 %
Concentration per Run 1	-0.0005 ppm	100.7123 %	100.4994 %	92.6563 %	100.1750 %	100.0810 %	101.8114 %
Concentration per Run 2	-0.0005 ppm	102.6841 %	101.4014 %	92.3962 %	102.1753 %	100.7534 %	101.0249 %
Concentration per Run 3	-0.0005 ppm	100.6764 %	99.7036 %	93.0065 %	100.3613 %	98.8092 %	102.0199 %
Concentration RSD	5.1 %	1.1 %	0.8 %	0.3 %	1.1 %	1.0 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: LLOQ 0.01
Analysis started at: 6/18/2024 6:31:13 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0106 ppm	0.0478 ppm	0.0103 ppm	0.0119 ppm	0.0105 ppm	0.0105 ppm	0.0124 ppm
Concentration per Run 1	0.0107 ppm	0.0485 ppm	0.0094 ppm	0.0126 ppm	0.0105 ppm	0.0104 ppm	0.0125 ppm
Concentration per Run 2	0.0104 ppm	0.0452 ppm	0.0104 ppm	0.0110 ppm	0.0106 ppm	0.0104 ppm	0.0151 ppm
Concentration per Run 3	0.0107 ppm	0.0496 ppm	0.0112 ppm	0.0122 ppm	0.0103 ppm	0.0106 ppm	0.0097 ppm
Recovery Percentage 1	0.000 %	0.000 %	103.441 %	119.308 %	104.598 %	0.000 %	0.000 %
Concentration RSD	1.3 %	4.8 %	9.1 %	7.3 %	1.0 %	0.6 %	21.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0104 ppm	0.0102 ppm	0.0093 ppm	0.0100 ppm	0.0144 ppm	0.0932 ppm	0.0144 ppm
Concentration per Run 1	0.0104 ppm	0.0103 ppm	0.0093 ppm	0.0101 ppm	0.0138 ppm	0.0911 ppm	0.0143 ppm
Concentration per Run 2	0.0104 ppm	0.0102 ppm	0.0094 ppm	0.0098 ppm	0.0141 ppm	0.1124 ppm	0.0136 ppm
Concentration per Run 3	0.0103 ppm	0.0102 ppm	0.0093 ppm	0.0100 ppm	0.0153 ppm	0.0761 ppm	0.0154 ppm
Recovery Percentage 1	0.000 %	102.288 %	93.297 %	99.733 %	0.000 %	0.000 %	
Concentration RSD	0.8 %	0.7 %	1.1 %	1.5 %	5.5 %	19.6 %	6.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0102 ppm	0.0102 ppm	0.0081 ppm	0.2017 ppm	0.0104 ppm	0.0098 ppm	0.0090 ppm
Concentration per Run 1	0.0108 ppm	0.0102 ppm	0.0077 ppm	0.2033 ppm	0.0103 ppm	0.0098 ppm	0.0082 ppm
Concentration per Run 2	0.0113 ppm	0.0101 ppm	0.0085 ppm	0.2021 ppm	0.0102 ppm	0.0098 ppm	0.0095 ppm
Concentration per Run 3	0.0085 ppm	0.0103 ppm	0.0082 ppm	0.1998 ppm	0.0108 ppm	0.0097 ppm	0.0092 ppm
Recovery Percentage 1	0.000 %	101.868 %	0.000 %	0.000 %	104.410 %	97.847 %	0.000 %
Concentration RSD	14.5 %	1.1 %	4.9 %	0.9 %	3.3 %	0.8 %	7.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0101 ppm	0.1224 ppm	0.0100 ppm	0.0103 ppm	0.0097 ppm	0.0109 ppm	0.0098 ppm
Concentration per Run 1	0.0117 ppm	0.1215 ppm	0.0108 ppm	0.0103 ppm	0.0096 ppm	0.0109 ppm	0.0098 ppm
Concentration per Run 2	0.0093 ppm	0.1218 ppm	0.0096 ppm	0.0103 ppm	0.0096 ppm	0.0109 ppm	0.0098 ppm
Concentration per Run 3	0.0094 ppm	0.1239 ppm	0.0097 ppm	0.0103 ppm	0.0100 ppm	0.0109 ppm	0.0097 ppm
Recovery Percentage 1	101.475 %	0.000 %	100.405 %	103.063 %	97.314 %	109.169 %	97.653 %
Concentration RSD	13.5 %	1.1 %	6.6 %	0.1 %	2.1 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0106 ppm	101.8309 %	99.3924 %	100.6841 %	101.7410 %	98.7848 %	100.7112 %
Concentration per Run 1	0.0104 ppm	101.9070 %	99.0395 %	100.7671 %	101.8151 %	98.4299 %	100.7722 %
Concentration per Run 2	0.0107 ppm	101.7358 %	100.2207 %	100.1586 %	101.7012 %	99.4610 %	100.1503 %
Concentration per Run 3	0.0107 ppm	101.8500 %	98.9169 %	101.1266 %	101.7067 %	98.4635 %	101.2109 %
Recovery Percentage 1	106.080 %						
Concentration RSD	1.4 %	0.1 %	0.7 %	0.5 %	0.1 %	0.6 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:38:02 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5046 ppm	0.5228 ppm	0.4870 ppm	0.4936 ppm	0.5134 ppm	0.5214 ppm	0.4992 ppm
Concentration per Run 1	0.5028 ppm	0.5298 ppm	0.4872 ppm	0.4919 ppm	0.5116 ppm	0.5188 ppm	0.5010 ppm
Concentration per Run 2	0.5041 ppm	0.5232 ppm	0.4890 ppm	0.4948 ppm	0.5153 ppm	0.5221 ppm	0.4972 ppm
Concentration per Run 3	0.5067 ppm	0.5155 ppm	0.4847 ppm	0.4940 ppm	0.5133 ppm	0.5232 ppm	0.4994 ppm
Recovery Percentage 1	100.910 %	104.564 %	97.393 %	98.714 %	102.680 %	104.279 %	99.841 %
Concentration RSD	0.4 %	1.4 %	0.4 %	0.3 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4907 ppm	0.5052 ppm	0.4850 ppm	0.4945 ppm	0.5170 ppm	5.2561 ppm	0.5101 ppm
Concentration per Run 1	0.4873 ppm	0.5027 ppm	0.4830 ppm	0.4927 ppm	0.5160 ppm	5.2529 ppm	0.5071 ppm
Concentration per Run 2	0.4907 ppm	0.5048 ppm	0.4855 ppm	0.4937 ppm	0.5181 ppm	5.2378 ppm	0.5121 ppm
Concentration per Run 3	0.4940 ppm	0.5080 ppm	0.4865 ppm	0.4972 ppm	0.5168 ppm	5.2777 ppm	0.5110 ppm
Recovery Percentage 1	98.131 %	101.040 %	96.998 %	98.907 %	103.394 %	105.123 %	102.017 %
Concentration RSD	0.7 %	0.5 %	0.4 %	0.5 %	0.2 %	0.4 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4823 ppm	0.4924 ppm	0.5112 ppm	10.1183 ppm	0.5032 ppm	0.5019 ppm	0.5071 ppm
Concentration per Run 1	0.4802 ppm	0.4903 ppm	0.5047 ppm	10.1072 ppm	0.5017 ppm	0.5043 ppm	0.5000 ppm
Concentration per Run 2	0.4815 ppm	0.4924 ppm	0.5127 ppm	10.1305 ppm	0.5043 ppm	0.5014 ppm	0.5068 ppm
Concentration per Run 3	0.4852 ppm	0.4946 ppm	0.5161 ppm	10.1171 ppm	0.5037 ppm	0.4999 ppm	0.5144 ppm
Recovery Percentage 1	96.463 %	98.487 %	102.235 %	101.183 %	100.643 %	100.376 %	101.416 %
Concentration RSD	0.5 %	0.4 %	1.1 %	0.1 %	0.3 %	0.5 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4975 ppm	5.6034 ppm	0.5218 ppm	0.5143 ppm	0.4950 ppm	0.5071 ppm	0.4870 ppm
Concentration per Run 1	0.5041 ppm	5.5757 ppm	0.5210 ppm	0.5130 ppm	0.4932 ppm	0.5076 ppm	0.4868 ppm
Concentration per Run 2	0.4961 ppm	5.6011 ppm	0.5220 ppm	0.5155 ppm	0.4948 ppm	0.5106 ppm	0.4868 ppm
Concentration per Run 3	0.4922 ppm	5.6335 ppm	0.5224 ppm	0.5145 ppm	0.4970 ppm	0.5033 ppm	0.4873 ppm
Recovery Percentage 1	99.502 %	106.732 %	104.361 %	102.861 %	99.002 %	101.427 %	97.394 %
Concentration RSD	1.2 %	0.5 %	0.1 %	0.2 %	0.4 %	0.7 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5120 ppm	102.9555 %	101.4451 %	100.2168 %	102.6798 %	100.5224 %	101.0529 %
Concentration per Run 1	0.5111 ppm	103.9253 %	102.1523 %	99.0872 %	103.7705 %	101.5296 %	99.9370 %
Concentration per Run 2	0.5137 ppm	103.1530 %	101.8658 %	100.1395 %	102.6232 %	100.6675 %	100.6861 %
Concentration per Run 3	0.5111 ppm	101.7883 %	100.3173 %	101.4238 %	101.6457 %	99.3699 %	102.5354 %
Recovery Percentage 1	102.397 %						
Concentration RSD	0.3 %	1.1 %	1.0 %	1.2 %	1.0 %	1.1 %	1.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:41:43 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0172 ppm	-0.0006 ppm	0.0022 ppm	0.0004 ppm	0.0003 ppm	0.0054 ppm
Concentration per Run 1	0.0004 ppm	0.0170 ppm	0.0000 ppm	0.0015 ppm	0.0004 ppm	0.0003 ppm	0.0062 ppm
Concentration per Run 2	0.0006 ppm	0.0160 ppm	0.0017 ppm	0.0023 ppm	0.0003 ppm	0.0003 ppm	0.0048 ppm
Concentration per Run 3	0.0008 ppm	0.0188 ppm	-0.0034 ppm	0.0028 ppm	0.0004 ppm	0.0003 ppm	0.0054 ppm
Recovery Percentage 1	8.363 %	17.243 %	-11.334 %	7.301 %	3.560 %	7.683 %	5.441 %
Concentration RSD	31.0 %	8.1 %	453.6 %	30.3 %	3.0 %	3.0 %	13.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0033 ppm	0.0167 ppm	0.0006 ppm
Concentration per Run 1	0.0005 ppm	-0.0012 ppm	-0.0001 ppm	0.0003 ppm	0.0051 ppm	0.0270 ppm	-0.0006 ppm
Concentration per Run 2	0.0003 ppm	-0.0007 ppm	-0.0005 ppm	0.0001 ppm	0.0028 ppm	0.0163 ppm	0.0016 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	-0.0006 ppm	0.0003 ppm	0.0018 ppm	0.0067 ppm	0.0007 ppm
Recovery Percentage 1	7.526 %	-3.149 %	-4.259 %	2.604 %	6.508 %	0.667 %	11.900 %
Concentration RSD	28.4 %	93.5 %	66.4 %	48.0 %	51.5 %	60.8 %	182.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0003 ppm	0.0002 ppm	-0.0049 ppm	0.0002 ppm	-0.0007 ppm	0.0021 ppm
Concentration per Run 1	-0.0015 ppm	0.0002 ppm	0.0002 ppm	-0.0055 ppm	-0.0002 ppm	-0.0017 ppm	0.0007 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	0.0004 ppm	-0.0074 ppm	0.0004 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 3	-0.0020 ppm	0.0003 ppm	-0.0001 ppm	-0.0018 ppm	0.0003 ppm	0.0005 ppm	0.0045 ppm
Recovery Percentage 1	-1.544 %	2.802 %	0.379 %	-0.245 %	0.665 %	-6.644 %	4.152 %
Concentration RSD	27.4 %	13.5 %	139.2 %	58.7 %	188.3 %	170.7 %	103.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0121 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0010 ppm	0.0126 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0123 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0116 ppm	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0015 ppm	0.0002 ppm
Recovery Percentage 1	9.470 %	2.428 %	0.746 %	2.802 %	1.369 %	2.611 %	2.089 %
Concentration RSD	54.9 %	4.4 %	230.2 %	12.5 %	110.8 %	188.0 %	15.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	104.0177 %	102.0144 %	103.7658 %	105.9107 %	101.4815 %	105.1247 %
Concentration per Run 1	0.0004 ppm	105.1347 %	101.1885 %	103.1794 %	107.2083 %	100.7950 %	105.1069 %
Concentration per Run 2	0.0002 ppm	103.5480 %	102.9576 %	103.8299 %	105.3190 %	102.2778 %	104.9879 %
Concentration per Run 3	0.0002 ppm	103.3704 %	101.8972 %	104.2881 %	105.2047 %	101.3716 %	105.2793 %
Recovery Percentage 1	5.520 %						
Concentration RSD	39.1 %	0.9 %	0.9 %	0.5 %	1.1 %	0.7 %	0.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-1 WG1935273
Analysis started at: 6/18/2024 6:51:14 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0251 ppm	0.0011 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0145 ppm
Concentration per Run 1	0.0008 ppm	0.0213 ppm	0.0025 ppm	0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0130 ppm
Concentration per Run 2	-0.0002 ppm	0.0310 ppm	0.0043 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0182 ppm
Concentration per Run 3	0.0000 ppm	0.0231 ppm	-0.0033 ppm	0.0020 ppm	0.0004 ppm	0.0001 ppm	0.0122 ppm
Concentration RSD	226.5 %	20.4 %	347.2 %	130.7 %	12.1 %	14.3 %	22.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0266 ppm	0.0056 ppm	0.0007 ppm
Concentration per Run 1	0.0002 ppm	-0.0008 ppm	0.0001 ppm	-0.0002 ppm	0.0273 ppm	0.0137 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0004 ppm	0.0005 ppm	0.0258 ppm	-0.0105 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0268 ppm	0.0135 ppm	0.0007 ppm
Concentration RSD	77.4 %	164.4 %	112.6 %	160.7 %	2.9 %	248.6 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0024 ppm	0.0014 ppm	-0.0016 ppm	0.0247 ppm	0.0003 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	0.0006 ppm	0.0013 ppm	-0.0012 ppm	0.0229 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	0.0042 ppm	0.0014 ppm	-0.0017 ppm	0.0275 ppm	0.0008 ppm	-0.0011 ppm	-0.0023 ppm
Concentration per Run 3	0.0023 ppm	0.0016 ppm	-0.0018 ppm	0.0236 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	76.4 %	12.1 %	21.8 %	9.9 %	133.4 %	287.8 %	235.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	0.0110 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 1	-0.0009 ppm	0.0091 ppm	-0.0013 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 2	-0.0014 ppm	0.0133 ppm	-0.0011 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	-0.0051 ppm	0.0106 ppm	-0.0008 ppm	0.0001 ppm	-0.0002 ppm	0.0011 ppm	-0.0004 ppm
Concentration RSD	94.0 %	19.3 %	27.3 %	233.4 %	712.2 %	128.2 %	26.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	104.6116 %	102.4827 %	102.1738 %	104.6062 %	102.0229 %	101.5730 %
Concentration per Run 1	0.0006 ppm	104.8923 %	102.1748 %	102.7355 %	105.0730 %	101.9844 %	101.7771 %
Concentration per Run 2	0.0003 ppm	103.6364 %	102.8080 %	102.4186 %	103.4120 %	101.8680 %	101.7036 %
Concentration per Run 3	0.0007 ppm	105.3059 %	102.4652 %	101.3674 %	105.3336 %	102.2162 %	101.2383 %
Concentration RSD	35.5 %	0.8 %	0.3 %	0.7 %	1.0 %	0.2 %	0.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-2d2 WG1935273
Analysis started at: 6/18/2024 6:54:56 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0515 ppm	2.0619 ppm	0.1228 ppm	1.0302 ppm	2.0213 ppm	0.0522 ppm	10.2991 ppm
Concentration per Run 1	0.0515 ppm	2.0695 ppm	0.1223 ppm	1.0376 ppm	2.0114 ppm	0.0523 ppm	10.3295 ppm
Concentration per Run 2	0.0516 ppm	2.0558 ppm	0.1219 ppm	1.0233 ppm	2.0132 ppm	0.0520 ppm	10.2346 ppm
Concentration per Run 3	0.0513 ppm	2.0605 ppm	0.1242 ppm	1.0298 ppm	2.0393 ppm	0.0525 ppm	10.3333 ppm
Concentration RSD	0.2 %	0.3 %	1.0 %	0.7 %	0.8 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0551 ppm	0.5069 ppm	0.1993 ppm	0.2561 ppm	1.0499 ppm	10.5594 ppm	0.0000 ppm
Concentration per Run 1	0.0557 ppm	0.5105 ppm	0.2009 ppm	0.2587 ppm	1.0540 ppm	10.5430 ppm	0.0008 ppm
Concentration per Run 2	0.0542 ppm	0.5029 ppm	0.1975 ppm	0.2548 ppm	1.0421 ppm	10.5133 ppm	-0.0013 ppm
Concentration per Run 3	0.0553 ppm	0.5074 ppm	0.1994 ppm	0.2549 ppm	1.0534 ppm	10.6221 ppm	0.0005 ppm
Concentration RSD	1.4 %	0.8 %	0.9 %	0.9 %	0.6 %	0.5 %	19,571.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1809 ppm	0.5092 ppm	1.0164 ppm	10.4979 ppm	0.5123 ppm	0.5431 ppm	0.5319 ppm
Concentration per Run 1	10.2000 ppm	0.5101 ppm	1.0097 ppm	10.4756 ppm	0.5121 ppm	0.5409 ppm	0.5355 ppm
Concentration per Run 2	10.0894 ppm	0.5072 ppm	1.0113 ppm	10.4307 ppm	0.5110 ppm	0.5421 ppm	0.5233 ppm
Concentration per Run 3	10.2533 ppm	0.5104 ppm	1.0280 ppm	10.5875 ppm	0.5139 ppm	0.5461 ppm	0.5369 ppm
Concentration RSD	0.8 %	0.3 %	1.0 %	0.8 %	0.3 %	0.5 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1224 ppm	1.2055 ppm	1.0299 ppm	0.9931 ppm	1.0184 ppm	0.1222 ppm	0.5057 ppm
Concentration per Run 1	0.1241 ppm	1.2178 ppm	1.0384 ppm	0.9896 ppm	1.0214 ppm	0.1212 ppm	0.5084 ppm
Concentration per Run 2	0.1201 ppm	1.1901 ppm	1.0227 ppm	0.9887 ppm	1.0125 ppm	0.1217 ppm	0.5027 ppm
Concentration per Run 3	0.1230 ppm	1.2087 ppm	1.0287 ppm	1.0010 ppm	1.0213 ppm	0.1236 ppm	0.5060 ppm
Concentration RSD	1.7 %	1.2 %	0.8 %	0.7 %	0.5 %	1.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5124 ppm	103.0129 %	103.0510 %	101.7707 %	103.1491 %	102.6919 %	103.5495 %
Concentration per Run 1	0.5135 ppm	101.9243 %	102.6335 %	102.6175 %	102.3117 %	102.4430 %	104.5402 %
Concentration per Run 2	0.5105 ppm	103.7324 %	103.5411 %	101.3341 %	103.7173 %	102.8620 %	102.9187 %
Concentration per Run 3	0.5131 ppm	103.3819 %	102.9782 %	101.3606 %	103.4183 %	102.7707 %	103.1896 %
Concentration RSD	0.3 %	0.9 %	0.4 %	0.7 %	0.7 %	0.2 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2433746-01d2 WG1935273
Analysis started at: 6/18/2024 6:58:26 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0067 ppm	69.6155 ppm	0.0621 ppm	0.0328 ppm	1.2283 ppm	0.0049 ppm	69.0142 ppm
Concentration per Run 1	0.0072 ppm	70.0457 ppm	0.0601 ppm	0.0313 ppm	1.2354 ppm	0.0049 ppm	69.4192 ppm
Concentration per Run 2	0.0066 ppm	69.4870 ppm	0.0634 ppm	0.0355 ppm	1.2226 ppm	0.0049 ppm	69.0472 ppm
Concentration per Run 3	0.0062 ppm	69.3138 ppm	0.0628 ppm	0.0315 ppm	1.2268 ppm	0.0048 ppm	68.5764 ppm
Concentration RSD	7.7 %	0.5 %	2.8 %	7.2 %	0.5 %	1.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0842 ppm	0.1795 ppm	0.5118 ppm	197.0000 ppm	11.8051 ppm	0.0982 ppm
Concentration per Run 1	0.0043 ppm	0.0850 ppm	0.1813 ppm	0.5181 ppm	197.5735 ppm	11.8792 ppm	0.0994 ppm
Concentration per Run 2	0.0044 ppm	0.0847 ppm	0.1792 ppm	0.5089 ppm	196.9994 ppm	11.7523 ppm	0.0977 ppm
Concentration per Run 3	0.0040 ppm	0.0829 ppm	0.1780 ppm	0.5085 ppm	196.4270 ppm	11.7838 ppm	0.0974 ppm
Concentration RSD	5.4 %	1.4 %	0.9 %	1.1 %	0.3 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.5396 ppm	5.0362 ppm	0.0057 ppm	4.9089 ppm	0.1806 ppm	3.6684 ppm	0.0080 ppm
Concentration per Run 1	32.7475 ppm	5.0646 ppm	0.0054 ppm	4.9306 ppm	0.1816 ppm	3.5430 ppm	0.0052 ppm
Concentration per Run 2	32.5237 ppm	5.0082 ppm	0.0059 ppm	4.8991 ppm	0.1819 ppm	3.7897 ppm	0.0123 ppm
Concentration per Run 3	32.3476 ppm	5.0360 ppm	0.0059 ppm	4.8968 ppm	0.1784 ppm	3.6725 ppm	0.0066 ppm
Concentration RSD	0.6 %	0.6 %	4.5 %	0.4 %	1.1 %	3.4 %	46.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0077 ppm	4.2370 ppm	0.0831 ppm	0.2510 ppm	3.2166 ppm	0.0048 ppm	0.2381 ppm
Concentration per Run 1	-0.0076 ppm	4.3829 ppm	0.0862 ppm	0.2521 ppm	3.2420 ppm	0.0051 ppm	0.2403 ppm
Concentration per Run 2	-0.0069 ppm	4.2318 ppm	0.0829 ppm	0.2500 ppm	3.2099 ppm	0.0033 ppm	0.2376 ppm
Concentration per Run 3	-0.0086 ppm	4.0963 ppm	0.0802 ppm	0.2509 ppm	3.1977 ppm	0.0062 ppm	0.2365 ppm
Concentration RSD	10.9 %	3.4 %	3.6 %	0.4 %	0.7 %	30.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.5080 ppm	107.5896 %	107.0086 %	99.1952 %	125.2480 %	124.3526 %	124.3292 %
Concentration per Run 1	2.5130 ppm	107.4325 %	106.7236 %	103.1716 %	125.2447 %	124.2045 %	128.0357 %
Concentration per Run 2	2.5129 ppm	107.0195 %	107.1030 %	96.4280 %	124.5368 %	124.6949 %	121.9749 %
Concentration per Run 3	2.4979 ppm	108.3166 %	107.1991 %	97.9859 %	125.9625 %	124.1585 %	122.9771 %
Concentration RSD	0.3 %	0.6 %	0.2 %	3.6 %	0.6 %	0.2 %	2.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432563-03d2 WG1935273
Analysis started at: 6/18/2024 7:01:54 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0042 ppm	106.1980 ppm	0.0267 ppm	0.0056 ppm	0.4258 ppm	0.0045 ppm	23.7291 ppm
Concentration per Run 1	0.0041 ppm	106.1064 ppm	0.0276 ppm	0.0048 ppm	0.4251 ppm	0.0045 ppm	23.7233 ppm
Concentration per Run 2	0.0046 ppm	106.4081 ppm	0.0263 ppm	0.0048 ppm	0.4268 ppm	0.0045 ppm	23.7181 ppm
Concentration per Run 3	0.0039 ppm	106.0795 ppm	0.0261 ppm	0.0074 ppm	0.4254 ppm	0.0045 ppm	23.7458 ppm
Concentration RSD	9.3 %	0.2 %	3.0 %	26.8 %	0.2 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0047 ppm	0.0520 ppm	0.0907 ppm	0.0705 ppm	173.2108 ppm	3.6673 ppm	0.0624 ppm
Concentration per Run 1	-0.0049 ppm	0.0508 ppm	0.0906 ppm	0.0701 ppm	172.8499 ppm	3.6637 ppm	0.0617 ppm
Concentration per Run 2	-0.0048 ppm	0.0527 ppm	0.0906 ppm	0.0708 ppm	173.5234 ppm	3.6618 ppm	0.0631 ppm
Concentration per Run 3	-0.0045 ppm	0.0525 ppm	0.0910 ppm	0.0705 ppm	173.2592 ppm	3.6764 ppm	0.0623 ppm
Concentration RSD	4.6 %	2.0 %	0.2 %	0.5 %	0.2 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.4895 ppm	2.3804 ppm	0.0008 ppm	1.4810 ppm	0.0675 ppm	0.0359 ppm	-0.0023 ppm
Concentration per Run 1	19.4630 ppm	2.3780 ppm	0.0005 ppm	1.4857 ppm	0.0681 ppm	0.0372 ppm	-0.0026 ppm
Concentration per Run 2	19.3998 ppm	2.3813 ppm	0.0009 ppm	1.4814 ppm	0.0662 ppm	0.0367 ppm	-0.0025 ppm
Concentration per Run 3	19.6057 ppm	2.3819 ppm	0.0009 ppm	1.4758 ppm	0.0683 ppm	0.0339 ppm	-0.0020 ppm
Concentration RSD	0.5 %	0.1 %	28.3 %	0.3 %	1.7 %	4.9 %	14.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0054 ppm	5.7119 ppm	0.0074 ppm	0.1553 ppm	3.7789 ppm	0.0064 ppm	0.2392 ppm
Concentration per Run 1	-0.0063 ppm	5.6680 ppm	0.0077 ppm	0.1551 ppm	3.7824 ppm	0.0066 ppm	0.2385 ppm
Concentration per Run 2	-0.0035 ppm	5.7129 ppm	0.0067 ppm	0.1555 ppm	3.7629 ppm	0.0065 ppm	0.2385 ppm
Concentration per Run 3	-0.0064 ppm	5.7549 ppm	0.0077 ppm	0.1553 ppm	3.7914 ppm	0.0059 ppm	0.2406 ppm
Concentration RSD	31.2 %	0.8 %	7.8 %	0.1 %	0.4 %	5.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3537 ppm	109.0635 %	109.5683 %	101.9501 %	**169.8585 %**	**170.7274 %**	**169.8840 %**
Concentration per Run 1	0.3550 ppm	109.7772 %	110.4285 %	101.8752 %	**170.6001 %**	**172.0116 %**	**170.4357 %**
Concentration per Run 2	0.3518 ppm	109.2950 %	110.0814 %	101.7227 %	**170.3256 %**	**171.6362 %**	**169.1464 %**
Concentration per Run 3	0.3542 ppm	108.1184 %	108.1950 %	102.2524 %	**168.6500 %**	**168.5344 %**	**170.0698 %**
Concentration RSD	0.5 %	0.8 %	1.1 %	0.3 %	**0.6 %**	**1.1 %**	**0.4 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-01d2 WG1935273
Analysis started at: 6/18/2024 7:05:22 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0105 ppm	127.3474 ppm	0.5522 ppm	0.0082 ppm	0.8997 ppm	0.0046 ppm	14.9354 ppm
Concentration per Run 1	0.0106 ppm	128.2282 ppm	0.5518 ppm	0.0080 ppm	0.9106 ppm	0.0046 ppm	15.0385 ppm
Concentration per Run 2	0.0103 ppm	121.9400 ppm	0.5453 ppm	0.0084 ppm	0.8608 ppm	0.0044 ppm	14.3034 ppm
Concentration per Run 3	0.0106 ppm	131.8741 ppm	0.5594 ppm	0.0082 ppm	0.9279 ppm	0.0047 ppm	15.4642 ppm
Concentration RSD	2.0 %	3.9 %	1.3 %	2.6 %	3.9 %	4.0 %	3.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0094 ppm	0.0631 ppm	0.5449 ppm	0.2095 ppm	169.8030 ppm	14.4548 ppm	0.1044 ppm
Concentration per Run 1	0.0091 ppm	0.0637 ppm	0.5398 ppm	0.2108 ppm	171.4243 ppm	14.6268 ppm	0.1063 ppm
Concentration per Run 2	0.0096 ppm	0.0629 ppm	0.5457 ppm	0.2083 ppm	162.4506 ppm	13.8720 ppm	0.0992 ppm
Concentration per Run 3	0.0095 ppm	0.0628 ppm	0.5492 ppm	0.2095 ppm	175.5341 ppm	14.8655 ppm	0.1077 ppm
Concentration RSD	2.9 %	0.7 %	0.9 %	0.6 %	3.9 %	3.6 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.3499 ppm	3.6015 ppm	0.0011 ppm	0.3528 ppm	0.1312 ppm	1.5993 ppm	-0.0009 ppm
Concentration per Run 1	31.3215 ppm	3.6394 ppm	0.0012 ppm	0.3580 ppm	0.1296 ppm	1.5912 ppm	0.0001 ppm
Concentration per Run 2	31.3271 ppm	3.4425 ppm	0.0012 ppm	0.3425 ppm	0.1308 ppm	1.5857 ppm	0.0015 ppm
Concentration per Run 3	31.4010 ppm	3.7227 ppm	0.0011 ppm	0.3579 ppm	0.1331 ppm	1.6210 ppm	-0.0043 ppm
Concentration RSD	0.1 %	4.0 %	4.5 %	2.5 %	1.4 %	1.2 %	337.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	3.4043 ppm	0.0214 ppm	0.0702 ppm	5.0245 ppm	0.0061 ppm	0.2656 ppm
Concentration per Run 1	-0.0053 ppm	3.3768 ppm	0.0202 ppm	0.0711 ppm	4.9943 ppm	0.0056 ppm	0.2665 ppm
Concentration per Run 2	0.0005 ppm	3.4242 ppm	0.0221 ppm	0.0671 ppm	5.0255 ppm	0.0059 ppm	0.2648 ppm
Concentration per Run 3	-0.0014 ppm	3.4120 ppm	0.0219 ppm	0.0723 ppm	5.0537 ppm	0.0068 ppm	0.2654 ppm
Concentration RSD	141.0 %	0.7 %	5.1 %	3.9 %	0.6 %	9.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0273 ppm	107.1345 %	108.7657 %	100.2864 %	131.3938 %	133.2661 %	130.9789 %
Concentration per Run 1	1.0259 ppm	107.8001 %	108.2940 %	100.8309 %	132.9477 %	132.9800 %	131.5502 %
Concentration per Run 2	1.0267 ppm	107.0744 %	112.8059 %	100.6019 %	130.6683 %	137.3309 %	131.4743 %
Concentration per Run 3	1.0292 ppm	106.5291 %	105.1972 %	99.4263 %	130.5653 %	129.4875 %	129.9122 %
Concentration RSD	0.2 %	0.6 %	3.5 %	0.8 %	1.0 %	2.9 %	0.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-22d2 WG1935273
Analysis started at: 6/18/2024 7:08:49 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0065 ppm	205.5374 ppm	0.3057 ppm	0.0026 ppm	1.5162 ppm	0.0073 ppm	6.9712 ppm
Concentration per Run 1	0.0059 ppm	206.2217 ppm	0.3067 ppm	0.0049 ppm	1.5201 ppm	0.0072 ppm	6.9837 ppm
Concentration per Run 2	0.0068 ppm	207.1890 ppm	0.3045 ppm	0.0020 ppm	1.5311 ppm	0.0074 ppm	7.0610 ppm
Concentration per Run 3	0.0067 ppm	203.2015 ppm	0.3059 ppm	0.0010 ppm	1.4974 ppm	0.0072 ppm	6.8690 ppm
Concentration RSD	7.1 %	1.0 %	0.4 %	76.8 %	1.1 %	1.8 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0062 ppm	0.1114 ppm	0.3280 ppm	0.2173 ppm	249.4243 ppm	25.6071 ppm	0.1865 ppm
Concentration per Run 1	-0.0062 ppm	0.1108 ppm	0.3255 ppm	0.2161 ppm	248.8173 ppm	25.7632 ppm	0.1890 ppm
Concentration per Run 2	-0.0062 ppm	0.1111 ppm	0.3281 ppm	0.2175 ppm	252.4793 ppm	25.7699 ppm	0.1868 ppm
Concentration per Run 3	-0.0062 ppm	0.1122 ppm	0.3305 ppm	0.2182 ppm	246.9764 ppm	25.2882 ppm	0.1836 ppm
Concentration RSD	0.0 %	0.6 %	0.8 %	0.5 %	1.1 %	1.1 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.3026 ppm	6.6981 ppm	-0.0016 ppm	0.4700 ppm	0.2119 ppm	0.9962 ppm	-0.0061 ppm
Concentration per Run 1	52.0051 ppm	6.7102 ppm	-0.0016 ppm	0.4748 ppm	0.2116 ppm	1.0045 ppm	-0.0083 ppm
Concentration per Run 2	52.2234 ppm	6.7598 ppm	-0.0018 ppm	0.4708 ppm	0.2110 ppm	0.9904 ppm	-0.0040 ppm
Concentration per Run 3	52.6792 ppm	6.6242 ppm	-0.0013 ppm	0.4646 ppm	0.2130 ppm	0.9938 ppm	-0.0060 ppm
Concentration RSD	0.7 %	1.0 %	17.4 %	1.1 %	0.5 %	0.7 %	35.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0072 ppm	5.1603 ppm	0.0146 ppm	0.0673 ppm	9.5802 ppm	0.0108 ppm	0.3938 ppm
Concentration per Run 1	-0.0097 ppm	5.1049 ppm	0.0145 ppm	0.0673 ppm	9.5172 ppm	0.0103 ppm	0.3926 ppm
Concentration per Run 2	-0.0050 ppm	5.1414 ppm	0.0151 ppm	0.0680 ppm	9.5922 ppm	0.0106 ppm	0.3928 ppm
Concentration per Run 3	-0.0069 ppm	5.2344 ppm	0.0141 ppm	0.0665 ppm	9.6312 ppm	0.0113 ppm	0.3959 ppm
Concentration RSD	33.0 %	1.3 %	3.5 %	1.1 %	0.6 %	4.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6776 ppm	108.8966 %	109.5112 %	102.7172 %	143.7464 %	144.7039 %	145.4004 %
Concentration per Run 1	0.6717 ppm	110.1860 %	110.2328 %	102.0217 %	146.0102 %	145.5994 %	144.9308 %
Concentration per Run 2	0.6762 ppm	109.1515 %	108.0535 %	103.9782 %	143.3385 %	143.3312 %	147.0692 %
Concentration per Run 3	0.6851 ppm	107.3523 %	110.2472 %	102.1516 %	141.8905 %	145.1810 %	144.2012 %
Concentration RSD	1.0 %	1.3 %	1.2 %	1.1 %	1.5 %	0.8 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-3d2 WG1935273
Analysis started at: 6/18/2024 7:12:19 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0563 ppm	166.1574 ppm	0.4050 ppm	0.9104 ppm	3.0392 ppm	0.0574 ppm	14.7695 ppm
Concentration per Run 1	0.0566 ppm	168.0973 ppm	0.4023 ppm	0.9097 ppm	3.0751 ppm	0.0581 ppm	14.9490 ppm
Concentration per Run 2	0.0559 ppm	166.2158 ppm	0.4071 ppm	0.9091 ppm	3.0430 ppm	0.0576 ppm	14.7988 ppm
Concentration per Run 3	0.0563 ppm	164.1592 ppm	0.4055 ppm	0.9125 ppm	2.9995 ppm	0.0567 ppm	14.5607 ppm
Concentration RSD	0.6 %	1.2 %	0.6 %	0.2 %	1.2 %	1.2 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0471 ppm	0.5661 ppm	0.4845 ppm	0.4360 ppm	219.9154 ppm	21.7511 ppm	0.1326 ppm
Concentration per Run 1	0.0477 ppm	0.5693 ppm	0.4871 ppm	0.4352 ppm	222.7810 ppm	21.9862 ppm	0.1348 ppm
Concentration per Run 2	0.0468 ppm	0.5653 ppm	0.4817 ppm	0.4343 ppm	219.7941 ppm	21.7995 ppm	0.1335 ppm
Concentration per Run 3	0.0468 ppm	0.5636 ppm	0.4847 ppm	0.4385 ppm	217.1709 ppm	21.4676 ppm	0.1294 ppm
Concentration RSD	1.1 %	0.5 %	0.6 %	0.5 %	1.3 %	1.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.9790 ppm	6.9725 ppm	0.9867 ppm	10.5296 ppm	0.6705 ppm	1.4234 ppm	0.4435 ppm
Concentration per Run 1	55.2279 ppm	7.0354 ppm	0.9704 ppm	10.6385 ppm	0.6753 ppm	1.4278 ppm	0.4432 ppm
Concentration per Run 2	54.8083 ppm	7.0008 ppm	0.9862 ppm	10.6208 ppm	0.6665 ppm	1.4134 ppm	0.4384 ppm
Concentration per Run 3	54.9009 ppm	6.8812 ppm	1.0036 ppm	10.3294 ppm	0.6696 ppm	1.4288 ppm	0.4489 ppm
Concentration RSD	0.4 %	1.2 %	1.7 %	1.6 %	0.7 %	0.6 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1118 ppm	6.2896 ppm	0.9690 ppm	1.0079 ppm	8.3805 ppm	0.1225 ppm	0.8308 ppm
Concentration per Run 1	0.1091 ppm	6.2843 ppm	0.9718 ppm	1.0212 ppm	8.4344 ppm	0.1227 ppm	0.8315 ppm
Concentration per Run 2	0.1104 ppm	6.2966 ppm	0.9600 ppm	1.0080 ppm	8.3347 ppm	0.1225 ppm	0.8304 ppm
Concentration per Run 3	0.1159 ppm	6.2880 ppm	0.9751 ppm	0.9943 ppm	8.3724 ppm	0.1223 ppm	0.8304 ppm
Concentration RSD	3.2 %	0.1 %	0.8 %	1.3 %	0.6 %	0.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0059 ppm	107.1604 %	108.4180 %	100.3623 %	140.6571 %	142.7922 %	141.7464 %
Concentration per Run 1	1.0051 ppm	107.6183 %	106.7109 %	100.1350 %	141.4136 %	141.6230 %	141.0994 %
Concentration per Run 2	1.0040 ppm	107.6485 %	108.9580 %	100.8526 %	140.6192 %	142.9989 %	142.2959 %
Concentration per Run 3	1.0088 ppm	106.2143 %	109.5851 %	100.0993 %	139.9386 %	143.7547 %	141.8440 %
Concentration RSD	0.3 %	0.8 %	1.4 %	0.4 %	0.5 %	0.8 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-4d2 WG1935273
Analysis started at: 6/18/2024 7:15:49 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0583 ppm	239.7013 ppm	0.5667 ppm	0.8975 ppm	3.5979 ppm	0.0596 ppm	17.5996 ppm
Concentration per Run 1	0.0581 ppm	239.9503 ppm	0.5711 ppm	0.8999 ppm	3.5971 ppm	0.0598 ppm	17.6191 ppm
Concentration per Run 2	0.0589 ppm	240.7232 ppm	0.5673 ppm	0.9006 ppm	3.6218 ppm	0.0599 ppm	17.6237 ppm
Concentration per Run 3	0.0579 ppm	238.4305 ppm	0.5615 ppm	0.8920 ppm	3.5748 ppm	0.0592 ppm	17.5561 ppm
Concentration RSD	0.9 %	0.5 %	0.9 %	0.5 %	0.7 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0443 ppm	0.6031 ppm	0.5943 ppm	0.5181 ppm	297.0973 ppm	30.1982 ppm	0.2038 ppm
Concentration per Run 1	0.0445 ppm	0.6073 ppm	0.5980 ppm	0.5239 ppm	297.4292 ppm	30.2225 ppm	0.2043 ppm
Concentration per Run 2	0.0444 ppm	0.6036 ppm	0.5962 ppm	0.5171 ppm	298.3580 ppm	30.3442 ppm	0.2043 ppm
Concentration per Run 3	0.0441 ppm	0.5986 ppm	0.5888 ppm	0.5132 ppm	295.5048 ppm	30.0280 ppm	0.2029 ppm
Concentration RSD	0.4 %	0.7 %	0.8 %	1.0 %	0.5 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.5440 ppm	8.1166 ppm	1.0129 ppm	10.7475 ppm	0.7293 ppm	1.8350 ppm	0.4141 ppm
Concentration per Run 1	65.7758 ppm	8.1511 ppm	1.0075 ppm	10.6703 ppm	0.7341 ppm	1.8628 ppm	0.4153 ppm
Concentration per Run 2	65.9321 ppm	8.1289 ppm	1.0141 ppm	10.7581 ppm	0.7330 ppm	1.8137 ppm	0.4168 ppm
Concentration per Run 3	64.9240 ppm	8.0698 ppm	1.0170 ppm	10.8140 ppm	0.7207 ppm	1.8283 ppm	0.4104 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %	0.7 %	1.0 %	1.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1079 ppm	6.2570 ppm	0.9833 ppm	1.0338 ppm	12.3591 ppm	0.1280 ppm	0.9927 ppm
Concentration per Run 1	0.1132 ppm	6.3101 ppm	0.9941 ppm	1.0349 ppm	12.3927 ppm	0.1308 ppm	1.0017 ppm
Concentration per Run 2	0.1009 ppm	6.2151 ppm	0.9826 ppm	1.0402 ppm	12.4286 ppm	0.1270 ppm	0.9960 ppm
Concentration per Run 3	0.1096 ppm	6.2459 ppm	0.9732 ppm	1.0263 ppm	12.2559 ppm	0.1262 ppm	0.9803 ppm
Concentration RSD	5.9 %	0.8 %	1.1 %	0.7 %	0.7 %	1.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2829 ppm	107.2932 %	109.4989 %	99.7311 %	152.6586 %	154.5005 %	152.2558 %
Concentration per Run 1	1.2975 ppm	106.8583 %	109.3051 %	98.7887 %	152.5418 %	153.9410 %	151.6664 %
Concentration per Run 2	1.2820 ppm	106.7192 %	109.2791 %	100.8317 %	151.8271 %	154.2604 %	153.6449 %
Concentration per Run 3	1.2692 ppm	108.3021 %	109.9124 %	99.5729 %	153.6069 %	155.3002 %	151.4561 %
Concentration RSD	1.1 %	0.8 %	0.3 %	1.0 %	0.6 %	0.5 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-5d2 WG1935273
Analysis started at: 6/18/2024 7:19:20 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0513 ppm	209.7011 ppm	0.4188 ppm	0.8618 ppm	3.2962 ppm	0.0528 ppm	15.9249 ppm
Concentration per Run 1	0.0517 ppm	208.4394 ppm	0.4199 ppm	0.8596 ppm	3.2787 ppm	0.0527 ppm	15.8745 ppm
Concentration per Run 2	0.0517 ppm	210.8579 ppm	0.4077 ppm	0.8760 ppm	3.3175 ppm	0.0530 ppm	15.9852 ppm
Concentration per Run 3	0.0505 ppm	209.8060 ppm	0.4286 ppm	0.8500 ppm	3.2924 ppm	0.0527 ppm	15.9151 ppm
Concentration RSD	1.3 %	0.6 %	2.5 %	1.5 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0393 ppm	0.5289 ppm	0.4955 ppm	0.4444 ppm	249.9322 ppm	35.2703 ppm	0.1868 ppm
Concentration per Run 1	0.0387 ppm	0.5314 ppm	0.4957 ppm	0.4439 ppm	250.4116 ppm	34.8964 ppm	0.1844 ppm
Concentration per Run 2	0.0399 ppm	0.5332 ppm	0.5034 ppm	0.4492 ppm	250.1740 ppm	35.6156 ppm	0.1885 ppm
Concentration per Run 3	0.0391 ppm	0.5223 ppm	0.4873 ppm	0.4400 ppm	249.2109 ppm	35.2988 ppm	0.1875 ppm
Concentration RSD	1.6 %	1.1 %	1.6 %	1.0 %	0.3 %	1.0 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.1079 ppm	7.1450 ppm	0.8600 ppm	9.9764 ppm	0.6281 ppm	1.4751 ppm	0.3817 ppm
Concentration per Run 1	59.9681 ppm	7.1313 ppm	0.8401 ppm	9.8560 ppm	0.6284 ppm	1.4755 ppm	0.3807 ppm
Concentration per Run 2	60.7837 ppm	7.1379 ppm	0.8686 ppm	10.0795 ppm	0.6347 ppm	1.4230 ppm	0.3845 ppm
Concentration per Run 3	59.5718 ppm	7.1658 ppm	0.8713 ppm	9.9937 ppm	0.6211 ppm	1.5267 ppm	0.3799 ppm
Concentration RSD	1.0 %	0.3 %	2.0 %	1.1 %	1.1 %	3.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1043 ppm	6.0039 ppm	0.8718 ppm	0.9535 ppm	10.4017 ppm	0.1167 ppm	0.8205 ppm
Concentration per Run 1	0.1053 ppm	5.9593 ppm	0.8659 ppm	0.9468 ppm	10.4004 ppm	0.1189 ppm	0.8195 ppm
Concentration per Run 2	0.1021 ppm	6.1504 ppm	0.8828 ppm	0.9581 ppm	10.5245 ppm	0.1118 ppm	0.8285 ppm
Concentration per Run 3	0.1055 ppm	5.9020 ppm	0.8665 ppm	0.9555 ppm	10.2803 ppm	0.1192 ppm	0.8135 ppm
Concentration RSD	1.8 %	2.2 %	1.1 %	0.6 %	1.2 %	3.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0925 ppm	107.1167 %	109.2815 %	99.1863 %	140.9586 %	145.7104 %	141.0947 %
Concentration per Run 1	1.0881 ppm	106.8892 %	108.6921 %	98.2426 %	140.3725 %	144.5552 %	139.5284 %
Concentration per Run 2	1.1046 ppm	106.5034 %	109.8531 %	103.4281 %	140.1162 %	147.0136 %	145.5709 %
Concentration per Run 3	1.0847 ppm	107.9574 %	109.2993 %	95.8880 %	142.3870 %	145.5625 %	138.1849 %
Concentration RSD	1.0 %	0.7 %	0.5 %	3.9 %	0.9 %	0.8 %	2.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935273-6d10 WG1935273
Analysis started at: 6/18/2024 7:22:51 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	43.2760 ppm	0.0639 ppm	0.0029 ppm	0.3206 ppm	0.0016 ppm	1.4744 ppm
Concentration per Run 1	0.0019 ppm	43.1986 ppm	0.0618 ppm	0.0021 ppm	0.3185 ppm	0.0016 ppm	1.4704 ppm
Concentration per Run 2	0.0019 ppm	43.4447 ppm	0.0655 ppm	0.0034 ppm	0.3238 ppm	0.0016 ppm	1.4759 ppm
Concentration per Run 3	0.0016 ppm	43.1846 ppm	0.0643 ppm	0.0033 ppm	0.3193 ppm	0.0015 ppm	1.4770 ppm
Concentration RSD	11.0 %	0.3 %	3.0 %	25.6 %	0.9 %	4.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0012 ppm	0.0238 ppm	0.0684 ppm	0.0450 ppm	55.4644 ppm	5.2590 ppm	0.0384 ppm
Concentration per Run 1	-0.0012 ppm	0.0231 ppm	0.0683 ppm	0.0451 ppm	55.2757 ppm	5.2556 ppm	0.0395 ppm
Concentration per Run 2	-0.0011 ppm	0.0244 ppm	0.0684 ppm	0.0456 ppm	55.6618 ppm	5.2647 ppm	0.0381 ppm
Concentration per Run 3	-0.0012 ppm	0.0239 ppm	0.0685 ppm	0.0444 ppm	55.4556 ppm	5.2568 ppm	0.0376 ppm
Concentration RSD	5.6 %	2.7 %	0.1 %	1.4 %	0.3 %	0.1 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0737 ppm	1.4492 ppm	0.0009 ppm	0.0907 ppm	0.0452 ppm	0.2178 ppm	0.0008 ppm
Concentration per Run 1	11.0283 ppm	1.4460 ppm	0.0009 ppm	0.0924 ppm	0.0446 ppm	0.2149 ppm	0.0036 ppm
Concentration per Run 2	11.1388 ppm	1.4549 ppm	0.0013 ppm	0.0880 ppm	0.0449 ppm	0.2201 ppm	-0.0021 ppm
Concentration per Run 3	11.0541 ppm	1.4467 ppm	0.0006 ppm	0.0918 ppm	0.0462 ppm	0.2185 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.3 %	34.2 %	2.6 %	1.9 %	1.2 %	370.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	1.0588 ppm	0.0067 ppm	0.0142 ppm	2.0149 ppm	0.0020 ppm	0.0811 ppm
Concentration per Run 1	-0.0032 ppm	1.0482 ppm	0.0066 ppm	0.0142 ppm	2.0077 ppm	0.0024 ppm	0.0811 ppm
Concentration per Run 2	-0.0049 ppm	1.0739 ppm	0.0077 ppm	0.0143 ppm	2.0237 ppm	0.0015 ppm	0.0815 ppm
Concentration per Run 3	-0.0012 ppm	1.0542 ppm	0.0058 ppm	0.0141 ppm	2.0133 ppm	0.0022 ppm	0.0806 ppm
Concentration RSD	58.3 %	1.3 %	14.2 %	0.7 %	0.4 %	24.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1431 ppm	107.6348 %	105.9136 %	101.7175 %	115.0895 %	113.1706 %	111.9407 %
Concentration per Run 1	0.1421 ppm	108.7023 %	107.1199 %	102.6956 %	116.7707 %	114.5508 %	112.9946 %
Concentration per Run 2	0.1438 ppm	106.3014 %	105.4761 %	100.7363 %	113.5993 %	112.6482 %	110.8481 %
Concentration per Run 3	0.1434 ppm	107.9006 %	105.1449 %	101.7204 %	114.8984 %	112.3129 %	111.9795 %
Concentration RSD	0.6 %	1.1 %	1.0 %	1.0 %	1.4 %	1.1 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:26:18 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4914 ppm	0.5081 ppm	0.4717 ppm	0.4899 ppm	0.4888 ppm	0.5046 ppm	0.4743 ppm
Concentration per Run 1	0.4912 ppm	0.5028 ppm	0.4687 ppm	0.4896 ppm	0.4883 ppm	0.5015 ppm	0.4707 ppm
Concentration per Run 2	0.4890 ppm	0.5050 ppm	0.4727 ppm	0.4873 ppm	0.4878 ppm	0.5048 ppm	0.4748 ppm
Concentration per Run 3	0.4941 ppm	0.5166 ppm	0.4737 ppm	0.4927 ppm	0.4904 ppm	0.5076 ppm	0.4774 ppm
Recovery Percentage 1	98.285 %	101.626 %	94.345 %	97.973 %	97.766 %	100.929 %	94.854 %
Concentration RSD	0.5 %	1.5 %	0.6 %	0.5 %	0.3 %	0.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4875 ppm	0.4971 ppm	0.4805 ppm	0.4850 ppm	0.5004 ppm	5.0368 ppm	0.4898 ppm
Concentration per Run 1	0.4883 ppm	0.4963 ppm	0.4801 ppm	0.4831 ppm	0.4990 ppm	5.0439 ppm	0.4925 ppm
Concentration per Run 2	0.4903 ppm	0.4984 ppm	0.4803 ppm	0.4832 ppm	0.4992 ppm	5.0222 ppm	0.4865 ppm
Concentration per Run 3	0.4838 ppm	0.4966 ppm	0.4811 ppm	0.4886 ppm	0.5030 ppm	5.0443 ppm	0.4904 ppm
Recovery Percentage 1	97.490 %	99.421 %	96.100 %	96.995 %	100.085 %	100.736 %	97.958 %
Concentration RSD	0.7 %	0.2 %	0.1 %	0.6 %	0.5 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4737 ppm	0.4781 ppm	0.4997 ppm	9.7120 ppm	0.4981 ppm	0.4900 ppm	0.4977 ppm
Concentration per Run 1	0.4748 ppm	0.4751 ppm	0.4948 ppm	9.6705 ppm	0.4983 ppm	0.4895 ppm	0.4995 ppm
Concentration per Run 2	0.4739 ppm	0.4763 ppm	0.4999 ppm	9.7259 ppm	0.4979 ppm	0.4882 ppm	0.4917 ppm
Concentration per Run 3	0.4724 ppm	0.4831 ppm	0.5042 ppm	9.7395 ppm	0.4980 ppm	0.4924 ppm	0.5019 ppm
Recovery Percentage 1	94.740 %	95.628 %	99.932 %	97.120 %	99.612 %	98.003 %	99.537 %
Concentration RSD	0.2 %	0.9 %	0.9 %	0.4 %	0.0 %	0.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4828 ppm	5.5176 ppm	0.5118 ppm	0.4976 ppm	0.4892 ppm	0.4952 ppm	0.4790 ppm
Concentration per Run 1	0.4800 ppm	5.5019 ppm	0.5135 ppm	0.4966 ppm	0.4897 ppm	0.4942 ppm	0.4775 ppm
Concentration per Run 2	0.4815 ppm	5.4983 ppm	0.5087 ppm	0.4958 ppm	0.4884 ppm	0.4947 ppm	0.4784 ppm
Concentration per Run 3	0.4868 ppm	5.5528 ppm	0.5134 ppm	0.5003 ppm	0.4895 ppm	0.4966 ppm	0.4810 ppm
Recovery Percentage 1	96.553 %	105.098 %	102.370 %	99.516 %	97.846 %	99.034 %	95.792 %
Concentration RSD	0.7 %	0.6 %	0.5 %	0.5 %	0.1 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4929 ppm	103.8752 %	102.6887 %	101.8564 %	103.8311 %	102.6557 %	103.0528 %
Concentration per Run 1	0.4928 ppm	104.3772 %	103.2453 %	101.7586 %	104.1568 %	103.0192 %	102.9934 %
Concentration per Run 2	0.4923 ppm	103.3466 %	103.3324 %	102.4284 %	103.4599 %	103.3595 %	103.6062 %
Concentration per Run 3	0.4936 ppm	103.9017 %	101.4883 %	101.3821 %	103.8766 %	101.5885 %	102.5589 %
Recovery Percentage 1	98.578 %						
Concentration RSD	0.1 %	0.5 %	1.0 %	0.5 %	0.3 %	0.9 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:29:47 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0207 ppm	0.0008 ppm	0.0010 ppm	0.0002 ppm	0.0002 ppm	0.0042 ppm
Concentration per Run 1	0.0008 ppm	0.0168 ppm	0.0021 ppm	0.0017 ppm	0.0003 ppm	0.0002 ppm	0.0061 ppm
Concentration per Run 2	0.0006 ppm	0.0182 ppm	0.0010 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0027 ppm
Concentration per Run 3	0.0008 ppm	0.0270 ppm	-0.0007 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0038 ppm
Recovery Percentage 1	10.293 %	20.654 %	15.620 %	3.312 %	2.095 %	3.962 %	4.208 %
Concentration RSD	19.5 %	26.9 %	179.5 %	62.6 %	39.7 %	15.0 %	40.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0039 ppm	0.0130 ppm	0.0008 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0043 ppm	-0.0089 ppm	-0.0008 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	-0.0007 ppm	0.0002 ppm	0.0042 ppm	0.0340 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0032 ppm	0.0140 ppm	0.0015 ppm
Recovery Percentage 1	4.976 %	-0.048 %	-4.566 %	1.281 %	7.773 %	0.521 %	15.088 %
Concentration RSD	50.7 %	2,361.6 %	81.0 %	112.2 %	15.5 %	165.0 %	175.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0003 ppm	0.0001 ppm	-0.0169 ppm	0.0000 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0001 ppm	-0.0187 ppm	0.0001 ppm	-0.0008 ppm	0.0017 ppm
Concentration per Run 2	0.0009 ppm	0.0001 ppm	0.0004 ppm	-0.0135 ppm	-0.0008 ppm	-0.0004 ppm	0.0018 ppm
Concentration per Run 3	-0.0015 ppm	0.0004 ppm	0.0000 ppm	-0.0185 ppm	0.0007 ppm	-0.0002 ppm	-0.0010 ppm
Recovery Percentage 1	-0.239 %	3.483 %	0.210 %	-0.845 %	-0.024 %	-4.809 %	1.607 %
Concentration RSD	511.0 %	68.5 %	256.5 %	17.3 %	12,760.3 %	69.6 %	196.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0098 ppm	0.0005 ppm	0.0003 ppm	-0.0004 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0020 ppm	0.0101 ppm	0.0008 ppm	0.0003 ppm	-0.0005 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0027 ppm	0.0099 ppm	0.0005 ppm	0.0003 ppm	-0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 3	-0.0014 ppm	0.0095 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm	0.0016 ppm	0.0000 ppm
Recovery Percentage 1	-20.273 %	1.962 %	0.960 %	2.860 %	-3.993 %	4.697 %	-1.959 %
Concentration RSD	30.8 %	3.2 %	76.3 %	8.5 %	46.7 %	71.2 %	133.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	105.5209 %	102.4488 %	104.3014 %	107.3916 %	103.0619 %	105.6289 %
Concentration per Run 1	0.0001 ppm	105.3498 %	101.9690 %	104.6984 %	107.3485 %	102.4045 %	105.9290 %
Concentration per Run 2	-0.0005 ppm	105.5459 %	102.5543 %	104.9614 %	107.2992 %	103.2787 %	106.3045 %
Concentration per Run 3	0.0001 ppm	105.6671 %	102.8230 %	103.2443 %	107.5272 %	103.5025 %	104.6533 %
Recovery Percentage 1	-1.736 %						
Concentration RSD	401.2 %	0.2 %	0.4 %	0.9 %	0.1 %	0.6 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-02d2 WG1935273
Analysis started at: 6/18/2024 7:33:30 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	154.8670 ppm	0.1329 ppm	0.0010 ppm	1.3397 ppm	0.0048 ppm	7.5677 ppm
Concentration per Run 1	0.0058 ppm	154.2320 ppm	0.1336 ppm	0.0018 ppm	1.3313 ppm	0.0047 ppm	7.5311 ppm
Concentration per Run 2	0.0054 ppm	155.3611 ppm	0.1282 ppm	0.0023 ppm	1.3445 ppm	0.0049 ppm	7.5909 ppm
Concentration per Run 3	0.0054 ppm	155.0077 ppm	0.1367 ppm	-0.0011 ppm	1.3434 ppm	0.0047 ppm	7.5810 ppm
Concentration RSD	4.3 %	0.4 %	3.2 %	182.8 %	0.5 %	2.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0054 ppm	0.0977 ppm	0.3034 ppm	0.2277 ppm	245.3807 ppm	42.7088 ppm	0.1468 ppm
Concentration per Run 1	-0.0051 ppm	0.0983 ppm	0.3035 ppm	0.2282 ppm	243.8066 ppm	42.4741 ppm	0.1468 ppm
Concentration per Run 2	-0.0055 ppm	0.0982 ppm	0.3069 ppm	0.2305 ppm	245.8556 ppm	42.8913 ppm	0.1468 ppm
Concentration per Run 3	-0.0057 ppm	0.0966 ppm	0.2998 ppm	0.2245 ppm	246.4799 ppm	42.7610 ppm	0.1467 ppm
Concentration RSD	4.7 %	0.9 %	1.2 %	1.3 %	0.6 %	0.5 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	45.5878 ppm	3.1991 ppm	-0.0011 ppm	0.4816 ppm	0.1696 ppm	0.3431 ppm	-0.0049 ppm
Concentration per Run 1	45.7508 ppm	3.1796 ppm	-0.0014 ppm	0.4895 ppm	0.1713 ppm	0.3390 ppm	-0.0032 ppm
Concentration per Run 2	46.0053 ppm	3.2074 ppm	-0.0012 ppm	0.4826 ppm	0.1705 ppm	0.3358 ppm	-0.0077 ppm
Concentration per Run 3	45.0073 ppm	3.2102 ppm	-0.0007 ppm	0.4729 ppm	0.1669 ppm	0.3545 ppm	-0.0037 ppm
Concentration RSD	1.1 %	0.5 %	34.6 %	1.7 %	1.4 %	2.9 %	50.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0065 ppm	3.6622 ppm	0.0139 ppm	0.0457 ppm	12.6897 ppm	0.0113 ppm	0.3668 ppm
Concentration per Run 1	-0.0078 ppm	3.6703 ppm	0.0150 ppm	0.0454 ppm	12.7006 ppm	0.0091 ppm	0.3681 ppm
Concentration per Run 2	-0.0058 ppm	3.6817 ppm	0.0137 ppm	0.0461 ppm	12.7850 ppm	0.0119 ppm	0.3699 ppm
Concentration per Run 3	-0.0058 ppm	3.6347 ppm	0.0130 ppm	0.0457 ppm	12.5835 ppm	0.0130 ppm	0.3622 ppm
Concentration RSD	17.6 %	0.7 %	7.1 %	0.8 %	0.8 %	17.8 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6591 ppm	109.8321 %	109.3747 %	101.6148 %	123.0354 %	122.1799 %	120.2222 %
Concentration per Run 1	0.6620 ppm	109.6978 %	109.9122 %	103.3939 %	123.2900 %	122.8957 %	122.6319 %
Concentration per Run 2	0.6624 ppm	109.1409 %	109.2617 %	103.6709 %	122.2863 %	122.2715 %	122.7657 %
Concentration per Run 3	0.6529 ppm	110.6576 %	108.9504 %	97.7797 %	123.5298 %	121.3726 %	115.2690 %
Concentration RSD	0.8 %	0.7 %	0.4 %	3.3 %	0.5 %	0.6 %	3.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-05d2 WG1935273
Analysis started at: 6/18/2024 7:36:58 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	168.2604 ppm	0.0683 ppm	0.0043 ppm	1.4861 ppm	0.0042 ppm	11.2061 ppm
Concentration per Run 1	0.0066 ppm	168.3723 ppm	0.0679 ppm	0.0044 ppm	1.4874 ppm	0.0041 ppm	11.1918 ppm
Concentration per Run 2	0.0068 ppm	168.6084 ppm	0.0685 ppm	0.0048 ppm	1.4810 ppm	0.0044 ppm	11.2782 ppm
Concentration per Run 3	0.0070 ppm	167.8006 ppm	0.0686 ppm	0.0038 ppm	1.4898 ppm	0.0042 ppm	11.1483 ppm
Concentration RSD	2.8 %	0.2 %	0.5 %	11.3 %	0.3 %	3.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0065 ppm	0.1028 ppm	0.3084 ppm	0.2030 ppm	275.2883 ppm	52.6350 ppm	0.1792 ppm
Concentration per Run 1	-0.0065 ppm	0.1035 ppm	0.3061 ppm	0.2028 ppm	274.1823 ppm	52.9058 ppm	0.1803 ppm
Concentration per Run 2	-0.0063 ppm	0.1026 ppm	0.3094 ppm	0.2023 ppm	276.4489 ppm	52.3928 ppm	0.1796 ppm
Concentration per Run 3	-0.0067 ppm	0.1022 ppm	0.3095 ppm	0.2040 ppm	275.2338 ppm	52.6063 ppm	0.1776 ppm
Concentration RSD	3.1 %	0.6 %	0.6 %	0.4 %	0.4 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.5663 ppm	4.3044 ppm	-0.0026 ppm	0.5877 ppm	0.1937 ppm	0.3002 ppm	-0.0068 ppm
Concentration per Run 1	54.4865 ppm	4.2860 ppm	-0.0028 ppm	0.5937 ppm	0.1939 ppm	0.3050 ppm	-0.0093 ppm
Concentration per Run 2	54.6450 ppm	4.3078 ppm	-0.0026 ppm	0.5874 ppm	0.1938 ppm	0.3022 ppm	-0.0080 ppm
Concentration per Run 3	54.5675 ppm	4.3193 ppm	-0.0023 ppm	0.5820 ppm	0.1933 ppm	0.2935 ppm	-0.0031 ppm
Concentration RSD	0.1 %	0.4 %	9.0 %	1.0 %	0.2 %	2.0 %	48.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0078 ppm	3.0149 ppm	0.0179 ppm	0.0617 ppm	15.9502 ppm	0.0176 ppm	0.4371 ppm
Concentration per Run 1	-0.0100 ppm	2.9974 ppm	0.0185 ppm	0.0618 ppm	15.8848 ppm	0.0186 ppm	0.4357 ppm
Concentration per Run 2	-0.0045 ppm	3.0144 ppm	0.0164 ppm	0.0616 ppm	16.0027 ppm	0.0157 ppm	0.4365 ppm
Concentration per Run 3	-0.0090 ppm	3.0329 ppm	0.0187 ppm	0.0617 ppm	15.9632 ppm	0.0185 ppm	0.4390 ppm
Concentration RSD	37.7 %	0.6 %	7.1 %	0.2 %	0.4 %	9.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8024 ppm	110.0713 %	110.2029 %	103.4256 %	116.3118 %	116.5374 %	115.2194 %
Concentration per Run 1	0.8014 ppm	110.3782 %	111.2682 %	102.4683 %	116.4104 %	118.0104 %	114.4871 %
Concentration per Run 2	0.8027 ppm	110.0494 %	109.0775 %	104.3599 %	116.2407 %	115.6256 %	116.4606 %
Concentration per Run 3	0.8031 ppm	109.7864 %	110.2632 %	103.4487 %	116.2843 %	115.9763 %	114.7104 %
Concentration RSD	0.1 %	0.3 %	1.0 %	0.9 %	0.1 %	1.1 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-06d2 WG1935273
Analysis started at: 6/18/2024 7:40:26 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0067 ppm	188.4409 ppm	0.0831 ppm	0.0013 ppm	1.7000 ppm	0.0051 ppm	6.2869 ppm
Concentration per Run 1	0.0073 ppm	187.0093 ppm	0.0817 ppm	0.0026 ppm	1.6847 ppm	0.0052 ppm	6.2466 ppm
Concentration per Run 2	0.0063 ppm	189.7774 ppm	0.0839 ppm	-0.0001 ppm	1.7131 ppm	0.0051 ppm	6.3157 ppm
Concentration per Run 3	0.0066 ppm	188.5360 ppm	0.0837 ppm	0.0013 ppm	1.7022 ppm	0.0052 ppm	6.2984 ppm
Concentration RSD	7.3 %	0.7 %	1.5 %	105.4 %	0.8 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0083 ppm	0.1157 ppm	0.3277 ppm	0.2553 ppm	299.0541 ppm	58.2474 ppm	0.1932 ppm
Concentration per Run 1	-0.0080 ppm	0.1164 ppm	0.3285 ppm	0.2547 ppm	296.5928 ppm	57.4782 ppm	0.1927 ppm
Concentration per Run 2	-0.0086 ppm	0.1141 ppm	0.3270 ppm	0.2549 ppm	300.7173 ppm	58.7809 ppm	0.1943 ppm
Concentration per Run 3	-0.0083 ppm	0.1166 ppm	0.3277 ppm	0.2564 ppm	299.8521 ppm	58.4830 ppm	0.1925 ppm
Concentration RSD	3.4 %	1.2 %	0.2 %	0.4 %	0.7 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.9743 ppm	4.9701 ppm	-0.0023 ppm	0.5127 ppm	0.2138 ppm	0.3332 ppm	-0.0070 ppm
Concentration per Run 1	59.1313 ppm	4.9359 ppm	-0.0021 ppm	0.5070 ppm	0.2143 ppm	0.3321 ppm	-0.0073 ppm
Concentration per Run 2	58.8448 ppm	4.9847 ppm	-0.0026 ppm	0.5189 ppm	0.2130 ppm	0.3343 ppm	-0.0067 ppm
Concentration per Run 3	58.9468 ppm	4.9898 ppm	-0.0024 ppm	0.5122 ppm	0.2142 ppm	0.3333 ppm	-0.0071 ppm
Concentration RSD	0.2 %	0.6 %	10.7 %	1.2 %	0.3 %	0.3 %	4.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0061 ppm	3.1349 ppm	0.0200 ppm	0.0438 ppm	19.6686 ppm	0.0190 ppm	0.4902 ppm
Concentration per Run 1	-0.0047 ppm	3.1861 ppm	0.0213 ppm	0.0434 ppm	19.7129 ppm	0.0193 ppm	0.4898 ppm
Concentration per Run 2	-0.0067 ppm	3.0598 ppm	0.0195 ppm	0.0443 ppm	19.6469 ppm	0.0195 ppm	0.4884 ppm
Concentration per Run 3	-0.0070 ppm	3.1589 ppm	0.0194 ppm	0.0437 ppm	19.6459 ppm	0.0183 ppm	0.4923 ppm
Concentration RSD	20.6 %	2.1 %	5.5 %	1.0 %	0.2 %	3.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9721 ppm	109.8301 %	112.5666 %	105.2458 %	117.2409 %	119.1409 %	117.7746 %
Concentration per Run 1	0.9714 ppm	110.8161 %	113.1150 %	105.7199 %	118.2636 %	119.4788 %	117.8124 %
Concentration per Run 2	0.9756 ppm	109.4209 %	111.9302 %	104.4784 %	116.6942 %	118.8502 %	116.8888 %
Concentration per Run 3	0.9692 ppm	109.2534 %	112.6546 %	105.5390 %	116.7649 %	119.0937 %	118.6226 %
Concentration RSD	0.3 %	0.8 %	0.5 %	0.6 %	0.8 %	0.3 %	0.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-09d2 WG1935273
Analysis started at: 6/18/2024 7:43:54 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0058 ppm	173.7532 ppm	0.0713 ppm	0.0087 ppm	1.3708 ppm	0.0064 ppm	14.5252 ppm
Concentration per Run 1	0.0060 ppm	172.3957 ppm	0.0687 ppm	0.0089 ppm	1.3627 ppm	0.0063 ppm	14.4106 ppm
Concentration per Run 2	0.0057 ppm	175.0502 ppm	0.0712 ppm	0.0082 ppm	1.3773 ppm	0.0064 ppm	14.6058 ppm
Concentration per Run 3	0.0056 ppm	173.8139 ppm	0.0741 ppm	0.0089 ppm	1.3725 ppm	0.0065 ppm	14.5593 ppm
Concentration RSD	3.7 %	0.8 %	3.8 %	4.7 %	0.5 %	2.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0047 ppm	0.0899 ppm	0.2447 ppm	0.1884 ppm	220.4647 ppm	13.2165 ppm	0.1495 ppm
Concentration per Run 1	-0.0046 ppm	0.0916 ppm	0.2473 ppm	0.1900 ppm	218.2832 ppm	13.1916 ppm	0.1486 ppm
Concentration per Run 2	-0.0047 ppm	0.0893 ppm	0.2445 ppm	0.1888 ppm	221.6705 ppm	13.2823 ppm	0.1513 ppm
Concentration per Run 3	-0.0049 ppm	0.0887 ppm	0.2424 ppm	0.1863 ppm	221.4403 ppm	13.1757 ppm	0.1485 ppm
Concentration RSD	2.4 %	1.7 %	1.0 %	1.0 %	0.9 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.9133 ppm	6.7118 ppm	-0.0006 ppm	0.3542 ppm	0.1809 ppm	0.3104 ppm	-0.0054 ppm
Concentration per Run 1	42.4545 ppm	6.6536 ppm	-0.0006 ppm	0.3493 ppm	0.1832 ppm	0.3101 ppm	-0.0085 ppm
Concentration per Run 2	41.9429 ppm	6.7571 ppm	-0.0005 ppm	0.3509 ppm	0.1799 ppm	0.3112 ppm	-0.0059 ppm
Concentration per Run 3	41.3425 ppm	6.7248 ppm	-0.0007 ppm	0.3624 ppm	0.1795 ppm	0.3098 ppm	-0.0017 ppm
Concentration RSD	1.3 %	0.8 %	16.2 %	2.0 %	1.1 %	0.2 %	63.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0073 ppm	4.3362 ppm	0.0147 ppm	0.0770 ppm	6.7105 ppm	0.0091 ppm	0.3368 ppm
Concentration per Run 1	-0.0046 ppm	4.3950 ppm	0.0150 ppm	0.0765 ppm	6.8034 ppm	0.0080 ppm	0.3391 ppm
Concentration per Run 2	-0.0105 ppm	4.3464 ppm	0.0148 ppm	0.0772 ppm	6.7055 ppm	0.0102 ppm	0.3381 ppm
Concentration per Run 3	-0.0069 ppm	4.2672 ppm	0.0142 ppm	0.0772 ppm	6.6226 ppm	0.0090 ppm	0.3330 ppm
Concentration RSD	40.9 %	1.5 %	2.8 %	0.6 %	1.3 %	11.8 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7374 ppm	109.4585 %	108.3263 %	100.7054 %	142.3680 %	140.3558 %	140.6006 %
Concentration per Run 1	0.7432 ppm	108.4301 %	109.2953 %	99.9149 %	141.4314 %	140.7759 %	139.7399 %
Concentration per Run 2	0.7382 ppm	109.8547 %	107.8283 %	101.9152 %	142.1123 %	140.3807 %	142.0736 %
Concentration per Run 3	0.7308 ppm	110.0905 %	107.8553 %	100.2860 %	143.5602 %	139.9110 %	139.9884 %
Concentration RSD	0.8 %	0.8 %	0.8 %	1.1 %	0.8 %	0.3 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-10d2 WG1935273
Analysis started at: 6/18/2024 7:47:23 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0046 ppm	137.0612 ppm	0.0354 ppm	0.0052 ppm	0.9433 ppm	0.0044 ppm	9.3170 ppm
Concentration per Run 1	0.0040 ppm	136.5312 ppm	0.0319 ppm	0.0067 ppm	0.9427 ppm	0.0044 ppm	9.2953 ppm
Concentration per Run 2	0.0048 ppm	136.9756 ppm	0.0388 ppm	0.0043 ppm	0.9440 ppm	0.0045 ppm	9.3310 ppm
Concentration per Run 3	0.0050 ppm	137.6768 ppm	0.0354 ppm	0.0046 ppm	0.9431 ppm	0.0044 ppm	9.3247 ppm
Concentration RSD	11.8 %	0.4 %	9.8 %	24.5 %	0.1 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0048 ppm	0.0789 ppm	0.1908 ppm	0.1265 ppm	187.6681 ppm	17.3542 ppm	0.1280 ppm
Concentration per Run 1	-0.0047 ppm	0.0793 ppm	0.1916 ppm	0.1261 ppm	187.1469 ppm	17.2957 ppm	0.1290 ppm
Concentration per Run 2	-0.0048 ppm	0.0785 ppm	0.1904 ppm	0.1272 ppm	187.5193 ppm	17.4281 ppm	0.1282 ppm
Concentration per Run 3	-0.0049 ppm	0.0791 ppm	0.1902 ppm	0.1263 ppm	188.3380 ppm	17.3389 ppm	0.1270 ppm
Concentration RSD	1.8 %	0.6 %	0.4 %	0.4 %	0.3 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.1055 ppm	3.6877 ppm	-0.0018 ppm	0.4251 ppm	0.1460 ppm	0.1321 ppm	-0.0036 ppm
Concentration per Run 1	37.3901 ppm	3.6948 ppm	-0.0016 ppm	0.4192 ppm	0.1487 ppm	0.1319 ppm	-0.0031 ppm
Concentration per Run 2	36.9385 ppm	3.6812 ppm	-0.0019 ppm	0.4269 ppm	0.1441 ppm	0.1330 ppm	-0.0026 ppm
Concentration per Run 3	36.9878 ppm	3.6872 ppm	-0.0019 ppm	0.4292 ppm	0.1453 ppm	0.1315 ppm	-0.0050 ppm
Concentration RSD	0.7 %	0.2 %	9.0 %	1.2 %	1.6 %	0.6 %	35.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0034 ppm	3.9900 ppm	0.0093 ppm	0.0554 ppm	7.6155 ppm	0.0088 ppm	0.2792 ppm
Concentration per Run 1	-0.0062 ppm	4.0417 ppm	0.0086 ppm	0.0555 ppm	7.6506 ppm	0.0073 ppm	0.2810 ppm
Concentration per Run 2	-0.0038 ppm	3.9845 ppm	0.0090 ppm	0.0553 ppm	7.5926 ppm	0.0100 ppm	0.2781 ppm
Concentration per Run 3	-0.0004 ppm	3.9437 ppm	0.0103 ppm	0.0554 ppm	7.6033 ppm	0.0092 ppm	0.2784 ppm
Concentration RSD	84.0 %	1.2 %	9.3 %	0.2 %	0.4 %	15.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4757 ppm	110.3591 %	107.8869 %	103.9190 %	125.1652 %	121.7069 %	124.9714 %
Concentration per Run 1	0.4804 ppm	110.0349 %	107.7371 %	104.5132 %	124.4655 %	120.5498 %	125.9799 %
Concentration per Run 2	0.4721 ppm	111.9275 %	108.1906 %	103.0951 %	127.1062 %	122.3611 %	123.9881 %
Concentration per Run 3	0.4746 ppm	109.1148 %	107.7330 %	104.1486 %	123.9238 %	122.2097 %	124.9462 %
Concentration RSD	0.9 %	1.3 %	0.2 %	0.7 %	1.4 %	0.8 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-13d2 WG1935273
Analysis started at: 6/18/2024 7:50:52 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	168.8929 ppm	0.6238 ppm	0.0058 ppm	1.4331 ppm	0.0075 ppm	8.5121 ppm
Concentration per Run 1	0.0052 ppm	169.7021 ppm	0.6312 ppm	0.0061 ppm	1.4383 ppm	0.0076 ppm	8.5514 ppm
Concentration per Run 2	0.0059 ppm	169.1503 ppm	0.6165 ppm	0.0064 ppm	1.4380 ppm	0.0075 ppm	8.5162 ppm
Concentration per Run 3	0.0053 ppm	167.8262 ppm	0.6238 ppm	0.0049 ppm	1.4230 ppm	0.0074 ppm	8.4686 ppm
Concentration RSD	7.5 %	0.6 %	1.2 %	13.5 %	0.6 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0029 ppm	0.0814 ppm	0.2806 ppm	0.2954 ppm	174.7421 ppm	12.0354 ppm	0.1191 ppm
Concentration per Run 1	-0.0029 ppm	0.0808 ppm	0.2798 ppm	0.2946 ppm	175.5476 ppm	12.0688 ppm	0.1208 ppm
Concentration per Run 2	-0.0028 ppm	0.0831 ppm	0.2829 ppm	0.2955 ppm	174.9769 ppm	12.0899 ppm	0.1188 ppm
Concentration per Run 3	-0.0031 ppm	0.0803 ppm	0.2792 ppm	0.2960 ppm	173.7020 ppm	11.9476 ppm	0.1175 ppm
Concentration RSD	5.2 %	1.8 %	0.7 %	0.2 %	0.5 %	0.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.0372 ppm	9.7060 ppm	-0.0006 ppm	0.3887 ppm	0.1702 ppm	2.1080 ppm	-0.0027 ppm
Concentration per Run 1	36.0401 ppm	9.7221 ppm	-0.0008 ppm	0.3946 ppm	0.1690 ppm	2.1221 ppm	-0.0047 ppm
Concentration per Run 2	36.1218 ppm	9.6898 ppm	-0.0007 ppm	0.3909 ppm	0.1713 ppm	2.0989 ppm	0.0010 ppm
Concentration per Run 3	35.9498 ppm	9.7061 ppm	-0.0004 ppm	0.3805 ppm	0.1703 ppm	2.1029 ppm	-0.0044 ppm
Concentration RSD	0.2 %	0.2 %	32.9 %	1.9 %	0.7 %	0.6 %	119.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	3.8633 ppm	0.0206 ppm	0.0732 ppm	5.5221 ppm	0.0067 ppm	0.3032 ppm
Concentration per Run 1	-0.0027 ppm	3.8583 ppm	0.0211 ppm	0.0737 ppm	5.5068 ppm	0.0074 ppm	0.3025 ppm
Concentration per Run 2	0.0023 ppm	3.8661 ppm	0.0202 ppm	0.0732 ppm	5.5531 ppm	0.0034 ppm	0.3033 ppm
Concentration per Run 3	-0.0032 ppm	3.8656 ppm	0.0204 ppm	0.0728 ppm	5.5064 ppm	0.0093 ppm	0.3038 ppm
Concentration RSD	249.9 %	0.1 %	2.5 %	0.6 %	0.5 %	45.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7423 ppm	107.1329 %	109.2847 %	100.7364 %	162.4451 %	165.0168 %	163.1136 %
Concentration per Run 1	0.7438 ppm	107.2478 %	108.3851 %	100.6542 %	162.5698 %	164.0670 %	163.5999 %
Concentration per Run 2	0.7413 ppm	105.8498 %	109.4524 %	100.8564 %	160.4954 %	165.5463 %	162.7473 %
Concentration per Run 3	0.7418 ppm	108.3012 %	110.0165 %	100.6984 %	164.2701 %	165.4370 %	162.9936 %
Concentration RSD	0.2 %	1.1 %	0.8 %	0.1 %	1.2 %	0.5 %	0.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-14d2 WG1935273
Analysis started at: 6/18/2024 7:54:21 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0048 ppm	171.3192 ppm	0.0272 ppm	0.0022 ppm	1.0118 ppm	0.0053 ppm	7.3027 ppm
Concentration per Run 1	0.0050 ppm	172.1404 ppm	0.0288 ppm	0.0035 ppm	1.0188 ppm	0.0055 ppm	7.3387 ppm
Concentration per Run 2	0.0049 ppm	171.0440 ppm	0.0265 ppm	0.0025 ppm	1.0096 ppm	0.0053 ppm	7.3016 ppm
Concentration per Run 3	0.0044 ppm	170.7732 ppm	0.0265 ppm	0.0005 ppm	1.0068 ppm	0.0052 ppm	7.2679 ppm
Concentration RSD	6.1 %	0.4 %	4.8 %	71.3 %	0.6 %	2.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0077 ppm	0.1155 ppm	0.2942 ppm	0.3056 ppm	252.6966 ppm	38.7039 ppm	0.1735 ppm
Concentration per Run 1	-0.0077 ppm	0.1154 ppm	0.2930 ppm	0.3086 ppm	254.0153 ppm	39.0858 ppm	0.1744 ppm
Concentration per Run 2	-0.0077 ppm	0.1163 ppm	0.2959 ppm	0.3058 ppm	252.5155 ppm	38.4976 ppm	0.1732 ppm
Concentration per Run 3	-0.0077 ppm	0.1147 ppm	0.2936 ppm	0.3023 ppm	251.5591 ppm	38.5283 ppm	0.1729 ppm
Concentration RSD	0.3 %	0.7 %	0.5 %	1.0 %	0.5 %	0.9 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.6335 ppm	4.1853 ppm	-0.0008 ppm	0.6032 ppm	0.2215 ppm	0.0578 ppm	-0.0061 ppm
Concentration per Run 1	64.6757 ppm	4.1932 ppm	-0.0006 ppm	0.6080 ppm	0.2218 ppm	0.0597 ppm	-0.0058 ppm
Concentration per Run 2	64.9270 ppm	4.1992 ppm	-0.0010 ppm	0.6050 ppm	0.2232 ppm	0.0577 ppm	-0.0058 ppm
Concentration per Run 3	64.2977 ppm	4.1635 ppm	-0.0008 ppm	0.5965 ppm	0.2195 ppm	0.0560 ppm	-0.0066 ppm
Concentration RSD	0.5 %	0.5 %	29.3 %	1.0 %	0.8 %	3.2 %	8.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0071 ppm	6.2052 ppm	0.0117 ppm	0.0749 ppm	13.4018 ppm	0.0141 ppm	0.4177 ppm
Concentration per Run 1	-0.0065 ppm	6.2535 ppm	0.0117 ppm	0.0752 ppm	13.3761 ppm	0.0136 ppm	0.4200 ppm
Concentration per Run 2	-0.0078 ppm	6.2200 ppm	0.0111 ppm	0.0747 ppm	13.4893 ppm	0.0140 ppm	0.4189 ppm
Concentration per Run 3	-0.0069 ppm	6.1421 ppm	0.0123 ppm	0.0747 ppm	13.3399 ppm	0.0146 ppm	0.4141 ppm
Concentration RSD	9.4 %	0.9 %	5.2 %	0.4 %	0.6 %	3.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5080 ppm	111.9897 %	111.6995 %	105.2375 %	127.1353 %	125.0086 %	125.9876 %
Concentration per Run 1	0.5065 ppm	112.1673 %	109.5241 %	104.4084 %	128.6267 %	123.2743 %	125.4244 %
Concentration per Run 2	0.5118 ppm	111.4939 %	111.8204 %	103.3285 %	125.7082 %	124.9292 %	124.2946 %
Concentration per Run 3	0.5057 ppm	112.3079 %	113.7541 %	107.9757 %	127.0710 %	126.8223 %	128.2439 %
Concentration RSD	0.7 %	0.4 %	1.9 %	2.3 %	1.1 %	1.4 %	1.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-17d2 WG1935273
Analysis started at: 6/18/2024 7:57:51 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	173.2315 ppm	0.1107 ppm	0.0037 ppm	1.2856 ppm	0.0065 ppm	6.6910 ppm
Concentration per Run 1	0.0054 ppm	172.6185 ppm	0.1122 ppm	0.0032 ppm	1.2782 ppm	0.0065 ppm	6.6607 ppm
Concentration per Run 2	0.0052 ppm	173.3734 ppm	0.1083 ppm	0.0043 ppm	1.2837 ppm	0.0066 ppm	6.7077 ppm
Concentration per Run 3	0.0059 ppm	173.7026 ppm	0.1115 ppm	0.0036 ppm	1.2949 ppm	0.0066 ppm	6.7047 ppm
Concentration RSD	6.5 %	0.3 %	1.9 %	13.9 %	0.7 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0049 ppm	0.0816 ppm	0.2369 ppm	0.1862 ppm	198.1001 ppm	11.2710 ppm	0.1401 ppm
Concentration per Run 1	-0.0048 ppm	0.0815 ppm	0.2366 ppm	0.1846 ppm	197.0758 ppm	11.1415 ppm	0.1403 ppm
Concentration per Run 2	-0.0048 ppm	0.0805 ppm	0.2385 ppm	0.1872 ppm	197.6381 ppm	11.2650 ppm	0.1397 ppm
Concentration per Run 3	-0.0052 ppm	0.0826 ppm	0.2357 ppm	0.1867 ppm	199.5864 ppm	11.4065 ppm	0.1404 ppm
Concentration RSD	5.2 %	1.3 %	0.6 %	0.8 %	0.7 %	1.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.5873 ppm	6.0993 ppm	-0.0008 ppm	0.3230 ppm	0.1687 ppm	0.2000 ppm	-0.0018 ppm
Concentration per Run 1	41.3801 ppm	6.0607 ppm	-0.0013 ppm	0.3171 ppm	0.1689 ppm	0.1989 ppm	-0.0029 ppm
Concentration per Run 2	41.9143 ppm	6.0865 ppm	-0.0007 ppm	0.3237 ppm	0.1698 ppm	0.1975 ppm	-0.0012 ppm
Concentration per Run 3	41.4676 ppm	6.1507 ppm	-0.0005 ppm	0.3283 ppm	0.1674 ppm	0.2035 ppm	-0.0015 ppm
Concentration RSD	0.7 %	0.8 %	45.2 %	1.7 %	0.7 %	1.6 %	50.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0050 ppm	3.7401 ppm	0.0125 ppm	0.0581 ppm	7.7734 ppm	0.0081 ppm	0.3180 ppm
Concentration per Run 1	-0.0041 ppm	3.7572 ppm	0.0120 ppm	0.0580 ppm	7.7432 ppm	0.0087 ppm	0.3165 ppm
Concentration per Run 2	-0.0058 ppm	3.7178 ppm	0.0133 ppm	0.0582 ppm	7.8438 ppm	0.0084 ppm	0.3211 ppm
Concentration per Run 3	-0.0053 ppm	3.7455 ppm	0.0123 ppm	0.0582 ppm	7.7334 ppm	0.0074 ppm	0.3165 ppm
Concentration RSD	17.6 %	0.5 %	5.3 %	0.2 %	0.8 %	8.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6193 ppm	106.9321 %	108.1800 %	100.3493 %	144.8247 %	145.8208 %	144.6633 %
Concentration per Run 1	0.6184 ppm	107.6470 %	108.7503 %	100.5388 %	145.1245 %	146.2474 %	145.2141 %
Concentration per Run 2	0.6218 ppm	107.6233 %	108.7308 %	101.9952 %	145.6180 %	147.1797 %	146.3488 %
Concentration per Run 3	0.6175 ppm	105.5260 %	107.0588 %	98.5138 %	143.7317 %	144.0354 %	142.4270 %
Concentration RSD	0.4 %	1.1 %	0.9 %	1.7 %	0.7 %	1.1 %	1.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-18d2 WG1935273
Analysis started at: 6/18/2024 8:01:21 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	198.0893 ppm	0.0555 ppm	0.0020 ppm	1.2481 ppm	0.0067 ppm	6.6250 ppm
Concentration per Run 1	0.0056 ppm	197.7926 ppm	0.0558 ppm	0.0026 ppm	1.2362 ppm	0.0066 ppm	6.6350 ppm
Concentration per Run 2	0.0055 ppm	197.7689 ppm	0.0532 ppm	0.0030 ppm	1.2600 ppm	0.0067 ppm	6.6043 ppm
Concentration per Run 3	0.0053 ppm	198.7064 ppm	0.0574 ppm	0.0005 ppm	1.2480 ppm	0.0067 ppm	6.6357 ppm
Concentration RSD	2.6 %	0.3 %	3.9 %	67.6 %	1.0 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0076 ppm	0.1074 ppm	0.2940 ppm	0.2205 ppm	255.1676 ppm	18.2430 ppm	0.1883 ppm
Concentration per Run 1	-0.0076 ppm	0.1078 ppm	0.2942 ppm	0.2211 ppm	253.2040 ppm	18.0795 ppm	0.1877 ppm
Concentration per Run 2	-0.0074 ppm	0.1073 ppm	0.2912 ppm	0.2187 ppm	256.7360 ppm	18.3114 ppm	0.1875 ppm
Concentration per Run 3	-0.0076 ppm	0.1071 ppm	0.2965 ppm	0.2217 ppm	255.5629 ppm	18.3380 ppm	0.1897 ppm
Concentration RSD	1.4 %	0.3 %	0.9 %	0.7 %	0.7 %	0.8 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.7442 ppm	4.5861 ppm	-0.0007 ppm	0.4195 ppm	0.2029 ppm	0.1214 ppm	-0.0064 ppm
Concentration per Run 1	55.7101 ppm	4.5889 ppm	-0.0006 ppm	0.4257 ppm	0.2004 ppm	0.1205 ppm	-0.0087 ppm
Concentration per Run 2	55.4836 ppm	4.5738 ppm	-0.0004 ppm	0.4137 ppm	0.2043 ppm	0.1204 ppm	-0.0050 ppm
Concentration per Run 3	56.0389 ppm	4.5955 ppm	-0.0011 ppm	0.4190 ppm	0.2039 ppm	0.1234 ppm	-0.0054 ppm
Concentration RSD	0.5 %	0.2 %	51.5 %	1.4 %	1.1 %	1.4 %	31.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	4.4136 ppm	0.0119 ppm	0.0737 ppm	11.3048 ppm	0.0127 ppm	0.4090 ppm
Concentration per Run 1	0.0000 ppm	4.3989 ppm	0.0122 ppm	0.0734 ppm	11.2801 ppm	0.0131 ppm	0.4075 ppm
Concentration per Run 2	-0.0056 ppm	4.3788 ppm	0.0113 ppm	0.0739 ppm	11.2441 ppm	0.0117 ppm	0.4084 ppm
Concentration per Run 3	-0.0099 ppm	4.4631 ppm	0.0121 ppm	0.0737 ppm	11.3902 ppm	0.0133 ppm	0.4110 ppm
Concentration RSD	95.9 %	1.0 %	4.1 %	0.3 %	0.7 %	7.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6144 ppm	108.1159 %	108.3037 %	101.6608 %	129.3589 %	128.4807 %	130.4895 %
Concentration per Run 1	0.6141 ppm	107.8461 %	108.4385 %	102.3998 %	129.0235 %	129.1857 %	131.7194 %
Concentration per Run 2	0.6108 ppm	108.3711 %	107.6015 %	101.2999 %	129.7091 %	127.2090 %	129.8949 %
Concentration per Run 3	0.6183 ppm	108.1306 %	108.8711 %	101.2827 %	129.3440 %	129.0473 %	129.8543 %
Concentration RSD	0.6 %	0.2 %	0.6 %	0.6 %	0.3 %	0.9 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-21d2 WG1935273
Analysis started at: 6/18/2024 8:04:51 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0041 ppm	151.8989 ppm	0.2819 ppm	0.0041 ppm	1.1896 ppm	0.0060 ppm	5.3833 ppm
Concentration per Run 1	0.0039 ppm	151.2703 ppm	0.2857 ppm	0.0058 ppm	1.1816 ppm	0.0060 ppm	5.3612 ppm
Concentration per Run 2	0.0040 ppm	152.0352 ppm	0.2838 ppm	0.0039 ppm	1.1934 ppm	0.0060 ppm	5.3754 ppm
Concentration per Run 3	0.0046 ppm	152.3911 ppm	0.2762 ppm	0.0028 ppm	1.1938 ppm	0.0060 ppm	5.4133 ppm
Concentration RSD	9.4 %	0.4 %	1.8 %	35.8 %	0.6 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0039 ppm	0.0739 ppm	0.2393 ppm	0.1510 ppm	173.2433 ppm	9.1060 ppm	0.1218 ppm
Concentration per Run 1	-0.0037 ppm	0.0737 ppm	0.2391 ppm	0.1501 ppm	172.3577 ppm	8.9946 ppm	0.1209 ppm
Concentration per Run 2	-0.0040 ppm	0.0733 ppm	0.2389 ppm	0.1507 ppm	173.6858 ppm	9.1603 ppm	0.1219 ppm
Concentration per Run 3	-0.0039 ppm	0.0747 ppm	0.2398 ppm	0.1521 ppm	173.6865 ppm	9.1629 ppm	0.1225 ppm
Concentration RSD	3.2 %	1.0 %	0.2 %	0.7 %	0.4 %	1.1 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.3926 ppm	5.5883 ppm	-0.0015 ppm	0.2913 ppm	0.1503 ppm	0.9077 ppm	-0.0066 ppm
Concentration per Run 1	34.2995 ppm	5.5524 ppm	-0.0023 ppm	0.2868 ppm	0.1504 ppm	0.9179 ppm	-0.0072 ppm
Concentration per Run 2	34.2844 ppm	5.6026 ppm	-0.0012 ppm	0.2932 ppm	0.1502 ppm	0.9129 ppm	-0.0083 ppm
Concentration per Run 3	34.5941 ppm	5.6101 ppm	-0.0011 ppm	0.2938 ppm	0.1502 ppm	0.8923 ppm	-0.0042 ppm
Concentration RSD	0.5 %	0.6 %	45.5 %	1.3 %	0.1 %	1.5 %	32.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0057 ppm	4.8836 ppm	0.0120 ppm	0.0491 ppm	7.0328 ppm	0.0082 ppm	0.2954 ppm
Concentration per Run 1	-0.0056 ppm	4.8783 ppm	0.0118 ppm	0.0490 ppm	7.0204 ppm	0.0097 ppm	0.2940 ppm
Concentration per Run 2	-0.0056 ppm	4.8517 ppm	0.0127 ppm	0.0491 ppm	7.0231 ppm	0.0078 ppm	0.2953 ppm
Concentration per Run 3	-0.0059 ppm	4.9210 ppm	0.0114 ppm	0.0490 ppm	7.0549 ppm	0.0071 ppm	0.2968 ppm
Concentration RSD	3.2 %	0.7 %	5.2 %	0.1 %	0.3 %	16.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5452 ppm	106.3846 %	106.7024 %	99.7965 %	141.1091 %	139.5169 %	139.9627 %
Concentration per Run 1	0.5440 ppm	106.7509 %	107.7640 %	99.3760 %	141.9051 %	141.1323 %	139.6920 %
Concentration per Run 2	0.5449 ppm	106.9661 %	105.7999 %	99.0986 %	142.2863 %	137.9564 %	139.2963 %
Concentration per Run 3	0.5468 ppm	105.4368 %	106.5435 %	100.9149 %	139.1359 %	139.4619 %	140.9000 %
Concentration RSD	0.3 %	0.8 %	0.9 %	1.0 %	1.2 %	1.1 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:08:18 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4944 ppm	0.4982 ppm	0.4739 ppm	0.4895 ppm	0.4908 ppm	0.5025 ppm	0.4720 ppm
Concentration per Run 1	0.4917 ppm	0.5041 ppm	0.4775 ppm	0.4895 ppm	0.4946 ppm	0.5051 ppm	0.4757 ppm
Concentration per Run 2	0.4976 ppm	0.4918 ppm	0.4713 ppm	0.4915 ppm	0.4874 ppm	0.4996 ppm	0.4718 ppm
Concentration per Run 3	0.4938 ppm	0.4987 ppm	0.4728 ppm	0.4874 ppm	0.4905 ppm	0.5027 ppm	0.4685 ppm
Recovery Percentage 1	98.878 %	99.642 %	94.771 %	97.891 %	98.166 %	100.495 %	94.395 %
Concentration RSD	0.6 %	1.2 %	0.7 %	0.4 %	0.7 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4852 ppm	0.4965 ppm	0.4832 ppm	0.4890 ppm	0.4986 ppm	5.0224 ppm	0.4863 ppm
Concentration per Run 1	0.4787 ppm	0.4891 ppm	0.4811 ppm	0.4859 ppm	0.4998 ppm	5.0587 ppm	0.4883 ppm
Concentration per Run 2	0.4893 ppm	0.5000 ppm	0.4865 ppm	0.4915 ppm	0.4955 ppm	4.9906 ppm	0.4857 ppm
Concentration per Run 3	0.4877 ppm	0.5003 ppm	0.4821 ppm	0.4894 ppm	0.5006 ppm	5.0178 ppm	0.4850 ppm
Recovery Percentage 1	97.047 %	99.295 %	96.645 %	97.792 %	99.724 %	100.447 %	97.266 %
Concentration RSD	1.2 %	1.3 %	0.6 %	0.6 %	0.6 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4782 ppm	0.4767 ppm	0.4977 ppm	9.6373 ppm	0.5039 ppm	0.4958 ppm	0.5018 ppm
Concentration per Run 1	0.4771 ppm	0.4801 ppm	0.4905 ppm	9.7465 ppm	0.5011 ppm	0.5023 ppm	0.4991 ppm
Concentration per Run 2	0.4807 ppm	0.4752 ppm	0.5025 ppm	9.5504 ppm	0.5074 ppm	0.4923 ppm	0.5101 ppm
Concentration per Run 3	0.4770 ppm	0.4748 ppm	0.5001 ppm	9.6150 ppm	0.5032 ppm	0.4928 ppm	0.4964 ppm
Recovery Percentage 1	95.648 %	95.341 %	99.538 %	96.373 %	100.780 %	99.155 %	100.369 %
Concentration RSD	0.4 %	0.6 %	1.3 %	1.0 %	0.6 %	1.1 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4856 ppm	5.5394 ppm	0.5123 ppm	0.4943 ppm	0.4964 ppm	0.4977 ppm	0.4805 ppm
Concentration per Run 1	0.4868 ppm	5.4989 ppm	0.5083 ppm	0.4973 ppm	0.4944 ppm	0.5033 ppm	0.4777 ppm
Concentration per Run 2	0.4820 ppm	5.5946 ppm	0.5167 ppm	0.4928 ppm	0.4997 ppm	0.4962 ppm	0.4825 ppm
Concentration per Run 3	0.4880 ppm	5.5246 ppm	0.5120 ppm	0.4929 ppm	0.4949 ppm	0.4936 ppm	0.4813 ppm
Recovery Percentage 1	97.121 %	105.512 %	102.461 %	98.867 %	99.271 %	99.544 %	96.101 %
Concentration RSD	0.7 %	0.9 %	0.8 %	0.5 %	0.6 %	1.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4971 ppm	104.0333 %	103.2359 %	101.0690 %	103.9071 %	102.6241 %	102.1505 %
Concentration per Run 1	0.4929 ppm	104.8344 %	101.9583 %	100.5530 %	104.5025 %	101.9243 %	101.5443 %
Concentration per Run 2	0.5012 ppm	104.4418 %	104.9711 %	101.4195 %	104.1419 %	104.3113 %	102.8203 %
Concentration per Run 3	0.4971 ppm	102.8235 %	102.7784 %	101.2344 %	103.0767 %	101.6367 %	102.0870 %
Recovery Percentage 1	99.410 %						
Concentration RSD	0.8 %	1.0 %	1.5 %	0.5 %	0.7 %	1.4 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:11:47 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0210 ppm	-0.0004 ppm	0.0017 ppm	0.0003 ppm	0.0002 ppm	0.0054 ppm
Concentration per Run 1	0.0005 ppm	0.0205 ppm	0.0009 ppm	0.0045 ppm	0.0002 ppm	0.0002 ppm	0.0029 ppm
Concentration per Run 2	0.0001 ppm	0.0164 ppm	0.0007 ppm	0.0010 ppm	0.0003 ppm	0.0002 ppm	0.0055 ppm
Concentration per Run 3	0.0005 ppm	0.0261 ppm	-0.0027 ppm	-0.0005 ppm	0.0002 ppm	0.0002 ppm	0.0078 ppm
Recovery Percentage 1	5.447 %	21.000 %	-7.886 %	5.577 %	2.537 %	4.954 %	5.394 %
Concentration RSD	65.7 %	23.2 %	510.3 %	150.6 %	32.6 %	5.0 %	45.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0042 ppm	-0.0089 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0003 ppm	0.0003 ppm	0.0034 ppm	-0.0140 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0049 ppm	-0.0134 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0043 ppm	0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	3.187 %	0.565 %	-3.613 %	2.240 %	8.394 %	-0.357 %	-3.542 %
Concentration RSD	92.1 %	549.3 %	70.1 %	33.2 %	17.1 %	92.6 %	42.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0017 ppm	0.0004 ppm	-0.0004 ppm	-0.0172 ppm	-0.0007 ppm	-0.0008 ppm	-0.0009 ppm
Concentration per Run 1	-0.0009 ppm	0.0004 ppm	0.0002 ppm	-0.0153 ppm	-0.0009 ppm	-0.0004 ppm	-0.0013 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	-0.0010 ppm	-0.0250 ppm	-0.0006 ppm	-0.0007 ppm	-0.0010 ppm
Concentration per Run 3	-0.0043 ppm	0.0003 ppm	-0.0003 ppm	-0.0112 ppm	-0.0007 ppm	-0.0013 ppm	-0.0004 ppm
Recovery Percentage 1	-1.671 %	3.727 %	-0.711 %	-0.858 %	-2.984 %	-7.856 %	-1.814 %
Concentration RSD	140.5 %	14.8 %	169.9 %	41.2 %	17.8 %	53.2 %	47.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0132 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 1	-0.0008 ppm	0.0137 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0022 ppm	-0.0004 ppm
Concentration per Run 2	-0.0016 ppm	0.0154 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0028 ppm	0.0105 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	-17.547 %	2.638 %	0.046 %	2.569 %	1.812 %	3.568 %	-2.821 %
Concentration RSD	57.0 %	18.9 %	2,314.5 %	63.9 %	51.6 %	203.9 %	47.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	102.0158 %	101.6991 %	103.1758 %	104.0009 %	101.6229 %	104.5238 %
Concentration per Run 1	0.0003 ppm	98.7489 %	103.0072 %	103.4204 %	100.5828 %	103.3715 %	104.6588 %
Concentration per Run 2	0.0000 ppm	103.7513 %	101.1794 %	102.4585 %	106.3746 %	101.2051 %	103.9405 %
Concentration per Run 3	-0.0001 ppm	103.5471 %	100.9106 %	103.6485 %	105.0452 %	100.2920 %	104.9721 %
Recovery Percentage 1	1.037 %						
Concentration RSD	451.9 %	2.8 %	1.1 %	0.6 %	2.9 %	1.6 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-25d2 WG1935273
Analysis started at: 6/18/2024 8:35:03 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0064 ppm	206.6945 ppm	0.6795 ppm	0.0026 ppm	1.1598 ppm	0.0080 ppm	5.7739 ppm
Concentration per Run 1	0.0059 ppm	205.3458 ppm	0.6788 ppm	0.0045 ppm	1.1535 ppm	0.0081 ppm	5.7187 ppm
Concentration per Run 2	0.0068 ppm	206.8782 ppm	0.6860 ppm	0.0023 ppm	1.1625 ppm	0.0080 ppm	5.7904 ppm
Concentration per Run 3	0.0064 ppm	207.8595 ppm	0.6739 ppm	0.0011 ppm	1.1633 ppm	0.0080 ppm	5.8127 ppm
Concentration RSD	7.4 %	0.6 %	0.9 %	67.3 %	0.5 %	1.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0058 ppm	0.0969 ppm	0.3556 ppm	0.2111 ppm	237.0476 ppm	10.9811 ppm	0.1620 ppm
Concentration per Run 1	-0.0058 ppm	0.0951 ppm	0.3543 ppm	0.2103 ppm	235.9992 ppm	10.8986 ppm	0.1612 ppm
Concentration per Run 2	-0.0059 ppm	0.0987 ppm	0.3570 ppm	0.2114 ppm	237.8907 ppm	10.9793 ppm	0.1620 ppm
Concentration per Run 3	-0.0057 ppm	0.0970 ppm	0.3555 ppm	0.2117 ppm	237.2530 ppm	11.0654 ppm	0.1628 ppm
Concentration RSD	1.5 %	1.8 %	0.4 %	0.4 %	0.4 %	0.8 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.7410 ppm	6.9350 ppm	-0.0009 ppm	0.3556 ppm	0.1989 ppm	2.1010 ppm	-0.0064 ppm
Concentration per Run 1	43.4843 ppm	6.8858 ppm	-0.0009 ppm	0.3564 ppm	0.1984 ppm	2.1060 ppm	-0.0056 ppm
Concentration per Run 2	43.8422 ppm	6.9673 ppm	-0.0009 ppm	0.3538 ppm	0.1996 ppm	2.1090 ppm	-0.0100 ppm
Concentration per Run 3	43.8963 ppm	6.9520 ppm	-0.0008 ppm	0.3567 ppm	0.1987 ppm	2.0882 ppm	-0.0037 ppm
Concentration RSD	0.5 %	0.6 %	8.1 %	0.5 %	0.3 %	0.5 %	49.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0035 ppm	5.0881 ppm	0.0213 ppm	0.0457 ppm	6.7598 ppm	0.0073 ppm	0.3830 ppm
Concentration per Run 1	0.0002 ppm	5.0829 ppm	0.0182 ppm	0.0457 ppm	6.7403 ppm	0.0076 ppm	0.3810 ppm
Concentration per Run 2	-0.0045 ppm	5.0685 ppm	0.0245 ppm	0.0457 ppm	6.7984 ppm	0.0066 ppm	0.3844 ppm
Concentration per Run 3	-0.0060 ppm	5.1130 ppm	0.0212 ppm	0.0457 ppm	6.7406 ppm	0.0077 ppm	0.3836 ppm
Concentration RSD	92.8 %	0.4 %	14.7 %	0.0 %	0.5 %	7.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7192 ppm	104.8678 %	107.8178 %	97.3597 %	143.8007 %	147.1681 %	144.0938 %
Concentration per Run 1	0.7173 ppm	105.4662 %	108.4506 %	97.0031 %	144.4276 %	147.3056 %	143.7235 %
Concentration per Run 2	0.7209 ppm	104.2486 %	107.9176 %	96.5786 %	142.9083 %	147.5037 %	143.3072 %
Concentration per Run 3	0.7193 ppm	104.8886 %	107.0852 %	98.4975 %	144.0661 %	146.6951 %	145.2508 %
Concentration RSD	0.3 %	0.6 %	0.6 %	1.0 %	0.6 %	0.3 %	0.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-26d2 WG1935273
Analysis started at: 6/18/2024 8:38:45 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0061 ppm	179.9702 ppm	0.0837 ppm	0.0010 ppm	1.1198 ppm	0.0060 ppm	5.1789 ppm
Concentration per Run 1	0.0064 ppm	179.4249 ppm	0.0842 ppm	0.0015 ppm	1.1283 ppm	0.0059 ppm	5.1599 ppm
Concentration per Run 2	0.0060 ppm	180.1682 ppm	0.0831 ppm	0.0018 ppm	1.1114 ppm	0.0060 ppm	5.1930 ppm
Concentration per Run 3	0.0058 ppm	180.3176 ppm	0.0837 ppm	-0.0003 ppm	1.1197 ppm	0.0060 ppm	5.1838 ppm
Concentration RSD	5.3 %	0.3 %	0.7 %	116.6 %	0.8 %	0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0072 ppm	0.1035 ppm	0.2799 ppm	0.1846 ppm	245.9308 ppm	24.1840 ppm	0.1815 ppm
Concentration per Run 1	-0.0072 ppm	0.1031 ppm	0.2767 ppm	0.1835 ppm	245.7777 ppm	24.2683 ppm	0.1838 ppm
Concentration per Run 2	-0.0074 ppm	0.1039 ppm	0.2823 ppm	0.1869 ppm	245.8983 ppm	24.0939 ppm	0.1794 ppm
Concentration per Run 3	-0.0071 ppm	0.1033 ppm	0.2805 ppm	0.1832 ppm	246.1164 ppm	24.1900 ppm	0.1814 ppm
Concentration RSD	1.9 %	0.4 %	1.0 %	1.1 %	0.1 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.2743 ppm	3.9869 ppm	-0.0013 ppm	0.4446 ppm	0.2103 ppm	0.2314 ppm	-0.0098 ppm
Concentration per Run 1	50.9182 ppm	3.9817 ppm	-0.0016 ppm	0.4422 ppm	0.2080 ppm	0.2336 ppm	-0.0091 ppm
Concentration per Run 2	51.6341 ppm	3.9909 ppm	-0.0018 ppm	0.4423 ppm	0.2108 ppm	0.2293 ppm	-0.0119 ppm
Concentration per Run 3	51.2707 ppm	3.9881 ppm	-0.0006 ppm	0.4492 ppm	0.2123 ppm	0.2313 ppm	-0.0084 ppm
Concentration RSD	0.7 %	0.1 %	48.9 %	0.9 %	1.0 %	0.9 %	19.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	4.0908 ppm	0.0134 ppm	0.0451 ppm	10.7840 ppm	0.0109 ppm	0.3793 ppm
Concentration per Run 1	-0.0033 ppm	4.0790 ppm	0.0152 ppm	0.0453 ppm	10.7118 ppm	0.0088 ppm	0.3764 ppm
Concentration per Run 2	-0.0020 ppm	4.1308 ppm	0.0116 ppm	0.0452 ppm	10.8587 ppm	0.0120 ppm	0.3842 ppm
Concentration per Run 3	-0.0022 ppm	4.0624 ppm	0.0135 ppm	0.0449 ppm	10.7815 ppm	0.0118 ppm	0.3774 ppm
Concentration RSD	29.3 %	0.9 %	13.3 %	0.5 %	0.7 %	16.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5708 ppm	108.5237 %	111.1343 %	102.4604 %	126.8216 %	128.7434 %	127.8589 %
Concentration per Run 1	0.5632 ppm	109.9992 %	112.0062 %	101.4845 %	128.6969 %	128.8938 %	126.5373 %
Concentration per Run 2	0.5768 ppm	107.0823 %	110.8474 %	102.9824 %	125.4432 %	129.0155 %	128.8365 %
Concentration per Run 3	0.5723 ppm	108.4896 %	110.5493 %	102.9144 %	126.3249 %	128.3210 %	128.2031 %
Concentration RSD	1.2 %	1.3 %	0.7 %	0.8 %	1.3 %	0.3 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-29d2 WG1935273
Analysis started at: 6/18/2024 8:42:13 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0070 ppm	200.7510 ppm	0.2543 ppm	0.0012 ppm	1.0316 ppm	0.0075 ppm	6.3287 ppm
Concentration per Run 1	0.0064 ppm	201.1664 ppm	0.2535 ppm	0.0038 ppm	1.0321 ppm	0.0074 ppm	6.3502 ppm
Concentration per Run 2	0.0071 ppm	201.2899 ppm	0.2577 ppm	0.0017 ppm	1.0335 ppm	0.0076 ppm	6.3541 ppm
Concentration per Run 3	0.0075 ppm	199.7966 ppm	0.2515 ppm	-0.0018 ppm	1.0293 ppm	0.0073 ppm	6.2818 ppm
Concentration RSD	7.9 %	0.4 %	1.2 %	233.6 %	0.2 %	2.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0074 ppm	0.1235 ppm	0.3359 ppm	0.3035 ppm	270.0684 ppm	15.2512 ppm	0.2207 ppm
Concentration per Run 1	-0.0073 ppm	0.1230 ppm	0.3352 ppm	0.3029 ppm	268.9434 ppm	15.2294 ppm	0.2203 ppm
Concentration per Run 2	-0.0074 ppm	0.1252 ppm	0.3402 ppm	0.3061 ppm	272.2010 ppm	15.3206 ppm	0.2239 ppm
Concentration per Run 3	-0.0074 ppm	0.1224 ppm	0.3323 ppm	0.3014 ppm	269.0608 ppm	15.2036 ppm	0.2177 ppm
Concentration RSD	0.8 %	1.2 %	1.2 %	0.8 %	0.7 %	0.4 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.4015 ppm	5.0966 ppm	-0.0010 ppm	0.3337 ppm	0.2343 ppm	0.8682 ppm	-0.0056 ppm
Concentration per Run 1	53.3308 ppm	5.1169 ppm	-0.0010 ppm	0.3398 ppm	0.2347 ppm	0.8751 ppm	-0.0052 ppm
Concentration per Run 2	53.8473 ppm	5.0867 ppm	-0.0012 ppm	0.3326 ppm	0.2370 ppm	0.8725 ppm	-0.0082 ppm
Concentration per Run 3	53.0265 ppm	5.0863 ppm	-0.0009 ppm	0.3286 ppm	0.2312 ppm	0.8571 ppm	-0.0033 ppm
Concentration RSD	0.8 %	0.3 %	12.5 %	1.7 %	1.2 %	1.1 %	44.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0041 ppm	3.9538 ppm	0.0141 ppm	0.0505 ppm	8.2739 ppm	0.0118 ppm	0.4498 ppm
Concentration per Run 1	-0.0059 ppm	3.9590 ppm	0.0140 ppm	0.0504 ppm	8.2733 ppm	0.0094 ppm	0.4493 ppm
Concentration per Run 2	-0.0021 ppm	3.9644 ppm	0.0145 ppm	0.0509 ppm	8.3570 ppm	0.0119 ppm	0.4535 ppm
Concentration per Run 3	-0.0044 ppm	3.9380 ppm	0.0139 ppm	0.0502 ppm	8.1913 ppm	0.0141 ppm	0.4467 ppm
Concentration RSD	46.6 %	0.4 %	2.1 %	0.7 %	1.0 %	19.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6242 ppm	110.0157 %	109.0152 %	100.4429 %	143.1814 %	140.6835 %	140.3187 %
Concentration per Run 1	0.6256 ppm	110.0565 %	109.9196 %	101.0382 %	144.1529 %	142.3269 %	141.3646 %
Concentration per Run 2	0.6313 ppm	109.7723 %	107.9473 %	100.8391 %	142.4879 %	139.4868 %	140.8852 %
Concentration per Run 3	0.6158 ppm	110.2183 %	109.1787 %	99.4514 %	142.9035 %	140.2369 %	138.7064 %
Concentration RSD	1.3 %	0.2 %	0.9 %	0.9 %	0.6 %	1.0 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-30d2 WG1935273
Analysis started at: 6/18/2024 8:45:40 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	214.9627 ppm	0.0356 ppm	0.0007 ppm	1.0626 ppm	0.0072 ppm	5.8629 ppm
Concentration per Run 1	0.0069 ppm	214.4340 ppm	0.0353 ppm	-0.0006 ppm	1.0525 ppm	0.0073 ppm	5.8576 ppm
Concentration per Run 2	0.0062 ppm	214.6751 ppm	0.0337 ppm	0.0017 ppm	1.0581 ppm	0.0073 ppm	5.8668 ppm
Concentration per Run 3	0.0073 ppm	215.7788 ppm	0.0377 ppm	0.0009 ppm	1.0772 ppm	0.0071 ppm	5.8643 ppm
Concentration RSD	7.8 %	0.3 %	5.7 %	168.8 %	1.2 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0094 ppm	0.1454 ppm	0.2906 ppm	0.3485 ppm	308.6749 ppm	30.9463 ppm	0.2711 ppm
Concentration per Run 1	-0.0093 ppm	0.1474 ppm	0.2922 ppm	0.3483 ppm	308.4114 ppm	30.5780 ppm	0.2705 ppm
Concentration per Run 2	-0.0093 ppm	0.1445 ppm	0.2907 ppm	0.3490 ppm	308.3155 ppm	30.9507 ppm	0.2715 ppm
Concentration per Run 3	-0.0095 ppm	0.1442 ppm	0.2889 ppm	0.3483 ppm	309.2976 ppm	31.3103 ppm	0.2714 ppm
Concentration RSD	0.9 %	1.2 %	0.6 %	0.1 %	0.2 %	1.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.7319 ppm	4.0785 ppm	-0.0019 ppm	0.6008 ppm	0.2731 ppm	0.1259 ppm	-0.0102 ppm
Concentration per Run 1	64.2435 ppm	4.0405 ppm	-0.0021 ppm	0.6009 ppm	0.2735 ppm	0.1273 ppm	-0.0127 ppm
Concentration per Run 2	63.8456 ppm	4.0951 ppm	-0.0017 ppm	0.5981 ppm	0.2739 ppm	0.1256 ppm	-0.0065 ppm
Concentration per Run 3	63.1066 ppm	4.0999 ppm	-0.0018 ppm	0.6035 ppm	0.2721 ppm	0.1249 ppm	-0.0114 ppm
Concentration RSD	0.9 %	0.8 %	11.1 %	0.4 %	0.3 %	1.0 %	31.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0080 ppm	3.8325 ppm	0.0154 ppm	0.0630 ppm	11.9603 ppm	0.0132 ppm	0.4725 ppm
Concentration per Run 1	-0.0037 ppm	3.8964 ppm	0.0164 ppm	0.0628 ppm	12.0314 ppm	0.0111 ppm	0.4770 ppm
Concentration per Run 2	-0.0142 ppm	3.8321 ppm	0.0160 ppm	0.0629 ppm	11.9717 ppm	0.0159 ppm	0.4733 ppm
Concentration per Run 3	-0.0063 ppm	3.7691 ppm	0.0139 ppm	0.0634 ppm	11.8778 ppm	0.0127 ppm	0.4671 ppm
Concentration RSD	67.9 %	1.7 %	8.8 %	0.5 %	0.6 %	18.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6850 ppm	109.7600 %	110.1716 %	102.5842 %	125.3754 %	125.3824 %	126.2882 %
Concentration per Run 1	0.6876 ppm	108.6992 %	109.9151 %	103.5371 %	123.8097 %	125.7334 %	127.8042 %
Concentration per Run 2	0.6873 ppm	110.4957 %	109.7558 %	102.0301 %	125.9696 %	124.4452 %	125.3127 %
Concentration per Run 3	0.6802 ppm	110.0851 %	110.8438 %	102.1855 %	126.3470 %	125.9686 %	125.7476 %
Concentration RSD	0.6 %	0.9 %	0.5 %	0.8 %	1.1 %	0.7 %	1.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432791-33d2 WG1935273
Analysis started at: 6/18/2024 8:49:09 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	164.7343 ppm	0.0349 ppm	0.0052 ppm	1.1846 ppm	0.0051 ppm	7.1381 ppm
Concentration per Run 1	0.0053 ppm	164.8563 ppm	0.0331 ppm	0.0052 ppm	1.1842 ppm	0.0051 ppm	7.1639 ppm
Concentration per Run 2	0.0056 ppm	164.7334 ppm	0.0352 ppm	0.0059 ppm	1.1795 ppm	0.0050 ppm	7.1423 ppm
Concentration per Run 3	0.0052 ppm	164.6132 ppm	0.0364 ppm	0.0044 ppm	1.1901 ppm	0.0051 ppm	7.1080 ppm
Concentration RSD	4.4 %	0.1 %	4.8 %	14.3 %	0.4 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0062 ppm	0.0981 ppm	0.2430 ppm	0.1175 ppm	227.0619 ppm	24.2049 ppm	0.1597 ppm
Concentration per Run 1	-0.0062 ppm	0.0978 ppm	0.2412 ppm	0.1161 ppm	227.4631 ppm	24.2088 ppm	0.1605 ppm
Concentration per Run 2	-0.0060 ppm	0.0971 ppm	0.2407 ppm	0.1170 ppm	226.2160 ppm	24.1864 ppm	0.1593 ppm
Concentration per Run 3	-0.0063 ppm	0.0995 ppm	0.2472 ppm	0.1194 ppm	227.5065 ppm	24.2196 ppm	0.1593 ppm
Concentration RSD	1.9 %	1.3 %	1.5 %	1.5 %	0.3 %	0.1 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.9019 ppm	4.3152 ppm	-0.0024 ppm	0.4028 ppm	0.1853 ppm	0.1313 ppm	-0.0058 ppm
Concentration per Run 1	47.7246 ppm	4.3244 ppm	-0.0022 ppm	0.4057 ppm	0.1839 ppm	0.1314 ppm	-0.0055 ppm
Concentration per Run 2	47.4746 ppm	4.3005 ppm	-0.0030 ppm	0.4085 ppm	0.1852 ppm	0.1313 ppm	-0.0079 ppm
Concentration per Run 3	48.5066 ppm	4.3206 ppm	-0.0018 ppm	0.3942 ppm	0.1869 ppm	0.1313 ppm	-0.0039 ppm
Concentration RSD	1.1 %	0.3 %	25.1 %	1.9 %	0.8 %	0.0 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0055 ppm	4.4070 ppm	0.0130 ppm	0.0568 ppm	10.3901 ppm	0.0104 ppm	0.3567 ppm
Concentration per Run 1	-0.0052 ppm	4.3977 ppm	0.0129 ppm	0.0573 ppm	10.3246 ppm	0.0110 ppm	0.3545 ppm
Concentration per Run 2	-0.0050 ppm	4.3955 ppm	0.0129 ppm	0.0565 ppm	10.2993 ppm	0.0081 ppm	0.3538 ppm
Concentration per Run 3	-0.0065 ppm	4.4277 ppm	0.0132 ppm	0.0567 ppm	10.5465 ppm	0.0122 ppm	0.3616 ppm
Concentration RSD	14.9 %	0.4 %	1.3 %	0.7 %	1.3 %	20.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5705 ppm	108.8368 %	111.8499 %	103.5324 %	125.0361 %	128.0585 %	127.1094 %
Concentration per Run 1	0.5696 ppm	109.4698 %	112.4339 %	103.7829 %	125.6317 %	129.1255 %	127.5780 %
Concentration per Run 2	0.5658 ppm	108.8931 %	112.0546 %	102.9212 %	125.2463 %	129.0176 %	126.5213 %
Concentration per Run 3	0.5760 ppm	108.1473 %	111.0612 %	103.8931 %	124.2304 %	126.0325 %	127.2289 %
Concentration RSD	0.9 %	0.6 %	0.6 %	0.5 %	0.6 %	1.4 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432804-01D2 WG1935294
Analysis started at: 6/18/2024 8:52:37 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0100 ppm	77.9413 ppm	0.7526 ppm	0.0187 ppm	2.3080 ppm	0.0041 ppm	32.7172 ppm
Concentration per Run 1	0.0103 ppm	77.9072 ppm	0.7467 ppm	0.0182 ppm	2.2962 ppm	0.0041 ppm	32.7155 ppm
Concentration per Run 2	0.0098 ppm	78.0309 ppm	0.7540 ppm	0.0199 ppm	2.3101 ppm	0.0041 ppm	32.8085 ppm
Concentration per Run 3	0.0099 ppm	77.8856 ppm	0.7572 ppm	0.0180 ppm	2.3177 ppm	0.0039 ppm	32.6275 ppm
Concentration RSD	2.5 %	0.1 %	0.7 %	5.4 %	0.5 %	2.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0095 ppm	0.0821 ppm	0.5058 ppm	1.4796 ppm	284.3247 ppm	14.5087 ppm	0.1330 ppm
Concentration per Run 1	0.0100 ppm	0.0834 ppm	0.5094 ppm	1.4948 ppm	284.0717 ppm	14.4722 ppm	0.1337 ppm
Concentration per Run 2	0.0093 ppm	0.0815 ppm	0.5052 ppm	1.4794 ppm	284.5132 ppm	14.4558 ppm	0.1331 ppm
Concentration per Run 3	0.0093 ppm	0.0814 ppm	0.5028 ppm	1.4645 ppm	284.3893 ppm	14.5980 ppm	0.1323 ppm
Concentration RSD	4.0 %	1.4 %	0.7 %	1.0 %	0.1 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.4227 ppm	3.4254 ppm	0.0114 ppm	2.3439 ppm	0.2260 ppm	12.4861 ppm	0.0305 ppm
Concentration per Run 1	31.7103 ppm	3.4153 ppm	0.0108 ppm	2.3415 ppm	0.2283 ppm	12.3865 ppm	0.0285 ppm
Concentration per Run 2	31.3121 ppm	3.4407 ppm	0.0112 ppm	2.3528 ppm	0.2254 ppm	12.5222 ppm	0.0328 ppm
Concentration per Run 3	31.2457 ppm	3.4203 ppm	0.0122 ppm	2.3374 ppm	0.2242 ppm	12.5496 ppm	0.0303 ppm
Concentration RSD	0.8 %	0.4 %	6.4 %	0.3 %	0.9 %	0.7 %	7.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	4.0671 ppm	0.2242 ppm	0.2620 ppm	5.3959 ppm	0.0068 ppm	0.4719 ppm
Concentration per Run 1	-0.0014 ppm	4.1231 ppm	0.2267 ppm	0.2610 ppm	5.4343 ppm	0.0068 ppm	0.4775 ppm
Concentration per Run 2	0.0010 ppm	4.0548 ppm	0.2218 ppm	0.2624 ppm	5.3778 ppm	0.0074 ppm	0.4698 ppm
Concentration per Run 3	0.0040 ppm	4.0235 ppm	0.2240 ppm	0.2627 ppm	5.3757 ppm	0.0063 ppm	0.4685 ppm
Concentration RSD	227.2 %	1.3 %	1.1 %	0.4 %	0.6 %	8.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.9388 ppm	110.1096 %	108.4235 %	99.4352 %	127.0021 %	124.8240 %	123.3895 %
Concentration per Run 1	3.9671 ppm	109.6159 %	107.8996 %	100.9314 %	126.5263 %	124.5112 %	125.1302 %
Concentration per Run 2	3.9222 ppm	111.6615 %	109.1425 %	98.8343 %	129.1031 %	125.6177 %	122.4455 %
Concentration per Run 3	3.9270 ppm	109.0514 %	108.2284 %	98.5400 %	125.3770 %	124.3430 %	122.5929 %
Concentration RSD	0.6 %	1.2 %	0.6 %	1.3 %	1.5 %	0.6 %	1.2 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-3D2 WG1935294
Analysis started at: 6/18/2024 8:56:07 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0545 ppm	91.3689 ppm	0.7165 ppm	0.9150 ppm	3.8812 ppm	0.0524 ppm	55.2934 ppm
Concentration per Run 1	0.0541 ppm	92.0434 ppm	0.7108 ppm	0.9103 ppm	3.9078 ppm	0.0526 ppm	55.6875 ppm
Concentration per Run 2	0.0551 ppm	91.2910 ppm	0.7205 ppm	0.9166 ppm	3.8681 ppm	0.0523 ppm	55.2646 ppm
Concentration per Run 3	0.0543 ppm	90.7723 ppm	0.7181 ppm	0.9180 ppm	3.8678 ppm	0.0522 ppm	54.9282 ppm
Concentration RSD	0.9 %	0.7 %	0.7 %	0.4 %	0.6 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0526 ppm	0.5305 ppm	0.4297 ppm	1.2419 ppm	226.5626 ppm	25.9063 ppm	0.1431 ppm
Concentration per Run 1	0.0522 ppm	0.5309 ppm	0.4335 ppm	1.2334 ppm	227.7845 ppm	26.0394 ppm	0.1432 ppm
Concentration per Run 2	0.0523 ppm	0.5299 ppm	0.4276 ppm	1.2506 ppm	226.1591 ppm	25.8833 ppm	0.1434 ppm
Concentration per Run 3	0.0533 ppm	0.5307 ppm	0.4280 ppm	1.2416 ppm	225.7442 ppm	25.7960 ppm	0.1426 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.7 %	0.5 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	56.6485 ppm	3.4387 ppm	0.9579 ppm	12.1105 ppm	0.6386 ppm	5.4512 ppm	0.4548 ppm
Concentration per Run 1	56.9386 ppm	3.4643 ppm	0.9447 ppm	12.1710 ppm	0.6454 ppm	5.4276 ppm	0.4534 ppm
Concentration per Run 2	56.3556 ppm	3.4357 ppm	0.9565 ppm	12.0994 ppm	0.6345 ppm	5.4971 ppm	0.4554 ppm
Concentration per Run 3	56.6513 ppm	3.4161 ppm	0.9726 ppm	12.0612 ppm	0.6360 ppm	5.4290 ppm	0.4555 ppm
Concentration RSD	0.5 %	0.7 %	1.5 %	0.5 %	0.9 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1091 ppm	5.9372 ppm	1.0655 ppm	1.1165 ppm	7.3608 ppm	0.1096 ppm	0.8809 ppm
Concentration per Run 1	0.1053 ppm	5.9295 ppm	1.0688 ppm	1.1240 ppm	7.4096 ppm	0.1101 ppm	0.8842 ppm
Concentration per Run 2	0.1075 ppm	5.9382 ppm	1.0594 ppm	1.1127 ppm	7.3165 ppm	0.1095 ppm	0.8821 ppm
Concentration per Run 3	0.1145 ppm	5.9438 ppm	1.0683 ppm	1.1129 ppm	7.3564 ppm	0.1093 ppm	0.8765 ppm
Concentration RSD	4.4 %	0.1 %	0.5 %	0.6 %	0.6 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2353 ppm	106.2761 %	106.9912 %	98.5264 %	120.6730 %	120.9209 %	119.8778 %
Concentration per Run 1	3.2553 ppm	105.7962 %	106.7151 %	98.7206 %	119.9360 %	120.6829 %	119.3602 %
Concentration per Run 2	3.2326 ppm	107.0133 %	106.5338 %	98.2534 %	122.2502 %	120.2062 %	119.6217 %
Concentration per Run 3	3.2181 ppm	106.0187 %	107.7246 %	98.6053 %	119.8327 %	121.8738 %	120.6516 %
Concentration RSD	0.6 %	0.6 %	0.6 %	0.2 %	1.1 %	0.7 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-4D2 WG1935294
Analysis started at: 6/18/2024 8:59:37 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0087 ppm	92.6045 ppm	0.8691 ppm	0.0168 ppm	2.4861 ppm	0.0042 ppm	29.2189 ppm
Concentration per Run 1	0.0087 ppm	91.7593 ppm	0.8698 ppm	0.0171 ppm	2.4917 ppm	0.0041 ppm	28.9421 ppm
Concentration per Run 2	0.0087 ppm	92.9852 ppm	0.8670 ppm	0.0176 ppm	2.4784 ppm	0.0043 ppm	29.3803 ppm
Concentration per Run 3	0.0088 ppm	93.0690 ppm	0.8705 ppm	0.0156 ppm	2.4882 ppm	0.0042 ppm	29.3343 ppm
Concentration RSD	0.9 %	0.8 %	0.2 %	6.0 %	0.3 %	1.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0093 ppm	0.0808 ppm	0.2834 ppm	1.4869 ppm	257.0688 ppm	16.2843 ppm	0.1578 ppm
Concentration per Run 1	0.0093 ppm	0.0817 ppm	0.2825 ppm	1.4862 ppm	256.2100 ppm	16.2360 ppm	0.1574 ppm
Concentration per Run 2	0.0094 ppm	0.0813 ppm	0.2845 ppm	1.4903 ppm	257.4063 ppm	16.3091 ppm	0.1576 ppm
Concentration per Run 3	0.0092 ppm	0.0793 ppm	0.2832 ppm	1.4841 ppm	257.5901 ppm	16.3078 ppm	0.1583 ppm
Concentration RSD	1.4 %	1.6 %	0.4 %	0.2 %	0.3 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.5788 ppm	3.2059 ppm	0.0119 ppm	2.5431 ppm	0.2405 ppm	8.0085 ppm	0.0283 ppm
Concentration per Run 1	38.6635 ppm	3.1925 ppm	0.0117 ppm	2.5259 ppm	0.2424 ppm	7.9791 ppm	0.0259 ppm
Concentration per Run 2	38.5399 ppm	3.2156 ppm	0.0117 ppm	2.5614 ppm	0.2407 ppm	7.9940 ppm	0.0264 ppm
Concentration per Run 3	38.5329 ppm	3.2096 ppm	0.0124 ppm	2.5421 ppm	0.2383 ppm	8.0524 ppm	0.0327 ppm
Concentration RSD	0.2 %	0.4 %	3.2 %	0.7 %	0.9 %	0.5 %	13.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.2631 ppm	0.2119 ppm	0.2476 ppm	7.0522 ppm	0.0104 ppm	0.5219 ppm
Concentration per Run 1	0.0003 ppm	4.2710 ppm	0.2109 ppm	0.2474 ppm	7.0587 ppm	0.0111 ppm	0.5230 ppm
Concentration per Run 2	0.0040 ppm	4.2840 ppm	0.2124 ppm	0.2475 ppm	7.0477 ppm	0.0095 ppm	0.5238 ppm
Concentration per Run 3	-0.0017 ppm	4.2342 ppm	0.2123 ppm	0.2479 ppm	7.0501 ppm	0.0107 ppm	0.5188 ppm
Concentration RSD	340.7 %	0.6 %	0.4 %	0.1 %	0.1 %	8.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.0485 ppm	108.0342 %	108.7031 %	100.3991 %	126.3191 %	126.3811 %	125.0805 %
Concentration per Run 1	4.0521 ppm	108.7839 %	110.0601 %	100.7660 %	127.0618 %	127.3673 %	125.4748 %
Concentration per Run 2	4.0461 ppm	107.4367 %	107.6972 %	100.9912 %	125.7883 %	126.0588 %	126.1159 %
Concentration per Run 3	4.0471 ppm	107.8819 %	108.3519 %	99.4400 %	126.1073 %	125.7171 %	123.6506 %
Concentration RSD	0.1 %	0.6 %	1.1 %	0.8 %	0.5 %	0.7 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-5D2 WG1935294
Analysis started at: 6/18/2024 9:03:07 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0540 ppm	77.7491 ppm	0.8575 ppm	0.8919 ppm	4.0170 ppm	0.0496 ppm	40.8526 ppm
Concentration per Run 1	0.0533 ppm	77.0660 ppm	0.8546 ppm	0.8918 ppm	3.9552 ppm	0.0490 ppm	40.4107 ppm
Concentration per Run 2	0.0548 ppm	77.8780 ppm	0.8602 ppm	0.8975 ppm	4.0341 ppm	0.0497 ppm	41.0127 ppm
Concentration per Run 3	0.0540 ppm	78.3033 ppm	0.8578 ppm	0.8864 ppm	4.0618 ppm	0.0501 ppm	41.1343 ppm
Concentration RSD	1.4 %	0.8 %	0.3 %	0.6 %	1.4 %	1.1 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0551 ppm	0.5061 ppm	0.6839 ppm	1.7050 ppm	276.9535 ppm	23.6542 ppm	0.1277 ppm
Concentration per Run 1	0.0545 ppm	0.5037 ppm	0.6853 ppm	1.7038 ppm	274.0778 ppm	23.1957 ppm	0.1275 ppm
Concentration per Run 2	0.0571 ppm	0.5180 ppm	0.6906 ppm	1.7139 ppm	277.2088 ppm	23.8592 ppm	0.1284 ppm
Concentration per Run 3	0.0537 ppm	0.4967 ppm	0.6758 ppm	1.6974 ppm	279.5740 ppm	23.9078 ppm	0.1272 ppm
Concentration RSD	3.3 %	2.1 %	1.1 %	0.5 %	1.0 %	1.7 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.2348 ppm	3.7789 ppm	0.8847 ppm	11.6204 ppm	0.6616 ppm	12.7672 ppm	0.4233 ppm
Concentration per Run 1	40.0781 ppm	3.7215 ppm	0.8640 ppm	11.5354 ppm	0.6663 ppm	12.7306 ppm	0.4140 ppm
Concentration per Run 2	40.7875 ppm	3.7787 ppm	0.8968 ppm	11.6399 ppm	0.6652 ppm	12.8071 ppm	0.4316 ppm
Concentration per Run 3	39.8388 ppm	3.8365 ppm	0.8933 ppm	11.6858 ppm	0.6533 ppm	12.7640 ppm	0.4242 ppm
Concentration RSD	1.2 %	1.5 %	2.0 %	0.7 %	1.1 %	0.3 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1129 ppm	4.9321 ppm	1.1099 ppm	1.1407 ppm	6.3111 ppm	0.1166 ppm	0.9124 ppm
Concentration per Run 1	0.1127 ppm	4.8753 ppm	1.1130 ppm	1.1254 ppm	6.2971 ppm	0.1143 ppm	0.9075 ppm
Concentration per Run 2	0.1139 ppm	5.0285 ppm	1.1118 ppm	1.1430 ppm	6.3766 ppm	0.1193 ppm	0.9233 ppm
Concentration per Run 3	0.1120 ppm	4.8927 ppm	1.1049 ppm	1.1538 ppm	6.2597 ppm	0.1163 ppm	0.9065 ppm
Concentration RSD	0.9 %	1.7 %	0.4 %	1.3 %	0.9 %	2.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.4129 ppm	106.5233 %	108.7682 %	98.7732 %	122.5938 %	124.8039 %	122.2992 %
Concentration per Run 1	4.4191 ppm	106.7557 %	109.8948 %	99.4230 %	122.8078 %	125.8579 %	123.1956 %
Concentration per Run 2	4.4363 ppm	105.8473 %	108.0640 %	98.7990 %	122.0094 %	124.1164 %	122.3466 %
Concentration per Run 3	4.3832 ppm	106.9671 %	108.3457 %	98.0977 %	122.9642 %	124.4375 %	121.3554 %
Concentration RSD	0.6 %	0.6 %	0.9 %	0.7 %	0.4 %	0.7 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-6D10 WG1935294
Analysis started at: 6/18/2024 9:06:35 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	16.1297 ppm	0.1521 ppm	0.0049 ppm	0.4797 ppm	0.0009 ppm	6.8789 ppm
Concentration per Run 1	0.0029 ppm	16.0858 ppm	0.1530 ppm	0.0037 ppm	0.4747 ppm	0.0008 ppm	6.8789 ppm
Concentration per Run 2	0.0020 ppm	16.1909 ppm	0.1527 ppm	0.0059 ppm	0.4818 ppm	0.0009 ppm	6.9165 ppm
Concentration per Run 3	0.0026 ppm	16.1123 ppm	0.1507 ppm	0.0052 ppm	0.4825 ppm	0.0009 ppm	6.8413 ppm
Concentration RSD	16.6 %	0.3 %	0.8 %	23.2 %	0.9 %	1.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0177 ppm	0.1066 ppm	0.3098 ppm	62.6270 ppm	2.9424 ppm	0.0270 ppm
Concentration per Run 1	0.0023 ppm	0.0180 ppm	0.1067 ppm	0.3093 ppm	62.2773 ppm	2.9376 ppm	0.0274 ppm
Concentration per Run 2	0.0022 ppm	0.0181 ppm	0.1066 ppm	0.3101 ppm	62.6770 ppm	2.9813 ppm	0.0266 ppm
Concentration per Run 3	0.0023 ppm	0.0169 ppm	0.1064 ppm	0.3102 ppm	62.9266 ppm	2.9083 ppm	0.0270 ppm
Concentration RSD	4.0 %	3.7 %	0.2 %	0.2 %	0.5 %	1.2 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.8248 ppm	0.7242 ppm	0.0033 ppm	0.4616 ppm	0.0498 ppm	2.6053 ppm	0.0098 ppm
Concentration per Run 1	6.8252 ppm	0.7224 ppm	0.0031 ppm	0.4629 ppm	0.0499 ppm	2.5954 ppm	0.0102 ppm
Concentration per Run 2	6.8448 ppm	0.7282 ppm	0.0032 ppm	0.4609 ppm	0.0501 ppm	2.5849 ppm	0.0060 ppm
Concentration per Run 3	6.8043 ppm	0.7219 ppm	0.0037 ppm	0.4610 ppm	0.0495 ppm	2.6356 ppm	0.0133 ppm
Concentration RSD	0.3 %	0.5 %	9.0 %	0.2 %	0.6 %	1.0 %	37.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.8590 ppm	0.0528 ppm	0.0540 ppm	1.1349 ppm	0.0021 ppm	0.0981 ppm
Concentration per Run 1	-0.0020 ppm	0.8622 ppm	0.0529 ppm	0.0535 ppm	1.1322 ppm	0.0011 ppm	0.0983 ppm
Concentration per Run 2	0.0005 ppm	0.8661 ppm	0.0536 ppm	0.0542 ppm	1.1382 ppm	0.0023 ppm	0.0981 ppm
Concentration per Run 3	-0.0014 ppm	0.8488 ppm	0.0518 ppm	0.0543 ppm	1.1343 ppm	0.0029 ppm	0.0980 ppm
Concentration RSD	131.0 %	1.1 %	1.7 %	0.8 %	0.3 %	43.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8620 ppm	108.7114 %	104.5532 %	104.3997 %	112.3501 %	107.1525 %	110.3503 %
Concentration per Run 1	0.8617 ppm	108.1520 %	103.7444 %	104.7232 %	112.2234 %	106.7902 %	110.6242 %
Concentration per Run 2	0.8640 ppm	108.3788 %	103.9618 %	105.0154 %	111.7983 %	106.4902 %	111.1356 %
Concentration per Run 3	0.8603 ppm	109.6034 %	105.9533 %	103.4604 %	113.0286 %	108.1771 %	109.2910 %
Concentration RSD	0.2 %	0.7 %	1.2 %	0.8 %	0.6 %	0.8 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:10:02 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4886 ppm	0.4946 ppm	0.4647 ppm	0.4839 ppm	0.4892 ppm	0.5025 ppm	0.4723 ppm
Concentration per Run 1	0.4894 ppm	0.4925 ppm	0.4627 ppm	0.4866 ppm	0.4885 ppm	0.4989 ppm	0.4695 ppm
Concentration per Run 2	0.4897 ppm	0.4984 ppm	0.4660 ppm	0.4811 ppm	0.4860 ppm	0.4999 ppm	0.4740 ppm
Concentration per Run 3	0.4868 ppm	0.4928 ppm	0.4653 ppm	0.4840 ppm	0.4930 ppm	0.5086 ppm	0.4733 ppm
Recovery Percentage 1	97.723 %	98.911 %	92.936 %	96.777 %	97.839 %	100.495 %	94.452 %
Concentration RSD	0.3 %	0.7 %	0.4 %	0.6 %	0.7 %	1.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4842 ppm	0.4963 ppm	0.4793 ppm	0.4837 ppm	0.5001 ppm	5.0361 ppm	0.4857 ppm
Concentration per Run 1	0.4903 ppm	0.5000 ppm	0.4809 ppm	0.4858 ppm	0.4953 ppm	5.0379 ppm	0.4862 ppm
Concentration per Run 2	0.4818 ppm	0.4948 ppm	0.4787 ppm	0.4840 ppm	0.5010 ppm	4.9955 ppm	0.4830 ppm
Concentration per Run 3	0.4807 ppm	0.4941 ppm	0.4783 ppm	0.4813 ppm	0.5041 ppm	5.0747 ppm	0.4878 ppm
Recovery Percentage 1	96.850 %	99.262 %	95.856 %	96.743 %	100.024 %	100.721 %	97.134 %
Concentration RSD	1.1 %	0.7 %	0.3 %	0.5 %	0.9 %	0.8 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4727 ppm	0.4756 ppm	0.4980 ppm	9.6155 ppm	0.4997 ppm	0.4860 ppm	0.4940 ppm
Concentration per Run 1	0.4730 ppm	0.4730 ppm	0.4947 ppm	9.5788 ppm	0.5025 ppm	0.4857 ppm	0.4905 ppm
Concentration per Run 2	0.4749 ppm	0.4752 ppm	0.4987 ppm	9.5946 ppm	0.4981 ppm	0.4872 ppm	0.4968 ppm
Concentration per Run 3	0.4703 ppm	0.4786 ppm	0.5005 ppm	9.6732 ppm	0.4984 ppm	0.4851 ppm	0.4946 ppm
Recovery Percentage 1	94.548 %	95.127 %	99.599 %	96.155 %	99.933 %	97.197 %	98.793 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.5 %	0.5 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4773 ppm	5.4598 ppm	0.5102 ppm	0.4946 ppm	0.4900 ppm	0.4896 ppm	0.4795 ppm
Concentration per Run 1	0.4750 ppm	5.4835 ppm	0.5109 ppm	0.4929 ppm	0.4917 ppm	0.4890 ppm	0.4812 ppm
Concentration per Run 2	0.4770 ppm	5.4579 ppm	0.5108 ppm	0.4926 ppm	0.4889 ppm	0.4887 ppm	0.4791 ppm
Concentration per Run 3	0.4797 ppm	5.4381 ppm	0.5088 ppm	0.4985 ppm	0.4895 ppm	0.4912 ppm	0.4783 ppm
Recovery Percentage 1	95.452 %	103.997 %	102.035 %	98.929 %	98.005 %	97.926 %	95.903 %
Concentration RSD	0.5 %	0.4 %	0.2 %	0.7 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4925 ppm	104.3514 %	103.9359 %	103.0634 %	104.6528 %	103.2586 %	104.7181 %
Concentration per Run 1	0.4923 ppm	104.2053 %	105.0598 %	102.1233 %	104.6333 %	104.3731 %	104.1261 %
Concentration per Run 2	0.4930 ppm	104.9002 %	104.3761 %	103.4420 %	104.9681 %	103.7055 %	104.7981 %
Concentration per Run 3	0.4922 ppm	103.9486 %	102.3718 %	103.6249 %	104.3569 %	101.6972 %	105.2301 %
Recovery Percentage 1	98.499 %						
Concentration RSD	0.1 %	0.5 %	1.3 %	0.8 %	0.3 %	1.3 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:13:31 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0186 ppm	0.0008 ppm	0.0023 ppm	0.0002 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 1	0.0004 ppm	0.0176 ppm	0.0027 ppm	0.0036 ppm	0.0003 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	0.0212 ppm	-0.0003 ppm	0.0013 ppm	0.0003 ppm	0.0002 ppm	0.0035 ppm
Concentration per Run 3	0.0003 ppm	0.0168 ppm	0.0001 ppm	0.0019 ppm	0.0001 ppm	0.0001 ppm	0.0068 ppm
Recovery Percentage 1	4.501 %	18.565 %	16.803 %	7.547 %	2.133 %	3.624 %	4.014 %
Concentration RSD	23.2 %	12.6 %	194.2 %	51.7 %	63.2 %	16.9 %	62.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0055 ppm	0.0125 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0073 ppm	0.0023 ppm	-0.0004 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0043 ppm	0.0311 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0006 ppm	-0.0005 ppm	-0.0001 ppm	0.0049 ppm	0.0042 ppm	-0.0008 ppm
Recovery Percentage 1	4.808 %	-1.210 %	-6.240 %	0.509 %	11.011 %	0.501 %	-6.844 %
Concentration RSD	24.9 %	147.3 %	18.6 %	520.3 %	28.4 %	128.4 %	132.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0031 ppm	0.0001 ppm	-0.0003 ppm	-0.0194 ppm	0.0000 ppm	-0.0003 ppm	0.0016 ppm
Concentration per Run 1	-0.0013 ppm	0.0001 ppm	-0.0004 ppm	-0.0172 ppm	-0.0005 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	-0.0041 ppm	0.0002 ppm	-0.0003 ppm	-0.0181 ppm	0.0008 ppm	-0.0010 ppm	0.0008 ppm
Concentration per Run 3	-0.0039 ppm	0.0002 ppm	-0.0002 ppm	-0.0230 ppm	-0.0004 ppm	0.0006 ppm	0.0036 ppm
Recovery Percentage 1	-3.088 %	1.365 %	-0.583 %	-0.972 %	-0.134 %	-3.273 %	3.125 %
Concentration RSD	51.3 %	40.0 %	28.3 %	16.1 %	2,233.3 %	258.1 %	112.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	0.0129 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0031 ppm	0.0159 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 2	-0.0032 ppm	0.0130 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.0099 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-17.275 %	2.579 %	1.254 %	1.488 %	1.236 %	2.497 %	-2.469 %
Concentration RSD	143.6 %	23.4 %	29.0 %	36.1 %	68.6 %	102.2 %	59.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	104.7488 %	103.0822 %	103.4371 %	106.6280 %	103.0507 %	105.2072 %
Concentration per Run 1	-0.0002 ppm	104.6334 %	103.5890 %	102.3612 %	106.4244 %	104.2117 %	104.0316 %
Concentration per Run 2	0.0000 ppm	104.4363 %	103.6782 %	103.7884 %	106.3901 %	102.9219 %	105.5473 %
Concentration per Run 3	0.0003 ppm	105.1766 %	101.9793 %	104.1619 %	107.0694 %	102.0185 %	106.0425 %
Recovery Percentage 1	0.566 %						
Concentration RSD	754.5 %	0.4 %	0.9 %	0.9 %	0.4 %	1.1 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-1 WG1935294
Analysis started at: 6/18/2024 9:20:57 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0295 ppm	-0.0003 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0128 ppm
Concentration per Run 1	0.0002 ppm	0.0252 ppm	-0.0014 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0128 ppm
Concentration per Run 2	0.0002 ppm	0.0369 ppm	0.0008 ppm	0.0040 ppm	0.0002 ppm	0.0000 ppm	0.0129 ppm
Concentration per Run 3	0.0009 ppm	0.0262 ppm	-0.0002 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	0.0127 ppm
Recovery Percentage 1	5.943 %	29.470 %	-5.361 %	6.255 %	2.244 %	0.294 %	12.800 %
Concentration RSD	91.0 %	22.0 %	401.9 %	108.0 %	14.7 %	116.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0008 ppm	0.0008 ppm	0.0009 ppm	**0.4672 ppm**	0.0056 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0010 ppm	0.0005 ppm	0.0005 ppm	0.4681 ppm	0.0108 ppm	-0.0008 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0007 ppm	0.0008 ppm	0.4668 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0010 ppm	0.0011 ppm	0.0013 ppm	0.4666 ppm	0.0056 ppm	0.0007 ppm
Recovery Percentage 1	0.273 %	-4.169 %	7.834 %	8.529 %	934.300 %	0.223 %	1.688 %
Concentration RSD	1,097.5 %	39.2 %	38.1 %	49.7 %	**0.2 %**	93.7 %	923.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0010 ppm	-0.0026 ppm	-0.0081 ppm	0.0001 ppm	-0.0014 ppm	-0.0025 ppm
Concentration per Run 1	0.0041 ppm	0.0010 ppm	-0.0029 ppm	-0.0057 ppm	-0.0003 ppm	-0.0028 ppm	-0.0035 ppm
Concentration per Run 2	0.0024 ppm	0.0012 ppm	-0.0021 ppm	-0.0096 ppm	0.0000 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 3	0.0045 ppm	0.0010 ppm	-0.0028 ppm	-0.0090 ppm	0.0007 ppm	-0.0006 ppm	-0.0054 ppm
Recovery Percentage 1	3.637 %	10.368 %	-5.190 %	-0.404 %	0.597 %	-13.764 %	-4.957 %
Concentration RSD	30.3 %	10.3 %	16.5 %	26.3 %	350.1 %	86.8 %	142.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	0.0146 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0013 ppm	-0.0002 ppm
Concentration per Run 1	0.0025 ppm	0.0146 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0023 ppm	0.0151 ppm	-0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0141 ppm	-0.0009 ppm	0.0000 ppm	-0.0002 ppm	0.0013 ppm	-0.0001 ppm
Recovery Percentage 1	15.411 %	2.914 %	-1.055 %	0.209 %	-1.536 %	6.305 %	-1.551 %
Concentration RSD	98.1 %	3.4 %	104.2 %	236.1 %	134.6 %	28.3 %	31.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	106.0667 %	103.3923 %	105.3691 %	107.3084 %	103.1750 %	106.0935 %
Concentration per Run 1	0.0010 ppm	106.9954 %	103.7926 %	104.9205 %	108.3092 %	104.3063 %	106.0369 %
Concentration per Run 2	0.0008 ppm	105.0603 %	102.9271 %	106.0923 %	105.9625 %	102.6647 %	106.5580 %
Concentration per Run 3	0.0010 ppm	106.1446 %	103.4573 %	105.0947 %	107.6535 %	102.5539 %	105.6856 %
Recovery Percentage 1	18.647 %						
Concentration RSD	8.5 %	0.9 %	0.4 %	0.6 %	1.1 %	1.0 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935294-2D2 WG1935294
Analysis started at: 6/18/2024 9:24:33 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	2.1099 ppm	0.1199 ppm	1.0250 ppm	2.0303 ppm	0.0521 ppm	10.0447 ppm
Concentration per Run 1	0.0517 ppm	2.1256 ppm	0.1205 ppm	1.0215 ppm	2.0371 ppm	0.0524 ppm	10.0935 ppm
Concentration per Run 2	0.0518 ppm	2.0868 ppm	0.1220 ppm	1.0391 ppm	2.0251 ppm	0.0519 ppm	9.9678 ppm
Concentration per Run 3	0.0516 ppm	2.1172 ppm	0.1171 ppm	1.0143 ppm	2.0286 ppm	0.0520 ppm	10.0728 ppm
Concentration RSD	0.2 %	1.0 %	2.1 %	1.2 %	0.3 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0544 ppm	0.5156 ppm	0.2036 ppm	0.2573 ppm	1.0270 ppm	10.3337 ppm	0.0002 ppm
Concentration per Run 1	0.0543 ppm	0.5173 ppm	0.2040 ppm	0.2582 ppm	1.0287 ppm	10.3749 ppm	-0.0004 ppm
Concentration per Run 2	0.0546 ppm	0.5158 ppm	0.2043 ppm	0.2588 ppm	1.0250 ppm	10.3036 ppm	0.0007 ppm
Concentration per Run 3	0.0543 ppm	0.5136 ppm	0.2024 ppm	0.2549 ppm	1.0271 ppm	10.3226 ppm	0.0004 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.8 %	0.2 %	0.4 %	245.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1129 ppm	0.4968 ppm	1.0239 ppm	10.2390 ppm	0.5083 ppm	0.5355 ppm	0.5267 ppm
Concentration per Run 1	10.0788 ppm	0.4993 ppm	1.0124 ppm	10.3218 ppm	0.5097 ppm	0.5356 ppm	0.5243 ppm
Concentration per Run 2	10.1767 ppm	0.4932 ppm	1.0308 ppm	10.1760 ppm	0.5101 ppm	0.5403 ppm	0.5284 ppm
Concentration per Run 3	10.0832 ppm	0.4980 ppm	1.0284 ppm	10.2192 ppm	0.5051 ppm	0.5306 ppm	0.5274 ppm
Concentration RSD	0.5 %	0.6 %	1.0 %	0.7 %	0.6 %	0.9 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1207 ppm	1.1859 ppm	1.0199 ppm	0.9714 ppm	1.0179 ppm	0.1232 ppm	0.5154 ppm
Concentration per Run 1	0.1221 ppm	1.1797 ppm	1.0207 ppm	0.9776 ppm	1.0159 ppm	0.1235 ppm	0.5165 ppm
Concentration per Run 2	0.1205 ppm	1.1954 ppm	1.0256 ppm	0.9676 ppm	1.0253 ppm	0.1235 ppm	0.5190 ppm
Concentration per Run 3	0.1195 ppm	1.1825 ppm	1.0132 ppm	0.9690 ppm	1.0126 ppm	0.1225 ppm	0.5107 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	0.6 %	0.6 %	0.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5096 ppm	106.1081 %	103.3308 %	103.1740 %	106.2362 %	102.4192 %	105.2842 %
Concentration per Run 1	0.5116 ppm	105.7104 %	103.8394 %	103.3983 %	106.0815 %	103.3210 %	105.5247 %
Concentration per Run 2	0.5121 ppm	105.7409 %	103.2707 %	102.4928 %	105.9199 %	101.9038 %	104.2501 %
Concentration per Run 3	0.5051 ppm	106.8731 %	102.8823 %	103.6310 %	106.7071 %	102.0329 %	106.0778 %
Concentration RSD	0.8 %	0.6 %	0.5 %	0.6 %	0.4 %	0.8 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432523-01D2 WG1935294
Analysis started at: 6/18/2024 9:28:02 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	83.6724 ppm	0.0878 ppm	0.0613 ppm	0.4898 ppm	0.0039 ppm	44.8260 ppm
Concentration per Run 1	0.0051 ppm	83.2622 ppm	0.0853 ppm	0.0599 ppm	0.4848 ppm	0.0039 ppm	44.6478 ppm
Concentration per Run 2	0.0052 ppm	83.8508 ppm	0.0883 ppm	0.0600 ppm	0.4909 ppm	0.0040 ppm	44.8706 ppm
Concentration per Run 3	0.0052 ppm	83.9041 ppm	0.0897 ppm	0.0639 ppm	0.4937 ppm	0.0039 ppm	44.9595 ppm
Concentration RSD	0.9 %	0.4 %	2.6 %	3.7 %	0.9 %	1.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0053 ppm	0.1040 ppm	0.1597 ppm	0.3946 ppm	201.2511 ppm	7.1035 ppm	0.1043 ppm
Concentration per Run 1	-0.0051 ppm	0.1029 ppm	0.1592 ppm	0.3920 ppm	199.7808 ppm	7.0642 ppm	0.1028 ppm
Concentration per Run 2	-0.0054 ppm	0.1046 ppm	0.1602 ppm	0.3972 ppm	201.5494 ppm	7.1188 ppm	0.1049 ppm
Concentration per Run 3	-0.0055 ppm	0.1045 ppm	0.1598 ppm	0.3946 ppm	202.4231 ppm	7.1275 ppm	0.1050 ppm
Concentration RSD	3.6 %	0.9 %	0.3 %	0.7 %	0.7 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.4200 ppm	3.1992 ppm	0.0035 ppm	1.5916 ppm	0.1618 ppm	0.1289 ppm	-0.0030 ppm
Concentration per Run 1	40.1501 ppm	3.1975 ppm	0.0042 ppm	1.5772 ppm	0.1621 ppm	0.1301 ppm	-0.0043 ppm
Concentration per Run 2	40.5659 ppm	3.2061 ppm	0.0034 ppm	1.6007 ppm	0.1613 ppm	0.1284 ppm	-0.0014 ppm
Concentration per Run 3	40.5440 ppm	3.1940 ppm	0.0029 ppm	1.5969 ppm	0.1621 ppm	0.1282 ppm	-0.0031 ppm
Concentration RSD	0.6 %	0.2 %	17.6 %	0.8 %	0.3 %	0.8 %	48.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0061 ppm	4.3766 ppm	0.0075 ppm	0.1730 ppm	3.2721 ppm	0.0058 ppm	0.4608 ppm
Concentration per Run 1	-0.0059 ppm	4.4049 ppm	0.0086 ppm	0.1718 ppm	3.2612 ppm	0.0065 ppm	0.4579 ppm
Concentration per Run 2	-0.0061 ppm	4.3739 ppm	0.0061 ppm	0.1734 ppm	3.2769 ppm	0.0046 ppm	0.4624 ppm
Concentration per Run 3	-0.0064 ppm	4.3510 ppm	0.0078 ppm	0.1737 ppm	3.2783 ppm	0.0062 ppm	0.4622 ppm
Concentration RSD	4.1 %	0.6 %	16.6 %	0.6 %	0.3 %	17.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5717 ppm	112.8545 %	113.8718 %	104.0351 %	142.0302 %	142.6232 %	140.3399 %
Concentration per Run 1	0.5704 ppm	114.3434 %	114.0352 %	103.5618 %	143.6345 %	142.9054 %	139.6037 %
Concentration per Run 2	0.5689 ppm	112.8800 %	113.7869 %	105.0531 %	142.5840 %	142.2713 %	141.8391 %
Concentration per Run 3	0.5758 ppm	111.3401 %	113.7934 %	103.4903 %	139.8721 %	142.6929 %	139.5768 %
Concentration RSD	0.6 %	1.3 %	0.1 %	0.8 %	1.4 %	0.2 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432523-02D2 WG1935294
Analysis started at: 6/18/2024 9:31:30 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0053 ppm	96.7802 ppm	0.0464 ppm	0.0479 ppm	0.5558 ppm	0.0050 ppm	54.0636 ppm
Concentration per Run 1	0.0055 ppm	98.2354 ppm	0.0468 ppm	0.0475 ppm	0.5657 ppm	0.0050 ppm	54.9567 ppm
Concentration per Run 2	0.0048 ppm	96.6135 ppm	0.0460 ppm	0.0490 ppm	0.5544 ppm	0.0049 ppm	54.0442 ppm
Concentration per Run 3	0.0056 ppm	95.4918 ppm	0.0464 ppm	0.0472 ppm	0.5473 ppm	0.0050 ppm	53.1899 ppm
Concentration RSD	8.0 %	1.4 %	0.8 %	1.9 %	1.7 %	0.9 %	1.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0054 ppm	0.0867 ppm	0.1802 ppm	0.2632 ppm	201.7100 ppm	8.1881 ppm	0.1338 ppm
Concentration per Run 1	-0.0057 ppm	0.0871 ppm	0.1804 ppm	0.2633 ppm	205.2673 ppm	8.2700 ppm	0.1357 ppm
Concentration per Run 2	-0.0053 ppm	0.0861 ppm	0.1802 ppm	0.2620 ppm	201.2236 ppm	8.1513 ppm	0.1331 ppm
Concentration per Run 3	-0.0053 ppm	0.0870 ppm	0.1800 ppm	0.2643 ppm	198.6392 ppm	8.1432 ppm	0.1326 ppm
Concentration RSD	4.4 %	0.6 %	0.1 %	0.4 %	1.7 %	0.9 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.6642 ppm	4.0917 ppm	0.0003 ppm	1.2638 ppm	0.1557 ppm	0.1416 ppm	-0.0045 ppm
Concentration per Run 1	43.7614 ppm	4.1626 ppm	-0.0003 ppm	1.2790 ppm	0.1577 ppm	0.1422 ppm	-0.0083 ppm
Concentration per Run 2	43.7675 ppm	4.0828 ppm	0.0005 ppm	1.2543 ppm	0.1554 ppm	0.1431 ppm	0.0004 ppm
Concentration per Run 3	43.4637 ppm	4.0297 ppm	0.0005 ppm	1.2581 ppm	0.1540 ppm	0.1397 ppm	-0.0056 ppm
Concentration RSD	0.4 %	1.6 %	188.6 %	1.1 %	1.2 %	1.2 %	98.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0065 ppm	5.0752 ppm	0.0067 ppm	0.1905 ppm	3.1978 ppm	0.0043 ppm	0.3025 ppm
Concentration per Run 1	-0.0077 ppm	5.0822 ppm	0.0074 ppm	0.1933 ppm	3.2018 ppm	0.0052 ppm	0.3029 ppm
Concentration per Run 2	-0.0058 ppm	5.0844 ppm	0.0071 ppm	0.1899 ppm	3.2052 ppm	0.0032 ppm	0.3014 ppm
Concentration per Run 3	-0.0059 ppm	5.0590 ppm	0.0056 ppm	0.1882 ppm	3.1864 ppm	0.0045 ppm	0.3031 ppm
Concentration RSD	16.5 %	0.3 %	14.2 %	1.4 %	0.3 %	23.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6287 ppm	111.0162 %	110.9818 %	102.0146 %	136.7545 %	135.9853 %	135.5655 %
Concentration per Run 1	0.6288 ppm	110.3078 %	110.1336 %	102.4482 %	136.4611 %	135.5379 %	136.4770 %
Concentration per Run 2	0.6294 ppm	111.5942 %	110.0280 %	102.3324 %	136.7986 %	134.7541 %	136.0870 %
Concentration per Run 3	0.6278 ppm	111.1465 %	112.7838 %	101.2632 %	137.0038 %	137.6639 %	134.1323 %
Concentration RSD	0.1 %	0.6 %	1.4 %	0.6 %	0.2 %	1.1 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432523-03D2 WG1935294
Analysis started at: 6/18/2024 9:34:57 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0047 ppm	85.3759 ppm	0.0395 ppm	0.0408 ppm	0.5799 ppm	0.0044 ppm	81.8370 ppm
Concentration per Run 1	0.0046 ppm	84.8836 ppm	0.0400 ppm	0.0416 ppm	0.5785 ppm	0.0044 ppm	81.6162 ppm
Concentration per Run 2	0.0048 ppm	85.6051 ppm	0.0389 ppm	0.0410 ppm	0.5799 ppm	0.0044 ppm	82.1606 ppm
Concentration per Run 3	0.0047 ppm	85.6391 ppm	0.0395 ppm	0.0399 ppm	0.5815 ppm	0.0044 ppm	81.7343 ppm
Concentration RSD	2.9 %	0.5 %	1.5 %	2.1 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0043 ppm	0.0649 ppm	0.1518 ppm	0.2272 ppm	170.5003 ppm	8.0531 ppm	0.1176 ppm
Concentration per Run 1	-0.0043 ppm	0.0655 ppm	0.1548 ppm	0.2284 ppm	170.4712 ppm	8.0266 ppm	0.1182 ppm
Concentration per Run 2	-0.0046 ppm	0.0645 ppm	0.1500 ppm	0.2273 ppm	170.9017 ppm	8.0359 ppm	0.1165 ppm
Concentration per Run 3	-0.0042 ppm	0.0647 ppm	0.1507 ppm	0.2259 ppm	170.1279 ppm	8.0968 ppm	0.1181 ppm
Concentration RSD	4.6 %	0.8 %	1.7 %	0.6 %	0.2 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.7061 ppm	3.7813 ppm	0.0007 ppm	1.2725 ppm	0.1269 ppm	0.1475 ppm	0.0000 ppm
Concentration per Run 1	43.2581 ppm	3.7670 ppm	0.0004 ppm	1.2797 ppm	0.1280 ppm	0.1501 ppm	0.0034 ppm
Concentration per Run 2	42.5039 ppm	3.8008 ppm	0.0010 ppm	1.2722 ppm	0.1273 ppm	0.1462 ppm	-0.0021 ppm
Concentration per Run 3	42.3563 ppm	3.7762 ppm	0.0007 ppm	1.2656 ppm	0.1255 ppm	0.1463 ppm	-0.0013 ppm
Concentration RSD	1.1 %	0.5 %	40.7 %	0.6 %	1.0 %	1.5 %	29,573.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0063 ppm	5.1381 ppm	0.0066 ppm	0.2860 ppm	2.9039 ppm	0.0053 ppm	0.2569 ppm
Concentration per Run 1	-0.0052 ppm	5.2081 ppm	0.0075 ppm	0.2854 ppm	2.9501 ppm	0.0052 ppm	0.2601 ppm
Concentration per Run 2	-0.0079 ppm	5.1135 ppm	0.0069 ppm	0.2863 ppm	2.8903 ppm	0.0057 ppm	0.2555 ppm
Concentration per Run 3	-0.0058 ppm	5.0928 ppm	0.0055 ppm	0.2862 ppm	2.8713 ppm	0.0051 ppm	0.2552 ppm
Concentration RSD	21.8 %	1.2 %	15.2 %	0.2 %	1.4 %	6.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4537 ppm	110.5089 %	110.7258 %	99.3322 %	134.8912 %	134.4699 %	131.2258 %
Concentration per Run 1	0.4590 ppm	109.9639 %	110.7936 %	99.6812 %	133.7714 %	134.7365 %	131.6629 %
Concentration per Run 2	0.4517 ppm	110.8534 %	110.7223 %	99.4259 %	135.7989 %	134.8302 %	130.8641 %
Concentration per Run 3	0.4504 ppm	110.7095 %	110.6615 %	98.8895 %	135.1032 %	133.8430 %	131.1503 %
Concentration RSD	1.0 %	0.4 %	0.1 %	0.4 %	0.8 %	0.4 %	0.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432523-04D2 WG1935294
Analysis started at: 6/18/2024 9:38:26 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0035 ppm	60.2597 ppm	0.0314 ppm	0.0350 ppm	0.3511 ppm	0.0031 ppm	32.2735 ppm
Concentration per Run 1	0.0034 ppm	59.7880 ppm	0.0289 ppm	0.0351 ppm	0.3508 ppm	0.0030 ppm	32.1001 ppm
Concentration per Run 2	0.0036 ppm	60.0452 ppm	0.0303 ppm	0.0330 ppm	0.3502 ppm	0.0031 ppm	32.1492 ppm
Concentration per Run 3	0.0033 ppm	60.9458 ppm	0.0349 ppm	0.0368 ppm	0.3522 ppm	0.0031 ppm	32.5712 ppm
Concentration RSD	4.8 %	1.0 %	10.0 %	5.6 %	0.3 %	1.3 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0029 ppm	0.0472 ppm	0.1130 ppm	0.1690 ppm	119.9999 ppm	5.4520 ppm	0.0765 ppm
Concentration per Run 1	-0.0029 ppm	0.0473 ppm	0.1144 ppm	0.1685 ppm	119.0713 ppm	5.4279 ppm	0.0760 ppm
Concentration per Run 2	-0.0029 ppm	0.0473 ppm	0.1119 ppm	0.1693 ppm	119.6168 ppm	5.4003 ppm	0.0757 ppm
Concentration per Run 3	-0.0030 ppm	0.0471 ppm	0.1128 ppm	0.1691 ppm	121.3116 ppm	5.5280 ppm	0.0778 ppm
Concentration RSD	1.2 %	0.3 %	1.1 %	0.3 %	1.0 %	1.2 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.9801 ppm	2.2055 ppm	-0.0008 ppm	0.9256 ppm	0.0933 ppm	0.1183 ppm	-0.0013 ppm
Concentration per Run 1	23.1929 ppm	2.1883 ppm	-0.0006 ppm	0.9184 ppm	0.0954 ppm	0.1153 ppm	-0.0013 ppm
Concentration per Run 2	22.8217 ppm	2.1973 ppm	-0.0007 ppm	0.9216 ppm	0.0913 ppm	0.1188 ppm	-0.0056 ppm
Concentration per Run 3	22.9258 ppm	2.2308 ppm	-0.0010 ppm	0.9370 ppm	0.0933 ppm	0.1208 ppm	0.0030 ppm
Concentration RSD	0.8 %	1.0 %	30.4 %	1.1 %	2.2 %	2.3 %	338.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	4.8193 ppm	0.0051 ppm	0.1257 ppm	2.2863 ppm	0.0025 ppm	0.1912 ppm
Concentration per Run 1	-0.0077 ppm	4.8387 ppm	0.0043 ppm	0.1250 ppm	2.3055 ppm	0.0016 ppm	0.1922 ppm
Concentration per Run 2	-0.0030 ppm	4.8060 ppm	0.0057 ppm	0.1252 ppm	2.2769 ppm	0.0026 ppm	0.1905 ppm
Concentration per Run 3	-0.0034 ppm	4.8131 ppm	0.0054 ppm	0.1268 ppm	2.2766 ppm	0.0033 ppm	0.1909 ppm
Concentration RSD	55.2 %	0.4 %	14.2 %	0.8 %	0.7 %	34.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3269 ppm	109.0678 %	109.0182 %	103.0705 %	125.1942 %	123.5058 %	124.3293 %
Concentration per Run 1	0.3301 ppm	108.9528 %	109.6572 %	105.9085 %	125.0999 %	123.8278 %	127.6035 %
Concentration per Run 2	0.3255 ppm	109.1616 %	109.7068 %	103.3807 %	125.6332 %	124.3027 %	124.3881 %
Concentration per Run 3	0.3249 ppm	109.0891 %	107.6905 %	99.9224 %	124.8495 %	122.3870 %	120.9962 %
Concentration RSD	0.9 %	0.1 %	1.1 %	2.9 %	0.3 %	0.8 %	2.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432523-05D2 WG1935294
Analysis started at: 6/18/2024 9:41:54 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0043 ppm	75.8392 ppm	0.0313 ppm	0.0426 ppm	0.4747 ppm	0.0039 ppm	42.6440 ppm
Concentration per Run 1	0.0043 ppm	75.7312 ppm	0.0323 ppm	0.0421 ppm	0.4755 ppm	0.0039 ppm	42.6437 ppm
Concentration per Run 2	0.0042 ppm	76.3334 ppm	0.0307 ppm	0.0422 ppm	0.4775 ppm	0.0040 ppm	42.8507 ppm
Concentration per Run 3	0.0045 ppm	75.4529 ppm	0.0308 ppm	0.0435 ppm	0.4712 ppm	0.0039 ppm	42.4377 ppm
Concentration RSD	3.3 %	0.6 %	3.0 %	1.9 %	0.7 %	1.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0037 ppm	0.0716 ppm	0.1463 ppm	0.2161 ppm	155.7867 ppm	6.8639 ppm	0.1017 ppm
Concentration per Run 1	-0.0036 ppm	0.0726 ppm	0.1462 ppm	0.2179 ppm	155.5652 ppm	6.8677 ppm	0.1019 ppm
Concentration per Run 2	-0.0038 ppm	0.0712 ppm	0.1465 ppm	0.2148 ppm	156.9974 ppm	6.9044 ppm	0.1020 ppm
Concentration per Run 3	-0.0036 ppm	0.0710 ppm	0.1463 ppm	0.2156 ppm	154.7974 ppm	6.8195 ppm	0.1013 ppm
Concentration RSD	3.0 %	1.2 %	0.1 %	0.8 %	0.7 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.8301 ppm	3.8071 ppm	-0.0007 ppm	1.1581 ppm	0.1195 ppm	0.1439 ppm	0.0000 ppm
Concentration per Run 1	30.8440 ppm	3.7988 ppm	0.0002 ppm	1.1539 ppm	0.1195 ppm	0.1438 ppm	-0.0017 ppm
Concentration per Run 2	30.8595 ppm	3.8414 ppm	-0.0013 ppm	1.1690 ppm	0.1196 ppm	0.1431 ppm	-0.0007 ppm
Concentration per Run 3	30.7869 ppm	3.7809 ppm	-0.0008 ppm	1.1515 ppm	0.1193 ppm	0.1447 ppm	0.0022 ppm
Concentration RSD	0.1 %	0.8 %	111.7 %	0.8 %	0.1 %	0.6 %	4,088.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0045 ppm	4.6326 ppm	0.0071 ppm	0.1596 ppm	2.9282 ppm	0.0041 ppm	0.2477 ppm
Concentration per Run 1	-0.0035 ppm	4.7043 ppm	0.0072 ppm	0.1594 ppm	2.9244 ppm	0.0041 ppm	0.2487 ppm
Concentration per Run 2	-0.0049 ppm	4.6120 ppm	0.0074 ppm	0.1607 ppm	2.9353 ppm	0.0044 ppm	0.2470 ppm
Concentration per Run 3	-0.0052 ppm	4.5815 ppm	0.0067 ppm	0.1586 ppm	2.9248 ppm	0.0038 ppm	0.2472 ppm
Concentration RSD	20.4 %	1.4 %	4.9 %	0.6 %	0.2 %	7.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4080 ppm	111.6836 %	109.9945 %	101.5794 %	135.1655 %	132.5957 %	131.5644 %
Concentration per Run 1	0.4093 ppm	112.0017 %	110.2624 %	100.9017 %	136.0701 %	133.1281 %	130.9253 %
Concentration per Run 2	0.4058 ppm	112.2156 %	109.3703 %	102.2945 %	135.1801 %	131.4372 %	132.4910 %
Concentration per Run 3	0.4088 ppm	110.8335 %	110.3508 %	101.5419 %	134.2463 %	133.2217 %	131.2769 %
Concentration RSD	0.5 %	0.7 %	0.5 %	0.7 %	0.7 %	0.8 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432614-01D2 WG1935294
Analysis started at: 6/18/2024 9:45:23 AM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0037 ppm	100.0301 ppm	0.0425 ppm	0.0931 ppm	0.9995 ppm	0.0056 ppm	664.5255 ppm
Concentration per Run 1	0.0044 ppm	100.8305 ppm	0.0446 ppm	0.0917 ppm	1.0004 ppm	0.0057 ppm	666.3288 ppm
Concentration per Run 2	0.0032 ppm	99.9724 ppm	0.0419 ppm	0.0942 ppm	0.9995 ppm	0.0056 ppm	664.3294 ppm
Concentration per Run 3	0.0035 ppm	99.2875 ppm	0.0408 ppm	0.0935 ppm	0.9987 ppm	0.0055 ppm	662.9183 ppm
Concentration RSD	16.0 %	0.8 %	4.6 %	1.4 %	0.1 %	1.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0026 ppm	0.0559 ppm	0.1946 ppm	0.4549 ppm	145.9588 ppm	5.6990 ppm	0.0789 ppm
Concentration per Run 1	-0.0027 ppm	0.0561 ppm	0.1951 ppm	0.4529 ppm	147.1858 ppm	5.7382 ppm	0.0793 ppm
Concentration per Run 2	-0.0025 ppm	0.0567 ppm	0.1941 ppm	0.4547 ppm	146.1180 ppm	5.6591 ppm	0.0796 ppm
Concentration per Run 3	-0.0026 ppm	0.0548 ppm	0.1945 ppm	0.4572 ppm	144.5727 ppm	5.6998 ppm	0.0777 ppm
Concentration RSD	3.7 %	1.7 %	0.2 %	0.5 %	0.9 %	0.7 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.4767 ppm	3.1403 ppm	0.0051 ppm	23.2336 ppm	0.1421 ppm	0.6336 ppm	-0.0002 ppm
Concentration per Run 1	67.6310 ppm	3.1491 ppm	0.0052 ppm	23.3444 ppm	0.1419 ppm	0.6482 ppm	0.0016 ppm
Concentration per Run 2	67.3523 ppm	3.1431 ppm	0.0054 ppm	23.2992 ppm	0.1418 ppm	0.6349 ppm	-0.0008 ppm
Concentration per Run 3	67.4468 ppm	3.1286 ppm	0.0047 ppm	23.0572 ppm	0.1425 ppm	0.6176 ppm	-0.0014 ppm
Concentration RSD	0.2 %	0.3 %	6.9 %	0.7 %	0.3 %	2.4 %	837.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0218 ppm	7.7045 ppm	0.0283 ppm	2.3722 ppm	4.8052 ppm	0.0083 ppm	0.2372 ppm
Concentration per Run 1	-0.0237 ppm	7.6933 ppm	0.0282 ppm	2.3868 ppm	4.8195 ppm	0.0095 ppm	0.2375 ppm
Concentration per Run 2	-0.0188 ppm	7.6592 ppm	0.0279 ppm	2.3710 ppm	4.7850 ppm	0.0087 ppm	0.2377 ppm
Concentration per Run 3	-0.0228 ppm	7.7610 ppm	0.0288 ppm	2.3589 ppm	4.8110 ppm	0.0067 ppm	0.2363 ppm
Concentration RSD	11.8 %	0.7 %	1.5 %	0.6 %	0.4 %	17.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0572 ppm	100.1615 %	105.1241 %	88.8384 %	117.2639 %	123.0104 %	117.2129 %
Concentration per Run 1	1.0565 ppm	100.1639 %	105.5071 %	87.9848 %	116.9626 %	123.5933 %	116.7560 %
Concentration per Run 2	1.0593 ppm	100.1912 %	104.3103 %	87.3234 %	117.1332 %	121.9762 %	115.4974 %
Concentration per Run 3	1.0558 ppm	100.1293 %	105.5548 %	91.2070 %	117.6960 %	123.4616 %	119.3852 %
Concentration RSD	0.2 %	0.0 %	0.7 %	2.3 %	0.3 %	0.7 %	1.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-01D2 WG1935294
Analysis started at: 6/18/2024 9:48:52 AM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0058 ppm	153.0898 ppm	0.1079 ppm	0.0053 ppm	1.2078 ppm	0.0122 ppm	13.8736 ppm
Concentration per Run 1	0.0058 ppm	153.9809 ppm	0.1074 ppm	0.0070 ppm	1.2162 ppm	0.0123 ppm	13.9482 ppm
Concentration per Run 2	0.0055 ppm	153.5835 ppm	0.1080 ppm	0.0043 ppm	1.2091 ppm	0.0122 ppm	13.9109 ppm
Concentration per Run 3	0.0062 ppm	151.7050 ppm	0.1082 ppm	0.0046 ppm	1.1981 ppm	0.0121 ppm	13.7615 ppm
Concentration RSD	6.6 %	0.8 %	0.4 %	28.2 %	0.8 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0017 ppm	0.0787 ppm	0.1954 ppm	0.2789 ppm	201.7832 ppm	7.3500 ppm	0.0897 ppm
Concentration per Run 1	-0.0016 ppm	0.0810 ppm	0.1980 ppm	0.2835 ppm	203.0677 ppm	7.4357 ppm	0.0898 ppm
Concentration per Run 2	-0.0020 ppm	0.0766 ppm	0.1949 ppm	0.2784 ppm	202.1746 ppm	7.3506 ppm	0.0901 ppm
Concentration per Run 3	-0.0015 ppm	0.0784 ppm	0.1933 ppm	0.2748 ppm	200.1074 ppm	7.2637 ppm	0.0893 ppm
Concentration RSD	14.8 %	2.8 %	1.2 %	1.6 %	0.8 %	1.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.4578 ppm	11.6568 ppm	0.0077 ppm	0.1278 ppm	0.1121 ppm	0.2899 ppm	-0.0018 ppm
Concentration per Run 1	16.7025 ppm	11.7374 ppm	0.0079 ppm	0.1316 ppm	0.1136 ppm	0.2906 ppm	0.0025 ppm
Concentration per Run 2	16.3949 ppm	11.7064 ppm	0.0072 ppm	0.1294 ppm	0.1112 ppm	0.2877 ppm	-0.0036 ppm
Concentration per Run 3	16.2761 ppm	11.5265 ppm	0.0081 ppm	0.1225 ppm	0.1116 ppm	0.2912 ppm	-0.0044 ppm
Concentration RSD	1.3 %	1.0 %	6.0 %	3.7 %	1.1 %	0.6 %	207.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0073 ppm	5.9908 ppm	0.0117 ppm	0.0446 ppm	1.3582 ppm	0.0051 ppm	0.3220 ppm
Concentration per Run 1	-0.0140 ppm	6.0876 ppm	0.0121 ppm	0.0448 ppm	1.3742 ppm	0.0042 ppm	0.3275 ppm
Concentration per Run 2	-0.0031 ppm	5.9583 ppm	0.0120 ppm	0.0445 ppm	1.3528 ppm	0.0068 ppm	0.3200 ppm
Concentration per Run 3	-0.0047 ppm	5.9266 ppm	0.0111 ppm	0.0445 ppm	1.3476 ppm	0.0043 ppm	0.3186 ppm
Concentration RSD	80.6 %	1.4 %	4.7 %	0.4 %	1.0 %	29.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.5389 ppm	108.9030 %	108.2614 %	99.8513 %	**264.5893 %**	**261.0879 %**	**264.1707 %**
Concentration per Run 1	1.5549 ppm	109.6104 %	108.1427 %	99.2625 %	**268.5122 %**	**261.1357 %**	**263.8597 %**
Concentration per Run 2	1.5300 ppm	109.3744 %	107.6646 %	100.5479 %	**264.4827 %**	**260.2108 %**	**266.1589 %**
Concentration per Run 3	1.5318 ppm	107.7244 %	108.9770 %	99.7437 %	**260.7732 %**	**261.9172 %**	**262.4936 %**
Concentration RSD	0.9 %	0.9 %	0.6 %	0.7 %	**1.5 %**	**0.3 %**	**0.7 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-03D2 WG1935294
Analysis started at: 6/18/2024 9:52:21 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	127.1896 ppm	0.0846 ppm	0.0061 ppm	0.9403 ppm	0.0089 ppm	12.7290 ppm
Concentration per Run 1	0.0051 ppm	127.9188 ppm	0.0851 ppm	0.0053 ppm	0.9422 ppm	0.0089 ppm	12.8118 ppm
Concentration per Run 2	0.0052 ppm	127.6641 ppm	0.0853 ppm	0.0063 ppm	0.9440 ppm	0.0090 ppm	12.7597 ppm
Concentration per Run 3	0.0055 ppm	125.9860 ppm	0.0834 ppm	0.0066 ppm	0.9347 ppm	0.0089 ppm	12.6156 ppm
Concentration RSD	3.7 %	0.8 %	1.3 %	11.6 %	0.5 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0016 ppm	0.0736 ppm	0.1769 ppm	0.2170 ppm	183.0961 ppm	6.0528 ppm	0.0834 ppm
Concentration per Run 1	-0.0015 ppm	0.0740 ppm	0.1762 ppm	0.2167 ppm	183.3232 ppm	6.1029 ppm	0.0833 ppm
Concentration per Run 2	-0.0015 ppm	0.0741 ppm	0.1793 ppm	0.2180 ppm	183.6023 ppm	6.0159 ppm	0.0836 ppm
Concentration per Run 3	-0.0016 ppm	0.0727 ppm	0.1752 ppm	0.2163 ppm	182.3628 ppm	6.0397 ppm	0.0832 ppm
Concentration RSD	3.4 %	1.0 %	1.2 %	0.4 %	0.4 %	0.7 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1515 ppm	7.9828 ppm	0.0060 ppm	0.1227 ppm	0.0961 ppm	0.2225 ppm	-0.0059 ppm
Concentration per Run 1	15.0832 ppm	8.0261 ppm	0.0061 ppm	0.1241 ppm	0.0955 ppm	0.2256 ppm	-0.0070 ppm
Concentration per Run 2	15.2868 ppm	8.0125 ppm	0.0060 ppm	0.1228 ppm	0.0977 ppm	0.2210 ppm	-0.0062 ppm
Concentration per Run 3	15.0845 ppm	7.9098 ppm	0.0058 ppm	0.1212 ppm	0.0950 ppm	0.2209 ppm	-0.0045 ppm
Concentration RSD	0.8 %	0.8 %	2.7 %	1.2 %	1.5 %	1.2 %	22.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0040 ppm	6.3168 ppm	0.0086 ppm	0.0403 ppm	1.3817 ppm	0.0046 ppm	0.2898 ppm
Concentration per Run 1	-0.0080 ppm	6.3353 ppm	0.0087 ppm	0.0403 ppm	1.3694 ppm	0.0038 ppm	0.2895 ppm
Concentration per Run 2	-0.0034 ppm	6.3893 ppm	0.0082 ppm	0.0406 ppm	1.3998 ppm	0.0055 ppm	0.2924 ppm
Concentration per Run 3	-0.0007 ppm	6.2258 ppm	0.0089 ppm	0.0400 ppm	1.3760 ppm	0.0047 ppm	0.2874 ppm
Concentration RSD	91.6 %	1.3 %	3.9 %	0.7 %	1.2 %	18.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3435 ppm	109.3279 %	109.2564 %	99.7770 %	**205.6303 %**	**201.1479 %**	**202.2962 %**
Concentration per Run 1	1.3454 ppm	109.5817 %	109.8997 %	99.8478 %	**206.0809 %**	**203.2063 %**	**203.9014 %**
Concentration per Run 2	1.3570 ppm	108.7206 %	108.6737 %	99.8796 %	**205.0559 %**	**200.4549 %**	**201.9867 %**
Concentration per Run 3	1.3280 ppm	109.6814 %	109.1959 %	99.6035 %	**205.7541 %**	**199.7824 %**	**201.0005 %**
Concentration RSD	1.1 %	0.5 %	0.6 %	0.2 %	**0.3 %**	**0.9 %**	**0.7 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:55:51 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4726 ppm	0.5027 ppm	0.4613 ppm	0.4662 ppm	0.4876 ppm	0.5019 ppm	0.4675 ppm
Concentration per Run 1	0.4730 ppm	0.4980 ppm	0.4630 ppm	0.4624 ppm	0.4866 ppm	0.4982 ppm	0.4722 ppm
Concentration per Run 2	0.4667 ppm	0.4960 ppm	0.4613 ppm	0.4648 ppm	0.4837 ppm	0.4993 ppm	0.4584 ppm
Concentration per Run 3	0.4782 ppm	0.5142 ppm	0.4594 ppm	0.4714 ppm	0.4925 ppm	0.5083 ppm	0.4719 ppm
Recovery Percentage 1	94.529 %	100.543 %	92.253 %	93.237 %	97.522 %	100.386 %	93.508 %
Concentration RSD	1.2 %	2.0 %	0.4 %	1.0 %	0.9 %	1.1 %	1.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4666 ppm	0.4781 ppm	0.4619 ppm	0.4683 ppm	0.5011 ppm	5.0106 ppm	0.4886 ppm
Concentration per Run 1	0.4645 ppm	0.4744 ppm	0.4600 ppm	0.4671 ppm	0.5007 ppm	5.0094 ppm	0.4922 ppm
Concentration per Run 2	0.4617 ppm	0.4759 ppm	0.4599 ppm	0.4648 ppm	0.4959 ppm	4.9574 ppm	0.4828 ppm
Concentration per Run 3	0.4735 ppm	0.4841 ppm	0.4658 ppm	0.4729 ppm	0.5067 ppm	5.0652 ppm	0.4909 ppm
Recovery Percentage 1	93.312 %	95.630 %	92.380 %	93.653 %	100.219 %	100.212 %	97.729 %
Concentration RSD	1.3 %	1.1 %	0.7 %	0.9 %	1.1 %	1.1 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4556 ppm	0.4746 ppm	0.4793 ppm	9.6413 ppm	0.4784 ppm	0.4812 ppm	0.4763 ppm
Concentration per Run 1	0.4546 ppm	0.4720 ppm	0.4750 ppm	9.6116 ppm	0.4748 ppm	0.4804 ppm	0.4743 ppm
Concentration per Run 2	0.4534 ppm	0.4737 ppm	0.4749 ppm	9.5798 ppm	0.4787 ppm	0.4818 ppm	0.4716 ppm
Concentration per Run 3	0.4589 ppm	0.4781 ppm	0.4881 ppm	9.7326 ppm	0.4818 ppm	0.4814 ppm	0.4829 ppm
Recovery Percentage 1	91.121 %	94.918 %	95.865 %	96.413 %	95.688 %	96.240 %	95.257 %
Concentration RSD	0.6 %	0.7 %	1.6 %	0.8 %	0.7 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4726 ppm	5.2936 ppm	0.4904 ppm	0.4959 ppm	0.4703 ppm	0.4847 ppm	0.4621 ppm
Concentration per Run 1	0.4699 ppm	5.2677 ppm	0.4891 ppm	0.4948 ppm	0.4691 ppm	0.4813 ppm	0.4625 ppm
Concentration per Run 2	0.4734 ppm	5.2348 ppm	0.4888 ppm	0.4920 ppm	0.4672 ppm	0.4882 ppm	0.4598 ppm
Concentration per Run 3	0.4745 ppm	5.3784 ppm	0.4932 ppm	0.5009 ppm	0.4747 ppm	0.4846 ppm	0.4641 ppm
Recovery Percentage 1	94.520 %	100.831 %	98.071 %	99.179 %	94.067 %	96.945 %	92.424 %
Concentration RSD	0.5 %	1.4 %	0.5 %	0.9 %	0.8 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4721 ppm	108.0145 %	103.1205 %	103.8779 %	108.5921 %	102.6553 %	105.4757 %
Concentration per Run 1	0.4693 ppm	108.2948 %	102.5985 %	105.2475 %	108.5483 %	102.2089 %	106.6935 %
Concentration per Run 2	0.4721 ppm	107.5094 %	104.3008 %	102.8322 %	108.2759 %	103.5572 %	104.3613 %
Concentration per Run 3	0.4749 ppm	108.2393 %	102.4621 %	103.5540 %	108.9520 %	102.1998 %	105.3722 %
Recovery Percentage 1	94.415 %						
Concentration RSD	0.6 %	0.4 %	1.0 %	1.2 %	0.3 %	0.8 %	1.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:59:20 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0185 ppm	-0.0013 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm	0.0050 ppm
Concentration per Run 1	0.0006 ppm	0.0155 ppm	0.0003 ppm	0.0026 ppm	0.0003 ppm	0.0002 ppm	0.0081 ppm
Concentration per Run 2	0.0002 ppm	0.0250 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 3	0.0009 ppm	0.0151 ppm	-0.0046 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0045 ppm
Recovery Percentage 1	7.746 %	18.524 %	-26.966 %	3.906 %	1.762 %	3.842 %	5.033 %
Concentration RSD	64.8 %	30.1 %	211.9 %	105.0 %	60.2 %	14.9 %	56.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0037 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0047 ppm	-0.0060 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0029 ppm	0.0086 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0034 ppm	-0.0050 ppm	-0.0001 ppm
Recovery Percentage 1	6.083 %	-0.740 %	-1.999 %	-0.529 %	7.332 %	-0.032 %	11.032 %
Concentration RSD	39.9 %	218.3 %	77.1 %	255.2 %	24.8 %	1,021.8 %	189.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0037 ppm	0.0002 ppm	0.0000 ppm	-0.0173 ppm	-0.0008 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 1	-0.0052 ppm	0.0001 ppm	0.0004 ppm	-0.0171 ppm	-0.0014 ppm	0.0006 ppm	0.0032 ppm
Concentration per Run 2	-0.0052 ppm	0.0003 ppm	0.0005 ppm	-0.0192 ppm	-0.0007 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.0003 ppm	-0.0009 ppm	-0.0155 ppm	-0.0003 ppm	-0.0016 ppm	0.0021 ppm
Recovery Percentage 1	-3.692 %	2.466 %	-0.047 %	-0.863 %	-3.072 %	-7.283 %	3.651 %
Concentration RSD	70.3 %	54.5 %	3,339.3 %	10.7 %	73.1 %	162.2 %	86.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0114 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0008 ppm	0.0116 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0098 ppm	0.0009 ppm	0.0002 ppm	-0.0004 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0014 ppm	0.0128 ppm	-0.0005 ppm	0.0001 ppm	-0.0004 ppm	0.0019 ppm	-0.0002 ppm
Recovery Percentage 1	0.422 %	2.279 %	0.449 %	1.817 %	-3.685 %	2.801 %	-0.647 %
Concentration RSD	2,818.6 %	13.4 %	312.7 %	21.2 %	12.3 %	255.1 %	312.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	105.5123 %	103.7493 %	104.1442 %	107.5404 %	103.5734 %	105.6679 %
Concentration per Run 1	-0.0005 ppm	105.3123 %	105.3857 %	104.4362 %	107.2852 %	104.6131 %	106.2049 %
Concentration per Run 2	-0.0002 ppm	106.3497 %	101.0419 %	105.2755 %	108.5270 %	101.3086 %	106.5038 %
Concentration per Run 3	0.0000 ppm	104.8751 %	104.8203 %	102.7209 %	106.8089 %	104.7987 %	104.2950 %
Recovery Percentage 1	-5.102 %						
Concentration RSD	97.5 %	0.7 %	2.3 %	1.3 %	0.8 %	1.9 %	1.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-05D2 WG1935294
Analysis started at: 6/18/2024 10:04:14 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0081 ppm	127.2990 ppm	0.1080 ppm	0.0050 ppm	1.0430 ppm	0.0141 ppm	14.5556 ppm
Concentration per Run 1	0.0083 ppm	127.4979 ppm	0.1072 ppm	0.0048 ppm	1.0466 ppm	0.0142 ppm	14.6183 ppm
Concentration per Run 2	0.0076 ppm	127.2841 ppm	0.1081 ppm	0.0051 ppm	1.0385 ppm	0.0140 ppm	14.5814 ppm
Concentration per Run 3	0.0085 ppm	127.1151 ppm	0.1087 ppm	0.0049 ppm	1.0440 ppm	0.0142 ppm	14.4670 ppm
Concentration RSD	5.9 %	0.2 %	0.7 %	3.0 %	0.4 %	0.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0039 ppm	0.1025 ppm	0.1577 ppm	0.1762 ppm	258.7726 ppm	6.2054 ppm	0.0847 ppm
Concentration per Run 1	-0.0038 ppm	0.1010 ppm	0.1564 ppm	0.1741 ppm	260.0775 ppm	6.2491 ppm	0.0854 ppm
Concentration per Run 2	-0.0039 ppm	0.1031 ppm	0.1581 ppm	0.1769 ppm	257.0784 ppm	6.1702 ppm	0.0847 ppm
Concentration per Run 3	-0.0040 ppm	0.1035 ppm	0.1586 ppm	0.1775 ppm	259.1620 ppm	6.1968 ppm	0.0841 ppm
Concentration RSD	2.7 %	1.3 %	0.7 %	1.0 %	0.6 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.7102 ppm	10.2868 ppm	0.0062 ppm	0.1395 ppm	0.1230 ppm	0.2615 ppm	-0.0047 ppm
Concentration per Run 1	15.6965 ppm	10.3173 ppm	0.0064 ppm	0.1326 ppm	0.1219 ppm	0.2606 ppm	-0.0024 ppm
Concentration per Run 2	15.6902 ppm	10.2599 ppm	0.0065 ppm	0.1449 ppm	0.1227 ppm	0.2620 ppm	-0.0029 ppm
Concentration per Run 3	15.7439 ppm	10.2832 ppm	0.0058 ppm	0.1409 ppm	0.1244 ppm	0.2618 ppm	-0.0087 ppm
Concentration RSD	0.2 %	0.3 %	6.3 %	4.5 %	1.0 %	0.3 %	75.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0074 ppm	5.7955 ppm	0.0108 ppm	0.0473 ppm	1.2842 ppm	0.0064 ppm	0.2960 ppm
Concentration per Run 1	-0.0044 ppm	5.7432 ppm	0.0107 ppm	0.0475 ppm	1.2783 ppm	0.0062 ppm	0.2942 ppm
Concentration per Run 2	-0.0103 ppm	5.8378 ppm	0.0103 ppm	0.0470 ppm	1.2820 ppm	0.0056 ppm	0.2966 ppm
Concentration per Run 3	-0.0076 ppm	5.8053 ppm	0.0114 ppm	0.0473 ppm	1.2923 ppm	0.0076 ppm	0.2973 ppm
Concentration RSD	39.8 %	0.8 %	5.1 %	0.5 %	0.6 %	16.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3967 ppm	109.9030 %	110.6418 %	98.9225 %	**281.8402 %**	**289.5645 %**	**282.6127 %**
Concentration per Run 1	1.3843 ppm	110.4191 %	110.1517 %	99.0420 %	**281.2268 %**	**288.4083 %**	**282.7671 %**
Concentration per Run 2	1.3995 ppm	110.4240 %	110.9609 %	99.1581 %	**283.6502 %**	**291.1268 %**	**283.9356 %**
Concentration per Run 3	1.4063 ppm	108.8658 %	110.8128 %	98.5675 %	**280.6436 %**	**289.1585 %**	**281.1355 %**
Concentration RSD	0.8 %	0.8 %	0.4 %	0.3 %	**0.6 %**	**0.5 %**	**0.5 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-07D2 WG1935294
Analysis started at: 6/18/2024 10:07:53 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0071 ppm	133.2910 ppm	0.1135 ppm	0.0066 ppm	1.1488 ppm	0.0125 ppm	16.9557 ppm
Concentration per Run 1	0.0066 ppm	132.8147 ppm	0.1165 ppm	0.0058 ppm	1.1454 ppm	0.0125 ppm	16.9908 ppm
Concentration per Run 2	0.0071 ppm	132.1817 ppm	0.1083 ppm	0.0077 ppm	1.1395 ppm	0.0124 ppm	16.7530 ppm
Concentration per Run 3	0.0076 ppm	134.8766 ppm	0.1157 ppm	0.0063 ppm	1.1616 ppm	0.0127 ppm	17.1232 ppm
Concentration RSD	7.1 %	1.1 %	4.0 %	14.8 %	1.0 %	1.0 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0014 ppm	0.0913 ppm	0.1897 ppm	0.2798 ppm	220.8709 ppm	5.8193 ppm	0.1157 ppm
Concentration per Run 1	-0.0014 ppm	0.0899 ppm	0.1882 ppm	0.2777 ppm	220.3704 ppm	5.7969 ppm	0.1160 ppm
Concentration per Run 2	-0.0014 ppm	0.0919 ppm	0.1914 ppm	0.2831 ppm	219.3668 ppm	5.7699 ppm	0.1141 ppm
Concentration per Run 3	-0.0014 ppm	0.0921 ppm	0.1897 ppm	0.2787 ppm	222.8754 ppm	5.8912 ppm	0.1171 ppm
Concentration RSD	0.9 %	1.3 %	0.9 %	1.0 %	0.8 %	1.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.9919 ppm	10.8282 ppm	0.0058 ppm	0.1653 ppm	0.1325 ppm	0.2823 ppm	-0.0050 ppm
Concentration per Run 1	20.9019 ppm	10.8044 ppm	0.0061 ppm	0.1696 ppm	0.1311 ppm	0.2821 ppm	-0.0040 ppm
Concentration per Run 2	21.1017 ppm	10.7657 ppm	0.0053 ppm	0.1610 ppm	0.1328 ppm	0.2825 ppm	-0.0040 ppm
Concentration per Run 3	20.9722 ppm	10.9145 ppm	0.0060 ppm	0.1653 ppm	0.1337 ppm	0.2822 ppm	-0.0069 ppm
Concentration RSD	0.5 %	0.7 %	6.9 %	2.6 %	1.0 %	0.1 %	33.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0075 ppm	7.0738 ppm	0.0160 ppm	0.0506 ppm	1.5700 ppm	0.0057 ppm	0.2976 ppm
Concentration per Run 1	-0.0094 ppm	7.0189 ppm	0.0164 ppm	0.0507 ppm	1.5618 ppm	0.0045 ppm	0.2959 ppm
Concentration per Run 2	-0.0043 ppm	7.1379 ppm	0.0154 ppm	0.0502 ppm	1.5734 ppm	0.0053 ppm	0.2994 ppm
Concentration per Run 3	-0.0088 ppm	7.0646 ppm	0.0164 ppm	0.0511 ppm	1.5746 ppm	0.0073 ppm	0.2975 ppm
Concentration RSD	37.5 %	0.8 %	3.7 %	0.9 %	0.5 %	25.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.5724 ppm	109.4796 %	109.4020 %	100.4451 %	**253.0646 %**	**252.8341 %**	**254.2232 %**
Concentration per Run 1	1.5630 ppm	110.6833 %	108.9645 %	100.2684 %	**255.0755 %**	**251.5870 %**	**253.9777 %**
Concentration per Run 2	1.5821 ppm	108.0536 %	110.7646 %	101.4416 %	**250.8541 %**	**254.1651 %**	**257.0488 %**
Concentration per Run 3	1.5720 ppm	109.7019 %	108.4768 %	99.6252 %	**253.2642 %**	**252.7502 %**	**251.6432 %**
Concentration RSD	0.6 %	1.2 %	1.1 %	0.9 %	**0.8 %**	**0.5 %**	**1.1 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-09D2 WG1935294
Analysis started at: 6/18/2024 10:11:23 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0057 ppm	112.6606 ppm	0.0859 ppm	0.0059 ppm	0.7818 ppm	0.0088 ppm	14.8213 ppm
Concentration per Run 1	0.0062 ppm	111.6875 ppm	0.0843 ppm	0.0063 ppm	0.7828 ppm	0.0088 ppm	14.7106 ppm
Concentration per Run 2	0.0048 ppm	113.4065 ppm	0.0880 ppm	0.0065 ppm	0.7764 ppm	0.0088 ppm	14.9024 ppm
Concentration per Run 3	0.0062 ppm	112.8878 ppm	0.0853 ppm	0.0050 ppm	0.7864 ppm	0.0088 ppm	14.8510 ppm
Concentration RSD	14.3 %	0.8 %	2.2 %	14.2 %	0.6 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0015 ppm	0.0668 ppm	0.1673 ppm	0.1377 ppm	189.0553 ppm	5.0926 ppm	0.0750 ppm
Concentration per Run 1	-0.0013 ppm	0.0677 ppm	0.1706 ppm	0.1400 ppm	188.7893 ppm	5.0749 ppm	0.0758 ppm
Concentration per Run 2	-0.0016 ppm	0.0658 ppm	0.1646 ppm	0.1353 ppm	188.2764 ppm	5.0978 ppm	0.0741 ppm
Concentration per Run 3	-0.0015 ppm	0.0668 ppm	0.1666 ppm	0.1376 ppm	190.1003 ppm	5.1052 ppm	0.0752 ppm
Concentration RSD	11.2 %	1.5 %	1.8 %	1.7 %	0.5 %	0.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5163 ppm	6.9465 ppm	0.0055 ppm	0.1157 ppm	0.0902 ppm	0.2382 ppm	-0.0041 ppm
Concentration per Run 1	14.7638 ppm	6.8895 ppm	0.0053 ppm	0.1167 ppm	0.0905 ppm	0.2346 ppm	-0.0055 ppm
Concentration per Run 2	14.3515 ppm	6.9829 ppm	0.0058 ppm	0.1164 ppm	0.0908 ppm	0.2421 ppm	-0.0051 ppm
Concentration per Run 3	14.4336 ppm	6.9672 ppm	0.0053 ppm	0.1140 ppm	0.0892 ppm	0.2380 ppm	-0.0017 ppm
Concentration RSD	1.5 %	0.7 %	5.2 %	1.3 %	1.0 %	1.6 %	51.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0068 ppm	6.8830 ppm	0.0100 ppm	0.0378 ppm	1.3980 ppm	0.0046 ppm	0.2871 ppm
Concentration per Run 1	-0.0069 ppm	6.9550 ppm	0.0104 ppm	0.0379 ppm	1.4225 ppm	0.0034 ppm	0.2921 ppm
Concentration per Run 2	-0.0076 ppm	6.8573 ppm	0.0106 ppm	0.0374 ppm	1.3829 ppm	0.0042 ppm	0.2836 ppm
Concentration per Run 3	-0.0058 ppm	6.8366 ppm	0.0090 ppm	0.0380 ppm	1.3887 ppm	0.0062 ppm	0.2855 ppm
Concentration RSD	13.3 %	0.9 %	8.4 %	0.8 %	1.5 %	31.7 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4012 ppm	109.0309 %	109.9401 %	101.0257 %	**197.3295 %**	**199.5646 %**	**197.8404 %**
Concentration per Run 1	1.4269 ppm	106.6914 %	110.0472 %	102.2070 %	**194.1043 %**	**198.3802 %**	**199.1550 %**
Concentration per Run 2	1.3894 ppm	110.5050 %	110.1146 %	100.2885 %	**198.9971 %**	**201.4634 %**	**196.9761 %**
Concentration per Run 3	1.3873 ppm	109.8963 %	109.6584 %	100.5817 %	**198.8872 %**	**198.8502 %**	**197.3903 %**
Concentration RSD	1.6 %	1.9 %	0.2 %	1.0 %	**1.4 %**	**0.8 %**	**0.6 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432647-11D2 WG1935294
Analysis started at: 6/18/2024 10:14:51 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0063 ppm	160.4914 ppm	0.1016 ppm	0.0063 ppm	1.5675 ppm	0.0136 ppm	31.1027 ppm
Concentration per Run 1	0.0060 ppm	159.7365 ppm	0.1002 ppm	0.0075 ppm	1.5597 ppm	0.0135 ppm	30.8809 ppm
Concentration per Run 2	0.0062 ppm	159.8363 ppm	0.1013 ppm	0.0060 ppm	1.5632 ppm	0.0136 ppm	31.0939 ppm
Concentration per Run 3	0.0066 ppm	161.9014 ppm	0.1032 ppm	0.0054 ppm	1.5797 ppm	0.0136 ppm	31.3333 ppm
Concentration RSD	5.4 %	0.8 %	1.5 %	17.6 %	0.7 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0844 ppm	0.1970 ppm	0.1342 ppm	207.3304 ppm	6.5208 ppm	0.0866 ppm
Concentration per Run 1	-0.0009 ppm	0.0841 ppm	0.1985 ppm	0.1347 ppm	206.1848 ppm	6.4914 ppm	0.0874 ppm
Concentration per Run 2	-0.0008 ppm	0.0841 ppm	0.1971 ppm	0.1338 ppm	206.8269 ppm	6.5037 ppm	0.0872 ppm
Concentration per Run 3	-0.0008 ppm	0.0851 ppm	0.1954 ppm	0.1341 ppm	208.9796 ppm	6.5672 ppm	0.0852 ppm
Concentration RSD	7.2 %	0.7 %	0.8 %	0.3 %	0.7 %	0.6 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.3843 ppm	13.9740 ppm	0.0057 ppm	0.1659 ppm	0.1156 ppm	0.2814 ppm	-0.0066 ppm
Concentration per Run 1	21.6126 ppm	13.9003 ppm	0.0055 ppm	0.1629 ppm	0.1165 ppm	0.2817 ppm	-0.0047 ppm
Concentration per Run 2	21.2537 ppm	13.9275 ppm	0.0059 ppm	0.1654 ppm	0.1151 ppm	0.2819 ppm	-0.0060 ppm
Concentration per Run 3	21.2868 ppm	14.0941 ppm	0.0056 ppm	0.1692 ppm	0.1152 ppm	0.2805 ppm	-0.0092 ppm
Concentration RSD	0.9 %	0.8 %	4.0 %	1.9 %	0.7 %	0.3 %	35.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0111 ppm	7.4156 ppm	0.0122 ppm	0.0722 ppm	1.3888 ppm	0.0047 ppm	0.3132 ppm
Concentration per Run 1	-0.0112 ppm	7.4913 ppm	0.0123 ppm	0.0717 ppm	1.4031 ppm	0.0049 ppm	0.3152 ppm
Concentration per Run 2	-0.0104 ppm	7.3944 ppm	0.0112 ppm	0.0720 ppm	1.3802 ppm	0.0047 ppm	0.3112 ppm
Concentration per Run 3	-0.0116 ppm	7.3612 ppm	0.0130 ppm	0.0729 ppm	1.3833 ppm	0.0044 ppm	0.3131 ppm
Concentration RSD	5.3 %	0.9 %	7.3 %	0.9 %	0.9 %	5.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7155 ppm	109.9655 %	109.7987 %	98.5347 %	**293.9180 %**	**300.1198 %**	**293.5242 %**
Concentration per Run 1	1.7283 ppm	111.3035 %	109.8602 %	98.5923 %	**298.9984 %**	**299.2549 %**	**292.5772 %**
Concentration per Run 2	1.7108 ppm	109.1510 %	109.5733 %	98.2522 %	**290.4070 %**	**299.1357 %**	**292.5871 %**
Concentration per Run 3	1.7074 ppm	109.4418 %	109.9624 %	98.7598 %	**292.3487 %**	**301.9689 %**	**295.4084 %**
Concentration RSD	0.7 %	1.1 %	0.2 %	0.3 %	**1.5 %**	**0.5 %**	**0.6 %**

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432657-01D2 WG1935294
Analysis started at: 6/18/2024 10:18:19 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0054 ppm	115.5338 ppm	0.0515 ppm	0.0112 ppm	0.9257 ppm	0.0038 ppm	32.0442 ppm
Concentration per Run 1	0.0051 ppm	114.6720 ppm	0.0518 ppm	0.0128 ppm	0.9218 ppm	0.0038 ppm	31.9714 ppm
Concentration per Run 2	0.0055 ppm	115.9748 ppm	0.0499 ppm	0.0101 ppm	0.9274 ppm	0.0039 ppm	32.1316 ppm
Concentration per Run 3	0.0056 ppm	115.9547 ppm	0.0529 ppm	0.0106 ppm	0.9278 ppm	0.0037 ppm	32.0296 ppm
Concentration RSD	5.6 %	0.6 %	3.0 %	12.6 %	0.4 %	2.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0034 ppm	0.0754 ppm	0.2617 ppm	0.2615 ppm	189.7028 ppm	28.7063 ppm	0.1390 ppm
Concentration per Run 1	-0.0034 ppm	0.0762 ppm	0.2639 ppm	0.2613 ppm	188.9104 ppm	28.5347 ppm	0.1398 ppm
Concentration per Run 2	-0.0033 ppm	0.0756 ppm	0.2620 ppm	0.2624 ppm	190.3839 ppm	28.6985 ppm	0.1383 ppm
Concentration per Run 3	-0.0035 ppm	0.0744 ppm	0.2592 ppm	0.2609 ppm	189.8142 ppm	28.8856 ppm	0.1389 ppm
Concentration RSD	2.4 %	1.2 %	0.9 %	0.3 %	0.4 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.3579 ppm	3.4312 ppm	-0.0011 ppm	0.5756 ppm	0.1596 ppm	0.5506 ppm	-0.0059 ppm
Concentration per Run 1	48.6834 ppm	3.4315 ppm	-0.0011 ppm	0.5678 ppm	0.1601 ppm	0.5506 ppm	-0.0034 ppm
Concentration per Run 2	48.5826 ppm	3.4504 ppm	-0.0020 ppm	0.5777 ppm	0.1607 ppm	0.5484 ppm	-0.0062 ppm
Concentration per Run 3	47.8078 ppm	3.4118 ppm	-0.0003 ppm	0.5813 ppm	0.1578 ppm	0.5528 ppm	-0.0080 ppm
Concentration RSD	1.0 %	0.6 %	72.9 %	1.2 %	1.0 %	0.4 %	39.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0063 ppm	4.9660 ppm	0.0213 ppm	0.0992 ppm	8.1166 ppm	0.0077 ppm	0.3015 ppm
Concentration per Run 1	-0.0043 ppm	4.9710 ppm	0.0216 ppm	0.0987 ppm	8.1703 ppm	0.0067 ppm	0.3039 ppm
Concentration per Run 2	-0.0057 ppm	4.9925 ppm	0.0207 ppm	0.0997 ppm	8.1476 ppm	0.0080 ppm	0.3016 ppm
Concentration per Run 3	-0.0089 ppm	4.9345 ppm	0.0217 ppm	0.0991 ppm	8.0318 ppm	0.0084 ppm	0.2991 ppm
Concentration RSD	37.1 %	0.6 %	2.7 %	0.5 %	0.9 %	12.0 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8369 ppm	111.6716 %	112.5722 %	102.8734 %	129.7709 %	131.4866 %	127.3021 %
Concentration per Run 1	0.8463 ppm	110.6418 %	112.9154 %	102.6183 %	129.1892 %	132.2380 %	126.6263 %
Concentration per Run 2	0.8353 ppm	112.1634 %	111.9785 %	102.9238 %	129.9346 %	130.4551 %	127.2313 %
Concentration per Run 3	0.8291 ppm	112.2097 %	112.8227 %	103.0780 %	130.1890 %	131.7667 %	128.0488 %
Concentration RSD	1.0 %	0.8 %	0.5 %	0.2 %	0.4 %	0.7 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432657-02D2 WG1935294
Analysis started at: 6/18/2024 10:21:48 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	137.4019 ppm	0.0391 ppm	0.0073 ppm	1.1391 ppm	0.0045 ppm	25.7589 ppm
Concentration per Run 1	0.0070 ppm	137.8020 ppm	0.0383 ppm	0.0051 ppm	1.1382 ppm	0.0046 ppm	25.8736 ppm
Concentration per Run 2	0.0066 ppm	137.0697 ppm	0.0413 ppm	0.0096 ppm	1.1345 ppm	0.0045 ppm	25.6256 ppm
Concentration per Run 3	0.0068 ppm	137.3340 ppm	0.0377 ppm	0.0073 ppm	1.1445 ppm	0.0045 ppm	25.7775 ppm
Concentration RSD	2.7 %	0.3 %	4.9 %	30.1 %	0.4 %	1.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0052 ppm	0.1047 ppm	0.3368 ppm	0.2882 ppm	249.1738 ppm	35.7139 ppm	0.1837 ppm
Concentration per Run 1	-0.0051 ppm	0.1034 ppm	0.3347 ppm	0.2855 ppm	249.2236 ppm	35.6671 ppm	0.1833 ppm
Concentration per Run 2	-0.0053 ppm	0.1045 ppm	0.3381 ppm	0.2889 ppm	247.2841 ppm	35.6464 ppm	0.1833 ppm
Concentration per Run 3	-0.0052 ppm	0.1061 ppm	0.3378 ppm	0.2903 ppm	251.0136 ppm	35.8283 ppm	0.1845 ppm
Concentration RSD	2.3 %	1.3 %	0.6 %	0.9 %	0.7 %	0.3 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.1832 ppm	3.2916 ppm	0.0008 ppm	0.7607 ppm	0.2174 ppm	0.3725 ppm	-0.0075 ppm
Concentration per Run 1	55.0067 ppm	3.3120 ppm	0.0009 ppm	0.7709 ppm	0.2156 ppm	0.3523 ppm	-0.0074 ppm
Concentration per Run 2	55.3713 ppm	3.2569 ppm	0.0005 ppm	0.7591 ppm	0.2183 ppm	0.3918 ppm	-0.0099 ppm
Concentration per Run 3	55.1716 ppm	3.3060 ppm	0.0009 ppm	0.7520 ppm	0.2184 ppm	0.3735 ppm	-0.0052 ppm
Concentration RSD	0.3 %	0.9 %	27.7 %	1.3 %	0.7 %	5.3 %	31.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0078 ppm	4.8626 ppm	0.0234 ppm	0.0882 ppm	10.4446 ppm	0.0112 ppm	0.4195 ppm
Concentration per Run 1	-0.0093 ppm	4.7795 ppm	0.0216 ppm	0.0882 ppm	10.3771 ppm	0.0096 ppm	0.4164 ppm
Concentration per Run 2	-0.0082 ppm	4.8865 ppm	0.0231 ppm	0.0877 ppm	10.5025 ppm	0.0125 ppm	0.4215 ppm
Concentration per Run 3	-0.0058 ppm	4.9219 ppm	0.0255 ppm	0.0887 ppm	10.4544 ppm	0.0116 ppm	0.4206 ppm
Concentration RSD	22.9 %	1.5 %	8.4 %	0.6 %	0.6 %	13.2 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0007 ppm	114.3044 %	116.3377 %	106.1660 %	137.7326 %	140.3931 %	136.7602 %
Concentration per Run 1	0.9991 ppm	114.3303 %	115.8571 %	112.3297 %	137.3631 %	140.0377 %	142.9904 %
Concentration per Run 2	1.0028 ppm	114.3629 %	117.1475 %	100.4871 %	137.6042 %	141.3905 %	130.5567 %
Concentration per Run 3	1.0001 ppm	114.2200 %	116.0083 %	105.6813 %	138.2306 %	139.7511 %	136.7336 %
Concentration RSD	0.2 %	0.1 %	0.6 %	5.6 %	0.3 %	0.6 %	4.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432657-03D2 WG1935294
Analysis started at: 6/18/2024 10:25:16 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0044 ppm	98.4175 ppm	0.1681 ppm	0.0062 ppm	0.6663 ppm	0.0036 ppm	14.1749 ppm
Concentration per Run 1	0.0046 ppm	98.4322 ppm	0.1677 ppm	0.0056 ppm	0.6662 ppm	0.0036 ppm	14.1621 ppm
Concentration per Run 2	0.0045 ppm	98.5700 ppm	0.1708 ppm	0.0056 ppm	0.6654 ppm	0.0035 ppm	14.2384 ppm
Concentration per Run 3	0.0042 ppm	98.2504 ppm	0.1659 ppm	0.0073 ppm	0.6672 ppm	0.0035 ppm	14.1241 ppm
Concentration RSD	5.2 %	0.2 %	1.5 %	16.4 %	0.1 %	1.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0600 ppm	0.1880 ppm	0.1828 ppm	143.2648 ppm	14.0399 ppm	0.1040 ppm
Concentration per Run 1	0.0004 ppm	0.0611 ppm	0.1903 ppm	0.1843 ppm	143.5563 ppm	14.0251 ppm	0.1047 ppm
Concentration per Run 2	0.0005 ppm	0.0598 ppm	0.1861 ppm	0.1821 ppm	142.8119 ppm	13.9617 ppm	0.1026 ppm
Concentration per Run 3	0.0000 ppm	0.0592 ppm	0.1875 ppm	0.1819 ppm	143.4261 ppm	14.1328 ppm	0.1048 ppm
Concentration RSD	94.2 %	1.6 %	1.1 %	0.7 %	0.3 %	0.6 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.4990 ppm	3.4058 ppm	-0.0009 ppm	0.3838 ppm	0.1163 ppm	0.5861 ppm	0.0034 ppm
Concentration per Run 1	32.7396 ppm	3.4002 ppm	-0.0012 ppm	0.3903 ppm	0.1183 ppm	0.5853 ppm	0.0018 ppm
Concentration per Run 2	32.3924 ppm	3.4152 ppm	-0.0005 ppm	0.3777 ppm	0.1149 ppm	0.5890 ppm	0.0061 ppm
Concentration per Run 3	32.3649 ppm	3.4020 ppm	-0.0011 ppm	0.3835 ppm	0.1159 ppm	0.5838 ppm	0.0023 ppm
Concentration RSD	0.6 %	0.2 %	44.0 %	1.6 %	1.5 %	0.5 %	69.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	5.6200 ppm	0.0155 ppm	0.0567 ppm	5.8618 ppm	0.0054 ppm	0.2383 ppm
Concentration per Run 1	-0.0018 ppm	5.6963 ppm	0.0167 ppm	0.0569 ppm	5.9223 ppm	0.0061 ppm	0.2409 ppm
Concentration per Run 2	-0.0023 ppm	5.6083 ppm	0.0153 ppm	0.0563 ppm	5.8174 ppm	0.0041 ppm	0.2377 ppm
Concentration per Run 3	-0.0067 ppm	5.5556 ppm	0.0146 ppm	0.0569 ppm	5.8459 ppm	0.0060 ppm	0.2365 ppm
Concentration RSD	75.0 %	1.3 %	7.0 %	0.6 %	0.9 %	20.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6335 ppm	111.0516 %	112.8505 %	104.4767 %	128.0463 %	129.4157 %	127.1280 %
Concentration per Run 1	0.6424 ppm	111.1839 %	112.6450 %	104.8079 %	128.3314 %	129.3925 %	127.7528 %
Concentration per Run 2	0.6259 ppm	111.0518 %	112.8860 %	103.7756 %	128.1115 %	129.5563 %	126.3276 %
Concentration per Run 3	0.6322 ppm	110.9192 %	113.0206 %	104.8466 %	127.6961 %	129.2984 %	127.3035 %
Concentration RSD	1.3 %	0.1 %	0.2 %	0.6 %	0.3 %	0.1 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432804-03D2 WG1935294
Analysis started at: 6/18/2024 10:28:45 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0084 ppm	29.2523 ppm	0.6952 ppm	0.0186 ppm	1.0182 ppm	0.0035 ppm	70.2656 ppm
Concentration per Run 1	0.0083 ppm	29.2228 ppm	0.7001 ppm	0.0193 ppm	1.0162 ppm	0.0035 ppm	70.1076 ppm
Concentration per Run 2	0.0084 ppm	29.2304 ppm	0.6991 ppm	0.0191 ppm	1.0183 ppm	0.0035 ppm	70.1800 ppm
Concentration per Run 3	0.0084 ppm	29.3037 ppm	0.6864 ppm	0.0176 ppm	1.0201 ppm	0.0035 ppm	70.5092 ppm
Concentration RSD	1.0 %	0.2 %	1.1 %	5.0 %	0.2 %	0.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0013 ppm	0.0416 ppm	0.0891 ppm	0.6365 ppm	242.2714 ppm	4.2367 ppm	0.0485 ppm
Concentration per Run 1	-0.0015 ppm	0.0411 ppm	0.0885 ppm	0.6286 ppm	242.0762 ppm	4.2233 ppm	0.0498 ppm
Concentration per Run 2	-0.0012 ppm	0.0419 ppm	0.0885 ppm	0.6387 ppm	242.3480 ppm	4.2340 ppm	0.0475 ppm
Concentration per Run 3	-0.0011 ppm	0.0417 ppm	0.0904 ppm	0.6423 ppm	242.3901 ppm	4.2530 ppm	0.0483 ppm
Concentration RSD	17.7 %	1.0 %	1.2 %	1.1 %	0.1 %	0.4 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.1565 ppm	1.3748 ppm	0.0159 ppm	1.8240 ppm	0.1633 ppm	1.9724 ppm	0.0098 ppm
Concentration per Run 1	7.0995 ppm	1.3755 ppm	0.0152 ppm	1.8279 ppm	0.1622 ppm	1.9845 ppm	0.0112 ppm
Concentration per Run 2	7.1794 ppm	1.3704 ppm	0.0159 ppm	1.8198 ppm	0.1623 ppm	1.9905 ppm	0.0105 ppm
Concentration per Run 3	7.1904 ppm	1.3785 ppm	0.0165 ppm	1.8244 ppm	0.1654 ppm	1.9423 ppm	0.0078 ppm
Concentration RSD	0.7 %	0.3 %	4.2 %	0.2 %	1.1 %	1.3 %	18.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	4.3635 ppm	0.0580 ppm	0.6389 ppm	2.3236 ppm	0.0045 ppm	0.3743 ppm
Concentration per Run 1	0.0023 ppm	4.2796 ppm	0.0568 ppm	0.6377 ppm	2.2968 ppm	0.0058 ppm	0.3708 ppm
Concentration per Run 2	0.0070 ppm	4.3728 ppm	0.0577 ppm	0.6390 ppm	2.3229 ppm	0.0033 ppm	0.3756 ppm
Concentration per Run 3	0.0001 ppm	4.4381 ppm	0.0595 ppm	0.6400 ppm	2.3511 ppm	0.0045 ppm	0.3766 ppm
Concentration RSD	111.9 %	1.8 %	2.4 %	0.2 %	1.2 %	26.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8968 ppm	109.1985 %	108.1225 %	99.9356 %	115.4505 %	114.6096 %	114.0834 %
Concentration per Run 1	0.8884 ppm	109.2067 %	109.0720 %	99.7292 %	115.1799 %	115.4722 %	114.1793 %
Concentration per Run 2	0.8966 ppm	109.7924 %	107.8567 %	100.3124 %	116.1829 %	114.4733 %	114.7133 %
Concentration per Run 3	0.9053 ppm	108.5964 %	107.4387 %	99.7652 %	114.9888 %	113.8832 %	113.3576 %
Concentration RSD	0.9 %	0.5 %	0.8 %	0.3 %	0.6 %	0.7 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432804-07D2 WG1935294
Analysis started at: 6/18/2024 10:32:13 AM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0113 ppm	50.4021 ppm	0.1100 ppm	0.0379 ppm	2.9474 ppm	0.0034 ppm	49.5381 ppm
Concentration per Run 1	0.0117 ppm	50.2674 ppm	0.1123 ppm	0.0401 ppm	2.9298 ppm	0.0034 ppm	49.5393 ppm
Concentration per Run 2	0.0114 ppm	50.5990 ppm	0.1092 ppm	0.0389 ppm	2.9661 ppm	0.0034 ppm	49.6036 ppm
Concentration per Run 3	0.0108 ppm	50.3399 ppm	0.1084 ppm	0.0348 ppm	2.9465 ppm	0.0034 ppm	49.4715 ppm
Concentration RSD	4.0 %	0.3 %	1.9 %	7.4 %	0.6 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0110 ppm	0.0549 ppm	0.2834 ppm	1.4009 ppm	262.2555 ppm	6.5827 ppm	0.0609 ppm
Concentration per Run 1	0.0114 ppm	0.0552 ppm	0.2872 ppm	1.4159 ppm	261.3026 ppm	6.5441 ppm	0.0616 ppm
Concentration per Run 2	0.0111 ppm	0.0550 ppm	0.2847 ppm	1.4111 ppm	262.8460 ppm	6.6203 ppm	0.0619 ppm
Concentration per Run 3	0.0106 ppm	0.0545 ppm	0.2784 ppm	1.3756 ppm	262.6180 ppm	6.5837 ppm	0.0594 ppm
Concentration RSD	3.5 %	0.7 %	1.6 %	1.6 %	0.3 %	0.6 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2364 ppm	1.9197 ppm	0.0187 ppm	1.8601 ppm	0.2394 ppm	19.4308 ppm	0.1293 ppm
Concentration per Run 1	20.5390 ppm	1.9165 ppm	0.0185 ppm	1.8535 ppm	0.2415 ppm	19.5134 ppm	0.1283 ppm
Concentration per Run 2	20.2395 ppm	1.9246 ppm	0.0193 ppm	1.8582 ppm	0.2396 ppm	19.5036 ppm	0.1282 ppm
Concentration per Run 3	19.9309 ppm	1.9180 ppm	0.0182 ppm	1.8687 ppm	0.2370 ppm	19.2755 ppm	0.1313 ppm
Concentration RSD	1.5 %	0.2 %	2.9 %	0.4 %	1.0 %	0.7 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	4.8124 ppm	0.2075 ppm	0.3937 ppm	2.7663 ppm	0.0058 ppm	0.5096 ppm
Concentration per Run 1	-0.0005 ppm	4.8929 ppm	0.2096 ppm	0.3922 ppm	2.8102 ppm	0.0045 ppm	0.5157 ppm
Concentration per Run 2	0.0056 ppm	4.8504 ppm	0.2091 ppm	0.3956 ppm	2.7643 ppm	0.0048 ppm	0.5105 ppm
Concentration per Run 3	0.0033 ppm	4.6940 ppm	0.2037 ppm	0.3932 ppm	2.7243 ppm	0.0081 ppm	0.5027 ppm
Concentration RSD	109.4 %	2.2 %	1.6 %	0.4 %	1.6 %	33.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.8353 ppm	110.0809 %	111.7903 %	100.8438 %	122.5015 %	124.3747 %	120.7485 %
Concentration per Run 1	6.9270 ppm	108.4300 %	112.1057 %	101.2771 %	121.2696 %	125.0510 %	121.1355 %
Concentration per Run 2	6.8356 ppm	110.2394 %	112.6139 %	100.0938 %	122.7824 %	125.3591 %	120.1946 %
Concentration per Run 3	6.7434 ppm	111.5732 %	110.6513 %	101.1604 %	123.4525 %	122.7139 %	120.9154 %
Concentration RSD	1.3 %	1.4 %	0.9 %	0.6 %	0.9 %	1.2 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432614-01D4 WG1935294
Analysis started at: 6/18/2024 10:35:42 AM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0026 ppm	46.6655 ppm	0.0192 ppm	0.0442 ppm	0.4697 ppm	0.0027 ppm	322.2511 ppm
Concentration per Run 1	0.0023 ppm	47.1649 ppm	0.0196 ppm	0.0434 ppm	0.4767 ppm	0.0027 ppm	325.5556 ppm
Concentration per Run 2	0.0029 ppm	46.2841 ppm	0.0211 ppm	0.0439 ppm	0.4645 ppm	0.0028 ppm	320.5971 ppm
Concentration per Run 3	0.0024 ppm	46.5475 ppm	0.0171 ppm	0.0455 ppm	0.4679 ppm	0.0026 ppm	320.6006 ppm
Concentration RSD	11.8 %	1.0 %	10.5 %	2.4 %	1.3 %	2.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0012 ppm	0.0264 ppm	0.0899 ppm	0.2121 ppm	71.1239 ppm	2.6688 ppm	0.0369 ppm
Concentration per Run 1	-0.0013 ppm	0.0260 ppm	0.0905 ppm	0.2120 ppm	71.5116 ppm	2.7215 ppm	0.0381 ppm
Concentration per Run 2	-0.0012 ppm	0.0264 ppm	0.0900 ppm	0.2138 ppm	70.5504 ppm	2.6300 ppm	0.0371 ppm
Concentration per Run 3	-0.0011 ppm	0.0268 ppm	0.0892 ppm	0.2105 ppm	71.3098 ppm	2.6548 ppm	0.0357 ppm
Concentration RSD	8.5 %	1.5 %	0.7 %	0.8 %	0.7 %	1.8 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.9523 ppm	1.5014 ppm	0.0010 ppm	10.8694 ppm	0.0676 ppm	0.3012 ppm	0.0026 ppm
Concentration per Run 1	31.8332 ppm	1.5193 ppm	0.0005 ppm	11.0290 ppm	0.0669 ppm	0.3027 ppm	0.0068 ppm
Concentration per Run 2	32.2591 ppm	1.4880 ppm	0.0012 ppm	10.7190 ppm	0.0683 ppm	0.3012 ppm	-0.0016 ppm
Concentration per Run 3	31.7646 ppm	1.4969 ppm	0.0013 ppm	10.8602 ppm	0.0675 ppm	0.2997 ppm	0.0026 ppm
Concentration RSD	0.8 %	1.1 %	44.9 %	1.4 %	1.0 %	0.5 %	162.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0102 ppm	3.4417 ppm	0.0128 ppm	1.1177 ppm	2.2061 ppm	0.0038 ppm	0.1089 ppm
Concentration per Run 1	-0.0147 ppm	3.4512 ppm	0.0129 ppm	1.1315 ppm	2.2020 ppm	0.0050 ppm	0.1085 ppm
Concentration per Run 2	-0.0098 ppm	3.4584 ppm	0.0131 ppm	1.1063 ppm	2.2344 ppm	0.0017 ppm	0.1096 ppm
Concentration per Run 3	-0.0061 ppm	3.4154 ppm	0.0124 ppm	1.1153 ppm	2.1821 ppm	0.0046 ppm	0.1086 ppm
Concentration RSD	42.3 %	0.7 %	2.7 %	1.1 %	1.2 %	47.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4995 ppm	104.3709 %	106.4789 %	95.0348 %	112.6006 %	115.3500 %	112.5745 %
Concentration per Run 1	0.4985 ppm	104.5205 %	105.9946 %	94.9072 %	113.0399 %	114.7269 %	112.6446 %
Concentration per Run 2	0.5032 ppm	103.5530 %	107.6905 %	94.9603 %	111.5780 %	116.8783 %	112.4381 %
Concentration per Run 3	0.4968 ppm	105.0390 %	105.7515 %	95.2368 %	113.1839 %	114.4448 %	112.6408 %
Concentration RSD	0.7 %	0.7 %	1.0 %	0.2 %	0.8 %	1.2 %	0.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:39:11 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4681 ppm	0.4946 ppm	0.4588 ppm	0.4619 ppm	0.4737 ppm	0.4894 ppm	0.4617 ppm
Concentration per Run 1	0.4668 ppm	0.4977 ppm	0.4574 ppm	0.4591 ppm	0.4725 ppm	0.4892 ppm	0.4611 ppm
Concentration per Run 2	0.4687 ppm	0.4995 ppm	0.4604 ppm	0.4621 ppm	0.4755 ppm	0.4914 ppm	0.4672 ppm
Concentration per Run 3	0.4687 ppm	0.4867 ppm	0.4585 ppm	0.4644 ppm	0.4733 ppm	0.4877 ppm	0.4569 ppm
Recovery Percentage 1	93.616 %	98.928 %	91.758 %	92.378 %	94.748 %	97.881 %	92.348 %
Concentration RSD	0.2 %	1.4 %	0.3 %	0.6 %	0.3 %	0.4 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4707 ppm	0.4765 ppm	0.4575 ppm	0.4610 ppm	0.4871 ppm	4.8910 ppm	0.4723 ppm
Concentration per Run 1	0.4645 ppm	0.4715 ppm	0.4553 ppm	0.4594 ppm	0.4871 ppm	4.9068 ppm	0.4734 ppm
Concentration per Run 2	0.4724 ppm	0.4772 ppm	0.4586 ppm	0.4606 ppm	0.4858 ppm	4.8899 ppm	0.4720 ppm
Concentration per Run 3	0.4752 ppm	0.4808 ppm	0.4585 ppm	0.4630 ppm	0.4884 ppm	4.8763 ppm	0.4716 ppm
Recovery Percentage 1	94.145 %	95.296 %	91.496 %	92.201 %	97.421 %	97.820 %	94.467 %
Concentration RSD	1.2 %	1.0 %	0.4 %	0.4 %	0.3 %	0.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4546 ppm	0.4635 ppm	0.4741 ppm	9.3597 ppm	0.4712 ppm	0.4741 ppm	0.4722 ppm
Concentration per Run 1	0.4526 ppm	0.4654 ppm	0.4681 ppm	9.3344 ppm	0.4681 ppm	0.4746 ppm	0.4661 ppm
Concentration per Run 2	0.4558 ppm	0.4658 ppm	0.4737 ppm	9.4749 ppm	0.4737 ppm	0.4753 ppm	0.4763 ppm
Concentration per Run 3	0.4554 ppm	0.4593 ppm	0.4804 ppm	9.2699 ppm	0.4719 ppm	0.4725 ppm	0.4743 ppm
Recovery Percentage 1	90.922 %	92.697 %	94.815 %	93.597 %	94.239 %	94.823 %	94.444 %
Concentration RSD	0.4 %	0.8 %	1.3 %	1.1 %	0.6 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4623 ppm	5.2801 ppm	0.4862 ppm	0.4828 ppm	0.4643 ppm	0.4787 ppm	0.4564 ppm
Concentration per Run 1	0.4617 ppm	5.2354 ppm	0.4826 ppm	0.4809 ppm	0.4617 ppm	0.4744 ppm	0.4537 ppm
Concentration per Run 2	0.4644 ppm	5.2996 ppm	0.4878 ppm	0.4844 ppm	0.4655 ppm	0.4810 ppm	0.4562 ppm
Concentration per Run 3	0.4607 ppm	5.3052 ppm	0.4882 ppm	0.4830 ppm	0.4657 ppm	0.4807 ppm	0.4594 ppm
Recovery Percentage 1	92.453 %	100.572 %	97.238 %	96.556 %	92.862 %	95.744 %	91.290 %
Concentration RSD	0.4 %	0.7 %	0.6 %	0.4 %	0.5 %	0.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4677 ppm	110.4877 %	106.8845 %	105.7389 %	110.8460 %	106.3935 %	107.0710 %
Concentration per Run 1	0.4654 ppm	112.0997 %	106.8054 %	106.1068 %	112.6484 %	105.9711 %	107.5149 %
Concentration per Run 2	0.4687 ppm	110.9510 %	106.4192 %	106.2771 %	111.3343 %	106.3703 %	107.6299 %
Concentration per Run 3	0.4688 ppm	108.4123 %	107.4288 %	104.8329 %	108.5554 %	106.8390 %	106.0683 %
Recovery Percentage 1	93.530 %						
Concentration RSD	0.4 %	1.7 %	0.5 %	0.7 %	1.9 %	0.4 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:42:40 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.0172 ppm	-0.0002 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0056 ppm
Concentration per Run 1	0.0008 ppm	0.0220 ppm	-0.0017 ppm	0.0022 ppm	0.0002 ppm	0.0001 ppm	0.0064 ppm
Concentration per Run 2	0.0010 ppm	0.0207 ppm	0.0004 ppm	-0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 3	0.0012 ppm	0.0090 ppm	0.0008 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0041 ppm
Recovery Percentage 1	14.402 %	17.233 %	-3.356 %	2.212 %	0.834 %	3.552 %	5.607 %
Concentration RSD	21.8 %	41.5 %	796.4 %	253.7 %	132.3 %	8.8 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0040 ppm	0.0049 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0041 ppm	0.0075 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0043 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0004 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0037 ppm	0.0070 ppm	-0.0002 ppm
Recovery Percentage 1	5.713 %	-2.553 %	0.129 %	2.801 %	8.053 %	0.196 %	-1.950 %
Concentration RSD	23.0 %	37.4 %	2,267.6 %	37.7 %	6.7 %	83.4 %	317.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0002 ppm	-0.0007 ppm	-0.0164 ppm	-0.0005 ppm	-0.0003 ppm	0.0028 ppm
Concentration per Run 1	-0.0015 ppm	0.0002 ppm	-0.0003 ppm	-0.0172 ppm	-0.0009 ppm	-0.0005 ppm	0.0043 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	-0.0009 ppm	-0.0158 ppm	-0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0037 ppm	0.0003 ppm	-0.0009 ppm	-0.0163 ppm	0.0000 ppm	-0.0007 ppm	0.0035 ppm
Recovery Percentage 1	-1.894 %	2.123 %	-1.385 %	-0.822 %	-1.899 %	-3.028 %	5.676 %
Concentration RSD	88.4 %	54.5 %	45.1 %	4.0 %	96.3 %	154.3 %	66.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0114 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0118 ppm	0.0004 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0125 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 3	-0.0048 ppm	0.0098 ppm	-0.0005 ppm	0.0003 ppm	-0.0004 ppm	0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	-11.021 %	2.271 %	0.006 %	1.665 %	-2.869 %	3.616 %	-0.517 %
Concentration RSD	303.8 %	12.0 %	13,549.9 %	52.4 %	54.7 %	71.3 %	191.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	109.4231 %	106.5112 %	108.1999 %	111.2430 %	107.4436 %	109.5237 %
Concentration per Run 1	-0.0002 ppm	109.8534 %	105.7723 %	109.5737 %	111.7610 %	106.0275 %	110.5280 %
Concentration per Run 2	-0.0002 ppm	109.0513 %	106.9527 %	107.8742 %	110.6013 %	108.5830 %	109.3183 %
Concentration per Run 3	-0.0001 ppm	109.3647 %	106.8087 %	107.1519 %	111.3667 %	107.7204 %	108.7247 %
Recovery Percentage 1	-3.031 %						
Concentration RSD	16.1 %	0.4 %	0.6 %	1.1 %	0.5 %	1.2 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-1 WG1935403
Analysis started at: 6/18/2024 10:54:58 AM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	0.0276 ppm	0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0151 ppm
Concentration per Run 1	0.0010 ppm	0.0274 ppm	0.0009 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0156 ppm
Concentration per Run 2	0.0005 ppm	0.0330 ppm	-0.0001 ppm	0.0017 ppm	0.0001 ppm	0.0001 ppm	0.0174 ppm
Concentration per Run 3	0.0007 ppm	0.0223 ppm	-0.0002 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	0.0124 ppm
Recovery Percentage 1	10.732 %	27.560 %	3.352 %	4.664 %	1.557 %	1.474 %	15.114 %
Concentration RSD	37.2 %	19.4 %	375.7 %	31.1 %	99.9 %	36.8 %	16.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	-0.0001 ppm	0.0220 ppm	0.0158 ppm	-0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0007 ppm	-0.0004 ppm	0.0001 ppm	0.0227 ppm	0.0412 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0231 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	-0.0002 ppm	0.0203 ppm	0.0087 ppm	-0.0010 ppm
Recovery Percentage 1	2.879 %	-1.831 %	-1.882 %	-0.745 %	44.065 %	0.631 %	-7.751 %
Concentration RSD	55.0 %	92.7 %	103.1 %	246.4 %	7.0 %	144.6 %	141.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	0.0007 ppm	-0.0016 ppm	-0.0036 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0036 ppm	0.0006 ppm	-0.0014 ppm	-0.0018 ppm	0.0001 ppm	-0.0009 ppm	0.0007 ppm
Concentration per Run 2	0.0020 ppm	0.0008 ppm	-0.0017 ppm	-0.0036 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.0021 ppm	0.0006 ppm	-0.0016 ppm	-0.0055 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	2.552 %	6.674 %	-3.163 %	-0.181 %	0.227 %	-3.481 %	0.067 %
Concentration RSD	36.6 %	16.7 %	7.9 %	50.7 %	120.4 %	143.9 %	1,978.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	0.0130 ppm	-0.0017 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 1	-0.0043 ppm	0.0130 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0018 ppm	-0.0005 ppm
Concentration per Run 2	-0.0045 ppm	0.0126 ppm	-0.0012 ppm	0.0001 ppm	-0.0005 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 3	-0.0007 ppm	0.0134 ppm	-0.0019 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	-31.523 %	2.599 %	-3.406 %	1.034 %	-1.241 %	5.329 %	-2.369 %
Concentration RSD	68.0 %	3.1 %	26.3 %	38.8 %	254.6 %	158.1 %	122.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	108.5919 %	105.4519 %	106.0693 %	108.9716 %	105.9698 %	105.7270 %
Concentration per Run 1	0.0005 ppm	109.5708 %	106.6325 %	106.5173 %	110.0081 %	107.2346 %	106.2365 %
Concentration per Run 2	0.0008 ppm	108.3818 %	104.4269 %	105.6989 %	108.7958 %	105.1507 %	105.4319 %
Concentration per Run 3	0.0009 ppm	107.8232 %	105.2964 %	105.9916 %	108.1108 %	105.5241 %	105.5125 %
Recovery Percentage 1	14.861 %						
Concentration RSD	28.7 %	0.8 %	1.1 %	0.4 %	0.9 %	1.0 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-2D2 WG1935403
Analysis started at: 6/18/2024 10:58:45 AM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3130 ppm	16.3730 ppm	1.1647 ppm	0.8848 ppm	1.1032 ppm	0.6397 ppm	18.2655 ppm
Concentration per Run 1	0.3119 ppm	16.3809 ppm	1.1641 ppm	0.8824 ppm	1.1036 ppm	0.6429 ppm	18.2740 ppm
Concentration per Run 2	0.3154 ppm	16.3433 ppm	1.1690 ppm	0.8924 ppm	1.1016 ppm	0.6386 ppm	18.2311 ppm
Concentration per Run 3	0.3117 ppm	16.3949 ppm	1.1610 ppm	0.8796 ppm	1.1043 ppm	0.6378 ppm	18.2913 ppm
Concentration RSD	0.7 %	0.2 %	0.3 %	0.8 %	0.1 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8072 ppm	0.3084 ppm	0.6608 ppm	0.7765 ppm	21.0328 ppm	3.9181 ppm	0.4812 ppm
Concentration per Run 1	0.7968 ppm	0.3054 ppm	0.6587 ppm	0.7728 ppm	21.0441 ppm	3.9374 ppm	0.4802 ppm
Concentration per Run 2	0.8150 ppm	0.3118 ppm	0.6651 ppm	0.7836 ppm	21.0309 ppm	3.9029 ppm	0.4808 ppm
Concentration per Run 3	0.8099 ppm	0.3079 ppm	0.6585 ppm	0.7731 ppm	21.0234 ppm	3.9139 ppm	0.4826 ppm
Concentration RSD	1.2 %	1.0 %	0.6 %	0.8 %	0.0 %	0.4 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2767 ppm	1.9519 ppm	0.4804 ppm	6.5349 ppm	1.1815 ppm	0.3480 ppm	0.7319 ppm
Concentration per Run 1	5.2430 ppm	1.9583 ppm	0.4659 ppm	6.4909 ppm	1.1825 ppm	0.3480 ppm	0.7272 ppm
Concentration per Run 2	5.3328 ppm	1.9464 ppm	0.4849 ppm	6.5479 ppm	1.1873 ppm	0.3488 ppm	0.7368 ppm
Concentration per Run 3	5.2544 ppm	1.9510 ppm	0.4904 ppm	6.5659 ppm	1.1746 ppm	0.3473 ppm	0.7316 ppm
Concentration RSD	0.9 %	0.3 %	2.7 %	0.6 %	0.5 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6357 ppm	3.9314 ppm	0.2843 ppm	0.4970 ppm	1.0099 ppm	0.7942 ppm	0.3717 ppm
Concentration per Run 1	0.6377 ppm	3.8560 ppm	0.2826 ppm	0.4973 ppm	1.0053 ppm	0.7936 ppm	0.3703 ppm
Concentration per Run 2	0.6390 ppm	3.9803 ppm	0.2872 ppm	0.4966 ppm	1.0142 ppm	0.7967 ppm	0.3750 ppm
Concentration per Run 3	0.6305 ppm	3.9579 ppm	0.2832 ppm	0.4973 ppm	1.0103 ppm	0.7922 ppm	0.3698 ppm
Concentration RSD	0.7 %	1.7 %	0.9 %	0.1 %	0.4 %	0.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6129 ppm	109.0766 %	107.6184 %	104.0031 %	114.3957 %	112.7847 %	111.4174 %
Concentration per Run 1	0.6117 ppm	110.2576 %	107.6422 %	104.8841 %	116.0044 %	112.8466 %	112.8254 %
Concentration per Run 2	0.6174 ppm	108.1052 %	107.6084 %	102.8180 %	112.9313 %	112.7155 %	110.1110 %
Concentration per Run 3	0.6096 ppm	108.8671 %	107.6047 %	104.3071 %	114.2513 %	112.7921 %	111.3159 %
Concentration RSD	0.7 %	1.0 %	0.0 %	1.0 %	1.3 %	0.1 %	1.2 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-3D2 WG1935403
Analysis started at: 6/18/2024 11:02:14 AM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3082 ppm	16.6867 ppm	1.1533 ppm	0.8783 ppm	1.0272 ppm	0.6305 ppm	18.1892 ppm
Concentration per Run 1	0.3098 ppm	16.5110 ppm	1.1589 ppm	0.8922 ppm	1.0211 ppm	0.6244 ppm	17.9115 ppm
Concentration per Run 2	0.3083 ppm	16.7785 ppm	1.1453 ppm	0.8782 ppm	1.0317 ppm	0.6352 ppm	18.3005 ppm
Concentration per Run 3	0.3066 ppm	16.7706 ppm	1.1557 ppm	0.8645 ppm	1.0287 ppm	0.6320 ppm	18.3557 ppm
Concentration RSD	0.5 %	0.9 %	0.6 %	1.6 %	0.5 %	0.9 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7941 ppm	0.3047 ppm	0.6667 ppm	0.7736 ppm	21.0940 ppm	3.9883 ppm	0.4779 ppm
Concentration per Run 1	0.8136 ppm	0.3099 ppm	0.6711 ppm	0.7812 ppm	21.0161 ppm	3.9589 ppm	0.4776 ppm
Concentration per Run 2	0.7847 ppm	0.3022 ppm	0.6663 ppm	0.7736 ppm	21.0439 ppm	4.0077 ppm	0.4806 ppm
Concentration per Run 3	0.7841 ppm	0.3021 ppm	0.6627 ppm	0.7659 ppm	21.2219 ppm	3.9983 ppm	0.4755 ppm
Concentration RSD	2.1 %	1.5 %	0.6 %	1.0 %	0.5 %	0.6 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2849 ppm	1.9568 ppm	0.4795 ppm	6.6417 ppm	1.1689 ppm	0.3415 ppm	0.7241 ppm
Concentration per Run 1	5.3215 ppm	1.9386 ppm	0.4774 ppm	6.5865 ppm	1.1798 ppm	0.3409 ppm	0.7352 ppm
Concentration per Run 2	5.2703 ppm	1.9674 ppm	0.4782 ppm	6.6762 ppm	1.1673 ppm	0.3376 ppm	0.7235 ppm
Concentration per Run 3	5.2627 ppm	1.9643 ppm	0.4828 ppm	6.6624 ppm	1.1596 ppm	0.3458 ppm	0.7136 ppm
Concentration RSD	0.6 %	0.8 %	0.6 %	0.7 %	0.9 %	1.2 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6254 ppm	5.4448 ppm	0.2746 ppm	0.4701 ppm	1.0259 ppm	0.7752 ppm	0.3704 ppm
Concentration per Run 1	0.6270 ppm	5.4811 ppm	0.2802 ppm	0.4674 ppm	1.0312 ppm	0.7740 ppm	0.3736 ppm
Concentration per Run 2	0.6195 ppm	5.4411 ppm	0.2733 ppm	0.4736 ppm	1.0292 ppm	0.7666 ppm	0.3704 ppm
Concentration per Run 3	0.6297 ppm	5.4120 ppm	0.2702 ppm	0.4693 ppm	1.0172 ppm	0.7851 ppm	0.3672 ppm
Concentration RSD	0.8 %	0.6 %	1.9 %	0.7 %	0.7 %	1.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6080 ppm	109.2071 %	107.9527 %	104.3766 %	114.2303 %	113.4022 %	112.4164 %
Concentration per Run 1	0.6155 ppm	107.1428 %	107.8672 %	105.5011 %	111.8518 %	113.1731 %	113.9680 %
Concentration per Run 2	0.6048 ppm	110.1319 %	108.5341 %	103.9322 %	115.4426 %	113.6831 %	111.6799 %
Concentration per Run 3	0.6038 ppm	110.3464 %	107.4568 %	103.6966 %	115.3964 %	113.3504 %	111.6013 %
Concentration RSD	1.1 %	1.6 %	0.5 %	0.9 %	1.8 %	0.2 %	1.2 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: eL2430864-03D2 WG1935403
Analysis started at: 6/18/2024 11:05:45 AM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1291 ppm	83.4193 ppm	0.0425 ppm	0.0126 ppm	1.1061 ppm	0.0047 ppm	13.3765 ppm
Concentration per Run 1	0.1287 ppm	83.5493 ppm	0.0433 ppm	0.0131 ppm	1.1037 ppm	0.0047 ppm	13.4323 ppm
Concentration per Run 2	0.1287 ppm	82.7959 ppm	0.0418 ppm	0.0135 ppm	1.1011 ppm	0.0048 ppm	13.2446 ppm
Concentration per Run 3	0.1299 ppm	83.9126 ppm	0.0425 ppm	0.0111 ppm	1.1134 ppm	0.0047 ppm	13.4526 ppm
Concentration RSD	0.5 %	0.7 %	1.7 %	10.0 %	0.6 %	0.8 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0779 ppm	0.0543 ppm	9.2839 ppm	20.4479 ppm	139.4530 ppm	19.2922 ppm	0.1289 ppm
Concentration per Run 1	0.0788 ppm	0.0543 ppm	9.2993 ppm	20.4114 ppm	138.7213 ppm	19.2139 ppm	0.1313 ppm
Concentration per Run 2	0.0777 ppm	0.0545 ppm	9.2864 ppm	20.4199 ppm	138.7264 ppm	19.1447 ppm	0.1273 ppm
Concentration per Run 3	0.0773 ppm	0.0539 ppm	9.2662 ppm	20.5125 ppm	140.9112 ppm	19.5180 ppm	0.1282 ppm
Concentration RSD	1.0 %	0.6 %	0.2 %	0.3 %	0.9 %	1.0 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.3233 ppm	2.1016 ppm	0.0137 ppm	0.9805 ppm	0.9491 ppm	1.9107 ppm	0.0077 ppm
Concentration per Run 1	29.3752 ppm	2.1080 ppm	0.0135 ppm	0.9771 ppm	0.9505 ppm	1.9062 ppm	0.0098 ppm
Concentration per Run 2	29.2091 ppm	2.0850 ppm	0.0137 ppm	0.9794 ppm	0.9474 ppm	1.9206 ppm	0.0076 ppm
Concentration per Run 3	29.3856 ppm	2.1117 ppm	0.0140 ppm	0.9850 ppm	0.9494 ppm	1.9054 ppm	0.0057 ppm
Concentration RSD	0.3 %	0.7 %	1.7 %	0.4 %	0.2 %	0.4 %	26.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	2.9562 ppm	0.5782 ppm	0.0999 ppm	5.4613 ppm	0.0063 ppm	0.3091 ppm
Concentration per Run 1	-0.0016 ppm	2.9607 ppm	0.5788 ppm	0.0998 ppm	5.4580 ppm	0.0059 ppm	0.3093 ppm
Concentration per Run 2	0.0012 ppm	2.9461 ppm	0.5741 ppm	0.0994 ppm	5.4621 ppm	0.0073 ppm	0.3084 ppm
Concentration per Run 3	0.0003 ppm	2.9617 ppm	0.5817 ppm	0.1007 ppm	5.4639 ppm	0.0056 ppm	0.3097 ppm
Concentration RSD	6,034.3 %	0.3 %	0.7 %	0.7 %	0.1 %	13.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	10.1105 ppm	110.6157 %	113.1015 %	105.7520 %	126.1205 %	129.5009 %	123.1118 %
Concentration per Run 1	10.1731 ppm	109.6461 %	112.6009 %	106.5329 %	124.9005 %	128.9154 %	124.6233 %
Concentration per Run 2	10.0635 ppm	110.9626 %	114.5307 %	104.5167 %	126.8183 %	131.2158 %	121.4454 %
Concentration per Run 3	10.0950 ppm	111.2386 %	112.1728 %	106.2064 %	126.6428 %	128.3715 %	123.2668 %
Concentration RSD	0.6 %	0.8 %	1.1 %	1.0 %	0.8 %	1.2 %	1.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2430864-05D2 WG1935403
Analysis started at: 6/18/2024 11:09:14 AM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0282 ppm	41.7298 ppm	0.0155 ppm	0.0044 ppm	0.4434 ppm	0.0022 ppm	6.3943 ppm
Concentration per Run 1	0.0282 ppm	41.4476 ppm	0.0146 ppm	0.0044 ppm	0.4408 ppm	0.0022 ppm	6.3447 ppm
Concentration per Run 2	0.0278 ppm	41.3602 ppm	0.0154 ppm	0.0046 ppm	0.4393 ppm	0.0022 ppm	6.3825 ppm
Concentration per Run 3	0.0285 ppm	42.3816 ppm	0.0166 ppm	0.0041 ppm	0.4501 ppm	0.0022 ppm	6.4557 ppm
Concentration RSD	1.2 %	1.4 %	6.6 %	4.8 %	1.3 %	0.6 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0223 ppm	0.0263 ppm	2.9226 ppm	5.8276 ppm	75.5930 ppm	9.6613 ppm	0.0757 ppm
Concentration per Run 1	0.0228 ppm	0.0266 ppm	2.9397 ppm	5.9076 ppm	74.9143 ppm	9.5772 ppm	0.0752 ppm
Concentration per Run 2	0.0219 ppm	0.0258 ppm	2.9195 ppm	5.7682 ppm	75.0313 ppm	9.6187 ppm	0.0753 ppm
Concentration per Run 3	0.0224 ppm	0.0265 ppm	2.9088 ppm	5.8071 ppm	76.8335 ppm	9.7879 ppm	0.0768 ppm
Concentration RSD	2.1 %	1.8 %	0.5 %	1.2 %	1.4 %	1.2 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.7300 ppm	0.9557 ppm	0.0031 ppm	0.6551 ppm	0.2742 ppm	0.6218 ppm	0.0031 ppm
Concentration per Run 1	15.8999 ppm	0.9463 ppm	0.0033 ppm	0.6506 ppm	0.2759 ppm	0.6168 ppm	0.0075 ppm
Concentration per Run 2	15.6294 ppm	0.9553 ppm	0.0031 ppm	0.6493 ppm	0.2734 ppm	0.6215 ppm	0.0021 ppm
Concentration per Run 3	15.6607 ppm	0.9657 ppm	0.0030 ppm	0.6654 ppm	0.2733 ppm	0.6272 ppm	-0.0002 ppm
Concentration RSD	0.9 %	1.0 %	4.8 %	1.4 %	0.5 %	0.8 %	126.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	1.9762 ppm	0.1284 ppm	0.0378 ppm	2.9890 ppm	0.0026 ppm	0.1341 ppm
Concentration per Run 1	-0.0013 ppm	2.0081 ppm	0.1295 ppm	0.0377 ppm	3.0082 ppm	0.0037 ppm	0.1355 ppm
Concentration per Run 2	-0.0016 ppm	1.9381 ppm	0.1288 ppm	0.0374 ppm	2.9862 ppm	0.0026 ppm	0.1336 ppm
Concentration per Run 3	0.0001 ppm	1.9824 ppm	0.1270 ppm	0.0382 ppm	2.9726 ppm	0.0016 ppm	0.1333 ppm
Concentration RSD	93.5 %	1.8 %	1.0 %	1.1 %	0.6 %	39.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2381 ppm	110.9608 %	110.6099 %	105.8206 %	117.2710 %	117.4588 %	114.5910 %
Concentration per Run 1	3.2735 ppm	109.3737 %	113.2163 %	106.0573 %	115.8656 %	120.2657 %	115.0984 %
Concentration per Run 2	3.2232 ppm	111.9569 %	108.9131 %	105.7329 %	118.6003 %	115.5034 %	114.5678 %
Concentration per Run 3	3.2174 ppm	111.5518 %	109.7003 %	105.6715 %	117.3472 %	116.6072 %	114.1066 %
Concentration RSD	1.0 %	1.3 %	2.1 %	0.2 %	1.2 %	2.1 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2430864-06D2 WG1935403
Analysis started at: 6/18/2024 11:12:42 AM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0091 ppm	42.9723 ppm	0.0152 ppm	0.0038 ppm	0.3704 ppm	0.0017 ppm	5.8783 ppm
Concentration per Run 1	0.0095 ppm	42.8708 ppm	0.0151 ppm	0.0034 ppm	0.3681 ppm	0.0017 ppm	5.8646 ppm
Concentration per Run 2	0.0091 ppm	42.7029 ppm	0.0142 ppm	0.0053 ppm	0.3695 ppm	0.0017 ppm	5.8529 ppm
Concentration per Run 3	0.0088 ppm	43.3432 ppm	0.0163 ppm	0.0026 ppm	0.3737 ppm	0.0018 ppm	5.9174 ppm
Concentration RSD	3.9 %	0.8 %	7.1 %	37.5 %	0.8 %	4.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0054 ppm	0.0336 ppm	1.0472 ppm	2.9327 ppm	100.1406 ppm	13.2374 ppm	0.0926 ppm
Concentration per Run 1	0.0053 ppm	0.0338 ppm	1.0452 ppm	2.9300 ppm	99.6546 ppm	13.1769 ppm	0.0914 ppm
Concentration per Run 2	0.0054 ppm	0.0329 ppm	1.0555 ppm	2.9553 ppm	99.7648 ppm	13.2207 ppm	0.0933 ppm
Concentration per Run 3	0.0055 ppm	0.0341 ppm	1.0410 ppm	2.9126 ppm	101.0024 ppm	13.3145 ppm	0.0932 ppm
Concentration RSD	1.5 %	1.8 %	0.7 %	0.7 %	0.7 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4536 ppm	0.9048 ppm	0.0005 ppm	0.7077 ppm	0.2152 ppm	0.6469 ppm	0.0018 ppm
Concentration per Run 1	20.3925 ppm	0.9016 ppm	0.0005 ppm	0.7058 ppm	0.2152 ppm	0.6466 ppm	0.0022 ppm
Concentration per Run 2	20.5788 ppm	0.9030 ppm	0.0006 ppm	0.7037 ppm	0.2183 ppm	0.6386 ppm	-0.0009 ppm
Concentration per Run 3	20.3896 ppm	0.9098 ppm	0.0004 ppm	0.7137 ppm	0.2122 ppm	0.6555 ppm	0.0040 ppm
Concentration RSD	0.5 %	0.5 %	17.6 %	0.7 %	1.4 %	1.3 %	138.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0027 ppm	1.4690 ppm	0.0709 ppm	0.0319 ppm	3.4521 ppm	0.0033 ppm	0.1641 ppm
Concentration per Run 1	-0.0040 ppm	1.4721 ppm	0.0714 ppm	0.0318 ppm	3.4369 ppm	0.0036 ppm	0.1634 ppm
Concentration per Run 2	-0.0036 ppm	1.4887 ppm	0.0708 ppm	0.0318 ppm	3.4765 ppm	0.0024 ppm	0.1649 ppm
Concentration per Run 3	-0.0005 ppm	1.4461 ppm	0.0703 ppm	0.0322 ppm	3.4431 ppm	0.0039 ppm	0.1639 ppm
Concentration RSD	69.6 %	1.5 %	0.8 %	0.9 %	0.6 %	25.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.8663 ppm	111.3157 %	109.9396 %	105.1207 %	115.6636 %	114.3630 %	112.7455 %
Concentration per Run 1	1.8740 ppm	110.7786 %	109.9033 %	104.6790 %	115.5091 %	114.4594 %	112.2578 %
Concentration per Run 2	1.8751 ppm	112.6017 %	110.2307 %	106.6643 %	117.1105 %	114.2888 %	113.8608 %
Concentration per Run 3	1.8499 ppm	110.5668 %	109.6847 %	104.0186 %	114.3711 %	114.3408 %	112.1178 %
Concentration RSD	0.8 %	1.0 %	0.2 %	1.3 %	1.2 %	0.1 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2430864-07D2 WG1935403
Analysis started at: 6/18/2024 11:16:12 AM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0098 ppm	38.1024 ppm	0.0109 ppm	0.0049 ppm	0.3250 ppm	0.0019 ppm	5.5988 ppm
Concentration per Run 1	0.0098 ppm	38.1771 ppm	0.0091 ppm	0.0046 ppm	0.3247 ppm	0.0019 ppm	5.6276 ppm
Concentration per Run 2	0.0096 ppm	37.8260 ppm	0.0112 ppm	0.0055 ppm	0.3228 ppm	0.0018 ppm	5.5416 ppm
Concentration per Run 3	0.0099 ppm	38.3040 ppm	0.0124 ppm	0.0047 ppm	0.3276 ppm	0.0019 ppm	5.6272 ppm
Concentration RSD	1.5 %	0.6 %	15.0 %	10.4 %	0.8 %	2.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0254 ppm	1.3358 ppm	2.9510 ppm	74.7602 ppm	9.3475 ppm	0.0800 ppm
Concentration per Run 1	0.0090 ppm	0.0252 ppm	1.3359 ppm	2.9370 ppm	75.0222 ppm	9.4042 ppm	0.0814 ppm
Concentration per Run 2	0.0089 ppm	0.0255 ppm	1.3426 ppm	2.9663 ppm	74.1121 ppm	9.2594 ppm	0.0784 ppm
Concentration per Run 3	0.0093 ppm	0.0254 ppm	1.3289 ppm	2.9498 ppm	75.1462 ppm	9.3789 ppm	0.0802 ppm
Concentration RSD	2.0 %	0.6 %	0.5 %	0.5 %	0.8 %	0.8 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.8509 ppm	0.9047 ppm	-0.0001 ppm	0.5475 ppm	0.1819 ppm	0.3900 ppm	0.0015 ppm
Concentration per Run 1	15.7245 ppm	0.9050 ppm	-0.0001 ppm	0.5458 ppm	0.1814 ppm	0.3907 ppm	0.0024 ppm
Concentration per Run 2	15.9367 ppm	0.8982 ppm	-0.0006 ppm	0.5442 ppm	0.1829 ppm	0.3889 ppm	-0.0011 ppm
Concentration per Run 3	15.8916 ppm	0.9110 ppm	0.0002 ppm	0.5524 ppm	0.1813 ppm	0.3904 ppm	0.0032 ppm
Concentration RSD	0.7 %	0.7 %	264.4 %	0.8 %	0.5 %	0.2 %	152.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	1.8411 ppm	0.0688 ppm	0.0346 ppm	3.0737 ppm	0.0030 ppm	0.1135 ppm
Concentration per Run 1	-0.0005 ppm	1.8319 ppm	0.0679 ppm	0.0348 ppm	3.0592 ppm	0.0030 ppm	0.1128 ppm
Concentration per Run 2	-0.0027 ppm	1.8600 ppm	0.0698 ppm	0.0341 ppm	3.0846 ppm	0.0022 ppm	0.1143 ppm
Concentration per Run 3	-0.0043 ppm	1.8314 ppm	0.0686 ppm	0.0349 ppm	3.0774 ppm	0.0038 ppm	0.1134 ppm
Concentration RSD	75.2 %	0.9 %	1.4 %	1.3 %	0.4 %	27.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9332 ppm	111.3205 %	108.4466 %	106.7822 %	116.6807 %	113.9365 %	114.4903 %
Concentration per Run 1	1.9291 ppm	111.2072 %	106.9052 %	106.4239 %	116.6581 %	112.7667 %	114.1613 %
Concentration per Run 2	1.9488 ppm	111.3638 %	110.1448 %	107.7576 %	116.6342 %	114.4269 %	115.4992 %
Concentration per Run 3	1.9218 ppm	111.3906 %	108.2898 %	106.1650 %	116.7497 %	114.6159 %	113.8103 %
Concentration RSD	0.7 %	0.1 %	1.5 %	0.8 %	0.1 %	0.9 %	0.8 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-4D2 WG1935403
Analysis started at: 6/18/2024 11:19:42 AM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0599 ppm	44.0892 ppm	0.1261 ppm	0.9091 ppm	2.2361 ppm	0.0500 ppm	15.1604 ppm
Concentration per Run 1	0.0604 ppm	44.1513 ppm	0.1274 ppm	0.9190 ppm	2.2327 ppm	0.0500 ppm	15.1997 ppm
Concentration per Run 2	0.0588 ppm	44.1826 ppm	0.1214 ppm	0.9003 ppm	2.2531 ppm	0.0503 ppm	15.2212 ppm
Concentration per Run 3	0.0604 ppm	43.9336 ppm	0.1294 ppm	0.9080 ppm	2.2226 ppm	0.0496 ppm	15.0602 ppm
Concentration RSD	1.5 %	0.3 %	3.3 %	1.0 %	0.7 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0579 ppm	0.4887 ppm	1.6496 ppm	3.4615 ppm	79.6427 ppm	19.8145 ppm	0.0858 ppm
Concentration per Run 1	0.0591 ppm	0.4952 ppm	1.6662 ppm	3.4912 ppm	79.6026 ppm	19.7899 ppm	0.0864 ppm
Concentration per Run 2	0.0578 ppm	0.4841 ppm	1.6330 ppm	3.4296 ppm	80.1368 ppm	19.9262 ppm	0.0850 ppm
Concentration per Run 3	0.0568 ppm	0.4867 ppm	1.6497 ppm	3.4638 ppm	79.1886 ppm	19.7273 ppm	0.0858 ppm
Concentration RSD	2.0 %	1.2 %	1.0 %	0.9 %	0.6 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.3119 ppm	1.4115 ppm	0.9254 ppm	10.0997 ppm	0.6152 ppm	0.8892 ppm	0.4564 ppm
Concentration per Run 1	26.5184 ppm	1.4138 ppm	0.9208 ppm	10.0949 ppm	0.6219 ppm	0.8834 ppm	0.4630 ppm
Concentration per Run 2	26.1139 ppm	1.4186 ppm	0.9196 ppm	10.0666 ppm	0.6088 ppm	0.8891 ppm	0.4541 ppm
Concentration per Run 3	26.3034 ppm	1.4021 ppm	0.9358 ppm	10.1375 ppm	0.6149 ppm	0.8950 ppm	0.4522 ppm
Concentration RSD	0.8 %	0.6 %	1.0 %	0.4 %	1.1 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1119 ppm	2.9285 ppm	0.9810 ppm	0.9279 ppm	4.4710 ppm	0.1152 ppm	0.5806 ppm
Concentration per Run 1	0.1109 ppm	2.9256 ppm	0.9894 ppm	0.9274 ppm	4.4975 ppm	0.1136 ppm	0.5856 ppm
Concentration per Run 2	0.1127 ppm	2.9243 ppm	0.9718 ppm	0.9286 ppm	4.4363 ppm	0.1143 ppm	0.5763 ppm
Concentration per Run 3	0.1120 ppm	2.9355 ppm	0.9818 ppm	0.9275 ppm	4.4791 ppm	0.1177 ppm	0.5800 ppm
Concentration RSD	0.8 %	0.2 %	0.9 %	0.1 %	0.7 %	1.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.8590 ppm	110.8996 %	110.5755 %	104.3836 %	116.9592 %	116.9162 %	113.8257 %
Concentration per Run 1	2.8978 ppm	110.0565 %	111.2175 %	105.3176 %	116.4370 %	117.9468 %	114.9970 %
Concentration per Run 2	2.8287 ppm	111.1495 %	109.2376 %	103.9117 %	116.9028 %	115.2035 %	113.0232 %
Concentration per Run 3	2.8505 ppm	111.4930 %	111.2715 %	103.9216 %	117.5377 %	117.5983 %	113.4570 %
Concentration RSD	1.2 %	0.7 %	1.0 %	0.8 %	0.5 %	1.3 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-5D2 WG1935403
Analysis started at: 6/18/2024 11:23:11 AM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0606 ppm	51.3941 ppm	0.1315 ppm	0.9436 ppm	2.3564 ppm	0.0517 ppm	16.2664 ppm
Concentration per Run 1	0.0606 ppm	51.3404 ppm	0.1329 ppm	0.9424 ppm	2.3760 ppm	0.0520 ppm	16.2949 ppm
Concentration per Run 2	0.0604 ppm	51.3441 ppm	0.1296 ppm	0.9408 ppm	2.3455 ppm	0.0515 ppm	16.2576 ppm
Concentration per Run 3	0.0609 ppm	51.4976 ppm	0.1321 ppm	0.9476 ppm	2.3478 ppm	0.0516 ppm	16.2466 ppm
Concentration RSD	0.4 %	0.2 %	1.3 %	0.4 %	0.7 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0598 ppm	0.5148 ppm	1.5997 ppm	4.4684 ppm	90.0266 ppm	21.9417 ppm	0.1030 ppm
Concentration per Run 1	0.0594 ppm	0.5144 ppm	1.6026 ppm	4.4649 ppm	90.1878 ppm	22.0251 ppm	0.1050 ppm
Concentration per Run 2	0.0599 ppm	0.5116 ppm	1.5931 ppm	4.4353 ppm	89.9371 ppm	21.8395 ppm	0.1022 ppm
Concentration per Run 3	0.0602 ppm	0.5183 ppm	1.6035 ppm	4.5052 ppm	89.9550 ppm	21.9605 ppm	0.1018 ppm
Concentration RSD	0.7 %	0.7 %	0.4 %	0.8 %	0.2 %	0.4 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.7730 ppm	1.6232 ppm	0.9797 ppm	10.4250 ppm	0.6490 ppm	0.9783 ppm	0.4881 ppm
Concentration per Run 1	30.6996 ppm	1.6198 ppm	0.9657 ppm	10.4288 ppm	0.6500 ppm	0.9861 ppm	0.4861 ppm
Concentration per Run 2	30.7577 ppm	1.6245 ppm	0.9732 ppm	10.3695 ppm	0.6462 ppm	0.9806 ppm	0.4828 ppm
Concentration per Run 3	30.8616 ppm	1.6253 ppm	1.0003 ppm	10.4768 ppm	0.6507 ppm	0.9681 ppm	0.4953 ppm
Concentration RSD	0.3 %	0.2 %	1.9 %	0.5 %	0.4 %	0.9 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1170 ppm	2.7296 ppm	1.0322 ppm	0.9594 ppm	5.2217 ppm	0.1204 ppm	0.6261 ppm
Concentration per Run 1	0.1182 ppm	2.7426 ppm	1.0320 ppm	0.9623 ppm	5.2223 ppm	0.1200 ppm	0.6269 ppm
Concentration per Run 2	0.1167 ppm	2.7308 ppm	1.0263 ppm	0.9587 ppm	5.2067 ppm	0.1211 ppm	0.6210 ppm
Concentration per Run 3	0.1161 ppm	2.7155 ppm	1.0384 ppm	0.9571 ppm	5.2360 ppm	0.1200 ppm	0.6303 ppm
Concentration RSD	1.0 %	0.5 %	0.6 %	0.3 %	0.3 %	0.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6150 ppm	108.8296 %	109.8732 %	102.6950 %	115.2808 %	116.7089 %	112.4141 %
Concentration per Run 1	2.6074 ppm	109.9892 %	109.6368 %	102.3876 %	116.5761 %	116.7896 %	111.6979 %
Concentration per Run 2	2.6118 ppm	108.7481 %	111.1797 %	103.0706 %	115.0221 %	117.9758 %	112.7306 %
Concentration per Run 3	2.6259 ppm	107.7515 %	108.8033 %	102.6268 %	114.2442 %	115.3613 %	112.8138 %
Concentration RSD	0.4 %	1.0 %	1.1 %	0.3 %	1.0 %	1.1 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-6D2 WG1935403
Analysis started at: 6/18/2024 11:26:41 AM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0546 ppm	39.8791 ppm	0.1233 ppm	0.9077 ppm	2.1686 ppm	0.0485 ppm	14.8320 ppm
Concentration per Run 1	0.0546 ppm	40.1554 ppm	0.1219 ppm	0.9030 ppm	2.1852 ppm	0.0489 ppm	14.9296 ppm
Concentration per Run 2	0.0545 ppm	39.8454 ppm	0.1247 ppm	0.9085 ppm	2.1612 ppm	0.0483 ppm	14.8309 ppm
Concentration per Run 3	0.0546 ppm	39.6365 ppm	0.1233 ppm	0.9115 ppm	2.1594 ppm	0.0483 ppm	14.7356 ppm
Concentration RSD	0.1 %	0.7 %	1.2 %	0.5 %	0.7 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0567 ppm	0.4618 ppm	1.5038 ppm	3.1269 ppm	74.8417 ppm	19.2865 ppm	0.0805 ppm
Concentration per Run 1	0.0565 ppm	0.4609 ppm	1.4933 ppm	3.1026 ppm	75.3254 ppm	19.4354 ppm	0.0815 ppm
Concentration per Run 2	0.0571 ppm	0.4624 ppm	1.5107 ppm	3.1365 ppm	74.5346 ppm	19.2091 ppm	0.0809 ppm
Concentration per Run 3	0.0566 ppm	0.4620 ppm	1.5073 ppm	3.1416 ppm	74.6649 ppm	19.2149 ppm	0.0793 ppm
Concentration RSD	0.6 %	0.2 %	0.6 %	0.7 %	0.6 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.7327 ppm	1.3502 ppm	0.8724 ppm	10.2933 ppm	0.6168 ppm	0.8813 ppm	0.4044 ppm
Concentration per Run 1	24.5590 ppm	1.3646 ppm	0.8509 ppm	10.4084 ppm	0.6130 ppm	0.8846 ppm	0.3970 ppm
Concentration per Run 2	24.7566 ppm	1.3442 ppm	0.8728 ppm	10.2176 ppm	0.6185 ppm	0.8841 ppm	0.4077 ppm
Concentration per Run 3	24.8827 ppm	1.3420 ppm	0.8936 ppm	10.2538 ppm	0.6188 ppm	0.8751 ppm	0.4087 ppm
Concentration RSD	0.7 %	0.9 %	2.4 %	1.0 %	0.5 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1114 ppm	2.6818 ppm	0.9701 ppm	0.9461 ppm	3.9502 ppm	0.1148 ppm	0.5515 ppm
Concentration per Run 1	0.1097 ppm	2.6660 ppm	0.9657 ppm	0.9520 ppm	3.9228 ppm	0.1132 ppm	0.5493 ppm
Concentration per Run 2	0.1112 ppm	2.6939 ppm	0.9729 ppm	0.9408 ppm	3.9539 ppm	0.1147 ppm	0.5513 ppm
Concentration per Run 3	0.1133 ppm	2.6854 ppm	0.9717 ppm	0.9455 ppm	3.9740 ppm	0.1164 ppm	0.5540 ppm
Concentration RSD	1.6 %	0.5 %	0.4 %	0.6 %	0.7 %	1.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.3571 ppm	109.7046 %	108.6119 %	102.7470 %	115.1135 %	114.0045 %	110.4629 %
Concentration per Run 1	2.3403 ppm	110.2928 %	107.9814 %	103.1905 %	115.6826 %	113.3723 %	111.1592 %
Concentration per Run 2	2.3661 ppm	109.5848 %	108.0034 %	102.1309 %	115.1283 %	113.6048 %	109.6277 %
Concentration per Run 3	2.3649 ppm	109.2361 %	109.8507 %	102.9198 %	114.5297 %	115.0364 %	110.6018 %
Concentration RSD	0.6 %	0.5 %	1.0 %	0.5 %	0.5 %	0.8 %	0.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 11:30:10 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4670 ppm	0.4915 ppm	0.4621 ppm	0.4623 ppm	0.4749 ppm	0.4835 ppm	0.4571 ppm
Concentration per Run 1	0.4682 ppm	0.4992 ppm	0.4598 ppm	0.4622 ppm	0.4763 ppm	0.4840 ppm	0.4613 ppm
Concentration per Run 2	0.4644 ppm	0.4905 ppm	0.4589 ppm	0.4591 ppm	0.4756 ppm	0.4836 ppm	0.4565 ppm
Concentration per Run 3	0.4682 ppm	0.4847 ppm	0.4675 ppm	0.4655 ppm	0.4727 ppm	0.4828 ppm	0.4534 ppm
Recovery Percentage 1	93.391 %	98.296 %	92.410 %	92.451 %	94.973 %	96.698 %	91.411 %
Concentration RSD	0.5 %	1.5 %	1.0 %	0.7 %	0.4 %	0.1 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4637 ppm	0.4702 ppm	0.4554 ppm	0.4600 ppm	0.4814 ppm	4.9095 ppm	0.4713 ppm
Concentration per Run 1	0.4652 ppm	0.4728 ppm	0.4558 ppm	0.4592 ppm	0.4814 ppm	4.9358 ppm	0.4761 ppm
Concentration per Run 2	0.4631 ppm	0.4692 ppm	0.4523 ppm	0.4578 ppm	0.4832 ppm	4.9053 ppm	0.4699 ppm
Concentration per Run 3	0.4627 ppm	0.4686 ppm	0.4580 ppm	0.4630 ppm	0.4796 ppm	4.8873 ppm	0.4678 ppm
Recovery Percentage 1	92.731 %	94.041 %	91.074 %	91.998 %	96.281 %	98.190 %	94.256 %
Concentration RSD	0.3 %	0.5 %	0.6 %	0.6 %	0.4 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4486 ppm	0.4602 ppm	0.4803 ppm	9.3909 ppm	0.4693 ppm	0.4706 ppm	0.4769 ppm
Concentration per Run 1	0.4551 ppm	0.4601 ppm	0.4753 ppm	9.4485 ppm	0.4717 ppm	0.4702 ppm	0.4803 ppm
Concentration per Run 2	0.4430 ppm	0.4625 ppm	0.4795 ppm	9.3754 ppm	0.4658 ppm	0.4656 ppm	0.4750 ppm
Concentration per Run 3	0.4476 ppm	0.4580 ppm	0.4862 ppm	9.3489 ppm	0.4705 ppm	0.4760 ppm	0.4755 ppm
Recovery Percentage 1	89.711 %	92.035 %	96.061 %	93.909 %	93.863 %	94.120 %	95.385 %
Concentration RSD	1.4 %	0.5 %	1.1 %	0.5 %	0.7 %	1.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4637 ppm	5.2366 ppm	0.4866 ppm	0.4793 ppm	0.4614 ppm	0.4753 ppm	0.4541 ppm
Concentration per Run 1	0.4611 ppm	5.2219 ppm	0.4876 ppm	0.4813 ppm	0.4629 ppm	0.4712 ppm	0.4558 ppm
Concentration per Run 2	0.4636 ppm	5.2395 ppm	0.4840 ppm	0.4797 ppm	0.4589 ppm	0.4738 ppm	0.4516 ppm
Concentration per Run 3	0.4665 ppm	5.2485 ppm	0.4883 ppm	0.4769 ppm	0.4623 ppm	0.4808 ppm	0.4547 ppm
Recovery Percentage 1	92.743 %	99.745 %	97.320 %	95.861 %	92.272 %	95.055 %	90.810 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.5 %	0.5 %	1.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4635 ppm	109.8612 %	108.0216 %	106.2685 %	110.3017 %	108.2102 %	107.6670 %
Concentration per Run 1	0.4665 ppm	109.1103 %	108.0349 %	107.2048 %	109.2798 %	108.4639 %	108.6101 %
Concentration per Run 2	0.4601 ppm	111.0772 %	107.3452 %	107.0683 %	111.5161 %	107.3695 %	108.3736 %
Concentration per Run 3	0.4639 ppm	109.3962 %	108.6849 %	104.5324 %	110.1093 %	108.7972 %	106.0174 %
Recovery Percentage 1	92.700 %						
Concentration RSD	0.7 %	1.0 %	0.6 %	1.4 %	1.0 %	0.7 %	1.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:33:39 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0279 ppm	0.0015 ppm	0.0021 ppm	0.0001 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 1	0.0006 ppm	0.0412 ppm	0.0016 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	0.0006 ppm	0.0235 ppm	0.0023 ppm	0.0021 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	0.0191 ppm	0.0005 ppm	0.0030 ppm	0.0000 ppm	0.0001 ppm	0.0046 ppm
Recovery Percentage 1	9.598 %	27.932 %	29.115 %	6.900 %	1.327 %	3.220 %	3.205 %
Concentration RSD	14.2 %	41.9 %	62.9 %	44.7 %	98.4 %	34.3 %	74.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0007 ppm	-0.0005 ppm	-0.0001 ppm	0.0017 ppm	0.0574 ppm	-0.0002 ppm
Concentration per Run 1	0.0006 ppm	-0.0011 ppm	-0.0007 ppm	0.0000 ppm	0.0029 ppm	0.0633 ppm	-0.0002 ppm
Concentration per Run 2	0.0005 ppm	-0.0005 ppm	-0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0495 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	-0.0004 ppm	0.0002 ppm	0.0018 ppm	0.0594 ppm	-0.0008 ppm
Recovery Percentage 1	8.972 %	-3.624 %	-4.604 %	-0.524 %	3.319 %	2.296 %	-4.904 %
Concentration RSD	41.4 %	50.7 %	53.1 %	399.9 %	76.7 %	12.4 %	218.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0004 ppm	0.0002 ppm	-0.0114 ppm	-0.0007 ppm	-0.0003 ppm	0.0031 ppm
Concentration per Run 1	-0.0013 ppm	0.0004 ppm	0.0004 ppm	-0.0137 ppm	-0.0020 ppm	-0.0007 ppm	0.0017 ppm
Concentration per Run 2	-0.0021 ppm	0.0004 ppm	-0.0002 ppm	-0.0112 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	-0.0006 ppm	0.0004 ppm	0.0004 ppm	-0.0093 ppm	-0.0007 ppm	0.0000 ppm	0.0071 ppm
Recovery Percentage 1	-1.339 %	3.896 %	0.372 %	-0.571 %	-2.980 %	-3.008 %	6.270 %
Concentration RSD	55.5 %	7.3 %	184.3 %	19.4 %	164.7 %	114.8 %	111.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0101 ppm	-0.0002 ppm	0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0101 ppm	0.0008 ppm	0.0003 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0035 ppm	0.0095 ppm	-0.0013 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0030 ppm	0.0108 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	-0.0005 ppm	0.0000 ppm
Recovery Percentage 1	1.371 %	2.024 %	-0.331 %	1.805 %	-6.508 %	-0.041 %	-0.028 %
Concentration RSD	2,405.8 %	6.9 %	640.4 %	52.4 %	33.8 %	7,092.9 %	1,411.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	110.5254 %	109.0584 %	108.0376 %	112.7534 %	110.1452 %	109.1786 %
Concentration per Run 1	0.0000 ppm	109.4078 %	109.3088 %	108.1140 %	112.0772 %	110.3820 %	109.3764 %
Concentration per Run 2	-0.0004 ppm	110.7283 %	107.6864 %	107.7122 %	112.6043 %	108.6070 %	108.6918 %
Concentration per Run 3	-0.0003 ppm	111.4399 %	110.1800 %	108.2866 %	113.5786 %	111.4467 %	109.4677 %
Recovery Percentage 1	-4.412 %						
Concentration RSD	92.4 %	0.9 %	1.2 %	0.3 %	0.7 %	1.3 %	0.4 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935403-7D10 WG1935403
Analysis started at: 6/18/2024 11:37:09 AM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	7.8414 ppm	0.0024 ppm	0.0023 ppm	0.0679 ppm	0.0004 ppm	1.1464 ppm
Concentration per Run 1	0.0021 ppm	7.7981 ppm	0.0021 ppm	0.0013 ppm	0.0676 ppm	0.0004 ppm	1.1365 ppm
Concentration per Run 2	0.0028 ppm	7.8093 ppm	0.0026 ppm	0.0040 ppm	0.0678 ppm	0.0004 ppm	1.1406 ppm
Concentration per Run 3	0.0024 ppm	7.9167 ppm	0.0025 ppm	0.0014 ppm	0.0683 ppm	0.0004 ppm	1.1621 ppm
Concentration RSD	13.7 %	0.8 %	11.9 %	67.8 %	0.5 %	3.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0048 ppm	0.2718 ppm	0.6106 ppm	15.7948 ppm	1.9622 ppm	0.0170 ppm
Concentration per Run 1	0.0021 ppm	0.0047 ppm	0.2727 ppm	0.6124 ppm	15.7009 ppm	1.9501 ppm	0.0170 ppm
Concentration per Run 2	0.0023 ppm	0.0047 ppm	0.2711 ppm	0.6124 ppm	15.7313 ppm	1.9517 ppm	0.0171 ppm
Concentration per Run 3	0.0021 ppm	0.0049 ppm	0.2715 ppm	0.6071 ppm	15.9522 ppm	1.9849 ppm	0.0168 ppm
Concentration RSD	4.9 %	2.7 %	0.3 %	0.5 %	0.9 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2917 ppm	0.1838 ppm	-0.0009 ppm	0.1068 ppm	0.0381 ppm	0.0813 ppm	-0.0019 ppm
Concentration per Run 1	3.2980 ppm	0.1824 ppm	-0.0007 ppm	0.1047 ppm	0.0376 ppm	0.0807 ppm	0.0005 ppm
Concentration per Run 2	3.2981 ppm	0.1825 ppm	-0.0011 ppm	0.1058 ppm	0.0383 ppm	0.0819 ppm	-0.0051 ppm
Concentration per Run 3	3.2790 ppm	0.1864 ppm	-0.0008 ppm	0.1098 ppm	0.0383 ppm	0.0813 ppm	-0.0012 ppm
Concentration RSD	0.3 %	1.2 %	21.5 %	2.5 %	1.0 %	0.7 %	149.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	0.3829 ppm	0.0132 ppm	0.0072 ppm	0.6306 ppm	0.0017 ppm	0.0234 ppm
Concentration per Run 1	-0.0032 ppm	0.3826 ppm	0.0138 ppm	0.0071 ppm	0.6316 ppm	0.0013 ppm	0.0235 ppm
Concentration per Run 2	-0.0012 ppm	0.3793 ppm	0.0127 ppm	0.0071 ppm	0.6315 ppm	0.0019 ppm	0.0233 ppm
Concentration per Run 3	-0.0017 ppm	0.3869 ppm	0.0131 ppm	0.0072 ppm	0.6288 ppm	0.0020 ppm	0.0235 ppm
Concentration RSD	52.2 %	1.0 %	4.4 %	1.1 %	0.2 %	19.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3995 ppm	111.3833 %	107.5357 %	108.2000 %	113.3390 %	108.5753 %	109.7820 %
Concentration per Run 1	0.4006 ppm	111.2185 %	108.1758 %	109.7051 %	113.1542 %	109.4800 %	111.2134 %
Concentration per Run 2	0.4012 ppm	110.7318 %	107.5267 %	108.0545 %	112.8243 %	107.8004 %	109.7564 %
Concentration per Run 3	0.3968 ppm	112.1996 %	106.9047 %	106.8404 %	114.0385 %	108.4457 %	108.3762 %
Concentration RSD	0.6 %	0.7 %	0.6 %	1.3 %	0.6 %	0.8 %	1.3 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935354-1 WG1935354
Analysis started at: 6/18/2024 11:41:21 AM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0250 ppm	0.0009 ppm	0.0029 ppm	0.0002 ppm	0.0001 ppm	0.0089 ppm
Concentration per Run 1	0.0013 ppm	0.0261 ppm	0.0000 ppm	0.0033 ppm	0.0001 ppm	0.0001 ppm	0.0073 ppm
Concentration per Run 2	0.0007 ppm	0.0198 ppm	0.0014 ppm	0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 3	0.0008 ppm	0.0292 ppm	0.0013 ppm	0.0031 ppm	0.0002 ppm	0.0001 ppm	0.0107 ppm
Concentration RSD	32.5 %	19.1 %	87.4 %	15.2 %	24.9 %	29.8 %	19.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0008 ppm	-0.0001 ppm	-0.0001 ppm	0.0050 ppm	0.0620 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	-0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0070 ppm	0.0616 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0000 ppm	-0.0003 ppm	0.0053 ppm	0.0588 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0001 ppm	0.0026 ppm	0.0656 ppm	0.0010 ppm
Concentration RSD	41.0 %	35.0 %	104.2 %	362.9 %	44.1 %	5.5 %	264.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0002 ppm	-0.0023 ppm	126.5604 ppm	0.0001 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 1	-0.0015 ppm	0.0002 ppm	-0.0024 ppm	125.3405 ppm	-0.0003 ppm	0.0009 ppm	0.0038 ppm
Concentration per Run 2	0.0021 ppm	0.0002 ppm	-0.0020 ppm	123.4594 ppm	0.0004 ppm	-0.0011 ppm	0.0007 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	-0.0027 ppm	130.8814 ppm	0.0001 ppm	-0.0020 ppm	0.0015 ppm
Concentration RSD	423.9 %	27.1 %	16.3 %	3.0 %	623.3 %	201.7 %	80.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0319 ppm	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0004 ppm	0.0335 ppm	-0.0003 ppm	0.0001 ppm	-0.0006 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0333 ppm	0.0003 ppm	0.0002 ppm	-0.0005 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0068 ppm	0.0288 ppm	-0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0000 ppm
Concentration RSD	214.5 %	8.4 %	562.9 %	32.6 %	14.5 %	980.8 %	434.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	104.5692 %	105.4924 %	95.9213 %	104.3533 %	105.8213 %	101.4229 %
Concentration per Run 1	0.0000 ppm	105.4366 %	105.8558 %	96.1201 %	105.1810 %	106.1887 %	101.4895 %
Concentration per Run 2	0.0002 ppm	104.8456 %	108.2547 %	95.6494 %	104.5740 %	107.7306 %	101.3944 %
Concentration per Run 3	0.0002 ppm	103.4253 %	102.3667 %	95.9945 %	103.3049 %	103.5445 %	101.3847 %
Concentration RSD	73.5 %	1.0 %	2.8 %	0.3 %	0.9 %	2.0 %	0.1 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935354-2 WG1935354
Analysis started at: 6/18/2024 11:45:01 AM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0433 ppm	1.7517 ppm	0.1075 ppm	0.8003 ppm	1.7500 ppm	0.0438 ppm	8.5140 ppm
Concentration per Run 1	0.0435 ppm	1.7504 ppm	0.1080 ppm	0.8055 ppm	1.7574 ppm	0.0438 ppm	8.4620 ppm
Concentration per Run 2	0.0431 ppm	1.7485 ppm	0.1068 ppm	0.7955 ppm	1.7421 ppm	0.0436 ppm	8.5131 ppm
Concentration per Run 3	0.0433 ppm	1.7561 ppm	0.1077 ppm	0.7998 ppm	1.7504 ppm	0.0440 ppm	8.5668 ppm
Concentration RSD	0.5 %	0.2 %	0.6 %	0.6 %	0.4 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0456 ppm	0.4169 ppm	0.1660 ppm	0.2113 ppm	0.8794 ppm	8.7903 ppm	0.0005 ppm
Concentration per Run 1	0.0460 ppm	0.4210 ppm	0.1670 ppm	0.2129 ppm	0.8810 ppm	8.8295 ppm	0.0000 ppm
Concentration per Run 2	0.0453 ppm	0.4150 ppm	0.1654 ppm	0.2111 ppm	0.8765 ppm	8.7568 ppm	0.0000 ppm
Concentration per Run 3	0.0456 ppm	0.4149 ppm	0.1658 ppm	0.2099 ppm	0.8808 ppm	8.7847 ppm	0.0013 ppm
Concentration RSD	0.7 %	0.8 %	0.5 %	0.7 %	0.3 %	0.4 %	162.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.1554 ppm	0.4289 ppm	0.8731 ppm	8.6890 ppm	0.4180 ppm	0.4806 ppm	0.4303 ppm
Concentration per Run 1	8.2601 ppm	0.4279 ppm	0.8753 ppm	8.6773 ppm	0.4223 ppm	0.4770 ppm	0.4337 ppm
Concentration per Run 2	8.0956 ppm	0.4287 ppm	0.8703 ppm	8.6901 ppm	0.4149 ppm	0.4755 ppm	0.4310 ppm
Concentration per Run 3	8.1104 ppm	0.4303 ppm	0.8736 ppm	8.6996 ppm	0.4169 ppm	0.4892 ppm	0.4263 ppm
Concentration RSD	1.1 %	0.3 %	0.3 %	0.1 %	0.9 %	1.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1016 ppm	1.0123 ppm	0.8399 ppm	0.8317 ppm	0.8248 ppm	0.1108 ppm	0.4215 ppm
Concentration per Run 1	0.0995 ppm	1.0227 ppm	0.8428 ppm	0.8369 ppm	0.8334 ppm	0.1096 ppm	0.4252 ppm
Concentration per Run 2	0.1003 ppm	1.0081 ppm	0.8376 ppm	0.8287 ppm	0.8191 ppm	0.1105 ppm	0.4192 ppm
Concentration per Run 3	0.1050 ppm	1.0062 ppm	0.8392 ppm	0.8296 ppm	0.8220 ppm	0.1124 ppm	0.4200 ppm
Concentration RSD	2.9 %	0.9 %	0.3 %	0.5 %	0.9 %	1.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4110 ppm	110.2366 %	109.2087 %	104.4592 %	110.7654 %	109.2375 %	107.1098 %
Concentration per Run 1	0.4155 ppm	110.0091 %	110.1116 %	105.4513 %	110.5044 %	109.7712 %	108.0760 %
Concentration per Run 2	0.4079 ppm	110.8569 %	109.2055 %	104.9187 %	111.6502 %	109.3777 %	107.3545 %
Concentration per Run 3	0.4098 ppm	109.8439 %	108.3089 %	103.0076 %	110.1414 %	108.5635 %	105.8991 %
Concentration RSD	1.0 %	0.5 %	0.8 %	1.2 %	0.7 %	0.6 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2430864-03D4 WG1935403
Analysis started at: 6/18/2024 11:48:32 AM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0620 ppm	40.9417 ppm	0.0195 ppm	0.0068 ppm	0.5472 ppm	0.0023 ppm	6.6068 ppm
Concentration per Run 1	0.0629 ppm	40.4873 ppm	0.0184 ppm	0.0064 ppm	0.5430 ppm	0.0023 ppm	6.5598 ppm
Concentration per Run 2	0.0630 ppm	41.2399 ppm	0.0200 ppm	0.0064 ppm	0.5495 ppm	0.0023 ppm	6.6294 ppm
Concentration per Run 3	0.0602 ppm	41.0978 ppm	0.0202 ppm	0.0077 ppm	0.5491 ppm	0.0024 ppm	6.6313 ppm
Concentration RSD	2.5 %	1.0 %	5.1 %	11.0 %	0.7 %	1.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0377 ppm	0.0258 ppm	4.4364 ppm	9.8133 ppm	70.4125 ppm	9.5637 ppm	0.0630 ppm
Concentration per Run 1	0.0380 ppm	0.0261 ppm	4.5106 ppm	9.9499 ppm	69.8942 ppm	9.4715 ppm	0.0624 ppm
Concentration per Run 2	0.0385 ppm	0.0264 ppm	4.5048 ppm	9.9882 ppm	70.7453 ppm	9.6330 ppm	0.0630 ppm
Concentration per Run 3	0.0366 ppm	0.0249 ppm	4.2936 ppm	9.5017 ppm	70.5980 ppm	9.5865 ppm	0.0635 ppm
Concentration RSD	2.7 %	3.1 %	2.8 %	2.8 %	0.6 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.0210 ppm	1.0407 ppm	0.0065 ppm	0.4833 ppm	0.4547 ppm	0.9505 ppm	0.0051 ppm
Concentration per Run 1	14.2093 ppm	1.0360 ppm	0.0063 ppm	0.4775 ppm	0.4621 ppm	0.9606 ppm	0.0060 ppm
Concentration per Run 2	14.2462 ppm	1.0428 ppm	0.0069 ppm	0.4812 ppm	0.4607 ppm	0.9464 ppm	0.0053 ppm
Concentration per Run 3	13.6074 ppm	1.0432 ppm	0.0063 ppm	0.4910 ppm	0.4414 ppm	0.9445 ppm	0.0040 ppm
Concentration RSD	2.6 %	0.4 %	5.3 %	1.4 %	2.5 %	0.9 %	20.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	1.3789 ppm	0.2733 ppm	0.0489 ppm	2.5709 ppm	0.0023 ppm	0.1466 ppm
Concentration per Run 1	-0.0034 ppm	1.3844 ppm	0.2756 ppm	0.0485 ppm	2.6114 ppm	0.0024 ppm	0.1490 ppm
Concentration per Run 2	0.0008 ppm	1.4115 ppm	0.2778 ppm	0.0491 ppm	2.6126 ppm	0.0022 ppm	0.1486 ppm
Concentration per Run 3	0.0005 ppm	1.3408 ppm	0.2665 ppm	0.0492 ppm	2.4888 ppm	0.0022 ppm	0.1422 ppm
Concentration RSD	334.0 %	2.6 %	2.2 %	0.8 %	2.8 %	6.0 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.9194 ppm	115.6148 %	112.8578 %	108.0939 %	123.5505 %	120.5051 %	117.3275 %
Concentration per Run 1	5.0142 ppm	113.8863 %	113.4266 %	107.7120 %	121.7354 %	121.2906 %	117.1239 %
Concentration per Run 2	4.9797 ppm	114.5072 %	111.7600 %	108.2776 %	122.6393 %	119.1691 %	117.5078 %
Concentration per Run 3	4.7643 ppm	118.4509 %	113.3869 %	108.2920 %	126.2768 %	121.0556 %	117.3510 %
Concentration RSD	2.8 %	2.1 %	0.8 %	0.3 %	1.9 %	1.0 %	0.2 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432710-01 WG1935354
Analysis started at: 6/18/2024 11:52:01 AM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	0.0189 ppm	-0.0001 ppm	0.0072 ppm	0.0072 ppm	0.0000 ppm	44.0932 ppm
Concentration per Run 1	0.0011 ppm	0.0192 ppm	0.0018 ppm	0.0071 ppm	0.0068 ppm	0.0001 ppm	42.3820 ppm
Concentration per Run 2	0.0011 ppm	0.0183 ppm	-0.0009 ppm	0.0071 ppm	0.0074 ppm	0.0000 ppm	45.4045 ppm
Concentration per Run 3	0.0007 ppm	0.0191 ppm	-0.0013 ppm	0.0073 ppm	0.0074 ppm	0.0000 ppm	44.4931 ppm
Concentration RSD	27.2 %	2.7 %	1,692.9 %	1.2 %	5.0 %	128.7 %	3.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0005 ppm	0.0299 ppm	0.7105 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0294 ppm	0.6875 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	0.0011 ppm	0.0006 ppm	0.0309 ppm	0.7293 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0295 ppm	0.7147 ppm	-0.0010 ppm
Concentration RSD	102.1 %	144.4 %	71.6 %	3.6 %	2.8 %	3.0 %	13.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8501 ppm	0.1040 ppm	-0.0012 ppm	123.3374 ppm	0.0012 ppm	-0.0011 ppm	0.0046 ppm
Concentration per Run 1	2.8365 ppm	0.1006 ppm	-0.0007 ppm	118.6826 ppm	0.0018 ppm	-0.0010 ppm	0.0055 ppm
Concentration per Run 2	2.8535 ppm	0.1065 ppm	-0.0014 ppm	126.8062 ppm	0.0009 ppm	-0.0010 ppm	0.0036 ppm
Concentration per Run 3	2.8603 ppm	0.1051 ppm	-0.0015 ppm	124.5235 ppm	0.0008 ppm	-0.0014 ppm	0.0048 ppm
Concentration RSD	0.4 %	3.0 %	38.2 %	3.4 %	46.8 %	20.5 %	20.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0745 ppm	0.0009 ppm	0.0890 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0034 ppm	0.0732 ppm	0.0022 ppm	0.0858 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0761 ppm	0.0003 ppm	0.0914 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0017 ppm	0.0741 ppm	0.0003 ppm	0.0897 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration RSD	89.1 %	2.0 %	114.7 %	3.2 %	150.0 %	104,900.8 %	80.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	106.1032 %	108.0239 %	97.6744 %	105.7757 %	107.8276 %	104.4560 %
Concentration per Run 1	0.0012 ppm	106.0984 %	111.8518 %	98.3281 %	105.9457 %	111.6423 %	105.0430 %
Concentration per Run 2	0.0010 ppm	105.1793 %	105.9816 %	97.0764 %	104.6032 %	105.5809 %	103.8136 %
Concentration per Run 3	0.0009 ppm	107.0320 %	106.2383 %	97.6186 %	106.7781 %	106.2598 %	104.5113 %
Concentration RSD	15.2 %	0.9 %	3.1 %	0.6 %	1.0 %	3.1 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935354-3 WG1935354
Analysis started at: 6/18/2024 11:55:32 AM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0433 ppm	1.8056 ppm	0.1146 ppm	0.8203 ppm	1.7902 ppm	0.0452 ppm	53.4021 ppm
Concentration per Run 1	0.0431 ppm	1.8064 ppm	0.1166 ppm	0.8234 ppm	1.7794 ppm	0.0451 ppm	53.3181 ppm
Concentration per Run 2	0.0435 ppm	1.8020 ppm	0.1129 ppm	0.8177 ppm	1.7959 ppm	0.0452 ppm	53.3884 ppm
Concentration per Run 3	0.0434 ppm	1.8084 ppm	0.1142 ppm	0.8198 ppm	1.7953 ppm	0.0453 ppm	53.4999 ppm
Concentration RSD	0.4 %	0.2 %	1.6 %	0.3 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0462 ppm	0.4182 ppm	0.1689 ppm	0.2139 ppm	0.9279 ppm	9.6915 ppm	-0.0003 ppm
Concentration per Run 1	0.0462 ppm	0.4203 ppm	0.1693 ppm	0.2159 ppm	0.9229 ppm	9.6375 ppm	0.0000 ppm
Concentration per Run 2	0.0460 ppm	0.4173 ppm	0.1683 ppm	0.2129 ppm	0.9298 ppm	9.7315 ppm	-0.0001 ppm
Concentration per Run 3	0.0463 ppm	0.4170 ppm	0.1691 ppm	0.2127 ppm	0.9310 ppm	9.7056 ppm	-0.0007 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.8 %	0.5 %	0.5 %	138.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9122 ppm	0.5426 ppm	0.8978 ppm	134.2237 ppm	0.4192 ppm	0.4888 ppm	0.4421 ppm
Concentration per Run 1	10.9241 ppm	0.5419 ppm	0.8948 ppm	133.9384 ppm	0.4180 ppm	0.4914 ppm	0.4469 ppm
Concentration per Run 2	10.9236 ppm	0.5411 ppm	0.8953 ppm	134.4452 ppm	0.4193 ppm	0.4833 ppm	0.4366 ppm
Concentration per Run 3	10.8890 ppm	0.5448 ppm	0.9033 ppm	134.2874 ppm	0.4204 ppm	0.4917 ppm	0.4427 ppm
Concentration RSD	0.2 %	0.4 %	0.5 %	0.2 %	0.3 %	1.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1093 ppm	1.1180 ppm	0.8459 ppm	0.9340 ppm	0.8425 ppm	0.1103 ppm	0.4386 ppm
Concentration per Run 1	0.1103 ppm	1.1259 ppm	0.8450 ppm	0.9287 ppm	0.8443 ppm	0.1116 ppm	0.4390 ppm
Concentration per Run 2	0.1094 ppm	1.1143 ppm	0.8437 ppm	0.9389 ppm	0.8411 ppm	0.1088 ppm	0.4380 ppm
Concentration per Run 3	0.1081 ppm	1.1138 ppm	0.8490 ppm	0.9345 ppm	0.8422 ppm	0.1105 ppm	0.4387 ppm
Concentration RSD	1.0 %	0.6 %	0.3 %	0.5 %	0.2 %	1.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4272 ppm	106.7792 %	108.5880 %	95.9084 %	106.4445 %	108.2132 %	102.8278 %
Concentration per Run 1	0.4271 ppm	106.5497 %	109.8501 %	94.8445 %	106.1680 %	109.7549 %	101.9742 %
Concentration per Run 2	0.4260 ppm	106.6940 %	107.4165 %	96.9579 %	106.2924 %	106.8644 %	103.7329 %
Concentration per Run 3	0.4285 ppm	107.0939 %	108.4975 %	95.9228 %	106.8730 %	108.0203 %	102.7762 %
Concentration RSD	0.3 %	0.3 %	1.1 %	1.1 %	0.4 %	1.3 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: WG1935354-4 WG1935354
Analysis started at: 6/18/2024 11:59:02 AM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0222 ppm	0.0000 ppm	0.0086 ppm	0.0072 ppm	0.0000 ppm	43.8854 ppm
Concentration per Run 1	0.0003 ppm	0.0194 ppm	0.0000 ppm	0.0094 ppm	0.0073 ppm	0.0000 ppm	43.5788 ppm
Concentration per Run 2	0.0010 ppm	0.0268 ppm	-0.0002 ppm	0.0095 ppm	0.0071 ppm	0.0000 ppm	44.0167 ppm
Concentration per Run 3	0.0008 ppm	0.0202 ppm	0.0003 ppm	0.0070 ppm	0.0071 ppm	0.0000 ppm	44.0606 ppm
Concentration RSD	50.0 %	18.4 %	725.1 %	16.2 %	1.5 %	317.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0236 ppm	0.7365 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0233 ppm	0.7486 ppm	0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0246 ppm	0.7517 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0229 ppm	0.7090 ppm	-0.0004 ppm
Concentration RSD	46.5 %	467.4 %	571.7 %	158.3 %	3.8 %	3.2 %	156.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8501 ppm	0.1034 ppm	0.0013 ppm	122.9712 ppm	0.0010 ppm	-0.0007 ppm	0.0038 ppm
Concentration per Run 1	2.8479 ppm	0.1031 ppm	0.0018 ppm	122.3021 ppm	0.0019 ppm	-0.0013 ppm	0.0009 ppm
Concentration per Run 2	2.8317 ppm	0.1037 ppm	0.0009 ppm	123.1142 ppm	0.0002 ppm	-0.0008 ppm	0.0043 ppm
Concentration per Run 3	2.8707 ppm	0.1034 ppm	0.0011 ppm	123.4974 ppm	0.0009 ppm	0.0000 ppm	0.0061 ppm
Concentration RSD	0.7 %	0.3 %	35.8 %	0.5 %	80.6 %	93.7 %	70.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0720 ppm	-0.0003 ppm	0.0887 ppm	-0.0004 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0744 ppm	0.0003 ppm	0.0890 ppm	-0.0004 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.0696 ppm	-0.0006 ppm	0.0885 ppm	-0.0005 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	-0.0027 ppm	0.0720 ppm	-0.0007 ppm	0.0886 ppm	-0.0003 ppm	-0.0004 ppm	-0.0001 ppm
Concentration RSD	215.3 %	3.3 %	163.0 %	0.3 %	21.0 %	95.1 %	57.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	106.7963 %	108.2918 %	98.0109 %	106.6789 %	107.9360 %	104.8040 %
Concentration per Run 1	0.0006 ppm	106.5256 %	108.9834 %	98.6036 %	106.5499 %	108.5165 %	105.3695 %
Concentration per Run 2	0.0005 ppm	107.6112 %	107.7856 %	97.4027 %	107.5321 %	107.3704 %	104.1621 %
Concentration per Run 3	0.0007 ppm	106.2523 %	108.1063 %	98.0266 %	105.9545 %	107.9211 %	104.8803 %
Concentration RSD	17.2 %	0.7 %	0.6 %	0.6 %	0.7 %	0.5 %	0.6 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: L2432758-01 WG1935354
Analysis started at: 6/18/2024 12:02:32 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0603 ppm	0.0010 ppm	0.0070 ppm	0.0065 ppm	0.0000 ppm	29.3025 ppm
Concentration per Run 1	0.0006 ppm	0.0541 ppm	0.0015 ppm	0.0068 ppm	0.0064 ppm	0.0001 ppm	29.2459 ppm
Concentration per Run 2	0.0011 ppm	0.0578 ppm	0.0007 ppm	0.0075 ppm	0.0066 ppm	0.0000 ppm	29.5076 ppm
Concentration per Run 3	0.0009 ppm	0.0691 ppm	0.0009 ppm	0.0067 ppm	0.0064 ppm	0.0001 ppm	29.1540 ppm
Concentration RSD	29.0 %	13.0 %	42.6 %	6.3 %	1.2 %	74.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0022 ppm	0.0035 ppm	0.0008 ppm	0.0240 ppm	0.5918 ppm	0.0003 ppm
Concentration per Run 1	0.0015 ppm	0.0023 ppm	0.0036 ppm	0.0006 ppm	0.0246 ppm	0.5978 ppm	0.0022 ppm
Concentration per Run 2	0.0016 ppm	0.0021 ppm	0.0034 ppm	0.0008 ppm	0.0244 ppm	0.5756 ppm	-0.0002 ppm
Concentration per Run 3	0.0015 ppm	0.0022 ppm	0.0034 ppm	0.0009 ppm	0.0229 ppm	0.6018 ppm	-0.0010 ppm
Concentration RSD	5.5 %	3.5 %	2.8 %	21.8 %	3.9 %	2.4 %	486.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7396 ppm	0.0496 ppm	-0.0021 ppm	120.6976 ppm	-0.0003 ppm	0.0064 ppm	0.0034 ppm
Concentration per Run 1	0.7432 ppm	0.0493 ppm	-0.0017 ppm	120.7066 ppm	-0.0016 ppm	0.0065 ppm	0.0061 ppm
Concentration per Run 2	0.7426 ppm	0.0497 ppm	-0.0019 ppm	121.1566 ppm	0.0009 ppm	0.0056 ppm	0.0051 ppm
Concentration per Run 3	0.7330 ppm	0.0498 ppm	-0.0026 ppm	120.2295 ppm	-0.0003 ppm	0.0072 ppm	-0.0009 ppm
Concentration RSD	0.8 %	0.4 %	24.0 %	0.4 %	388.3 %	12.5 %	109.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0833 ppm	-0.0001 ppm	0.0477 ppm	-0.0008 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	-0.0021 ppm	0.0852 ppm	-0.0002 ppm	0.0476 ppm	-0.0009 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	0.0834 ppm	-0.0005 ppm	0.0478 ppm	-0.0010 ppm	-0.0027 ppm	0.0001 ppm
Concentration per Run 3	0.0044 ppm	0.0814 ppm	0.0003 ppm	0.0478 ppm	-0.0006 ppm	-0.0008 ppm	-0.0003 ppm
Concentration RSD	4,351.1 %	2.3 %	263.7 %	0.2 %	27.2 %	60.5 %	174.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4045 ppm	107.4264 %	109.9451 %	98.4998 %	107.4453 %	109.2809 %	104.8972 %
Concentration per Run 1	0.4066 ppm	106.9405 %	109.8117 %	98.2898 %	107.3317 %	109.5396 %	104.6653 %
Concentration per Run 2	0.4052 ppm	107.9979 %	109.4529 %	98.1687 %	107.8870 %	108.7786 %	104.3563 %
Concentration per Run 3	0.4016 ppm	107.3407 %	110.5707 %	99.0408 %	107.1172 %	109.5244 %	105.6700 %
Concentration RSD	0.6 %	0.5 %	0.5 %	0.5 %	0.4 %	0.4 %	0.7 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 12:06:01 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4647 ppm	0.4903 ppm	0.4559 ppm	0.4580 ppm	0.4748 ppm	0.4820 ppm	0.4548 ppm
Concentration per Run 1	0.4650 ppm	0.4910 ppm	0.4547 ppm	0.4584 ppm	0.4755 ppm	0.4816 ppm	0.4600 ppm
Concentration per Run 2	0.4625 ppm	0.4865 ppm	0.4514 ppm	0.4549 ppm	0.4747 ppm	0.4835 ppm	0.4491 ppm
Concentration per Run 3	0.4665 ppm	0.4934 ppm	0.4617 ppm	0.4605 ppm	0.4742 ppm	0.4809 ppm	0.4553 ppm
Recovery Percentage 1	92.942 %	98.063 %	91.184 %	91.593 %	94.960 %	96.398 %	90.965 %
Concentration RSD	0.4 %	0.7 %	1.2 %	0.6 %	0.1 %	0.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4600 ppm	0.4672 ppm	0.4518 ppm	0.4567 ppm	0.4741 ppm	4.9334 ppm	0.4714 ppm
Concentration per Run 1	0.4605 ppm	0.4690 ppm	0.4540 ppm	0.4568 ppm	0.4775 ppm	4.9425 ppm	0.4725 ppm
Concentration per Run 2	0.4602 ppm	0.4647 ppm	0.4497 ppm	0.4533 ppm	0.4706 ppm	4.9498 ppm	0.4710 ppm
Concentration per Run 3	0.4592 ppm	0.4678 ppm	0.4518 ppm	0.4599 ppm	0.4741 ppm	4.9078 ppm	0.4706 ppm
Recovery Percentage 1	91.993 %	93.433 %	90.362 %	91.333 %	94.818 %	98.668 %	94.278 %
Concentration RSD	0.1 %	0.5 %	0.5 %	0.7 %	0.7 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4462 ppm	0.4575 ppm	0.4655 ppm	9.3920 ppm	0.4658 ppm	0.4651 ppm	0.4735 ppm
Concentration per Run 1	0.4487 ppm	0.4600 ppm	0.4633 ppm	9.3882 ppm	0.4676 ppm	0.4691 ppm	0.4756 ppm
Concentration per Run 2	0.4450 ppm	0.4547 ppm	0.4631 ppm	9.3857 ppm	0.4643 ppm	0.4578 ppm	0.4701 ppm
Concentration per Run 3	0.4451 ppm	0.4577 ppm	0.4701 ppm	9.4020 ppm	0.4654 ppm	0.4685 ppm	0.4748 ppm
Recovery Percentage 1	89.250 %	91.495 %	93.099 %	93.920 %	93.152 %	93.022 %	94.699 %
Concentration RSD	0.5 %	0.6 %	0.8 %	0.1 %	0.4 %	1.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4604 ppm	5.2300 ppm	0.4766 ppm	0.4768 ppm	0.4520 ppm	0.4707 ppm	0.4518 ppm
Concentration per Run 1	0.4623 ppm	5.2207 ppm	0.4768 ppm	0.4773 ppm	0.4538 ppm	0.4734 ppm	0.4526 ppm
Concentration per Run 2	0.4596 ppm	5.2067 ppm	0.4757 ppm	0.4759 ppm	0.4495 ppm	0.4651 ppm	0.4502 ppm
Concentration per Run 3	0.4593 ppm	5.2627 ppm	0.4775 ppm	0.4771 ppm	0.4527 ppm	0.4737 ppm	0.4526 ppm
Recovery Percentage 1	92.087 %	99.620 %	95.325 %	95.353 %	90.401 %	94.147 %	90.361 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.2 %	0.5 %	1.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4605 ppm	111.9121 %	108.7256 %	107.7059 %	112.3568 %	108.1271 %	108.4754 %
Concentration per Run 1	0.4630 ppm	110.8693 %	108.0101 %	106.8314 %	111.2706 %	107.4187 %	108.1443 %
Concentration per Run 2	0.4593 ppm	112.6968 %	109.3014 %	109.2043 %	113.0906 %	108.5848 %	109.7427 %
Concentration per Run 3	0.4593 ppm	112.1702 %	108.8655 %	107.0820 %	112.7091 %	108.3778 %	107.5392 %
Recovery Percentage 1	92.108 %						
Concentration RSD	0.5 %	0.8 %	0.6 %	1.2 %	0.9 %	0.6 %	1.0 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 12:09:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0201 ppm	0.0021 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 1	0.0007 ppm	0.0223 ppm	0.0021 ppm	0.0022 ppm	0.0001 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 2	0.0012 ppm	0.0117 ppm	0.0037 ppm	-0.0011 ppm	-0.0001 ppm	0.0001 ppm	0.0060 ppm
Concentration per Run 3	0.0009 ppm	0.0263 ppm	0.0006 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	12.850 %	20.090 %	42.806 %	2.082 %	0.334 %	3.423 %	2.953 %
Concentration RSD	27.1 %	37.5 %	74.6 %	266.9 %	261.5 %	19.8 %	90.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0012 ppm	0.0590 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0401 ppm	0.0005 ppm
Concentration per Run 2	0.0004 ppm	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0797 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	-0.0007 ppm	-0.0006 ppm	0.0002 ppm	0.0025 ppm	0.0572 ppm	-0.0004 ppm
Recovery Percentage 1	7.915 %	-2.225 %	-2.682 %	1.065 %	2.308 %	2.361 %	9.165 %
Concentration RSD	7.7 %	98.9 %	122.9 %	139.3 %	109.6 %	33.6 %	190.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0002 ppm	-0.0005 ppm	-0.0061 ppm	-0.0008 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 1	0.0007 ppm	0.0002 ppm	-0.0002 ppm	-0.0101 ppm	-0.0002 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 2	-0.0010 ppm	0.0002 ppm	-0.0007 ppm	-0.0011 ppm	-0.0007 ppm	0.0003 ppm	0.0038 ppm
Concentration per Run 3	-0.0019 ppm	0.0003 ppm	-0.0004 ppm	-0.0072 ppm	-0.0016 ppm	-0.0005 ppm	0.0104 ppm
Recovery Percentage 1	-0.718 %	2.128 %	-0.902 %	-0.307 %	-3.317 %	0.396 %	10.443 %
Concentration RSD	180.8 %	17.9 %	60.5 %	74.7 %	85.3 %	1,074.7 %	87.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0125 ppm	-0.0002 ppm	0.0002 ppm	-0.0011 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 1	-0.0022 ppm	0.0121 ppm	-0.0006 ppm	0.0002 ppm	-0.0012 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	0.0113 ppm	-0.0005 ppm	0.0002 ppm	-0.0009 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 3	-0.0013 ppm	0.0140 ppm	0.0004 ppm	0.0003 ppm	-0.0012 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-10.383 %	2.492 %	-0.455 %	2.420 %	-10.900 %	6.084 %	-0.573 %
Concentration RSD	128.8 %	11.3 %	228.7 %	17.6 %	14.6 %	58.6 %	129.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	110.4784 %	107.1690 %	108.7829 %	112.6082 %	107.6269 %	109.8021 %
Concentration per Run 1	-0.0002 ppm	111.2192 %	106.9467 %	109.6247 %	113.5289 %	107.4657 %	110.1837 %
Concentration per Run 2	-0.0003 ppm	109.3189 %	107.0897 %	108.0065 %	111.2454 %	107.3064 %	109.2080 %
Concentration per Run 3	-0.0006 ppm	110.8971 %	107.4708 %	108.7175 %	113.0502 %	108.1084 %	110.0146 %
Recovery Percentage 1	-7.270 %						
Concentration RSD	55.4 %	0.9 %	0.3 %	0.7 %	1.1 %	0.4 %	0.5 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCV
Analysis started at: 6/18/2024 12:13:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4570 ppm	0.4776 ppm	0.4527 ppm	0.4492 ppm	0.4623 ppm	0.4698 ppm	0.4405 ppm
Concentration per Run 1	0.4582 ppm	0.4670 ppm	0.4501 ppm	0.4468 ppm	0.4634 ppm	0.4718 ppm	0.4384 ppm
Concentration per Run 2	0.4544 ppm	0.4830 ppm	0.4578 ppm	0.4486 ppm	0.4618 ppm	0.4691 ppm	0.4394 ppm
Concentration per Run 3	0.4585 ppm	0.4829 ppm	0.4501 ppm	0.4522 ppm	0.4617 ppm	0.4686 ppm	0.4436 ppm
Recovery Percentage 1	91.408 %	95.528 %	90.533 %	89.838 %	92.460 %	93.962 %	88.094 %
Concentration RSD	0.5 %	1.9 %	1.0 %	0.6 %	0.2 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4620 ppm	0.4661 ppm	0.4463 ppm	0.4521 ppm	0.4684 ppm	4.8059 ppm	0.5704 ppm
Concentration per Run 1	0.4581 ppm	0.4646 ppm	0.4438 ppm	0.4529 ppm	0.4716 ppm	4.8183 ppm	0.5695 ppm
Concentration per Run 2	0.4667 ppm	0.4658 ppm	0.4457 ppm	0.4487 ppm	0.4676 ppm	4.8175 ppm	0.5704 ppm
Concentration per Run 3	0.4613 ppm	0.4678 ppm	0.4494 ppm	0.4546 ppm	0.4660 ppm	4.7818 ppm	0.5713 ppm
Recovery Percentage 1	92.404 %	93.213 %	89.260 %	90.416 %	93.682 %	96.117 %	114.078 %
Concentration RSD	0.9 %	0.3 %	0.6 %	0.7 %	0.6 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4429 ppm	0.4459 ppm	0.4612 ppm	9.3179 ppm	0.4585 ppm	0.4577 ppm	0.4726 ppm
Concentration per Run 1	0.4446 ppm	0.4455 ppm	0.4580 ppm	9.3014 ppm	0.4571 ppm	0.4589 ppm	0.4696 ppm
Concentration per Run 2	0.4376 ppm	0.4445 ppm	0.4577 ppm	9.3120 ppm	0.4565 ppm	0.4592 ppm	0.4741 ppm
Concentration per Run 3	0.4464 ppm	0.4475 ppm	0.4678 ppm	9.3403 ppm	0.4618 ppm	0.4550 ppm	0.4743 ppm
Recovery Percentage 1	88.572 %	89.170 %	92.231 %	93.179 %	91.694 %	91.540 %	94.527 %
Concentration RSD	1.1 %	0.3 %	1.2 %	0.2 %	0.6 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4526 ppm	5.1481 ppm	0.4595 ppm	0.4524 ppm	0.4455 ppm	0.4650 ppm	0.4455 ppm
Concentration per Run 1	0.4477 ppm	5.1396 ppm	0.4574 ppm	0.4537 ppm	0.4454 ppm	0.4658 ppm	0.4445 ppm
Concentration per Run 2	0.4604 ppm	5.1284 ppm	0.4562 ppm	0.4516 ppm	0.4427 ppm	0.4686 ppm	0.4446 ppm
Concentration per Run 3	0.4496 ppm	5.1763 ppm	0.4648 ppm	0.4519 ppm	0.4483 ppm	0.4607 ppm	0.4473 ppm
Recovery Percentage 1	90.513 %	98.059 %	91.891 %	90.481 %	89.098 %	93.006 %	89.093 %
Concentration RSD	1.5 %	0.5 %	1.0 %	0.2 %	0.6 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4555 ppm	112.2171 %	110.3243 %	108.4512 %	112.6921 %	109.9425 %	109.4199 %
Concentration per Run 1	0.4538 ppm	113.2975 %	110.1528 %	107.3145 %	113.7164 %	109.8178 %	108.4103 %
Concentration per Run 2	0.4525 ppm	112.3577 %	110.5753 %	108.4812 %	112.6466 %	109.9412 %	109.3868 %
Concentration per Run 3	0.4600 ppm	110.9962 %	110.2447 %	109.5580 %	111.7131 %	110.0684 %	110.4626 %
Recovery Percentage 1	91.091 %						
Concentration RSD	0.9 %	1.0 %	0.2 %	1.0 %	0.9 %	0.1 %	0.9 %

ICP DataTrace 9

6/18/2024 1:32:45 PM

LabBook: WG1935555_06182024T9.imexp

Sample: CCB
Analysis started at: 6/18/2024 12:16:29 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0293 ppm	0.0020 ppm	0.0021 ppm	-0.0001 ppm	0.0001 ppm	0.0054 ppm
Concentration per Run 1	0.0010 ppm	0.0269 ppm	0.0020 ppm	0.0018 ppm	0.0000 ppm	0.0001 ppm	0.0052 ppm
Concentration per Run 2	0.0007 ppm	0.0332 ppm	0.0010 ppm	0.0037 ppm	-0.0001 ppm	0.0002 ppm	0.0062 ppm
Concentration per Run 3	0.0005 ppm	0.0278 ppm	0.0030 ppm	0.0009 ppm	-0.0001 ppm	0.0001 ppm	0.0047 ppm
Recovery Percentage 1	10.406 %	29.328 %	40.699 %	7.119 %	-0.683 %	3.604 %	5.356 %
Concentration RSD	30.8 %	11.7 %	48.6 %	66.0 %	93.7 %	14.8 %	14.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0022 ppm	0.0668 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	0.0017 ppm	0.0693 ppm	0.0008 ppm
Concentration per Run 2	0.0003 ppm	-0.0003 ppm	-0.0007 ppm	0.0002 ppm	0.0016 ppm	0.0784 ppm	-0.0001 ppm
Concentration per Run 3	0.0004 ppm	-0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0032 ppm	0.0526 ppm	-0.0006 ppm
Recovery Percentage 1	7.869 %	-1.407 %	-4.201 %	0.048 %	4.331 %	2.672 %	1.078 %
Concentration RSD	28.4 %	24.1 %	52.8 %	3,979.6 %	40.6 %	19.6 %	1,322.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0001 ppm	-0.0005 ppm	-0.0062 ppm	-0.0012 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0018 ppm	0.0002 ppm	0.0001 ppm	-0.0078 ppm	-0.0010 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	-0.0026 ppm	0.0001 ppm	-0.0005 ppm	-0.0092 ppm	-0.0009 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	-0.0012 ppm	0.0001 ppm	-0.0011 ppm	-0.0016 ppm	-0.0016 ppm	-0.0015 ppm	0.0010 ppm
Recovery Percentage 1	-1.850 %	1.381 %	-0.995 %	-0.311 %	-4.731 %	-5.940 %	0.515 %
Concentration RSD	36.4 %	47.0 %	124.2 %	65.6 %	30.8 %	147.2 %	368.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0110 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0110 ppm	0.0008 ppm	0.0003 ppm	-0.0008 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 2	-0.0007 ppm	0.0113 ppm	-0.0001 ppm	0.0002 ppm	-0.0012 ppm	0.0012 ppm	-0.0003 ppm
Concentration per Run 3	-0.0021 ppm	0.0107 ppm	-0.0007 ppm	0.0002 ppm	-0.0011 ppm	0.0014 ppm	-0.0001 ppm
Recovery Percentage 1	-6.610 %	2.202 %	-0.062 %	2.457 %	-10.194 %	6.342 %	-1.169 %
Concentration RSD	216.3 %	2.4 %	2,462.0 %	28.1 %	24.3 %	11.2 %	144.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	113.4716 %	107.3391 %	107.7212 %	115.9806 %	107.6510 %	108.7276 %
Concentration per Run 1	-0.0001 ppm	111.1805 %	107.8923 %	105.1098 %	113.3155 %	108.5098 %	106.4653 %
Concentration per Run 2	-0.0001 ppm	111.9785 %	108.5872 %	110.8294 %	114.3220 %	108.6549 %	111.9023 %
Concentration per Run 3	-0.0003 ppm	117.2557 %	105.5378 %	107.2244 %	120.3045 %	105.7882 %	107.8151 %
Recovery Percentage 1	-3.813 %						
Concentration RSD	55.4 %	2.9 %	1.5 %	2.7 %	3.3 %	1.5 %	2.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: Blank DHL Trace9
Analysis started at: 6/18/2024 12:38:02 PM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.6 %	0.6 %	0.9 %	2.1 %	0.4 %	-0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.5 %	0.0 %	-0.2 %	-0.1 %	1.5 %	-1.0 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.5 %	-1.0 %	0.7 %	1.1 %	0.4 %	4.6 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	0.0 %	0.3 %	0.4 %	0.0 %	-65.4 %	-13.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	1.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: ICAL
Analysis started at: 6/18/2024 12:41:46 PM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0077 ppm	25.0762 ppm	1.0034 ppm	1.0067 ppm	1.0089 ppm	1.0050 ppm	10.0511 ppm
Concentration per Run 2	0.9986 ppm	24.9590 ppm	1.0125 ppm	1.0041 ppm	0.9953 ppm	0.9980 ppm	9.9210 ppm
Concentration per Run 3	0.9937 ppm	24.9648 ppm	0.9841 ppm	0.9892 ppm	0.9959 ppm	0.9970 ppm	10.0279 ppm
Concentration RSD	0.7 %	0.3 %	1.4 %	0.9 %	0.8 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0069 ppm	1.0089 ppm	1.0130 ppm	1.0060 ppm	25.2245 ppm	35.4343 ppm	1.0121 ppm
Concentration per Run 2	0.9910 ppm	0.9938 ppm	0.9994 ppm	0.9957 ppm	24.8558 ppm	34.6499 ppm	0.9932 ppm
Concentration per Run 3	1.0021 ppm	0.9973 ppm	0.9877 ppm	0.9983 ppm	24.9197 ppm	34.9159 ppm	0.9946 ppm
Concentration RSD	0.8 %	0.8 %	1.3 %	0.5 %	0.8 %	1.1 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0901 ppm	1.0069 ppm	0.9982 ppm	25.2861 ppm	1.0110 ppm	0.9995 ppm	1.0086 ppm
Concentration per Run 2	9.9408 ppm	0.9955 ppm	0.9914 ppm	24.7716 ppm	0.9988 ppm	1.0143 ppm	0.9877 ppm
Concentration per Run 3	9.9691 ppm	0.9977 ppm	1.0103 ppm	24.9423 ppm	0.9902 ppm	0.9861 ppm	1.0036 ppm
Concentration RSD	0.8 %	0.6 %	1.0 %	1.0 %	1.0 %	1.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9969 ppm	10.0824 ppm	1.0077 ppm	1.0066 ppm	1.0070 ppm	1.0034 ppm	1.0075 ppm
Concentration per Run 2	1.0108 ppm	9.9481 ppm	0.9971 ppm	1.0004 ppm	0.9994 ppm	1.0129 ppm	0.9935 ppm
Concentration per Run 3	0.9923 ppm	9.9695 ppm	0.9953 ppm	0.9929 ppm	0.9937 ppm	0.9837 ppm	0.9990 ppm
Concentration RSD	1.0 %	0.7 %	0.7 %	0.7 %	0.7 %	1.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	100.6297 %	101.8321 %	95.6784 %	99.6006 %	100.9729 %	98.7531 %
Concentration per Run 1	1.0119 ppm	100.1148 %	101.4789 %	95.8520 %	99.1138 %	100.7220 %	99.0805 %
Concentration per Run 2	0.9972 ppm	100.9364 %	102.6576 %	94.1857 %	99.8707 %	101.7443 %	97.0357 %
Concentration per Run 3	0.9910 ppm	100.8379 %	101.3598 %	96.9976 %	99.8172 %	100.4524 %	100.1433 %
Concentration RSD	1.1 %	0.4 %	0.7 %	1.5 %	0.4 %	0.7 %	1.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: ICV
Analysis started at: 6/18/2024 12:45:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5020 ppm	0.4811 ppm	0.4739 ppm	0.4959 ppm	0.4980 ppm	0.5100 ppm	0.4857 ppm
Concentration per Run 1	0.5046 ppm	0.4798 ppm	0.4746 ppm	0.5017 ppm	0.4969 ppm	0.5091 ppm	0.4824 ppm
Concentration per Run 2	0.5023 ppm	0.4940 ppm	0.4714 ppm	0.4963 ppm	0.4997 ppm	0.5122 ppm	0.4922 ppm
Concentration per Run 3	0.4992 ppm	0.4694 ppm	0.4756 ppm	0.4899 ppm	0.4975 ppm	0.5086 ppm	0.4826 ppm
Recovery Percentage 1	100.404 %	96.216 %	94.772 %	99.187 %	99.603 %	101.995 %	97.149 %
Concentration RSD	0.5 %	2.6 %	0.5 %	1.2 %	0.3 %	0.4 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5027 ppm	0.5121 ppm	0.4911 ppm	0.4956 ppm	0.5087 ppm	5.1137 ppm	0.6206 ppm
Concentration per Run 1	0.5027 ppm	0.5132 ppm	0.4949 ppm	0.4969 ppm	0.5071 ppm	5.1240 ppm	0.6167 ppm
Concentration per Run 2	0.5008 ppm	0.5111 ppm	0.4921 ppm	0.4949 ppm	0.5125 ppm	5.1062 ppm	0.6251 ppm
Concentration per Run 3	0.5047 ppm	0.5120 ppm	0.4863 ppm	0.4951 ppm	0.5065 ppm	5.1108 ppm	0.6199 ppm
Recovery Percentage 1	100.546 %	102.418 %	98.221 %	99.126 %	101.747 %	102.274 %	124.111 %
Concentration RSD	0.4 %	0.2 %	0.9 %	0.2 %	0.6 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4865 ppm	0.4899 ppm	0.5048 ppm	9.9593 ppm	0.5121 ppm	0.4950 ppm	0.5077 ppm
Concentration per Run 1	0.4898 ppm	0.4877 ppm	0.5013 ppm	9.9374 ppm	0.5182 ppm	0.4958 ppm	0.5090 ppm
Concentration per Run 2	0.4871 ppm	0.4914 ppm	0.5064 ppm	10.0493 ppm	0.5125 ppm	0.4913 ppm	0.5082 ppm
Concentration per Run 3	0.4827 ppm	0.4905 ppm	0.5066 ppm	9.8911 ppm	0.5054 ppm	0.4980 ppm	0.5061 ppm
Recovery Percentage 1	97.310 %	97.977 %	100.954 %	99.593 %	102.412 %	99.005 %	101.549 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.8 %	1.3 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4919 ppm	5.6055 ppm	0.5113 ppm	0.4876 ppm	0.4991 ppm	0.4977 ppm	0.4887 ppm
Concentration per Run 1	0.4923 ppm	5.6162 ppm	0.5141 ppm	0.4860 ppm	0.5029 ppm	0.4972 ppm	0.4910 ppm
Concentration per Run 2	0.4875 ppm	5.6069 ppm	0.5111 ppm	0.4899 ppm	0.5008 ppm	0.4959 ppm	0.4894 ppm
Concentration per Run 3	0.4959 ppm	5.5934 ppm	0.5089 ppm	0.4869 ppm	0.4937 ppm	0.5002 ppm	0.4857 ppm
Recovery Percentage 1	98.380 %	106.772 %	102.269 %	97.525 %	99.830 %	99.549 %	97.737 %
Concentration RSD	0.9 %	0.2 %	0.5 %	0.4 %	1.0 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5086 ppm	102.2390 %	101.3000 %	100.8886 %	101.8239 %	100.6310 %	101.8730 %
Concentration per Run 1	0.5122 ppm	102.1351 %	101.7133 %	101.2405 %	101.6938 %	101.1549 %	102.6851 %
Concentration per Run 2	0.5087 ppm	102.1767 %	101.2484 %	101.3191 %	101.5868 %	100.7819 %	101.6496 %
Concentration per Run 3	0.5049 ppm	102.4052 %	100.9383 %	100.1063 %	102.1912 %	99.9561 %	101.2843 %
Recovery Percentage 1	101.720 %						
Concentration RSD	0.7 %	0.1 %	0.4 %	0.7 %	0.3 %	0.6 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: ICB
Analysis started at: 6/18/2024 12:48:42 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0009 ppm	0.0014 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0008 ppm	-0.0007 ppm	0.0027 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 2	0.0005 ppm	-0.0017 ppm	0.0008 ppm	0.0013 ppm	0.0002 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 3	0.0003 ppm	-0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Recovery Percentage 1	7.635 %	-0.938 %	27.361 %	2.850 %	2.547 %	3.695 %	1.428 %
Concentration RSD	53.1 %	70.0 %	86.3 %	61.1 %	42.9 %	47.2 %	69.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0006 ppm	0.0006 ppm	0.0007 ppm	-0.0099 ppm	0.0003 ppm
Concentration per Run 1	0.0004 ppm	-0.0006 ppm	0.0004 ppm	0.0008 ppm	0.0002 ppm	-0.0119 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0009 ppm	0.0004 ppm	0.0008 ppm	0.0230 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0006 ppm	0.0012 ppm	-0.0408 ppm	0.0004 ppm
Recovery Percentage 1	4.777 %	-2.321 %	5.642 %	5.789 %	1.463 %	-0.396 %	5.885 %
Concentration RSD	58.8 %	58.9 %	49.8 %	35.2 %	73.6 %	322.4 %	162.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0021 ppm	0.0022 ppm	-0.0002 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 1	0.0017 ppm	0.0000 ppm	0.0028 ppm	0.0083 ppm	-0.0011 ppm	-0.0011 ppm	-0.0008 ppm
Concentration per Run 2	0.0004 ppm	0.0005 ppm	0.0022 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0030 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	0.0013 ppm	-0.0016 ppm	0.0004 ppm	0.0001 ppm	0.0037 ppm
Recovery Percentage 1	0.250 %	2.168 %	4.222 %	0.112 %	-0.614 %	-4.236 %	3.911 %
Concentration RSD	620.1 %	120.8 %	36.4 %	235.5 %	536.8 %	150.5 %	123.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	-0.0008 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0008 ppm	0.0024 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0025 ppm	0.0010 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-3.235 %	0.169 %	1.644 %	1.166 %	2.755 %	-0.554 %	0.026 %
Concentration RSD	578.6 %	186.9 %	100.7 %	36.9 %	83.4 %	487.7 %	2,175.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	102.5693 %	101.2080 %	103.4946 %	103.8600 %	101.1675 %	104.2893 %
Concentration per Run 1	0.0002 ppm	102.3574 %	102.0646 %	103.7472 %	103.9142 %	102.0050 %	104.7981 %
Concentration per Run 2	0.0001 ppm	102.4066 %	100.8104 %	103.4690 %	103.5480 %	100.6484 %	103.8253 %
Concentration per Run 3	0.0003 ppm	102.9439 %	100.7491 %	103.2675 %	104.1177 %	100.8491 %	104.2445 %
Recovery Percentage 1	3.816 %						
Concentration RSD	57.6 %	0.3 %	0.7 %	0.2 %	0.3 %	0.7 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: ICV
Analysis started at: 6/18/2024 12:53:15 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5072 ppm	0.4768 ppm	0.4744 ppm	0.4999 ppm	0.5021 ppm	0.5140 ppm	0.4873 ppm
Concentration per Run 1	0.5103 ppm	0.4771 ppm	0.4732 ppm	0.5031 ppm	0.5006 ppm	0.5115 ppm	0.4899 ppm
Concentration per Run 2	0.5050 ppm	0.4770 ppm	0.4538 ppm	0.4988 ppm	0.5061 ppm	0.5187 ppm	0.4880 ppm
Concentration per Run 3	0.5065 ppm	0.4763 ppm	0.4961 ppm	0.4979 ppm	0.4995 ppm	0.5119 ppm	0.4841 ppm
Recovery Percentage 1	101.449 %	95.360 %	94.874 %	99.986 %	100.410 %	102.804 %	97.466 %
Concentration RSD	0.5 %	0.1 %	4.5 %	0.6 %	0.7 %	0.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5029 ppm	0.5136 ppm	0.4941 ppm	0.4987 ppm	0.5100 ppm	5.1404 ppm	0.5037 ppm
Concentration per Run 1	0.5021 ppm	0.5112 ppm	0.4950 ppm	0.5009 ppm	0.5087 ppm	5.1668 ppm	0.5027 ppm
Concentration per Run 2	0.5054 ppm	0.5158 ppm	0.4942 ppm	0.4984 ppm	0.5149 ppm	5.2015 ppm	0.5086 ppm
Concentration per Run 3	0.5013 ppm	0.5139 ppm	0.4930 ppm	0.4968 ppm	0.5063 ppm	5.0528 ppm	0.5000 ppm
Recovery Percentage 1	100.587 %	102.725 %	98.810 %	99.742 %	101.991 %	102.807 %	100.748 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.4 %	0.9 %	1.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4908 ppm	0.4910 ppm	0.5015 ppm	9.9766 ppm	0.5123 ppm	0.4971 ppm	0.5089 ppm
Concentration per Run 1	0.4895 ppm	0.4906 ppm	0.4966 ppm	9.9377 ppm	0.5132 ppm	0.4934 ppm	0.5051 ppm
Concentration per Run 2	0.4888 ppm	0.4939 ppm	0.5024 ppm	10.0706 ppm	0.5143 ppm	0.4765 ppm	0.5124 ppm
Concentration per Run 3	0.4942 ppm	0.4884 ppm	0.5055 ppm	9.9217 ppm	0.5093 ppm	0.5213 ppm	0.5093 ppm
Recovery Percentage 1	98.167 %	98.197 %	100.300 %	99.766 %	102.453 %	99.417 %	101.782 %
Concentration RSD	0.6 %	0.6 %	0.9 %	0.8 %	0.5 %	4.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4934 ppm	5.6822 ppm	0.5277 ppm	0.5059 ppm	0.5034 ppm	0.5000 ppm	0.4928 ppm
Concentration per Run 1	0.4905 ppm	5.6930 ppm	0.5310 ppm	0.5034 ppm	0.5039 ppm	0.4991 ppm	0.4931 ppm
Concentration per Run 2	0.4698 ppm	5.6596 ppm	0.5275 ppm	0.5093 ppm	0.5034 ppm	0.4788 ppm	0.4946 ppm
Concentration per Run 3	0.5199 ppm	5.6939 ppm	0.5246 ppm	0.5050 ppm	0.5029 ppm	0.5221 ppm	0.4906 ppm
Recovery Percentage 1	98.684 %	108.232 %	105.544 %	101.181 %	100.680 %	100.003 %	98.551 %
Concentration RSD	5.1 %	0.3 %	0.6 %	0.6 %	0.1 %	4.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5088 ppm	103.1645 %	101.5520 %	101.8926 %	102.6111 %	100.7235 %	102.2567 %
Concentration per Run 1	0.5084 ppm	103.1564 %	100.9695 %	102.1159 %	102.5675 %	100.4345 %	102.7448 %
Concentration per Run 2	0.5106 ppm	102.3415 %	100.5221 %	105.2836 %	102.1745 %	99.4628 %	105.7338 %
Concentration per Run 3	0.5075 ppm	103.9957 %	103.1643 %	98.2783 %	103.0912 %	102.2732 %	98.2914 %
Recovery Percentage 1	101.766 %						
Concentration RSD	0.3 %	0.8 %	1.4 %	3.4 %	0.4 %	1.4 %	3.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: ICB
Analysis started at: 6/18/2024 12:56:43 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0002 ppm	-0.0008 ppm	0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0005 ppm	-0.0028 ppm	-0.0022 ppm	0.0010 ppm	0.0003 ppm	0.0003 ppm	0.0020 ppm
Concentration per Run 2	0.0005 ppm	0.0028 ppm	-0.0012 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm	-0.0030 ppm
Concentration per Run 3	0.0006 ppm	0.0007 ppm	0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0022 ppm
Recovery Percentage 1	7.588 %	0.229 %	-16.994 %	1.096 %	2.650 %	7.448 %	0.394 %
Concentration RSD	7.1 %	1,235.2 %	185.5 %	204.1 %	14.7 %	12.7 %	750.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0008 ppm	0.0026 ppm	-0.0057 ppm	-0.0006 ppm
Concentration per Run 1	0.0003 ppm	-0.0004 ppm	0.0009 ppm	0.0011 ppm	0.0033 ppm	-0.0049 ppm	-0.0012 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0031 ppm	-0.0152 ppm	0.0008 ppm
Concentration per Run 3	0.0003 ppm	-0.0006 ppm	0.0005 ppm	0.0007 ppm	0.0015 ppm	0.0029 ppm	-0.0014 ppm
Recovery Percentage 1	4.280 %	-1.848 %	5.390 %	7.579 %	5.239 %	-0.229 %	-12.012 %
Concentration RSD	48.7 %	69.4 %	57.0 %	38.8 %	36.7 %	159.0 %	202.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0003 ppm	0.0016 ppm	0.0025 ppm	0.0000 ppm	0.0012 ppm	-0.0012 ppm
Concentration per Run 1	-0.0009 ppm	0.0003 ppm	0.0017 ppm	0.0025 ppm	0.0002 ppm	0.0010 ppm	-0.0026 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0019 ppm	0.0036 ppm	-0.0009 ppm	0.0011 ppm	0.0020 ppm
Concentration per Run 3	-0.0026 ppm	0.0003 ppm	0.0012 ppm	0.0014 ppm	0.0005 ppm	0.0015 ppm	-0.0030 ppm
Recovery Percentage 1	-1.221 %	2.701 %	3.174 %	0.125 %	-0.151 %	11.740 %	-2.478 %
Concentration RSD	102.2 %	20.8 %	22.3 %	44.6 %	1,969.8 %	22.6 %	223.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	0.0007 ppm	0.0008 ppm	0.0002 ppm	0.0006 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	-0.0010 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0009 ppm	0.0011 ppm	0.0016 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-2.017 %	0.110 %	1.666 %	2.846 %	2.873 %	0.085 %	1.372 %
Concentration RSD	648.5 %	112.3 %	93.5 %	23.5 %	116.9 %	4,043.9 %	116.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	103.2770 %	101.3304 %	103.8988 %	104.7683 %	101.3578 %	104.7604 %
Concentration per Run 1	0.0003 ppm	104.0467 %	101.5451 %	102.7415 %	105.6262 %	102.2317 %	103.5202 %
Concentration per Run 2	0.0002 ppm	102.4387 %	100.3244 %	103.7623 %	103.9562 %	100.1198 %	104.5263 %
Concentration per Run 3	0.0004 ppm	103.3456 %	102.1217 %	105.1927 %	104.7224 %	101.7219 %	106.2348 %
Recovery Percentage 1	6.060 %						
Concentration RSD	25.5 %	0.8 %	0.9 %	1.2 %	0.8 %	1.1 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LLOQ
Analysis started at: 6/18/2024 1:00:11 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0074 ppm	0.0954 ppm	0.0045 ppm	0.0287 ppm	0.0100 ppm	0.0049 ppm	0.0954 ppm
Concentration per Run 1	0.0070 ppm	0.0943 ppm	0.0047 ppm	0.0272 ppm	0.0101 ppm	0.0049 ppm	0.0933 ppm
Concentration per Run 2	0.0076 ppm	0.0941 ppm	0.0053 ppm	0.0290 ppm	0.0100 ppm	0.0049 ppm	0.0976 ppm
Concentration per Run 3	0.0077 ppm	0.0978 ppm	0.0035 ppm	0.0299 ppm	0.0100 ppm	0.0048 ppm	0.0952 ppm
Recovery Percentage 1	106.414 %	95.403 %	90.486 %	95.644 %	100.391 %	97.374 %	95.364 %
Concentration RSD	5.6 %	2.2 %	20.3 %	4.9 %	0.8 %	0.5 %	2.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0196 ppm	0.0098 ppm	0.0113 ppm	0.0499 ppm	2.5600 ppm	0.0100 ppm
Concentration per Run 1	0.0039 ppm	0.0194 ppm	0.0097 ppm	0.0111 ppm	0.0499 ppm	2.5944 ppm	0.0096 ppm
Concentration per Run 2	0.0040 ppm	0.0200 ppm	0.0096 ppm	0.0110 ppm	0.0496 ppm	2.5492 ppm	0.0109 ppm
Concentration per Run 3	0.0040 ppm	0.0195 ppm	0.0101 ppm	0.0116 ppm	0.0501 ppm	2.5364 ppm	0.0095 ppm
Recovery Percentage 1	99.674 %	98.162 %	98.295 %	112.638 %	99.732 %	102.400 %	
Concentration RSD	1.2 %	1.5 %	2.7 %	2.7 %	0.5 %	1.2 %	7.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0988 ppm	0.0102 ppm	0.0506 ppm	2.0197 ppm	0.0249 ppm	0.0099 ppm	0.0510 ppm
Concentration per Run 1	0.0981 ppm	0.0103 ppm	0.0505 ppm	2.0188 ppm	0.0253 ppm	0.0117 ppm	0.0502 ppm
Concentration per Run 2	0.0996 ppm	0.0099 ppm	0.0510 ppm	2.0191 ppm	0.0253 ppm	0.0086 ppm	0.0505 ppm
Concentration per Run 3	0.0988 ppm	0.0103 ppm	0.0502 ppm	2.0213 ppm	0.0242 ppm	0.0094 ppm	0.0523 ppm
Recovery Percentage 1	98.818 %	101.624 %	101.124 %	100.987 %	99.680 %	99.099 %	102.005 %
Concentration RSD	0.7 %	2.0 %	0.9 %	0.1 %	2.4 %	15.8 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0098 ppm	0.5252 ppm	0.0512 ppm	0.0096 ppm	0.0490 ppm	0.0193 ppm	0.0098 ppm
Concentration per Run 1	0.0106 ppm	0.5196 ppm	0.0502 ppm	0.0096 ppm	0.0485 ppm	0.0194 ppm	0.0097 ppm
Concentration per Run 2	0.0103 ppm	0.5280 ppm	0.0521 ppm	0.0096 ppm	0.0494 ppm	0.0177 ppm	0.0097 ppm
Concentration per Run 3	0.0084 ppm	0.5279 ppm	0.0513 ppm	0.0095 ppm	0.0490 ppm	0.0208 ppm	0.0099 ppm
Recovery Percentage 1	97.603 %	105.030 %	102.381 %	95.867 %	97.970 %	96.279 %	97.626 %
Concentration RSD	12.0 %	0.9 %	1.8 %	0.4 %	0.9 %	8.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	104.4888 %	103.4588 %	104.1643 %	104.6259 %	102.5919 %	104.2564 %
Concentration per Run 1	0.0050 ppm	104.5601 %	102.1338 %	103.1209 %	104.8694 %	101.9861 %	103.4059 %
Concentration per Run 2	0.0053 ppm	103.7242 %	105.0054 %	104.1381 %	103.6304 %	103.6318 %	104.3501 %
Concentration per Run 3	0.0050 ppm	105.1821 %	103.2371 %	105.2340 %	105.3779 %	102.1578 %	105.0132 %
Recovery Percentage 1	101.889 %						
Concentration RSD	3.6 %	0.7 %	1.4 %	1.0 %	0.9 %	0.9 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR (ICSA)
Analysis started at: 6/18/2024 1:03:41 PM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	513.5951 ppm	-0.0017 ppm	-0.0106 ppm	0.0020 ppm	0.0001 ppm	471.8351 ppm
Concentration per Run 1	0.0001 ppm	514.8340 ppm	-0.0005 ppm	-0.0099 ppm	0.0022 ppm	0.0001 ppm	472.0414 ppm
Concentration per Run 2	0.0004 ppm	510.6125 ppm	-0.0008 ppm	-0.0102 ppm	0.0019 ppm	0.0000 ppm	469.2764 ppm
Concentration per Run 3	0.0004 ppm	515.3388 ppm	-0.0037 ppm	-0.0117 ppm	0.0020 ppm	0.0001 ppm	474.1876 ppm
Recovery Percentage 1	4.585 %		-33.157 %	-35.215 %	20.274 %	1.671 %	
Concentration RSD	54.6 %	0.5 %	109.0 %	9.2 %	6.9 %	44.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0069 ppm	-0.0016 ppm	0.0029 ppm	0.0029 ppm	189.2381 ppm	-0.0304 ppm	-0.0043 ppm
Concentration per Run 1	-0.0072 ppm	-0.0019 ppm	0.0030 ppm	0.0029 ppm	189.4108 ppm	-0.0288 ppm	-0.0045 ppm
Concentration per Run 2	-0.0070 ppm	-0.0015 ppm	0.0037 ppm	0.0033 ppm	188.3671 ppm	-0.0203 ppm	-0.0038 ppm
Concentration per Run 3	-0.0066 ppm	-0.0014 ppm	0.0021 ppm	0.0027 ppm	189.9365 ppm	-0.0419 ppm	-0.0045 ppm
Recovery Percentage 1	-138.341 %	-7.939 %	29.483 %	29.499 %		-1.214 %	-85.240 %
Concentration RSD	4.4 %	15.2 %	26.3 %	11.2 %	0.4 %	36.0 %	10.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	478.2708 ppm	-0.0005 ppm	-0.0020 ppm	0.0101 ppm	-0.0002 ppm	0.0043 ppm	-0.0085 ppm
Concentration per Run 1	477.4473 ppm	-0.0006 ppm	-0.0027 ppm	0.0003 ppm	-0.0008 ppm	0.0020 ppm	-0.0113 ppm
Concentration per Run 2	476.0698 ppm	-0.0002 ppm	-0.0022 ppm	0.0124 ppm	-0.0001 ppm	0.0043 ppm	-0.0052 ppm
Concentration per Run 3	481.2952 ppm	-0.0006 ppm	-0.0012 ppm	0.0175 ppm	0.0004 ppm	0.0065 ppm	-0.0091 ppm
Recovery Percentage 1		-4.892 %	-4.062 %	0.503 %	-0.794 %	42.704 %	-17.052 %
Concentration RSD	0.6 %	44.2 %	37.1 %	87.7 %	295.2 %	53.3 %	36.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0101 ppm	0.0252 ppm	0.0000 ppm	0.0003 ppm	0.0030 ppm	0.0017 ppm	0.0017 ppm
Concentration per Run 1	-0.0163 ppm	0.0236 ppm	0.0002 ppm	0.0002 ppm	0.0030 ppm	0.0023 ppm	0.0014 ppm
Concentration per Run 2	-0.0038 ppm	0.0275 ppm	0.0002 ppm	0.0003 ppm	0.0032 ppm	0.0011 ppm	0.0018 ppm
Concentration per Run 3	-0.0100 ppm	0.0245 ppm	-0.0005 ppm	0.0003 ppm	0.0027 ppm	0.0018 ppm	0.0019 ppm
Recovery Percentage 1	-100.652 %	5.042 %	-0.050 %	2.836 %	29.777 %	8.527 %	17.012 %
Concentration RSD	62.3 %	7.9 %	1,755.5 %	14.8 %	7.3 %	35.3 %	13.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0009 ppm	88.9699 %	96.3668 %	74.2446 %	87.7673 %	96.5348 %	86.8714 %
Concentration per Run 1	-0.0007 ppm	89.4169 %	96.8014 %	73.5717 %	88.3471 %	97.4607 %	85.8998 %
Concentration per Run 2	-0.0009 ppm	89.1853 %	96.5924 %	74.3356 %	88.1400 %	96.3338 %	87.0739 %
Concentration per Run 3	-0.0012 ppm	88.3077 %	95.7065 %	74.8267 %	86.8148 %	95.8099 %	87.6403 %
Recovery Percentage 1	-18.518 %						
Concentration RSD	31.8 %	0.7 %	0.6 %	0.9 %	0.9 %	0.9 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: xSIC Multi (ICSA Contamination)
Analysis started at: 6/18/2024 1:24:07 PM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	**0.1411 ppm**	-0.0001 ppm	0.0025 ppm	0.0001 ppm	0.0000 ppm	**0.1297 ppm**
Concentration per Run 1	-0.0005 ppm	0.1404 ppm	0.0005 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.1351 ppm
Concentration per Run 2	0.0000 ppm	0.1431 ppm	-0.0017 ppm	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.1255 ppm
Concentration per Run 3	-0.0004 ppm	0.1399 ppm	0.0008 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.1284 ppm
Recovery Percentage 1	-3.806 %	141.139 %	-2.888 %	8.200 %	1.034 %	-0.414 %	129.673 %
Concentration RSD	93.2 %	**1.2 %**	965.9 %	35.9 %	23.1 %	263.1 %	**3.8 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0036 ppm	**19.9199 ppm**	-0.0014 ppm	**0.0580 ppm**	-0.0151 ppm	-0.0008 ppm
Concentration per Run 1	-0.0002 ppm	-0.0043 ppm	20.0009 ppm	-0.0013 ppm	0.0588 ppm	-0.0307 ppm	-0.0008 ppm
Concentration per Run 2	-0.0003 ppm	-0.0039 ppm	19.9275 ppm	-0.0015 ppm	0.0555 ppm	0.0008 ppm	-0.0014 ppm
Concentration per Run 3	-0.0004 ppm	-0.0026 ppm	19.8312 ppm	-0.0013 ppm	0.0596 ppm	-0.0153 ppm	-0.0003 ppm
Recovery Percentage 1	-6.289 %	-17.964 %	199,198.661 %	-13.873 %	115.958 %	-0.603 %	-16.405 %
Concentration RSD	19.8 %	24.2 %	**0.4 %**	9.8 %	**3.8 %**	104.6 %	61.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	**0.1183 ppm**	**19.7143 ppm**	-0.0024 ppm	0.0029 ppm	-0.0001 ppm	-0.0007 ppm	-0.0060 ppm
Concentration per Run 1	0.1196 ppm	19.6284 ppm	-0.0024 ppm	0.0024 ppm	0.0007 ppm	-0.0017 ppm	-0.0064 ppm
Concentration per Run 2	0.1190 ppm	19.7126 ppm	-0.0019 ppm	-0.0004 ppm	-0.0002 ppm	0.0002 ppm	-0.0052 ppm
Concentration per Run 3	0.1163 ppm	19.8020 ppm	-0.0028 ppm	0.0068 ppm	-0.0009 ppm	-0.0005 ppm	-0.0065 ppm
Recovery Percentage 1	118.318 %	197,143.200 %	-4.705 %	0.146 %	-0.517 %	-6.536 %	-12.018 %
Concentration RSD	**1.5 %**	**0.4 %**	18.8 %	124.8 %	632.4 %	145.6 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0096 ppm	0.2221 ppm	0.0015 ppm	0.0004 ppm	**19.4701 ppm**	-0.0020 ppm	**10.0130 ppm**
Concentration per Run 1	-0.0087 ppm	0.2039 ppm	0.0022 ppm	0.0004 ppm	19.5686 ppm	-0.0018 ppm	10.0419 ppm
Concentration per Run 2	-0.0102 ppm	0.2331 ppm	0.0007 ppm	0.0005 ppm	19.4506 ppm	-0.0021 ppm	9.9987 ppm
Concentration per Run 3	-0.0100 ppm	0.2293 ppm	0.0016 ppm	0.0004 ppm	19.3911 ppm	-0.0020 ppm	9.9982 ppm
Recovery Percentage 1	-96.401 %	44.423 %	3.019 %	4.053 %	194,701.033 %	-9.859 %	100,129.505 %
Concentration RSD	8.4 %	7.1 %	50.5 %	16.8 %	**0.5 %**	9.8 %	**0.3 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	104.4592 %	103.2199 %	108.9328 %	104.1961 %	102.4308 %	102.7566 %
Concentration per Run 1	-0.0008 ppm	104.0246 %	102.9984 %	108.4744 %	103.5238 %	101.8697 %	102.1750 %
Concentration per Run 2	-0.0003 ppm	104.6390 %	103.1903 %	109.6861 %	104.4460 %	102.4984 %	103.8695 %
Concentration per Run 3	-0.0006 ppm	104.7140 %	103.4709 %	108.6379 %	104.6183 %	102.9244 %	102.2253 %
Recovery Percentage 1	-10.998 %						
Concentration RSD	47.6 %	0.4 %	0.2 %	0.6 %	0.6 %	0.5 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR Check
Analysis started at: 6/18/2024 1:27:43 PM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	0.1337 ppm	23.3777 ppm	19.7798 ppm	19.8469 ppm	5.0725 ppm	0.0283 ppm
Concentration per Run 1	0.0008 ppm	0.1376 ppm	23.1915 ppm	19.7604 ppm	19.9795 ppm	5.1046 ppm	0.0263 ppm
Concentration per Run 2	0.0012 ppm	0.1399 ppm	23.5066 ppm	19.8999 ppm	19.8018 ppm	5.0673 ppm	0.0262 ppm
Concentration per Run 3	0.0014 ppm	0.1236 ppm	23.4349 ppm	19.6791 ppm	19.7595 ppm	5.0457 ppm	0.0325 ppm
Recovery Percentage 1			116.888 %	98.899 %	99.235 %		
Concentration RSD	27.7 %	6.6 %	0.7 %	0.6 %	0.6 %	0.6 %	12.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.0852 ppm	5.1241 ppm	0.0100 ppm	19.1844 ppm	0.0367 ppm	527.8808 ppm	18.9647 ppm
Concentration per Run 1	5.1212 ppm	5.1418 ppm	0.0105 ppm	19.1946 ppm	0.0371 ppm	529.4400 ppm	19.0241 ppm
Concentration per Run 2	5.0915 ppm	5.1365 ppm	0.0096 ppm	19.3043 ppm	0.0354 ppm	528.6446 ppm	18.9586 ppm
Concentration per Run 3	5.0430 ppm	5.0941 ppm	0.0098 ppm	19.0543 ppm	0.0376 ppm	525.5578 ppm	18.9115 ppm
Recovery Percentage 1	101.704 %	102.483 %		95.922 %		105.576 %	
Concentration RSD	0.8 %	0.5 %	5.3 %	0.7 %	3.2 %	0.4 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0032 ppm	0.0094 ppm	5.1645 ppm	434.2235 ppm	10.0517 ppm	53.0501 ppm	5.1127 ppm
Concentration per Run 1	-0.0035 ppm	0.0094 ppm	5.0529 ppm	434.8884 ppm	10.0745 ppm	52.6368 ppm	5.0822 ppm
Concentration per Run 2	-0.0036 ppm	0.0094 ppm	5.1954 ppm	434.1579 ppm	10.1081 ppm	53.2501 ppm	5.1556 ppm
Concentration per Run 3	-0.0023 ppm	0.0093 ppm	5.2454 ppm	433.6243 ppm	9.9725 ppm	53.2636 ppm	5.1002 ppm
Recovery Percentage 1		0.000 %	103.291 %	86.845 %	100.517 %	106.100 %	102.254 %
Concentration RSD	23.5 %	0.7 %	1.9 %	0.1 %	0.7 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.3948 ppm	22.0121 ppm	7.9169 ppm	4.9362 ppm	0.0247 ppm	4.8050 ppm	0.0015 ppm
Concentration per Run 1	5.3511 ppm	22.0138 ppm	7.9346 ppm	4.9657 ppm	0.0264 ppm	4.7654 ppm	0.0014 ppm
Concentration per Run 2	5.4202 ppm	22.0276 ppm	7.9544 ppm	4.9255 ppm	0.0249 ppm	4.8294 ppm	0.0016 ppm
Concentration per Run 3	5.4132 ppm	21.9949 ppm	7.8619 ppm	4.9172 ppm	0.0229 ppm	4.8201 ppm	0.0017 ppm
Recovery Percentage 1	107.897 %	110.060 %	79.169 %	98.723 %	0.000 %	96.099 %	0.000 %
Concentration RSD	0.7 %	0.1 %	0.6 %	0.5 %	7.1 %	0.7 %	9.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	20.5142 ppm	92.1797 %	99.0830 %	82.6927 %	90.8859 %	97.9270 %	89.9092 %
Concentration per Run 1	20.5784 ppm	91.8931 %	98.9806 %	83.1320 %	90.6581 %	97.7458 %	90.2531 %
Concentration per Run 2	20.6001 ppm	91.7010 %	98.0660 %	82.7033 %	90.0445 %	96.7157 %	89.9933 %
Concentration per Run 3	20.3640 ppm	92.9449 %	100.2024 %	82.2427 %	91.9551 %	99.3194 %	89.4813 %
Recovery Percentage 1	102.571 %						
Concentration RSD	0.6 %	0.7 %	1.1 %	0.5 %	1.1 %	1.3 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: xSIC Multi (ICSA Contamination)
Analysis started at: 6/18/2024 1:51:19 PM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	**0.1362 ppm**	0.0020 ppm	0.0050 ppm	0.0000 ppm	-0.0001 ppm	**0.1290 ppm**
Concentration per Run 1	-0.0003 ppm	0.1397 ppm	0.0010 ppm	0.0049 ppm	-0.0002 ppm	0.0000 ppm	0.1271 ppm
Concentration per Run 2	-0.0003 ppm	0.1380 ppm	0.0028 ppm	0.0059 ppm	0.0002 ppm	-0.0001 ppm	0.1333 ppm
Concentration per Run 3	0.0001 ppm	0.1308 ppm	0.0021 ppm	0.0041 ppm	0.0000 ppm	-0.0003 ppm	0.1267 ppm
Recovery Percentage 1	-1.910 %	136.159 %	39.543 %	16.588 %	-0.128 %	-3.572 %	129.009 %
Concentration RSD	180.0 %	**3.4 %**	46.8 %	18.4 %	1,530.6 %	99.3 %	**2.9 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0033 ppm	**20.0292 ppm**	-0.0018 ppm	**0.0562 ppm**	0.0083 ppm	-0.0005 ppm
Concentration per Run 1	-0.0004 ppm	-0.0033 ppm	19.9540 ppm	-0.0016 ppm	0.0564 ppm	-0.0093 ppm	-0.0004 ppm
Concentration per Run 2	-0.0005 ppm	-0.0033 ppm	19.9512 ppm	-0.0017 ppm	0.0570 ppm	0.0234 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0034 ppm	20.1826 ppm	-0.0021 ppm	0.0551 ppm	0.0107 ppm	-0.0009 ppm
Recovery Percentage 1	-7.637 %	-16.652 %	200,292.437 %	-17.898 %	112.360 %	0.331 %	-9.991 %
Concentration RSD	18.3 %	1.3 %	**0.7 %**	13.2 %	**1.8 %**	199.1 %	78.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	**0.1176 ppm**	**19.9935 ppm**	-0.0020 ppm	0.0049 ppm	0.0001 ppm	-0.0012 ppm	-0.0032 ppm
Concentration per Run 1	0.1204 ppm	19.9121 ppm	-0.0022 ppm	0.0045 ppm	0.0006 ppm	-0.0020 ppm	-0.0037 ppm
Concentration per Run 2	0.1155 ppm	20.1710 ppm	-0.0020 ppm	0.0037 ppm	-0.0002 ppm	-0.0001 ppm	-0.0036 ppm
Concentration per Run 3	0.1168 ppm	19.8974 ppm	-0.0020 ppm	0.0065 ppm	0.0001 ppm	-0.0015 ppm	-0.0024 ppm
Recovery Percentage 1	117.576 %	199,935.270 %	-4.092 %	0.246 %	0.593 %	-12.057 %	-6.469 %
Concentration RSD	**2.2 %**	**0.8 %**	7.2 %	29.6 %	257.5 %	82.0 %	22.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0118 ppm	**0.2727 ppm**	0.0032 ppm	0.0004 ppm	**19.5235 ppm**	-0.0084 ppm	**10.0519 ppm**
Concentration per Run 1	-0.0159 ppm	0.2703 ppm	0.0033 ppm	0.0004 ppm	19.4178 ppm	-0.0074 ppm	10.0143 ppm
Concentration per Run 2	-0.0082 ppm	0.2764 ppm	0.0025 ppm	0.0003 ppm	19.4693 ppm	-0.0086 ppm	10.0211 ppm
Concentration per Run 3	-0.0112 ppm	0.2713 ppm	0.0037 ppm	0.0004 ppm	19.6835 ppm	-0.0093 ppm	10.1202 ppm
Recovery Percentage 1	-117.962 %	54.534 %	6.319 %	3.780 %	195,235.264 %	-42.131 %	100,518.804 %
Concentration RSD	33.0 %	**1.2 %**	19.1 %	11.3 %	**0.7 %**	11.0 %	**0.6 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	102.2539 %	102.6097 %	107.7418 %	101.6960 %	102.1364 %	101.7555 %
Concentration per Run 1	-0.0004 ppm	103.1465 %	103.4678 %	108.2760 %	102.6463 %	103.2742 %	101.8573 %
Concentration per Run 2	-0.0003 ppm	101.9795 %	101.0534 %	107.5126 %	101.5260 %	100.6061 %	101.8044 %
Concentration per Run 3	-0.0005 ppm	101.6358 %	103.3078 %	107.4366 %	100.9157 %	102.5290 %	101.6046 %
Recovery Percentage 1	-8.528 %						
Concentration RSD	25.0 %	0.8 %	1.3 %	0.4 %	0.9 %	1.3 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR 20 As
Analysis started at: 6/18/2024 2:04:12 PM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0034 ppm	19.7804 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	19.9315 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 2	0.0005 ppm	-0.0073 ppm	19.7169 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0023 ppm	19.6928 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration RSD	143.1 %	106.7 %	0.7 %	212.2 %	156.5 %	119.4 %	128.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0010 ppm	0.0022 ppm	-0.0007 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0005 ppm	0.0048 ppm	-0.0015 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0019 ppm	-0.0167 ppm	-0.0005 ppm
Concentration per Run 3	-0.0005 ppm	-0.0007 ppm	0.0002 ppm	0.0012 ppm	0.0016 ppm	0.0183 ppm	0.0000 ppm
Concentration RSD	13.3 %	234.2 %	25.6 %	45.5 %	127.5 %	819.3 %	113.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0001 ppm	-0.0010 ppm	0.0054 ppm	-0.0005 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0023 ppm	0.0000 ppm	-0.0002 ppm	0.0076 ppm	-0.0005 ppm	-0.0006 ppm	-0.0033 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	-0.0017 ppm	0.0085 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	0.0014 ppm	0.0003 ppm	-0.0010 ppm	0.0000 ppm	-0.0011 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	81.7 %	202.1 %	80.3 %	87.6 %	103.6 %	533.3 %	202.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0042 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0028 ppm	0.0044 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0013 ppm	0.0045 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0019 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	0.0036 ppm	-0.0007 ppm	0.0000 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	1,553.5 %	11.7 %	159.5 %	151.3 %	48.0 %	265.9 %	300.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	103.7844 %	101.4459 %	102.2610 %	103.9254 %	101.3318 %	102.4149 %
Concentration per Run 1	0.0005 ppm	103.9695 %	101.8318 %	101.6938 %	104.3144 %	101.8598 %	101.8481 %
Concentration per Run 2	0.0004 ppm	102.9677 %	100.8426 %	102.8026 %	103.0004 %	100.7182 %	103.1145 %
Concentration per Run 3	0.0002 ppm	104.4159 %	101.6632 %	102.2866 %	104.4612 %	101.4173 %	102.2822 %
Concentration RSD	42.2 %	0.7 %	0.5 %	0.5 %	0.8 %	0.6 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR 500 Na
Analysis started at: 6/18/2024 2:07:46 PM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0022 ppm	0.0018 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 1	0.0004 ppm	-0.0040 ppm	0.0030 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 2	0.0001 ppm	-0.0009 ppm	0.0014 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 3	0.0000 ppm	-0.0015 ppm	0.0011 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0103 ppm
Concentration RSD	142.6 %	76.7 %	57.5 %	368.5 %	8,296.8 %	459.4 %	20.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0020 ppm	0.1180 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0028 ppm	0.1027 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0026 ppm	0.0976 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0007 ppm	0.1536 ppm	0.0018 ppm
Concentration RSD	108.0 %	75.6 %	69.3 %	46.8 %	55.8 %	26.2 %	141.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0002 ppm	-0.0011 ppm	486.5703 ppm	-0.0001 ppm	-0.0001 ppm	-0.0023 ppm
Concentration per Run 1	-0.0003 ppm	0.0001 ppm	-0.0011 ppm	484.9457 ppm	0.0005 ppm	-0.0010 ppm	-0.0030 ppm
Concentration per Run 2	-0.0010 ppm	0.0001 ppm	-0.0013 ppm	490.7155 ppm	-0.0014 ppm	0.0006 ppm	-0.0042 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	-0.0008 ppm	484.0497 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	176.8 %	33.4 %	22.6 %	0.7 %	918.3 %	1,059.4 %	100.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	0.0036 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0027 ppm	0.0042 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0019 ppm	0.0031 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0066 ppm	0.0034 ppm	-0.0008 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration RSD	169.8 %	16.0 %	201.5 %	1,415.5 %	417.3 %	95.0 %	105.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.2835 %	97.4761 %	87.2585 %	92.1387 %	96.9869 %	95.4587 %
Concentration per Run 1	0.0006 ppm	92.6786 %	98.4918 %	86.9735 %	91.6435 %	97.9575 %	95.0267 %
Concentration per Run 2	0.0008 ppm	93.7414 %	96.4342 %	87.4628 %	92.7519 %	95.9462 %	95.6885 %
Concentration per Run 3	0.0008 ppm	93.4304 %	97.5024 %	87.3391 %	92.0208 %	97.0571 %	95.6610 %
Concentration RSD	14.9 %	0.6 %	1.1 %	0.3 %	0.6 %	1.0 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR (SIC Multi)
Analysis started at: 6/18/2024 2:11:37 PM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0035 ppm	0.0000 ppm	-0.0001 ppm	-0.0027 ppm
Concentration per Run 1	-0.0002 ppm	0.0024 ppm	0.0010 ppm	0.0034 ppm	-0.0001 ppm	0.0003 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0062 ppm	0.0011 ppm	0.0038 ppm	0.0001 ppm	-0.0005 ppm	-0.0033 ppm
Concentration per Run 3	-0.0004 ppm	0.0060 ppm	-0.0003 ppm	0.0035 ppm	0.0001 ppm	-0.0001 ppm	-0.0021 ppm
Recovery Percentage 1	-2.883 %	0.729 %	12.850 %	11.797 %	0.272 %	-1.877 %	-2.693 %
Concentration RSD	103.4 %	856.0 %	123.4 %	6.1 %	447.8 %	505.9 %	22.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0041 ppm	**19.7788 ppm**	-0.0012 ppm	-0.0003 ppm	0.0037 ppm	-0.0003 ppm
Concentration per Run 1	-0.0003 ppm	-0.0040 ppm	19.7728 ppm	-0.0016 ppm	0.0009 ppm	-0.0022 ppm	-0.0018 ppm
Concentration per Run 2	-0.0005 ppm	-0.0049 ppm	19.9017 ppm	-0.0012 ppm	0.0003 ppm	0.0103 ppm	0.0006 ppm
Concentration per Run 3	-0.0004 ppm	-0.0035 ppm	19.6621 ppm	-0.0010 ppm	-0.0023 ppm	0.0029 ppm	0.0003 ppm
Recovery Percentage 1	-8.369 %	-20.682 %	197,788.459 %	-12.442 %	-0.687 %	0.147 %	-5.931 %
Concentration RSD	30.9 %	16.7 %	**0.6 %**	24.3 %	490.8 %	171.2 %	434.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0190 ppm	**19.5498 ppm**	-0.0027 ppm	0.0176 ppm	-0.0002 ppm	-0.0013 ppm	-0.0123 ppm
Concentration per Run 1	-0.0188 ppm	19.5276 ppm	-0.0027 ppm	0.0099 ppm	-0.0003 ppm	-0.0019 ppm	-0.0127 ppm
Concentration per Run 2	-0.0208 ppm	19.4747 ppm	-0.0028 ppm	0.0229 ppm	-0.0001 ppm	-0.0011 ppm	-0.0185 ppm
Concentration per Run 3	-0.0174 ppm	19.6472 ppm	-0.0026 ppm	0.0199 ppm	-0.0003 ppm	-0.0010 ppm	-0.0057 ppm
Recovery Percentage 1	-19.003 %	195,498.356 %	-5.384 %	0.878 %	-0.854 %	-13.092 %	-24.628 %
Concentration RSD	9.1 %	**0.5 %**	2.4 %	38.7 %	53.3 %	37.4 %	52.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0091 ppm	0.1896 ppm	0.0020 ppm	0.0004 ppm	**19.2938 ppm**	-0.0026 ppm	**9.9019 ppm**
Concentration per Run 1	-0.0091 ppm	0.1634 ppm	0.0024 ppm	0.0004 ppm	19.3024 ppm	-0.0051 ppm	9.8939 ppm
Concentration per Run 2	-0.0090 ppm	0.1925 ppm	0.0019 ppm	0.0003 ppm	19.4005 ppm	-0.0004 ppm	9.9394 ppm
Concentration per Run 3	-0.0094 ppm	0.2130 ppm	0.0016 ppm	0.0004 ppm	19.1785 ppm	-0.0022 ppm	9.8724 ppm
Recovery Percentage 1	-91.428 %	37.928 %	3.939 %	3.613 %	192,937.806 %	-12.863 %	99,019.047 %
Concentration RSD	2.3 %	13.1 %	19.9 %	10.8 %	**0.6 %**	91.3 %	**0.3 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	103.3593 %	102.8887 %	109.6274 %	102.6982 %	102.1116 %	103.8413 %
Concentration per Run 1	-0.0007 ppm	102.7691 %	103.6295 %	109.0313 %	102.1453 %	103.1678 %	103.5281 %
Concentration per Run 2	-0.0006 ppm	103.6383 %	101.7285 %	109.5826 %	102.7729 %	100.8647 %	103.6882 %
Concentration per Run 3	-0.0004 ppm	103.6704 %	103.3081 %	110.2683 %	103.1762 %	102.3024 %	104.3078 %
Recovery Percentage 1	-11.066 %						
Concentration RSD	29.9 %	0.5 %	1.0 %	0.6 %	0.5 %	1.1 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 2:21:32 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4942 ppm	0.4639 ppm	0.4661 ppm	0.4909 ppm	0.4840 ppm	0.4969 ppm	0.4751 ppm
Concentration per Run 1	0.4979 ppm	0.4733 ppm	0.4657 ppm	0.4938 ppm	0.4852 ppm	0.4984 ppm	0.4766 ppm
Concentration per Run 2	0.4925 ppm	0.4604 ppm	0.4701 ppm	0.4889 ppm	0.4832 ppm	0.4978 ppm	0.4739 ppm
Concentration per Run 3	0.4923 ppm	0.4580 ppm	0.4625 ppm	0.4900 ppm	0.4837 ppm	0.4944 ppm	0.4747 ppm
Recovery Percentage 1	98.850 %	92.782 %	93.225 %	98.178 %	96.802 %	99.379 %	95.013 %
Concentration RSD	0.6 %	1.8 %	0.8 %	0.5 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4902 ppm	0.5048 ppm	0.4848 ppm	0.4891 ppm	0.4914 ppm	4.9682 ppm	0.4882 ppm
Concentration per Run 1	0.4944 ppm	0.5087 ppm	0.4890 ppm	0.4922 ppm	0.4906 ppm	4.9640 ppm	0.4885 ppm
Concentration per Run 2	0.4843 ppm	0.5012 ppm	0.4847 ppm	0.4848 ppm	0.4875 ppm	4.9756 ppm	0.4883 ppm
Concentration per Run 3	0.4921 ppm	0.5044 ppm	0.4807 ppm	0.4903 ppm	0.4962 ppm	4.9650 ppm	0.4877 ppm
Recovery Percentage 1	98.049 %	100.954 %	96.961 %	97.823 %	98.285 %	99.363 %	97.630 %
Concentration RSD	1.1 %	0.7 %	0.9 %	0.8 %	0.9 %	0.1 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4807 ppm	0.4773 ppm	0.4940 ppm	9.6600 ppm	0.5001 ppm	0.4933 ppm	0.4956 ppm
Concentration per Run 1	0.4853 ppm	0.4781 ppm	0.4936 ppm	9.6564 ppm	0.5040 ppm	0.4925 ppm	0.4947 ppm
Concentration per Run 2	0.4770 ppm	0.4767 ppm	0.4902 ppm	9.6361 ppm	0.4972 ppm	0.4970 ppm	0.4955 ppm
Concentration per Run 3	0.4798 ppm	0.4771 ppm	0.4981 ppm	9.6876 ppm	0.4992 ppm	0.4903 ppm	0.4967 ppm
Recovery Percentage 1	96.140 %	95.463 %	98.798 %	96.600 %	100.025 %	98.652 %	99.129 %
Concentration RSD	0.9 %	0.1 %	0.8 %	0.3 %	0.7 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4785 ppm	5.5186 ppm	0.5166 ppm	0.4902 ppm	0.4936 ppm	0.4922 ppm	0.4813 ppm
Concentration per Run 1	0.4772 ppm	5.5528 ppm	0.5204 ppm	0.4919 ppm	0.4973 ppm	0.4927 ppm	0.4844 ppm
Concentration per Run 2	0.4835 ppm	5.4719 ppm	0.5163 ppm	0.4884 ppm	0.4925 ppm	0.4943 ppm	0.4779 ppm
Concentration per Run 3	0.4748 ppm	5.5312 ppm	0.5131 ppm	0.4904 ppm	0.4909 ppm	0.4897 ppm	0.4816 ppm
Recovery Percentage 1	95.701 %	105.117 %	103.326 %	98.050 %	98.715 %	98.448 %	96.268 %
Concentration RSD	0.9 %	0.8 %	0.7 %	0.4 %	0.7 %	0.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4998 ppm	104.5024 %	104.3836 %	102.6704 %	104.0887 %	103.7113 %	103.4634 %
Concentration per Run 1	0.5028 ppm	104.2044 %	104.4213 %	102.2993 %	103.9756 %	103.7762 %	103.1858 %
Concentration per Run 2	0.4999 ppm	104.9762 %	104.4772 %	102.5268 %	104.1604 %	103.5063 %	102.9776 %
Concentration per Run 3	0.4968 ppm	104.3265 %	104.2522 %	103.1851 %	104.1301 %	103.8514 %	104.2267 %
Recovery Percentage 1	99.966 %						
Concentration RSD	0.6 %	0.4 %	0.1 %	0.4 %	0.1 %	0.2 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 2:25:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	-0.0013 ppm	0.0012 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0024 ppm
Concentration per Run 1	0.0006 ppm	-0.0017 ppm	0.0003 ppm	-0.0011 ppm	0.0001 ppm	0.0004 ppm	0.0047 ppm
Concentration per Run 2	0.0007 ppm	-0.0057 ppm	0.0025 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm	0.0033 ppm
Concentration per Run 3	0.0007 ppm	0.0036 ppm	0.0008 ppm	0.0013 ppm	0.0003 ppm	0.0003 ppm	-0.0009 ppm
Recovery Percentage 1	9.800 %	-1.273 %	23.961 %	-0.097 %	2.817 %	8.866 %	2.356 %
Concentration RSD	7.9 %	365.3 %	94.9 %	4,083.6 %	64.2 %	3.1 %	123.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0004 ppm	0.0006 ppm	0.0009 ppm	0.0014 ppm	0.0050 ppm	-0.0002 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	0.0007 ppm	0.0008 ppm	0.0007 ppm	0.0020 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0009 ppm	0.0027 ppm	0.0074 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0011 ppm	0.0008 ppm	0.0056 ppm	-0.0002 ppm
Recovery Percentage 1	7.384 %	-1.766 %	5.658 %	9.157 %	2.870 %	0.201 %	-3.591 %
Concentration RSD	45.6 %	52.3 %	23.3 %	16.7 %	78.1 %	54.5 %	98.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0118 ppm	0.0003 ppm	0.0002 ppm	-0.0013 ppm
Concentration per Run 1	0.0008 ppm	0.0005 ppm	0.0019 ppm	0.0175 ppm	0.0003 ppm	-0.0005 ppm	-0.0025 ppm
Concentration per Run 2	-0.0018 ppm	0.0003 ppm	0.0020 ppm	0.0090 ppm	0.0010 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 3	0.0015 ppm	0.0007 ppm	0.0012 ppm	0.0088 ppm	-0.0003 ppm	0.0009 ppm	0.0004 ppm
Recovery Percentage 1	0.145 %	4.916 %	3.395 %	0.588 %	1.351 %	1.594 %	-2.648 %
Concentration RSD	1,212.9 %	35.5 %	27.0 %	42.1 %	192.9 %	457.8 %	112.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.0060 ppm	0.0013 ppm	0.0004 ppm	0.0009 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0021 ppm	0.0047 ppm	0.0015 ppm	0.0003 ppm	0.0009 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0007 ppm	0.0071 ppm	0.0000 ppm	0.0004 ppm	0.0012 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	-0.0011 ppm	0.0061 ppm	0.0024 ppm	0.0004 ppm	0.0008 ppm	0.0011 ppm	0.0004 ppm
Recovery Percentage 1	5.595 %	1.198 %	2.645 %	3.851 %	9.406 %	-0.716 %	3.771 %
Concentration RSD	285.8 %	20.3 %	90.1 %	9.6 %	21.4 %	789.4 %	11.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	104.2257 %	103.3402 %	105.3175 %	105.5140 %	103.7550 %	105.9176 %
Concentration per Run 1	0.0006 ppm	103.7309 %	104.9682 %	105.6172 %	104.9659 %	105.1627 %	106.3992 %
Concentration per Run 2	0.0006 ppm	104.0539 %	102.5315 %	106.1160 %	105.4489 %	103.2543 %	106.5762 %
Concentration per Run 3	0.0005 ppm	104.8922 %	102.5210 %	104.2192 %	106.1272 %	102.8480 %	104.7773 %
Recovery Percentage 1	10.932 %						
Concentration RSD	12.5 %	0.6 %	1.4 %	0.9 %	0.6 %	1.2 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935403-4D2 WG1935403
Analysis started at: 6/18/2024 2:30:15 PM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0618 ppm	44.5739 ppm	0.1287 ppm	0.9405 ppm	2.2491 ppm	0.0506 ppm	15.6696 ppm
Concentration per Run 1	0.0615 ppm	44.0891 ppm	0.1285 ppm	0.9336 ppm	2.2319 ppm	0.0503 ppm	15.5617 ppm
Concentration per Run 2	0.0617 ppm	44.8010 ppm	0.1276 ppm	0.9358 ppm	2.2521 ppm	0.0507 ppm	15.7405 ppm
Concentration per Run 3	0.0621 ppm	44.8318 ppm	0.1299 ppm	0.9519 ppm	2.2634 ppm	0.0507 ppm	15.7065 ppm
Concentration RSD	0.5 %	0.9 %	0.9 %	1.1 %	0.7 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0581 ppm	0.5018 ppm	1.6996 ppm	3.5871 ppm	81.4719 ppm	20.0412 ppm	0.0859 ppm
Concentration per Run 1	0.0579 ppm	0.5005 ppm	1.6894 ppm	3.5850 ppm	81.1729 ppm	19.9011 ppm	0.0851 ppm
Concentration per Run 2	0.0579 ppm	0.5006 ppm	1.7001 ppm	3.5563 ppm	81.5937 ppm	20.1022 ppm	0.0864 ppm
Concentration per Run 3	0.0585 ppm	0.5044 ppm	1.7095 ppm	3.6200 ppm	81.6493 ppm	20.1204 ppm	0.0862 ppm
Concentration RSD	0.6 %	0.4 %	0.6 %	0.9 %	0.3 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.1212 ppm	1.4510 ppm	0.9354 ppm	10.4218 ppm	0.6315 ppm	0.9086 ppm	0.4708 ppm
Concentration per Run 1	26.9959 ppm	1.4415 ppm	0.9165 ppm	10.2690 ppm	0.6301 ppm	0.9060 ppm	0.4693 ppm
Concentration per Run 2	27.0434 ppm	1.4564 ppm	0.9333 ppm	10.5143 ppm	0.6281 ppm	0.9195 ppm	0.4700 ppm
Concentration per Run 3	27.3244 ppm	1.4551 ppm	0.9564 ppm	10.4820 ppm	0.6364 ppm	0.9004 ppm	0.4730 ppm
Concentration RSD	0.7 %	0.6 %	2.1 %	1.3 %	0.7 %	1.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1150 ppm	3.0171 ppm	1.0180 ppm	0.9373 ppm	4.6297 ppm	0.1158 ppm	0.5995 ppm
Concentration per Run 1	0.1131 ppm	3.0104 ppm	1.0129 ppm	0.9290 ppm	4.6075 ppm	0.1152 ppm	0.5976 ppm
Concentration per Run 2	0.1160 ppm	2.9866 ppm	1.0157 ppm	0.9395 ppm	4.6218 ppm	0.1172 ppm	0.5988 ppm
Concentration per Run 3	0.1159 ppm	3.0542 ppm	1.0254 ppm	0.9435 ppm	4.6599 ppm	0.1149 ppm	0.6021 ppm
Concentration RSD	1.4 %	1.1 %	0.6 %	0.8 %	0.6 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9602 ppm	104.4357 %	106.0046 %	100.9094 %	109.0119 %	111.5601 %	109.2235 %
Concentration per Run 1	2.9380 ppm	104.5146 %	105.9702 %	101.4678 %	109.0030 %	111.6552 %	109.8626 %
Concentration per Run 2	2.9596 ppm	104.7296 %	105.5485 %	101.0480 %	109.5633 %	111.0500 %	109.2905 %
Concentration per Run 3	2.9829 ppm	104.0629 %	106.4951 %	100.2125 %	108.4693 %	111.9750 %	108.5173 %
Concentration RSD	0.8 %	0.3 %	0.4 %	0.6 %	0.5 %	0.4 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935403-5D2 WG1935403
Analysis started at: 6/18/2024 2:33:43 PM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0605 ppm	51.2129 ppm	0.1286 ppm	0.9516 ppm	2.3570 ppm	0.0520 ppm	16.5381 ppm
Concentration per Run 1	0.0603 ppm	50.8838 ppm	0.1273 ppm	0.9493 ppm	2.3427 ppm	0.0515 ppm	16.4870 ppm
Concentration per Run 2	0.0609 ppm	51.2911 ppm	0.1296 ppm	0.9572 ppm	2.3623 ppm	0.0520 ppm	16.4461 ppm
Concentration per Run 3	0.0604 ppm	51.4638 ppm	0.1289 ppm	0.9483 ppm	2.3661 ppm	0.0523 ppm	16.6812 ppm
Concentration RSD	0.5 %	0.6 %	0.9 %	0.5 %	0.5 %	0.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0587 ppm	0.5188 ppm	1.5997 ppm	4.4990 ppm	91.0976 ppm	22.0276 ppm	0.1042 ppm
Concentration per Run 1	0.0589 ppm	0.5182 ppm	1.5917 ppm	4.4928 ppm	90.5936 ppm	21.8785 ppm	0.1034 ppm
Concentration per Run 2	0.0584 ppm	0.5188 ppm	1.6049 ppm	4.5232 ppm	91.0559 ppm	22.0851 ppm	0.1052 ppm
Concentration per Run 3	0.0587 ppm	0.5194 ppm	1.6024 ppm	4.4810 ppm	91.6433 ppm	22.1191 ppm	0.1041 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %	0.5 %	0.6 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.9995 ppm	1.6401 ppm	0.9615 ppm	10.5658 ppm	0.6527 ppm	0.9770 ppm	0.4811 ppm
Concentration per Run 1	30.8290 ppm	1.6355 ppm	0.9475 ppm	10.5069 ppm	0.6491 ppm	0.9785 ppm	0.4782 ppm
Concentration per Run 2	31.1397 ppm	1.6342 ppm	0.9629 ppm	10.5980 ppm	0.6543 ppm	0.9782 ppm	0.4823 ppm
Concentration per Run 3	31.0300 ppm	1.6505 ppm	0.9742 ppm	10.5924 ppm	0.6546 ppm	0.9743 ppm	0.4828 ppm
Concentration RSD	0.5 %	0.6 %	1.4 %	0.5 %	0.5 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1137 ppm	2.9002 ppm	1.0457 ppm	0.9621 ppm	5.2691 ppm	0.1170 ppm	0.6286 ppm
Concentration per Run 1	0.1158 ppm	2.9149 ppm	1.0387 ppm	0.9588 ppm	5.2462 ppm	0.1156 ppm	0.6268 ppm
Concentration per Run 2	0.1110 ppm	2.9076 ppm	1.0551 ppm	0.9627 ppm	5.2886 ppm	0.1176 ppm	0.6291 ppm
Concentration per Run 3	0.1143 ppm	2.8781 ppm	1.0434 ppm	0.9647 ppm	5.2725 ppm	0.1178 ppm	0.6299 ppm
Concentration RSD	2.2 %	0.7 %	0.8 %	0.3 %	0.4 %	1.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6577 ppm	104.6521 %	106.8786 %	101.2779 %	109.9836 %	112.7451 %	109.8969 %
Concentration per Run 1	2.6418 ppm	104.9927 %	107.1010 %	100.9096 %	110.6219 %	112.7898 %	109.6511 %
Concentration per Run 2	2.6673 ppm	104.9781 %	107.9110 %	100.9888 %	110.1044 %	114.1352 %	109.2971 %
Concentration per Run 3	2.6641 ppm	103.9855 %	105.6237 %	101.9354 %	109.2244 %	111.3102 %	110.7426 %
Concentration RSD	0.5 %	0.6 %	1.1 %	0.6 %	0.6 %	1.3 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935283-1 WG1935283
Analysis started at: 6/18/2024 2:53:47 PM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0038 ppm	0.0016 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0408 ppm
Concentration per Run 1	-0.0003 ppm	0.0028 ppm	0.0026 ppm	0.0032 ppm	0.0002 ppm	0.0000 ppm	0.0406 ppm
Concentration per Run 2	0.0006 ppm	-0.0090 ppm	0.0003 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0408 ppm
Concentration per Run 3	0.0005 ppm	-0.0053 ppm	0.0020 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0409 ppm
Recovery Percentage 1	3.485 %	-3.808 %	32.423 %	6.158 %	1.390 %	0.208 %	40.805 %
Concentration RSD	204.9 %	159.0 %	74.1 %	70.8 %	65.7 %	240.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0004 ppm	0.0012 ppm	0.0051 ppm	0.0392 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0007 ppm	0.0003 ppm	0.0013 ppm	0.0053 ppm	0.0600 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	0.0003 ppm	0.0011 ppm	0.0045 ppm	0.0222 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0012 ppm	0.0055 ppm	0.0354 ppm	-0.0005 ppm
Recovery Percentage 1	0.617 %	-3.423 %	3.699 %	12.160 %	10.193 %	1.567 %	-2.402 %
Concentration RSD	430.2 %	14.8 %	29.2 %	11.4 %	9.8 %	49.0 %	301.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0075 ppm	0.0002 ppm	-0.0011 ppm	133.2212 ppm	-0.0002 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0089 ppm	0.0004 ppm	-0.0014 ppm	133.6326 ppm	-0.0009 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 2	0.0065 ppm	0.0002 ppm	-0.0014 ppm	132.9250 ppm	0.0004 ppm	0.0006 ppm	-0.0029 ppm
Concentration per Run 3	0.0070 ppm	0.0000 ppm	-0.0007 ppm	133.1061 ppm	0.0000 ppm	0.0011 ppm	0.0038 ppm
Recovery Percentage 1	7.478 %	1.933 %	-2.277 %	6,661.061 %	-0.632 %	7.791 %	0.274 %
Concentration RSD	16.3 %	108.4 %	35.1 %	0.3 %	415.8 %	40.4 %	2,465.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0203 ppm	0.0014 ppm	0.0001 ppm	-0.0001 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 1	0.0030 ppm	0.0211 ppm	0.0021 ppm	0.0001 ppm	-0.0002 ppm	-0.0025 ppm	-0.0003 ppm
Concentration per Run 2	-0.0009 ppm	0.0192 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0017 ppm	-0.0003 ppm
Concentration per Run 3	-0.0014 ppm	0.0207 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	-0.0012 ppm	0.0003 ppm
Recovery Percentage 1	2.219 %	4.068 %	2.745 %	1.461 %	-0.976 %	-9.130 %	-1.112 %
Concentration RSD	1,088.9 %	4.8 %	70.1 %	47.0 %	96.5 %	34.1 %	282.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0032 ppm	100.1972 %	101.1762 %	93.4695 %	99.6620 %	100.9069 %	98.9540 %
Concentration per Run 1	0.0032 ppm	99.6118 %	101.3825 %	94.6506 %	99.1102 %	100.7988 %	100.3409 %
Concentration per Run 2	0.0033 ppm	99.1169 %	100.7234 %	93.1460 %	98.7296 %	100.3933 %	98.7176 %
Concentration per Run 3	0.0030 ppm	101.8628 %	101.4228 %	92.6120 %	101.1463 %	101.5286 %	97.8034 %
Recovery Percentage 1	63.863 %						
Concentration RSD	4.5 %	1.5 %	0.4 %	1.1 %	1.3 %	0.6 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935283-2 WG1935283
Analysis started at: 6/18/2024 2:57:22 PM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0463 ppm	1.8444 ppm	0.1166 ppm	0.8595 ppm	1.8773 ppm	0.0474 ppm	9.2051 ppm
Concentration per Run 1	0.0463 ppm	1.8515 ppm	0.1175 ppm	0.8557 ppm	1.8939 ppm	0.0476 ppm	9.2487 ppm
Concentration per Run 2	0.0457 ppm	1.8510 ppm	0.1146 ppm	0.8572 ppm	1.8760 ppm	0.0477 ppm	9.2342 ppm
Concentration per Run 3	0.0468 ppm	1.8309 ppm	0.1177 ppm	0.8657 ppm	1.8621 ppm	0.0470 ppm	9.1324 ppm
Concentration RSD	1.2 %	0.6 %	1.5 %	0.6 %	0.8 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0494 ppm	0.4601 ppm	0.1819 ppm	0.2341 ppm	0.9578 ppm	9.2586 ppm	-0.0008 ppm
Concentration per Run 1	0.0488 ppm	0.4569 ppm	0.1815 ppm	0.2340 ppm	0.9689 ppm	9.3303 ppm	-0.0010 ppm
Concentration per Run 2	0.0495 ppm	0.4614 ppm	0.1808 ppm	0.2336 ppm	0.9510 ppm	9.2774 ppm	-0.0020 ppm
Concentration per Run 3	0.0500 ppm	0.4619 ppm	0.1832 ppm	0.2347 ppm	0.9535 ppm	9.1682 ppm	0.0006 ppm
Concentration RSD	1.2 %	0.6 %	0.7 %	0.3 %	1.0 %	0.9 %	173.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.9036 ppm	0.4712 ppm	0.9411 ppm	9.3221 ppm	0.4598 ppm	0.5234 ppm	0.4675 ppm
Concentration per Run 1	8.8762 ppm	0.4733 ppm	0.9327 ppm	9.3528 ppm	0.4577 ppm	0.5191 ppm	0.4672 ppm
Concentration per Run 2	8.8669 ppm	0.4722 ppm	0.9428 ppm	9.3143 ppm	0.4601 ppm	0.5266 ppm	0.4662 ppm
Concentration per Run 3	8.9677 ppm	0.4680 ppm	0.9476 ppm	9.2992 ppm	0.4618 ppm	0.5245 ppm	0.4692 ppm
Concentration RSD	0.6 %	0.6 %	0.8 %	0.3 %	0.5 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1134 ppm	1.0976 ppm	0.9182 ppm	0.8874 ppm	0.9060 ppm	0.1173 ppm	0.4633 ppm
Concentration per Run 1	0.1137 ppm	1.0954 ppm	0.9161 ppm	0.8949 ppm	0.9003 ppm	0.1174 ppm	0.4617 ppm
Concentration per Run 2	0.1131 ppm	1.0926 ppm	0.9186 ppm	0.8861 ppm	0.9039 ppm	0.1163 ppm	0.4631 ppm
Concentration per Run 3	0.1134 ppm	1.1046 ppm	0.9198 ppm	0.8814 ppm	0.9140 ppm	0.1184 ppm	0.4651 ppm
Concentration RSD	0.3 %	0.6 %	0.2 %	0.8 %	0.8 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4553 ppm	104.3291 %	102.5684 %	98.0278 %	104.0898 %	102.0910 %	100.7357 %
Concentration per Run 1	0.4519 ppm	104.4434 %	101.4903 %	97.9068 %	104.0736 %	101.0815 %	100.9590 %
Concentration per Run 2	0.4547 ppm	104.8996 %	102.8785 %	99.0134 %	105.0189 %	102.5285 %	101.7977 %
Concentration per Run 3	0.4591 ppm	103.6442 %	103.3365 %	97.1630 %	103.1768 %	102.6631 %	99.4504 %
Concentration RSD	0.8 %	0.6 %	0.9 %	0.9 %	0.9 %	0.9 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432606-01 WG1935283
Analysis started at: 6/18/2024 3:00:51 PM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0167 ppm	-0.0012 ppm	0.0064 ppm	0.0537 ppm	0.0000 ppm	39.8079 ppm
Concentration per Run 1	-0.0001 ppm	0.0199 ppm	0.0000 ppm	0.0093 ppm	0.0534 ppm	0.0001 ppm	39.8997 ppm
Concentration per Run 2	0.0002 ppm	0.0161 ppm	-0.0031 ppm	0.0053 ppm	0.0541 ppm	0.0001 ppm	39.9533 ppm
Concentration per Run 3	0.0003 ppm	0.0140 ppm	-0.0006 ppm	0.0046 ppm	0.0535 ppm	0.0000 ppm	39.5706 ppm
Concentration RSD	187.5 %	17.9 %	131.5 %	39.9 %	0.7 %	93.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0024 ppm	0.0015 ppm	0.0017 ppm	3.9016 ppm	0.5138 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0017 ppm	0.0018 ppm	0.0016 ppm	3.9046 ppm	0.5279 ppm	0.0013 ppm
Concentration per Run 2	0.0003 ppm	0.0030 ppm	0.0014 ppm	0.0017 ppm	3.9205 ppm	0.5307 ppm	0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0024 ppm	0.0014 ppm	0.0017 ppm	3.8798 ppm	0.4827 ppm	0.0005 ppm
Concentration RSD	27.5 %	27.1 %	16.9 %	4.7 %	0.5 %	5.2 %	73.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1156 ppm	0.1817 ppm	0.0020 ppm	132.1471 ppm	0.0065 ppm	0.0084 ppm	-0.0013 ppm
Concentration per Run 1	1.1127 ppm	0.1825 ppm	0.0019 ppm	132.2391 ppm	0.0063 ppm	0.0078 ppm	0.0032 ppm
Concentration per Run 2	1.1179 ppm	0.1825 ppm	0.0019 ppm	133.0785 ppm	0.0069 ppm	0.0092 ppm	-0.0035 ppm
Concentration per Run 3	1.1161 ppm	0.1799 ppm	0.0022 ppm	131.1237 ppm	0.0063 ppm	0.0082 ppm	-0.0036 ppm
Concentration RSD	0.2 %	0.8 %	9.7 %	0.7 %	5.0 %	8.6 %	298.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.8642 ppm	0.0010 ppm	0.1284 ppm	0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0021 ppm	0.8581 ppm	0.0016 ppm	0.1282 ppm	0.0004 ppm	-0.0008 ppm	-0.0004 ppm
Concentration per Run 2	0.0029 ppm	0.8644 ppm	0.0014 ppm	0.1292 ppm	0.0001 ppm	-0.0018 ppm	0.0006 ppm
Concentration per Run 3	-0.0033 ppm	0.8702 ppm	0.0000 ppm	0.1278 ppm	0.0005 ppm	-0.0011 ppm	-0.0002 ppm
Concentration RSD	613.7 %	0.7 %	84.5 %	0.6 %	63.1 %	44.3 %	4,854.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0527 ppm	100.1606 %	103.4464 %	93.5431 %	99.1130 %	102.5681 %	99.9314 %
Concentration per Run 1	1.0478 ppm	100.3114 %	102.9062 %	92.9000 %	99.4770 %	102.2564 %	99.0367 %
Concentration per Run 2	1.0558 ppm	99.9535 %	103.9020 %	94.5610 %	98.5190 %	102.8191 %	100.9025 %
Concentration per Run 3	1.0543 ppm	100.2167 %	103.5309 %	93.1683 %	99.3430 %	102.6290 %	99.8549 %
Concentration RSD	0.4 %	0.2 %	0.5 %	1.0 %	0.5 %	0.3 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433113-01 WG1935283
Analysis started at: 6/18/2024 3:04:21 PM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0084 ppm	-0.0003 ppm	0.0120 ppm	0.0154 ppm	0.0000 ppm	89.7933 ppm
Concentration per Run 1	-0.0004 ppm	-0.0094 ppm	-0.0026 ppm	0.0129 ppm	0.0152 ppm	0.0000 ppm	88.9656 ppm
Concentration per Run 2	0.0000 ppm	-0.0026 ppm	0.0008 ppm	0.0107 ppm	0.0154 ppm	0.0000 ppm	89.6848 ppm
Concentration per Run 3	-0.0001 ppm	-0.0133 ppm	0.0009 ppm	0.0124 ppm	0.0155 ppm	0.0000 ppm	90.7296 ppm
Concentration RSD	107.8 %	64.3 %	671.4 %	9.8 %	0.8 %	368.9 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	-0.0001 ppm	0.0021 ppm	0.0139 ppm	0.0036 ppm	0.6801 ppm	0.0006 ppm
Concentration per Run 1	0.0013 ppm	0.0001 ppm	0.0022 ppm	0.0139 ppm	0.0030 ppm	0.6966 ppm	0.0016 ppm
Concentration per Run 2	0.0012 ppm	-0.0002 ppm	0.0018 ppm	0.0141 ppm	0.0035 ppm	0.6768 ppm	0.0004 ppm
Concentration per Run 3	0.0011 ppm	-0.0004 ppm	0.0024 ppm	0.0138 ppm	0.0042 ppm	0.6670 ppm	-0.0001 ppm
Concentration RSD	7.7 %	196.4 %	14.0 %	0.9 %	17.3 %	2.2 %	135.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9810 ppm	0.0461 ppm	0.0003 ppm	127.6296 ppm	0.0074 ppm	0.0696 ppm	0.0017 ppm
Concentration per Run 1	0.9773 ppm	0.0458 ppm	0.0007 ppm	126.7393 ppm	0.0082 ppm	0.0700 ppm	0.0058 ppm
Concentration per Run 2	0.9897 ppm	0.0460 ppm	0.0004 ppm	127.3073 ppm	0.0076 ppm	0.0695 ppm	0.0014 ppm
Concentration per Run 3	0.9758 ppm	0.0464 ppm	0.0000 ppm	128.8421 ppm	0.0064 ppm	0.0694 ppm	-0.0021 ppm
Concentration RSD	0.8 %	0.6 %	102.8 %	0.9 %	12.5 %	0.5 %	234.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	2.6924 ppm	0.0004 ppm	0.1864 ppm	0.0005 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 1	0.0004 ppm	2.6762 ppm	0.0000 ppm	0.1856 ppm	0.0004 ppm	-0.0013 ppm	0.0003 ppm
Concentration per Run 2	-0.0042 ppm	2.7130 ppm	0.0003 ppm	0.1861 ppm	0.0006 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	2.6881 ppm	0.0008 ppm	0.1875 ppm	0.0004 ppm	-0.0020 ppm	0.0003 ppm
Concentration RSD	135.2 %	0.7 %	104.0 %	0.5 %	22.3 %	29.6 %	95.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2478 ppm	99.8034 %	101.7280 %	93.0835 %	98.5743 %	101.0971 %	99.7296 %
Concentration per Run 1	0.2478 ppm	99.5447 %	103.2719 %	93.5050 %	98.1999 %	103.1284 %	100.1003 %
Concentration per Run 2	0.2505 ppm	98.5594 %	101.3989 %	93.2428 %	97.3068 %	100.3703 %	99.9031 %
Concentration per Run 3	0.2450 ppm	101.3060 %	100.5133 %	92.5026 %	100.2162 %	99.7927 %	99.1853 %
Concentration RSD	1.1 %	1.4 %	1.4 %	0.6 %	1.5 %	1.8 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935283-3 WG1935283
Analysis started at: 6/18/2024 3:07:50 PM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0460 ppm	1.8875 ppm	0.1240 ppm	0.8800 ppm	1.9081 ppm	0.0487 ppm	102.8724 ppm
Concentration per Run 1	0.0456 ppm	1.8984 ppm	0.1239 ppm	0.8776 ppm	1.9081 ppm	0.0487 ppm	102.7896 ppm
Concentration per Run 2	0.0465 ppm	1.8640 ppm	0.1253 ppm	0.8788 ppm	1.9004 ppm	0.0485 ppm	102.7541 ppm
Concentration per Run 3	0.0460 ppm	1.8999 ppm	0.1229 ppm	0.8836 ppm	1.9159 ppm	0.0489 ppm	103.0735 ppm
Concentration RSD	1.0 %	1.1 %	1.0 %	0.4 %	0.4 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0508 ppm	0.4569 ppm	0.1853 ppm	0.2456 ppm	0.9742 ppm	10.1523 ppm	-0.0004 ppm
Concentration per Run 1	0.0509 ppm	0.4560 ppm	0.1848 ppm	0.2452 ppm	0.9720 ppm	10.1868 ppm	-0.0014 ppm
Concentration per Run 2	0.0514 ppm	0.4609 ppm	0.1848 ppm	0.2480 ppm	0.9688 ppm	10.0781 ppm	0.0005 ppm
Concentration per Run 3	0.0502 ppm	0.4538 ppm	0.1863 ppm	0.2435 ppm	0.9818 ppm	10.1921 ppm	-0.0004 ppm
Concentration RSD	1.1 %	0.8 %	0.5 %	0.9 %	0.7 %	0.6 %	213.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6770 ppm	0.5207 ppm	0.9615 ppm	142.3881 ppm	0.4596 ppm	0.5956 ppm	0.4758 ppm
Concentration per Run 1	9.6083 ppm	0.5204 ppm	0.9555 ppm	141.9087 ppm	0.4593 ppm	0.5912 ppm	0.4694 ppm
Concentration per Run 2	9.7450 ppm	0.5223 ppm	0.9616 ppm	141.5599 ppm	0.4569 ppm	0.5989 ppm	0.4787 ppm
Concentration per Run 3	9.6778 ppm	0.5193 ppm	0.9676 ppm	143.6956 ppm	0.4624 ppm	0.5965 ppm	0.4792 ppm
Concentration RSD	0.7 %	0.3 %	0.6 %	0.8 %	0.6 %	0.7 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1178 ppm	4.0317 ppm	0.9251 ppm	1.0901 ppm	0.9252 ppm	0.1148 ppm	0.4775 ppm
Concentration per Run 1	0.1207 ppm	4.0110 ppm	0.9206 ppm	1.0898 ppm	0.9186 ppm	0.1131 ppm	0.4759 ppm
Concentration per Run 2	0.1197 ppm	4.0540 ppm	0.9260 ppm	1.0872 ppm	0.9303 ppm	0.1159 ppm	0.4794 ppm
Concentration per Run 3	0.1130 ppm	4.0302 ppm	0.9287 ppm	1.0932 ppm	0.9268 ppm	0.1155 ppm	0.4771 ppm
Concentration RSD	3.6 %	0.5 %	0.4 %	0.3 %	0.7 %	1.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7255 ppm	99.4843 %	102.1570 %	92.0807 %	97.9704 %	101.7064 %	98.6859 %
Concentration per Run 1	0.7241 ppm	98.7386 %	102.3393 %	92.6859 %	97.5437 %	102.0454 %	99.3319 %
Concentration per Run 2	0.7243 ppm	99.6820 %	102.4629 %	91.8179 %	98.1977 %	102.0934 %	98.3160 %
Concentration per Run 3	0.7280 ppm	100.0324 %	101.6687 %	91.7384 %	98.1699 %	100.9806 %	98.4097 %
Concentration RSD	0.3 %	0.7 %	0.4 %	0.6 %	0.4 %	0.6 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935283-4 WG1935283
Analysis started at: 6/18/2024 3:11:19 PM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0058 ppm	-0.0004 ppm	0.0125 ppm	0.0158 ppm	0.0000 ppm	92.6926 ppm
Concentration per Run 1	0.0000 ppm	-0.0082 ppm	0.0004 ppm	0.0115 ppm	0.0158 ppm	0.0000 ppm	92.5435 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	-0.0036 ppm	0.0133 ppm	0.0157 ppm	0.0000 ppm	92.9679 ppm
Concentration per Run 3	-0.0006 ppm	-0.0081 ppm	0.0020 ppm	0.0126 ppm	0.0159 ppm	0.0000 ppm	92.5665 ppm
Concentration RSD	162.1 %	70.9 %	791.9 %	7.1 %	0.5 %	218.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0001 ppm	0.0026 ppm	0.0142 ppm	0.0027 ppm	0.7336 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	-0.0003 ppm	0.0025 ppm	0.0136 ppm	0.0029 ppm	0.7480 ppm	-0.0005 ppm
Concentration per Run 2	0.0013 ppm	0.0006 ppm	0.0027 ppm	0.0148 ppm	0.0030 ppm	0.7248 ppm	0.0007 ppm
Concentration per Run 3	0.0011 ppm	-0.0001 ppm	0.0026 ppm	0.0141 ppm	0.0022 ppm	0.7280 ppm	0.0001 ppm
Concentration RSD	10.1 %	860.9 %	4.7 %	4.4 %	16.1 %	1.7 %	563.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0121 ppm	0.1129 ppm	0.0029 ppm	131.8537 ppm	0.0074 ppm	0.0742 ppm	0.0002 ppm
Concentration per Run 1	1.0083 ppm	0.1133 ppm	0.0033 ppm	132.1164 ppm	0.0080 ppm	0.0750 ppm	-0.0011 ppm
Concentration per Run 2	1.0170 ppm	0.1130 ppm	0.0030 ppm	132.1906 ppm	0.0074 ppm	0.0749 ppm	0.0004 ppm
Concentration per Run 3	1.0109 ppm	0.1124 ppm	0.0025 ppm	131.2541 ppm	0.0069 ppm	0.0728 ppm	0.0014 ppm
Concentration RSD	0.4 %	0.4 %	13.5 %	0.4 %	7.6 %	1.7 %	556.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	2.7817 ppm	0.0006 ppm	0.1926 ppm	0.0008 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 1	-0.0029 ppm	2.7791 ppm	0.0012 ppm	0.1927 ppm	0.0006 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 2	-0.0005 ppm	2.7997 ppm	0.0012 ppm	0.1931 ppm	0.0009 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 3	0.0006 ppm	2.7664 ppm	-0.0005 ppm	0.1920 ppm	0.0008 ppm	-0.0006 ppm	0.0002 ppm
Concentration RSD	192.8 %	0.6 %	156.5 %	0.3 %	15.7 %	52.8 %	68.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2572 ppm	100.8240 %	102.4899 %	91.7461 %	99.6701 %	102.0637 %	98.4736 %
Concentration per Run 1	0.2559 ppm	101.9234 %	103.4419 %	91.8807 %	100.5123 %	103.2250 %	98.7603 %
Concentration per Run 2	0.2568 ppm	100.8172 %	102.2816 %	92.0143 %	99.7185 %	101.5421 %	98.8421 %
Concentration per Run 3	0.2591 ppm	99.7315 %	101.7463 %	91.3433 %	98.7796 %	101.4239 %	97.8185 %
Concentration RSD	0.6 %	1.1 %	0.8 %	0.4 %	0.9 %	1.0 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 3:14:49 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4843 ppm	0.4644 ppm	0.4590 ppm	0.4788 ppm	0.4793 ppm	0.4936 ppm	0.4723 ppm
Concentration per Run 1	0.4817 ppm	0.4723 ppm	0.4616 ppm	0.4766 ppm	0.4842 ppm	0.5003 ppm	0.4778 ppm
Concentration per Run 2	0.4852 ppm	0.4586 ppm	0.4564 ppm	0.4784 ppm	0.4756 ppm	0.4900 ppm	0.4661 ppm
Concentration per Run 3	0.4861 ppm	0.4622 ppm	0.4589 ppm	0.4812 ppm	0.4781 ppm	0.4906 ppm	0.4731 ppm
Recovery Percentage 1	96.869 %	92.871 %	91.793 %	95.752 %	95.858 %	98.722 %	94.469 %
Concentration RSD	0.5 %	1.5 %	0.6 %	0.5 %	0.9 %	1.2 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4820 ppm	0.4948 ppm	0.4740 ppm	0.4818 ppm	0.4899 ppm	4.9327 ppm	0.4799 ppm
Concentration per Run 1	0.4841 ppm	0.4921 ppm	0.4719 ppm	0.4767 ppm	0.4963 ppm	4.9819 ppm	0.4860 ppm
Concentration per Run 2	0.4800 ppm	0.4928 ppm	0.4747 ppm	0.4823 ppm	0.4873 ppm	4.8758 ppm	0.4744 ppm
Concentration per Run 3	0.4819 ppm	0.4995 ppm	0.4752 ppm	0.4865 ppm	0.4862 ppm	4.9405 ppm	0.4792 ppm
Recovery Percentage 1	96.403 %	98.962 %	94.792 %	96.368 %	97.986 %	98.655 %	95.973 %
Concentration RSD	0.4 %	0.8 %	0.4 %	1.0 %	1.1 %	1.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4725 ppm	0.4699 ppm	0.4837 ppm	9.6208 ppm	0.4888 ppm	0.4853 ppm	0.4839 ppm
Concentration per Run 1	0.4702 ppm	0.4750 ppm	0.4781 ppm	9.7917 ppm	0.4861 ppm	0.4855 ppm	0.4795 ppm
Concentration per Run 2	0.4746 ppm	0.4673 ppm	0.4825 ppm	9.5341 ppm	0.4882 ppm	0.4854 ppm	0.4787 ppm
Concentration per Run 3	0.4727 ppm	0.4673 ppm	0.4905 ppm	9.5365 ppm	0.4922 ppm	0.4848 ppm	0.4935 ppm
Recovery Percentage 1	94.500 %	93.975 %	96.739 %	96.208 %	97.768 %	97.052 %	96.780 %
Concentration RSD	0.5 %	1.0 %	1.3 %	1.5 %	0.6 %	0.1 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4797 ppm	5.4328 ppm	0.5069 ppm	0.4868 ppm	0.4813 ppm	0.4879 ppm	0.4735 ppm
Concentration per Run 1	0.4799 ppm	5.4157 ppm	0.5028 ppm	0.4917 ppm	0.4786 ppm	0.4882 ppm	0.4716 ppm
Concentration per Run 2	0.4815 ppm	5.4119 ppm	0.5085 ppm	0.4837 ppm	0.4821 ppm	0.4898 ppm	0.4720 ppm
Concentration per Run 3	0.4776 ppm	5.4708 ppm	0.5095 ppm	0.4850 ppm	0.4833 ppm	0.4858 ppm	0.4770 ppm
Recovery Percentage 1	95.938 %	103.482 %	101.386 %	97.365 %	96.269 %	97.581 %	94.706 %
Concentration RSD	0.4 %	0.6 %	0.7 %	0.9 %	0.5 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4893 ppm	106.2941 %	105.2903 %	104.4443 %	105.6473 %	104.9358 %	104.7838 %
Concentration per Run 1	0.4879 ppm	107.2200 %	103.9145 %	104.5463 %	106.3543 %	103.5881 %	105.2089 %
Concentration per Run 2	0.4891 ppm	105.8951 %	105.8919 %	105.0811 %	105.2113 %	105.8778 %	105.3799 %
Concentration per Run 3	0.4910 ppm	105.7674 %	106.0644 %	103.7056 %	105.3764 %	105.3414 %	103.7625 %
Recovery Percentage 1	97.862 %						
Concentration RSD	0.3 %	0.8 %	1.1 %	0.7 %	0.6 %	1.1 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 3:18:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0058 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm
Concentration per Run 1	0.0002 ppm	-0.0054 ppm	-0.0005 ppm	-0.0013 ppm	0.0003 ppm	0.0004 ppm	0.0032 ppm
Concentration per Run 2	0.0004 ppm	-0.0023 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0042 ppm
Concentration per Run 3	-0.0001 ppm	-0.0097 ppm	0.0007 ppm	0.0018 ppm	0.0003 ppm	0.0004 ppm	0.0009 ppm
Recovery Percentage 1	2.518 %	-5.807 %	5.634 %	0.529 %	2.124 %	10.003 %	2.740 %
Concentration RSD	146.6 %	64.3 %	242.1 %	959.0 %	52.5 %	3.1 %	62.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0010 ppm	0.0130 ppm	-0.0011 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0019 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0009 ppm	0.0003 ppm	0.0128 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0011 ppm	0.0008 ppm	0.0262 ppm	-0.0014 ppm
Recovery Percentage 1	6.189 %	0.716 %	8.289 %	10.251 %	2.015 %	0.520 %	-21.455 %
Concentration RSD	70.1 %	156.6 %	29.3 %	12.7 %	82.1 %	101.4 %	29.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0092 ppm	-0.0002 ppm	0.0013 ppm	0.0008 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.0022 ppm	0.0088 ppm	-0.0006 ppm	0.0022 ppm	-0.0010 ppm
Concentration per Run 2	-0.0006 ppm	0.0001 ppm	0.0018 ppm	0.0086 ppm	0.0002 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 3	0.0013 ppm	0.0002 ppm	0.0021 ppm	0.0103 ppm	-0.0003 ppm	0.0009 ppm	0.0035 ppm
Recovery Percentage 1	0.040 %	1.863 %	4.048 %	0.462 %	-0.891 %	12.755 %	1.519 %
Concentration RSD	2,831.8 %	33.1 %	8.7 %	10.2 %	173.3 %	64.3 %	319.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0069 ppm	0.0009 ppm	0.0004 ppm	0.0005 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	-0.0007 ppm	0.0076 ppm	0.0004 ppm	0.0003 ppm	0.0006 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 2	0.0007 ppm	0.0057 ppm	0.0016 ppm	0.0004 ppm	0.0009 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0075 ppm	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0015 ppm	0.0002 ppm
Recovery Percentage 1	0.128 %	1.387 %	1.786 %	3.569 %	5.424 %	2.327 %	2.923 %
Concentration RSD	5,494.1 %	15.2 %	67.1 %	16.5 %	78.4 %	250.9 %	30.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	106.5848 %	103.9313 %	106.0074 %	107.8434 %	104.1870 %	106.1352 %
Concentration per Run 1	0.0005 ppm	106.7107 %	103.4760 %	107.2455 %	107.7962 %	103.8340 %	107.2852 %
Concentration per Run 2	0.0004 ppm	107.4143 %	104.1679 %	105.6383 %	108.6494 %	104.7393 %	105.7364 %
Concentration per Run 3	0.0004 ppm	105.6294 %	104.1500 %	105.1384 %	107.0845 %	103.9876 %	105.3840 %
Recovery Percentage 1	9.266 %						
Concentration RSD	17.0 %	0.8 %	0.4 %	1.0 %	0.7 %	0.5 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-1 WG1935328
Analysis started at: 6/18/2024 3:25:14 PM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0040 ppm	0.0001 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	-0.0002 ppm	-0.0021 ppm	0.0006 ppm	0.0010 ppm	-0.0002 ppm	0.0001 ppm	0.0027 ppm
Concentration per Run 2	0.0001 ppm	-0.0054 ppm	-0.0014 ppm	0.0020 ppm	-0.0003 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 3	0.0004 ppm	-0.0044 ppm	0.0012 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0029 ppm
Recovery Percentage 1	1.455 %	-3.959 %	2.541 %	4.756 %	-2.331 %	0.232 %	3.057 %
Concentration RSD	279.3 %	43.4 %	1,052.2 %	34.2 %	22.3 %	446.7 %	14.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0006 ppm	-0.0005 ppm	-0.0012 ppm	-0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0092 ppm	-0.0003 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0035 ppm	-0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0008 ppm	0.0007 ppm	-0.0013 ppm	-0.0164 ppm	-0.0014 ppm
Recovery Percentage 1	-0.545 %	-2.067 %	4.081 %	5.937 %	-1.066 %	-0.048 %	-15.918 %
Concentration RSD	591.8 %	39.0 %	93.5 %	20.7 %	119.3 %	1,110.4 %	73.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	0.0000 ppm	-0.0005 ppm	-0.0036 ppm	0.0002 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0006 ppm	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0005 ppm	-0.0007 ppm	-0.0017 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0046 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 3	0.0013 ppm	0.0000 ppm	-0.0005 ppm	-0.0055 ppm	0.0006 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	0.679 %	0.404 %	-0.972 %	-0.179 %	0.855 %	-0.996 %	-2.155 %
Concentration RSD	95.2 %	346.6 %	40.7 %	72.0 %	269.6 %	557.5 %	55.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0019 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0050 ppm	0.0038 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	-0.0011 ppm	0.0015 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.0013 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	-16.228 %	0.374 %	-0.377 %	0.077 %	-0.372 %	1.315 %	-2.602 %
Concentration RSD	196.6 %	92.5 %	339.4 %	644.0 %	393.0 %	279.0 %	13.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	103.6637 %	101.9872 %	103.7437 %	103.9200 %	102.0191 %	101.9769 %
Concentration per Run 1	0.0026 ppm	104.1813 %	101.6596 %	104.0591 %	104.0091 %	101.3480 %	102.1145 %
Concentration per Run 2	0.0026 ppm	103.2208 %	101.9326 %	103.9177 %	103.5750 %	102.0804 %	102.4253 %
Concentration per Run 3	0.0026 ppm	103.5890 %	102.3696 %	103.2543 %	104.1760 %	102.6291 %	101.3909 %
Recovery Percentage 1	52.077 %						
Concentration RSD	0.9 %	0.5 %	0.4 %	0.4 %	0.3 %	0.6 %	0.5 %

ICP DataTrace 9

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LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-2 WG1935328
Analysis started at: 6/18/2024 3:28:56 PM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	2.0146 ppm	0.1192 ppm	0.9974 ppm	2.0267 ppm	0.0519 ppm	10.4009 ppm
Concentration per Run 1	0.0509 ppm	2.0174 ppm	0.1205 ppm	1.0085 ppm	2.0328 ppm	0.0521 ppm	10.3947 ppm
Concentration per Run 2	0.0501 ppm	2.0145 ppm	0.1168 ppm	0.9947 ppm	2.0396 ppm	0.0521 ppm	10.3979 ppm
Concentration per Run 3	0.0500 ppm	2.0117 ppm	0.1202 ppm	0.9890 ppm	2.0077 ppm	0.0515 ppm	10.4102 ppm
Concentration RSD	1.0 %	0.1 %	1.7 %	1.0 %	0.8 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0533 ppm	0.4984 ppm	0.1942 ppm	0.2538 ppm	1.0378 ppm	10.6738 ppm	-0.0012 ppm
Concentration per Run 1	0.0532 ppm	0.5057 ppm	0.1944 ppm	0.2581 ppm	1.0398 ppm	10.7272 ppm	-0.0017 ppm
Concentration per Run 2	0.0535 ppm	0.4948 ppm	0.1947 ppm	0.2503 ppm	1.0400 ppm	10.6748 ppm	-0.0011 ppm
Concentration per Run 3	0.0532 ppm	0.4948 ppm	0.1934 ppm	0.2529 ppm	1.0335 ppm	10.6195 ppm	-0.0009 ppm
Concentration RSD	0.3 %	1.3 %	0.3 %	1.6 %	0.4 %	0.5 %	36.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9644 ppm	0.5138 ppm	0.8888 ppm	10.5976 ppm	0.4961 ppm	0.5453 ppm	0.4256 ppm
Concentration per Run 1	10.0362 ppm	0.5146 ppm	0.8827 ppm	10.6077 ppm	0.4967 ppm	0.5407 ppm	0.4291 ppm
Concentration per Run 2	9.9304 ppm	0.5136 ppm	0.8828 ppm	10.5781 ppm	0.4981 ppm	0.5490 ppm	0.4147 ppm
Concentration per Run 3	9.9265 ppm	0.5132 ppm	0.9010 ppm	10.6071 ppm	0.4934 ppm	0.5463 ppm	0.4330 ppm
Concentration RSD	0.6 %	0.1 %	1.2 %	0.2 %	0.5 %	0.8 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1246 ppm	1.0206 ppm	0.9838 ppm	0.9967 ppm	0.9972 ppm	0.1233 ppm	0.4990 ppm
Concentration per Run 1	0.1225 ppm	1.0235 ppm	0.9903 ppm	0.9998 ppm	1.0084 ppm	0.1220 ppm	0.5048 ppm
Concentration per Run 2	0.1230 ppm	1.0192 ppm	0.9779 ppm	1.0027 ppm	0.9945 ppm	0.1244 ppm	0.4945 ppm
Concentration per Run 3	0.1284 ppm	1.0192 ppm	0.9831 ppm	0.9876 ppm	0.9888 ppm	0.1234 ppm	0.4977 ppm
Concentration RSD	2.6 %	0.2 %	0.6 %	0.8 %	1.0 %	1.0 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5006 ppm	105.1773 %	101.3762 %	102.5095 %	105.0588 %	101.2788 %	103.2539 %
Concentration per Run 1	0.5026 ppm	104.1529 %	101.2545 %	103.4644 %	103.8641 %	101.1134 %	104.4433 %
Concentration per Run 2	0.5004 ppm	105.7628 %	101.1400 %	101.4544 %	105.8390 %	100.5971 %	101.9059 %
Concentration per Run 3	0.4988 ppm	105.6162 %	101.7340 %	102.6097 %	105.4733 %	102.1258 %	103.4126 %
Concentration RSD	0.4 %	0.8 %	0.3 %	1.0 %	1.0 %	0.8 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432707-01 WG1935328
Analysis started at: 6/18/2024 3:32:27 PM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0072 ppm	-0.0003 ppm	0.0309 ppm	0.3318 ppm	0.0001 ppm	63.6845 ppm
Concentration per Run 1	0.0001 ppm	-0.0084 ppm	0.0009 ppm	0.0326 ppm	0.3340 ppm	0.0001 ppm	63.9798 ppm
Concentration per Run 2	0.0006 ppm	-0.0021 ppm	-0.0009 ppm	0.0313 ppm	0.3299 ppm	0.0001 ppm	63.6996 ppm
Concentration per Run 3	-0.0002 ppm	-0.0112 ppm	-0.0009 ppm	0.0287 ppm	0.3314 ppm	0.0001 ppm	63.3739 ppm
Concentration RSD	263.8 %	64.5 %	330.6 %	6.3 %	0.6 %	16.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0104 ppm	0.0071 ppm	1.6815 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	-0.0002 ppm	0.0103 ppm	0.0084 ppm	1.6968 ppm	0.0005 ppm
Concentration per Run 2	-0.0002 ppm	-0.0009 ppm	0.0005 ppm	0.0106 ppm	0.0075 ppm	1.6733 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0103 ppm	0.0054 ppm	1.6744 ppm	0.0018 ppm
Concentration RSD	335.3 %	2,060.5 %	234.1 %	1.9 %	21.8 %	0.8 %	133.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.6095 ppm	0.1994 ppm	0.0068 ppm	7.1876 ppm	0.0003 ppm	-0.0003 ppm	0.0050 ppm
Concentration per Run 1	8.6861 ppm	0.2005 ppm	0.0070 ppm	7.2572 ppm	-0.0006 ppm	0.0002 ppm	0.0044 ppm
Concentration per Run 2	8.5764 ppm	0.2000 ppm	0.0069 ppm	7.1790 ppm	0.0002 ppm	0.0002 ppm	0.0054 ppm
Concentration per Run 3	8.5659 ppm	0.1977 ppm	0.0065 ppm	7.1267 ppm	0.0014 ppm	-0.0013 ppm	0.0051 ppm
Concentration RSD	0.8 %	0.7 %	4.2 %	0.9 %	330.9 %	259.5 %	10.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	5.8739 ppm	0.0044 ppm	0.7481 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0015 ppm	5.9271 ppm	0.0039 ppm	0.7538 ppm	0.0006 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0040 ppm	5.8744 ppm	0.0039 ppm	0.7461 ppm	0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0008 ppm	5.8201 ppm	0.0055 ppm	0.7445 ppm	0.0007 ppm	0.0005 ppm	0.0003 ppm
Concentration RSD	81.7 %	0.9 %	20.6 %	0.7 %	10.6 %	2,710.5 %	541.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0069 ppm	103.8025 %	104.6292 %	100.7484 %	105.8796 %	106.4018 %	105.1110 %
Concentration per Run 1	0.0069 ppm	102.6920 %	104.3464 %	100.4094 %	104.8598 %	106.2854 %	104.9783 %
Concentration per Run 2	0.0068 ppm	104.2296 %	104.8172 %	101.0678 %	106.4351 %	106.6044 %	105.1724 %
Concentration per Run 3	0.0069 ppm	104.4859 %	104.7242 %	100.7680 %	106.3441 %	106.3157 %	105.1824 %
Concentration RSD	1.2 %	0.9 %	0.2 %	0.3 %	0.8 %	0.2 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432868-01 WG1935328
Analysis started at: 6/18/2024 3:35:55 PM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0046 ppm	-0.0005 ppm	0.0134 ppm	0.0158 ppm	0.0000 ppm	21.9920 ppm
Concentration per Run 1	0.0003 ppm	-0.0039 ppm	-0.0013 ppm	0.0135 ppm	0.0158 ppm	0.0000 ppm	21.9640 ppm
Concentration per Run 2	0.0001 ppm	-0.0031 ppm	0.0017 ppm	0.0126 ppm	0.0158 ppm	0.0000 ppm	22.0029 ppm
Concentration per Run 3	-0.0002 ppm	-0.0067 ppm	-0.0019 ppm	0.0141 ppm	0.0157 ppm	0.0000 ppm	22.0091 ppm
Concentration RSD	402.7 %	41.2 %	383.0 %	5.6 %	0.4 %	217.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	0.0002 ppm	0.0025 ppm	0.0042 ppm	29.4738 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0028 ppm	0.0028 ppm	29.4036 ppm	0.0018 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	0.0002 ppm	0.0020 ppm	0.0035 ppm	29.6035 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	0.0000 ppm	0.0027 ppm	0.0063 ppm	29.4143 ppm	0.0024 ppm
Concentration RSD	16,426.8 %	72.8 %	85.4 %	17.5 %	44.1 %	0.4 %	54.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.1827 ppm	0.0022 ppm	0.0002 ppm	58.5263 ppm	0.0029 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	4.1894 ppm	0.0021 ppm	0.0001 ppm	58.3644 ppm	0.0032 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	4.1669 ppm	0.0023 ppm	0.0003 ppm	58.7249 ppm	0.0030 ppm	-0.0003 ppm	0.0013 ppm
Concentration per Run 3	4.1919 ppm	0.0022 ppm	0.0002 ppm	58.4896 ppm	0.0024 ppm	0.0009 ppm	-0.0006 ppm
Concentration RSD	0.3 %	5.3 %	49.6 %	0.3 %	15.1 %	427.0 %	223.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	7.3216 ppm	0.0004 ppm	0.1604 ppm	0.0003 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 1	-0.0022 ppm	7.3254 ppm	-0.0003 ppm	0.1601 ppm	0.0005 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 2	-0.0016 ppm	7.3002 ppm	0.0016 ppm	0.1608 ppm	0.0004 ppm	-0.0014 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	7.3393 ppm	0.0000 ppm	0.1602 ppm	0.0002 ppm	0.0016 ppm	-0.0003 ppm
Concentration RSD	86.9 %	0.3 %	262.4 %	0.3 %	50.3 %	266.8 %	20.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0035 ppm	104.1656 %	104.7035 %	99.7017 %	104.1643 %	104.3874 %	103.0646 %
Concentration per Run 1	0.0034 ppm	104.6089 %	104.1061 %	99.5931 %	105.3087 %	104.3782 %	102.9697 %
Concentration per Run 2	0.0036 ppm	104.6940 %	104.4430 %	99.8418 %	104.6096 %	104.0529 %	103.6393 %
Concentration per Run 3	0.0036 ppm	103.1939 %	105.5615 %	99.6702 %	102.5747 %	104.7311 %	102.5847 %
Concentration RSD	2.6 %	0.8 %	0.7 %	0.1 %	1.4 %	0.3 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-3 WG1935328
Analysis started at: 6/18/2024 3:39:22 PM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0497 ppm	1.9432 ppm	0.1242 ppm	1.0237 ppm	1.9719 ppm	0.0505 ppm	32.2236 ppm
Concentration per Run 1	0.0499 ppm	1.9485 ppm	0.1234 ppm	1.0259 ppm	1.9653 ppm	0.0503 ppm	32.1923 ppm
Concentration per Run 2	0.0492 ppm	1.9355 ppm	0.1246 ppm	1.0124 ppm	1.9688 ppm	0.0505 ppm	32.1163 ppm
Concentration per Run 3	0.0500 ppm	1.9455 ppm	0.1245 ppm	1.0327 ppm	1.9816 ppm	0.0505 ppm	32.3621 ppm
Concentration RSD	0.9 %	0.4 %	0.6 %	1.0 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0530 ppm	0.4884 ppm	0.1927 ppm	0.2495 ppm	0.9919 ppm	40.4642 ppm	0.0019 ppm
Concentration per Run 1	0.0526 ppm	0.4866 ppm	0.1931 ppm	0.2498 ppm	0.9877 ppm	40.4966 ppm	0.0022 ppm
Concentration per Run 2	0.0529 ppm	0.4873 ppm	0.1910 ppm	0.2481 ppm	0.9909 ppm	40.1114 ppm	0.0013 ppm
Concentration per Run 3	0.0535 ppm	0.4911 ppm	0.1939 ppm	0.2505 ppm	0.9972 ppm	40.7847 ppm	0.0022 ppm
Concentration RSD	0.9 %	0.5 %	0.8 %	0.5 %	0.5 %	0.8 %	26.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.0411 ppm	0.4931 ppm	0.8200 ppm	69.8045 ppm	0.4867 ppm	0.5324 ppm	0.4181 ppm
Concentration per Run 1	13.9848 ppm	0.4910 ppm	0.7981 ppm	69.5378 ppm	0.4859 ppm	0.5343 ppm	0.4113 ppm
Concentration per Run 2	13.9717 ppm	0.4934 ppm	0.8180 ppm	69.6398 ppm	0.4836 ppm	0.5322 ppm	0.4166 ppm
Concentration per Run 3	14.1668 ppm	0.4951 ppm	0.8441 ppm	70.2358 ppm	0.4907 ppm	0.5307 ppm	0.4263 ppm
Concentration RSD	0.8 %	0.4 %	2.8 %	0.5 %	0.7 %	0.3 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1275 ppm	8.6323 ppm	0.9583 ppm	1.1248 ppm	1.0038 ppm	0.1196 ppm	0.4978 ppm
Concentration per Run 1	0.1258 ppm	8.6210 ppm	0.9518 ppm	1.1213 ppm	1.0007 ppm	0.1205 ppm	0.4962 ppm
Concentration per Run 2	0.1297 ppm	8.5612 ppm	0.9505 ppm	1.1247 ppm	0.9970 ppm	0.1212 ppm	0.4967 ppm
Concentration per Run 3	0.1269 ppm	8.7148 ppm	0.9727 ppm	1.1283 ppm	1.0138 ppm	0.1171 ppm	0.5004 ppm
Concentration RSD	1.6 %	0.9 %	1.3 %	0.3 %	0.9 %	1.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5090 ppm	102.2852 %	104.3777 %	98.8354 %	101.2465 %	103.6241 %	102.5318 %
Concentration per Run 1	0.5090 ppm	102.9361 %	104.5964 %	97.9075 %	102.3214 %	104.2662 %	101.6961 %
Concentration per Run 2	0.5057 ppm	102.5364 %	104.7989 %	99.6469 %	101.4331 %	103.8053 %	103.2385 %
Concentration per Run 3	0.5123 ppm	101.3829 %	103.7379 %	98.9517 %	99.9851 %	102.8007 %	102.6606 %
Concentration RSD	0.6 %	0.8 %	0.5 %	0.9 %	1.2 %	0.7 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-4 WG1935328
Analysis started at: 6/18/2024 3:42:50 PM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0042 ppm	-0.0002 ppm	0.0150 ppm	0.0156 ppm	0.0000 ppm	21.8315 ppm
Concentration per Run 1	-0.0002 ppm	-0.0031 ppm	-0.0009 ppm	0.0159 ppm	0.0154 ppm	0.0000 ppm	21.6985 ppm
Concentration per Run 2	-0.0001 ppm	-0.0021 ppm	-0.0010 ppm	0.0142 ppm	0.0157 ppm	0.0000 ppm	21.9168 ppm
Concentration per Run 3	-0.0003 ppm	-0.0073 ppm	0.0013 ppm	0.0150 ppm	0.0157 ppm	0.0000 ppm	21.8793 ppm
Concentration RSD	47.4 %	65.9 %	629.7 %	5.8 %	1.2 %	767.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0006 ppm	0.0007 ppm	0.0031 ppm	0.0047 ppm	29.5142 ppm	0.0019 ppm
Concentration per Run 1	-0.0002 ppm	-0.0007 ppm	0.0006 ppm	0.0032 ppm	0.0020 ppm	29.5825 ppm	0.0023 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0027 ppm	0.0065 ppm	29.5913 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0006 ppm	0.0032 ppm	0.0057 ppm	29.3689 ppm	0.0011 ppm
Concentration RSD	244.3 %	28.0 %	21.3 %	8.9 %	50.4 %	0.4 %	34.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.1903 ppm	0.0024 ppm	0.0067 ppm	58.3898 ppm	0.0029 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	4.2236 ppm	0.0022 ppm	0.0073 ppm	58.5594 ppm	0.0035 ppm	0.0011 ppm	0.0044 ppm
Concentration per Run 2	4.1938 ppm	0.0024 ppm	0.0067 ppm	58.4483 ppm	0.0030 ppm	0.0003 ppm	-0.0021 ppm
Concentration per Run 3	4.1536 ppm	0.0026 ppm	0.0063 ppm	58.1617 ppm	0.0021 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	0.8 %	7.2 %	7.6 %	0.4 %	25.5 %	643.0 %	463.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	7.3108 ppm	0.0070 ppm	0.1607 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0017 ppm	7.3206 ppm	0.0067 ppm	0.1606 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0004 ppm	7.3274 ppm	0.0073 ppm	0.1616 ppm	0.0010 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0009 ppm	7.2845 ppm	0.0069 ppm	0.1599 ppm	0.0007 ppm	-0.0010 ppm	-0.0001 ppm
Concentration RSD	63.2 %	0.3 %	4.8 %	0.5 %	36.1 %	82.1 %	238.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0032 ppm	103.8489 %	104.5037 %	100.1614 %	103.4120 %	103.5210 %	103.2949 %
Concentration per Run 1	0.0031 ppm	102.9209 %	105.4851 %	100.1620 %	102.6160 %	104.0012 %	103.6608 %
Concentration per Run 2	0.0033 ppm	104.3556 %	103.2218 %	100.2198 %	103.9699 %	102.3941 %	103.2707 %
Concentration per Run 3	0.0033 ppm	104.2701 %	104.8040 %	100.1024 %	103.6500 %	104.1677 %	102.9531 %
Concentration RSD	3.2 %	0.8 %	1.1 %	0.1 %	0.7 %	0.9 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-5 WG1935328
Analysis started at: 6/18/2024 3:46:17 PM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0458 ppm	1.8173 ppm	0.1151 ppm	0.9568 ppm	1.8384 ppm	0.0473 ppm	30.7438 ppm
Concentration per Run 1	0.0464 ppm	1.8171 ppm	0.1149 ppm	0.9546 ppm	1.8305 ppm	0.0472 ppm	30.7819 ppm
Concentration per Run 2	0.0455 ppm	1.8120 ppm	0.1154 ppm	0.9624 ppm	1.8396 ppm	0.0473 ppm	30.6180 ppm
Concentration per Run 3	0.0456 ppm	1.8229 ppm	0.1149 ppm	0.9533 ppm	1.8450 ppm	0.0473 ppm	30.8315 ppm
Concentration RSD	1.0 %	0.3 %	0.3 %	0.5 %	0.4 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0494 ppm	0.4543 ppm	0.1794 ppm	0.2318 ppm	0.9271 ppm	38.3001 ppm	0.0017 ppm
Concentration per Run 1	0.0491 ppm	0.4524 ppm	0.1804 ppm	0.2323 ppm	0.9249 ppm	38.1066 ppm	0.0015 ppm
Concentration per Run 2	0.0499 ppm	0.4578 ppm	0.1798 ppm	0.2324 ppm	0.9254 ppm	38.3454 ppm	0.0021 ppm
Concentration per Run 3	0.0492 ppm	0.4526 ppm	0.1780 ppm	0.2309 ppm	0.9311 ppm	38.4482 ppm	0.0014 ppm
Concentration RSD	0.9 %	0.7 %	0.7 %	0.4 %	0.4 %	0.5 %	24.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.1517 ppm	0.4601 ppm	0.7674 ppm	66.1660 ppm	0.4524 ppm	0.5002 ppm	0.3393 ppm
Concentration per Run 1	13.1783 ppm	0.4596 ppm	0.7507 ppm	66.2658 ppm	0.4506 ppm	0.4968 ppm	0.3280 ppm
Concentration per Run 2	13.1906 ppm	0.4592 ppm	0.7699 ppm	65.8705 ppm	0.4539 ppm	0.5022 ppm	0.3390 ppm
Concentration per Run 3	13.0863 ppm	0.4615 ppm	0.7814 ppm	66.3618 ppm	0.4526 ppm	0.5016 ppm	0.3509 ppm
Concentration RSD	0.4 %	0.3 %	2.0 %	0.4 %	0.4 %	0.6 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1169 ppm	8.0087 ppm	0.9095 ppm	1.0647 ppm	0.9418 ppm	0.1126 ppm	0.4607 ppm
Concentration per Run 1	0.1163 ppm	8.0374 ppm	0.9041 ppm	1.0609 ppm	0.9415 ppm	0.1140 ppm	0.4609 ppm
Concentration per Run 2	0.1167 ppm	8.0282 ppm	0.9145 ppm	1.0657 ppm	0.9426 ppm	0.1128 ppm	0.4624 ppm
Concentration per Run 3	0.1176 ppm	7.9607 ppm	0.9100 ppm	1.0674 ppm	0.9415 ppm	0.1109 ppm	0.4587 ppm
Concentration RSD	0.6 %	0.5 %	0.6 %	0.3 %	0.1 %	1.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4736 ppm	104.3508 %	104.8313 %	100.8713 %	103.7394 %	104.2811 %	104.3109 %
Concentration per Run 1	0.4737 ppm	104.7898 %	104.7743 %	101.4503 %	104.0982 %	104.0621 %	104.7699 %
Concentration per Run 2	0.4747 ppm	103.9807 %	105.0534 %	100.0414 %	103.5234 %	104.4560 %	103.7216 %
Concentration per Run 3	0.4725 ppm	104.2818 %	104.6661 %	101.1223 %	103.5967 %	104.3252 %	104.4411 %
Concentration RSD	0.2 %	0.4 %	0.2 %	0.7 %	0.3 %	0.2 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935328-6D5 WG1935328
Analysis started at: 6/18/2024 3:49:45 PM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0081 ppm	-0.0008 ppm	0.0031 ppm	0.0030 ppm	0.0000 ppm	4.3236 ppm
Concentration per Run 1	-0.0004 ppm	-0.0129 ppm	-0.0002 ppm	0.0036 ppm	0.0029 ppm	0.0000 ppm	4.2885 ppm
Concentration per Run 2	0.0000 ppm	-0.0057 ppm	-0.0014 ppm	0.0033 ppm	0.0030 ppm	0.0000 ppm	4.3238 ppm
Concentration per Run 3	-0.0001 ppm	-0.0056 ppm	-0.0009 ppm	0.0022 ppm	0.0030 ppm	0.0000 ppm	4.3584 ppm
Concentration RSD	130.9 %	52.0 %	72.9 %	23.5 %	2.6 %	253.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0012 ppm	0.0015 ppm	5.7212 ppm	-0.0006 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0025 ppm	5.6545 ppm	-0.0015 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0016 ppm	0.0013 ppm	5.7364 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	0.0009 ppm	0.0007 ppm	5.7728 ppm	0.0000 ppm
Concentration RSD	14,512.0 %	43.8 %	303.5 %	28.7 %	61.0 %	1.1 %	153.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.8437 ppm	0.0007 ppm	0.0075 ppm	11.5884 ppm	0.0000 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 1	0.8402 ppm	0.0008 ppm	0.0075 ppm	11.4945 ppm	-0.0004 ppm	0.0007 ppm	0.0068 ppm
Concentration per Run 2	0.8453 ppm	0.0007 ppm	0.0075 ppm	11.6644 ppm	-0.0004 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 3	0.8457 ppm	0.0006 ppm	0.0073 ppm	11.6064 ppm	0.0007 ppm	-0.0004 ppm	0.0046 ppm
Concentration RSD	0.4 %	17.0 %	1.7 %	0.7 %	4,261.0 %	1,749.5 %	70.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.4480 ppm	0.0162 ppm	0.0313 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	1.4333 ppm	0.0175 ppm	0.0310 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	1.4550 ppm	0.0161 ppm	0.0312 ppm	0.0010 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	1.4556 ppm	0.0148 ppm	0.0316 ppm	0.0011 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	248.1 %	0.9 %	8.4 %	1.1 %	38.9 %	1,197.7 %	109.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	104.5850 %	105.5496 %	104.6840 %	104.2257 %	105.3057 %	104.8003 %
Concentration per Run 1	0.0015 ppm	105.1033 %	106.5856 %	105.3167 %	104.9705 %	106.4905 %	105.6807 %
Concentration per Run 2	0.0014 ppm	104.7951 %	105.5195 %	103.9260 %	104.4478 %	105.3225 %	103.7531 %
Concentration per Run 3	0.0013 ppm	103.8566 %	104.5435 %	104.8094 %	103.2589 %	104.1040 %	104.9672 %
Concentration RSD	7.1 %	0.6 %	1.0 %	0.7 %	0.8 %	1.1 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 3:53:13 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5038 ppm	0.4691 ppm	0.4596 ppm	0.4971 ppm	0.4801 ppm	0.4955 ppm	0.4725 ppm
Concentration per Run 1	0.5198 ppm	0.4700 ppm	0.4562 ppm	0.5097 ppm	0.4836 ppm	0.4987 ppm	0.4803 ppm
Concentration per Run 2	0.4996 ppm	0.4668 ppm	0.4576 ppm	0.4965 ppm	0.4734 ppm	0.4893 ppm	0.4686 ppm
Concentration per Run 3	0.4921 ppm	0.4703 ppm	0.4651 ppm	0.4852 ppm	0.4834 ppm	0.4985 ppm	0.4687 ppm
Recovery Percentage 1	100.764 %	93.810 %	91.921 %	99.429 %	96.022 %	99.099 %	94.505 %
Concentration RSD	2.8 %	0.4 %	1.0 %	2.5 %	1.2 %	1.1 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5048 ppm	0.5163 ppm	0.4923 ppm	0.5015 ppm	0.4923 ppm	4.9657 ppm	0.4795 ppm
Concentration per Run 1	0.5258 ppm	0.5370 ppm	0.5070 ppm	0.5181 ppm	0.4969 ppm	5.0304 ppm	0.4856 ppm
Concentration per Run 2	0.4968 ppm	0.5094 ppm	0.4882 ppm	0.4998 ppm	0.4851 ppm	4.8790 ppm	0.4729 ppm
Concentration per Run 3	0.4918 ppm	0.5026 ppm	0.4817 ppm	0.4866 ppm	0.4949 ppm	4.9877 ppm	0.4801 ppm
Recovery Percentage 1	100.962 %	103.265 %	98.462 %	100.303 %	98.462 %	99.314 %	95.908 %
Concentration RSD	3.6 %	3.5 %	2.7 %	3.2 %	1.3 %	1.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4892 ppm	0.4734 ppm	0.5044 ppm	9.5600 ppm	0.5047 ppm	0.4874 ppm	0.5113 ppm
Concentration per Run 1	0.5040 ppm	0.4768 ppm	0.5168 ppm	9.6713 ppm	0.5197 ppm	0.4835 ppm	0.5257 ppm
Concentration per Run 2	0.4867 ppm	0.4700 ppm	0.4997 ppm	9.4174 ppm	0.4992 ppm	0.4872 ppm	0.5075 ppm
Concentration per Run 3	0.4769 ppm	0.4736 ppm	0.4967 ppm	9.5914 ppm	0.4951 ppm	0.4915 ppm	0.5008 ppm
Recovery Percentage 1	97.836 %	94.687 %	100.878 %	95.600 %	100.930 %	97.475 %	102.266 %
Concentration RSD	2.8 %	0.7 %	2.1 %	1.4 %	2.6 %	0.8 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4767 ppm	5.6508 ppm	0.5321 ppm	0.4873 ppm	0.5003 ppm	0.4887 ppm	0.4914 ppm
Concentration per Run 1	0.4716 ppm	5.8162 ppm	0.5500 ppm	0.4904 ppm	0.5159 ppm	0.4862 ppm	0.5069 ppm
Concentration per Run 2	0.4791 ppm	5.6299 ppm	0.5277 ppm	0.4804 ppm	0.4959 ppm	0.4887 ppm	0.4877 ppm
Concentration per Run 3	0.4793 ppm	5.5063 ppm	0.5186 ppm	0.4910 ppm	0.4892 ppm	0.4913 ppm	0.4796 ppm
Recovery Percentage 1	95.337 %	107.634 %	106.416 %	97.455 %	100.068 %	97.744 %	98.277 %
Concentration RSD	0.9 %	2.8 %	3.0 %	1.2 %	2.8 %	0.5 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5060 ppm	103.0572 %	104.4559 %	103.9776 %	102.6181 %	104.2603 %	104.3529 %
Concentration per Run 1	0.5218 ppm	99.7290 %	103.6264 %	105.0992 %	98.6683 %	103.5276 %	105.2665 %
Concentration per Run 2	0.5010 ppm	103.8980 %	105.4221 %	103.9662 %	104.0333 %	105.1731 %	104.5462 %
Concentration per Run 3	0.4951 ppm	105.5447 %	104.3193 %	102.8673 %	105.1526 %	104.0800 %	103.2459 %
Recovery Percentage 1	101.194 %						
Concentration RSD	2.8 %	2.9 %	0.9 %	1.1 %	3.4 %	0.8 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 3:56:42 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0087 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	0.0004 ppm	0.0038 ppm
Concentration per Run 1	0.0001 ppm	-0.0094 ppm	0.0020 ppm	0.0019 ppm	0.0002 ppm	0.0004 ppm	0.0062 ppm
Concentration per Run 2	0.0006 ppm	-0.0094 ppm	-0.0020 ppm	0.0018 ppm	0.0001 ppm	0.0004 ppm	0.0058 ppm
Concentration per Run 3	0.0003 ppm	-0.0073 ppm	-0.0005 ppm	-0.0008 ppm	0.0002 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	4.798 %	-8.696 %	-2.994 %	3.276 %	1.560 %	9.790 %	3.779 %
Concentration RSD	85.3 %	14.0 %	1,325.6 %	153.4 %	48.2 %	4.5 %	101.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0000 ppm	-0.0073 ppm	-0.0013 ppm
Concentration per Run 1	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0007 ppm	-0.0006 ppm	-0.0128 ppm	-0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0013 ppm	0.0000 ppm	-0.0026 ppm	-0.0020 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0013 ppm	0.0005 ppm	-0.0065 ppm	-0.0011 ppm
Recovery Percentage 1	5.553 %	1.149 %	3.145 %	10.994 %	-0.052 %	-0.292 %	-25.667 %
Concentration RSD	11.7 %	109.0 %	75.4 %	31.3 %	2,026.3 %	70.7 %	46.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0022 ppm	0.0075 ppm	0.0003 ppm	0.0004 ppm	0.0034 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0019 ppm	0.0066 ppm	0.0007 ppm	0.0005 ppm	0.0028 ppm
Concentration per Run 2	0.0008 ppm	0.0004 ppm	0.0022 ppm	0.0078 ppm	-0.0004 ppm	0.0006 ppm	0.0075 ppm
Concentration per Run 3	-0.0004 ppm	0.0006 ppm	0.0023 ppm	0.0082 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-0.093 %	4.291 %	4.334 %	0.376 %	1.258 %	3.739 %	6.832 %
Concentration RSD	875.7 %	31.3 %	9.8 %	11.4 %	206.7 %	92.0 %	110.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.0032 ppm	0.0028 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0025 ppm	0.0019 ppm	0.0023 ppm	0.0004 ppm	0.0009 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 2	0.0016 ppm	0.0031 ppm	0.0028 ppm	0.0004 ppm	0.0006 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	0.0018 ppm	0.0047 ppm	0.0034 ppm	0.0004 ppm	0.0007 ppm	-0.0013 ppm	0.0003 ppm
Recovery Percentage 1	19.595 %	0.642 %	5.684 %	3.793 %	7.413 %	0.454 %	4.442 %
Concentration RSD	24.5 %	44.3 %	18.7 %	3.8 %	20.3 %	1,367.2 %	39.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	105.2550 %	102.4219 %	106.6306 %	106.4125 %	103.2315 %	106.6344 %
Concentration per Run 1	0.0003 ppm	105.5797 %	102.7896 %	106.4155 %	106.5262 %	103.5233 %	106.7396 %
Concentration per Run 2	0.0004 ppm	105.7695 %	102.9978 %	106.9881 %	106.8159 %	103.6861 %	106.7629 %
Concentration per Run 3	0.0002 ppm	104.4158 %	101.4784 %	106.4882 %	105.8955 %	102.4850 %	106.4006 %
Recovery Percentage 1	6.136 %						
Concentration RSD	33.0 %	0.7 %	0.8 %	0.3 %	0.4 %	0.6 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-1 WG1935323
Analysis started at: 6/18/2024 4:13:47 PM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0122 ppm	-0.0006 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0002 ppm	-0.0181 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0001 ppm	-0.0086 ppm	0.0014 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0098 ppm	-0.0028 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0040 ppm
Recovery Percentage 1	1.192 %	-12.181 %	-12.362 %	1.578 %	-2.469 %	0.048 %	3.715 %
Concentration RSD	94.4 %	42.7 %	345.9 %	175.0 %	2.9 %	2,321.8 %	10.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0007 ppm	-0.0114 ppm	-0.0020 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0002 ppm	-0.0193 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0015 ppm	-0.0008 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0141 ppm	-0.0017 ppm
Recovery Percentage 1	0.608 %	-1.756 %	-2.117 %	5.101 %	1.371 %	-0.457 %	-39.526 %
Concentration RSD	347.3 %	98.0 %	124.8 %	42.3 %	106.5 %	83.7 %	13.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0001 ppm	0.0001 ppm	-0.0031 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0022 ppm	0.0002 ppm	0.0001 ppm	-0.0018 ppm	-0.0009 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0030 ppm	-0.0001 ppm	0.0001 ppm	-0.0060 ppm	-0.0006 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 3	0.0030 ppm	0.0002 ppm	0.0001 ppm	-0.0016 ppm	-0.0004 ppm	0.0010 ppm	0.0024 ppm
Recovery Percentage 1	2.758 %	0.966 %	0.155 %	-0.157 %	-2.539 %	1.997 %	-0.154 %
Concentration RSD	16.2 %	150.9 %	23.2 %	79.3 %	41.8 %	380.6 %	2,826.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0015 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0016 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	-0.0013 ppm	-0.0004 ppm	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0028 ppm	-0.0025 ppm	0.0013 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0003 ppm
Recovery Percentage 1	-13.894 %	-0.299 %	1.512 %	-0.298 %	0.790 %	-0.698 %	0.184 %
Concentration RSD	100.6 %	70.2 %	106.9 %	286.9 %	170.3 %	186.3 %	1,739.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	102.8678 %	103.1577 %	104.4243 %	102.2272 %	103.6802 %	102.4001 %
Concentration per Run 1	0.0008 ppm	101.6893 %	101.9234 %	105.0700 %	100.7661 %	102.2527 %	103.1195 %
Concentration per Run 2	0.0005 ppm	102.9060 %	102.3740 %	103.5832 %	102.6180 %	102.5351 %	101.5393 %
Concentration per Run 3	0.0003 ppm	104.0080 %	105.1756 %	104.6196 %	103.2975 %	106.2530 %	102.5413 %
Recovery Percentage 1	10.269 %						
Concentration RSD	50.5 %	1.1 %	1.7 %	0.7 %	1.3 %	2.2 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-2 WG1935323
Analysis started at: 6/18/2024 4:17:28 PM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0488 ppm	1.8417 ppm	0.1113 ppm	0.9477 ppm	1.8594 ppm	0.0476 ppm	9.5036 ppm
Concentration per Run 1	0.0486 ppm	1.8351 ppm	0.1124 ppm	0.9529 ppm	1.8473 ppm	0.0474 ppm	9.4472 ppm
Concentration per Run 2	0.0493 ppm	1.8632 ppm	0.1114 ppm	0.9529 ppm	1.8738 ppm	0.0478 ppm	9.5801 ppm
Concentration per Run 3	0.0484 ppm	1.8267 ppm	0.1101 ppm	0.9374 ppm	1.8571 ppm	0.0475 ppm	9.4833 ppm
Concentration RSD	1.0 %	1.0 %	1.0 %	0.9 %	0.7 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0513 ppm	0.4760 ppm	0.1856 ppm	0.2391 ppm	0.9486 ppm	9.8146 ppm	-0.0021 ppm
Concentration per Run 1	0.0519 ppm	0.4818 ppm	0.1864 ppm	0.2410 ppm	0.9452 ppm	9.8103 ppm	-0.0021 ppm
Concentration per Run 2	0.0512 ppm	0.4752 ppm	0.1875 ppm	0.2396 ppm	0.9515 ppm	9.8709 ppm	-0.0027 ppm
Concentration per Run 3	0.0509 ppm	0.4711 ppm	0.1830 ppm	0.2368 ppm	0.9491 ppm	9.7628 ppm	-0.0013 ppm
Concentration RSD	0.9 %	1.1 %	1.3 %	0.9 %	0.3 %	0.6 %	35.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5815 ppm	0.4676 ppm	0.8419 ppm	9.7645 ppm	0.4747 ppm	0.5042 ppm	0.3998 ppm
Concentration per Run 1	9.6815 ppm	0.4653 ppm	0.8331 ppm	9.6936 ppm	0.4756 ppm	0.5058 ppm	0.3969 ppm
Concentration per Run 2	9.6003 ppm	0.4715 ppm	0.8449 ppm	9.8569 ppm	0.4779 ppm	0.5087 ppm	0.4038 ppm
Concentration per Run 3	9.4628 ppm	0.4660 ppm	0.8477 ppm	9.7430 ppm	0.4705 ppm	0.4980 ppm	0.3986 ppm
Concentration RSD	1.2 %	0.7 %	0.9 %	0.9 %	0.8 %	1.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1137 ppm	0.9640 ppm	0.9368 ppm	0.9159 ppm	0.9601 ppm	0.1142 ppm	0.4723 ppm
Concentration per Run 1	0.1127 ppm	0.9707 ppm	0.9379 ppm	0.9112 ppm	0.9650 ppm	0.1137 ppm	0.4761 ppm
Concentration per Run 2	0.1157 ppm	0.9693 ppm	0.9439 ppm	0.9206 ppm	0.9658 ppm	0.1148 ppm	0.4736 ppm
Concentration per Run 3	0.1127 ppm	0.9519 ppm	0.9286 ppm	0.9159 ppm	0.9494 ppm	0.1143 ppm	0.4673 ppm
Concentration RSD	1.5 %	1.1 %	0.8 %	0.5 %	1.0 %	0.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4791 ppm	104.0139 %	104.0444 %	103.9882 %	103.7329 %	103.7428 %	103.9217 %
Concentration per Run 1	0.4824 ppm	103.1898 %	103.9986 %	103.8182 %	102.9051 %	103.8064 %	104.2674 %
Concentration per Run 2	0.4827 ppm	103.5923 %	104.8265 %	103.4414 %	103.1793 %	104.6500 %	103.3297 %
Concentration per Run 3	0.4723 ppm	105.2597 %	103.3082 %	104.7050 %	105.1144 %	102.7721 %	104.1679 %
Concentration RSD	1.2 %	1.1 %	0.7 %	0.6 %	1.2 %	0.9 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-01 WG1935323
Analysis started at: 6/18/2024 4:20:57 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0421 ppm	0.0005 ppm	0.0073 ppm	0.0553 ppm	0.0001 ppm	8.5213 ppm
Concentration per Run 1	0.0002 ppm	0.0393 ppm	-0.0007 ppm	0.0065 ppm	0.0550 ppm	0.0001 ppm	8.4615 ppm
Concentration per Run 2	0.0000 ppm	0.0409 ppm	0.0018 ppm	0.0076 ppm	0.0554 ppm	0.0001 ppm	8.5252 ppm
Concentration per Run 3	0.0001 ppm	0.0462 ppm	0.0005 ppm	0.0079 ppm	0.0555 ppm	0.0000 ppm	8.5770 ppm
Concentration RSD	64.7 %	8.6 %	247.8 %	10.7 %	0.4 %	52.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0006 ppm	0.0009 ppm	0.0021 ppm	0.0041 ppm	1.0590 ppm	-0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0008 ppm	0.0009 ppm	0.0020 ppm	0.0029 ppm	1.0507 ppm	-0.0028 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0018 ppm	0.0035 ppm	1.0678 ppm	-0.0002 ppm
Concentration per Run 3	0.0003 ppm	-0.0007 ppm	0.0009 ppm	0.0024 ppm	0.0060 ppm	1.0585 ppm	-0.0010 ppm
Concentration RSD	45.0 %	56.1 %	8.0 %	14.2 %	39.3 %	0.8 %	99.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.6887 ppm	0.1413 ppm	0.0060 ppm	4.2198 ppm	0.0005 ppm	-0.0010 ppm	0.0046 ppm
Concentration per Run 1	3.7010 ppm	0.1405 ppm	0.0059 ppm	4.1839 ppm	0.0002 ppm	-0.0003 ppm	0.0052 ppm
Concentration per Run 2	3.6964 ppm	0.1417 ppm	0.0068 ppm	4.2277 ppm	0.0011 ppm	-0.0010 ppm	0.0036 ppm
Concentration per Run 3	3.6688 ppm	0.1418 ppm	0.0052 ppm	4.2478 ppm	0.0003 ppm	-0.0016 ppm	0.0048 ppm
Concentration RSD	0.5 %	0.5 %	13.0 %	0.8 %	93.6 %	64.2 %	19.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.9790 ppm	0.0056 ppm	0.0435 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0005 ppm	4.9963 ppm	0.0054 ppm	0.0432 ppm	0.0005 ppm	0.0014 ppm	-0.0005 ppm
Concentration per Run 2	-0.0007 ppm	4.9817 ppm	0.0057 ppm	0.0436 ppm	0.0007 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	4.9591 ppm	0.0057 ppm	0.0437 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Concentration RSD	80.9 %	0.4 %	3.5 %	0.6 %	20.4 %	1,382.5 %	110.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	104.9272 %	105.3124 %	106.2674 %	104.9959 %	105.3574 %	106.4547 %
Concentration per Run 1	0.0017 ppm	105.0092 %	106.5203 %	106.5467 %	105.3842 %	106.7390 %	106.6614 %
Concentration per Run 2	0.0021 ppm	104.5602 %	105.5394 %	107.1321 %	104.5315 %	105.2448 %	107.3507 %
Concentration per Run 3	0.0017 ppm	105.2123 %	103.8773 %	105.1235 %	105.0721 %	104.0883 %	105.3520 %
Concentration RSD	10.1 %	0.3 %	1.3 %	1.0 %	0.4 %	1.3 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-02 WG1935323
Analysis started at: 6/18/2024 4:24:24 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0027 ppm	-0.0006 ppm	0.0141 ppm	0.0295 ppm	0.0000 ppm	12.0652 ppm
Concentration per Run 1	-0.0003 ppm	0.0011 ppm	-0.0003 ppm	0.0144 ppm	0.0273 ppm	0.0000 ppm	11.2416 ppm
Concentration per Run 2	-0.0002 ppm	0.0006 ppm	0.0013 ppm	0.0133 ppm	0.0314 ppm	0.0000 ppm	12.7313 ppm
Concentration per Run 3	-0.0004 ppm	-0.0098 ppm	-0.0028 ppm	0.0146 ppm	0.0299 ppm	0.0000 ppm	12.2228 ppm
Concentration RSD	21.3 %	229.0 %	341.5 %	5.1 %	7.0 %	1,087.2 %	6.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0020 ppm	0.0018 ppm	0.0078 ppm	1.1364 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0018 ppm	0.0015 ppm	0.0071 ppm	1.0798 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0025 ppm	0.0019 ppm	0.0078 ppm	1.1828 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0016 ppm	0.0018 ppm	0.0085 ppm	1.1466 ppm	0.0007 ppm
Concentration RSD	200.6 %	290.2 %	24.0 %	11.3 %	8.5 %	4.6 %	12.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5929 ppm	0.0008 ppm	0.0001 ppm	16.3930 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	5.5693 ppm	0.0006 ppm	-0.0002 ppm	15.2650 ppm	-0.0001 ppm	-0.0001 ppm	-0.0014 ppm
Concentration per Run 2	5.6228 ppm	0.0009 ppm	0.0001 ppm	17.4240 ppm	0.0008 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	5.5867 ppm	0.0009 ppm	0.0003 ppm	16.4899 ppm	0.0001 ppm	-0.0017 ppm	0.0012 ppm
Concentration RSD	0.5 %	23.6 %	384.2 %	6.6 %	170.8 %	324.0 %	12,919.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	8.3123 ppm	0.0001 ppm	0.0668 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	8.2685 ppm	0.0009 ppm	0.0617 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	8.3428 ppm	0.0002 ppm	0.0708 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	8.3256 ppm	-0.0008 ppm	0.0677 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm
Concentration RSD	191.4 %	0.5 %	765.4 %	6.9 %	95.3 %	773.3 %	673.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	103.7593 %	104.0583 %	101.2739 %	103.7763 %	103.0904 %	102.1836 %
Concentration per Run 1	0.0017 ppm	104.3233 %	110.6099 %	100.5045 %	104.6357 %	107.6997 %	101.3659 %
Concentration per Run 2	0.0015 ppm	103.4654 %	99.5023 %	100.8560 %	103.3985 %	99.4305 %	101.8752 %
Concentration per Run 3	0.0014 ppm	103.4892 %	102.0628 %	102.4611 %	103.2948 %	102.1411 %	103.3096 %
Concentration RSD	9.4 %	0.5 %	5.6 %	1.0 %	0.7 %	4.1 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-04 WG1935323
Analysis started at: 6/18/2024 4:27:52 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0075 ppm	0.0006 ppm	0.0238 ppm	0.0219 ppm	0.0000 ppm	10.2097 ppm
Concentration per Run 1	-0.0001 ppm	-0.0060 ppm	0.0000 ppm	0.0227 ppm	0.0217 ppm	0.0000 ppm	10.1306 ppm
Concentration per Run 2	-0.0001 ppm	-0.0060 ppm	0.0037 ppm	0.0242 ppm	0.0220 ppm	0.0000 ppm	10.2349 ppm
Concentration per Run 3	0.0006 ppm	-0.0104 ppm	-0.0019 ppm	0.0246 ppm	0.0220 ppm	0.0000 ppm	10.2638 ppm
Concentration RSD	426.4 %	34.1 %	445.6 %	4.2 %	0.8 %	159.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0026 ppm	0.0003 ppm	0.0018 ppm	2.4980 ppm	0.9067 ppm	-0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0030 ppm	0.0001 ppm	0.0018 ppm	2.4762 ppm	0.9042 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0005 ppm	0.0019 ppm	2.5101 ppm	0.9132 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0025 ppm	0.0005 ppm	0.0018 ppm	2.5078 ppm	0.9028 ppm	-0.0006 ppm
Concentration RSD	64.8 %	15.2 %	70.9 %	4.1 %	0.8 %	0.6 %	69.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3741 ppm	0.0402 ppm	-0.0003 ppm	8.3124 ppm	0.0019 ppm	-0.0007 ppm	-0.0006 ppm
Concentration per Run 1	4.3961 ppm	0.0397 ppm	-0.0002 ppm	8.2565 ppm	0.0022 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	4.3687 ppm	0.0404 ppm	-0.0002 ppm	8.3015 ppm	0.0017 ppm	-0.0006 ppm	-0.0014 ppm
Concentration per Run 3	4.3577 ppm	0.0405 ppm	-0.0005 ppm	8.3793 ppm	0.0018 ppm	-0.0003 ppm	-0.0007 ppm
Concentration RSD	0.5 %	1.1 %	60.1 %	0.7 %	12.2 %	54.9 %	114.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	7.5912 ppm	-0.0002 ppm	0.0394 ppm	0.0002 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 1	0.0008 ppm	7.6320 ppm	-0.0002 ppm	0.0389 ppm	0.0001 ppm	-0.0017 ppm	-0.0003 ppm
Concentration per Run 2	-0.0010 ppm	7.6031 ppm	0.0000 ppm	0.0397 ppm	0.0001 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 3	-0.0011 ppm	7.5385 ppm	-0.0003 ppm	0.0396 ppm	0.0004 ppm	-0.0016 ppm	-0.0003 ppm
Concentration RSD	257.7 %	0.6 %	104.4 %	1.1 %	64.7 %	19.0 %	47.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	107.2039 %	104.2394 %	104.3138 %	107.7457 %	103.4331 %	104.2689 %
Concentration per Run 1	0.0058 ppm	107.7694 %	104.7409 %	104.9444 %	108.6200 %	104.5444 %	105.1732 %
Concentration per Run 2	0.0057 ppm	107.3095 %	103.7802 %	103.9751 %	107.7092 %	102.6030 %	104.1937 %
Concentration per Run 3	0.0053 ppm	106.5328 %	104.1972 %	104.0218 %	106.9081 %	103.1521 %	103.4398 %
Concentration RSD	4.2 %	0.6 %	0.5 %	0.5 %	0.8 %	1.0 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-03 WG1935323
Analysis started at: 6/18/2024 4:31:20 PM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0096 ppm	-0.0007 ppm	0.0080 ppm	0.0154 ppm	0.0000 ppm	19.3651 ppm
Concentration per Run 1	-0.0003 ppm	-0.0136 ppm	-0.0017 ppm	0.0092 ppm	0.0156 ppm	0.0000 ppm	19.4086 ppm
Concentration per Run 2	0.0001 ppm	-0.0107 ppm	-0.0020 ppm	0.0067 ppm	0.0154 ppm	0.0000 ppm	19.3672 ppm
Concentration per Run 3	0.0002 ppm	-0.0044 ppm	0.0016 ppm	0.0079 ppm	0.0152 ppm	0.0000 ppm	19.3194 ppm
Concentration RSD	6,911.0 %	49.0 %	273.0 %	15.6 %	1.1 %	123.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0042 ppm	0.8619 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0050 ppm	0.8935 ppm	-0.0015 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.0036 ppm	0.8633 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0039 ppm	0.8290 ppm	-0.0024 ppm
Concentration RSD	162.7 %	201.1 %	121.2 %	10.4 %	18.2 %	3.7 %	47.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8982 ppm	0.0047 ppm	-0.0005 ppm	4.0091 ppm	-0.0002 ppm	0.0004 ppm	-0.0031 ppm
Concentration per Run 1	4.9441 ppm	0.0047 ppm	-0.0002 ppm	4.0271 ppm	0.0001 ppm	0.0006 ppm	-0.0030 ppm
Concentration per Run 2	4.9084 ppm	0.0048 ppm	-0.0009 ppm	4.0150 ppm	-0.0001 ppm	0.0006 ppm	-0.0035 ppm
Concentration per Run 3	4.8421 ppm	0.0046 ppm	-0.0004 ppm	3.9852 ppm	-0.0006 ppm	0.0002 ppm	-0.0029 ppm
Concentration RSD	1.1 %	2.2 %	75.4 %	0.5 %	202.9 %	52.5 %	9.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	3.5507 ppm	-0.0012 ppm	0.0571 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0017 ppm	3.5852 ppm	-0.0015 ppm	0.0575 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0049 ppm	3.5546 ppm	-0.0010 ppm	0.0569 ppm	-0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	3.5122 ppm	-0.0009 ppm	0.0567 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Concentration RSD	251.6 %	1.0 %	29.0 %	0.7 %	143.6 %	64.8 %	6,059.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	104.9167 %	104.3504 %	103.9022 %	105.6512 %	103.9499 %	104.8102 %
Concentration per Run 1	0.0011 ppm	104.2030 %	103.2928 %	103.5727 %	105.0097 %	102.7016 %	104.7725 %
Concentration per Run 2	0.0009 ppm	105.1738 %	104.8025 %	104.0959 %	105.7697 %	104.3094 %	104.9618 %
Concentration per Run 3	0.0009 ppm	105.3732 %	104.9560 %	104.0380 %	106.1742 %	104.8387 %	104.6961 %
Concentration RSD	11.6 %	0.6 %	0.9 %	0.3 %	0.6 %	1.1 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-3 WG1935323
Analysis started at: 6/18/2024 4:34:49 PM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0491 ppm	1.8801 ppm	0.1155 ppm	0.9847 ppm	1.9085 ppm	0.0491 ppm	28.9959 ppm
Concentration per Run 1	0.0485 ppm	1.9015 ppm	0.1159 ppm	0.9791 ppm	1.9215 ppm	0.0494 ppm	29.1773 ppm
Concentration per Run 2	0.0495 ppm	1.8687 ppm	0.1144 ppm	0.9906 ppm	1.9015 ppm	0.0488 ppm	28.8493 ppm
Concentration per Run 3	0.0492 ppm	1.8701 ppm	0.1161 ppm	0.9845 ppm	1.9024 ppm	0.0491 ppm	28.9610 ppm
Concentration RSD	1.0 %	1.0 %	0.8 %	0.6 %	0.6 %	0.6 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0516 ppm	0.4790 ppm	0.1908 ppm	0.2461 ppm	1.0005 ppm	10.7938 ppm	-0.0014 ppm
Concentration per Run 1	0.0511 ppm	0.4770 ppm	0.1904 ppm	0.2451 ppm	1.0058 ppm	10.8620 ppm	-0.0015 ppm
Concentration per Run 2	0.0522 ppm	0.4809 ppm	0.1918 ppm	0.2472 ppm	0.9931 ppm	10.7856 ppm	-0.0024 ppm
Concentration per Run 3	0.0515 ppm	0.4791 ppm	0.1902 ppm	0.2460 ppm	1.0025 ppm	10.7337 ppm	-0.0002 ppm
Concentration RSD	1.1 %	0.4 %	0.4 %	0.4 %	0.7 %	0.6 %	78.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5838 ppm	0.4813 ppm	0.7826 ppm	13.8600 ppm	0.4777 ppm	0.5186 ppm	0.4120 ppm
Concentration per Run 1	14.5408 ppm	0.4864 ppm	0.7609 ppm	13.9785 ppm	0.4768 ppm	0.5224 ppm	0.4013 ppm
Concentration per Run 2	14.6562 ppm	0.4785 ppm	0.7827 ppm	13.7881 ppm	0.4779 ppm	0.5186 ppm	0.4165 ppm
Concentration per Run 3	14.5544 ppm	0.4791 ppm	0.8043 ppm	13.8133 ppm	0.4784 ppm	0.5149 ppm	0.4181 ppm
Concentration RSD	0.4 %	0.9 %	2.8 %	0.7 %	0.2 %	0.7 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1212 ppm	4.6458 ppm	0.9293 ppm	0.9813 ppm	0.9758 ppm	0.1182 ppm	0.4868 ppm
Concentration per Run 1	0.1250 ppm	4.6170 ppm	0.9194 ppm	0.9894 ppm	0.9739 ppm	0.1192 ppm	0.4849 ppm
Concentration per Run 2	0.1201 ppm	4.6760 ppm	0.9351 ppm	0.9769 ppm	0.9827 ppm	0.1194 ppm	0.4893 ppm
Concentration per Run 3	0.1185 ppm	4.6443 ppm	0.9333 ppm	0.9777 ppm	0.9708 ppm	0.1161 ppm	0.4861 ppm
Concentration RSD	2.8 %	0.6 %	0.9 %	0.7 %	0.6 %	1.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4894 ppm	104.1823 %	104.6556 %	102.0723 %	104.3780 %	104.3797 %	103.7193 %
Concentration per Run 1	0.4894 ppm	104.0257 %	103.3167 %	100.7944 %	104.6618 %	102.3283 %	102.0642 %
Concentration per Run 2	0.4898 ppm	104.4012 %	105.5711 %	102.0670 %	104.4246 %	105.4578 %	103.9614 %
Concentration per Run 3	0.4891 ppm	104.1199 %	105.0789 %	103.3554 %	104.0477 %	105.3530 %	105.1322 %
Concentration RSD	0.1 %	0.2 %	1.1 %	1.3 %	0.3 %	1.7 %	1.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-4 WG1935323
Analysis started at: 6/18/2024 4:38:19 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0477 ppm	1.8284 ppm	0.1149 ppm	0.9840 ppm	1.8494 ppm	0.0476 ppm	28.5519 ppm
Concentration per Run 1	0.0480 ppm	1.8459 ppm	0.1154 ppm	0.9840 ppm	1.8542 ppm	0.0478 ppm	28.6921 ppm
Concentration per Run 2	0.0476 ppm	1.8170 ppm	0.1159 ppm	0.9845 ppm	1.8434 ppm	0.0475 ppm	28.3740 ppm
Concentration per Run 3	0.0475 ppm	1.8222 ppm	0.1132 ppm	0.9837 ppm	1.8505 ppm	0.0475 ppm	28.5896 ppm
Concentration RSD	0.5 %	0.8 %	1.2 %	0.0 %	0.3 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0503 ppm	0.4633 ppm	0.1845 ppm	0.2368 ppm	0.9414 ppm	10.7166 ppm	-0.0006 ppm
Concentration per Run 1	0.0506 ppm	0.4669 ppm	0.1850 ppm	0.2379 ppm	0.9458 ppm	10.8148 ppm	0.0003 ppm
Concentration per Run 2	0.0500 ppm	0.4612 ppm	0.1857 ppm	0.2369 ppm	0.9371 ppm	10.6395 ppm	-0.0009 ppm
Concentration per Run 3	0.0502 ppm	0.4619 ppm	0.1828 ppm	0.2357 ppm	0.9414 ppm	10.6954 ppm	-0.0011 ppm
Concentration RSD	0.6 %	0.7 %	0.8 %	0.5 %	0.5 %	0.8 %	138.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.3679 ppm	0.4742 ppm	0.7845 ppm	13.7387 ppm	0.4611 ppm	0.5118 ppm	0.4041 ppm
Concentration per Run 1	14.4225 ppm	0.4757 ppm	0.7703 ppm	13.8268 ppm	0.4626 ppm	0.5079 ppm	0.3968 ppm
Concentration per Run 2	14.3967 ppm	0.4733 ppm	0.7824 ppm	13.6639 ppm	0.4610 ppm	0.5127 ppm	0.4026 ppm
Concentration per Run 3	14.2846 ppm	0.4736 ppm	0.8009 ppm	13.7253 ppm	0.4598 ppm	0.5148 ppm	0.4129 ppm
Concentration RSD	0.5 %	0.3 %	2.0 %	0.6 %	0.3 %	0.7 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1173 ppm	4.5288 ppm	0.9335 ppm	0.9779 ppm	0.9623 ppm	0.1165 ppm	0.4693 ppm
Concentration per Run 1	0.1129 ppm	4.5338 ppm	0.9323 ppm	0.9820 ppm	0.9642 ppm	0.1161 ppm	0.4720 ppm
Concentration per Run 2	0.1198 ppm	4.5389 ppm	0.9369 ppm	0.9752 ppm	0.9653 ppm	0.1171 ppm	0.4683 ppm
Concentration per Run 3	0.1191 ppm	4.5138 ppm	0.9312 ppm	0.9765 ppm	0.9573 ppm	0.1163 ppm	0.4675 ppm
Concentration RSD	3.3 %	0.3 %	0.3 %	0.4 %	0.5 %	0.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4731 ppm	103.9015 %	104.5432 %	102.0136 %	103.9391 %	104.6540 %	103.7061 %
Concentration per Run 1	0.4746 ppm	103.4096 %	104.7006 %	102.7289 %	103.4654 %	105.3252 %	104.3116 %
Concentration per Run 2	0.4748 ppm	104.2113 %	103.9882 %	101.0471 %	104.4450 %	103.4206 %	102.4870 %
Concentration per Run 3	0.4700 ppm	104.0838 %	104.9407 %	102.2649 %	103.9068 %	105.2162 %	104.3198 %
Concentration RSD	0.6 %	0.4 %	0.5 %	0.9 %	0.5 %	1.0 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-5 WG1935323
Analysis started at: 6/18/2024 4:41:49 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0475 ppm	1.8250 ppm	0.1156 ppm	0.9800 ppm	1.8641 ppm	0.0476 ppm	27.9912 ppm
Concentration per Run 1	0.0478 ppm	1.8191 ppm	0.1163 ppm	0.9751 ppm	1.8542 ppm	0.0474 ppm	27.7432 ppm
Concentration per Run 2	0.0471 ppm	1.7712 ppm	0.1168 ppm	0.9848 ppm	1.8020 ppm	0.0460 ppm	27.0212 ppm
Concentration per Run 3	0.0475 ppm	1.8848 ppm	0.1136 ppm	0.9800 ppm	1.9361 ppm	0.0495 ppm	29.2093 ppm
Concentration RSD	0.8 %	3.1 %	1.5 %	0.5 %	3.6 %	3.6 %	4.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0506 ppm	0.4653 ppm	0.1841 ppm	0.2386 ppm	0.9429 ppm	10.6974 ppm	-0.0007 ppm
Concentration per Run 1	0.0501 ppm	0.4627 ppm	0.1831 ppm	0.2370 ppm	0.9408 ppm	10.6524 ppm	0.0004 ppm
Concentration per Run 2	0.0507 ppm	0.4701 ppm	0.1849 ppm	0.2401 ppm	0.9134 ppm	10.3590 ppm	-0.0017 ppm
Concentration per Run 3	0.0508 ppm	0.4632 ppm	0.1844 ppm	0.2386 ppm	0.9744 ppm	11.0810 ppm	-0.0008 ppm
Concentration RSD	0.7 %	0.9 %	0.5 %	0.6 %	3.2 %	3.4 %	161.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.2160 ppm	0.4686 ppm	0.7781 ppm	13.5707 ppm	0.4622 ppm	0.5194 ppm	0.3495 ppm
Concentration per Run 1	14.1373 ppm	0.4678 ppm	0.7527 ppm	13.4943 ppm	0.4609 ppm	0.5238 ppm	0.3403 ppm
Concentration per Run 2	14.3042 ppm	0.4520 ppm	0.7833 ppm	13.1233 ppm	0.4648 ppm	0.5184 ppm	0.3460 ppm
Concentration per Run 3	14.2066 ppm	0.4861 ppm	0.7983 ppm	14.0944 ppm	0.4607 ppm	0.5162 ppm	0.3622 ppm
Concentration RSD	0.6 %	3.6 %	3.0 %	3.6 %	0.5 %	0.8 %	3.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1179 ppm	4.3720 ppm	0.9390 ppm	0.9767 ppm	0.9570 ppm	0.1182 ppm	0.4701 ppm
Concentration per Run 1	0.1212 ppm	4.3426 ppm	0.9263 ppm	0.9728 ppm	0.9491 ppm	0.1185 ppm	0.4667 ppm
Concentration per Run 2	0.1148 ppm	4.4035 ppm	0.9476 ppm	0.9387 ppm	0.9599 ppm	0.1194 ppm	0.4736 ppm
Concentration per Run 3	0.1177 ppm	4.3698 ppm	0.9429 ppm	1.0184 ppm	0.9620 ppm	0.1166 ppm	0.4701 ppm
Concentration RSD	2.7 %	0.7 %	1.2 %	4.1 %	0.7 %	1.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4732 ppm	104.3079 %	103.1716 %	101.0931 %	104.3788 %	102.7203 %	102.9527 %
Concentration per Run 1	0.4696 ppm	105.6129 %	103.3639 %	100.8155 %	105.7865 %	102.8231 %	102.7726 %
Concentration per Run 2	0.4761 ppm	103.7624 %	105.8812 %	100.8318 %	103.6747 %	105.0546 %	102.8736 %
Concentration per Run 3	0.4739 ppm	103.5484 %	100.2697 %	101.6321 %	103.6753 %	100.2833 %	103.2118 %
Concentration RSD	0.7 %	1.1 %	2.7 %	0.5 %	1.2 %	2.3 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935323-6D5 WG1935323
Analysis started at: 6/18/2024 4:45:20 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0074 ppm	0.0016 ppm	0.0027 ppm	0.0030 ppm	0.0000 ppm	3.8385 ppm
Concentration per Run 1	0.0001 ppm	-0.0036 ppm	0.0015 ppm	0.0030 ppm	0.0031 ppm	0.0001 ppm	3.8298 ppm
Concentration per Run 2	0.0001 ppm	-0.0067 ppm	0.0013 ppm	0.0034 ppm	0.0029 ppm	0.0000 ppm	3.8171 ppm
Concentration per Run 3	0.0001 ppm	-0.0119 ppm	0.0021 ppm	0.0016 ppm	0.0029 ppm	0.0000 ppm	3.8686 ppm
Concentration RSD	11.2 %	56.3 %	26.6 %	36.1 %	3.4 %	537.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0025 ppm	0.1655 ppm	-0.0011 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0031 ppm	0.1578 ppm	-0.0012 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0021 ppm	0.1940 ppm	-0.0012 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	0.0004 ppm	0.0006 ppm	0.0022 ppm	0.1446 ppm	-0.0010 ppm
Concentration RSD	187.6 %	84.1 %	101.4 %	27.4 %	22.5 %	15.5 %	13.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9519 ppm	0.0010 ppm	0.0086 ppm	0.7867 ppm	-0.0007 ppm	0.0001 ppm	0.0095 ppm
Concentration per Run 1	0.9586 ppm	0.0008 ppm	0.0085 ppm	0.7895 ppm	-0.0012 ppm	-0.0006 ppm	0.0103 ppm
Concentration per Run 2	0.9516 ppm	0.0011 ppm	0.0088 ppm	0.7776 ppm	-0.0008 ppm	0.0001 ppm	0.0090 ppm
Concentration per Run 3	0.9453 ppm	0.0012 ppm	0.0084 ppm	0.7931 ppm	0.0000 ppm	0.0007 ppm	0.0092 ppm
Concentration RSD	0.7 %	19.9 %	2.1 %	1.0 %	87.3 %	719.4 %	7.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.6805 ppm	0.0213 ppm	0.0113 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0018 ppm	0.6867 ppm	0.0227 ppm	0.0112 ppm	0.0007 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.6733 ppm	0.0218 ppm	0.0114 ppm	0.0005 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	-0.0019 ppm	0.6815 ppm	0.0196 ppm	0.0113 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration RSD	78.1 %	1.0 %	7.4 %	0.9 %	34.7 %	2,653.6 %	474.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	106.0570 %	103.5461 %	105.1761 %	106.4990 %	103.3548 %	104.8574 %
Concentration per Run 1	0.0005 ppm	106.4773 %	104.4016 %	105.7902 %	107.1320 %	104.2212 %	105.4648 %
Concentration per Run 2	0.0005 ppm	106.6444 %	104.5591 %	104.9373 %	106.7659 %	104.1288 %	104.5751 %
Concentration per Run 3	0.0006 ppm	105.0492 %	101.6776 %	104.8009 %	105.5991 %	101.7143 %	104.5324 %
Concentration RSD	17.0 %	0.8 %	1.6 %	0.5 %	0.8 %	1.4 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 4:48:47 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4916 ppm	0.4600 ppm	0.4624 ppm	0.4847 ppm	0.4800 ppm	0.4928 ppm	0.4721 ppm
Concentration per Run 1	0.4933 ppm	0.4631 ppm	0.4607 ppm	0.4866 ppm	0.4789 ppm	0.4911 ppm	0.4731 ppm
Concentration per Run 2	0.4887 ppm	0.4534 ppm	0.4668 ppm	0.4823 ppm	0.4773 ppm	0.4908 ppm	0.4697 ppm
Concentration per Run 3	0.4928 ppm	0.4635 ppm	0.4597 ppm	0.4851 ppm	0.4839 ppm	0.4964 ppm	0.4733 ppm
Recovery Percentage 1	98.320 %	92.001 %	92.480 %	96.940 %	96.008 %	98.559 %	94.412 %
Concentration RSD	0.5 %	1.2 %	0.8 %	0.4 %	0.7 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4899 ppm	0.5016 ppm	0.4823 ppm	0.4872 ppm	0.4871 ppm	4.9326 ppm	0.4803 ppm
Concentration per Run 1	0.4903 ppm	0.5030 ppm	0.4853 ppm	0.4877 ppm	0.4857 ppm	4.9085 ppm	0.4808 ppm
Concentration per Run 2	0.4849 ppm	0.4983 ppm	0.4770 ppm	0.4866 ppm	0.4860 ppm	4.9096 ppm	0.4762 ppm
Concentration per Run 3	0.4944 ppm	0.5036 ppm	0.4846 ppm	0.4872 ppm	0.4894 ppm	4.9797 ppm	0.4839 ppm
Recovery Percentage 1	97.977 %	100.325 %	96.457 %	97.432 %	97.411 %	98.652 %	96.063 %
Concentration RSD	1.0 %	0.6 %	1.0 %	0.1 %	0.4 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4794 ppm	0.4726 ppm	0.4942 ppm	9.5939 ppm	0.4978 ppm	0.4888 ppm	0.5010 ppm
Concentration per Run 1	0.4794 ppm	0.4754 ppm	0.4903 ppm	9.6177 ppm	0.5006 ppm	0.4876 ppm	0.5015 ppm
Concentration per Run 2	0.4761 ppm	0.4686 ppm	0.4901 ppm	9.5435 ppm	0.4945 ppm	0.4936 ppm	0.4991 ppm
Concentration per Run 3	0.4826 ppm	0.4736 ppm	0.5021 ppm	9.6204 ppm	0.4983 ppm	0.4853 ppm	0.5024 ppm
Recovery Percentage 1	95.878 %	94.513 %	98.832 %	95.939 %	99.562 %	97.764 %	100.198 %
Concentration RSD	0.7 %	0.7 %	1.4 %	0.5 %	0.6 %	0.9 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4784 ppm	5.5055 ppm	0.5240 ppm	0.4869 ppm	0.4898 ppm	0.4890 ppm	0.4783 ppm
Concentration per Run 1	0.4775 ppm	5.4871 ppm	0.5253 ppm	0.4863 ppm	0.4919 ppm	0.4863 ppm	0.4790 ppm
Concentration per Run 2	0.4810 ppm	5.4799 ppm	0.5180 ppm	0.4844 ppm	0.4864 ppm	0.4939 ppm	0.4762 ppm
Concentration per Run 3	0.4768 ppm	5.5496 ppm	0.5287 ppm	0.4901 ppm	0.4913 ppm	0.4868 ppm	0.4796 ppm
Recovery Percentage 1	95.689 %	104.867 %	104.805 %	97.383 %	97.969 %	97.793 %	95.653 %
Concentration RSD	0.5 %	0.7 %	1.0 %	0.6 %	0.6 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4960 ppm	104.8930 %	105.4817 %	103.3224 %	104.3407 %	105.4731 %	103.6898 %
Concentration per Run 1	0.4991 ppm	104.0747 %	104.8528 %	104.4708 %	103.4091 %	105.1006 %	104.8596 %
Concentration per Run 2	0.4902 ppm	106.4471 %	106.6602 %	101.6986 %	106.1752 %	106.3105 %	102.0549 %
Concentration per Run 3	0.4986 ppm	104.1573 %	104.9321 %	103.7977 %	103.4379 %	105.0083 %	104.1549 %
Recovery Percentage 1	99.194 %						
Concentration RSD	1.0 %	1.3 %	1.0 %	1.4 %	1.5 %	0.7 %	1.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 4:52:16 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0033 ppm	0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0042 ppm
Concentration per Run 1	0.0003 ppm	-0.0050 ppm	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	0.0004 ppm	0.0050 ppm
Concentration per Run 2	0.0004 ppm	-0.0065 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0015 ppm	0.0024 ppm	0.0005 ppm	0.0002 ppm	0.0004 ppm	0.0045 ppm
Recovery Percentage 1	3.822 %	-3.334 %	16.264 %	0.278 %	2.155 %	10.081 %	4.196 %
Concentration RSD	69.1 %	128.1 %	170.5 %	544.9 %	46.4 %	4.7 %	22.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0004 ppm	0.0003 ppm	0.0008 ppm	0.0004 ppm	-0.0164 ppm	-0.0005 ppm
Concentration per Run 1	0.0005 ppm	-0.0004 ppm	0.0006 ppm	0.0006 ppm	0.0008 ppm	-0.0214 ppm	-0.0007 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0012 ppm	-0.0093 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0007 ppm	0.0006 ppm	0.0008 ppm	-0.0008 ppm	-0.0185 ppm	-0.0008 ppm
Recovery Percentage 1	7.791 %	-2.165 %	3.217 %	7.795 %	0.779 %	-0.656 %	-9.723 %
Concentration RSD	32.0 %	52.1 %	161.8 %	24.7 %	272.0 %	38.5 %	90.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0003 ppm	0.0026 ppm	0.0064 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	0.0026 ppm	0.0101 ppm	0.0010 ppm	-0.0003 ppm	0.0040 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	0.0029 ppm	0.0036 ppm	0.0003 ppm	0.0004 ppm	0.0048 ppm
Concentration per Run 3	-0.0009 ppm	0.0004 ppm	0.0024 ppm	0.0057 ppm	-0.0001 ppm	0.0006 ppm	0.0040 ppm
Recovery Percentage 1	-0.584 %	3.121 %	5.278 %	0.322 %	1.527 %	2.521 %	8.554 %
Concentration RSD	123.3 %	24.6 %	10.0 %	51.6 %	149.5 %	185.2 %	10.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0029 ppm	0.0036 ppm	0.0003 ppm	0.0008 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0041 ppm	0.0026 ppm	0.0046 ppm	0.0003 ppm	0.0008 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0011 ppm	0.0043 ppm	0.0035 ppm	0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0017 ppm	0.0027 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0002 ppm
Recovery Percentage 1	8.586 %	0.576 %	7.167 %	3.079 %	8.063 %	1.885 %	2.650 %
Concentration RSD	333.8 %	46.4 %	26.7 %	4.8 %	38.4 %	184.9 %	71.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	106.0491 %	101.8745 %	104.7321 %	107.3064 %	102.6377 %	104.9935 %
Concentration per Run 1	0.0004 ppm	106.0171 %	102.0923 %	104.5443 %	107.2472 %	102.8570 %	104.9581 %
Concentration per Run 2	0.0005 ppm	105.8913 %	101.9914 %	106.2674 %	106.9558 %	102.8158 %	106.5328 %
Concentration per Run 3	0.0001 ppm	106.2388 %	101.5400 %	103.3847 %	107.7163 %	102.2404 %	103.4896 %
Recovery Percentage 1	6.291 %						
Concentration RSD	55.2 %	0.2 %	0.3 %	1.4 %	0.4 %	0.3 %	1.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-05 WG1935323
Analysis started at: 6/18/2024 4:57:27 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0093 ppm	0.0007 ppm	0.0190 ppm	0.0159 ppm	0.0000 ppm	21.9576 ppm
Concentration per Run 1	-0.0001 ppm	-0.0134 ppm	0.0007 ppm	0.0199 ppm	0.0159 ppm	0.0000 ppm	21.8805 ppm
Concentration per Run 2	0.0005 ppm	-0.0111 ppm	0.0001 ppm	0.0179 ppm	0.0159 ppm	0.0000 ppm	21.8635 ppm
Concentration per Run 3	-0.0003 ppm	-0.0035 ppm	0.0013 ppm	0.0190 ppm	0.0159 ppm	0.0000 ppm	22.1289 ppm
Concentration RSD	1,219.4 %	55.8 %	86.3 %	5.3 %	0.2 %	2,205.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0014 ppm	0.0005 ppm	1.4875 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0012 ppm	1.4750 ppm	-0.0018 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0013 ppm	-0.0011 ppm	1.4958 ppm	-0.0013 ppm
Concentration per Run 3	-0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0016 ppm	0.0013 ppm	1.4917 ppm	-0.0020 ppm
Concentration RSD	22.0 %	28.9 %	280.6 %	10.5 %	279.0 %	0.7 %	19.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.3163 ppm	0.0002 ppm	-0.0001 ppm	12.1255 ppm	-0.0005 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 1	6.3045 ppm	0.0002 ppm	0.0003 ppm	12.0877 ppm	0.0005 ppm	0.0011 ppm	-0.0028 ppm
Concentration per Run 2	6.3145 ppm	0.0004 ppm	-0.0003 ppm	12.0915 ppm	-0.0008 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 3	6.3297 ppm	0.0001 ppm	-0.0005 ppm	12.1971 ppm	-0.0011 ppm	0.0001 ppm	0.0012 ppm
Concentration RSD	0.2 %	78.4 %	298.9 %	0.5 %	177.8 %	241.5 %	312.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	2.8281 ppm	-0.0003 ppm	0.0798 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	2.8298 ppm	-0.0005 ppm	0.0793 ppm	0.0003 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	2.8240 ppm	-0.0010 ppm	0.0800 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0052 ppm	2.8303 ppm	0.0006 ppm	0.0801 ppm	0.0000 ppm	0.0019 ppm	0.0001 ppm
Concentration RSD	120.1 %	0.1 %	274.0 %	0.6 %	116.3 %	180.2 %	210.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	103.2736 %	103.9139 %	103.4414 %	103.1132 %	104.0532 %	103.7484 %
Concentration per Run 1	0.0006 ppm	103.4225 %	103.9153 %	106.1294 %	103.4867 %	104.0257 %	106.7077 %
Concentration per Run 2	0.0009 ppm	103.6115 %	104.4166 %	102.3182 %	103.0811 %	104.6031 %	100.8896 %
Concentration per Run 3	0.0010 ppm	102.7868 %	103.4099 %	101.8766 %	102.7719 %	103.5310 %	103.6480 %
Concentration RSD	21.3 %	0.4 %	0.5 %	2.3 %	0.3 %	0.5 %	2.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-06 WG1935323
Analysis started at: 6/18/2024 5:00:55 PM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0039 ppm	-0.0002 ppm	0.0878 ppm	0.0140 ppm	0.0000 ppm	17.9142 ppm
Concentration per Run 1	0.0006 ppm	-0.0045 ppm	0.0001 ppm	0.0848 ppm	0.0140 ppm	0.0000 ppm	18.0508 ppm
Concentration per Run 2	-0.0002 ppm	-0.0062 ppm	-0.0003 ppm	0.0908 ppm	0.0139 ppm	-0.0001 ppm	17.9103 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	-0.0005 ppm	0.0879 ppm	0.0141 ppm	0.0000 ppm	17.7814 ppm
Concentration RSD	197.6 %	69.0 %	125.4 %	3.4 %	0.8 %	347.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0024 ppm	0.0022 ppm	0.0184 ppm	1.3481 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0021 ppm	0.0023 ppm	0.0196 ppm	1.3888 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	-0.0010 ppm	0.0027 ppm	0.0021 ppm	0.0174 ppm	1.3350 ppm	0.0013 ppm
Concentration per Run 3	-0.0003 ppm	-0.0003 ppm	0.0023 ppm	0.0023 ppm	0.0183 ppm	1.3204 ppm	0.0020 ppm
Concentration RSD	79.2 %	134.2 %	12.3 %	3.8 %	6.0 %	2.7 %	84.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.6679 ppm	0.0017 ppm	-0.0005 ppm	13.3164 ppm	0.0013 ppm	-0.0002 ppm	-0.0021 ppm
Concentration per Run 1	8.6825 ppm	0.0017 ppm	-0.0003 ppm	13.3334 ppm	0.0017 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 2	8.6886 ppm	0.0018 ppm	-0.0005 ppm	13.3354 ppm	0.0003 ppm	-0.0003 ppm	-0.0041 ppm
Concentration per Run 3	8.6326 ppm	0.0015 ppm	-0.0005 ppm	13.2804 ppm	0.0021 ppm	-0.0005 ppm	-0.0011 ppm
Concentration RSD	0.4 %	11.1 %	31.7 %	0.2 %	70.4 %	186.3 %	79.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	9.5870 ppm	-0.0010 ppm	0.0868 ppm	0.0004 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 1	0.0028 ppm	9.5707 ppm	-0.0015 ppm	0.0866 ppm	0.0007 ppm	0.0013 ppm	0.0008 ppm
Concentration per Run 2	0.0006 ppm	9.6402 ppm	-0.0004 ppm	0.0871 ppm	0.0003 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 3	-0.0008 ppm	9.5502 ppm	-0.0012 ppm	0.0867 ppm	0.0003 ppm	0.0006 ppm	0.0011 ppm
Concentration RSD	213.3 %	0.5 %	53.3 %	0.3 %	52.4 %	278.5 %	13.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	105.6514 %	104.1481 %	103.1606 %	105.2980 %	104.2832 %	104.3215 %
Concentration per Run 1	0.0017 ppm	106.4121 %	104.0474 %	101.5024 %	106.2974 %	104.4239 %	102.7732 %
Concentration per Run 2	0.0022 ppm	105.4378 %	103.8517 %	104.2282 %	105.0866 %	104.1041 %	105.4624 %
Concentration per Run 3	0.0017 ppm	105.1042 %	104.5453 %	103.7512 %	104.5101 %	104.3217 %	104.7290 %
Concentration RSD	14.0 %	0.6 %	0.3 %	1.4 %	0.9 %	0.2 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-07 WG1935323
Analysis started at: 6/18/2024 5:04:24 PM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0104 ppm	-0.0011 ppm	0.1150 ppm	0.0716 ppm	0.0000 ppm	96.4767 ppm
Concentration per Run 1	-0.0001 ppm	-0.0092 ppm	-0.0010 ppm	0.1169 ppm	0.0717 ppm	0.0000 ppm	96.4691 ppm
Concentration per Run 2	0.0002 ppm	-0.0147 ppm	0.0001 ppm	0.1138 ppm	0.0715 ppm	0.0001 ppm	96.7323 ppm
Concentration per Run 3	-0.0003 ppm	-0.0073 ppm	-0.0025 ppm	0.1144 ppm	0.0716 ppm	0.0000 ppm	96.2288 ppm
Concentration RSD	527.3 %	36.9 %	113.4 %	1.4 %	0.1 %	277.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0042 ppm	0.0042 ppm	6.2724 ppm	-0.0021 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0043 ppm	0.0042 ppm	6.3188 ppm	-0.0018 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0042 ppm	0.0035 ppm	6.2365 ppm	-0.0019 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0042 ppm	0.0050 ppm	6.2619 ppm	-0.0026 ppm
Concentration RSD	57.3 %	57.0 %	49.0 %	1.2 %	17.5 %	0.7 %	20.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.2332 ppm	0.1094 ppm	-0.0003 ppm	11.0666 ppm	-0.0001 ppm	-0.0002 ppm	-0.0026 ppm
Concentration per Run 1	16.1818 ppm	0.1093 ppm	-0.0005 ppm	11.0716 ppm	0.0005 ppm	-0.0012 ppm	-0.0017 ppm
Concentration per Run 2	16.2599 ppm	0.1096 ppm	-0.0005 ppm	11.0132 ppm	-0.0003 ppm	0.0004 ppm	-0.0046 ppm
Concentration per Run 3	16.2579 ppm	0.1091 ppm	0.0000 ppm	11.1149 ppm	-0.0004 ppm	0.0002 ppm	-0.0016 ppm
Concentration RSD	0.3 %	0.2 %	99.4 %	0.5 %	851.5 %	417.3 %	65.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	4.5862 ppm	-0.0004 ppm	0.5002 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	4.5713 ppm	0.0003 ppm	0.4991 ppm	0.0001 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 2	0.0033 ppm	4.5818 ppm	-0.0001 ppm	0.5005 ppm	0.0005 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	4.6054 ppm	-0.0014 ppm	0.5011 ppm	0.0007 ppm	-0.0003 ppm	0.0006 ppm
Concentration RSD	113.1 %	0.4 %	217.3 %	0.2 %	73.6 %	2,115.0 %	59.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	102.5981 %	104.4632 %	98.7929 %	102.6549 %	104.0878 %	101.9073 %
Concentration per Run 1	0.0018 ppm	102.0196 %	104.4490 %	98.0352 %	101.7358 %	104.2657 %	101.0742 %
Concentration per Run 2	0.0018 ppm	101.9449 %	104.0017 %	98.7429 %	102.3866 %	103.5817 %	102.0870 %
Concentration per Run 3	0.0014 ppm	103.8298 %	104.9390 %	99.6007 %	103.8423 %	104.4160 %	102.5607 %
Concentration RSD	12.4 %	1.0 %	0.4 %	0.8 %	1.1 %	0.4 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-08 WG1935323
Analysis started at: 6/18/2024 5:07:53 PM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0022 ppm	-0.0002 ppm	0.0102 ppm	0.0103 ppm	0.0000 ppm	10.8546 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0094 ppm	0.0103 ppm	0.0000 ppm	10.8918 ppm
Concentration per Run 2	0.0002 ppm	-0.0047 ppm	-0.0005 ppm	0.0105 ppm	0.0103 ppm	0.0000 ppm	10.8009 ppm
Concentration per Run 3	-0.0003 ppm	-0.0018 ppm	0.0006 ppm	0.0108 ppm	0.0103 ppm	0.0000 ppm	10.8711 ppm
Concentration RSD	1,244.8 %	110.3 %	318.3 %	7.0 %	0.4 %	100.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0015 ppm	0.0039 ppm	1.0250 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0020 ppm	0.0014 ppm	0.0052 ppm	1.0222 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0025 ppm	0.0017 ppm	0.0043 ppm	1.0344 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0024 ppm	0.0016 ppm	0.0023 ppm	1.0185 ppm	0.0013 ppm
Concentration RSD	99.8 %	4.4 %	10.8 %	9.1 %	38.0 %	0.8 %	53.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2014 ppm	0.0031 ppm	-0.0006 ppm	16.3857 ppm	0.0007 ppm	0.0002 ppm	-0.0017 ppm
Concentration per Run 1	5.2148 ppm	0.0030 ppm	-0.0009 ppm	16.5101 ppm	0.0003 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 2	5.2049 ppm	0.0032 ppm	-0.0006 ppm	16.3426 ppm	0.0006 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 3	5.1844 ppm	0.0032 ppm	-0.0004 ppm	16.3044 ppm	0.0011 ppm	0.0000 ppm	0.0004 ppm
Concentration RSD	0.3 %	3.8 %	43.2 %	0.7 %	60.6 %	185.5 %	152.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	6.8589 ppm	-0.0018 ppm	0.0537 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	6.8690 ppm	-0.0015 ppm	0.0537 ppm	-0.0004 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	6.8445 ppm	-0.0012 ppm	0.0536 ppm	0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0021 ppm	6.8631 ppm	-0.0029 ppm	0.0538 ppm	0.0005 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	120.8 %	0.2 %	49.0 %	0.2 %	426.5 %	203.7 %	159.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	104.8452 %	104.1232 %	102.3184 %	105.0448 %	103.5883 %	103.1794 %
Concentration per Run 1	0.0010 ppm	104.4959 %	103.9390 %	101.7725 %	104.8701 %	103.5453 %	102.7053 %
Concentration per Run 2	0.0008 ppm	105.2626 %	104.7384 %	102.5301 %	105.2116 %	103.8519 %	103.3620 %
Concentration per Run 3	0.0009 ppm	104.7770 %	103.6923 %	102.6526 %	105.0528 %	103.3677 %	103.4708 %
Concentration RSD	6.6 %	0.4 %	0.5 %	0.5 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-09 WG1935323
Analysis started at: 6/18/2024 5:11:23 PM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0047 ppm	-0.0004 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0315 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0020 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0302 ppm
Concentration per Run 2	-0.0005 ppm	-0.0071 ppm	-0.0015 ppm	-0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0323 ppm
Concentration per Run 3	0.0006 ppm	-0.0070 ppm	0.0021 ppm	-0.0030 ppm	0.0000 ppm	0.0000 ppm	0.0321 ppm
Concentration RSD	864.9 %	87.2 %	505.3 %	118.4 %	59.4 %	140.9 %	3.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0020 ppm	0.0037 ppm	-0.0056 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0021 ppm	0.0030 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	0.0007 ppm	0.0018 ppm	0.0047 ppm	-0.0034 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	0.0000 ppm	0.0021 ppm	0.0033 ppm	-0.0126 ppm	-0.0014 ppm
Concentration RSD	120.5 %	112.4 %	231.5 %	7.8 %	24.9 %	111.0 %	117.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0100 ppm	0.0001 ppm	-0.0007 ppm	0.0079 ppm	0.0002 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 1	0.0115 ppm	0.0002 ppm	-0.0006 ppm	0.0068 ppm	0.0005 ppm	-0.0008 ppm	0.0053 ppm
Concentration per Run 2	0.0083 ppm	0.0001 ppm	-0.0012 ppm	0.0062 ppm	0.0000 ppm	-0.0011 ppm	-0.0031 ppm
Concentration per Run 3	0.0102 ppm	0.0001 ppm	-0.0003 ppm	0.0106 ppm	-0.0001 ppm	0.0000 ppm	0.0028 ppm
Concentration RSD	16.1 %	34.7 %	69.5 %	30.5 %	205.8 %	90.9 %	257.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0076 ppm	-0.0020 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0069 ppm	-0.0031 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0019 ppm	0.0093 ppm	-0.0011 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	-0.0005 ppm
Concentration per Run 3	0.0037 ppm	0.0064 ppm	-0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm
Concentration RSD	135.3 %	20.4 %	50.1 %	49.0 %	64.5 %	258.4 %	227.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0095 ppm	102.7882 %	103.6111 %	105.6619 %	103.1173 %	103.0203 %	105.1982 %
Concentration per Run 1	0.0095 ppm	102.8947 %	103.4423 %	105.9528 %	101.9324 %	102.4332 %	105.5738 %
Concentration per Run 2	0.0095 ppm	101.5301 %	103.3217 %	105.6394 %	102.6348 %	102.9598 %	105.1109 %
Concentration per Run 3	0.0094 ppm	103.9398 %	104.0693 %	105.3934 %	104.7846 %	103.6681 %	104.9099 %
Concentration RSD	0.8 %	1.2 %	0.4 %	0.3 %	1.4 %	0.6 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433035-10 WG1935323
Analysis started at: 6/18/2024 5:14:52 PM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0032 ppm	0.0014 ppm	0.0239 ppm	0.0222 ppm	0.0000 ppm	10.1046 ppm
Concentration per Run 1	-0.0005 ppm	-0.0017 ppm	-0.0001 ppm	0.0250 ppm	0.0224 ppm	0.0000 ppm	10.1177 ppm
Concentration per Run 2	-0.0001 ppm	-0.0124 ppm	0.0032 ppm	0.0233 ppm	0.0222 ppm	0.0000 ppm	10.1389 ppm
Concentration per Run 3	0.0006 ppm	0.0047 ppm	0.0013 ppm	0.0233 ppm	0.0220 ppm	0.0000 ppm	10.0574 ppm
Concentration RSD	4,449.8 %	273.6 %	115.3 %	4.0 %	1.0 %	99.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0024 ppm	0.0000 ppm	0.0015 ppm	2.4977 ppm	0.9269 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0022 ppm	-0.0006 ppm	0.0015 ppm	2.5094 ppm	0.9449 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0030 ppm	0.0002 ppm	0.0017 ppm	2.4999 ppm	0.9230 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0019 ppm	0.0003 ppm	0.0011 ppm	2.4837 ppm	0.9128 ppm	-0.0009 ppm
Concentration RSD	315.5 %	25.5 %	1,906.5 %	21.0 %	0.5 %	1.8 %	326.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.5096 ppm	0.0388 ppm	-0.0008 ppm	8.2682 ppm	0.0014 ppm	-0.0008 ppm	0.0008 ppm
Concentration per Run 1	4.5590 ppm	0.0385 ppm	-0.0011 ppm	8.2604 ppm	0.0020 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 2	4.5045 ppm	0.0390 ppm	-0.0010 ppm	8.3161 ppm	0.0006 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 3	4.4652 ppm	0.0388 ppm	-0.0004 ppm	8.2280 ppm	0.0015 ppm	-0.0016 ppm	0.0006 ppm
Concentration RSD	1.0 %	0.7 %	40.3 %	0.5 %	50.6 %	127.9 %	77.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	7.8163 ppm	-0.0017 ppm	0.0394 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0010 ppm	7.9085 ppm	-0.0018 ppm	0.0397 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0016 ppm	7.7870 ppm	-0.0016 ppm	0.0395 ppm	-0.0003 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0039 ppm	7.7533 ppm	-0.0017 ppm	0.0391 ppm	0.0006 ppm	0.0006 ppm	0.0000 ppm
Concentration RSD	71.5 %	1.0 %	4.6 %	0.8 %	2,015.7 %	7,637.4 %	113.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	103.5557 %	104.0282 %	103.1577 %	104.1450 %	103.5026 %	103.8310 %
Concentration per Run 1	0.0055 ppm	102.1265 %	104.5400 %	102.6649 %	103.7734 %	103.9790 %	103.6725 %
Concentration per Run 2	0.0054 ppm	103.4131 %	103.7977 %	102.9414 %	103.7175 %	103.3833 %	103.3623 %
Concentration per Run 3	0.0053 ppm	105.1275 %	103.7469 %	103.8667 %	104.9443 %	103.1454 %	104.4582 %
Concentration RSD	1.3 %	1.5 %	0.4 %	0.6 %	0.7 %	0.4 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-01D2 WG1935625
Analysis started at: 6/18/2024 5:19:55 PM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	69.2688 ppm	0.0527 ppm	0.0474 ppm	0.8236 ppm	0.0033 ppm	253.7754 ppm
Concentration per Run 1	0.0027 ppm	68.9684 ppm	0.0511 ppm	0.0465 ppm	0.8206 ppm	0.0032 ppm	253.8944 ppm
Concentration per Run 2	0.0032 ppm	69.5630 ppm	0.0521 ppm	0.0487 ppm	0.8227 ppm	0.0033 ppm	253.7777 ppm
Concentration per Run 3	0.0035 ppm	69.2748 ppm	0.0550 ppm	0.0471 ppm	0.8274 ppm	0.0033 ppm	253.6541 ppm
Concentration RSD	12.8 %	0.4 %	3.9 %	2.5 %	0.4 %	1.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0013 ppm	0.0305 ppm	0.1192 ppm	0.3524 ppm	99.6025 ppm	5.8778 ppm	0.0744 ppm
Concentration per Run 1	-0.0013 ppm	0.0308 ppm	0.1204 ppm	0.3544 ppm	99.2213 ppm	5.8656 ppm	0.0744 ppm
Concentration per Run 2	-0.0016 ppm	0.0308 ppm	0.1181 ppm	0.3507 ppm	99.9370 ppm	5.8744 ppm	0.0738 ppm
Concentration per Run 3	-0.0011 ppm	0.0298 ppm	0.1191 ppm	0.3521 ppm	99.6491 ppm	5.8934 ppm	0.0752 ppm
Concentration RSD	16.1 %	1.8 %	0.9 %	0.5 %	0.4 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.5441 ppm	1.7510 ppm	0.0051 ppm	2.2404 ppm	0.0782 ppm	1.8675 ppm	0.0029 ppm
Concentration per Run 1	30.9045 ppm	1.7522 ppm	0.0050 ppm	2.2303 ppm	0.0797 ppm	1.8512 ppm	0.0068 ppm
Concentration per Run 2	30.2104 ppm	1.7507 ppm	0.0055 ppm	2.2482 ppm	0.0763 ppm	1.8751 ppm	0.0003 ppm
Concentration per Run 3	30.5174 ppm	1.7501 ppm	0.0047 ppm	2.2427 ppm	0.0786 ppm	1.8762 ppm	0.0015 ppm
Concentration RSD	1.1 %	0.1 %	8.4 %	0.4 %	2.2 %	0.8 %	123.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0065 ppm	14.7385 ppm	0.0291 ppm	1.4577 ppm	1.8075 ppm	0.0032 ppm	0.1730 ppm
Concentration per Run 1	-0.0057 ppm	14.9415 ppm	0.0291 ppm	1.4502 ppm	1.8297 ppm	0.0024 ppm	0.1746 ppm
Concentration per Run 2	-0.0049 ppm	14.6001 ppm	0.0287 ppm	1.4567 ppm	1.7843 ppm	0.0028 ppm	0.1715 ppm
Concentration per Run 3	-0.0090 ppm	14.6737 ppm	0.0295 ppm	1.4662 ppm	1.8085 ppm	0.0043 ppm	0.1728 ppm
Concentration RSD	33.2 %	1.2 %	1.5 %	0.6 %	1.3 %	30.2 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9007 ppm	102.7450 %	105.1435 %	92.5503 %	112.5483 %	116.5564 %	112.2546 %
Concentration per Run 1	0.9131 ppm	101.9511 %	104.4266 %	93.0731 %	111.4041 %	116.0170 %	112.4272 %
Concentration per Run 2	0.8864 ppm	103.9302 %	105.3280 %	92.1087 %	114.2328 %	116.1723 %	111.9463 %
Concentration per Run 3	0.9027 ppm	102.3537 %	105.6759 %	92.4690 %	112.0081 %	117.4799 %	112.3903 %
Concentration RSD	1.5 %	1.0 %	0.6 %	0.5 %	1.3 %	0.7 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-02D2 WG1935625
Analysis started at: 6/18/2024 5:23:23 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0023 ppm	64.2457 ppm	0.0118 ppm	0.0094 ppm	0.4249 ppm	0.0038 ppm	23.2659 ppm
Concentration per Run 1	0.0026 ppm	64.5462 ppm	0.0120 ppm	0.0109 ppm	0.4259 ppm	0.0038 ppm	23.3631 ppm
Concentration per Run 2	0.0024 ppm	64.6023 ppm	0.0138 ppm	0.0104 ppm	0.4253 ppm	0.0038 ppm	23.3575 ppm
Concentration per Run 3	0.0020 ppm	63.5887 ppm	0.0097 ppm	0.0067 ppm	0.4236 ppm	0.0038 ppm	23.0770 ppm
Concentration RSD	12.8 %	0.9 %	17.5 %	24.5 %	0.3 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0032 ppm	0.0340 ppm	0.1201 ppm	0.1926 ppm	104.1987 ppm	3.6895 ppm	0.0566 ppm
Concentration per Run 1	-0.0032 ppm	0.0338 ppm	0.1187 ppm	0.1923 ppm	104.4323 ppm	3.6991 ppm	0.0573 ppm
Concentration per Run 2	-0.0033 ppm	0.0339 ppm	0.1218 ppm	0.1921 ppm	104.6315 ppm	3.6880 ppm	0.0569 ppm
Concentration per Run 3	-0.0030 ppm	0.0343 ppm	0.1199 ppm	0.1933 ppm	103.5325 ppm	3.6814 ppm	0.0557 ppm
Concentration RSD	4.3 %	0.7 %	1.3 %	0.3 %	0.6 %	0.2 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.3081 ppm	0.5794 ppm	0.0017 ppm	0.9016 ppm	0.0749 ppm	0.1739 ppm	-0.0028 ppm
Concentration per Run 1	13.2820 ppm	0.5820 ppm	0.0017 ppm	0.9165 ppm	0.0749 ppm	0.1755 ppm	-0.0041 ppm
Concentration per Run 2	13.3576 ppm	0.5816 ppm	0.0014 ppm	0.8958 ppm	0.0748 ppm	0.1747 ppm	-0.0001 ppm
Concentration per Run 3	13.2846 ppm	0.5745 ppm	0.0019 ppm	0.8924 ppm	0.0750 ppm	0.1715 ppm	-0.0042 ppm
Concentration RSD	0.3 %	0.7 %	14.8 %	1.4 %	0.1 %	1.2 %	82.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	5.1154 ppm	0.0083 ppm	0.1660 ppm	1.4227 ppm	0.0017 ppm	0.1601 ppm
Concentration per Run 1	-0.0009 ppm	5.1442 ppm	0.0088 ppm	0.1665 ppm	1.4238 ppm	0.0025 ppm	0.1599 ppm
Concentration per Run 2	-0.0032 ppm	5.1402 ppm	0.0078 ppm	0.1663 ppm	1.4177 ppm	0.0012 ppm	0.1601 ppm
Concentration per Run 3	0.0002 ppm	5.0619 ppm	0.0082 ppm	0.1653 ppm	1.4266 ppm	0.0015 ppm	0.1601 ppm
Concentration RSD	133.7 %	0.9 %	5.9 %	0.4 %	0.3 %	38.8 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2475 ppm	107.8648 %	108.6454 %	102.9910 %	124.6747 %	126.1919 %	126.0691 %
Concentration per Run 1	0.2454 ppm	108.5288 %	109.4493 %	102.3271 %	125.6591 %	127.4006 %	125.6066 %
Concentration per Run 2	0.2482 ppm	107.2258 %	107.3825 %	103.4620 %	123.3084 %	125.1515 %	126.6890 %
Concentration per Run 3	0.2489 ppm	107.8399 %	109.1042 %	103.1838 %	125.0567 %	126.0234 %	125.9118 %
Concentration RSD	0.7 %	0.6 %	1.0 %	0.6 %	1.0 %	0.9 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-03D2 WG1935625
Analysis started at: 6/18/2024 5:26:52 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	51.0099 ppm	0.0184 ppm	0.0146 ppm	0.3997 ppm	0.0038 ppm	29.8800 ppm
Concentration per Run 1	0.0027 ppm	50.9880 ppm	0.0182 ppm	0.0151 ppm	0.3987 ppm	0.0039 ppm	29.8708 ppm
Concentration per Run 2	0.0037 ppm	50.8474 ppm	0.0178 ppm	0.0130 ppm	0.4022 ppm	0.0038 ppm	29.8290 ppm
Concentration per Run 3	0.0032 ppm	51.1942 ppm	0.0190 ppm	0.0156 ppm	0.3981 ppm	0.0038 ppm	29.9402 ppm
Concentration RSD	15.6 %	0.3 %	3.3 %	9.6 %	0.6 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0032 ppm	0.0376 ppm	0.1171 ppm	0.1878 ppm	111.8087 ppm	4.1773 ppm	0.0486 ppm
Concentration per Run 1	-0.0033 ppm	0.0375 ppm	0.1167 ppm	0.1878 ppm	111.6297 ppm	4.1961 ppm	0.0492 ppm
Concentration per Run 2	-0.0031 ppm	0.0379 ppm	0.1175 ppm	0.1882 ppm	112.1399 ppm	4.1345 ppm	0.0478 ppm
Concentration per Run 3	-0.0032 ppm	0.0373 ppm	0.1172 ppm	0.1876 ppm	111.6566 ppm	4.2012 ppm	0.0490 ppm
Concentration RSD	2.7 %	0.8 %	0.4 %	0.2 %	0.3 %	0.9 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.6927 ppm	1.0580 ppm	0.0027 ppm	1.0819 ppm	0.0803 ppm	0.2736 ppm	-0.0029 ppm
Concentration per Run 1	13.7067 ppm	1.0599 ppm	0.0027 ppm	1.0738 ppm	0.0808 ppm	0.2747 ppm	-0.0028 ppm
Concentration per Run 2	13.6768 ppm	1.0580 ppm	0.0028 ppm	1.0799 ppm	0.0801 ppm	0.2739 ppm	-0.0049 ppm
Concentration per Run 3	13.6945 ppm	1.0561 ppm	0.0025 ppm	1.0919 ppm	0.0800 ppm	0.2722 ppm	-0.0010 ppm
Concentration RSD	0.1 %	0.2 %	5.0 %	0.9 %	0.5 %	0.5 %	66.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	6.8592 ppm	0.0074 ppm	0.2040 ppm	1.6506 ppm	0.0020 ppm	0.1662 ppm
Concentration per Run 1	-0.0035 ppm	6.8638 ppm	0.0073 ppm	0.2039 ppm	1.6585 ppm	0.0007 ppm	0.1663 ppm
Concentration per Run 2	-0.0020 ppm	6.8929 ppm	0.0076 ppm	0.2040 ppm	1.6473 ppm	0.0019 ppm	0.1658 ppm
Concentration per Run 3	-0.0001 ppm	6.8209 ppm	0.0075 ppm	0.2040 ppm	1.6461 ppm	0.0032 ppm	0.1664 ppm
Concentration RSD	90.8 %	0.5 %	2.0 %	0.0 %	0.4 %	64.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4305 ppm	106.8450 %	107.0911 %	101.6456 %	125.4601 %	125.3892 %	125.3285 %
Concentration per Run 1	0.4309 ppm	107.1804 %	107.3663 %	101.8968 %	125.7123 %	125.6828 %	125.3260 %
Concentration per Run 2	0.4306 ppm	106.8376 %	106.6499 %	100.8839 %	125.4356 %	124.6885 %	124.8251 %
Concentration per Run 3	0.4301 ppm	106.5170 %	107.2573 %	102.1562 %	125.2325 %	125.7965 %	125.8343 %
Concentration RSD	0.1 %	0.3 %	0.4 %	0.7 %	0.2 %	0.5 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-04D2 WG1935625
Analysis started at: 6/18/2024 5:30:21 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0033 ppm	64.1251 ppm	0.0446 ppm	0.0362 ppm	0.6351 ppm	0.0037 ppm	180.4709 ppm
Concentration per Run 1	0.0030 ppm	64.3311 ppm	0.0453 ppm	0.0362 ppm	0.6426 ppm	0.0037 ppm	181.2366 ppm
Concentration per Run 2	0.0035 ppm	63.6603 ppm	0.0425 ppm	0.0348 ppm	0.6309 ppm	0.0037 ppm	180.0996 ppm
Concentration per Run 3	0.0034 ppm	64.3840 ppm	0.0458 ppm	0.0377 ppm	0.6318 ppm	0.0037 ppm	180.0766 ppm
Concentration RSD	9.3 %	0.6 %	4.0 %	4.0 %	1.0 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0016 ppm	0.0370 ppm	0.1441 ppm	0.2811 ppm	115.0502 ppm	6.7234 ppm	0.0765 ppm
Concentration per Run 1	-0.0016 ppm	0.0369 ppm	0.1437 ppm	0.2801 ppm	115.7044 ppm	6.7990 ppm	0.0791 ppm
Concentration per Run 2	-0.0016 ppm	0.0365 ppm	0.1442 ppm	0.2818 ppm	114.6050 ppm	6.7206 ppm	0.0750 ppm
Concentration per Run 3	-0.0016 ppm	0.0376 ppm	0.1446 ppm	0.2813 ppm	114.8413 ppm	6.6506 ppm	0.0755 ppm
Concentration RSD	1.1 %	1.5 %	0.3 %	0.3 %	0.5 %	1.1 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.8957 ppm	2.1238 ppm	0.0067 ppm	1.8055 ppm	0.0841 ppm	1.4533 ppm	0.0012 ppm
Concentration per Run 1	26.7061 ppm	2.1354 ppm	0.0070 ppm	1.8162 ppm	0.0843 ppm	1.4411 ppm	0.0044 ppm
Concentration per Run 2	27.1079 ppm	2.1240 ppm	0.0062 ppm	1.7915 ppm	0.0842 ppm	1.4587 ppm	-0.0007 ppm
Concentration per Run 3	26.8731 ppm	2.1120 ppm	0.0070 ppm	1.8087 ppm	0.0837 ppm	1.4600 ppm	0.0000 ppm
Concentration RSD	0.8 %	0.5 %	6.7 %	0.7 %	0.4 %	0.7 %	226.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0063 ppm	11.4541 ppm	0.0235 ppm	1.2759 ppm	1.9168 ppm	0.0026 ppm	0.1911 ppm
Concentration per Run 1	-0.0059 ppm	11.3831 ppm	0.0230 ppm	1.2871 ppm	1.8988 ppm	0.0034 ppm	0.1900 ppm
Concentration per Run 2	-0.0073 ppm	11.4953 ppm	0.0235 ppm	1.2714 ppm	1.9270 ppm	0.0027 ppm	0.1915 ppm
Concentration per Run 3	-0.0056 ppm	11.4839 ppm	0.0239 ppm	1.2690 ppm	1.9247 ppm	0.0018 ppm	0.1919 ppm
Concentration RSD	14.2 %	0.5 %	1.8 %	0.8 %	0.8 %	31.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9605 ppm	104.5278 %	108.1860 %	95.8015 %	115.1219 %	119.7335 %	114.7459 %
Concentration per Run 1	0.9566 ppm	104.8350 %	107.1398 %	95.8131 %	115.2332 %	118.1980 %	114.8281 %
Concentration per Run 2	0.9595 ppm	104.3084 %	109.0542 %	95.5876 %	115.2042 %	120.6422 %	114.4946 %
Concentration per Run 3	0.9653 ppm	104.4398 %	108.3641 %	96.0039 %	114.9283 %	120.3602 %	114.9148 %
Concentration RSD	0.5 %	0.3 %	0.9 %	0.2 %	0.1 %	1.1 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:06:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5028 ppm	0.4749 ppm	0.4671 ppm	0.4938 ppm	0.4892 ppm	0.5046 ppm	0.4813 ppm
Concentration per Run 1	0.5046 ppm	0.4775 ppm	0.4635 ppm	0.4947 ppm	0.4878 ppm	0.5059 ppm	0.4818 ppm
Concentration per Run 2	0.4998 ppm	0.4688 ppm	0.4722 ppm	0.4913 ppm	0.4889 ppm	0.5018 ppm	0.4828 ppm
Concentration per Run 3	0.5040 ppm	0.4785 ppm	0.4655 ppm	0.4954 ppm	0.4909 ppm	0.5061 ppm	0.4792 ppm
Recovery Percentage 1	100.558 %	94.984 %	93.413 %	98.761 %	97.841 %	100.922 %	96.256 %
Concentration RSD	0.5 %	1.1 %	1.0 %	0.4 %	0.3 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4992 ppm	0.5107 ppm	0.4915 ppm	0.4973 ppm	0.4991 ppm	5.0035 ppm	0.4895 ppm
Concentration per Run 1	0.5004 ppm	0.5092 ppm	0.4952 ppm	0.4972 ppm	0.4979 ppm	5.0106 ppm	0.4873 ppm
Concentration per Run 2	0.4950 ppm	0.5082 ppm	0.4896 ppm	0.4940 ppm	0.4977 ppm	5.0066 ppm	0.4912 ppm
Concentration per Run 3	0.5023 ppm	0.5148 ppm	0.4896 ppm	0.5006 ppm	0.5016 ppm	4.9934 ppm	0.4899 ppm
Recovery Percentage 1	99.849 %	102.148 %	98.291 %	99.456 %	99.815 %	100.071 %	97.893 %
Concentration RSD	0.8 %	0.7 %	0.7 %	0.7 %	0.4 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4895 ppm	0.4824 ppm	0.5008 ppm	9.6869 ppm	0.5060 ppm	0.4976 ppm	0.5048 ppm
Concentration per Run 1	0.4909 ppm	0.4807 ppm	0.4979 ppm	9.6899 ppm	0.5080 ppm	0.4969 ppm	0.5031 ppm
Concentration per Run 2	0.4866 ppm	0.4826 ppm	0.4980 ppm	9.6298 ppm	0.5043 ppm	0.4994 ppm	0.4972 ppm
Concentration per Run 3	0.4910 ppm	0.4838 ppm	0.5064 ppm	9.7409 ppm	0.5057 ppm	0.4966 ppm	0.5140 ppm
Recovery Percentage 1	97.903 %	96.475 %	100.154 %	96.869 %	101.199 %	99.527 %	100.956 %
Concentration RSD	0.5 %	0.3 %	1.0 %	0.6 %	0.4 %	0.3 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4817 ppm	5.6517 ppm	0.5251 ppm	0.4980 ppm	0.4996 ppm	0.4938 ppm	0.4897 ppm
Concentration per Run 1	0.4804 ppm	5.6490 ppm	0.5252 ppm	0.4977 ppm	0.5016 ppm	0.4911 ppm	0.4895 ppm
Concentration per Run 2	0.4849 ppm	5.6214 ppm	0.5214 ppm	0.4970 ppm	0.4971 ppm	0.4947 ppm	0.4875 ppm
Concentration per Run 3	0.4797 ppm	5.6847 ppm	0.5287 ppm	0.4994 ppm	0.5002 ppm	0.4957 ppm	0.4923 ppm
Recovery Percentage 1	96.337 %	107.652 %	105.017 %	99.602 %	99.927 %	98.767 %	97.945 %
Concentration RSD	0.6 %	0.6 %	0.7 %	0.3 %	0.5 %	0.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5055 ppm	104.0454 %	103.4922 %	102.9099 %	103.8072 %	102.8342 %	103.5660 %
Concentration per Run 1	0.5067 ppm	104.0301 %	103.8702 %	103.4127 %	103.4221 %	103.3943 %	104.3267 %
Concentration per Run 2	0.5021 ppm	105.0571 %	103.8075 %	103.2394 %	104.8910 %	103.0794 %	103.5769 %
Concentration per Run 3	0.5078 ppm	103.0490 %	102.7989 %	102.0777 %	103.1085 %	102.0289 %	102.7943 %
Recovery Percentage 1	101.106 %						
Concentration RSD	0.6 %	1.0 %	0.6 %	0.7 %	0.9 %	0.7 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:09:49 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0035 ppm	0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0020 ppm
Concentration per Run 1	0.0008 ppm	-0.0008 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 2	0.0009 ppm	-0.0068 ppm	0.0003 ppm	0.0020 ppm	0.0003 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	0.0008 ppm	-0.0028 ppm	0.0003 ppm	-0.0009 ppm	0.0003 ppm	0.0004 ppm	0.0032 ppm
Recovery Percentage 1	12.021 %	-3.470 %	6.550 %	1.155 %	2.670 %	9.118 %	2.012 %
Concentration RSD	7.7 %	88.2 %	31.9 %	433.5 %	3.2 %	4.4 %	63.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0014 ppm	-0.0066 ppm	-0.0004 ppm
Concentration per Run 1	0.0004 ppm	0.0008 ppm	0.0003 ppm	0.0007 ppm	0.0012 ppm	0.0256 ppm	-0.0008 ppm
Concentration per Run 2	0.0003 ppm	0.0006 ppm	0.0006 ppm	0.0009 ppm	0.0013 ppm	-0.0190 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0018 ppm	-0.0263 ppm	-0.0006 ppm
Recovery Percentage 1	7.342 %	2.215 %	4.388 %	7.012 %	2.888 %	-0.264 %	-8.748 %
Concentration RSD	10.0 %	110.3 %	36.5 %	33.6 %	20.5 %	426.2 %	94.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0015 ppm	0.0021 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	0.0018 ppm	0.0063 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0081 ppm	0.0007 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	-0.0012 ppm	0.0004 ppm	0.0016 ppm	-0.0080 ppm	-0.0009 ppm	-0.0008 ppm	0.0017 ppm
Recovery Percentage 1	-0.265 %	2.750 %	3.017 %	0.107 %	-0.324 %	-4.976 %	-0.073 %
Concentration RSD	313.5 %	65.2 %	22.5 %	411.6 %	997.8 %	83.5 %	5,398.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0068 ppm	0.0017 ppm	0.0004 ppm	0.0009 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	-0.0014 ppm	0.0083 ppm	0.0014 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0012 ppm	0.0066 ppm	0.0028 ppm	0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0017 ppm	0.0055 ppm	0.0009 ppm	0.0004 ppm	0.0010 ppm	-0.0007 ppm	0.0003 ppm
Recovery Percentage 1	-14.496 %	1.359 %	3.372 %	4.101 %	8.669 %	-1.129 %	3.341 %
Concentration RSD	19.0 %	21.3 %	58.5 %	11.3 %	24.0 %	191.7 %	10.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	105.3682 %	104.1956 %	107.1062 %	106.4915 %	104.4294 %	107.8582 %
Concentration per Run 1	0.0002 ppm	104.4399 %	104.5974 %	108.4377 %	105.3492 %	105.1281 %	108.8150 %
Concentration per Run 2	0.0004 ppm	105.6393 %	104.4133 %	105.5549 %	106.9944 %	104.2551 %	106.8829 %
Concentration per Run 3	0.0002 ppm	106.0253 %	103.5761 %	107.3260 %	107.1310 %	103.9051 %	107.8767 %
Recovery Percentage 1	5.504 %						
Concentration RSD	44.3 %	0.8 %	0.5 %	1.4 %	0.9 %	0.6 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-1 WG1935625
Analysis started at: 6/18/2024 6:16:46 PM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0039 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0273 ppm
Concentration per Run 1	-0.0002 ppm	-0.0021 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0247 ppm
Concentration per Run 2	0.0003 ppm	0.0065 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0283 ppm
Concentration per Run 3	0.0004 ppm	0.0072 ppm	-0.0012 ppm	-0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0290 ppm
Recovery Percentage 1	2.451 %	3.873 %	-12.057 %	-1.414 %	1.012 %	-0.200 %	27.330 %
Concentration RSD	175.9 %	134.7 %	96.6 %	231.4 %	87.9 %	305.6 %	8.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0006 ppm	0.0013 ppm	**0.1469 ppm**	-0.0114 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	-0.0009 ppm	0.0006 ppm	0.0015 ppm	0.1450 ppm	-0.0131 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0012 ppm	0.1458 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0005 ppm	0.0012 ppm	0.1499 ppm	-0.0217 ppm	-0.0023 ppm
Recovery Percentage 1	0.257 %	-3.288 %	6.056 %	12.839 %	293.782 %	-0.454 %	-16.109 %
Concentration RSD	588.1 %	32.2 %	11.7 %	16.3 %	**1.8 %**	99.3 %	159.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0066 ppm	0.0020 ppm	-0.0010 ppm	0.0132 ppm	-0.0002 ppm	-0.0007 ppm	-0.0013 ppm
Concentration per Run 1	0.0078 ppm	0.0021 ppm	-0.0009 ppm	0.0122 ppm	-0.0010 ppm	-0.0007 ppm	-0.0013 ppm
Concentration per Run 2	0.0079 ppm	0.0021 ppm	-0.0009 ppm	0.0129 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 3	0.0041 ppm	0.0019 ppm	-0.0010 ppm	0.0144 ppm	0.0005 ppm	-0.0008 ppm	-0.0027 ppm
Recovery Percentage 1	6.588 %	20.404 %	-1.937 %	0.658 %	-0.620 %	-7.310 %	-2.606 %
Concentration RSD	33.1 %	5.9 %	7.3 %	8.9 %	507.3 %	11.0 %	107.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.0122 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0133 ppm	0.0004 ppm	0.0001 ppm	0.0004 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0112 ppm	-0.0009 ppm	-0.0001 ppm	0.0005 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 3	0.0030 ppm	0.0122 ppm	0.0007 ppm	0.0000 ppm	0.0008 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage 1	5.319 %	2.442 %	0.211 %	0.113 %	5.577 %	-6.094 %	-0.221 %
Concentration RSD	397.7 %	8.4 %	811.7 %	746.9 %	40.8 %	41.5 %	555.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0029 ppm**	105.9748 %	103.4745 %	104.6050 %	106.2847 %	103.8646 %	105.6358 %
Concentration per Run 1	0.0030 ppm	106.3424 %	103.9962 %	104.8807 %	106.5108 %	104.4235 %	105.7134 %
Concentration per Run 2	0.0029 ppm	106.1292 %	102.9037 %	103.7346 %	106.2240 %	103.5313 %	104.6814 %
Concentration per Run 3	0.0027 ppm	105.4529 %	103.5236 %	105.1997 %	106.1193 %	103.6391 %	106.5126 %
Recovery Percentage 1	57.452 %						
Concentration RSD	**6.8 %**	0.4 %	0.5 %	0.7 %	0.2 %	0.5 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-2D2 WG1935625
Analysis started at: 6/18/2024 6:20:22 PM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0499 ppm	2.0144 ppm	0.1111 ppm	0.9521 ppm	1.9527 ppm	0.0504 ppm	9.7110 ppm
Concentration per Run 1	0.0492 ppm	2.0162 ppm	0.1096 ppm	0.9424 ppm	1.9653 ppm	0.0505 ppm	9.6782 ppm
Concentration per Run 2	0.0505 ppm	1.9968 ppm	0.1112 ppm	0.9589 ppm	1.9360 ppm	0.0500 ppm	9.7162 ppm
Concentration per Run 3	0.0500 ppm	2.0301 ppm	0.1124 ppm	0.9551 ppm	1.9569 ppm	0.0506 ppm	9.7384 ppm
Concentration RSD	1.4 %	0.8 %	1.3 %	0.9 %	0.8 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4911 ppm	0.1933 ppm	0.2464 ppm	1.1271 ppm	9.8207 ppm	-0.0007 ppm
Concentration per Run 1	0.0504 ppm	0.4850 ppm	0.1918 ppm	0.2437 ppm	1.1312 ppm	9.8685 ppm	-0.0005 ppm
Concentration per Run 2	0.0519 ppm	0.4975 ppm	0.1948 ppm	0.2485 ppm	1.1198 ppm	9.7236 ppm	-0.0002 ppm
Concentration per Run 3	0.0508 ppm	0.4907 ppm	0.1933 ppm	0.2471 ppm	1.1302 ppm	9.8701 ppm	-0.0016 ppm
Concentration RSD	1.5 %	1.3 %	0.8 %	1.0 %	0.6 %	0.9 %	96.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5445 ppm	0.4862 ppm	0.9655 ppm	9.8235 ppm	0.4786 ppm	0.5183 ppm	0.4999 ppm
Concentration per Run 1	9.4581 ppm	0.4864 ppm	0.9456 ppm	9.8527 ppm	0.4766 ppm	0.5194 ppm	0.4891 ppm
Concentration per Run 2	9.5772 ppm	0.4847 ppm	0.9741 ppm	9.7731 ppm	0.4824 ppm	0.5181 ppm	0.5032 ppm
Concentration per Run 3	9.5981 ppm	0.4877 ppm	0.9767 ppm	9.8448 ppm	0.4768 ppm	0.5175 ppm	0.5072 ppm
Concentration RSD	0.8 %	0.3 %	1.8 %	0.4 %	0.7 %	0.2 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1140 ppm	0.9445 ppm	0.9714 ppm	0.9298 ppm	0.9633 ppm	0.1160 ppm	0.4886 ppm
Concentration per Run 1	0.1149 ppm	0.9353 ppm	0.9644 ppm	0.9361 ppm	0.9531 ppm	0.1162 ppm	0.4843 ppm
Concentration per Run 2	0.1121 ppm	0.9520 ppm	0.9846 ppm	0.9215 ppm	0.9673 ppm	0.1177 ppm	0.4922 ppm
Concentration per Run 3	0.1150 ppm	0.9462 ppm	0.9652 ppm	0.9316 ppm	0.9696 ppm	0.1142 ppm	0.4894 ppm
Concentration RSD	1.4 %	0.9 %	1.2 %	0.8 %	0.9 %	1.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4814 ppm	104.9184 %	103.2725 %	103.5369 %	104.3759 %	102.9946 %	104.8857 %
Concentration per Run 1	0.4763 ppm	105.7274 %	103.7389 %	103.3293 %	105.2412 %	103.1117 %	104.6185 %
Concentration per Run 2	0.4863 ppm	103.6718 %	103.7536 %	103.3653 %	103.0536 %	103.6854 %	104.6805 %
Concentration per Run 3	0.4816 ppm	105.3560 %	102.3252 %	103.9160 %	104.8328 %	102.1867 %	105.3581 %
Concentration RSD	1.0 %	1.0 %	0.8 %	0.3 %	1.1 %	0.7 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-05D2 WG1935625
Analysis started at: 6/18/2024 6:23:53 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0026 ppm	50.6711 ppm	0.0177 ppm	0.0150 ppm	0.4567 ppm	0.0030 ppm	61.3269 ppm
Concentration per Run 1	0.0026 ppm	50.8289 ppm	0.0179 ppm	0.0162 ppm	0.4594 ppm	0.0030 ppm	61.7366 ppm
Concentration per Run 2	0.0031 ppm	50.4496 ppm	0.0164 ppm	0.0139 ppm	0.4559 ppm	0.0030 ppm	61.0352 ppm
Concentration per Run 3	0.0022 ppm	50.7348 ppm	0.0188 ppm	0.0150 ppm	0.4548 ppm	0.0031 ppm	61.2090 ppm
Concentration RSD	17.2 %	0.4 %	6.7 %	7.6 %	0.5 %	2.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0028 ppm	0.0284 ppm	0.1030 ppm	0.1676 ppm	96.1629 ppm	4.4425 ppm	0.0436 ppm
Concentration per Run 1	-0.0028 ppm	0.0287 ppm	0.1025 ppm	0.1680 ppm	96.6432 ppm	4.4873 ppm	0.0439 ppm
Concentration per Run 2	-0.0028 ppm	0.0282 ppm	0.1036 ppm	0.1689 ppm	95.5723 ppm	4.4073 ppm	0.0433 ppm
Concentration per Run 3	-0.0026 ppm	0.0284 ppm	0.1027 ppm	0.1660 ppm	96.2731 ppm	4.4329 ppm	0.0435 ppm
Concentration RSD	4.6 %	0.8 %	0.6 %	0.9 %	0.6 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5269 ppm	0.9272 ppm	0.0057 ppm	1.1991 ppm	0.0656 ppm	0.3673 ppm	0.0015 ppm
Concentration per Run 1	14.5290 ppm	0.9337 ppm	0.0054 ppm	1.2025 ppm	0.0660 ppm	0.3639 ppm	0.0020 ppm
Concentration per Run 2	14.6053 ppm	0.9230 ppm	0.0056 ppm	1.1933 ppm	0.0649 ppm	0.3579 ppm	0.0050 ppm
Concentration per Run 3	14.4463 ppm	0.9250 ppm	0.0062 ppm	1.2017 ppm	0.0660 ppm	0.3800 ppm	-0.0026 ppm
Concentration RSD	0.5 %	0.6 %	7.3 %	0.4 %	1.0 %	3.1 %	261.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0037 ppm	8.9057 ppm	0.0134 ppm	0.3997 ppm	1.4298 ppm	0.0012 ppm	0.1375 ppm
Concentration per Run 1	-0.0046 ppm	8.9173 ppm	0.0134 ppm	0.4012 ppm	1.4300 ppm	0.0003 ppm	0.1366 ppm
Concentration per Run 2	-0.0043 ppm	9.0148 ppm	0.0124 ppm	0.3985 ppm	1.4378 ppm	0.0013 ppm	0.1388 ppm
Concentration per Run 3	-0.0023 ppm	8.7849 ppm	0.0144 ppm	0.3996 ppm	1.4217 ppm	0.0020 ppm	0.1371 ppm
Concentration RSD	34.5 %	1.3 %	7.5 %	0.3 %	0.6 %	73.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2705 ppm	105.4039 %	105.9765 %	99.6941 %	117.8480 %	119.4975 %	118.5293 %
Concentration per Run 1	0.2694 ppm	106.3934 %	105.6177 %	101.1992 %	119.2263 %	119.3786 %	120.1144 %
Concentration per Run 2	0.2725 ppm	104.2431 %	106.8049 %	101.4981 %	116.6682 %	120.5286 %	120.8031 %
Concentration per Run 3	0.2696 ppm	105.5752 %	105.5068 %	96.3848 %	117.6494 %	118.5854 %	114.6704 %
Concentration RSD	0.7 %	1.0 %	0.7 %	2.9 %	1.1 %	0.8 %	2.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433064-06D2 WG1935625
Analysis started at: 6/18/2024 6:27:22 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	40.3040 ppm	0.0181 ppm	0.0198 ppm	0.5979 ppm	0.0034 ppm	98.9633 ppm
Concentration per Run 1	0.0033 ppm	40.0792 ppm	0.0187 ppm	0.0183 ppm	0.5968 ppm	0.0034 ppm	98.2931 ppm
Concentration per Run 2	0.0032 ppm	40.2717 ppm	0.0187 ppm	0.0205 ppm	0.5988 ppm	0.0034 ppm	98.6683 ppm
Concentration per Run 3	0.0030 ppm	40.5612 ppm	0.0169 ppm	0.0206 ppm	0.5981 ppm	0.0034 ppm	99.9285 ppm
Concentration RSD	5.1 %	0.6 %	5.9 %	6.6 %	0.2 %	0.9 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0033 ppm	0.0374 ppm	0.1323 ppm	0.1188 ppm	108.7561 ppm	4.3561 ppm	0.0500 ppm
Concentration per Run 1	-0.0034 ppm	0.0377 ppm	0.1340 ppm	0.1196 ppm	108.0347 ppm	4.3415 ppm	0.0506 ppm
Concentration per Run 2	-0.0032 ppm	0.0377 ppm	0.1329 ppm	0.1189 ppm	108.8116 ppm	4.3351 ppm	0.0496 ppm
Concentration per Run 3	-0.0033 ppm	0.0369 ppm	0.1299 ppm	0.1179 ppm	109.4219 ppm	4.3917 ppm	0.0498 ppm
Concentration RSD	3.8 %	1.2 %	1.6 %	0.7 %	0.6 %	0.7 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7799 ppm	2.2029 ppm	0.0113 ppm	1.3313 ppm	0.0806 ppm	0.1868 ppm	-0.0013 ppm
Concentration per Run 1	16.9335 ppm	2.1929 ppm	0.0110 ppm	1.3219 ppm	0.0811 ppm	0.1867 ppm	-0.0008 ppm
Concentration per Run 2	16.8724 ppm	2.2006 ppm	0.0114 ppm	1.3309 ppm	0.0814 ppm	0.1884 ppm	-0.0016 ppm
Concentration per Run 3	16.5338 ppm	2.2151 ppm	0.0114 ppm	1.3413 ppm	0.0791 ppm	0.1853 ppm	-0.0015 ppm
Concentration RSD	1.3 %	0.5 %	1.9 %	0.7 %	1.5 %	0.8 %	32.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0044 ppm	8.7518 ppm	0.0067 ppm	0.4241 ppm	1.4170 ppm	0.0019 ppm	0.1299 ppm
Concentration per Run 1	-0.0024 ppm	8.9864 ppm	0.0060 ppm	0.4224 ppm	1.4415 ppm	0.0024 ppm	0.1310 ppm
Concentration per Run 2	-0.0082 ppm	8.6574 ppm	0.0071 ppm	0.4243 ppm	1.4090 ppm	0.0018 ppm	0.1304 ppm
Concentration per Run 3	-0.0027 ppm	8.6118 ppm	0.0068 ppm	0.4256 ppm	1.4006 ppm	0.0015 ppm	0.1282 ppm
Concentration RSD	73.2 %	2.3 %	8.2 %	0.4 %	1.5 %	24.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2108 ppm	103.0727 %	104.6293 %	96.6938 %	116.4768 %	119.4802 %	117.2857 %
Concentration per Run 1	0.2124 ppm	102.3432 %	105.3526 %	96.6235 %	115.8113 %	120.2223 %	117.2351 %
Concentration per Run 2	0.2120 ppm	102.6278 %	104.8703 %	96.2651 %	115.4356 %	119.3413 %	116.4518 %
Concentration per Run 3	0.2080 ppm	104.2470 %	103.6651 %	97.1929 %	118.1835 %	118.8769 %	118.1702 %
Concentration RSD	1.2 %	1.0 %	0.8 %	0.5 %	1.3 %	0.6 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-01D2 WG1935625
Analysis started at: 6/18/2024 6:30:53 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0178 ppm	32.5704 ppm	0.3449 ppm	0.0420 ppm	0.7360 ppm	0.0042 ppm	419.2701 ppm
Concentration per Run 1	0.0175 ppm	32.3193 ppm	0.3417 ppm	0.0415 ppm	0.7279 ppm	0.0042 ppm	416.5103 ppm
Concentration per Run 2	0.0172 ppm	32.6297 ppm	0.3477 ppm	0.0417 ppm	0.7424 ppm	0.0041 ppm	421.4213 ppm
Concentration per Run 3	0.0186 ppm	32.7622 ppm	0.3454 ppm	0.0427 ppm	0.7377 ppm	0.0042 ppm	419.8788 ppm
Concentration RSD	4.1 %	0.7 %	0.9 %	1.4 %	1.0 %	0.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0034 ppm	0.0593 ppm	0.1849 ppm	1.9018 ppm	425.7241 ppm	3.3399 ppm	0.0489 ppm
Concentration per Run 1	-0.0034 ppm	0.0594 ppm	0.1849 ppm	1.9037 ppm	422.7497 ppm	3.3160 ppm	0.0488 ppm
Concentration per Run 2	-0.0032 ppm	0.0604 ppm	0.1861 ppm	1.9190 ppm	428.6256 ppm	3.3578 ppm	0.0481 ppm
Concentration per Run 3	-0.0035 ppm	0.0581 ppm	0.1838 ppm	1.8828 ppm	425.7971 ppm	3.3459 ppm	0.0498 ppm
Concentration RSD	4.8 %	2.0 %	0.6 %	1.0 %	0.7 %	0.6 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	92.7819 ppm	4.3079 ppm	0.0214 ppm	1.1055 ppm	0.2659 ppm	3.7995 ppm	0.1279 ppm
Concentration per Run 1	93.7033 ppm	4.3039 ppm	0.0216 ppm	1.0951 ppm	0.2701 ppm	3.7730 ppm	0.1254 ppm
Concentration per Run 2	92.7450 ppm	4.2986 ppm	0.0214 ppm	1.1078 ppm	0.2647 ppm	3.8054 ppm	0.1262 ppm
Concentration per Run 3	91.8975 ppm	4.3211 ppm	0.0213 ppm	1.1136 ppm	0.2628 ppm	3.8200 ppm	0.1321 ppm
Concentration RSD	1.0 %	0.3 %	0.9 %	0.9 %	1.4 %	0.6 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0109 ppm	7.9234 ppm	0.2373 ppm	0.5268 ppm	1.0908 ppm	0.0048 ppm	0.1227 ppm
Concentration per Run 1	-0.0107 ppm	8.0532 ppm	0.2412 ppm	0.5229 ppm	1.1008 ppm	0.0057 ppm	0.1234 ppm
Concentration per Run 2	-0.0113 ppm	7.8835 ppm	0.2356 ppm	0.5289 ppm	1.0922 ppm	0.0035 ppm	0.1225 ppm
Concentration per Run 3	-0.0106 ppm	7.8337 ppm	0.2350 ppm	0.5285 ppm	1.0793 ppm	0.0050 ppm	0.1223 ppm
Concentration RSD	3.6 %	1.5 %	1.4 %	0.6 %	1.0 %	23.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2566 ppm	97.9286 %	103.6451 %	84.5300 %	110.4919 %	118.0602 %	110.2232 %
Concentration per Run 1	2.2884 ppm	96.7913 %	104.0689 %	84.9068 %	109.2544 %	118.3279 %	110.2499 %
Concentration per Run 2	2.2512 ppm	98.2013 %	102.5818 %	84.1527 %	110.7981 %	117.2690 %	109.8775 %
Concentration per Run 3	2.2301 ppm	98.7930 %	104.2846 %	84.5305 %	111.4232 %	118.5836 %	110.5422 %
Concentration RSD	1.3 %	1.1 %	0.9 %	0.4 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-08D2 WG1935625
Analysis started at: 6/18/2024 6:34:23 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0137 ppm	63.8179 ppm	0.1965 ppm	0.0387 ppm	0.8009 ppm	0.0045 ppm	171.7200 ppm
Concentration per Run 1	0.0134 ppm	64.4654 ppm	0.2004 ppm	0.0393 ppm	0.8124 ppm	0.0046 ppm	173.6015 ppm
Concentration per Run 2	0.0133 ppm	63.3660 ppm	0.1936 ppm	0.0390 ppm	0.7965 ppm	0.0045 ppm	170.4561 ppm
Concentration per Run 3	0.0145 ppm	63.6223 ppm	0.1954 ppm	0.0379 ppm	0.7937 ppm	0.0045 ppm	171.1024 ppm
Concentration RSD	5.0 %	0.9 %	1.8 %	2.0 %	1.3 %	1.4 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0629 ppm	0.1789 ppm	0.9878 ppm	251.1836 ppm	5.3089 ppm	0.0876 ppm
Concentration per Run 1	0.0032 ppm	0.0630 ppm	0.1784 ppm	0.9859 ppm	254.2263 ppm	5.3458 ppm	0.0882 ppm
Concentration per Run 2	0.0032 ppm	0.0626 ppm	0.1791 ppm	0.9865 ppm	249.1719 ppm	5.3155 ppm	0.0879 ppm
Concentration per Run 3	0.0032 ppm	0.0630 ppm	0.1793 ppm	0.9911 ppm	250.1526 ppm	5.2653 ppm	0.0866 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.3 %	1.1 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.9057 ppm	4.4983 ppm	0.0124 ppm	1.1894 ppm	0.1695 ppm	2.4218 ppm	0.0201 ppm
Concentration per Run 1	58.7212 ppm	4.5546 ppm	0.0121 ppm	1.2001 ppm	0.1685 ppm	2.4184 ppm	0.0158 ppm
Concentration per Run 2	58.9282 ppm	4.4584 ppm	0.0124 ppm	1.1842 ppm	0.1695 ppm	2.4403 ppm	0.0230 ppm
Concentration per Run 3	59.0676 ppm	4.4820 ppm	0.0127 ppm	1.1840 ppm	0.1705 ppm	2.4066 ppm	0.0214 ppm
Concentration RSD	0.3 %	1.1 %	2.6 %	0.8 %	0.6 %	0.7 %	18.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	6.4403 ppm	0.1642 ppm	0.3808 ppm	0.7912 ppm	0.0030 ppm	0.1761 ppm
Concentration per Run 1	-0.0005 ppm	6.3535 ppm	0.1628 ppm	0.3874 ppm	0.7854 ppm	0.0025 ppm	0.1755 ppm
Concentration per Run 2	-0.0036 ppm	6.4651 ppm	0.1674 ppm	0.3781 ppm	0.7957 ppm	0.0021 ppm	0.1760 ppm
Concentration per Run 3	-0.0024 ppm	6.5022 ppm	0.1625 ppm	0.3770 ppm	0.7924 ppm	0.0044 ppm	0.1767 ppm
Concentration RSD	74.1 %	1.2 %	1.7 %	1.5 %	0.7 %	41.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2739 ppm	103.0952 %	106.1881 %	91.6339 %	125.8636 %	130.9570 %	125.1049 %
Concentration per Run 1	2.2662 ppm	103.5533 %	105.5227 %	91.7918 %	126.8814 %	130.1254 %	125.4214 %
Concentration per Run 2	2.2818 ppm	102.5274 %	106.5610 %	90.7191 %	125.0583 %	131.9036 %	123.9441 %
Concentration per Run 3	2.2738 ppm	103.2049 %	106.4808 %	92.3909 %	125.6510 %	130.8421 %	125.9492 %
Concentration RSD	0.3 %	0.5 %	0.5 %	0.9 %	0.7 %	0.7 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-3D2 WG1935625
Analysis started at: 6/18/2024 6:37:50 PM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0620 ppm	69.8181 ppm	0.3090 ppm	0.8768 ppm	2.6366 ppm	0.0532 ppm	282.2047 ppm
Concentration per Run 1	0.0619 ppm	69.5141 ppm	0.3073 ppm	0.8764 ppm	2.6298 ppm	0.0531 ppm	280.9667 ppm
Concentration per Run 2	0.0626 ppm	69.4550 ppm	0.3116 ppm	0.8801 ppm	2.6251 ppm	0.0529 ppm	280.5073 ppm
Concentration per Run 3	0.0615 ppm	70.4853 ppm	0.3082 ppm	0.8739 ppm	2.6548 ppm	0.0535 ppm	285.1401 ppm
Concentration RSD	0.9 %	0.8 %	0.7 %	0.4 %	0.6 %	0.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0466 ppm	0.5036 ppm	0.3728 ppm	1.1504 ppm	271.5600 ppm	15.2652 ppm	0.0903 ppm
Concentration per Run 1	0.0464 ppm	0.5036 ppm	0.3736 ppm	1.1525 ppm	271.1654 ppm	15.2966 ppm	0.0909 ppm
Concentration per Run 2	0.0475 ppm	0.5077 ppm	0.3738 ppm	1.1511 ppm	269.3725 ppm	15.1809 ppm	0.0906 ppm
Concentration per Run 3	0.0460 ppm	0.4994 ppm	0.3711 ppm	1.1475 ppm	274.1422 ppm	15.3181 ppm	0.0893 ppm
Concentration RSD	1.6 %	0.8 %	0.4 %	0.2 %	0.9 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	97.4051 ppm	5.1629 ppm	0.9434 ppm	10.9778 ppm	0.6133 ppm	2.7751 ppm	0.4497 ppm
Concentration per Run 1	97.5010 ppm	5.1614 ppm	0.9357 ppm	10.9237 ppm	0.6141 ppm	2.7652 ppm	0.4479 ppm
Concentration per Run 2	97.7793 ppm	5.1202 ppm	0.9482 ppm	10.9433 ppm	0.6156 ppm	2.7839 ppm	0.4492 ppm
Concentration per Run 3	96.9349 ppm	5.2073 ppm	0.9464 ppm	11.0664 ppm	0.6101 ppm	2.7762 ppm	0.4521 ppm
Concentration RSD	0.4 %	0.8 %	0.7 %	0.7 %	0.5 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1085 ppm	7.6467 ppm	1.0434 ppm	1.4047 ppm	1.6744 ppm	0.1099 ppm	0.6530 ppm
Concentration per Run 1	0.1048 ppm	7.6921 ppm	1.0406 ppm	1.4013 ppm	1.6794 ppm	0.1090 ppm	0.6547 ppm
Concentration per Run 2	0.1102 ppm	7.6759 ppm	1.0458 ppm	1.3965 ppm	1.6728 ppm	0.1104 ppm	0.6554 ppm
Concentration per Run 3	0.1104 ppm	7.5720 ppm	1.0437 ppm	1.4162 ppm	1.6712 ppm	0.1103 ppm	0.6489 ppm
Concentration RSD	2.9 %	0.9 %	0.3 %	0.7 %	0.3 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4996 ppm	100.8392 %	105.2510 %	88.3629 %	123.0075 %	129.5828 %	122.0159 %
Concentration per Run 1	2.4987 ppm	101.4666 %	105.2737 %	88.6266 %	124.0806 %	129.2093 %	122.7566 %
Concentration per Run 2	2.5150 ppm	100.2133 %	106.3007 %	87.7062 %	121.7730 %	130.8922 %	121.0182 %
Concentration per Run 3	2.4849 ppm	100.8377 %	104.1785 %	88.7558 %	123.1688 %	128.6469 %	122.2729 %
Concentration RSD	0.6 %	0.6 %	1.0 %	0.6 %	0.9 %	0.9 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-4D2 WG1935625
Analysis started at: 6/18/2024 6:41:18 PM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0609 ppm	66.2280 ppm	0.3076 ppm	0.8630 ppm	2.6545 ppm	0.0516 ppm	149.5683 ppm
Concentration per Run 1	0.0601 ppm	66.6468 ppm	0.3095 ppm	0.8556 ppm	2.6708 ppm	0.0519 ppm	150.5108 ppm
Concentration per Run 2	0.0604 ppm	66.2776 ppm	0.3103 ppm	0.8549 ppm	2.6491 ppm	0.0515 ppm	148.6875 ppm
Concentration per Run 3	0.0623 ppm	65.7597 ppm	0.3031 ppm	0.8786 ppm	2.6436 ppm	0.0515 ppm	149.5066 ppm
Concentration RSD	2.0 %	0.7 %	1.3 %	1.6 %	0.5 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0485 ppm	0.5041 ppm	0.3681 ppm	1.2461 ppm	257.0462 ppm	14.4255 ppm	0.0922 ppm
Concentration per Run 1	0.0480 ppm	0.5014 ppm	0.3647 ppm	1.2366 ppm	258.7419 ppm	14.4766 ppm	0.0936 ppm
Concentration per Run 2	0.0479 ppm	0.4974 ppm	0.3640 ppm	1.2290 ppm	255.5991 ppm	14.4019 ppm	0.0909 ppm
Concentration per Run 3	0.0496 ppm	0.5135 ppm	0.3756 ppm	1.2726 ppm	256.7977 ppm	14.3980 ppm	0.0920 ppm
Concentration RSD	2.0 %	1.7 %	1.8 %	1.9 %	0.6 %	0.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.0813 ppm	4.5519 ppm	0.9269 ppm	10.5426 ppm	0.6066 ppm	2.6863 ppm	0.4509 ppm
Concentration per Run 1	64.5764 ppm	4.5691 ppm	0.9083 ppm	10.6622 ppm	0.5994 ppm	2.6895 ppm	0.4457 ppm
Concentration per Run 2	64.1429 ppm	4.5398 ppm	0.9163 ppm	10.4980 ppm	0.6015 ppm	2.6894 ppm	0.4481 ppm
Concentration per Run 3	66.5247 ppm	4.5469 ppm	0.9562 ppm	10.4675 ppm	0.6190 ppm	2.6800 ppm	0.4589 ppm
Concentration RSD	1.9 %	0.3 %	2.8 %	1.0 %	1.8 %	0.2 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1067 ppm	7.1780 ppm	1.0631 ppm	1.2902 ppm	1.5299 ppm	0.1064 ppm	0.6464 ppm
Concentration per Run 1	0.1099 ppm	7.2072 ppm	1.0570 ppm	1.2964 ppm	1.5184 ppm	0.1069 ppm	0.6418 ppm
Concentration per Run 2	0.1059 ppm	7.0679 ppm	1.0487 ppm	1.2916 ppm	1.5065 ppm	0.1058 ppm	0.6380 ppm
Concentration per Run 3	0.1042 ppm	7.2588 ppm	1.0837 ppm	1.2825 ppm	1.5649 ppm	0.1066 ppm	0.6593 ppm
Concentration RSD	2.8 %	1.4 %	1.7 %	0.5 %	2.0 %	0.5 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6496 ppm	101.5201 %	105.4338 %	91.9944 %	120.9039 %	125.3556 %	121.1968 %
Concentration per Run 1	2.6377 ppm	101.7160 %	104.2733 %	92.0297 %	120.8366 %	124.1658 %	121.2168 %
Concentration per Run 2	2.6049 ppm	103.6681 %	106.9730 %	91.8234 %	123.9455 %	127.0656 %	120.8898 %
Concentration per Run 3	2.7062 ppm	99.1763 %	105.0551 %	92.1301 %	117.9296 %	124.8355 %	121.4837 %
Concentration RSD	1.9 %	2.2 %	1.3 %	0.2 %	2.5 %	1.2 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-5D2 WG1935625
Analysis started at: 6/18/2024 6:44:46 PM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0597 ppm	63.9635 ppm	0.3084 ppm	0.9348 ppm	2.5754 ppm	0.0506 ppm	176.3705 ppm
Concentration per Run 1	0.0600 ppm	64.4422 ppm	0.3117 ppm	0.9365 ppm	2.5877 ppm	0.0511 ppm	178.0235 ppm
Concentration per Run 2	0.0596 ppm	63.7162 ppm	0.3060 ppm	0.9408 ppm	2.5760 ppm	0.0505 ppm	175.8009 ppm
Concentration per Run 3	0.0597 ppm	63.7322 ppm	0.3074 ppm	0.9269 ppm	2.5626 ppm	0.0503 ppm	175.2871 ppm
Concentration RSD	0.4 %	0.6 %	1.0 %	0.8 %	0.5 %	0.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0488 ppm	0.4888 ppm	0.3490 ppm	1.1873 ppm	244.9853 ppm	14.9770 ppm	0.0840 ppm
Concentration per Run 1	0.0504 ppm	0.4922 ppm	0.3489 ppm	1.1858 ppm	247.1371 ppm	15.0916 ppm	0.0842 ppm
Concentration per Run 2	0.0486 ppm	0.4905 ppm	0.3512 ppm	1.2029 ppm	245.0385 ppm	14.9657 ppm	0.0841 ppm
Concentration per Run 3	0.0475 ppm	0.4837 ppm	0.3470 ppm	1.1732 ppm	242.7803 ppm	14.8737 ppm	0.0838 ppm
Concentration RSD	2.9 %	0.9 %	0.6 %	1.3 %	0.9 %	0.7 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.3305 ppm	4.7926 ppm	0.9293 ppm	10.9422 ppm	0.5928 ppm	2.8515 ppm	0.4790 ppm
Concentration per Run 1	66.3676 ppm	4.8432 ppm	0.9173 ppm	10.9823 ppm	0.5904 ppm	2.8480 ppm	0.4785 ppm
Concentration per Run 2	66.6409 ppm	4.7585 ppm	0.9349 ppm	10.9693 ppm	0.5992 ppm	2.8527 ppm	0.4839 ppm
Concentration per Run 3	65.9831 ppm	4.7760 ppm	0.9355 ppm	10.8750 ppm	0.5887 ppm	2.8537 ppm	0.4746 ppm
Concentration RSD	0.5 %	0.9 %	1.1 %	0.5 %	0.9 %	0.1 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1147 ppm	7.3345 ppm	1.0675 ppm	1.2696 ppm	1.7041 ppm	0.1144 ppm	0.6257 ppm
Concentration per Run 1	0.1171 ppm	7.3766 ppm	1.0553 ppm	1.2768 ppm	1.7179 ppm	0.1134 ppm	0.6265 ppm
Concentration per Run 2	0.1141 ppm	7.3813 ppm	1.0781 ppm	1.2677 ppm	1.7061 ppm	0.1176 ppm	0.6291 ppm
Concentration per Run 3	0.1129 ppm	7.2455 ppm	1.0691 ppm	1.2644 ppm	1.6884 ppm	0.1122 ppm	0.6216 ppm
Concentration RSD	1.9 %	1.1 %	1.1 %	0.5 %	0.9 %	2.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.6394 ppm	102.4744 %	106.3856 %	93.1810 %	124.4193 %	130.7415 %	126.0485 %
Concentration per Run 1	2.6277 ppm	102.4913 %	105.5416 %	94.4324 %	124.3236 %	129.9311 %	127.9322 %
Concentration per Run 2	2.6618 ppm	102.3064 %	106.4066 %	92.2324 %	124.6400 %	130.3235 %	124.7621 %
Concentration per Run 3	2.6288 ppm	102.6254 %	107.2086 %	92.8781 %	124.2941 %	131.9700 %	125.4512 %
Concentration RSD	0.7 %	0.2 %	0.8 %	1.2 %	0.2 %	0.8 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935625-6D10 WG1935625
Analysis started at: 6/18/2024 6:48:14 PM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0030 ppm	12.7973 ppm	0.0373 ppm	0.0080 ppm	0.1612 ppm	0.0009 ppm	35.8146 ppm
Concentration per Run 1	0.0030 ppm	12.8460 ppm	0.0382 ppm	0.0074 ppm	0.1618 ppm	0.0009 ppm	35.8364 ppm
Concentration per Run 2	0.0031 ppm	12.6647 ppm	0.0379 ppm	0.0089 ppm	0.1591 ppm	0.0009 ppm	35.5641 ppm
Concentration per Run 3	0.0028 ppm	12.8811 ppm	0.0358 ppm	0.0077 ppm	0.1626 ppm	0.0009 ppm	36.0433 ppm
Concentration RSD	5.2 %	0.9 %	3.6 %	10.0 %	1.1 %	1.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0130 ppm	0.0373 ppm	0.2024 ppm	54.2323 ppm	1.0681 ppm	0.0166 ppm
Concentration per Run 1	0.0007 ppm	0.0131 ppm	0.0374 ppm	0.2031 ppm	54.2791 ppm	1.1007 ppm	0.0181 ppm
Concentration per Run 2	0.0008 ppm	0.0137 ppm	0.0374 ppm	0.2014 ppm	53.5527 ppm	1.0376 ppm	0.0151 ppm
Concentration per Run 3	0.0006 ppm	0.0124 ppm	0.0371 ppm	0.2026 ppm	54.8650 ppm	1.0661 ppm	0.0166 ppm
Concentration RSD	12.9 %	5.1 %	0.4 %	0.4 %	1.2 %	3.0 %	8.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.5182 ppm	0.9322 ppm	0.0054 ppm	0.2330 ppm	0.0367 ppm	0.4863 ppm	0.0055 ppm
Concentration per Run 1	12.5404 ppm	0.9318 ppm	0.0056 ppm	0.2325 ppm	0.0358 ppm	0.4889 ppm	0.0089 ppm
Concentration per Run 2	12.5755 ppm	0.9257 ppm	0.0051 ppm	0.2337 ppm	0.0368 ppm	0.4848 ppm	0.0051 ppm
Concentration per Run 3	12.4387 ppm	0.9390 ppm	0.0056 ppm	0.2329 ppm	0.0374 ppm	0.4852 ppm	0.0026 ppm
Concentration RSD	0.6 %	0.7 %	4.8 %	0.2 %	2.3 %	0.5 %	57.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	1.3939 ppm	0.0381 ppm	0.0762 ppm	0.1626 ppm	0.0008 ppm	0.0362 ppm
Concentration per Run 1	-0.0031 ppm	1.3910 ppm	0.0382 ppm	0.0766 ppm	0.1615 ppm	0.0003 ppm	0.0360 ppm
Concentration per Run 2	-0.0014 ppm	1.3708 ppm	0.0373 ppm	0.0750 ppm	0.1646 ppm	0.0016 ppm	0.0363 ppm
Concentration per Run 3	-0.0001 ppm	1.4200 ppm	0.0387 ppm	0.0770 ppm	0.1619 ppm	0.0005 ppm	0.0362 ppm
Concentration RSD	94.5 %	1.8 %	1.9 %	1.4 %	1.0 %	86.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4847 ppm	103.7912 %	102.9890 %	101.3275 %	108.8431 %	107.6631 %	108.9581 %
Concentration per Run 1	0.4865 ppm	104.2453 %	102.6156 %	100.3539 %	109.5031 %	107.4869 %	107.8584 %
Concentration per Run 2	0.4838 ppm	103.1368 %	104.4898 %	102.1519 %	107.7885 %	109.0189 %	110.0377 %
Concentration per Run 3	0.4839 ppm	103.9916 %	101.8615 %	101.4765 %	109.2378 %	106.4834 %	108.9782 %
Concentration RSD	0.3 %	0.6 %	1.3 %	0.9 %	0.8 %	1.2 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:51:42 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4877 ppm	0.4675 ppm	0.4591 ppm	0.4794 ppm	0.4829 ppm	0.5004 ppm	0.4747 ppm
Concentration per Run 1	0.4884 ppm	0.4658 ppm	0.4594 ppm	0.4817 ppm	0.4819 ppm	0.4968 ppm	0.4767 ppm
Concentration per Run 2	0.4908 ppm	0.4641 ppm	0.4577 ppm	0.4794 ppm	0.4812 ppm	0.4992 ppm	0.4722 ppm
Concentration per Run 3	0.4839 ppm	0.4726 ppm	0.4604 ppm	0.4771 ppm	0.4855 ppm	0.5051 ppm	0.4752 ppm
Recovery Percentage 1	97.534 %	93.503 %	91.829 %	95.875 %	96.574 %	100.072 %	94.944 %
Concentration RSD	0.7 %	1.0 %	0.3 %	0.5 %	0.5 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4837 ppm	0.4962 ppm	0.4740 ppm	0.4810 ppm	0.5013 ppm	4.9512 ppm	0.4824 ppm
Concentration per Run 1	0.4896 ppm	0.5014 ppm	0.4759 ppm	0.4810 ppm	0.4997 ppm	4.9552 ppm	0.4820 ppm
Concentration per Run 2	0.4833 ppm	0.4972 ppm	0.4740 ppm	0.4865 ppm	0.5019 ppm	4.9056 ppm	0.4792 ppm
Concentration per Run 3	0.4782 ppm	0.4898 ppm	0.4721 ppm	0.4755 ppm	0.5023 ppm	4.9929 ppm	0.4859 ppm
Recovery Percentage 1	96.742 %	99.231 %	94.800 %	96.197 %	100.255 %	99.025 %	96.471 %
Concentration RSD	1.2 %	1.2 %	0.4 %	1.1 %	0.3 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4746 ppm	0.4783 ppm	0.4845 ppm	9.6108 ppm	0.4897 ppm	0.4864 ppm	0.4845 ppm
Concentration per Run 1	0.4769 ppm	0.4764 ppm	0.4826 ppm	9.5695 ppm	0.4915 ppm	0.4872 ppm	0.4837 ppm
Concentration per Run 2	0.4766 ppm	0.4782 ppm	0.4853 ppm	9.5670 ppm	0.4897 ppm	0.4823 ppm	0.4903 ppm
Concentration per Run 3	0.4703 ppm	0.4801 ppm	0.4856 ppm	9.6961 ppm	0.4877 ppm	0.4896 ppm	0.4795 ppm
Recovery Percentage 1	94.919 %	95.650 %	96.906 %	96.108 %	97.930 %	97.276 %	96.898 %
Concentration RSD	0.8 %	0.4 %	0.3 %	0.8 %	0.4 %	0.8 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4757 ppm	5.4883 ppm	0.5084 ppm	0.4927 ppm	0.4846 ppm	0.4861 ppm	0.4732 ppm
Concentration per Run 1	0.4751 ppm	5.4803 ppm	0.5104 ppm	0.4913 ppm	0.4872 ppm	0.4861 ppm	0.4753 ppm
Concentration per Run 2	0.4701 ppm	5.5327 ppm	0.5084 ppm	0.4911 ppm	0.4845 ppm	0.4820 ppm	0.4752 ppm
Concentration per Run 3	0.4818 ppm	5.4517 ppm	0.5065 ppm	0.4956 ppm	0.4822 ppm	0.4902 ppm	0.4691 ppm
Recovery Percentage 1	95.137 %	104.538 %	101.688 %	98.535 %	96.927 %	97.215 %	94.639 %
Concentration RSD	1.2 %	0.7 %	0.4 %	0.5 %	0.5 %	0.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4875 ppm	107.3113 %	103.4385 %	104.8510 %	107.3038 %	103.1036 %	105.4587 %
Concentration per Run 1	0.4913 ppm	105.7972 %	103.3503 %	104.3311 %	105.4693 %	103.7980 %	104.8102 %
Concentration per Run 2	0.4866 ppm	108.1613 %	104.2549 %	105.3584 %	108.1161 %	103.2016 %	106.1358 %
Concentration per Run 3	0.4847 ppm	107.9755 %	102.7103 %	104.8635 %	108.3261 %	102.3113 %	105.4302 %
Recovery Percentage 1	97.501 %						
Concentration RSD	0.7 %	1.2 %	0.8 %	0.5 %	1.5 %	0.7 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:55:11 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	-0.0072 ppm	0.0004 ppm	0.0006 ppm	0.0002 ppm	0.0004 ppm	0.0041 ppm
Concentration per Run 1	0.0004 ppm	0.0014 ppm	-0.0005 ppm	0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0054 ppm
Concentration per Run 2	0.0011 ppm	-0.0108 ppm	0.0013 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm	0.0028 ppm
Concentration per Run 3	0.0008 ppm	-0.0121 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0004 ppm	0.0042 ppm
Recovery Percentage 1	10.834 %	-7.179 %	7.036 %	1.911 %	2.213 %	9.717 %	4.133 %
Concentration RSD	49.5 %	103.4 %	260.1 %	191.0 %	9.3 %	3.8 %	30.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0016 ppm	-0.0051 ppm	-0.0010 ppm
Concentration per Run 1	0.0004 ppm	-0.0003 ppm	0.0005 ppm	0.0009 ppm	0.0020 ppm	-0.0025 ppm	-0.0013 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0018 ppm	-0.0168 ppm	-0.0006 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0007 ppm	0.0010 ppm	0.0011 ppm	0.0039 ppm	-0.0011 ppm
Recovery Percentage 1	7.712 %	-0.470 %	4.988 %	8.306 %	3.252 %	-0.206 %	-20.606 %
Concentration RSD	27.6 %	262.0 %	45.6 %	29.2 %	29.4 %	206.0 %	35.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0005 ppm	0.0022 ppm	0.0004 ppm	0.0004 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 1	-0.0033 ppm	0.0005 ppm	0.0026 ppm	0.0041 ppm	0.0013 ppm	0.0011 ppm	-0.0042 ppm
Concentration per Run 2	-0.0005 ppm	0.0005 ppm	0.0019 ppm	-0.0037 ppm	-0.0007 ppm	0.0002 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0020 ppm	0.0009 ppm	0.0008 ppm	0.0010 ppm	-0.0008 ppm
Recovery Percentage 1	-1.276 %	5.155 %	4.312 %	0.021 %	1.772 %	7.662 %	-1.404 %
Concentration RSD	135.4 %	15.8 %	17.1 %	930.8 %	231.6 %	61.5 %	499.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	0.0071 ppm	0.0016 ppm	0.0004 ppm	0.0008 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0028 ppm	0.0076 ppm	0.0019 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 2	-0.0013 ppm	0.0063 ppm	0.0018 ppm	0.0005 ppm	0.0006 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 3	-0.0034 ppm	0.0075 ppm	0.0011 ppm	0.0002 ppm	0.0006 ppm	0.0011 ppm	0.0004 ppm
Recovery Percentage 1	-25.126 %	1.428 %	3.195 %	3.501 %	7.650 %	-0.572 %	2.103 %
Concentration RSD	42.4 %	9.8 %	24.9 %	38.6 %	31.5 %	1,167.4 %	67.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	105.9750 %	102.9830 %	105.1657 %	107.2077 %	103.1732 %	105.9077 %
Concentration per Run 1	0.0002 ppm	105.4714 %	103.6667 %	105.7734 %	106.8438 %	103.8882 %	106.7112 %
Concentration per Run 2	0.0005 ppm	106.5508 %	100.7964 %	105.5583 %	107.7634 %	101.3131 %	106.2783 %
Concentration per Run 3	0.0008 ppm	105.9028 %	104.4860 %	104.1654 %	107.0159 %	104.3181 %	104.7335 %
Recovery Percentage 1	9.942 %						
Concentration RSD	55.1 %	0.5 %	1.9 %	0.8 %	0.5 %	1.6 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR 500 Fe pass
Analysis started at: 6/18/2024 7:01:12 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0131 ppm	0.0081 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 1	0.0145 ppm	-0.0009 ppm	-0.0020 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 2	0.0115 ppm	0.0111 ppm	0.0008 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 3	0.0134 ppm	0.0141 ppm	0.0014 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0129 ppm
Concentration RSD	11.3 %	98.1 %	2,199.0 %	756.7 %	38.9 %	299.1 %	46.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0153 ppm	-0.0037 ppm	0.0069 ppm	0.0239 ppm	470.9240 ppm	-0.0791 ppm	-0.0013 ppm
Concentration per Run 1	-0.0158 ppm	-0.0041 ppm	0.0079 ppm	0.0259 ppm	475.1608 ppm	-0.0822 ppm	-0.0019 ppm
Concentration per Run 2	-0.0148 ppm	-0.0041 ppm	0.0062 ppm	0.0229 ppm	465.9133 ppm	-0.0863 ppm	-0.0008 ppm
Concentration per Run 3	-0.0154 ppm	-0.0030 ppm	0.0067 ppm	0.0230 ppm	471.6979 ppm	-0.0687 ppm	-0.0013 ppm
Concentration RSD	3.3 %	17.7 %	12.8 %	7.2 %	1.0 %	11.7 %	43.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0374 ppm	-0.0024 ppm	-0.0045 ppm	0.0022 ppm	-0.0019 ppm	-0.0086 ppm	-0.0076 ppm
Concentration per Run 1	0.0401 ppm	-0.0026 ppm	-0.0044 ppm	0.0019 ppm	-0.0012 ppm	-0.0088 ppm	-0.0100 ppm
Concentration per Run 2	0.0377 ppm	-0.0025 ppm	-0.0042 ppm	-0.0004 ppm	-0.0017 ppm	-0.0082 ppm	-0.0050 ppm
Concentration per Run 3	0.0344 ppm	-0.0023 ppm	-0.0048 ppm	0.0050 ppm	-0.0027 ppm	-0.0087 ppm	-0.0078 ppm
Concentration RSD	7.7 %	6.9 %	6.4 %	124.2 %	40.4 %	3.8 %	32.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0076 ppm	0.0022 ppm	0.0014 ppm	0.0004 ppm	0.0001 ppm	0.0005 ppm	0.0025 ppm
Concentration per Run 1	-0.0062 ppm	0.0039 ppm	0.0021 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 2	-0.0055 ppm	0.0015 ppm	0.0011 ppm	0.0005 ppm	-0.0002 ppm	0.0010 ppm	0.0029 ppm
Concentration per Run 3	-0.0109 ppm	0.0011 ppm	0.0011 ppm	0.0004 ppm	0.0007 ppm	0.0007 ppm	0.0022 ppm
Concentration RSD	39.2 %	69.6 %	36.8 %	24.2 %	475.8 %	128.5 %	14.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	102.2018 %	102.7973 %	93.0086 %	101.7219 %	102.2420 %	101.6525 %
Concentration per Run 1	0.0000 ppm	100.3813 %	103.7457 %	93.6370 %	99.6737 %	102.9633 %	102.6401 %
Concentration per Run 2	-0.0002 ppm	103.3819 %	102.7660 %	93.0349 %	102.7434 %	102.5139 %	101.6109 %
Concentration per Run 3	-0.0001 ppm	102.8421 %	101.8803 %	92.3538 %	102.7485 %	101.2489 %	100.7065 %
Concentration RSD	107.1 %	1.6 %	0.9 %	0.7 %	1.7 %	0.9 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LDR 1000 Ca pass
Analysis started at: 6/18/2024 7:04:44 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0153 ppm	-0.0060 ppm	0.0012 ppm	0.0008 ppm	0.0000 ppm	915.6537 ppm
Concentration per Run 1	0.0000 ppm	0.0053 ppm	-0.0071 ppm	0.0021 ppm	0.0009 ppm	0.0000 ppm	913.0687 ppm
Concentration per Run 2	-0.0009 ppm	0.0246 ppm	-0.0064 ppm	0.0032 ppm	0.0006 ppm	0.0000 ppm	911.9230 ppm
Concentration per Run 3	-0.0008 ppm	0.0159 ppm	-0.0046 ppm	-0.0017 ppm	0.0010 ppm	0.0000 ppm	921.9694 ppm
Concentration RSD	87.4 %	63.5 %	21.3 %	218.1 %	23.6 %	87.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	0.0094 ppm	-0.0110 ppm	-0.0149 ppm
Concentration per Run 1	0.0046 ppm	0.0004 ppm	0.0004 ppm	0.0009 ppm	0.0099 ppm	-0.0135 ppm	-0.0148 ppm
Concentration per Run 2	0.0046 ppm	0.0003 ppm	0.0002 ppm	0.0009 ppm	0.0091 ppm	-0.0150 ppm	-0.0148 ppm
Concentration per Run 3	0.0042 ppm	-0.0002 ppm	0.0007 ppm	0.0010 ppm	0.0093 ppm	-0.0044 ppm	-0.0149 ppm
Concentration RSD	5.2 %	193.0 %	60.8 %	3.7 %	4.4 %	52.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0020 ppm	0.0003 ppm	-0.0008 ppm	-0.0009 ppm	0.0004 ppm	0.0002 ppm	-0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	-0.0002 ppm	-0.0044 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0038 ppm	0.0003 ppm	-0.0015 ppm	-0.0067 ppm	0.0004 ppm	0.0008 ppm	-0.0020 ppm
Concentration per Run 3	0.0018 ppm	0.0002 ppm	-0.0008 ppm	0.0084 ppm	0.0003 ppm	0.0002 ppm	-0.0032 ppm
Concentration RSD	83.3 %	20.8 %	78.1 %	887.1 %	33.1 %	327.4 %	110.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0263 ppm	0.0073 ppm	0.0000 ppm	-0.0012 ppm	0.0052 ppm	0.0009 ppm	0.0008 ppm
Concentration per Run 1	-0.0274 ppm	0.0055 ppm	-0.0010 ppm	-0.0012 ppm	0.0055 ppm	0.0014 ppm	0.0008 ppm
Concentration per Run 2	-0.0240 ppm	0.0096 ppm	-0.0004 ppm	-0.0012 ppm	0.0051 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 3	-0.0277 ppm	0.0068 ppm	0.0015 ppm	-0.0012 ppm	0.0050 ppm	0.0016 ppm	0.0009 ppm
Concentration RSD	7.7 %	29.0 %	3,332.6 %	3.4 %	4.9 %	101.8 %	14.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	93.1672 %	98.3667 %	81.7541 %	92.9313 %	98.2808 %	92.3409 %
Concentration per Run 1	0.0019 ppm	93.0611 %	98.4332 %	81.8261 %	93.0268 %	98.6348 %	92.5396 %
Concentration per Run 2	0.0020 ppm	92.8011 %	98.9831 %	81.9199 %	92.3789 %	98.4187 %	92.5531 %
Concentration per Run 3	0.0018 ppm	93.6396 %	97.6837 %	81.5162 %	93.3881 %	97.7889 %	91.9301 %
Concentration RSD	6.0 %	0.5 %	0.7 %	0.3 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-02D2 WG1935625
Analysis started at: 6/18/2024 7:18:41 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0178 ppm	31.8242 ppm	0.2183 ppm	0.0488 ppm	0.6536 ppm	0.0040 ppm	726.6968 ppm
Concentration per Run 1	0.0175 ppm	32.0236 ppm	0.2158 ppm	0.0473 ppm	0.6574 ppm	0.0040 ppm	732.4562 ppm
Concentration per Run 2	0.0178 ppm	31.7478 ppm	0.2198 ppm	0.0501 ppm	0.6530 ppm	0.0041 ppm	725.6768 ppm
Concentration per Run 3	0.0180 ppm	31.7014 ppm	0.2194 ppm	0.0489 ppm	0.6504 ppm	0.0040 ppm	721.9573 ppm
Concentration RSD	1.6 %	0.5 %	1.0 %	2.9 %	0.5 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0826 ppm	0.0491 ppm	0.1577 ppm	1.4811 ppm	313.2878 ppm	4.9876 ppm	0.0450 ppm
Concentration per Run 1	0.0808 ppm	0.0492 ppm	0.1576 ppm	1.4858 ppm	315.4643 ppm	5.0472 ppm	0.0461 ppm
Concentration per Run 2	0.0845 ppm	0.0494 ppm	0.1591 ppm	1.4805 ppm	313.6636 ppm	4.9645 ppm	0.0461 ppm
Concentration per Run 3	0.0823 ppm	0.0488 ppm	0.1564 ppm	1.4770 ppm	310.7356 ppm	4.9511 ppm	0.0428 ppm
Concentration RSD	2.2 %	0.7 %	0.9 %	0.3 %	0.8 %	1.0 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	177.9240 ppm	4.1903 ppm	0.0211 ppm	1.0786 ppm	0.2344 ppm	3.1160 ppm	0.0450 ppm
Concentration per Run 1	177.4059 ppm	4.2087 ppm	0.0208 ppm	1.0851 ppm	0.2338 ppm	3.1346 ppm	0.0425 ppm
Concentration per Run 2	179.3269 ppm	4.1869 ppm	0.0206 ppm	1.0815 ppm	0.2375 ppm	3.1137 ppm	0.0453 ppm
Concentration per Run 3	177.0393 ppm	4.1754 ppm	0.0220 ppm	1.0692 ppm	0.2318 ppm	3.0998 ppm	0.0471 ppm
Concentration RSD	0.7 %	0.4 %	3.6 %	0.8 %	1.2 %	0.6 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0182 ppm	6.7043 ppm	0.1730 ppm	0.6275 ppm	0.7921 ppm	0.0035 ppm	0.1318 ppm
Concentration per Run 1	-0.0166 ppm	6.6324 ppm	0.1746 ppm	0.6298 ppm	0.7896 ppm	0.0035 ppm	0.1325 ppm
Concentration per Run 2	-0.0184 ppm	6.8259 ppm	0.1747 ppm	0.6266 ppm	0.8000 ppm	0.0025 ppm	0.1313 ppm
Concentration per Run 3	-0.0195 ppm	6.6547 ppm	0.1697 ppm	0.6261 ppm	0.7866 ppm	0.0046 ppm	0.1317 ppm
Concentration RSD	8.1 %	1.6 %	1.7 %	0.3 %	0.9 %	29.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	33.1295 ppm	92.4155 %	98.0116 %	79.6994 %	106.3266 %	114.0184 %	106.6997 %
Concentration per Run 1	33.3043 ppm	91.4677 %	97.3662 %	78.9135 %	105.2890 %	113.3435 %	105.7404 %
Concentration per Run 2	33.4111 ppm	92.3167 %	97.6100 %	80.1527 %	106.1485 %	113.3733 %	107.4145 %
Concentration per Run 3	32.6730 ppm	93.4622 %	99.0587 %	80.0319 %	107.5421 %	115.3383 %	106.9441 %
Concentration RSD	1.2 %	1.1 %	0.9 %	0.9 %	1.1 %	1.0 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-03D2 WG1935625
Analysis started at: 6/18/2024 7:22:15 PM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0160 ppm	42.8913 ppm	0.2798 ppm	0.0384 ppm	0.7984 ppm	0.0051 ppm	242.9797 ppm
Concentration per Run 1	0.0159 ppm	43.1324 ppm	0.2795 ppm	0.0374 ppm	0.8043 ppm	0.0051 ppm	243.4426 ppm
Concentration per Run 2	0.0163 ppm	42.8441 ppm	0.2803 ppm	0.0374 ppm	0.7992 ppm	0.0050 ppm	242.7558 ppm
Concentration per Run 3	0.0160 ppm	42.6973 ppm	0.2797 ppm	0.0402 ppm	0.7917 ppm	0.0050 ppm	242.7407 ppm
Concentration RSD	1.3 %	0.5 %	0.1 %	4.2 %	0.8 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0033 ppm	0.0576 ppm	0.1559 ppm	1.1381 ppm	369.4968 ppm	4.0090 ppm	0.0636 ppm
Concentration per Run 1	-0.0030 ppm	0.0575 ppm	0.1545 ppm	1.1340 ppm	370.5624 ppm	4.0487 ppm	0.0645 ppm
Concentration per Run 2	-0.0033 ppm	0.0568 ppm	0.1557 ppm	1.1267 ppm	369.7687 ppm	3.9964 ppm	0.0626 ppm
Concentration per Run 3	-0.0037 ppm	0.0584 ppm	0.1576 ppm	1.1536 ppm	368.1594 ppm	3.9818 ppm	0.0636 ppm
Concentration RSD	10.6 %	1.4 %	1.0 %	1.2 %	0.3 %	0.9 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	108.7142 ppm	3.8298 ppm	0.0164 ppm	1.3141 ppm	0.1620 ppm	3.1824 ppm	0.0425 ppm
Concentration per Run 1	107.7785 ppm	3.8242 ppm	0.0156 ppm	1.3148 ppm	0.1615 ppm	3.2003 ppm	0.0438 ppm
Concentration per Run 2	108.5773 ppm	3.8513 ppm	0.0160 ppm	1.3184 ppm	0.1616 ppm	3.1594 ppm	0.0421 ppm
Concentration per Run 3	109.7869 ppm	3.8140 ppm	0.0174 ppm	1.3091 ppm	0.1629 ppm	3.1875 ppm	0.0416 ppm
Concentration RSD	0.9 %	0.5 %	5.9 %	0.4 %	0.5 %	0.7 %	2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0044 ppm	5.7634 ppm	0.1465 ppm	0.4449 ppm	1.0461 ppm	0.0057 ppm	0.1522 ppm
Concentration per Run 1	-0.0025 ppm	5.7896 ppm	0.1446 ppm	0.4458 ppm	1.0422 ppm	0.0055 ppm	0.1508 ppm
Concentration per Run 2	-0.0016 ppm	5.7229 ppm	0.1447 ppm	0.4455 ppm	1.0431 ppm	0.0060 ppm	0.1518 ppm
Concentration per Run 3	-0.0092 ppm	5.7778 ppm	0.1502 ppm	0.4434 ppm	1.0530 ppm	0.0056 ppm	0.1539 ppm
Concentration RSD	92.8 %	0.6 %	2.2 %	0.3 %	0.6 %	4.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4261 ppm	99.9569 %	102.1913 %	88.1496 %	115.5970 %	118.9116 %	115.3048 %
Concentration per Run 1	2.4085 ppm	100.9383 %	101.3111 %	87.8530 %	116.8204 %	117.4434 %	115.1322 %
Concentration per Run 2	2.4225 ppm	100.0953 %	102.9607 %	88.6364 %	115.6180 %	120.1301 %	115.7432 %
Concentration per Run 3	2.4472 ppm	98.8371 %	102.3021 %	87.9595 %	114.3527 %	119.1615 %	115.0389 %
Concentration RSD	0.8 %	1.1 %	0.8 %	0.5 %	1.1 %	1.1 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-04D2 WG1935625
Analysis started at: 6/18/2024 7:25:44 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0110 ppm	43.1435 ppm	0.2522 ppm	0.0448 ppm	0.6480 ppm	0.0047 ppm	366.0897 ppm
Concentration per Run 1	0.0108 ppm	43.1175 ppm	0.2527 ppm	0.0440 ppm	0.6486 ppm	0.0047 ppm	367.1086 ppm
Concentration per Run 2	0.0111 ppm	43.4000 ppm	0.2515 ppm	0.0436 ppm	0.6503 ppm	0.0047 ppm	366.7984 ppm
Concentration per Run 3	0.0111 ppm	42.9130 ppm	0.2523 ppm	0.0468 ppm	0.6450 ppm	0.0046 ppm	364.3621 ppm
Concentration RSD	1.2 %	0.6 %	0.3 %	3.9 %	0.4 %	1.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0060 ppm	0.0660 ppm	0.0980 ppm	1.1723 ppm	275.1044 ppm	5.0999 ppm	0.0867 ppm
Concentration per Run 1	-0.0060 ppm	0.0651 ppm	0.0979 ppm	1.1667 ppm	275.1857 ppm	5.1070 ppm	0.0877 ppm
Concentration per Run 2	-0.0059 ppm	0.0659 ppm	0.0978 ppm	1.1679 ppm	275.7880 ppm	5.1186 ppm	0.0858 ppm
Concentration per Run 3	-0.0062 ppm	0.0669 ppm	0.0983 ppm	1.1824 ppm	274.3393 ppm	5.0740 ppm	0.0865 ppm
Concentration RSD	2.1 %	1.4 %	0.3 %	0.7 %	0.3 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	167.5221 ppm	3.2957 ppm	0.0126 ppm	1.3622 ppm	0.1669 ppm	2.3049 ppm	0.0446 ppm
Concentration per Run 1	167.3962 ppm	3.2976 ppm	0.0124 ppm	1.3676 ppm	0.1666 ppm	2.3024 ppm	0.0437 ppm
Concentration per Run 2	166.2843 ppm	3.3135 ppm	0.0124 ppm	1.3597 ppm	0.1648 ppm	2.2958 ppm	0.0472 ppm
Concentration per Run 3	168.8859 ppm	3.2762 ppm	0.0131 ppm	1.3593 ppm	0.1694 ppm	2.3165 ppm	0.0429 ppm
Concentration RSD	0.8 %	0.6 %	3.5 %	0.3 %	1.4 %	0.5 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0082 ppm	3.8705 ppm	0.1814 ppm	0.4667 ppm	1.1888 ppm	0.0046 ppm	0.1466 ppm
Concentration per Run 1	-0.0097 ppm	3.8472 ppm	0.1793 ppm	0.4674 ppm	1.1866 ppm	0.0042 ppm	0.1468 ppm
Concentration per Run 2	-0.0078 ppm	3.8310 ppm	0.1795 ppm	0.4680 ppm	1.1846 ppm	0.0041 ppm	0.1455 ppm
Concentration per Run 3	-0.0072 ppm	3.9333 ppm	0.1855 ppm	0.4646 ppm	1.1953 ppm	0.0054 ppm	0.1474 ppm
Concentration RSD	15.6 %	1.4 %	2.0 %	0.4 %	0.5 %	15.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2774 ppm	97.2555 %	102.5127 %	85.6146 %	112.8626 %	119.5774 %	113.0141 %
Concentration per Run 1	1.2782 ppm	97.7594 %	103.3967 %	84.7831 %	113.4109 %	121.2173 %	112.0588 %
Concentration per Run 2	1.2722 ppm	97.6734 %	102.0901 %	86.8351 %	113.3632 %	119.1027 %	114.0280 %
Concentration per Run 3	1.2819 ppm	96.3337 %	102.0513 %	85.2255 %	111.8138 %	118.4122 %	112.9554 %
Concentration RSD	0.4 %	0.8 %	0.7 %	1.3 %	0.8 %	1.2 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-05D2 WG1935625
Analysis started at: 6/18/2024 7:29:12 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0094 ppm	47.8201 ppm	0.2181 ppm	0.0397 ppm	0.5313 ppm	0.0042 ppm	464.3896 ppm
Concentration per Run 1	0.0095 ppm	47.5572 ppm	0.2209 ppm	0.0398 ppm	0.5275 ppm	0.0041 ppm	463.3354 ppm
Concentration per Run 2	0.0097 ppm	47.6474 ppm	0.2144 ppm	0.0402 ppm	0.5290 ppm	0.0042 ppm	464.0832 ppm
Concentration per Run 3	0.0092 ppm	48.2558 ppm	0.2189 ppm	0.0392 ppm	0.5374 ppm	0.0042 ppm	465.7500 ppm
Concentration RSD	2.8 %	0.8 %	1.5 %	1.2 %	1.0 %	1.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0051 ppm	0.0632 ppm	0.1027 ppm	1.1422 ppm	251.2045 ppm	5.8099 ppm	0.1001 ppm
Concentration per Run 1	-0.0050 ppm	0.0632 ppm	0.1042 ppm	1.1398 ppm	248.6470 ppm	5.7755 ppm	0.1011 ppm
Concentration per Run 2	-0.0050 ppm	0.0635 ppm	0.1022 ppm	1.1507 ppm	251.4797 ppm	5.7994 ppm	0.0998 ppm
Concentration per Run 3	-0.0051 ppm	0.0629 ppm	0.1018 ppm	1.1360 ppm	253.4870 ppm	5.8548 ppm	0.0994 ppm
Concentration RSD	1.2 %	0.4 %	1.3 %	0.7 %	1.0 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	179.9827 ppm	3.8550 ppm	0.0104 ppm	1.6818 ppm	0.1713 ppm	3.8258 ppm	0.0971 ppm
Concentration per Run 1	180.9227 ppm	3.8461 ppm	0.0103 ppm	1.6813 ppm	0.1730 ppm	3.8244 ppm	0.0966 ppm
Concentration per Run 2	179.8691 ppm	3.8357 ppm	0.0101 ppm	1.6809 ppm	0.1706 ppm	3.8287 ppm	0.0978 ppm
Concentration per Run 3	179.1562 ppm	3.8832 ppm	0.0108 ppm	1.6830 ppm	0.1704 ppm	3.8244 ppm	0.0970 ppm
Concentration RSD	0.5 %	0.6 %	3.7 %	0.1 %	0.9 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0128 ppm	6.7858 ppm	0.6246 ppm	0.4657 ppm	1.1180 ppm	0.0034 ppm	0.1491 ppm
Concentration per Run 1	-0.0159 ppm	6.8641 ppm	0.6269 ppm	0.4618 ppm	1.1293 ppm	0.0026 ppm	0.1490 ppm
Concentration per Run 2	-0.0127 ppm	6.7961 ppm	0.6250 ppm	0.4647 ppm	1.1204 ppm	0.0041 ppm	0.1489 ppm
Concentration per Run 3	-0.0099 ppm	6.6971 ppm	0.6218 ppm	0.4706 ppm	1.1043 ppm	0.0034 ppm	0.1495 ppm
Concentration RSD	23.5 %	1.2 %	0.4 %	1.0 %	1.1 %	21.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1425 ppm	97.1831 %	102.4770 %	85.5990 %	116.1004 %	122.8167 %	116.6784 %
Concentration per Run 1	1.1496 ppm	97.6813 %	103.1667 %	85.3858 %	116.4775 %	124.1290 %	116.3180 %
Concentration per Run 2	1.1403 ppm	96.8847 %	103.1318 %	85.5517 %	115.8875 %	123.5629 %	116.8685 %
Concentration per Run 3	1.1377 ppm	96.9832 %	101.1327 %	85.8596 %	115.9361 %	120.7584 %	116.8488 %
Concentration RSD	0.5 %	0.4 %	1.1 %	0.3 %	0.3 %	1.5 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: eL2433099-06D2 WG1935625
Analysis started at: 6/18/2024 7:32:41 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0266 ppm	45.1180 ppm	0.3830 ppm	0.0544 ppm	0.8738 ppm	0.0051 ppm	242.6650 ppm
Concentration per Run 1	0.0255 ppm	45.3277 ppm	0.3781 ppm	0.0535 ppm	0.8762 ppm	0.0051 ppm	242.3351 ppm
Concentration per Run 2	0.0275 ppm	45.5541 ppm	0.3868 ppm	0.0576 ppm	0.8791 ppm	0.0051 ppm	245.3552 ppm
Concentration per Run 3	0.0269 ppm	44.4722 ppm	0.3841 ppm	0.0522 ppm	0.8661 ppm	0.0051 ppm	240.3045 ppm
Concentration RSD	3.8 %	1.3 %	1.2 %	5.1 %	0.8 %	0.5 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0155 ppm	0.0748 ppm	0.3688 ppm	2.2593 ppm	**570.1050 ppm**	3.9596 ppm	0.0613 ppm
Concentration per Run 1	0.0150 ppm	0.0736 ppm	0.3652 ppm	2.2312 ppm	569.9686 ppm	3.9671 ppm	0.0617 ppm
Concentration per Run 2	0.0167 ppm	0.0760 ppm	0.3683 ppm	2.2626 ppm	575.7115 ppm	3.9994 ppm	0.0614 ppm
Concentration per Run 3	0.0148 ppm	0.0747 ppm	0.3731 ppm	2.2841 ppm	564.6350 ppm	3.9122 ppm	0.0607 ppm
Concentration RSD	6.7 %	1.6 %	1.1 %	1.2 %	1.0 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.9147 ppm	5.9324 ppm	0.0434 ppm	1.0485 ppm	0.4617 ppm	4.0772 ppm	0.0518 ppm
Concentration per Run 1	65.4621 ppm	5.9233 ppm	0.0428 ppm	1.0505 ppm	0.4548 ppm	4.0597 ppm	0.0510 ppm
Concentration per Run 2	65.9015 ppm	6.0019 ppm	0.0432 ppm	1.0613 ppm	0.4638 ppm	4.0795 ppm	0.0502 ppm
Concentration per Run 3	66.3805 ppm	5.8720 ppm	0.0441 ppm	1.0335 ppm	0.4666 ppm	4.0924 ppm	0.0542 ppm
Concentration RSD	0.7 %	1.1 %	1.5 %	1.3 %	1.3 %	0.4 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	6.0595 ppm	0.1988 ppm	0.4809 ppm	1.0322 ppm	0.0068 ppm	0.1881 ppm
Concentration per Run 1	-0.0017 ppm	6.0653 ppm	0.1967 ppm	0.4799 ppm	1.0194 ppm	0.0076 ppm	0.1875 ppm
Concentration per Run 2	-0.0073 ppm	6.0643 ppm	0.2007 ppm	0.4856 ppm	1.0429 ppm	0.0046 ppm	0.1866 ppm
Concentration per Run 3	-0.0068 ppm	6.0489 ppm	0.1988 ppm	0.4772 ppm	1.0342 ppm	0.0082 ppm	0.1904 ppm
Concentration RSD	59.3 %	0.2 %	1.0 %	0.9 %	1.1 %	28.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.7395 ppm	100.9134 %	103.4829 %	85.6009 %	117.7177 %	120.7790 %	114.9282 %
Concentration per Run 1	4.6897 ppm	101.9225 %	103.0589 %	85.9381 %	118.6100 %	120.3663 %	115.3200 %
Concentration per Run 2	4.7360 ppm	100.5218 %	102.4444 %	85.6831 %	117.5259 %	119.6948 %	114.8844 %
Concentration per Run 3	4.7928 ppm	100.2958 %	104.9452 %	85.1817 %	117.0171 %	122.2759 %	114.5803 %
Concentration RSD	1.1 %	0.9 %	1.3 %	0.4 %	0.7 %	1.1 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-07D2 WG1935625
Analysis started at: 6/18/2024 7:36:09 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0129 ppm	46.2365 ppm	0.5444 ppm	0.0367 ppm	0.6610 ppm	0.0040 ppm	353.0156 ppm
Concentration per Run 1	0.0142 ppm	46.4562 ppm	0.5421 ppm	0.0360 ppm	0.6663 ppm	0.0040 ppm	353.6429 ppm
Concentration per Run 2	0.0120 ppm	46.2584 ppm	0.5510 ppm	0.0357 ppm	0.6613 ppm	0.0040 ppm	353.9141 ppm
Concentration per Run 3	0.0125 ppm	45.9950 ppm	0.5401 ppm	0.0384 ppm	0.6555 ppm	0.0039 ppm	351.4896 ppm
Concentration RSD	8.8 %	0.5 %	1.1 %	4.0 %	0.8 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0053 ppm	0.0643 ppm	0.1157 ppm	1.2964 ppm	325.9238 ppm	5.5438 ppm	0.0856 ppm
Concentration per Run 1	-0.0052 ppm	0.0648 ppm	0.1180 ppm	1.3204 ppm	326.8244 ppm	5.5799 ppm	0.0880 ppm
Concentration per Run 2	-0.0054 ppm	0.0638 ppm	0.1144 ppm	1.2872 ppm	326.6930 ppm	5.5500 ppm	0.0838 ppm
Concentration per Run 3	-0.0051 ppm	0.0643 ppm	0.1147 ppm	1.2815 ppm	324.2538 ppm	5.5016 ppm	0.0851 ppm
Concentration RSD	3.1 %	0.8 %	1.7 %	1.6 %	0.4 %	0.7 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	163.4526 ppm	4.7813 ppm	0.0134 ppm	1.2450 ppm	0.2134 ppm	3.9430 ppm	0.1589 ppm
Concentration per Run 1	166.4432 ppm	4.7941 ppm	0.0130 ppm	1.2541 ppm	0.2164 ppm	3.9499 ppm	0.1557 ppm
Concentration per Run 2	161.9908 ppm	4.8036 ppm	0.0136 ppm	1.2434 ppm	0.2130 ppm	3.9494 ppm	0.1622 ppm
Concentration per Run 3	161.9238 ppm	4.7462 ppm	0.0136 ppm	1.2377 ppm	0.2107 ppm	3.9298 ppm	0.1588 ppm
Concentration RSD	1.6 %	0.6 %	2.4 %	0.7 %	1.3 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0091 ppm	5.5065 ppm	0.2881 ppm	0.4396 ppm	1.0147 ppm	0.0058 ppm	0.1513 ppm
Concentration per Run 1	-0.0107 ppm	5.6461 ppm	0.2943 ppm	0.4425 ppm	1.0362 ppm	0.0054 ppm	0.1528 ppm
Concentration per Run 2	-0.0078 ppm	5.4249 ppm	0.2851 ppm	0.4403 ppm	1.0069 ppm	0.0059 ppm	0.1506 ppm
Concentration per Run 3	-0.0088 ppm	5.4485 ppm	0.2849 ppm	0.4359 ppm	1.0011 ppm	0.0061 ppm	0.1505 ppm
Concentration RSD	16.5 %	2.2 %	1.9 %	0.8 %	1.9 %	6.1 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7063 ppm	95.6605 %	101.4552 %	84.3555 %	113.5212 %	120.3593 %	114.0665 %
Concentration per Run 1	1.7329 ppm	93.4067 %	101.2230 %	83.3803 %	111.2134 %	120.0261 %	112.7680 %
Concentration per Run 2	1.6923 ppm	96.5688 %	101.3131 %	84.9800 %	114.5460 %	119.9147 %	115.0678 %
Concentration per Run 3	1.6938 ppm	97.0059 %	101.8294 %	84.7063 %	114.8042 %	121.1370 %	114.3638 %
Concentration RSD	1.3 %	2.1 %	0.3 %	1.0 %	1.8 %	0.6 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-09D2 WG1935625
Analysis started at: 6/18/2024 7:39:38 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0082 ppm	57.7094 ppm	0.2939 ppm	0.0348 ppm	0.6660 ppm	0.0040 ppm	357.6582 ppm
Concentration per Run 1	0.0082 ppm	57.5659 ppm	0.2971 ppm	0.0358 ppm	0.6669 ppm	0.0039 ppm	356.6840 ppm
Concentration per Run 2	0.0084 ppm	57.9283 ppm	0.2950 ppm	0.0338 ppm	0.6678 ppm	0.0040 ppm	359.3859 ppm
Concentration per Run 3	0.0080 ppm	57.6340 ppm	0.2896 ppm	0.0348 ppm	0.6633 ppm	0.0040 ppm	356.9048 ppm
Concentration RSD	2.1 %	0.3 %	1.3 %	3.0 %	0.4 %	1.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0031 ppm	0.0553 ppm	0.1102 ppm	0.7175 ppm	196.1327 ppm	5.7220 ppm	0.0940 ppm
Concentration per Run 1	-0.0032 ppm	0.0551 ppm	0.1114 ppm	0.7277 ppm	195.6405 ppm	5.7185 ppm	0.0932 ppm
Concentration per Run 2	-0.0029 ppm	0.0548 ppm	0.1102 ppm	0.7099 ppm	196.8708 ppm	5.7094 ppm	0.0945 ppm
Concentration per Run 3	-0.0032 ppm	0.0560 ppm	0.1089 ppm	0.7150 ppm	195.8867 ppm	5.7381 ppm	0.0942 ppm
Concentration RSD	5.9 %	1.1 %	1.1 %	1.3 %	0.3 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	102.9663 ppm	5.0141 ppm	0.0066 ppm	1.1419 ppm	0.1279 ppm	1.9636 ppm	0.0205 ppm
Concentration per Run 1	103.9858 ppm	5.0127 ppm	0.0070 ppm	1.1311 ppm	0.1293 ppm	1.9644 ppm	0.0200 ppm
Concentration per Run 2	102.3348 ppm	5.0302 ppm	0.0062 ppm	1.1447 ppm	0.1273 ppm	1.9805 ppm	0.0218 ppm
Concentration per Run 3	102.5781 ppm	4.9994 ppm	0.0067 ppm	1.1500 ppm	0.1271 ppm	1.9458 ppm	0.0196 ppm
Concentration RSD	0.9 %	0.3 %	6.7 %	0.9 %	0.9 %	0.9 %	5.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0120 ppm	7.3693 ppm	0.1153 ppm	0.4558 ppm	0.8864 ppm	0.0029 ppm	0.1623 ppm
Concentration per Run 1	-0.0131 ppm	7.4701 ppm	0.1175 ppm	0.4561 ppm	0.8985 ppm	0.0033 ppm	0.1639 ppm
Concentration per Run 2	-0.0116 ppm	7.2985 ppm	0.1132 ppm	0.4565 ppm	0.8880 ppm	0.0010 ppm	0.1611 ppm
Concentration per Run 3	-0.0112 ppm	7.3393 ppm	0.1153 ppm	0.4549 ppm	0.8727 ppm	0.0043 ppm	0.1619 ppm
Concentration RSD	8.1 %	1.2 %	1.9 %	0.2 %	1.5 %	57.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6006 ppm	98.9734 %	103.3795 %	87.7072 %	125.2610 %	132.2106 %	125.3854 %
Concentration per Run 1	1.6137 ppm	98.9308 %	103.9867 %	87.6894 %	125.9371 %	133.1462 %	124.9361 %
Concentration per Run 2	1.5958 ppm	98.6662 %	102.5804 %	86.6445 %	124.3465 %	131.2578 %	124.1847 %
Concentration per Run 3	1.5924 ppm	99.3232 %	103.5715 %	88.7877 %	125.4995 %	132.2280 %	127.0353 %
Concentration RSD	0.7 %	0.3 %	0.7 %	1.2 %	0.7 %	0.7 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-10D2 WG1935625
Analysis started at: 6/18/2024 7:43:07 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0058 ppm	45.4558 ppm	0.0935 ppm	0.0233 ppm	0.3887 ppm	0.0029 ppm	162.8085 ppm
Concentration per Run 1	0.0057 ppm	45.3063 ppm	0.0915 ppm	0.0240 ppm	0.3851 ppm	0.0029 ppm	162.1276 ppm
Concentration per Run 2	0.0053 ppm	45.2929 ppm	0.0962 ppm	0.0219 ppm	0.3882 ppm	0.0029 ppm	163.0281 ppm
Concentration per Run 3	0.0063 ppm	45.7683 ppm	0.0927 ppm	0.0239 ppm	0.3927 ppm	0.0029 ppm	163.2697 ppm
Concentration RSD	7.8 %	0.6 %	2.6 %	5.1 %	1.0 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0027 ppm	0.0494 ppm	0.0827 ppm	0.3113 ppm	132.7869 ppm	4.9114 ppm	0.0813 ppm
Concentration per Run 1	-0.0028 ppm	0.0493 ppm	0.0819 ppm	0.3083 ppm	132.4631 ppm	4.8922 ppm	0.0802 ppm
Concentration per Run 2	-0.0027 ppm	0.0492 ppm	0.0823 ppm	0.3093 ppm	132.6470 ppm	4.9141 ppm	0.0814 ppm
Concentration per Run 3	-0.0026 ppm	0.0496 ppm	0.0840 ppm	0.3164 ppm	133.2505 ppm	4.9278 ppm	0.0823 ppm
Concentration RSD	3.2 %	0.4 %	1.3 %	1.4 %	0.3 %	0.4 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.6752 ppm	4.0264 ppm	0.0069 ppm	0.7691 ppm	0.1072 ppm	1.0302 ppm	0.0024 ppm
Concentration per Run 1	51.1415 ppm	4.0124 ppm	0.0069 ppm	0.7665 ppm	0.1057 ppm	1.0396 ppm	-0.0016 ppm
Concentration per Run 2	51.5143 ppm	4.0180 ppm	0.0070 ppm	0.7579 ppm	0.1068 ppm	1.0247 ppm	0.0067 ppm
Concentration per Run 3	52.3697 ppm	4.0487 ppm	0.0069 ppm	0.7828 ppm	0.1092 ppm	1.0264 ppm	0.0020 ppm
Concentration RSD	1.2 %	0.5 %	0.8 %	1.6 %	1.7 %	0.8 %	176.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0059 ppm	5.4727 ppm	0.1363 ppm	0.2453 ppm	0.7875 ppm	0.0015 ppm	0.1313 ppm
Concentration per Run 1	-0.0102 ppm	5.4612 ppm	0.1337 ppm	0.2436 ppm	0.7876 ppm	0.0012 ppm	0.1300 ppm
Concentration per Run 2	-0.0038 ppm	5.4121 ppm	0.1357 ppm	0.2446 ppm	0.7766 ppm	0.0022 ppm	0.1312 ppm
Concentration per Run 3	-0.0038 ppm	5.5447 ppm	0.1393 ppm	0.2476 ppm	0.7983 ppm	0.0010 ppm	0.1326 ppm
Concentration RSD	62.0 %	1.2 %	2.1 %	0.9 %	1.4 %	43.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6083 ppm	100.3489 %	104.8075 %	92.6119 %	125.5944 %	130.9130 %	126.1219 %
Concentration per Run 1	0.6014 ppm	101.7728 %	104.5469 %	91.4537 %	126.9807 %	130.6081 %	124.9258 %
Concentration per Run 2	0.6063 ppm	99.9194 %	104.6591 %	93.1216 %	124.9113 %	130.7728 %	126.2978 %
Concentration per Run 3	0.6173 ppm	99.3545 %	105.2165 %	93.2603 %	124.8911 %	131.3580 %	127.1422 %
Concentration RSD	1.3 %	1.3 %	0.3 %	1.1 %	1.0 %	0.3 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:46:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4991 ppm	0.4812 ppm	0.4563 ppm	0.4906 ppm	0.4901 ppm	0.5027 ppm	0.4757 ppm
Concentration per Run 1	0.4975 ppm	0.4914 ppm	0.4556 ppm	0.4867 ppm	0.4924 ppm	0.5050 ppm	0.4752 ppm
Concentration per Run 2	0.4996 ppm	0.4727 ppm	0.4599 ppm	0.4867 ppm	0.4859 ppm	0.4998 ppm	0.4742 ppm
Concentration per Run 3	0.5003 ppm	0.4794 ppm	0.4536 ppm	0.4985 ppm	0.4920 ppm	0.5032 ppm	0.4778 ppm
Recovery Percentage 1	99.826 %	96.230 %	91.268 %	98.126 %	98.016 %	100.534 %	95.144 %
Concentration RSD	0.3 %	2.0 %	0.7 %	1.4 %	0.7 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4934 ppm	0.5022 ppm	0.4834 ppm	0.4909 ppm	0.5058 ppm	5.0498 ppm	0.4917 ppm
Concentration per Run 1	0.4925 ppm	0.4994 ppm	0.4808 ppm	0.4886 ppm	0.5092 ppm	5.0799 ppm	0.4962 ppm
Concentration per Run 2	0.4949 ppm	0.5060 ppm	0.4826 ppm	0.4902 ppm	0.4988 ppm	4.9863 ppm	0.4869 ppm
Concentration per Run 3	0.4927 ppm	0.5012 ppm	0.4867 ppm	0.4939 ppm	0.5095 ppm	5.0832 ppm	0.4920 ppm
Recovery Percentage 1	98.671 %	100.442 %	96.671 %	98.180 %	101.166 %	100.996 %	98.342 %
Concentration RSD	0.3 %	0.7 %	0.6 %	0.6 %	1.2 %	1.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4803 ppm	0.4772 ppm	0.4892 ppm	9.6762 ppm	0.5034 ppm	0.4860 ppm	0.4914 ppm
Concentration per Run 1	0.4813 ppm	0.4777 ppm	0.4818 ppm	9.6817 ppm	0.5010 ppm	0.4815 ppm	0.4840 ppm
Concentration per Run 2	0.4790 ppm	0.4737 ppm	0.4903 ppm	9.6090 ppm	0.5019 ppm	0.4881 ppm	0.4997 ppm
Concentration per Run 3	0.4805 ppm	0.4801 ppm	0.4953 ppm	9.7379 ppm	0.5072 ppm	0.4885 ppm	0.4903 ppm
Recovery Percentage 1	96.053 %	95.435 %	97.833 %	96.762 %	100.675 %	97.207 %	98.273 %
Concentration RSD	0.2 %	0.7 %	1.4 %	0.7 %	0.7 %	0.8 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4745 ppm	5.5862 ppm	0.5200 ppm	0.4926 ppm	0.4951 ppm	0.4857 ppm	0.4822 ppm
Concentration per Run 1	0.4688 ppm	5.5580 ppm	0.5188 ppm	0.4944 ppm	0.4921 ppm	0.4836 ppm	0.4787 ppm
Concentration per Run 2	0.4775 ppm	5.5955 ppm	0.5150 ppm	0.4877 ppm	0.4968 ppm	0.4889 ppm	0.4832 ppm
Concentration per Run 3	0.4773 ppm	5.6051 ppm	0.5261 ppm	0.4958 ppm	0.4965 ppm	0.4845 ppm	0.4847 ppm
Recovery Percentage 1	94.908 %	106.404 %	103.991 %	98.523 %	99.025 %	97.133 %	96.446 %
Concentration RSD	1.1 %	0.4 %	1.1 %	0.9 %	0.5 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4988 ppm	104.5678 %	103.2257 %	104.3472 %	104.8607 %	103.1655 %	105.4281 %
Concentration per Run 1	0.4953 ppm	105.2876 %	102.5748 %	105.4952 %	105.5994 %	102.6883 %	106.5413 %
Concentration per Run 2	0.4976 ppm	105.0791 %	104.5820 %	103.7438 %	105.3013 %	104.4599 %	104.6446 %
Concentration per Run 3	0.5036 ppm	103.3366 %	102.5203 %	103.8027 %	103.6813 %	102.3483 %	105.0983 %
Recovery Percentage 1	99.769 %						
Concentration RSD	0.9 %	1.0 %	1.1 %	1.0 %	1.0 %	1.1 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:50:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	-0.0004 ppm	0.0018 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0009 ppm	-0.0015 ppm	0.0017 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0030 ppm
Concentration per Run 2	0.0010 ppm	0.0036 ppm	0.0017 ppm	-0.0001 ppm	0.0006 ppm	0.0003 ppm	-0.0018 ppm
Concentration per Run 3	0.0007 ppm	-0.0033 ppm	0.0020 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0015 ppm
Recovery Percentage 1	12.723 %	-0.417 %	36.008 %	-0.171 %	5.192 %	9.015 %	0.885 %
Concentration RSD	16.2 %	869.6 %	12.1 %	341.4 %	9.8 %	5.4 %	278.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0050 ppm	-0.0136 ppm	-0.0005 ppm
Concentration per Run 1	0.0004 ppm	-0.0006 ppm	0.0003 ppm	0.0013 ppm	0.0046 ppm	0.0148 ppm	-0.0007 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0004 ppm	0.0005 ppm	0.0061 ppm	-0.0319 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0009 ppm	0.0042 ppm	-0.0237 ppm	-0.0001 ppm
Recovery Percentage 1	7.455 %	-1.200 %	2.237 %	9.048 %	10.019 %	-0.543 %	-9.172 %
Concentration RSD	19.6 %	215.4 %	99.3 %	44.8 %	19.9 %	183.8 %	64.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0004 ppm	0.0020 ppm	0.0030 ppm	0.0006 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 1	-0.0008 ppm	0.0004 ppm	0.0018 ppm	0.0055 ppm	0.0014 ppm	0.0011 ppm	0.0021 ppm
Concentration per Run 2	-0.0025 ppm	0.0002 ppm	0.0020 ppm	0.0023 ppm	0.0005 ppm	0.0005 ppm	0.0037 ppm
Concentration per Run 3	-0.0011 ppm	0.0006 ppm	0.0022 ppm	0.0011 ppm	-0.0002 ppm	-0.0003 ppm	0.0008 ppm
Recovery Percentage 1	-1.476 %	4.004 %	3.994 %	0.148 %	2.263 %	4.602 %	4.409 %
Concentration RSD	62.3 %	41.7 %	11.4 %	77.4 %	144.5 %	147.9 %	65.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0078 ppm	0.0019 ppm	0.0003 ppm	0.0010 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0013 ppm	0.0086 ppm	0.0019 ppm	0.0004 ppm	0.0009 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0024 ppm	0.0068 ppm	0.0017 ppm	0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0043 ppm	0.0079 ppm	0.0020 ppm	0.0003 ppm	0.0011 ppm	0.0009 ppm	0.0002 ppm
Recovery Percentage 1	2.028 %	1.551 %	3.713 %	3.096 %	9.815 %	4.244 %	2.383 %
Concentration RSD	1,766.3 %	11.5 %	7.7 %	27.1 %	12.4 %	25.7 %	57.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	104.3465 %	101.5426 %	103.9637 %	106.1562 %	102.3849 %	105.2798 %
Concentration per Run 1	0.0006 ppm	103.7648 %	101.3485 %	105.2912 %	105.6356 %	102.4007 %	106.2994 %
Concentration per Run 2	0.0004 ppm	104.6587 %	100.8428 %	103.6905 %	106.4451 %	101.6479 %	104.8609 %
Concentration per Run 3	0.0005 ppm	104.6161 %	102.4364 %	102.9094 %	106.3881 %	103.1062 %	104.6791 %
Recovery Percentage 1	10.121 %						
Concentration RSD	23.8 %	0.5 %	0.8 %	1.2 %	0.4 %	0.7 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: xWG1935625-1 WG1935625
Analysis started at: 6/18/2024 7:58:36 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0048 ppm	-0.0012 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0288 ppm
Concentration per Run 1	0.0003 ppm	0.0077 ppm	-0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0298 ppm
Concentration per Run 2	0.0004 ppm	0.0090 ppm	-0.0006 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0265 ppm
Concentration per Run 3	0.0007 ppm	-0.0022 ppm	-0.0028 ppm	0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0302 ppm
Recovery Percentage 1	6.685 %	4.849 %	-24.415 %	1.095 %	3.651 %	0.244 %	28.816 %
Concentration RSD	39.5 %	126.2 %	112.0 %	173.5 %	25.6 %	499.5 %	7.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0009 ppm	0.0004 ppm	0.0012 ppm	**0.1543 ppm**	-0.0247 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0013 ppm	0.0005 ppm	0.0011 ppm	0.1538 ppm	-0.0362 ppm	0.0021 ppm
Concentration per Run 2	-0.0001 ppm	-0.0008 ppm	0.0003 ppm	0.0015 ppm	0.1553 ppm	-0.0155 ppm	-0.0010 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	0.0005 ppm	0.0010 ppm	0.1537 ppm	-0.0223 ppm	0.0000 ppm
Recovery Percentage 1	-1.295 %	-4.728 %	4.014 %	12.220 %	308.540 %	-0.986 %	7.580 %
Concentration RSD	20.5 %	27.9 %	25.5 %	23.0 %	**0.6 %**	42.8 %	411.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0049 ppm	0.0020 ppm	-0.0004 ppm	0.0120 ppm	0.0000 ppm	0.0003 ppm	-0.0009 ppm
Concentration per Run 1	0.0040 ppm	0.0020 ppm	-0.0008 ppm	0.0177 ppm	-0.0003 ppm	0.0006 ppm	-0.0027 ppm
Concentration per Run 2	0.0064 ppm	0.0021 ppm	0.0002 ppm	0.0085 ppm	0.0007 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0044 ppm	0.0020 ppm	-0.0005 ppm	0.0096 ppm	-0.0004 ppm	0.0001 ppm	-0.0006 ppm
Recovery Percentage 1	4.947 %	20.232 %	-0.719 %	0.598 %	-0.011 %	3.113 %	-1.882 %
Concentration RSD	25.9 %	3.5 %	145.3 %	42.2 %	23,950.8 %	93.5 %	170.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	0.0134 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	0.0035 ppm	0.0103 ppm	0.0003 ppm	0.0001 ppm	0.0012 ppm	-0.0028 ppm	-0.0004 ppm
Concentration per Run 2	0.0004 ppm	0.0138 ppm	0.0011 ppm	0.0000 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0160 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	12.740 %	2.678 %	0.903 %	-0.460 %	9.163 %	-6.770 %	-1.124 %
Concentration RSD	152.4 %	21.5 %	131.2 %	301.5 %	42.1 %	108.8 %	197.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0030 ppm**	103.4954 %	100.5175 %	103.9607 %	104.3755 %	101.0211 %	105.4302 %
Concentration per Run 1	0.0028 ppm	103.1767 %	100.8538 %	103.8627 %	103.9915 %	101.2605 %	105.0971 %
Concentration per Run 2	0.0033 ppm	104.9840 %	100.6146 %	103.7259 %	106.2452 %	101.3224 %	105.7117 %
Concentration per Run 3	0.0030 ppm	102.3254 %	100.0843 %	104.2933 %	102.8897 %	100.4803 %	105.4819 %
Recovery Percentage 1	60.605 %						
Concentration RSD	**7.9 %**	1.3 %	0.4 %	0.3 %	1.6 %	0.5 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: eL2433099-02D4 WG1935625
Analysis started at: 6/18/2024 8:02:12 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0086 ppm	15.3676 ppm	0.1018 ppm	0.0235 ppm	0.3176 ppm	0.0020 ppm	365.5247 ppm
Concentration per Run 1	0.0087 ppm	15.3617 ppm	0.1027 ppm	0.0232 ppm	0.3174 ppm	0.0020 ppm	365.3471 ppm
Concentration per Run 2	0.0082 ppm	15.3507 ppm	0.1032 ppm	0.0243 ppm	0.3178 ppm	0.0020 ppm	365.3122 ppm
Concentration per Run 3	0.0090 ppm	15.3904 ppm	0.0994 ppm	0.0231 ppm	0.3176 ppm	0.0020 ppm	365.9147 ppm
Concentration RSD	4.9 %	0.1 %	2.0 %	2.8 %	0.1 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0419 ppm	0.0243 ppm	0.0769 ppm	0.7234 ppm	159.3023 ppm	2.3470 ppm	0.0246 ppm
Concentration per Run 1	0.0416 ppm	0.0237 ppm	0.0772 ppm	0.7251 ppm	159.0437 ppm	2.3543 ppm	0.0246 ppm
Concentration per Run 2	0.0416 ppm	0.0240 ppm	0.0762 ppm	0.7200 ppm	158.9203 ppm	2.3528 ppm	0.0252 ppm
Concentration per Run 3	0.0424 ppm	0.0250 ppm	0.0773 ppm	0.7252 ppm	159.9427 ppm	2.3338 ppm	0.0240 ppm
Concentration RSD	1.2 %	2.8 %	0.8 %	0.4 %	0.4 %	0.5 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	89.1618 ppm	2.0889 ppm	0.0099 ppm	0.5093 ppm	0.1195 ppm	1.5230 ppm	0.0188 ppm
Concentration per Run 1	89.3564 ppm	2.0783 ppm	0.0095 ppm	0.5139 ppm	0.1205 ppm	1.5207 ppm	0.0168 ppm
Concentration per Run 2	88.7782 ppm	2.1014 ppm	0.0097 ppm	0.5052 ppm	0.1190 ppm	1.5286 ppm	0.0174 ppm
Concentration per Run 3	89.3510 ppm	2.0869 ppm	0.0105 ppm	0.5087 ppm	0.1190 ppm	1.5198 ppm	0.0222 ppm
Concentration RSD	0.4 %	0.6 %	5.2 %	0.9 %	0.7 %	0.3 %	15.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0057 ppm	2.9650 ppm	0.0887 ppm	0.3036 ppm	0.3842 ppm	0.0022 ppm	0.0636 ppm
Concentration per Run 1	-0.0042 ppm	2.9764 ppm	0.0876 ppm	0.3032 ppm	0.3853 ppm	0.0025 ppm	0.0635 ppm
Concentration per Run 2	-0.0070 ppm	2.9611 ppm	0.0900 ppm	0.3036 ppm	0.3818 ppm	0.0010 ppm	0.0632 ppm
Concentration per Run 3	-0.0060 ppm	2.9574 ppm	0.0884 ppm	0.3040 ppm	0.3853 ppm	0.0031 ppm	0.0640 ppm
Concentration RSD	25.3 %	0.3 %	1.4 %	0.1 %	0.5 %	47.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	17.5707 ppm	97.1704 %	99.5013 %	86.6332 %	103.7546 %	107.6092 %	103.3929 %
Concentration per Run 1	17.6055 ppm	97.5961 %	99.4394 %	87.2712 %	104.2422 %	108.0322 %	104.0386 %
Concentration per Run 2	17.5352 ppm	97.3172 %	99.1347 %	86.0635 %	103.9263 %	107.0612 %	102.8658 %
Concentration per Run 3	17.5715 ppm	96.5980 %	99.9297 %	86.5647 %	103.0954 %	107.7342 %	103.2744 %
Concentration RSD	0.2 %	0.5 %	0.4 %	0.7 %	0.6 %	0.5 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-06D5 WG1935625
Analysis started at: 6/18/2024 8:05:41 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0123 ppm	17.9364 ppm	0.1412 ppm	0.0232 ppm	0.3525 ppm	0.0021 ppm	101.1529 ppm
Concentration per Run 1	0.0126 ppm	18.0532 ppm	0.1401 ppm	0.0238 ppm	0.3558 ppm	0.0022 ppm	101.9519 ppm
Concentration per Run 2	0.0123 ppm	17.8235 ppm	0.1436 ppm	0.0239 ppm	0.3487 ppm	0.0021 ppm	100.2686 ppm
Concentration per Run 3	0.0120 ppm	17.9325 ppm	0.1400 ppm	0.0218 ppm	0.3529 ppm	0.0021 ppm	101.2381 ppm
Concentration RSD	2.4 %	0.6 %	1.5 %	5.2 %	1.0 %	2.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0072 ppm	0.0325 ppm	0.1545 ppm	0.9275 ppm	251.8961 ppm	1.5329 ppm	0.0262 ppm
Concentration per Run 1	0.0075 ppm	0.0330 ppm	0.1554 ppm	0.9261 ppm	253.6793 ppm	1.5610 ppm	0.0270 ppm
Concentration per Run 2	0.0071 ppm	0.0323 ppm	0.1534 ppm	0.9249 ppm	249.7835 ppm	1.5068 ppm	0.0251 ppm
Concentration per Run 3	0.0071 ppm	0.0320 ppm	0.1548 ppm	0.9316 ppm	252.2255 ppm	1.5308 ppm	0.0264 ppm
Concentration RSD	2.7 %	1.6 %	0.7 %	0.4 %	0.8 %	1.8 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2535 ppm	2.4782 ppm	0.0177 ppm	0.4075 ppm	0.2020 ppm	1.6049 ppm	0.0202 ppm
Concentration per Run 1	28.1767 ppm	2.5025 ppm	0.0171 ppm	0.4070 ppm	0.2028 ppm	1.6186 ppm	0.0218 ppm
Concentration per Run 2	28.1143 ppm	2.4549 ppm	0.0176 ppm	0.4024 ppm	0.1997 ppm	1.6159 ppm	0.0180 ppm
Concentration per Run 3	28.4694 ppm	2.4772 ppm	0.0183 ppm	0.4131 ppm	0.2035 ppm	1.5802 ppm	0.0207 ppm
Concentration RSD	0.7 %	1.0 %	3.4 %	1.3 %	1.0 %	1.3 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	2.2563 ppm	0.0862 ppm	0.1940 ppm	0.4252 ppm	0.0021 ppm	0.0769 ppm
Concentration per Run 1	-0.0035 ppm	2.2729 ppm	0.0859 ppm	0.1961 ppm	0.4218 ppm	0.0026 ppm	0.0770 ppm
Concentration per Run 2	-0.0002 ppm	2.2279 ppm	0.0859 ppm	0.1916 ppm	0.4236 ppm	0.0024 ppm	0.0766 ppm
Concentration per Run 3	-0.0015 ppm	2.2680 ppm	0.0868 ppm	0.1944 ppm	0.4300 ppm	0.0011 ppm	0.0772 ppm
Concentration RSD	95.4 %	1.1 %	0.6 %	1.2 %	1.0 %	39.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.1048 ppm	99.3651 %	101.4886 %	93.1420 %	105.7689 %	108.6345 %	107.1058 %
Concentration per Run 1	2.1135 ppm	99.2102 %	101.3843 %	91.7060 %	105.8162 %	108.7041 %	105.7897 %
Concentration per Run 2	2.0946 ppm	99.5545 %	102.2038 %	92.8304 %	106.0605 %	109.3183 %	106.8089 %
Concentration per Run 3	2.1063 ppm	99.3306 %	100.8778 %	94.8895 %	105.4300 %	107.8810 %	108.7187 %
Concentration RSD	0.5 %	0.2 %	0.7 %	1.7 %	0.3 %	0.7 %	1.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433099-11D2 WG1935625
Analysis started at: 6/18/2024 8:09:10 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0170 ppm	31.9407 ppm	0.3104 ppm	0.0443 ppm	0.7245 ppm	0.0041 ppm	363.2892 ppm
Concentration per Run 1	0.0165 ppm	31.8368 ppm	0.3129 ppm	0.0419 ppm	0.7228 ppm	0.0041 ppm	361.5396 ppm
Concentration per Run 2	0.0165 ppm	32.0031 ppm	0.3084 ppm	0.0454 ppm	0.7248 ppm	0.0041 ppm	365.3302 ppm
Concentration per Run 3	0.0179 ppm	31.9822 ppm	0.3099 ppm	0.0456 ppm	0.7258 ppm	0.0041 ppm	362.9979 ppm
Concentration RSD	4.8 %	0.3 %	0.7 %	4.6 %	0.2 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0028 ppm	0.0558 ppm	0.1618 ppm	1.8301 ppm	410.1880 ppm	3.4002 ppm	0.0487 ppm
Concentration per Run 1	-0.0028 ppm	0.0554 ppm	0.1623 ppm	1.8372 ppm	407.3753 ppm	3.4208 ppm	0.0495 ppm
Concentration per Run 2	-0.0026 ppm	0.0566 ppm	0.1616 ppm	1.8319 ppm	411.5790 ppm	3.4004 ppm	0.0478 ppm
Concentration per Run 3	-0.0029 ppm	0.0554 ppm	0.1615 ppm	1.8211 ppm	411.6096 ppm	3.3794 ppm	0.0488 ppm
Concentration RSD	5.2 %	1.3 %	0.3 %	0.4 %	0.6 %	0.6 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.7300 ppm	4.0424 ppm	0.0188 ppm	1.0776 ppm	0.2203 ppm	3.7454 ppm	0.1279 ppm
Concentration per Run 1	86.0931 ppm	4.0216 ppm	0.0183 ppm	1.0762 ppm	0.2213 ppm	3.7391 ppm	0.1214 ppm
Concentration per Run 2	85.7783 ppm	4.0558 ppm	0.0187 ppm	1.0748 ppm	0.2217 ppm	3.7438 ppm	0.1293 ppm
Concentration per Run 3	85.3186 ppm	4.0497 ppm	0.0194 ppm	1.0819 ppm	0.2180 ppm	3.7531 ppm	0.1329 ppm
Concentration RSD	0.5 %	0.5 %	2.9 %	0.3 %	0.9 %	0.2 %	4.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0071 ppm	6.3862 ppm	0.2301 ppm	0.4425 ppm	1.0450 ppm	0.0051 ppm	0.1154 ppm
Concentration per Run 1	-0.0045 ppm	6.4608 ppm	0.2339 ppm	0.4411 ppm	1.0506 ppm	0.0039 ppm	0.1155 ppm
Concentration per Run 2	-0.0064 ppm	6.3345 ppm	0.2312 ppm	0.4421 ppm	1.0480 ppm	0.0063 ppm	0.1159 ppm
Concentration per Run 3	-0.0104 ppm	6.3632 ppm	0.2251 ppm	0.4445 ppm	1.0365 ppm	0.0052 ppm	0.1148 ppm
Concentration RSD	42.4 %	1.0 %	2.0 %	0.4 %	0.7 %	23.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2655 ppm	96.1798 %	99.6862 %	84.5168 %	108.0992 %	113.3268 %	108.8341 %
Concentration per Run 1	2.2851 ppm	96.3454 %	101.0030 %	84.5847 %	108.3487 %	115.0368 %	108.9368 %
Concentration per Run 2	2.2732 ppm	95.8542 %	97.9476 %	84.8458 %	107.6282 %	111.7316 %	109.1396 %
Concentration per Run 3	2.2383 ppm	96.3398 %	100.1081 %	84.1199 %	108.3207 %	113.2120 %	108.4260 %
Concentration RSD	1.1 %	0.3 %	1.6 %	0.4 %	0.4 %	1.5 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433160-04D2 WG1935625
Analysis started at: 6/18/2024 8:12:40 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	42.2733 ppm	**0.0077 ppm**	0.0036 ppm	0.5045 ppm	0.0014 ppm	24.5070 ppm
Concentration per Run 1	0.0007 ppm	42.3353 ppm	0.0071 ppm	0.0027 ppm	0.5072 ppm	0.0013 ppm	24.6095 ppm
Concentration per Run 2	0.0017 ppm	42.2767 ppm	0.0055 ppm	0.0041 ppm	0.5056 ppm	0.0014 ppm	24.5198 ppm
Concentration per Run 3	0.0015 ppm	42.2080 ppm	0.0107 ppm	0.0040 ppm	0.5007 ppm	0.0013 ppm	24.3916 ppm
Concentration RSD	40.6 %	0.2 %	**34.6 %**	22.4 %	0.7 %	2.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0182 ppm	0.3018 ppm	0.1077 ppm	47.4378 ppm	3.7575 ppm	0.0802 ppm
Concentration per Run 1	-0.0002 ppm	0.0185 ppm	0.3009 ppm	0.1086 ppm	47.4531 ppm	3.8035 ppm	0.0829 ppm
Concentration per Run 2	0.0000 ppm	0.0180 ppm	0.3052 ppm	0.1076 ppm	47.9712 ppm	3.7695 ppm	0.0795 ppm
Concentration per Run 3	-0.0003 ppm	0.0181 ppm	0.2993 ppm	0.1067 ppm	46.8891 ppm	3.6994 ppm	0.0782 ppm
Concentration RSD	71.2 %	1.6 %	1.0 %	0.9 %	1.1 %	1.4 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.1018 ppm	0.4689 ppm	0.0019 ppm	0.7825 ppm	0.0772 ppm	0.7482 ppm	-0.0014 ppm
Concentration per Run 1	14.0545 ppm	0.4722 ppm	0.0018 ppm	0.7928 ppm	0.0767 ppm	0.7435 ppm	-0.0007 ppm
Concentration per Run 2	14.1996 ppm	0.4686 ppm	0.0015 ppm	0.7791 ppm	0.0794 ppm	0.7499 ppm	-0.0027 ppm
Concentration per Run 3	14.0513 ppm	0.4660 ppm	0.0024 ppm	0.7757 ppm	0.0753 ppm	0.7511 ppm	-0.0009 ppm
Concentration RSD	0.6 %	0.7 %	23.8 %	1.2 %	2.7 %	0.5 %	77.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	2.7977 ppm	0.0082 ppm	0.1117 ppm	2.0188 ppm	0.0003 ppm	0.0790 ppm
Concentration per Run 1	-0.0022 ppm	2.8029 ppm	0.0081 ppm	0.1124 ppm	2.0182 ppm	0.0009 ppm	0.0787 ppm
Concentration per Run 2	0.0007 ppm	2.8064 ppm	0.0082 ppm	0.1124 ppm	2.0357 ppm	0.0012 ppm	0.0799 ppm
Concentration per Run 3	0.0009 ppm	2.7837 ppm	0.0083 ppm	0.1103 ppm	2.0024 ppm	-0.0010 ppm	0.0784 ppm
Concentration RSD	981.1 %	0.4 %	1.0 %	1.1 %	0.8 %	353.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3840 ppm	103.1090 %	104.5041 %	102.7358 %	116.2527 %	118.5320 %	119.9949 %
Concentration per Run 1	0.3846 ppm	104.6698 %	104.5666 %	104.7583 %	118.6176 %	118.9560 %	122.2673 %
Concentration per Run 2	0.3876 ppm	101.1215 %	104.3401 %	101.7851 %	113.6874 %	118.1540 %	118.8554 %
Concentration per Run 3	0.3797 ppm	103.5357 %	104.6055 %	101.6640 %	116.4530 %	118.4860 %	118.8621 %
Concentration RSD	1.0 %	1.8 %	0.1 %	1.7 %	2.1 %	0.3 %	1.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433160-05D2 WG1935625
Analysis started at: 6/18/2024 8:16:10 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	76.0682 ppm	0.0626 ppm	0.0146 ppm	1.2007 ppm	0.0024 ppm	404.0950 ppm
Concentration per Run 1	0.0049 ppm	75.4416 ppm	0.0635 ppm	0.0120 ppm	1.1914 ppm	0.0024 ppm	401.7522 ppm
Concentration per Run 2	0.0046 ppm	75.7886 ppm	0.0613 ppm	0.0154 ppm	1.1998 ppm	0.0024 ppm	401.4731 ppm
Concentration per Run 3	0.0051 ppm	76.9743 ppm	0.0630 ppm	0.0162 ppm	1.2108 ppm	0.0024 ppm	409.0596 ppm
Concentration RSD	5.1 %	1.1 %	1.9 %	15.4 %	0.8 %	0.5 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0625 ppm	0.2445 ppm	0.3787 ppm	169.9783 ppm	22.0531 ppm	0.0737 ppm
Concentration per Run 1	-0.0006 ppm	0.0624 ppm	0.2445 ppm	0.3769 ppm	168.1981 ppm	21.8689 ppm	0.0731 ppm
Concentration per Run 2	-0.0009 ppm	0.0627 ppm	0.2431 ppm	0.3790 ppm	169.9816 ppm	22.0775 ppm	0.0739 ppm
Concentration per Run 3	-0.0008 ppm	0.0625 ppm	0.2459 ppm	0.3802 ppm	171.7551 ppm	22.2130 ppm	0.0742 ppm
Concentration RSD	21.1 %	0.2 %	0.6 %	0.4 %	1.0 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.4075 ppm	2.3899 ppm	0.0064 ppm	1.1607 ppm	0.1801 ppm	1.3867 ppm	0.0061 ppm
Concentration per Run 1	60.2390 ppm	2.3772 ppm	0.0058 ppm	1.1481 ppm	0.1778 ppm	1.3873 ppm	0.0075 ppm
Concentration per Run 2	60.1940 ppm	2.3743 ppm	0.0067 ppm	1.1541 ppm	0.1810 ppm	1.3808 ppm	0.0051 ppm
Concentration per Run 3	60.7895 ppm	2.4182 ppm	0.0066 ppm	1.1798 ppm	0.1815 ppm	1.3921 ppm	0.0058 ppm
Concentration RSD	0.5 %	1.0 %	7.8 %	1.5 %	1.1 %	0.4 %	20.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0142 ppm	4.3323 ppm	0.0553 ppm	0.3835 ppm	5.7460 ppm	0.0095 ppm	0.3323 ppm
Concentration per Run 1	-0.0141 ppm	4.2717 ppm	0.0570 ppm	0.3808 ppm	5.7282 ppm	0.0107 ppm	0.3310 ppm
Concentration per Run 2	-0.0171 ppm	4.3525 ppm	0.0552 ppm	0.3833 ppm	5.7263 ppm	0.0103 ppm	0.3319 ppm
Concentration per Run 3	-0.0114 ppm	4.3726 ppm	0.0536 ppm	0.3864 ppm	5.7833 ppm	0.0075 ppm	0.3340 ppm
Concentration RSD	19.9 %	1.2 %	3.1 %	0.7 %	0.6 %	18.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2776 ppm	98.9230 %	102.6200 %	89.8159 %	113.4799 %	119.6200 %	114.3844 %
Concentration per Run 1	1.2744 ppm	99.1633 %	102.6764 %	89.6010 %	113.6641 %	119.6121 %	114.2811 %
Concentration per Run 2	1.2728 ppm	100.2226 %	103.9741 %	89.9643 %	115.1605 %	121.1322 %	114.1596 %
Concentration per Run 3	1.2856 ppm	97.3830 %	101.2097 %	89.8823 %	111.6150 %	118.1156 %	114.7124 %
Concentration RSD	0.5 %	1.5 %	1.3 %	0.2 %	1.6 %	1.3 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433160-07D2 WG1935625
Analysis started at: 6/18/2024 8:19:41 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	125.4769 ppm	0.0609 ppm	0.0118 ppm	0.9237 ppm	0.0039 ppm	68.0903 ppm
Concentration per Run 1	0.0057 ppm	125.0564 ppm	0.0613 ppm	0.0101 ppm	0.9273 ppm	0.0038 ppm	67.7128 ppm
Concentration per Run 2	0.0056 ppm	125.0155 ppm	0.0618 ppm	0.0118 ppm	0.9178 ppm	0.0039 ppm	68.2588 ppm
Concentration per Run 3	0.0052 ppm	126.3589 ppm	0.0595 ppm	0.0136 ppm	0.9262 ppm	0.0038 ppm	68.2992 ppm
Concentration RSD	5.0 %	0.6 %	2.0 %	14.9 %	0.6 %	1.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0041 ppm	0.0923 ppm	0.3017 ppm	0.6402 ppm	233.7319 ppm	20.1996 ppm	0.1115 ppm
Concentration per Run 1	-0.0041 ppm	0.0927 ppm	0.3010 ppm	0.6386 ppm	232.9904 ppm	20.2675 ppm	0.1132 ppm
Concentration per Run 2	-0.0042 ppm	0.0929 ppm	0.3020 ppm	0.6387 ppm	234.1648 ppm	20.0816 ppm	0.1102 ppm
Concentration per Run 3	-0.0039 ppm	0.0914 ppm	0.3020 ppm	0.6432 ppm	234.0407 ppm	20.2498 ppm	0.1112 ppm
Concentration RSD	3.1 %	0.9 %	0.2 %	0.4 %	0.3 %	0.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.6463 ppm	2.5540 ppm	0.0137 ppm	1.2058 ppm	0.2013 ppm	0.8148 ppm	-0.0002 ppm
Concentration per Run 1	63.0194 ppm	2.5407 ppm	0.0137 ppm	1.2015 ppm	0.2002 ppm	0.8202 ppm	-0.0038 ppm
Concentration per Run 2	64.0487 ppm	2.5737 ppm	0.0137 ppm	1.2009 ppm	0.2026 ppm	0.8136 ppm	0.0017 ppm
Concentration per Run 3	63.8706 ppm	2.5477 ppm	0.0137 ppm	1.2150 ppm	0.2011 ppm	0.8105 ppm	0.0015 ppm
Concentration RSD	0.9 %	0.7 %	0.1 %	0.7 %	0.6 %	0.6 %	1,722.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	5.1895 ppm	0.0441 ppm	0.2125 ppm	8.0904 ppm	0.0088 ppm	0.4295 ppm
Concentration per Run 1	-0.0057 ppm	5.0543 ppm	0.0452 ppm	0.2127 ppm	8.0399 ppm	0.0077 ppm	0.4284 ppm
Concentration per Run 2	-0.0053 ppm	5.3369 ppm	0.0437 ppm	0.2124 ppm	8.1196 ppm	0.0096 ppm	0.4303 ppm
Concentration per Run 3	-0.0047 ppm	5.1773 ppm	0.0436 ppm	0.2125 ppm	8.1118 ppm	0.0091 ppm	0.4298 ppm
Concentration RSD	9.8 %	2.7 %	2.0 %	0.1 %	0.5 %	11.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9232 ppm	103.8966 %	106.0548 %	97.6945 %	123.5380 %	127.1877 %	125.1892 %
Concentration per Run 1	0.9197 ppm	104.0517 %	105.9033 %	97.0836 %	124.0339 %	127.2133 %	124.5696 %
Concentration per Run 2	0.9266 ppm	103.7456 %	105.1970 %	97.9749 %	122.9852 %	125.8046 %	125.8054 %
Concentration per Run 3	0.9235 ppm	103.8924 %	107.0641 %	98.0251 %	123.5948 %	128.5452 %	125.1927 %
Concentration RSD	0.4 %	0.1 %	0.9 %	0.5 %	0.4 %	1.1 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:23:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5045 ppm	0.4817 ppm	0.4631 ppm	0.4989 ppm	0.4906 ppm	0.5075 ppm	0.4772 ppm
Concentration per Run 1	0.5056 ppm	0.4795 ppm	0.4623 ppm	0.5023 ppm	0.4878 ppm	0.5057 ppm	0.4797 ppm
Concentration per Run 2	0.5071 ppm	0.4793 ppm	0.4574 ppm	0.5013 ppm	0.4930 ppm	0.5084 ppm	0.4705 ppm
Concentration per Run 3	0.5007 ppm	0.4863 ppm	0.4697 ppm	0.4932 ppm	0.4910 ppm	0.5083 ppm	0.4815 ppm
Recovery Percentage 1	100.894 %	96.346 %	92.619 %	99.788 %	98.114 %	101.492 %	95.448 %
Concentration RSD	0.7 %	0.8 %	1.3 %	1.0 %	0.5 %	0.3 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5134 ppm	0.5155 ppm	0.4910 ppm	0.4958 ppm	0.5127 ppm	5.0211 ppm	0.4890 ppm
Concentration per Run 1	0.5148 ppm	0.5189 ppm	0.4921 ppm	0.5010 ppm	0.5131 ppm	4.9968 ppm	0.4870 ppm
Concentration per Run 2	0.5126 ppm	0.5147 ppm	0.4937 ppm	0.4967 ppm	0.5093 ppm	5.0292 ppm	0.4903 ppm
Concentration per Run 3	0.5129 ppm	0.5129 ppm	0.4872 ppm	0.4896 ppm	0.5157 ppm	5.0373 ppm	0.4898 ppm
Recovery Percentage 1	102.687 %	103.105 %	98.202 %	99.150 %	102.541 %	100.422 %	97.808 %
Concentration RSD	0.2 %	0.6 %	0.7 %	1.2 %	0.6 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4917 ppm	0.4831 ppm	0.4991 ppm	9.7244 ppm	0.5124 ppm	0.4927 ppm	0.4977 ppm
Concentration per Run 1	0.4941 ppm	0.4810 ppm	0.5000 ppm	9.6345 ppm	0.5125 ppm	0.4929 ppm	0.5024 ppm
Concentration per Run 2	0.4967 ppm	0.4833 ppm	0.4985 ppm	9.8428 ppm	0.5173 ppm	0.4882 ppm	0.5009 ppm
Concentration per Run 3	0.4842 ppm	0.4851 ppm	0.4987 ppm	9.6958 ppm	0.5072 ppm	0.4970 ppm	0.4898 ppm
Recovery Percentage 1	98.337 %	96.620 %	99.817 %	97.244 %	102.474 %	98.542 %	99.538 %
Concentration RSD	1.3 %	0.4 %	0.2 %	1.1 %	1.0 %	0.9 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4782 ppm	5.6834 ppm	0.5314 ppm	0.4916 ppm	0.5063 ppm	0.4893 ppm	0.4875 ppm
Concentration per Run 1	0.4783 ppm	5.7104 ppm	0.5349 ppm	0.4891 ppm	0.5069 ppm	0.4899 ppm	0.4907 ppm
Concentration per Run 2	0.4677 ppm	5.6875 ppm	0.5346 ppm	0.4940 ppm	0.5094 ppm	0.4825 ppm	0.4898 ppm
Concentration per Run 3	0.4887 ppm	5.6523 ppm	0.5248 ppm	0.4918 ppm	0.5026 ppm	0.4955 ppm	0.4818 ppm
Recovery Percentage 1	95.641 %	108.255 %	106.285 %	98.329 %	101.265 %	97.854 %	97.491 %
Concentration RSD	2.2 %	0.5 %	1.1 %	0.5 %	0.7 %	1.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5101 ppm	102.3595 %	101.8046 %	102.6793 %	102.4207 %	102.1292 %	103.7705 %
Concentration per Run 1	0.5144 ppm	102.9075 %	101.4890 %	102.2724 %	103.2176 %	101.9585 %	103.4689 %
Concentration per Run 2	0.5110 ppm	101.2486 %	102.7945 %	104.0297 %	101.1175 %	102.9738 %	105.0436 %
Concentration per Run 3	0.5049 ppm	102.9224 %	101.1305 %	101.7357 %	102.9270 %	101.4552 %	102.7990 %
Recovery Percentage 1	102.020 %						
Concentration RSD	0.9 %	0.9 %	0.9 %	1.2 %	1.1 %	0.8 %	1.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:26:41 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0013 ppm	-0.0024 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0014 ppm	-0.0032 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0004 ppm	-0.0013 ppm	-0.0029 ppm	-0.0003 ppm	0.0004 ppm	0.0004 ppm	-0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0040 ppm	-0.0011 ppm	-0.0010 ppm	0.0007 ppm	0.0004 ppm	0.0019 ppm
Recovery Percentage 1	2.940 %	1.339 %	-48.568 %	-0.971 %	5.237 %	10.134 %	0.114 %
Concentration RSD	72.4 %	198.6 %	48.0 %	238.6 %	24.3 %	5.2 %	1,580.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0040 ppm	-0.0219 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0010 ppm	0.0037 ppm	-0.0230 ppm	0.0013 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0044 ppm	-0.0245 ppm	0.0009 ppm
Concentration per Run 3	0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0012 ppm	0.0038 ppm	-0.0184 ppm	0.0013 ppm
Recovery Percentage 1	7.659 %	0.148 %	1.763 %	10.651 %	7.933 %	-0.878 %	22.933 %
Concentration RSD	52.5 %	1,682.3 %	110.8 %	11.2 %	10.6 %	14.6 %	20.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0004 ppm	0.0020 ppm	-0.0041 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	-0.0044 ppm	0.0004 ppm	0.0017 ppm	0.0050 ppm	0.0004 ppm	-0.0007 ppm	-0.0021 ppm
Concentration per Run 2	-0.0024 ppm	0.0003 ppm	0.0019 ppm	-0.0069 ppm	0.0005 ppm	0.0006 ppm	0.0009 ppm
Concentration per Run 3	0.0009 ppm	0.0004 ppm	0.0023 ppm	-0.0103 ppm	-0.0006 ppm	0.0010 ppm	0.0030 ppm
Recovery Percentage 1	-1.949 %	3.727 %	3.945 %	-0.204 %	0.365 %	2.960 %	1.228 %
Concentration RSD	138.1 %	21.4 %	14.8 %	197.6 %	688.1 %	308.7 %	415.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.0047 ppm	0.0015 ppm	0.0002 ppm	0.0010 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	-0.0012 ppm	0.0054 ppm	0.0013 ppm	0.0002 ppm	0.0011 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 2	-0.0020 ppm	0.0040 ppm	0.0018 ppm	0.0003 ppm	0.0011 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 3	0.0046 ppm	0.0046 ppm	0.0013 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	4.572 %	0.934 %	3.014 %	2.313 %	9.811 %	5.170 %	0.362 %
Concentration RSD	798.7 %	14.6 %	19.0 %	34.0 %	21.0 %	114.5 %	933.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	103.0455 %	101.7962 %	104.0242 %	104.6752 %	102.8791 %	105.2275 %
Concentration per Run 1	0.0007 ppm	102.4817 %	102.4268 %	103.9841 %	103.9955 %	103.5144 %	105.5281 %
Concentration per Run 2	0.0007 ppm	103.7770 %	101.9993 %	104.5279 %	105.6255 %	103.4435 %	105.5398 %
Concentration per Run 3	0.0007 ppm	102.8779 %	100.9626 %	103.5605 %	104.4045 %	101.6795 %	104.6147 %
Recovery Percentage 1	13.981 %						
Concentration RSD	4.8 %	0.6 %	0.7 %	0.5 %	0.8 %	1.0 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935663-2d2 WG1935663
Analysis started at: 6/18/2024 8:32:48 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3091 ppm	16.5110 ppm	1.1024 ppm	0.8961 ppm	1.0289 ppm	0.6216 ppm	18.1368 ppm
Concentration per Run 1	0.3094 ppm	16.5447 ppm	1.1073 ppm	0.8876 ppm	1.0350 ppm	0.6248 ppm	18.2743 ppm
Concentration per Run 2	0.3073 ppm	16.4989 ppm	1.0941 ppm	0.8979 ppm	1.0310 ppm	0.6219 ppm	18.0926 ppm
Concentration per Run 3	0.3107 ppm	16.4894 ppm	1.1058 ppm	0.9027 ppm	1.0206 ppm	0.6180 ppm	18.0435 ppm
Concentration RSD	0.5 %	0.2 %	0.7 %	0.9 %	0.7 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7932 ppm	0.3095 ppm	0.6725 ppm	0.7775 ppm	21.2179 ppm	3.8521 ppm	0.4672 ppm
Concentration per Run 1	0.7937 ppm	0.3081 ppm	0.6715 ppm	0.7763 ppm	21.3428 ppm	3.8940 ppm	0.4703 ppm
Concentration per Run 2	0.7878 ppm	0.3080 ppm	0.6701 ppm	0.7771 ppm	21.1956 ppm	3.8619 ppm	0.4680 ppm
Concentration per Run 3	0.7980 ppm	0.3123 ppm	0.6758 ppm	0.7790 ppm	21.1152 ppm	3.8003 ppm	0.4634 ppm
Concentration RSD	0.6 %	0.8 %	0.4 %	0.2 %	0.5 %	1.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3842 ppm	1.9244 ppm	0.4964 ppm	6.6276 ppm	1.1971 ppm	0.3357 ppm	0.7955 ppm
Concentration per Run 1	5.3930 ppm	1.9363 ppm	0.4868 ppm	6.6279 ppm	1.1965 ppm	0.3382 ppm	0.7955 ppm
Concentration per Run 2	5.3612 ppm	1.9228 ppm	0.4928 ppm	6.6311 ppm	1.1931 ppm	0.3340 ppm	0.7891 ppm
Concentration per Run 3	5.3985 ppm	1.9140 ppm	0.5097 ppm	6.6237 ppm	1.2015 ppm	0.3349 ppm	0.8019 ppm
Concentration RSD	0.4 %	0.6 %	2.4 %	0.1 %	0.4 %	0.7 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6067 ppm	2.7373 ppm	0.2848 ppm	0.4667 ppm	1.0396 ppm	0.7280 ppm	0.3729 ppm
Concentration per Run 1	0.6111 ppm	2.7427 ppm	0.2839 ppm	0.4694 ppm	1.0423 ppm	0.7332 ppm	0.3725 ppm
Concentration per Run 2	0.6052 ppm	2.7559 ppm	0.2844 ppm	0.4673 ppm	1.0367 ppm	0.7220 ppm	0.3717 ppm
Concentration per Run 3	0.6040 ppm	2.7134 ppm	0.2860 ppm	0.4635 ppm	1.0396 ppm	0.7287 ppm	0.3746 ppm
Concentration RSD	0.6 %	0.8 %	0.4 %	0.6 %	0.3 %	0.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6210 ppm	101.1060 %	102.5413 %	98.8629 %	104.4251 %	106.9658 %	104.7319 %
Concentration per Run 1	0.6204 ppm	101.3506 %	101.4386 %	97.9463 %	104.8020 %	105.8190 %	103.7482 %
Concentration per Run 2	0.6203 ppm	100.8529 %	102.4579 %	100.4522 %	104.1016 %	106.6140 %	106.3579 %
Concentration per Run 3	0.6222 ppm	101.1146 %	103.7275 %	98.1902 %	104.3717 %	108.4645 %	104.0898 %
Concentration RSD	0.2 %	0.2 %	1.1 %	1.4 %	0.3 %	1.3 %	1.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935663-3d2 WG1935663
Analysis started at: 6/18/2024 8:36:29 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3044 ppm	16.2481 ppm	1.0800 ppm	0.8606 ppm	1.0660 ppm	0.5875 ppm	17.2756 ppm
Concentration per Run 1	0.3036 ppm	16.2231 ppm	1.0824 ppm	0.8600 ppm	1.0635 ppm	0.5881 ppm	17.2638 ppm
Concentration per Run 2	0.3056 ppm	16.2992 ppm	1.0708 ppm	0.8642 ppm	1.0692 ppm	0.5877 ppm	17.3101 ppm
Concentration per Run 3	0.3040 ppm	16.2219 ppm	1.0868 ppm	0.8577 ppm	1.0653 ppm	0.5865 ppm	17.2528 ppm
Concentration RSD	0.4 %	0.3 %	0.8 %	0.4 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.7876 ppm	0.2989 ppm	0.6299 ppm	0.7296 ppm	21.5305 ppm	3.8426 ppm	0.4600 ppm
Concentration per Run 1	0.7775 ppm	0.2959 ppm	0.6286 ppm	0.7272 ppm	21.5606 ppm	3.8639 ppm	0.4613 ppm
Concentration per Run 2	0.7990 ppm	0.3010 ppm	0.6312 ppm	0.7310 ppm	21.5496 ppm	3.8292 ppm	0.4603 ppm
Concentration per Run 3	0.7864 ppm	0.2997 ppm	0.6300 ppm	0.7307 ppm	21.4814 ppm	3.8346 ppm	0.4583 ppm
Concentration RSD	1.4 %	0.9 %	0.2 %	0.3 %	0.2 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2728 ppm	1.8726 ppm	0.4748 ppm	6.6391 ppm	1.1362 ppm	0.3364 ppm	0.7069 ppm
Concentration per Run 1	5.2563 ppm	1.8776 ppm	0.4649 ppm	6.6548 ppm	1.1367 ppm	0.3364 ppm	0.7013 ppm
Concentration per Run 2	5.2961 ppm	1.8681 ppm	0.4780 ppm	6.6245 ppm	1.1421 ppm	0.3350 ppm	0.7110 ppm
Concentration per Run 3	5.2660 ppm	1.8721 ppm	0.4814 ppm	6.6379 ppm	1.1299 ppm	0.3378 ppm	0.7083 ppm
Concentration RSD	0.4 %	0.3 %	1.8 %	0.2 %	0.5 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5906 ppm	4.3123 ppm	0.2795 ppm	0.4659 ppm	1.0560 ppm	0.7445 ppm	0.3559 ppm
Concentration per Run 1	0.5914 ppm	4.2354 ppm	0.2809 ppm	0.4647 ppm	1.0511 ppm	0.7459 ppm	0.3546 ppm
Concentration per Run 2	0.5859 ppm	4.3775 ppm	0.2783 ppm	0.4681 ppm	1.0606 ppm	0.7385 ppm	0.3567 ppm
Concentration per Run 3	0.5947 ppm	4.3240 ppm	0.2793 ppm	0.4650 ppm	1.0563 ppm	0.7491 ppm	0.3565 ppm
Concentration RSD	0.8 %	1.7 %	0.5 %	0.4 %	0.5 %	0.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5980 ppm	102.6396 %	103.6437 %	100.6576 %	106.8423 %	108.8014 %	107.7694 %
Concentration per Run 1	0.5980 ppm	102.9217 %	103.6026 %	100.3692 %	107.4562 %	108.6519 %	107.4971 %
Concentration per Run 2	0.6001 ppm	102.4960 %	103.7256 %	101.7569 %	106.4110 %	108.9358 %	108.9011 %
Concentration per Run 3	0.5959 ppm	102.5009 %	103.6030 %	99.8467 %	106.6598 %	108.8165 %	106.9100 %
Concentration RSD	0.4 %	0.2 %	0.1 %	1.0 %	0.5 %	0.1 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:39:59 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5124 ppm	0.4765 ppm	0.4708 ppm	0.5052 ppm	0.4924 ppm	0.5096 ppm	0.4790 ppm
Concentration per Run 1	0.5108 ppm	0.4763 ppm	0.4726 ppm	0.5047 ppm	0.4874 ppm	0.5053 ppm	0.4847 ppm
Concentration per Run 2	0.5188 ppm	0.4826 ppm	0.4710 ppm	0.5091 ppm	0.4879 ppm	0.5060 ppm	0.4751 ppm
Concentration per Run 3	0.5076 ppm	0.4706 ppm	0.4687 ppm	0.5017 ppm	0.5020 ppm	0.5174 ppm	0.4774 ppm
Recovery Percentage 1	102.483 %	95.298 %	94.150 %	101.037 %	98.484 %	101.914 %	95.810 %
Concentration RSD	1.1 %	1.3 %	0.4 %	0.7 %	1.7 %	1.3 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5171 ppm	0.5212 ppm	0.4988 ppm	0.5029 ppm	0.5058 ppm	5.0344 ppm	0.4978 ppm
Concentration per Run 1	0.5206 ppm	0.5220 ppm	0.4995 ppm	0.5033 ppm	0.4996 ppm	4.9933 ppm	0.4938 ppm
Concentration per Run 2	0.5220 ppm	0.5253 ppm	0.5020 ppm	0.5068 ppm	0.5029 ppm	4.9995 ppm	0.4932 ppm
Concentration per Run 3	0.5088 ppm	0.5162 ppm	0.4948 ppm	0.4987 ppm	0.5149 ppm	5.1104 ppm	0.5065 ppm
Recovery Percentage 1	103.429 %	104.239 %	99.754 %	100.579 %	101.163 %	100.688 %	99.562 %
Concentration RSD	1.4 %	0.9 %	0.7 %	0.8 %	1.6 %	1.3 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4932 ppm	0.4837 ppm	0.5125 ppm	9.7688 ppm	0.5206 ppm	0.5011 ppm	0.5101 ppm
Concentration per Run 1	0.4952 ppm	0.4809 ppm	0.5089 ppm	9.6455 ppm	0.5221 ppm	0.5039 ppm	0.5111 ppm
Concentration per Run 2	0.4948 ppm	0.4834 ppm	0.5170 ppm	9.7210 ppm	0.5222 ppm	0.4975 ppm	0.5121 ppm
Concentration per Run 3	0.4896 ppm	0.4867 ppm	0.5115 ppm	9.9400 ppm	0.5176 ppm	0.5019 ppm	0.5073 ppm
Recovery Percentage 1	98.635 %	96.732 %	102.493 %	97.688 %	104.126 %	100.214 %	102.029 %
Concentration RSD	0.6 %	0.6 %	0.8 %	1.6 %	0.5 %	0.7 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4865 ppm	5.7478 ppm	0.5369 ppm	0.4969 ppm	0.5114 ppm	0.5025 ppm	0.4944 ppm
Concentration per Run 1	0.4868 ppm	5.7384 ppm	0.5398 ppm	0.4912 ppm	0.5116 ppm	0.5021 ppm	0.4948 ppm
Concentration per Run 2	0.4806 ppm	5.8089 ppm	0.5382 ppm	0.4925 ppm	0.5159 ppm	0.5007 ppm	0.4970 ppm
Concentration per Run 3	0.4922 ppm	5.6962 ppm	0.5327 ppm	0.5069 ppm	0.5067 ppm	0.5046 ppm	0.4913 ppm
Recovery Percentage 1	97.305 %	109.483 %	107.378 %	99.372 %	102.282 %	100.492 %	98.875 %
Concentration RSD	1.2 %	1.0 %	0.7 %	1.8 %	0.9 %	0.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5148 ppm	100.6996 %	101.4178 %	100.8727 %	100.3018 %	101.2888 %	101.9098 %
Concentration per Run 1	0.5162 ppm	99.4110 %	101.6150 %	100.7042 %	98.8287 %	101.3524 %	101.9314 %
Concentration per Run 2	0.5171 ppm	101.2767 %	101.7051 %	101.5377 %	101.0698 %	101.7285 %	102.1593 %
Concentration per Run 3	0.5111 ppm	101.4111 %	100.9332 %	100.3762 %	101.0068 %	100.7855 %	101.6388 %
Recovery Percentage 1	102.958 %						
Concentration RSD	0.6 %	1.1 %	0.4 %	0.6 %	1.3 %	0.5 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:43:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0006 ppm	0.0012 ppm	-0.0012 ppm	0.0007 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run 1	0.0005 ppm	-0.0038 ppm	0.0010 ppm	-0.0008 ppm	0.0006 ppm	0.0004 ppm	0.0043 ppm
Concentration per Run 2	0.0007 ppm	-0.0005 ppm	0.0023 ppm	-0.0019 ppm	0.0005 ppm	0.0004 ppm	0.0014 ppm
Concentration per Run 3	0.0004 ppm	0.0026 ppm	0.0004 ppm	-0.0010 ppm	0.0009 ppm	0.0004 ppm	-0.0009 ppm
Recovery Percentage 1	7.796 %	-0.573 %	24.145 %	-4.152 %	6.669 %	9.699 %	1.576 %
Concentration RSD	33.0 %	561.4 %	82.8 %	46.3 %	28.0 %	5.9 %	165.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0028 ppm	-0.0426 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0026 ppm	-0.0482 ppm	0.0004 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm	-0.0329 ppm	0.0022 ppm
Concentration per Run 3	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0010 ppm	0.0030 ppm	-0.0467 ppm	0.0015 ppm
Recovery Percentage 1	9.070 %	-0.149 %	2.317 %	6.005 %	5.545 %	-1.704 %	27.162 %
Concentration RSD	49.7 %	900.7 %	86.3 %	51.1 %	7.0 %	19.8 %	66.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0003 ppm	0.0028 ppm	-0.0086 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0019 ppm	0.0003 ppm	0.0027 ppm	-0.0098 ppm	0.0007 ppm	-0.0007 ppm	0.0031 ppm
Concentration per Run 2	-0.0036 ppm	0.0003 ppm	0.0031 ppm	-0.0077 ppm	-0.0004 ppm	-0.0002 ppm	-0.0026 ppm
Concentration per Run 3	-0.0015 ppm	0.0003 ppm	0.0025 ppm	-0.0083 ppm	0.0004 ppm	0.0011 ppm	0.0011 ppm
Recovery Percentage 1	-2.320 %	3.308 %	5.558 %	-0.431 %	0.940 %	0.663 %	1.095 %
Concentration RSD	47.1 %	3.5 %	11.3 %	13.0 %	230.5 %	1,395.3 %	529.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.0026 ppm	0.0013 ppm	0.0003 ppm	0.0011 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0017 ppm	0.0007 ppm	0.0002 ppm	0.0011 ppm	0.0020 ppm	0.0002 ppm
Concentration per Run 2	0.0019 ppm	0.0031 ppm	0.0019 ppm	0.0003 ppm	0.0011 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 3	0.0035 ppm	0.0031 ppm	0.0014 ppm	0.0003 ppm	0.0012 ppm	0.0013 ppm	0.0002 ppm
Recovery Percentage 1	18.663 %	0.526 %	2.691 %	2.657 %	11.350 %	6.958 %	1.181 %
Concentration RSD	86.8 %	31.1 %	42.4 %	28.0 %	4.6 %	37.7 %	111.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	101.6039 %	99.6117 %	102.5485 %	102.2638 %	100.6869 %	103.8253 %
Concentration per Run 1	0.0006 ppm	102.0488 %	98.6567 %	102.6259 %	102.6827 %	99.7394 %	103.8402 %
Concentration per Run 2	0.0004 ppm	100.7123 %	100.0878 %	102.5950 %	101.2327 %	100.9434 %	103.6801 %
Concentration per Run 3	0.0007 ppm	102.0505 %	100.0906 %	102.4247 %	102.8759 %	101.3778 %	103.9556 %
Recovery Percentage 1	11.317 %						
Concentration RSD	29.6 %	0.8 %	0.8 %	0.1 %	0.9 %	0.8 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-1 WG1935441
Analysis started at: 6/18/2024 8:48:36 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0023 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	0.0004 ppm	0.0051 ppm	-0.0003 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0044 ppm
Concentration per Run 2	-0.0005 ppm	0.0031 ppm	0.0009 ppm	-0.0020 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0002 ppm	-0.0014 ppm	-0.0001 ppm	-0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	7,505.0 %	147.7 %	509.0 %	194.7 %	88.6 %	37.8 %	137.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm	-0.0484 ppm	0.0011 ppm
Concentration per Run 1	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	-0.0317 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0465 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	0.0029 ppm	-0.0669 ppm	0.0020 ppm
Concentration RSD	487.6 %	23.4 %	126.8 %	505.4 %	110.3 %	36.5 %	77.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0115 ppm	0.0000 ppm	-0.0010 ppm	-0.0023 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0059 ppm	-0.0005 ppm	-0.0012 ppm	-0.0025 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0171 ppm	-0.0003 ppm	-0.0007 ppm	-0.0051 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0115 ppm	0.0010 ppm	-0.0010 ppm	0.0008 ppm
Concentration RSD	153.0 %	19,465.2 %	27.6 %	48.4 %	1,876.1 %	26.7 %	130.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	-0.0023 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0002 ppm
Concentration per Run 1	-0.0012 ppm	-0.0037 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0017 ppm	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	-0.0016 ppm	0.0008 ppm	-0.0001 ppm	0.0009 ppm	0.0016 ppm	-0.0004 ppm
Concentration RSD	441.1 %	51.2 %	390.3 %	21.7 %	50.5 %	47.7 %	122.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	101.4115 %	101.4954 %	103.5171 %	101.0905 %	101.9949 %	102.8235 %
Concentration per Run 1	0.0009 ppm	101.2417 %	102.4047 %	103.4481 %	100.9127 %	103.2519 %	102.9055 %
Concentration per Run 2	0.0006 ppm	100.1394 %	101.0561 %	103.5513 %	99.8042 %	101.0075 %	102.6203 %
Concentration per Run 3	0.0005 ppm	102.8534 %	101.0252 %	103.5519 %	102.5545 %	101.7253 %	102.9447 %
Concentration RSD	30.7 %	1.3 %	0.8 %	0.1 %	1.4 %	1.1 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-2 WG1935441
Analysis started at: 6/18/2024 8:52:15 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0517 ppm	1.9777 ppm	0.1202 ppm	1.0260 ppm	1.9988 ppm	0.0513 ppm	10.2547 ppm
Concentration per Run 1	0.0513 ppm	1.9924 ppm	0.1195 ppm	1.0302 ppm	2.0036 ppm	0.0516 ppm	10.2821 ppm
Concentration per Run 2	0.0517 ppm	1.9666 ppm	0.1211 ppm	1.0263 ppm	1.9915 ppm	0.0512 ppm	10.2479 ppm
Concentration per Run 3	0.0522 ppm	1.9740 ppm	0.1201 ppm	1.0216 ppm	2.0012 ppm	0.0512 ppm	10.2342 ppm
Concentration RSD	0.9 %	0.7 %	0.7 %	0.4 %	0.3 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0563 ppm	0.5120 ppm	0.1991 ppm	0.2539 ppm	1.0156 ppm	10.6415 ppm	0.0004 ppm
Concentration per Run 1	0.0560 ppm	0.5095 ppm	0.1999 ppm	0.2531 ppm	1.0210 ppm	10.6986 ppm	0.0004 ppm
Concentration per Run 2	0.0568 ppm	0.5138 ppm	0.1985 ppm	0.2557 ppm	1.0139 ppm	10.6049 ppm	0.0007 ppm
Concentration per Run 3	0.0562 ppm	0.5126 ppm	0.1989 ppm	0.2529 ppm	1.0119 ppm	10.6209 ppm	0.0002 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %	0.6 %	0.5 %	0.5 %	60.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2914 ppm	0.5020 ppm	0.9129 ppm	10.5254 ppm	0.5150 ppm	0.5530 ppm	0.4224 ppm
Concentration per Run 1	10.3347 ppm	0.5047 ppm	0.8952 ppm	10.5698 ppm	0.5180 ppm	0.5539 ppm	0.4190 ppm
Concentration per Run 2	10.1695 ppm	0.4996 ppm	0.9101 ppm	10.4673 ppm	0.5131 ppm	0.5541 ppm	0.4181 ppm
Concentration per Run 3	10.3701 ppm	0.5017 ppm	0.9332 ppm	10.5390 ppm	0.5139 ppm	0.5509 ppm	0.4301 ppm
Concentration RSD	1.0 %	0.5 %	2.1 %	0.5 %	0.5 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1187 ppm	1.0516 ppm	1.0221 ppm	0.9887 ppm	1.0429 ppm	0.1248 ppm	0.5056 ppm
Concentration per Run 1	0.1177 ppm	1.0519 ppm	1.0215 ppm	0.9913 ppm	1.0489 ppm	0.1262 ppm	0.5046 ppm
Concentration per Run 2	0.1203 ppm	1.0510 ppm	1.0201 ppm	0.9838 ppm	1.0280 ppm	0.1251 ppm	0.5060 ppm
Concentration per Run 3	0.1180 ppm	1.0518 ppm	1.0247 ppm	0.9910 ppm	1.0518 ppm	0.1231 ppm	0.5062 ppm
Concentration RSD	1.2 %	0.0 %	0.2 %	0.4 %	1.2 %	1.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5138 ppm	100.1942 %	100.2725 %	100.0171 %	99.5334 %	100.1276 %	101.8897 %
Concentration per Run 1	0.5148 ppm	100.4719 %	100.4832 %	99.0058 %	99.6680 %	100.4467 %	100.7817 %
Concentration per Run 2	0.5131 ppm	100.1820 %	99.4189 %	100.8285 %	99.9680 %	99.4134 %	102.7835 %
Concentration per Run 3	0.5134 ppm	99.9286 %	100.9154 %	100.2170 %	98.9641 %	100.5227 %	102.1039 %
Concentration RSD	0.2 %	0.3 %	0.8 %	0.9 %	0.5 %	0.6 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-01 WG1935441
Analysis started at: 6/18/2024 8:58:51 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.2137 ppm	0.0012 ppm	0.0256 ppm	0.0747 ppm	0.0001 ppm	50.8907 ppm
Concentration per Run 1	-0.0004 ppm	0.2138 ppm	-0.0001 ppm	0.0247 ppm	0.0747 ppm	0.0000 ppm	50.8366 ppm
Concentration per Run 2	0.0001 ppm	0.2184 ppm	0.0032 ppm	0.0250 ppm	0.0745 ppm	0.0001 ppm	50.4029 ppm
Concentration per Run 3	0.0000 ppm	0.2089 ppm	0.0006 ppm	0.0269 ppm	0.0751 ppm	0.0001 ppm	51.4327 ppm
Concentration RSD	322.9 %	2.2 %	143.3 %	4.7 %	0.4 %	27.1 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0010 ppm	0.0082 ppm	0.0071 ppm	0.6421 ppm	6.4158 ppm	0.0016 ppm
Concentration per Run 1	0.0003 ppm	0.0008 ppm	0.0079 ppm	0.0069 ppm	0.6403 ppm	6.4365 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	0.0082 ppm	0.0072 ppm	0.6407 ppm	6.3826 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0083 ppm	0.0073 ppm	0.6454 ppm	6.4285 ppm	0.0012 ppm
Concentration RSD	76.5 %	18.5 %	2.3 %	2.8 %	0.4 %	0.5 %	37.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.8745 ppm	0.1165 ppm	0.0083 ppm	6.3580 ppm	0.0076 ppm	0.0028 ppm	0.0033 ppm
Concentration per Run 1	15.8950 ppm	0.1168 ppm	0.0092 ppm	6.3688 ppm	0.0073 ppm	0.0020 ppm	0.0026 ppm
Concentration per Run 2	15.8946 ppm	0.1157 ppm	0.0084 ppm	6.3205 ppm	0.0079 ppm	0.0018 ppm	0.0036 ppm
Concentration per Run 3	15.8339 ppm	0.1170 ppm	0.0072 ppm	6.3848 ppm	0.0076 ppm	0.0045 ppm	0.0038 ppm
Concentration RSD	0.2 %	0.6 %	11.9 %	0.5 %	3.7 %	54.3 %	18.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	3.5779 ppm	0.0050 ppm	0.3552 ppm	0.0086 ppm	0.0008 ppm	0.0010 ppm
Concentration per Run 1	-0.0035 ppm	3.5640 ppm	0.0058 ppm	0.3530 ppm	0.0087 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 2	-0.0004 ppm	3.5806 ppm	0.0052 ppm	0.3563 ppm	0.0085 ppm	0.0010 ppm	0.0011 ppm
Concentration per Run 3	-0.0032 ppm	3.5892 ppm	0.0039 ppm	0.3563 ppm	0.0086 ppm	0.0006 ppm	0.0010 ppm
Concentration RSD	71.4 %	0.4 %	20.0 %	0.5 %	1.3 %	27.2 %	16.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0192 ppm	99.8455 %	101.1225 %	97.1033 %	99.6998 %	101.8961 %	100.3205 %
Concentration per Run 1	0.0193 ppm	99.0855 %	102.0170 %	97.3432 %	99.1086 %	102.8969 %	100.4388 %
Concentration per Run 2	0.0190 ppm	98.7538 %	100.4274 %	97.1055 %	98.7572 %	100.9481 %	100.3254 %
Concentration per Run 3	0.0192 ppm	101.6973 %	100.9231 %	96.8613 %	101.2336 %	101.8433 %	100.1972 %
Concentration RSD	0.9 %	1.6 %	0.8 %	0.2 %	1.3 %	1.0 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-3 WG1935441
Analysis started at: 6/18/2024 9:02:36 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	2.3168 ppm	0.1243 ppm	1.0628 ppm	2.0811 ppm	0.0522 ppm	61.6759 ppm
Concentration per Run 1	0.0507 ppm	2.3186 ppm	0.1223 ppm	1.0591 ppm	2.0786 ppm	0.0523 ppm	61.5722 ppm
Concentration per Run 2	0.0519 ppm	2.3174 ppm	0.1284 ppm	1.0617 ppm	2.0940 ppm	0.0525 ppm	62.1950 ppm
Concentration per Run 3	0.0515 ppm	2.3144 ppm	0.1223 ppm	1.0676 ppm	2.0707 ppm	0.0518 ppm	61.2605 ppm
Concentration RSD	1.1 %	0.1 %	2.8 %	0.4 %	0.6 %	0.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0550 ppm	0.4947 ppm	0.2041 ppm	0.2575 ppm	1.6044 ppm	17.2602 ppm	0.0010 ppm
Concentration per Run 1	0.0550 ppm	0.4965 ppm	0.2030 ppm	0.2578 ppm	1.6113 ppm	17.2268 ppm	0.0019 ppm
Concentration per Run 2	0.0546 ppm	0.4929 ppm	0.2037 ppm	0.2578 ppm	1.6171 ppm	17.4098 ppm	-0.0006 ppm
Concentration per Run 3	0.0554 ppm	0.4947 ppm	0.2056 ppm	0.2570 ppm	1.5847 ppm	17.1439 ppm	0.0017 ppm
Concentration RSD	0.7 %	0.4 %	0.7 %	0.2 %	1.1 %	0.8 %	136.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.8873 ppm	0.6256 ppm	0.8317 ppm	16.8994 ppm	0.5013 ppm	0.5496 ppm	0.4158 ppm
Concentration per Run 1	25.9257 ppm	0.6256 ppm	0.8153 ppm	16.8713 ppm	0.4997 ppm	0.5488 ppm	0.4067 ppm
Concentration per Run 2	25.8271 ppm	0.6311 ppm	0.8302 ppm	17.0101 ppm	0.4985 ppm	0.5514 ppm	0.4127 ppm
Concentration per Run 3	25.9092 ppm	0.6200 ppm	0.8498 ppm	16.8168 ppm	0.5059 ppm	0.5485 ppm	0.4281 ppm
Concentration RSD	0.2 %	0.9 %	2.1 %	0.6 %	0.8 %	0.3 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1245 ppm	4.7715 ppm	0.9511 ppm	1.3538 ppm	1.0358 ppm	0.1239 ppm	0.5051 ppm
Concentration per Run 1	0.1226 ppm	4.7664 ppm	0.9452 ppm	1.3486 ppm	1.0314 ppm	0.1218 ppm	0.5070 ppm
Concentration per Run 2	0.1270 ppm	4.7732 ppm	0.9454 ppm	1.3652 ppm	1.0347 ppm	0.1268 ppm	0.5041 ppm
Concentration per Run 3	0.1240 ppm	4.7751 ppm	0.9627 ppm	1.3477 ppm	1.0414 ppm	0.1232 ppm	0.5041 ppm
Concentration RSD	1.8 %	0.1 %	1.1 %	0.7 %	0.5 %	2.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5212 ppm	100.3922 %	98.5274 %	96.7598 %	100.9969 %	99.2228 %	101.4424 %
Concentration per Run 1	0.5204 ppm	100.1654 %	98.3357 %	96.8014 %	101.1326 %	97.3877 %	101.5259 %
Concentration per Run 2	0.5188 ppm	101.6833 %	97.5558 %	96.1265 %	102.3881 %	99.2616 %	100.4370 %
Concentration per Run 3	0.5243 ppm	99.3278 %	99.6908 %	97.3516 %	99.4701 %	101.0192 %	102.3643 %
Concentration RSD	0.5 %	1.2 %	1.1 %	0.6 %	1.4 %	1.8 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-4 WG1935441
Analysis started at: 6/18/2024 9:06:07 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.2032 ppm	-0.0019 ppm	0.0261 ppm	0.0742 ppm	0.0000 ppm	50.8300 ppm
Concentration per Run 1	-0.0001 ppm	0.1958 ppm	-0.0012 ppm	0.0248 ppm	0.0740 ppm	0.0000 ppm	50.6378 ppm
Concentration per Run 2	0.0001 ppm	0.2042 ppm	-0.0020 ppm	0.0263 ppm	0.0742 ppm	0.0000 ppm	50.7792 ppm
Concentration per Run 3	0.0000 ppm	0.2097 ppm	-0.0026 ppm	0.0271 ppm	0.0745 ppm	0.0000 ppm	51.0730 ppm
Concentration RSD	1,850.7 %	3.5 %	36.1 %	4.4 %	0.4 %	310.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0008 ppm	0.0078 ppm	0.0072 ppm	0.6263 ppm	6.3101 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0081 ppm	0.0073 ppm	0.6262 ppm	6.3199 ppm	0.0021 ppm
Concentration per Run 2	0.0002 ppm	0.0013 ppm	0.0076 ppm	0.0076 ppm	0.6264 ppm	6.3183 ppm	-0.0020 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0077 ppm	0.0066 ppm	0.6263 ppm	6.2922 ppm	-0.0008 ppm
Concentration RSD	20.8 %	64.8 %	3.7 %	6.5 %	0.0 %	0.2 %	952.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5976 ppm	0.1158 ppm	0.0108 ppm	6.2940 ppm	0.0067 ppm	0.0020 ppm	0.0023 ppm
Concentration per Run 1	15.6756 ppm	0.1154 ppm	0.0112 ppm	6.2971 ppm	0.0070 ppm	0.0018 ppm	0.0008 ppm
Concentration per Run 2	15.6766 ppm	0.1162 ppm	0.0108 ppm	6.2762 ppm	0.0067 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 3	15.4404 ppm	0.1160 ppm	0.0102 ppm	6.3086 ppm	0.0064 ppm	0.0026 ppm	0.0061 ppm
Concentration RSD	0.9 %	0.4 %	4.6 %	0.3 %	4.9 %	29.4 %	139.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	3.5025 ppm	0.0090 ppm	0.3516 ppm	0.0086 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 1	0.0005 ppm	3.5354 ppm	0.0089 ppm	0.3486 ppm	0.0087 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	3.5204 ppm	0.0085 ppm	0.3516 ppm	0.0088 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0021 ppm	3.4517 ppm	0.0097 ppm	0.3547 ppm	0.0085 ppm	0.0007 ppm	0.0011 ppm
Concentration RSD	226.1 %	1.3 %	7.1 %	0.9 %	1.6 %	687.6 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0192 ppm	101.2064 %	100.8005 %	100.9563 %	102.1584 %	102.2559 %	104.9683 %
Concentration per Run 1	0.0195 ppm	100.1355 %	101.3467 %	100.5337 %	101.2719 %	103.2647 %	104.4341 %
Concentration per Run 2	0.0191 ppm	101.2290 %	100.4185 %	101.4678 %	102.0056 %	101.7236 %	105.6562 %
Concentration per Run 3	0.0189 ppm	102.2547 %	100.6362 %	100.8675 %	103.1975 %	101.7793 %	104.8145 %
Concentration RSD	1.6 %	1.0 %	0.5 %	0.5 %	1.0 %	0.9 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-5 WG1935441
Analysis started at: 6/18/2024 9:09:38 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	2.1613 ppm	0.1222 ppm	1.0452 ppm	2.0058 ppm	0.0503 ppm	58.8609 ppm
Concentration per Run 1	0.0510 ppm	2.1644 ppm	0.1222 ppm	1.0595 ppm	2.0125 ppm	0.0503 ppm	58.9671 ppm
Concentration per Run 2	0.0500 ppm	2.1675 ppm	0.1215 ppm	1.0398 ppm	2.0160 ppm	0.0507 ppm	59.0269 ppm
Concentration per Run 3	0.0495 ppm	2.1521 ppm	0.1230 ppm	1.0362 ppm	1.9888 ppm	0.0500 ppm	58.5887 ppm
Concentration RSD	1.5 %	0.4 %	0.6 %	1.2 %	0.7 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0540 ppm	0.4870 ppm	0.2012 ppm	0.2524 ppm	1.6111 ppm	16.5628 ppm	0.0010 ppm
Concentration per Run 1	0.0544 ppm	0.4901 ppm	0.2035 ppm	0.2546 ppm	1.6180 ppm	16.5624 ppm	0.0026 ppm
Concentration per Run 2	0.0543 ppm	0.4884 ppm	0.2010 ppm	0.2522 ppm	1.6138 ppm	16.6629 ppm	0.0014 ppm
Concentration per Run 3	0.0534 ppm	0.4824 ppm	0.1993 ppm	0.2504 ppm	1.6014 ppm	16.4631 ppm	-0.0009 ppm
Concentration RSD	1.1 %	0.8 %	1.1 %	0.8 %	0.5 %	0.6 %	174.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.2537 ppm	0.6022 ppm	0.8242 ppm	16.3048 ppm	0.4951 ppm	0.5468 ppm	0.3456 ppm
Concentration per Run 1	25.5712 ppm	0.6030 ppm	0.8132 ppm	16.3135 ppm	0.4998 ppm	0.5478 ppm	0.3347 ppm
Concentration per Run 2	25.1723 ppm	0.6038 ppm	0.8228 ppm	16.3745 ppm	0.4948 ppm	0.5338 ppm	0.3467 ppm
Concentration per Run 3	25.0177 ppm	0.5997 ppm	0.8367 ppm	16.2263 ppm	0.4906 ppm	0.5589 ppm	0.3553 ppm
Concentration RSD	1.1 %	0.4 %	1.4 %	0.5 %	0.9 %	2.3 %	3.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1248 ppm	4.4743 ppm	0.9846 ppm	1.3037 ppm	1.0336 ppm	0.1237 ppm	0.4964 ppm
Concentration per Run 1	0.1259 ppm	4.5222 ppm	0.9874 ppm	1.3103 ppm	1.0490 ppm	0.1227 ppm	0.5007 ppm
Concentration per Run 2	0.1236 ppm	4.4777 ppm	0.9881 ppm	1.3097 ppm	1.0265 ppm	0.1219 ppm	0.4976 ppm
Concentration per Run 3	0.1248 ppm	4.4230 ppm	0.9783 ppm	1.2911 ppm	1.0254 ppm	0.1264 ppm	0.4909 ppm
Concentration RSD	0.9 %	1.1 %	0.6 %	0.8 %	1.3 %	1.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5148 ppm	99.9629 %	101.7356 %	98.1707 %	100.3059 %	102.8969 %	102.4313 %
Concentration per Run 1	0.5214 ppm	99.2254 %	101.1325 %	97.1213 %	99.4945 %	102.4436 %	101.7190 %
Concentration per Run 2	0.5170 ppm	99.7245 %	102.0225 %	100.4459 %	100.2469 %	103.2042 %	105.0119 %
Concentration per Run 3	0.5062 ppm	100.9388 %	102.0517 %	96.9450 %	101.1763 %	103.0429 %	100.5631 %
Concentration RSD	1.5 %	0.9 %	0.5 %	2.0 %	0.8 %	0.4 %	2.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935441-6d5 WG1935441
Analysis started at: 6/18/2024 9:13:07 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0946 ppm	-0.0018 ppm	0.0045 ppm	0.0149 ppm	0.0000 ppm	10.2458 ppm
Concentration per Run 1	-0.0003 ppm	0.0998 ppm	-0.0019 ppm	0.0066 ppm	0.0149 ppm	0.0000 ppm	10.3111 ppm
Concentration per Run 2	-0.0002 ppm	0.0957 ppm	-0.0024 ppm	0.0042 ppm	0.0149 ppm	0.0000 ppm	10.2041 ppm
Concentration per Run 3	0.0000 ppm	0.0883 ppm	-0.0012 ppm	0.0029 ppm	0.0150 ppm	0.0000 ppm	10.2222 ppm
Concentration RSD	114.2 %	6.2 %	33.1 %	41.3 %	0.5 %	59.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0006 ppm	0.0020 ppm	0.0016 ppm	0.1438 ppm	1.2380 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0010 ppm	0.0022 ppm	0.0018 ppm	0.1438 ppm	1.2509 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	-0.0005 ppm	0.0020 ppm	0.0016 ppm	0.1442 ppm	1.2252 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.0014 ppm	0.1433 ppm	1.2378 ppm	0.0008 ppm
Concentration RSD	64.3 %	68.7 %	7.9 %	10.4 %	0.3 %	1.0 %	70.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1780 ppm	0.0234 ppm	0.0117 ppm	1.2235 ppm	0.0015 ppm	0.0005 ppm	0.0081 ppm
Concentration per Run 1	3.2007 ppm	0.0236 ppm	0.0125 ppm	1.2353 ppm	0.0009 ppm	0.0010 ppm	0.0103 ppm
Concentration per Run 2	3.1511 ppm	0.0235 ppm	0.0121 ppm	1.2153 ppm	0.0020 ppm	0.0004 ppm	0.0071 ppm
Concentration per Run 3	3.1822 ppm	0.0233 ppm	0.0106 ppm	1.2199 ppm	0.0016 ppm	0.0002 ppm	0.0069 ppm
Concentration RSD	0.8 %	0.6 %	8.8 %	0.9 %	37.3 %	73.4 %	23.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.8308 ppm	0.0206 ppm	0.0697 ppm	0.0045 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0032 ppm	0.8404 ppm	0.0200 ppm	0.0695 ppm	0.0041 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.0011 ppm	0.8206 ppm	0.0218 ppm	0.0698 ppm	0.0047 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0011 ppm	0.8315 ppm	0.0199 ppm	0.0698 ppm	0.0047 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	201.9 %	1.2 %	5.3 %	0.2 %	7.3 %	118.8 %	122.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0045 ppm	101.9602 %	101.4462 %	102.8554 %	101.9130 %	101.9400 %	104.1257 %
Concentration per Run 1	0.0043 ppm	101.2509 %	100.9346 %	102.9260 %	101.0676 %	101.5593 %	104.1379 %
Concentration per Run 2	0.0048 ppm	103.3690 %	102.0892 %	103.1333 %	103.2986 %	102.6481 %	104.3644 %
Concentration per Run 3	0.0043 ppm	101.2606 %	101.3148 %	102.5067 %	101.3729 %	101.6126 %	103.8749 %
Concentration RSD	6.9 %	1.2 %	0.6 %	0.3 %	1.2 %	0.6 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-02 WG1935441
Analysis started at: 6/18/2024 9:16:37 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0543 ppm	-0.0014 ppm	0.0067 ppm	0.0570 ppm	0.0000 ppm	25.6705 ppm
Concentration per Run 1	-0.0004 ppm	0.0576 ppm	-0.0013 ppm	0.0079 ppm	0.0568 ppm	0.0001 ppm	25.5619 ppm
Concentration per Run 2	0.0007 ppm	0.0499 ppm	0.0007 ppm	0.0065 ppm	0.0569 ppm	0.0000 ppm	25.6218 ppm
Concentration per Run 3	0.0001 ppm	0.0554 ppm	-0.0037 ppm	0.0056 ppm	0.0572 ppm	0.0001 ppm	25.8277 ppm
Concentration RSD	446.0 %	7.4 %	156.9 %	17.7 %	0.3 %	225.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0009 ppm	0.0544 ppm	2.1346 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0005 ppm	0.0008 ppm	0.0527 ppm	2.1557 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	0.0008 ppm	0.0005 ppm	0.0008 ppm	0.0555 ppm	2.1260 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0012 ppm	0.0549 ppm	2.1222 ppm	0.0004 ppm
Concentration RSD	231.0 %	46.6 %	21.3 %	21.8 %	2.7 %	0.9 %	76.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.7197 ppm	0.0687 ppm	0.0012 ppm	51.6465 ppm	0.0029 ppm	-0.0004 ppm	-0.0027 ppm
Concentration per Run 1	14.7787 ppm	0.0684 ppm	0.0006 ppm	51.5506 ppm	0.0037 ppm	-0.0006 ppm	-0.0022 ppm
Concentration per Run 2	14.6651 ppm	0.0685 ppm	0.0014 ppm	51.5524 ppm	0.0022 ppm	0.0004 ppm	-0.0038 ppm
Concentration per Run 3	14.7152 ppm	0.0692 ppm	0.0015 ppm	51.8367 ppm	0.0029 ppm	-0.0011 ppm	-0.0022 ppm
Concentration RSD	0.4 %	0.6 %	45.2 %	0.3 %	25.3 %	177.8 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	4.3741 ppm	0.0007 ppm	0.2738 ppm	0.0038 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 1	0.0017 ppm	4.3991 ppm	0.0004 ppm	0.2732 ppm	0.0037 ppm	0.0015 ppm	-0.0003 ppm
Concentration per Run 2	0.0018 ppm	4.3480 ppm	0.0018 ppm	0.2735 ppm	0.0036 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 3	-0.0013 ppm	4.3751 ppm	0.0001 ppm	0.2745 ppm	0.0040 ppm	0.0014 ppm	0.0000 ppm
Concentration RSD	241.3 %	0.6 %	121.8 %	0.3 %	5.8 %	4.6 %	96.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	99.9972 %	101.5072 %	97.3544 %	100.8153 %	102.8834 %	102.1436 %
Concentration per Run 1	0.0021 ppm	100.1220 %	101.9756 %	97.1439 %	100.9908 %	103.5433 %	102.1732 %
Concentration per Run 2	0.0023 ppm	99.9736 %	100.8454 %	96.9822 %	100.8696 %	101.9408 %	101.5151 %
Concentration per Run 3	0.0023 ppm	99.8960 %	101.7007 %	97.9370 %	100.5855 %	103.1661 %	102.7425 %
Concentration RSD	3.7 %	0.1 %	0.6 %	0.5 %	0.2 %	0.8 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-03 WG1935441
Analysis started at: 6/18/2024 9:20:07 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0027 ppm	-0.0011 ppm	0.1739 ppm	0.0488 ppm	0.0000 ppm	41.2003 ppm
Concentration per Run 1	-0.0002 ppm	0.0012 ppm	-0.0012 ppm	0.1768 ppm	0.0488 ppm	0.0000 ppm	41.0875 ppm
Concentration per Run 2	-0.0002 ppm	0.0015 ppm	-0.0010 ppm	0.1737 ppm	0.0487 ppm	0.0000 ppm	41.1129 ppm
Concentration per Run 3	-0.0004 ppm	0.0054 ppm	-0.0011 ppm	0.1713 ppm	0.0490 ppm	0.0001 ppm	41.4004 ppm
Concentration RSD	33.5 %	87.1 %	10.1 %	1.6 %	0.3 %	291.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0008 ppm	0.0002 ppm	0.0010 ppm	0.0082 ppm	8.1075 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0010 ppm	0.0076 ppm	8.1109 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0011 ppm	0.0074 ppm	8.0883 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0008 ppm	0.0094 ppm	8.1233 ppm	0.0013 ppm
Concentration RSD	189.6 %	38.4 %	111.8 %	17.0 %	13.3 %	0.2 %	23.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.1767 ppm	0.0321 ppm	-0.0004 ppm	18.1907 ppm	0.0005 ppm	-0.0004 ppm	-0.0037 ppm
Concentration per Run 1	19.3359 ppm	0.0323 ppm	-0.0006 ppm	18.1305 ppm	0.0014 ppm	-0.0022 ppm	-0.0082 ppm
Concentration per Run 2	19.2072 ppm	0.0321 ppm	-0.0006 ppm	18.1202 ppm	-0.0003 ppm	0.0008 ppm	-0.0031 ppm
Concentration per Run 3	18.9871 ppm	0.0319 ppm	0.0001 ppm	18.3214 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	0.9 %	0.5 %	121.0 %	0.6 %	158.9 %	358.7 %	111.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	3.2563 ppm	0.0001 ppm	0.3133 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0020 ppm	3.2682 ppm	0.0004 ppm	0.3131 ppm	0.0012 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	3.2612 ppm	0.0010 ppm	0.3104 ppm	0.0013 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	3.2395 ppm	-0.0010 ppm	0.3164 ppm	0.0011 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	257.5 %	0.5 %	776.6 %	1.0 %	11.4 %	511.9 %	211.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	100.0854 %	100.1957 %	98.3065 %	101.6079 %	101.6794 %	102.9659 %
Concentration per Run 1	0.0007 ppm	99.4315 %	99.3967 %	98.6502 %	101.1331 %	101.4099 %	103.5037 %
Concentration per Run 2	0.0008 ppm	99.7180 %	101.6117 %	98.3792 %	100.9601 %	102.5949 %	102.8935 %
Concentration per Run 3	0.0008 ppm	101.1065 %	99.5787 %	97.8901 %	102.7305 %	101.0334 %	102.5004 %
Concentration RSD	7.6 %	0.9 %	1.2 %	0.4 %	1.0 %	0.8 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-04 WG1935441
Analysis started at: 6/18/2024 9:23:36 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0156 ppm	-0.0020 ppm	0.1461 ppm	0.0409 ppm	0.0000 ppm	38.3633 ppm
Concentration per Run 1	-0.0005 ppm	0.0206 ppm	-0.0035 ppm	0.1468 ppm	0.0408 ppm	0.0000 ppm	38.4003 ppm
Concentration per Run 2	-0.0001 ppm	0.0184 ppm	-0.0010 ppm	0.1435 ppm	0.0407 ppm	0.0000 ppm	38.4908 ppm
Concentration per Run 3	-0.0006 ppm	0.0078 ppm	-0.0016 ppm	0.1478 ppm	0.0410 ppm	0.0000 ppm	38.1990 ppm
Concentration RSD	63.0 %	43.8 %	62.6 %	1.5 %	0.4 %	159.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0107 ppm	8.2137 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0117 ppm	8.2549 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0112 ppm	8.2084 ppm	0.0014 ppm
Concentration per Run 3	0.0002 ppm	-0.0007 ppm	0.0005 ppm	0.0010 ppm	0.0091 ppm	8.1778 ppm	0.0001 ppm
Concentration RSD	106.0 %	87.3 %	124.1 %	39.7 %	12.9 %	0.5 %	75.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.0173 ppm	0.0013 ppm	-0.0001 ppm	13.0697 ppm	0.0007 ppm	-0.0012 ppm	-0.0044 ppm
Concentration per Run 1	14.0827 ppm	0.0013 ppm	-0.0004 ppm	13.0821 ppm	0.0003 ppm	-0.0008 ppm	-0.0059 ppm
Concentration per Run 2	13.9948 ppm	0.0012 ppm	0.0000 ppm	13.1024 ppm	0.0018 ppm	-0.0022 ppm	-0.0061 ppm
Concentration per Run 3	13.9745 ppm	0.0014 ppm	-0.0001 ppm	13.0247 ppm	-0.0001 ppm	-0.0005 ppm	-0.0011 ppm
Concentration RSD	0.4 %	6.1 %	162.2 %	0.3 %	147.4 %	75.2 %	65.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	3.6549 ppm	-0.0008 ppm	0.2696 ppm	0.0015 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 1	-0.0005 ppm	3.6557 ppm	-0.0001 ppm	0.2682 ppm	0.0015 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	0.0018 ppm	3.6500 ppm	-0.0009 ppm	0.2706 ppm	0.0014 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0026 ppm	3.6590 ppm	-0.0014 ppm	0.2698 ppm	0.0015 ppm	0.0009 ppm	-0.0003 ppm
Concentration RSD	478.7 %	0.1 %	85.9 %	0.4 %	6.4 %	33.4 %	61.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	102.0594 %	99.7292 %	98.4782 %	101.9618 %	99.7537 %	101.2811 %
Concentration per Run 1	0.0012 ppm	102.4327 %	100.1571 %	99.5482 %	102.2942 %	100.6200 %	102.2124 %
Concentration per Run 2	0.0013 ppm	102.2590 %	99.8051 %	99.0156 %	102.3532 %	99.6403 %	101.4522 %
Concentration per Run 3	0.0011 ppm	101.4865 %	99.2255 %	96.8707 %	101.2380 %	99.0007 %	100.1786 %
Concentration RSD	9.8 %	0.5 %	0.5 %	1.4 %	0.6 %	0.8 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:27:06 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5069 ppm	0.4822 ppm	0.4678 ppm	0.4987 ppm	0.4968 ppm	0.5136 ppm	0.4908 ppm
Concentration per Run 1	0.5056 ppm	0.4769 ppm	0.4667 ppm	0.4947 ppm	0.4937 ppm	0.5073 ppm	0.4845 ppm
Concentration per Run 2	0.5065 ppm	0.4840 ppm	0.4658 ppm	0.4949 ppm	0.4965 ppm	0.5169 ppm	0.4955 ppm
Concentration per Run 3	0.5085 ppm	0.4856 ppm	0.4711 ppm	0.5064 ppm	0.5001 ppm	0.5165 ppm	0.4923 ppm
Recovery Percentage 1	101.374 %	96.435 %	93.566 %	99.739 %	99.356 %	102.713 %	98.150 %
Concentration RSD	0.3 %	1.0 %	0.6 %	1.3 %	0.6 %	1.1 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5061 ppm	0.5154 ppm	0.4953 ppm	0.4988 ppm	0.5082 ppm	5.0990 ppm	0.5066 ppm
Concentration per Run 1	0.5049 ppm	0.5155 ppm	0.4932 ppm	0.4971 ppm	0.5041 ppm	5.0697 ppm	0.5040 ppm
Concentration per Run 2	0.5065 ppm	0.5133 ppm	0.4937 ppm	0.4974 ppm	0.5084 ppm	5.1012 ppm	0.5053 ppm
Concentration per Run 3	0.5070 ppm	0.5174 ppm	0.4990 ppm	0.5021 ppm	0.5122 ppm	5.1261 ppm	0.5104 ppm
Recovery Percentage 1	101.228 %	103.082 %	99.061 %	99.769 %	101.644 %	101.980 %	101.316 %
Concentration RSD	0.2 %	0.4 %	0.6 %	0.6 %	0.8 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4891 ppm	0.4879 ppm	0.5003 ppm	9.9001 ppm	0.5159 ppm	0.4989 ppm	0.5044 ppm
Concentration per Run 1	0.4899 ppm	0.4841 ppm	0.4948 ppm	9.7532 ppm	0.5127 ppm	0.4984 ppm	0.4974 ppm
Concentration per Run 2	0.4849 ppm	0.4897 ppm	0.4967 ppm	10.0222 ppm	0.5157 ppm	0.4973 ppm	0.5083 ppm
Concentration per Run 3	0.4924 ppm	0.4899 ppm	0.5094 ppm	9.9250 ppm	0.5195 ppm	0.5010 ppm	0.5074 ppm
Recovery Percentage 1	97.811 %	97.577 %	100.056 %	99.001 %	103.188 %	99.779 %	100.880 %
Concentration RSD	0.8 %	0.7 %	1.6 %	1.4 %	0.7 %	0.4 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4827 ppm	5.6776 ppm	0.5317 ppm	0.5050 ppm	0.5085 ppm	0.4979 ppm	0.4915 ppm
Concentration per Run 1	0.4831 ppm	5.6251 ppm	0.5248 ppm	0.5012 ppm	0.5070 ppm	0.4943 ppm	0.4911 ppm
Concentration per Run 2	0.4789 ppm	5.6822 ppm	0.5316 ppm	0.5054 ppm	0.5073 ppm	0.4980 ppm	0.4889 ppm
Concentration per Run 3	0.4860 ppm	5.7254 ppm	0.5387 ppm	0.5084 ppm	0.5113 ppm	0.5013 ppm	0.4945 ppm
Recovery Percentage 1	96.537 %	108.144 %	106.337 %	101.000 %	101.704 %	99.571 %	98.306 %
Concentration RSD	0.7 %	0.9 %	1.3 %	0.7 %	0.5 %	0.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5091 ppm	101.5387 %	99.7341 %	100.3147 %	100.7492 %	99.4121 %	101.3516 %
Concentration per Run 1	0.5082 ppm	101.4954 %	100.9040 %	100.3207 %	100.5533 %	100.4552 %	101.3759 %
Concentration per Run 2	0.5056 ppm	102.3941 %	99.5483 %	100.6070 %	101.9028 %	99.3236 %	101.5662 %
Concentration per Run 3	0.5134 ppm	100.7265 %	98.7499 %	100.0163 %	99.7917 %	98.4574 %	101.1128 %
Recovery Percentage 1	101.813 %						
Concentration RSD	0.8 %	0.8 %	1.1 %	0.3 %	1.1 %	1.0 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:30:36 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0020 ppm	0.0006 ppm	-0.0014 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	-0.0005 ppm	-0.0010 ppm	0.0004 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0014 ppm	-0.0018 ppm	0.0004 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0063 ppm	0.0010 ppm	-0.0014 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	0.511 %	-2.028 %	12.605 %	-4.648 %	3.417 %	2.882 %	-0.121 %
Concentration RSD	540.7 %	187.6 %	158.1 %	30.8 %	25.0 %	18.3 %	1,093.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0020 ppm	-0.0369 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0027 ppm	-0.0320 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0006 ppm	0.0008 ppm	-0.0359 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0026 ppm	-0.0429 ppm	0.0008 ppm
Recovery Percentage 1	0.435 %	-0.933 %	2.872 %	5.360 %	4.055 %	-1.477 %	10.592 %
Concentration RSD	257.8 %	127.6 %	115.6 %	45.1 %	50.8 %	15.0 %	58.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0001 ppm	0.0018 ppm	-0.0108 ppm	-0.0009 ppm	-0.0009 ppm	-0.0036 ppm
Concentration per Run 1	-0.0006 ppm	0.0002 ppm	0.0020 ppm	-0.0165 ppm	-0.0009 ppm	-0.0011 ppm	-0.0037 ppm
Concentration per Run 2	-0.0030 ppm	0.0001 ppm	0.0018 ppm	-0.0098 ppm	-0.0011 ppm	-0.0013 ppm	-0.0011 ppm
Concentration per Run 3	-0.0021 ppm	0.0000 ppm	0.0017 ppm	-0.0062 ppm	-0.0006 ppm	-0.0004 ppm	-0.0061 ppm
Recovery Percentage 1	-1.902 %	0.996 %	3.682 %	-0.541 %	-3.487 %	-9.419 %	-7.297 %
Concentration RSD	65.8 %	126.1 %	10.5 %	48.2 %	29.1 %	51.8 %	67.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	-0.0036 ppm	0.0014 ppm	-0.0001 ppm	0.0011 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0026 ppm	-0.0031 ppm	0.0021 ppm	-0.0001 ppm	0.0010 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	-0.0036 ppm	-0.0028 ppm	-0.0003 ppm	0.0000 ppm	0.0010 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	-0.0021 ppm	-0.0050 ppm	0.0025 ppm	0.0000 ppm	0.0013 ppm	-0.0013 ppm	-0.0003 ppm
Recovery Percentage 1	-10.326 %	-0.729 %	2.843 %	-0.547 %	11.259 %	-3.074 %	-0.151 %
Concentration RSD	312.6 %	33.0 %	108.3 %	123.9 %	17.3 %	102.5 %	3,609.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	101.2254 %	98.4877 %	101.7211 %	102.5096 %	98.8177 %	103.5528 %
Concentration per Run 1	0.0003 ppm	99.9309 %	98.8471 %	97.3257 %	100.6588 %	99.4691 %	99.2885 %
Concentration per Run 2	0.0004 ppm	99.2238 %	98.4066 %	100.8885 %	100.5554 %	98.3787 %	102.9932 %
Concentration per Run 3	0.0001 ppm	104.5215 %	98.2095 %	106.9490 %	106.3146 %	98.6052 %	108.3767 %
Recovery Percentage 1	4.723 %						
Concentration RSD	62.9 %	2.8 %	0.3 %	4.8 %	3.2 %	0.6 %	4.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-05 WG1935441
Analysis started at: 6/18/2024 9:37:47 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0307 ppm	-0.0011 ppm	0.0246 ppm	0.0759 ppm	0.0000 ppm	56.8900 ppm
Concentration per Run 1	-0.0002 ppm	0.0324 ppm	-0.0041 ppm	0.0234 ppm	0.0760 ppm	0.0000 ppm	56.5833 ppm
Concentration per Run 2	-0.0001 ppm	0.0253 ppm	-0.0008 ppm	0.0265 ppm	0.0761 ppm	0.0000 ppm	57.2576 ppm
Concentration per Run 3	0.0000 ppm	0.0344 ppm	0.0015 ppm	0.0239 ppm	0.0755 ppm	0.0001 ppm	56.8292 ppm
Concentration RSD	123.5 %	15.5 %	250.7 %	6.7 %	0.4 %	72.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0017 ppm	0.0345 ppm	4.0007 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0018 ppm	0.0337 ppm	4.0476 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0010 ppm	0.0017 ppm	0.0353 ppm	3.9610 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0015 ppm	0.0346 ppm	3.9933 ppm	-0.0012 ppm
Concentration RSD	139.2 %	62.1 %	29.2 %	8.1 %	2.3 %	1.1 %	308.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.7348 ppm	0.0020 ppm	-0.0005 ppm	42.6849 ppm	0.0006 ppm	-0.0002 ppm	-0.0014 ppm
Concentration per Run 1	20.1390 ppm	0.0021 ppm	-0.0009 ppm	42.8148 ppm	0.0000 ppm	0.0005 ppm	-0.0013 ppm
Concentration per Run 2	19.6220 ppm	0.0019 ppm	-0.0004 ppm	42.6102 ppm	0.0001 ppm	-0.0004 ppm	-0.0007 ppm
Concentration per Run 3	19.4434 ppm	0.0019 ppm	-0.0003 ppm	42.6297 ppm	0.0017 ppm	-0.0007 ppm	-0.0022 ppm
Concentration RSD	1.8 %	4.7 %	62.8 %	0.3 %	164.9 %	308.9 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	4.8147 ppm	-0.0017 ppm	0.4161 ppm	0.0026 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	0.0063 ppm	4.9099 ppm	-0.0014 ppm	0.4158 ppm	0.0024 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	4.7919 ppm	-0.0018 ppm	0.4179 ppm	0.0026 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 3	0.0037 ppm	4.7423 ppm	-0.0018 ppm	0.4144 ppm	0.0027 ppm	0.0010 ppm	0.0001 ppm
Concentration RSD	104.1 %	1.8 %	14.3 %	0.4 %	6.9 %	8.2 %	51.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0037 ppm	98.5343 %	101.6115 %	96.7122 %	99.9857 %	101.1028 %	101.0546 %
Concentration per Run 1	0.0039 ppm	96.9741 %	102.6913 %	97.2107 %	99.2047 %	102.1711 %	101.6664 %
Concentration per Run 2	0.0039 ppm	98.8341 %	99.8063 %	96.1347 %	99.8210 %	99.3468 %	100.6685 %
Concentration per Run 3	0.0035 ppm	99.7949 %	102.3368 %	96.7911 %	100.9314 %	101.7906 %	100.8289 %
Concentration RSD	6.4 %	1.5 %	1.5 %	0.6 %	0.9 %	1.5 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-06 WG1935441
Analysis started at: 6/18/2024 9:41:23 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0034 ppm	-0.0004 ppm	0.0417 ppm	0.0488 ppm	0.0000 ppm	56.7191 ppm
Concentration per Run 1	0.0004 ppm	0.0019 ppm	0.0016 ppm	0.0420 ppm	0.0486 ppm	0.0000 ppm	56.6532 ppm
Concentration per Run 2	-0.0007 ppm	0.0004 ppm	0.0007 ppm	0.0420 ppm	0.0487 ppm	0.0000 ppm	56.7877 ppm
Concentration per Run 3	-0.0002 ppm	-0.0126 ppm	-0.0036 ppm	0.0410 ppm	0.0491 ppm	0.0001 ppm	56.7163 ppm
Concentration RSD	301.3 %	231.3 %	639.4 %	1.3 %	0.6 %	156.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0179 ppm	11.2136 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0180 ppm	11.1869 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0010 ppm	0.0195 ppm	11.1966 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	0.0002 ppm	0.0011 ppm	0.0163 ppm	11.2572 ppm	-0.0005 ppm
Concentration RSD	51.9 %	417.6 %	104.2 %	10.5 %	8.7 %	0.3 %	215.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.2458 ppm	0.0148 ppm	-0.0007 ppm	27.6432 ppm	0.0007 ppm	0.0007 ppm	-0.0071 ppm
Concentration per Run 1	19.2231 ppm	0.0152 ppm	-0.0005 ppm	27.4822 ppm	0.0009 ppm	0.0007 ppm	-0.0093 ppm
Concentration per Run 2	19.3346 ppm	0.0146 ppm	-0.0013 ppm	27.5129 ppm	0.0009 ppm	0.0005 ppm	-0.0047 ppm
Concentration per Run 3	19.1798 ppm	0.0146 ppm	-0.0003 ppm	27.9344 ppm	0.0003 ppm	0.0007 ppm	-0.0073 ppm
Concentration RSD	0.4 %	2.3 %	70.7 %	0.9 %	49.2 %	16.0 %	32.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	2.6564 ppm	-0.0005 ppm	0.4697 ppm	0.0013 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 1	-0.0025 ppm	2.6635 ppm	-0.0004 ppm	0.4669 ppm	0.0010 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0023 ppm	2.6774 ppm	0.0002 ppm	0.4677 ppm	0.0013 ppm	0.0018 ppm	0.0001 ppm
Concentration per Run 3	-0.0021 ppm	2.6283 ppm	-0.0015 ppm	0.4745 ppm	0.0015 ppm	0.0008 ppm	-0.0003 ppm
Concentration RSD	331.2 %	1.0 %	154.8 %	0.9 %	20.6 %	40.2 %	2,610.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	98.6976 %	100.3667 %	96.7638 %	98.9851 %	100.3323 %	100.8934 %
Concentration per Run 1	0.0015 ppm	98.7076 %	100.8537 %	95.7034 %	99.2722 %	100.8205 %	99.8860 %
Concentration per Run 2	0.0016 ppm	98.5104 %	99.6354 %	97.7619 %	98.6704 %	99.7875 %	101.8289 %
Concentration per Run 3	0.0015 ppm	98.8748 %	100.6111 %	96.8260 %	99.0128 %	100.3889 %	100.9653 %
Concentration RSD	2.6 %	0.2 %	0.6 %	1.1 %	0.3 %	0.5 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-07 WG1935441
Analysis started at: 6/18/2024 9:44:53 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0920 ppm	-0.0012 ppm	0.0099 ppm	0.0330 ppm	0.0001 ppm	12.6622 ppm
Concentration per Run 1	-0.0003 ppm	0.0855 ppm	-0.0008 ppm	0.0091 ppm	0.0331 ppm	0.0001 ppm	12.7674 ppm
Concentration per Run 2	-0.0002 ppm	0.0904 ppm	-0.0017 ppm	0.0108 ppm	0.0330 ppm	0.0001 ppm	12.5545 ppm
Concentration per Run 3	-0.0003 ppm	0.0999 ppm	-0.0012 ppm	0.0099 ppm	0.0331 ppm	0.0001 ppm	12.6648 ppm
Concentration RSD	25.3 %	8.0 %	34.2 %	8.3 %	0.1 %	8.1 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0011 ppm	0.0655 ppm	1.4427 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0009 ppm	0.0680 ppm	1.4663 ppm	0.0026 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0015 ppm	0.0617 ppm	1.4213 ppm	0.0016 ppm
Concentration per Run 3	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0010 ppm	0.0668 ppm	1.4405 ppm	0.0001 ppm
Concentration RSD	1,020.7 %	122.5 %	131.7 %	29.8 %	5.1 %	1.6 %	90.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3658 ppm	0.0029 ppm	-0.0007 ppm	41.9952 ppm	0.0007 ppm	-0.0010 ppm	-0.0048 ppm
Concentration per Run 1	4.3613 ppm	0.0030 ppm	-0.0005 ppm	41.9552 ppm	0.0010 ppm	-0.0001 ppm	-0.0043 ppm
Concentration per Run 2	4.3887 ppm	0.0030 ppm	-0.0011 ppm	41.6793 ppm	0.0006 ppm	-0.0021 ppm	-0.0040 ppm
Concentration per Run 3	4.3476 ppm	0.0027 ppm	-0.0006 ppm	42.3509 ppm	0.0006 ppm	-0.0008 ppm	-0.0059 ppm
Concentration RSD	0.5 %	5.4 %	41.3 %	0.8 %	31.0 %	100.1 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	5.3298 ppm	0.0001 ppm	0.1166 ppm	0.0035 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0013 ppm	5.3150 ppm	0.0000 ppm	0.1172 ppm	0.0032 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 2	-0.0044 ppm	5.3738 ppm	-0.0001 ppm	0.1162 ppm	0.0038 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0018 ppm	5.3007 ppm	0.0004 ppm	0.1165 ppm	0.0036 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	174.4 %	0.7 %	269.8 %	0.4 %	7.6 %	142.7 %	161.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	99.7950 %	99.9706 %	98.6375 %	99.5574 %	99.5941 %	101.5047 %
Concentration per Run 1	0.0021 ppm	100.0436 %	99.4241 %	98.7453 %	100.3673 %	99.4322 %	101.4554 %
Concentration per Run 2	0.0021 ppm	99.5480 %	100.5641 %	98.4439 %	98.8702 %	99.9311 %	101.3987 %
Concentration per Run 3	0.0023 ppm	99.7933 %	99.9236 %	98.7232 %	99.4348 %	99.4190 %	101.6600 %
Concentration RSD	3.9 %	0.2 %	0.6 %	0.2 %	0.8 %	0.3 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-08 WG1935441
Analysis started at: 6/18/2024 9:48:23 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.1495 ppm	-0.0014 ppm	0.0046 ppm	0.0612 ppm	0.0000 ppm	24.4960 ppm
Concentration per Run 1	-0.0004 ppm	0.1426 ppm	-0.0012 ppm	0.0037 ppm	0.0613 ppm	0.0000 ppm	24.5948 ppm
Concentration per Run 2	-0.0001 ppm	0.1480 ppm	-0.0037 ppm	0.0057 ppm	0.0609 ppm	0.0001 ppm	24.4599 ppm
Concentration per Run 3	-0.0005 ppm	0.1578 ppm	0.0006 ppm	0.0045 ppm	0.0613 ppm	0.0000 ppm	24.4334 ppm
Concentration RSD	52.7 %	5.2 %	155.0 %	22.1 %	0.4 %	51.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0068 ppm	0.0063 ppm	0.2074 ppm	1.9910 ppm	0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0065 ppm	0.0065 ppm	0.2073 ppm	2.0219 ppm	0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0072 ppm	0.0058 ppm	0.2111 ppm	1.9719 ppm	0.0039 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0067 ppm	0.0065 ppm	0.2036 ppm	1.9792 ppm	0.0014 ppm
Concentration RSD	199.2 %	509.9 %	5.6 %	6.0 %	1.8 %	1.4 %	59.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.5288 ppm	0.0159 ppm	0.0003 ppm	117.5818 ppm	0.0080 ppm	0.0008 ppm	-0.0052 ppm
Concentration per Run 1	7.5486 ppm	0.0157 ppm	0.0004 ppm	117.9770 ppm	0.0080 ppm	-0.0001 ppm	-0.0021 ppm
Concentration per Run 2	7.5325 ppm	0.0161 ppm	0.0002 ppm	117.3952 ppm	0.0077 ppm	0.0028 ppm	-0.0091 ppm
Concentration per Run 3	7.5053 ppm	0.0158 ppm	0.0004 ppm	117.3733 ppm	0.0084 ppm	-0.0001 ppm	-0.0044 ppm
Concentration RSD	0.3 %	1.2 %	31.3 %	0.3 %	4.6 %	195.1 %	69.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	4.9179 ppm	-0.0010 ppm	0.2199 ppm	0.0061 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	4.9323 ppm	-0.0011 ppm	0.2201 ppm	0.0056 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	4.9076 ppm	-0.0009 ppm	0.2190 ppm	0.0069 ppm	0.0021 ppm	0.0004 ppm
Concentration per Run 3	-0.0017 ppm	4.9138 ppm	-0.0009 ppm	0.2206 ppm	0.0059 ppm	0.0009 ppm	0.0008 ppm
Concentration RSD	133.9 %	0.3 %	12.0 %	0.4 %	11.0 %	51.1 %	28.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0058 ppm	99.5887 %	98.9127 %	94.3431 %	100.5461 %	99.8449 %	100.6634 %
Concentration per Run 1	0.0058 ppm	99.6481 %	99.4890 %	93.3740 %	100.9369 %	100.7216 %	99.6617 %
Concentration per Run 2	0.0058 ppm	100.1410 %	99.0730 %	94.3402 %	100.9004 %	100.0395 %	100.8563 %
Concentration per Run 3	0.0057 ppm	98.9770 %	98.1762 %	95.3151 %	99.8010 %	98.7736 %	101.4722 %
Concentration RSD	1.6 %	0.6 %	0.7 %	1.0 %	0.6 %	1.0 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433105-09 WG1935441
Analysis started at: 6/18/2024 9:51:53 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0020 ppm	-0.0021 ppm	0.0154 ppm	0.0652 ppm	0.0001 ppm	17.5026 ppm
Concentration per Run 1	-0.0002 ppm	0.0006 ppm	-0.0030 ppm	0.0143 ppm	0.0658 ppm	0.0000 ppm	17.7134 ppm
Concentration per Run 2	-0.0001 ppm	-0.0027 ppm	-0.0021 ppm	0.0163 ppm	0.0616 ppm	0.0000 ppm	16.3949 ppm
Concentration per Run 3	0.0000 ppm	0.0082 ppm	-0.0011 ppm	0.0156 ppm	0.0683 ppm	0.0001 ppm	18.3995 ppm
Concentration RSD	108.1 %	274.8 %	45.9 %	6.7 %	5.2 %	97.1 %	5.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0017 ppm	0.0030 ppm	0.0201 ppm	2.4134 ppm	0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0028 ppm	0.0213 ppm	2.4431 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0009 ppm	0.0016 ppm	0.0031 ppm	0.0177 ppm	2.2715 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0015 ppm	0.0030 ppm	0.0213 ppm	2.5256 ppm	0.0011 ppm
Concentration RSD	789.7 %	102.9 %	17.1 %	5.5 %	10.5 %	5.4 %	72.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.5139 ppm	0.0052 ppm	-0.0010 ppm	83.7948 ppm	0.0037 ppm	0.0000 ppm	-0.0038 ppm
Concentration per Run 1	6.5724 ppm	0.0053 ppm	-0.0013 ppm	84.6243 ppm	0.0035 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 2	6.4745 ppm	0.0051 ppm	-0.0011 ppm	79.2553 ppm	0.0044 ppm	-0.0002 ppm	-0.0044 ppm
Concentration per Run 3	6.4947 ppm	0.0051 ppm	-0.0007 ppm	87.5049 ppm	0.0034 ppm	0.0003 ppm	-0.0051 ppm
Concentration RSD	0.8 %	2.2 %	25.0 %	5.0 %	14.6 %	3,426.1 %	46.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	5.4223 ppm	-0.0003 ppm	0.2085 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 1	-0.0035 ppm	5.4754 ppm	0.0000 ppm	0.2107 ppm	0.0015 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	5.3867 ppm	-0.0015 ppm	0.1969 ppm	0.0013 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0046 ppm	5.4047 ppm	0.0007 ppm	0.2177 ppm	0.0010 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	79.9 %	0.9 %	415.0 %	5.1 %	20.6 %	23.7 %	774.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	100.0445 %	99.3884 %	97.0770 %	100.6547 %	99.6320 %	102.4797 %
Concentration per Run 1	0.0061 ppm	99.3927 %	96.8497 %	97.0159 %	100.2198 %	97.2137 %	102.9606 %
Concentration per Run 2	0.0058 ppm	100.6931 %	106.0024 %	96.9832 %	101.3249 %	105.4811 %	102.2417 %
Concentration per Run 3	0.0062 ppm	100.0476 %	95.3131 %	97.2321 %	100.4194 %	96.2012 %	102.2367 %
Concentration RSD	3.2 %	0.6 %	5.8 %	0.1 %	0.6 %	5.1 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-01 WG1935441
Analysis started at: 6/18/2024 9:55:23 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0860 ppm	0.0007 ppm	0.0085 ppm	0.1563 ppm	0.0001 ppm	7.5583 ppm
Concentration per Run 1	0.0001 ppm	0.0825 ppm	-0.0001 ppm	0.0082 ppm	0.1571 ppm	0.0001 ppm	7.5588 ppm
Concentration per Run 2	0.0005 ppm	0.0857 ppm	0.0003 ppm	0.0095 ppm	0.1546 ppm	0.0000 ppm	7.4959 ppm
Concentration per Run 3	0.0000 ppm	0.0898 ppm	0.0017 ppm	0.0077 ppm	0.1572 ppm	0.0001 ppm	7.6202 ppm
Concentration RSD	162.9 %	4.2 %	147.2 %	11.2 %	1.0 %	43.3 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	0.0005 ppm	0.0020 ppm	0.2330 ppm	1.3097 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0008 ppm	0.0016 ppm	0.2325 ppm	1.2980 ppm	0.0015 ppm
Concentration per Run 2	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0022 ppm	0.2284 ppm	1.3093 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0021 ppm	0.2381 ppm	1.3219 ppm	0.0003 ppm
Concentration RSD	377.1 %	43.5 %	85.4 %	17.1 %	2.1 %	0.9 %	99.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4992 ppm	0.0144 ppm	-0.0008 ppm	25.4337 ppm	0.0010 ppm	0.0001 ppm	-0.0031 ppm
Concentration per Run 1	1.4989 ppm	0.0143 ppm	-0.0013 ppm	25.4747 ppm	0.0014 ppm	-0.0001 ppm	-0.0040 ppm
Concentration per Run 2	1.4969 ppm	0.0143 ppm	-0.0005 ppm	25.1597 ppm	0.0005 ppm	-0.0002 ppm	-0.0042 ppm
Concentration per Run 3	1.5018 ppm	0.0145 ppm	-0.0006 ppm	25.6667 ppm	0.0011 ppm	0.0007 ppm	-0.0012 ppm
Concentration RSD	0.2 %	0.8 %	52.5 %	1.0 %	43.7 %	421.2 %	52.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	2.3086 ppm	0.0003 ppm	0.0678 ppm	0.0033 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	-0.0016 ppm	2.3167 ppm	-0.0002 ppm	0.0681 ppm	0.0037 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 2	-0.0029 ppm	2.3132 ppm	0.0000 ppm	0.0670 ppm	0.0032 ppm	0.0026 ppm	-0.0001 ppm
Concentration per Run 3	0.0011 ppm	2.2959 ppm	0.0012 ppm	0.0683 ppm	0.0029 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	178.5 %	0.5 %	230.0 %	1.0 %	11.3 %	213.4 %	64.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	101.5774 %	101.2687 %	101.6008 %	101.1051 %	100.5663 %	103.6088 %
Concentration per Run 1	0.0033 ppm	101.3163 %	101.6957 %	102.0287 %	100.8526 %	100.8101 %	104.6727 %
Concentration per Run 2	0.0031 ppm	102.2543 %	102.0992 %	101.6109 %	101.9224 %	101.1797 %	103.3270 %
Concentration per Run 3	0.0033 ppm	101.1617 %	100.0113 %	101.1627 %	100.5404 %	99.7090 %	102.8266 %
Concentration RSD	4.0 %	0.6 %	1.1 %	0.4 %	0.7 %	0.8 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-02 WG1935441
Analysis started at: 6/18/2024 9:58:54 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0407 ppm	0.0019 ppm	0.0055 ppm	0.1691 ppm	0.0001 ppm	6.9889 ppm
Concentration per Run 1	0.0001 ppm	0.0413 ppm	0.0042 ppm	0.0072 ppm	0.1705 ppm	0.0001 ppm	7.0284 ppm
Concentration per Run 2	-0.0006 ppm	0.0492 ppm	0.0008 ppm	0.0042 ppm	0.1689 ppm	0.0001 ppm	7.0195 ppm
Concentration per Run 3	-0.0003 ppm	0.0317 ppm	0.0007 ppm	0.0050 ppm	0.1679 ppm	0.0001 ppm	6.9187 ppm
Concentration RSD	122.4 %	21.6 %	104.0 %	27.6 %	0.8 %	33.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0006 ppm	0.0004 ppm	0.0042 ppm	1.1788 ppm	1.4518 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0043 ppm	1.1850 ppm	1.4912 ppm	0.0015 ppm
Concentration per Run 2	-0.0003 ppm	-0.0017 ppm	0.0001 ppm	0.0041 ppm	1.1805 ppm	1.4639 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0041 ppm	1.1709 ppm	1.4002 ppm	0.0000 ppm
Concentration RSD	62.1 %	159.9 %	106.2 %	3.0 %	0.6 %	3.2 %	169.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6602 ppm	0.3202 ppm	-0.0011 ppm	22.1088 ppm	0.0019 ppm	-0.0002 ppm	-0.0039 ppm
Concentration per Run 1	1.6607 ppm	0.3229 ppm	-0.0007 ppm	22.0841 ppm	0.0021 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	1.6702 ppm	0.3186 ppm	-0.0017 ppm	22.2174 ppm	0.0021 ppm	-0.0007 ppm	-0.0024 ppm
Concentration per Run 3	1.6498 ppm	0.3192 ppm	-0.0009 ppm	22.0250 ppm	0.0014 ppm	0.0000 ppm	-0.0057 ppm
Concentration RSD	0.6 %	0.7 %	50.0 %	0.4 %	19.9 %	175.9 %	43.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	2.0223 ppm	-0.0012 ppm	0.0473 ppm	0.0018 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	2.0234 ppm	-0.0013 ppm	0.0477 ppm	0.0018 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0035 ppm	2.0421 ppm	-0.0021 ppm	0.0472 ppm	0.0016 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0010 ppm	2.0013 ppm	-0.0004 ppm	0.0471 ppm	0.0020 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	512.4 %	1.0 %	68.4 %	0.6 %	10.7 %	72.0 %	1,023.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0032 ppm	102.8136 %	100.4846 %	102.1133 %	102.2811 %	99.9702 %	103.7909 %
Concentration per Run 1	0.0032 ppm	102.7152 %	100.8158 %	102.4726 %	102.4017 %	100.1313 %	104.3699 %
Concentration per Run 2	0.0032 ppm	102.4870 %	98.7006 %	101.7657 %	101.8202 %	98.4947 %	103.1133 %
Concentration per Run 3	0.0033 ppm	103.2385 %	101.9372 %	102.1015 %	102.6214 %	101.2848 %	103.8895 %
Concentration RSD	0.9 %	0.4 %	1.6 %	0.3 %	0.4 %	1.4 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-03 WG1935441
Analysis started at: 6/18/2024 10:02:25 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	2.1962 ppm	-0.0001 ppm	0.0069 ppm	0.2361 ppm	0.0002 ppm	6.4779 ppm
Concentration per Run 1	0.0001 ppm	2.2132 ppm	-0.0014 ppm	0.0061 ppm	0.2372 ppm	0.0002 ppm	6.5275 ppm
Concentration per Run 2	-0.0002 ppm	2.1802 ppm	-0.0010 ppm	0.0085 ppm	0.2352 ppm	0.0003 ppm	6.4481 ppm
Concentration per Run 3	0.0000 ppm	2.1951 ppm	0.0022 ppm	0.0062 ppm	0.2360 ppm	0.0002 ppm	6.4581 ppm
Concentration RSD	525.9 %	0.8 %	2,448.1 %	20.0 %	0.4 %	9.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0038 ppm	0.0021 ppm	0.0072 ppm	4.0826 ppm	1.4712 ppm	0.0079 ppm
Concentration per Run 1	-0.0002 ppm	0.0034 ppm	0.0022 ppm	0.0068 ppm	4.0891 ppm	1.4726 ppm	0.0095 ppm
Concentration per Run 2	-0.0002 ppm	0.0039 ppm	0.0022 ppm	0.0075 ppm	4.0687 ppm	1.4940 ppm	0.0072 ppm
Concentration per Run 3	-0.0002 ppm	0.0041 ppm	0.0019 ppm	0.0073 ppm	4.0902 ppm	1.4471 ppm	0.0069 ppm
Concentration RSD	10.7 %	9.1 %	7.2 %	4.8 %	0.3 %	1.6 %	18.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4316 ppm	0.2461 ppm	-0.0008 ppm	19.1945 ppm	0.0065 ppm	0.0059 ppm	-0.0041 ppm
Concentration per Run 1	2.4214 ppm	0.2474 ppm	-0.0004 ppm	19.2840 ppm	0.0070 ppm	0.0056 ppm	-0.0055 ppm
Concentration per Run 2	2.4335 ppm	0.2452 ppm	-0.0011 ppm	19.1351 ppm	0.0056 ppm	0.0069 ppm	-0.0011 ppm
Concentration per Run 3	2.4401 ppm	0.2456 ppm	-0.0010 ppm	19.1644 ppm	0.0068 ppm	0.0053 ppm	-0.0058 ppm
Concentration RSD	0.4 %	0.5 %	42.9 %	0.4 %	11.8 %	14.4 %	63.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	4.6108 ppm	-0.0008 ppm	0.0471 ppm	0.0254 ppm	0.0008 ppm	0.0021 ppm
Concentration per Run 1	0.0018 ppm	4.5859 ppm	-0.0005 ppm	0.0473 ppm	0.0251 ppm	0.0009 ppm	0.0021 ppm
Concentration per Run 2	0.0014 ppm	4.6298 ppm	-0.0017 ppm	0.0469 ppm	0.0259 ppm	0.0008 ppm	0.0023 ppm
Concentration per Run 3	0.0023 ppm	4.6167 ppm	-0.0003 ppm	0.0470 ppm	0.0251 ppm	0.0009 ppm	0.0017 ppm
Concentration RSD	23.7 %	0.5 %	90.6 %	0.4 %	1.8 %	8.5 %	13.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0157 ppm	100.7890 %	100.6156 %	102.0138 %	102.4382 %	102.0237 %	106.2348 %
Concentration per Run 1	0.0156 ppm	101.0386 %	100.1212 %	100.9834 %	102.7760 %	101.6834 %	105.2178 %
Concentration per Run 2	0.0158 ppm	101.3964 %	101.2373 %	102.1870 %	102.9824 %	102.4922 %	106.4060 %
Concentration per Run 3	0.0157 ppm	99.9321 %	100.4882 %	102.8710 %	101.5562 %	101.8957 %	107.0806 %
Concentration RSD	0.7 %	0.8 %	0.6 %	0.9 %	0.8 %	0.4 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-04 WG1935441
Analysis started at: 6/18/2024 10:05:55 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	1.6653 ppm	0.0097 ppm	0.0080 ppm	0.2175 ppm	0.0010 ppm	7.7206 ppm
Concentration per Run 1	0.0006 ppm	1.6893 ppm	0.0103 ppm	0.0094 ppm	0.2200 ppm	0.0010 ppm	7.7657 ppm
Concentration per Run 2	0.0007 ppm	1.6475 ppm	0.0111 ppm	0.0069 ppm	0.2153 ppm	0.0010 ppm	7.6684 ppm
Concentration per Run 3	0.0016 ppm	1.6592 ppm	0.0078 ppm	0.0076 ppm	0.2172 ppm	0.0010 ppm	7.7276 ppm
Concentration RSD	56.8 %	1.3 %	17.7 %	16.4 %	1.1 %	2.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0008 ppm	0.0070 ppm	0.0791 ppm	27.8309 ppm	1.4543 ppm	0.0048 ppm
Concentration per Run 1	-0.0006 ppm	0.0012 ppm	0.0070 ppm	0.0791 ppm	27.9709 ppm	1.4829 ppm	0.0056 ppm
Concentration per Run 2	-0.0007 ppm	0.0004 ppm	0.0073 ppm	0.0788 ppm	27.6447 ppm	1.4194 ppm	0.0041 ppm
Concentration per Run 3	-0.0008 ppm	0.0009 ppm	0.0068 ppm	0.0794 ppm	27.8772 ppm	1.4606 ppm	0.0046 ppm
Concentration RSD	12.0 %	49.3 %	4.0 %	0.4 %	0.6 %	2.2 %	16.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.8722 ppm	0.2172 ppm	-0.0012 ppm	37.5281 ppm	0.0029 ppm	0.0658 ppm	-0.0066 ppm
Concentration per Run 1	1.8813 ppm	0.2184 ppm	-0.0011 ppm	38.0420 ppm	0.0031 ppm	0.0660 ppm	-0.0045 ppm
Concentration per Run 2	1.8600 ppm	0.2157 ppm	-0.0013 ppm	37.1480 ppm	0.0028 ppm	0.0661 ppm	-0.0045 ppm
Concentration per Run 3	1.8753 ppm	0.2174 ppm	-0.0010 ppm	37.3942 ppm	0.0029 ppm	0.0652 ppm	-0.0107 ppm
Concentration RSD	0.6 %	0.6 %	14.2 %	1.2 %	6.4 %	0.7 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	3.8996 ppm	0.0005 ppm	0.0753 ppm	0.0237 ppm	0.0005 ppm	0.0047 ppm
Concentration per Run 1	-0.0016 ppm	3.9317 ppm	0.0001 ppm	0.0761 ppm	0.0227 ppm	-0.0002 ppm	0.0046 ppm
Concentration per Run 2	-0.0012 ppm	3.8612 ppm	0.0008 ppm	0.0748 ppm	0.0243 ppm	0.0015 ppm	0.0047 ppm
Concentration per Run 3	-0.0024 ppm	3.9060 ppm	0.0006 ppm	0.0750 ppm	0.0240 ppm	0.0002 ppm	0.0047 ppm
Concentration RSD	35.8 %	0.9 %	66.4 %	0.9 %	3.7 %	193.6 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0404 ppm	101.1621 %	101.1780 %	98.4615 %	103.2614 %	103.6444 %	104.7384 %
Concentration per Run 1	0.0409 ppm	100.7577 %	101.3474 %	98.4961 %	102.5112 %	103.9917 %	105.1383 %
Concentration per Run 2	0.0401 ppm	101.5496 %	102.0176 %	98.3764 %	104.0165 %	104.7580 %	104.5606 %
Concentration per Run 3	0.0400 ppm	101.1789 %	100.1689 %	98.5121 %	103.2564 %	102.1837 %	104.5164 %
Concentration RSD	1.2 %	0.4 %	0.9 %	0.1 %	0.7 %	1.3 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-05 WG1935441
Analysis started at: 6/18/2024 10:09:26 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0480 ppm	-0.0006 ppm	0.0055 ppm	0.1544 ppm	0.0001 ppm	8.2952 ppm
Concentration per Run 1	-0.0002 ppm	0.0462 ppm	-0.0006 ppm	0.0052 ppm	0.1548 ppm	0.0001 ppm	8.3252 ppm
Concentration per Run 2	-0.0005 ppm	0.0385 ppm	-0.0005 ppm	0.0050 ppm	0.1540 ppm	0.0001 ppm	8.2545 ppm
Concentration per Run 3	0.0000 ppm	0.0592 ppm	-0.0006 ppm	0.0063 ppm	0.1543 ppm	0.0001 ppm	8.3059 ppm
Concentration RSD	94.9 %	21.8 %	10.2 %	12.3 %	0.2 %	20.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0012 ppm	0.0602 ppm	1.3022 ppm	0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0015 ppm	0.0612 ppm	1.3243 ppm	0.0039 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0009 ppm	0.0593 ppm	1.2960 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0600 ppm	1.2862 ppm	0.0033 ppm
Concentration RSD	1,324.8 %	102.6 %	1,288.6 %	25.8 %	1.6 %	1.5 %	60.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.8325 ppm	0.0048 ppm	-0.0013 ppm	28.7657 ppm	0.0009 ppm	-0.0001 ppm	-0.0058 ppm
Concentration per Run 1	1.8447 ppm	0.0050 ppm	-0.0008 ppm	28.8860 ppm	0.0008 ppm	-0.0003 ppm	-0.0052 ppm
Concentration per Run 2	1.8299 ppm	0.0045 ppm	-0.0019 ppm	28.6519 ppm	0.0018 ppm	0.0007 ppm	-0.0072 ppm
Concentration per Run 3	1.8227 ppm	0.0048 ppm	-0.0013 ppm	28.7594 ppm	0.0003 ppm	-0.0007 ppm	-0.0050 ppm
Concentration RSD	0.6 %	6.1 %	39.1 %	0.4 %	79.8 %	664.8 %	21.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	2.5873 ppm	-0.0004 ppm	0.0851 ppm	0.0013 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	2.5943 ppm	-0.0001 ppm	0.0852 ppm	0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	2.5814 ppm	0.0004 ppm	0.0851 ppm	0.0015 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	2.5860 ppm	-0.0015 ppm	0.0850 ppm	0.0014 ppm	0.0014 ppm	-0.0002 ppm
Concentration RSD	2,532.0 %	0.3 %	271.5 %	0.1 %	28.5 %	185.6 %	350.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	101.6747 %	100.0231 %	101.7712 %	101.4241 %	99.2376 %	103.9932 %
Concentration per Run 1	0.0021 ppm	100.9247 %	99.2707 %	102.0329 %	100.8559 %	98.5980 %	104.7283 %
Concentration per Run 2	0.0021 ppm	101.2154 %	101.0894 %	101.5169 %	101.1298 %	99.9191 %	103.2532 %
Concentration per Run 3	0.0024 ppm	102.8841 %	99.7093 %	101.7636 %	102.2866 %	99.1956 %	103.9979 %
Concentration RSD	8.3 %	1.0 %	0.9 %	0.3 %	0.7 %	0.7 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:12:56 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5074 ppm	0.4932 ppm	0.4641 ppm	0.4967 ppm	0.4982 ppm	0.5145 ppm	0.4898 ppm
Concentration per Run 1	0.5074 ppm	0.4903 ppm	0.4685 ppm	0.4970 ppm	0.4938 ppm	0.5126 ppm	0.4889 ppm
Concentration per Run 2	0.5074 ppm	0.5010 ppm	0.4623 ppm	0.4984 ppm	0.4990 ppm	0.5160 ppm	0.4936 ppm
Concentration per Run 3	0.5074 ppm	0.4884 ppm	0.4613 ppm	0.4946 ppm	0.5019 ppm	0.5148 ppm	0.4870 ppm
Recovery Percentage 1	101.480 %	98.646 %	92.813 %	99.334 %	99.643 %	102.890 %	97.968 %
Concentration RSD	0.0 %	1.4 %	0.8 %	0.4 %	0.8 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5026 ppm	0.5152 ppm	0.4961 ppm	0.5027 ppm	0.5087 ppm	5.0677 ppm	0.5043 ppm
Concentration per Run 1	0.4946 ppm	0.5103 ppm	0.4935 ppm	0.5010 ppm	0.5069 ppm	5.0414 ppm	0.5005 ppm
Concentration per Run 2	0.5071 ppm	0.5161 ppm	0.4983 ppm	0.5013 ppm	0.5120 ppm	5.0727 ppm	0.5059 ppm
Concentration per Run 3	0.5061 ppm	0.5191 ppm	0.4964 ppm	0.5059 ppm	0.5072 ppm	5.0888 ppm	0.5065 ppm
Recovery Percentage 1	100.520 %	103.036 %	99.211 %	100.544 %	101.739 %	101.353 %	100.857 %
Concentration RSD	1.4 %	0.9 %	0.5 %	0.5 %	0.6 %	0.5 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4905 ppm	0.4883 ppm	0.5012 ppm	9.9347 ppm	0.5185 ppm	0.4979 ppm	0.5008 ppm
Concentration per Run 1	0.4873 ppm	0.4865 ppm	0.4921 ppm	9.8821 ppm	0.5167 ppm	0.5012 ppm	0.4954 ppm
Concentration per Run 2	0.4940 ppm	0.4903 ppm	0.5042 ppm	9.9450 ppm	0.5232 ppm	0.4975 ppm	0.5077 ppm
Concentration per Run 3	0.4901 ppm	0.4881 ppm	0.5074 ppm	9.9770 ppm	0.5154 ppm	0.4951 ppm	0.4994 ppm
Recovery Percentage 1	98.095 %	97.659 %	100.249 %	99.347 %	103.691 %	99.590 %	100.162 %
Concentration RSD	0.7 %	0.4 %	1.6 %	0.5 %	0.8 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4848 ppm	5.6810 ppm	0.5313 ppm	0.5047 ppm	0.5101 ppm	0.4936 ppm	0.4949 ppm
Concentration per Run 1	0.4915 ppm	5.6307 ppm	0.5290 ppm	0.5008 ppm	0.5095 ppm	0.4963 ppm	0.4928 ppm
Concentration per Run 2	0.4821 ppm	5.6979 ppm	0.5317 ppm	0.5060 ppm	0.5106 ppm	0.4929 ppm	0.4956 ppm
Concentration per Run 3	0.4807 ppm	5.7146 ppm	0.5332 ppm	0.5074 ppm	0.5101 ppm	0.4917 ppm	0.4963 ppm
Recovery Percentage 1	96.953 %	108.210 %	106.260 %	100.947 %	102.018 %	98.722 %	98.981 %
Concentration RSD	1.2 %	0.8 %	0.4 %	0.7 %	0.1 %	0.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5103 ppm	100.6801 %	98.0107 %	100.8379 %	100.0605 %	97.0217 %	102.2085 %
Concentration per Run 1	0.5070 ppm	101.0084 %	98.9662 %	100.5798 %	100.2201 %	97.9839 %	102.3168 %
Concentration per Run 2	0.5140 ppm	100.7109 %	97.2137 %	100.9040 %	100.0886 %	96.1009 %	101.8567 %
Concentration per Run 3	0.5099 ppm	100.3210 %	97.8523 %	101.0297 %	99.8729 %	96.9802 %	102.4521 %
Recovery Percentage 1	102.064 %						
Concentration RSD	0.7 %	0.3 %	0.9 %	0.2 %	0.2 %	1.0 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:16:25 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0034 ppm	-0.0024 ppm	0.0011 ppm	0.0005 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0040 ppm	-0.0019 ppm	0.0040 ppm	0.0005 ppm	0.0001 ppm	-0.0036 ppm
Concentration per Run 2	-0.0001 ppm	0.0049 ppm	-0.0025 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 3	0.0002 ppm	0.0094 ppm	-0.0029 ppm	-0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0033 ppm
Recovery Percentage 1	0.667 %	3.434 %	-48.150 %	3.594 %	4.677 %	3.151 %	-2.561 %
Concentration RSD	320.9 %	198.6 %	20.4 %	238.4 %	2.6 %	17.6 %	57.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0007 ppm	0.0004 ppm	-0.0393 ppm	0.0010 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0020 ppm	-0.0377 ppm	0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm	-0.0520 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0007 ppm	-0.0013 ppm	-0.0283 ppm	0.0013 ppm
Recovery Percentage 1	3.211 %	-2.329 %	-0.301 %	6.828 %	0.765 %	-1.573 %	19.378 %
Concentration RSD	71.3 %	49.1 %	249.8 %	7.1 %	443.0 %	30.3 %	36.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0033 ppm	0.0001 ppm	0.0017 ppm	-0.0084 ppm	0.0000 ppm	-0.0012 ppm	-0.0032 ppm
Concentration per Run 1	-0.0041 ppm	0.0001 ppm	0.0015 ppm	-0.0033 ppm	-0.0001 ppm	-0.0017 ppm	-0.0034 ppm
Concentration per Run 2	-0.0031 ppm	0.0000 ppm	0.0012 ppm	-0.0072 ppm	-0.0005 ppm	-0.0012 ppm	-0.0027 ppm
Concentration per Run 3	-0.0026 ppm	0.0001 ppm	0.0023 ppm	-0.0146 ppm	0.0006 ppm	-0.0008 ppm	-0.0036 ppm
Recovery Percentage 1	-3.255 %	0.678 %	3.327 %	-0.418 %	0.088 %	-12.236 %	-6.454 %
Concentration RSD	24.3 %	85.6 %	36.5 %	68.9 %	2,562.8 %	36.4 %	14.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	-0.0051 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0078 ppm	0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	-0.0042 ppm	-0.0005 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	-0.0034 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-4.761 %	-1.026 %	-0.003 %	-0.222 %	8.678 %	-0.652 %	0.531 %
Concentration RSD	108.4 %	46.1 %	32,074.6 %	683.9 %	14.1 %	812.7 %	225.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	102.7007 %	99.7269 %	102.7418 %	103.8946 %	99.5237 %	104.1845 %
Concentration per Run 1	0.0005 ppm	103.9356 %	99.2861 %	101.4421 %	104.8747 %	99.2707 %	102.8210 %
Concentration per Run 2	0.0002 ppm	102.0119 %	101.7976 %	102.3808 %	103.3184 %	100.9978 %	103.5940 %
Concentration per Run 3	0.0005 ppm	102.1546 %	98.0971 %	104.4027 %	103.4908 %	98.3028 %	106.1385 %
Recovery Percentage 1	8.051 %						
Concentration RSD	39.4 %	1.0 %	1.9 %	1.5 %	0.8 %	1.4 %	1.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-06 WG1935441
Analysis started at: 6/18/2024 10:26:44 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0338 ppm	-0.0001 ppm	0.0045 ppm	0.0414 ppm	0.0000 ppm	8.1990 ppm
Concentration per Run 1	-0.0003 ppm	0.0368 ppm	-0.0014 ppm	0.0036 ppm	0.0418 ppm	0.0001 ppm	8.2485 ppm
Concentration per Run 2	-0.0002 ppm	0.0382 ppm	-0.0003 ppm	0.0051 ppm	0.0415 ppm	0.0000 ppm	8.2082 ppm
Concentration per Run 3	-0.0007 ppm	0.0264 ppm	0.0013 ppm	0.0048 ppm	0.0409 ppm	-0.0001 ppm	8.1402 ppm
Concentration RSD	77.4 %	19.1 %	1,033.0 %	17.1 %	1.0 %	372.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0014 ppm	0.2945 ppm	0.7122 ppm	0.0022 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0013 ppm	0.2947 ppm	0.7509 ppm	0.0025 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0018 ppm	0.2945 ppm	0.7085 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0011 ppm	0.2942 ppm	0.6773 ppm	0.0026 ppm
Concentration RSD	25.6 %	39.4 %	514.5 %	25.7 %	0.1 %	5.2 %	27.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1555 ppm	0.1134 ppm	-0.0007 ppm	12.1706 ppm	0.0010 ppm	-0.0004 ppm	-0.0035 ppm
Concentration per Run 1	1.1669 ppm	0.1143 ppm	-0.0003 ppm	12.3269 ppm	0.0009 ppm	-0.0002 ppm	-0.0041 ppm
Concentration per Run 2	1.1486 ppm	0.1129 ppm	-0.0009 ppm	12.1955 ppm	0.0013 ppm	-0.0010 ppm	-0.0051 ppm
Concentration per Run 3	1.1510 ppm	0.1130 ppm	-0.0011 ppm	11.9894 ppm	0.0007 ppm	-0.0001 ppm	-0.0012 ppm
Concentration RSD	0.9 %	0.7 %	58.3 %	1.4 %	32.8 %	113.0 %	57.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	1.1387 ppm	-0.0013 ppm	0.0467 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0033 ppm	1.1485 ppm	-0.0017 ppm	0.0471 ppm	0.0017 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	-0.0010 ppm	1.1318 ppm	-0.0012 ppm	0.0468 ppm	0.0010 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0019 ppm	1.1356 ppm	-0.0009 ppm	0.0462 ppm	0.0018 ppm	-0.0009 ppm	0.0001 ppm
Concentration RSD	154.7 %	0.8 %	31.4 %	0.9 %	27.1 %	473.4 %	4,400.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	100.7445 %	100.2342 %	100.0735 %	100.9555 %	99.1051 %	101.2152 %
Concentration per Run 1	0.0018 ppm	98.9966 %	99.3742 %	99.8565 %	99.6417 %	98.2525 %	101.3635 %
Concentration per Run 2	0.0015 ppm	102.0641 %	101.3622 %	100.4818 %	102.4140 %	100.4999 %	101.6588 %
Concentration per Run 3	0.0017 ppm	101.1727 %	99.9661 %	99.8822 %	100.8110 %	98.5629 %	100.6233 %
Concentration RSD	9.3 %	1.6 %	1.0 %	0.4 %	1.4 %	1.2 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-07 WG1935441
Analysis started at: 6/18/2024 10:30:20 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0419 ppm	-0.0015 ppm	0.0052 ppm	0.0483 ppm	0.0000 ppm	7.9568 ppm
Concentration per Run 1	-0.0008 ppm	0.0402 ppm	-0.0006 ppm	0.0066 ppm	0.0482 ppm	0.0000 ppm	7.9368 ppm
Concentration per Run 2	-0.0008 ppm	0.0467 ppm	0.0000 ppm	0.0055 ppm	0.0484 ppm	0.0000 ppm	7.9576 ppm
Concentration per Run 3	-0.0002 ppm	0.0389 ppm	-0.0039 ppm	0.0036 ppm	0.0483 ppm	0.0001 ppm	7.9759 ppm
Concentration RSD	59.3 %	9.9 %	137.8 %	28.7 %	0.2 %	138.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0012 ppm	0.3440 ppm	0.7939 ppm	0.0034 ppm
Concentration per Run 1	-0.0001 ppm	-0.0009 ppm	0.0002 ppm	0.0013 ppm	0.3431 ppm	0.8091 ppm	0.0034 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0011 ppm	0.3424 ppm	0.8012 ppm	0.0045 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0012 ppm	0.3463 ppm	0.7714 ppm	0.0024 ppm
Concentration RSD	15,493.3 %	240.7 %	73.6 %	10.5 %	0.6 %	2.5 %	31.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1976 ppm	0.1314 ppm	-0.0009 ppm	13.0816 ppm	0.0008 ppm	-0.0004 ppm	-0.0054 ppm
Concentration per Run 1	1.2032 ppm	0.1307 ppm	-0.0010 ppm	13.0644 ppm	0.0003 ppm	-0.0001 ppm	-0.0060 ppm
Concentration per Run 2	1.1991 ppm	0.1311 ppm	-0.0006 ppm	13.1246 ppm	0.0006 ppm	-0.0005 ppm	-0.0046 ppm
Concentration per Run 3	1.1905 ppm	0.1324 ppm	-0.0012 ppm	13.0558 ppm	0.0015 ppm	-0.0006 ppm	-0.0056 ppm
Concentration RSD	0.5 %	0.7 %	30.6 %	0.3 %	80.3 %	71.3 %	13.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	1.2944 ppm	-0.0011 ppm	0.0473 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	1.3023 ppm	-0.0009 ppm	0.0474 ppm	0.0018 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0025 ppm	1.2906 ppm	-0.0003 ppm	0.0473 ppm	0.0017 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	-0.0035 ppm	1.2903 ppm	-0.0021 ppm	0.0472 ppm	0.0013 ppm	0.0005 ppm	0.0003 ppm
Concentration RSD	83.0 %	0.5 %	86.8 %	0.2 %	17.9 %	364.4 %	204.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	101.7347 %	99.8810 %	99.5944 %	101.7159 %	98.5226 %	101.0117 %
Concentration per Run 1	0.0015 ppm	100.7215 %	99.0355 %	99.7843 %	100.7207 %	98.1141 %	100.9049 %
Concentration per Run 2	0.0016 ppm	102.0613 %	100.4675 %	100.8586 %	102.4860 %	99.1407 %	102.4839 %
Concentration per Run 3	0.0014 ppm	102.4212 %	100.1400 %	98.1403 %	101.9408 %	98.3131 %	99.6462 %
Concentration RSD	7.2 %	0.9 %	0.8 %	1.4 %	0.9 %	0.6 %	1.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433161-08 WG1935441
Analysis started at: 6/18/2024 10:33:50 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	1.6650 ppm	0.0026 ppm	0.0089 ppm	0.2477 ppm	0.0004 ppm	10.4176 ppm
Concentration per Run 1	0.0003 ppm	1.6657 ppm	0.0028 ppm	0.0095 ppm	0.2477 ppm	0.0004 ppm	10.3632 ppm
Concentration per Run 2	0.0010 ppm	1.6730 ppm	0.0025 ppm	0.0088 ppm	0.2482 ppm	0.0004 ppm	10.4528 ppm
Concentration per Run 3	0.0003 ppm	1.6562 ppm	0.0025 ppm	0.0083 ppm	0.2474 ppm	0.0003 ppm	10.4368 ppm
Concentration RSD	75.0 %	0.5 %	8.5 %	7.1 %	0.2 %	4.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0016 ppm	0.0022 ppm	0.0086 ppm	20.3639 ppm	1.5036 ppm	0.0052 ppm
Concentration per Run 1	-0.0005 ppm	0.0015 ppm	0.0019 ppm	0.0087 ppm	20.4132 ppm	1.5513 ppm	0.0062 ppm
Concentration per Run 2	-0.0004 ppm	0.0010 ppm	0.0022 ppm	0.0088 ppm	20.4917 ppm	1.4977 ppm	0.0037 ppm
Concentration per Run 3	-0.0004 ppm	0.0023 ppm	0.0025 ppm	0.0084 ppm	20.1869 ppm	1.4619 ppm	0.0058 ppm
Concentration RSD	4.7 %	41.7 %	13.9 %	2.4 %	0.8 %	3.0 %	25.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6821 ppm	2.9337 ppm	-0.0013 ppm	26.7535 ppm	0.0040 ppm	0.0113 ppm	-0.0058 ppm
Concentration per Run 1	1.6922 ppm	2.9151 ppm	-0.0009 ppm	26.7734 ppm	0.0037 ppm	0.0102 ppm	-0.0043 ppm
Concentration per Run 2	1.6820 ppm	2.9561 ppm	-0.0017 ppm	27.0324 ppm	0.0044 ppm	0.0117 ppm	-0.0032 ppm
Concentration per Run 3	1.6720 ppm	2.9298 ppm	-0.0012 ppm	26.4549 ppm	0.0041 ppm	0.0119 ppm	-0.0100 ppm
Concentration RSD	0.6 %	0.7 %	33.4 %	1.1 %	8.3 %	8.2 %	62.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	2.6683 ppm	-0.0002 ppm	0.0663 ppm	0.0189 ppm	0.0004 ppm	0.0025 ppm
Concentration per Run 1	-0.0042 ppm	2.7012 ppm	-0.0007 ppm	0.0662 ppm	0.0190 ppm	-0.0008 ppm	0.0025 ppm
Concentration per Run 2	-0.0023 ppm	2.6680 ppm	-0.0004 ppm	0.0665 ppm	0.0193 ppm	0.0010 ppm	0.0026 ppm
Concentration per Run 3	-0.0032 ppm	2.6358 ppm	0.0004 ppm	0.0661 ppm	0.0184 ppm	0.0012 ppm	0.0023 ppm
Concentration RSD	30.4 %	1.2 %	269.9 %	0.3 %	2.4 %	246.0 %	7.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0337 ppm	102.3663 %	101.4821 %	100.8004 %	102.8817 %	101.3953 %	104.5266 %
Concentration per Run 1	0.0339 ppm	100.9822 %	102.9069 %	102.0359 %	101.4940 %	103.2780 %	105.3073 %
Concentration per Run 2	0.0336 ppm	102.8142 %	100.1669 %	100.4347 %	103.4511 %	100.2072 %	104.4377 %
Concentration per Run 3	0.0337 ppm	103.3025 %	101.3725 %	99.9307 %	103.7002 %	100.7007 %	103.8349 %
Concentration RSD	0.6 %	1.2 %	1.4 %	1.1 %	1.2 %	1.6 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:37:22 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5049 ppm	0.4715 ppm	0.4705 ppm	0.4947 ppm	0.4931 ppm	0.5093 ppm	0.4834 ppm
Concentration per Run 1	0.5039 ppm	0.4715 ppm	0.4704 ppm	0.4936 ppm	0.4890 ppm	0.5044 ppm	0.4827 ppm
Concentration per Run 2	0.5040 ppm	0.4728 ppm	0.4733 ppm	0.4959 ppm	0.4940 ppm	0.5085 ppm	0.4782 ppm
Concentration per Run 3	0.5069 ppm	0.4702 ppm	0.4679 ppm	0.4946 ppm	0.4963 ppm	0.5150 ppm	0.4893 ppm
Recovery Percentage 1	100.983 %	94.300 %	94.108 %	98.938 %	98.623 %	101.858 %	96.679 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.2 %	0.8 %	1.0 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4986 ppm	0.5100 ppm	0.4912 ppm	0.4991 ppm	0.5033 ppm	5.0301 ppm	0.4981 ppm
Concentration per Run 1	0.4958 ppm	0.5069 ppm	0.4904 ppm	0.4973 ppm	0.4973 ppm	5.0051 ppm	0.4960 ppm
Concentration per Run 2	0.5032 ppm	0.5151 ppm	0.4920 ppm	0.4996 ppm	0.5081 ppm	5.0299 ppm	0.4986 ppm
Concentration per Run 3	0.4968 ppm	0.5079 ppm	0.4913 ppm	0.5004 ppm	0.5043 ppm	5.0554 ppm	0.4996 ppm
Recovery Percentage 1	99.721 %	102.002 %	98.246 %	99.820 %	100.651 %	100.603 %	99.615 %
Concentration RSD	0.8 %	0.9 %	0.2 %	0.3 %	1.1 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4867 ppm	0.4815 ppm	0.4956 ppm	9.7807 ppm	0.5140 ppm	0.5055 ppm	0.4981 ppm
Concentration per Run 1	0.4855 ppm	0.4766 ppm	0.4893 ppm	9.7256 ppm	0.5120 ppm	0.5070 ppm	0.4947 ppm
Concentration per Run 2	0.4903 ppm	0.4811 ppm	0.4990 ppm	9.7737 ppm	0.5124 ppm	0.5102 ppm	0.5014 ppm
Concentration per Run 3	0.4842 ppm	0.4869 ppm	0.4985 ppm	9.8427 ppm	0.5176 ppm	0.4992 ppm	0.4981 ppm
Recovery Percentage 1	97.336 %	96.302 %	99.119 %	97.807 %	102.799 %	101.092 %	99.617 %
Concentration RSD	0.7 %	1.1 %	1.1 %	0.6 %	0.6 %	1.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4908 ppm	5.6159 ppm	0.5242 ppm	0.4984 ppm	0.5083 ppm	0.4984 ppm	0.4921 ppm
Concentration per Run 1	0.4921 ppm	5.5838 ppm	0.5211 ppm	0.4941 ppm	0.5069 ppm	0.4992 ppm	0.4897 ppm
Concentration per Run 2	0.4968 ppm	5.6491 ppm	0.5252 ppm	0.4995 ppm	0.5093 ppm	0.5012 ppm	0.4948 ppm
Concentration per Run 3	0.4834 ppm	5.6148 ppm	0.5262 ppm	0.5018 ppm	0.5088 ppm	0.4948 ppm	0.4918 ppm
Recovery Percentage 1	98.151 %	106.970 %	104.836 %	99.687 %	101.667 %	99.677 %	98.419 %
Concentration RSD	1.4 %	0.6 %	0.5 %	0.8 %	0.2 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5056 ppm	100.6863 %	99.0929 %	98.4198 %	100.1676 %	97.5850 %	99.8298 %
Concentration per Run 1	0.5037 ppm	101.0849 %	100.8947 %	97.4680 %	100.6150 %	99.3822 %	98.7786 %
Concentration per Run 2	0.5075 ppm	100.3537 %	98.7935 %	99.0058 %	99.7942 %	97.3958 %	100.1235 %
Concentration per Run 3	0.5054 ppm	100.6204 %	97.5905 %	98.7855 %	100.0936 %	95.9770 %	100.5873 %
Recovery Percentage 1	101.112 %						
Concentration RSD	0.4 %	0.4 %	1.7 %	0.8 %	0.4 %	1.8 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:40:53 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0044 ppm	-0.0009 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	-0.0044 ppm
Concentration per Run 1	-0.0004 ppm	-0.0021 ppm	-0.0010 ppm	-0.0013 ppm	0.0004 ppm	0.0001 ppm	-0.0041 ppm
Concentration per Run 2	-0.0003 ppm	-0.0041 ppm	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0002 ppm	-0.0054 ppm
Concentration per Run 3	0.0000 ppm	-0.0070 ppm	-0.0014 ppm	0.0025 ppm	0.0005 ppm	0.0001 ppm	-0.0036 ppm
Recovery Percentage 1	-3.438 %	-4.424 %	-18.697 %	0.901 %	4.692 %	3.529 %	-4.383 %
Concentration RSD	72.5 %	55.6 %	58.7 %	727.3 %	9.4 %	14.1 %	21.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0031 ppm	-0.0667 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0026 ppm	-0.0727 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm	0.0031 ppm	-0.0537 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0035 ppm	-0.0736 ppm	0.0011 ppm
Recovery Percentage 1	2.134 %	1.144 %	4.679 %	4.684 %	6.153 %	-2.667 %	21.035 %
Concentration RSD	70.3 %	120.4 %	72.9 %	67.7 %	14.8 %	16.8 %	53.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0030 ppm	0.0000 ppm	0.0016 ppm	-0.0100 ppm	0.0000 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 1	-0.0025 ppm	0.0001 ppm	0.0017 ppm	-0.0127 ppm	-0.0003 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	-0.0045 ppm	0.0001 ppm	0.0015 ppm	-0.0067 ppm	-0.0001 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 3	-0.0022 ppm	0.0000 ppm	0.0014 ppm	-0.0107 ppm	0.0004 ppm	0.0007 ppm	0.0016 ppm
Recovery Percentage 1	-3.043 %	0.441 %	3.120 %	-0.501 %	-0.025 %	2.520 %	-2.588 %
Concentration RSD	40.6 %	172.3 %	10.3 %	30.9 %	5,839.4 %	146.9 %	204.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0051 ppm	0.0008 ppm	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	-0.0043 ppm	0.0007 ppm	0.0001 ppm	0.0013 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0020 ppm	-0.0051 ppm	0.0009 ppm	0.0000 ppm	0.0008 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 3	-0.0006 ppm	-0.0060 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm	0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	5.293 %	-1.027 %	1.593 %	0.019 %	10.528 %	1.741 %	0.030 %
Concentration RSD	246.0 %	16.6 %	16.3 %	4,827.6 %	27.6 %	203.2 %	9,142.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	99.8266 %	98.5291 %	101.5256 %	100.8657 %	98.0399 %	103.0407 %
Concentration per Run 1	0.0006 ppm	98.7656 %	97.0070 %	102.8845 %	99.5369 %	96.3153 %	104.4783 %
Concentration per Run 2	0.0004 ppm	100.2992 %	101.0450 %	100.8785 %	101.2114 %	100.6801 %	102.4722 %
Concentration per Run 3	0.0006 ppm	100.4149 %	97.5354 %	100.8139 %	101.8487 %	97.1243 %	102.1715 %
Recovery Percentage 1	10.308 %						
Concentration RSD	17.1 %	0.9 %	2.2 %	1.2 %	1.2 %	2.4 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-1 WG1935652
Analysis started at: 6/18/2024 10:46:13 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0008 ppm	-0.0024 ppm	-0.0006 ppm	0.0005 ppm	0.0000 ppm	0.0354 ppm
Concentration per Run 1	-0.0006 ppm	0.0016 ppm	-0.0032 ppm	0.0016 ppm	0.0005 ppm	0.0000 ppm	0.0404 ppm
Concentration per Run 2	-0.0006 ppm	0.0027 ppm	-0.0025 ppm	-0.0021 ppm	0.0005 ppm	0.0000 ppm	0.0332 ppm
Concentration per Run 3	-0.0002 ppm	-0.0069 ppm	-0.0015 ppm	-0.0013 ppm	0.0005 ppm	0.0000 ppm	0.0325 ppm
Concentration RSD	47.0 %	635.0 %	35.3 %	315.8 %	2.7 %	825.1 %	12.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0013 ppm	0.0196 ppm	-0.0575 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0010 ppm	0.0008 ppm	0.0011 ppm	0.0198 ppm	-0.0664 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0017 ppm	0.0194 ppm	-0.0535 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0011 ppm	0.0195 ppm	-0.0526 ppm	0.0009 ppm
Concentration RSD	94.4 %	124.5 %	9.3 %	26.4 %	0.9 %	13.4 %	23.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0029 ppm	0.0019 ppm	-0.0003 ppm	-0.0006 ppm	-0.0003 ppm	-0.0003 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0019 ppm	-0.0003 ppm	0.0062 ppm	-0.0003 ppm	-0.0006 ppm	0.0016 ppm
Concentration per Run 2	0.0033 ppm	0.0018 ppm	-0.0003 ppm	-0.0043 ppm	0.0001 ppm	-0.0002 ppm	-0.0015 ppm
Concentration per Run 3	0.0054 ppm	0.0019 ppm	-0.0002 ppm	-0.0035 ppm	-0.0006 ppm	-0.0002 ppm	-0.0019 ppm
Concentration RSD	92.9 %	2.7 %	20.9 %	1,056.2 %	117.6 %	75.4 %	325.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0074 ppm	0.0008 ppm	0.0000 ppm	0.0009 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.0054 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.0056 ppm	0.0007 ppm	0.0000 ppm	0.0009 ppm	-0.0020 ppm	0.0000 ppm
Concentration per Run 3	-0.0022 ppm	0.0113 ppm	0.0012 ppm	0.0000 ppm	0.0008 ppm	0.0010 ppm	-0.0003 ppm
Concentration RSD	323.9 %	45.6 %	44.7 %	93.0 %	6.4 %	266.0 %	287.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0034 ppm	98.8910 %	99.8269 %	99.6740 %	98.9455 %	99.6451 %	101.1095 %
Concentration per Run 1	0.0033 ppm	97.8076 %	99.0530 %	98.7854 %	97.7294 %	99.0208 %	100.1669 %
Concentration per Run 2	0.0035 ppm	98.5616 %	99.9059 %	100.2890 %	98.6247 %	99.3221 %	101.9104 %
Concentration per Run 3	0.0033 ppm	100.3036 %	100.5217 %	99.9476 %	100.4824 %	100.5924 %	101.2511 %
Concentration RSD	3.9 %	1.3 %	0.7 %	0.8 %	1.4 %	0.8 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-2d2 WG1935652
Analysis started at: 6/18/2024 10:49:56 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	2.0354 ppm	0.1142 ppm	0.9426 ppm	1.9866 ppm	0.0510 ppm	9.6511 ppm
Concentration per Run 1	0.0499 ppm	2.0471 ppm	0.1151 ppm	0.9401 ppm	1.9834 ppm	0.0509 ppm	9.6984 ppm
Concentration per Run 2	0.0497 ppm	2.0348 ppm	0.1137 ppm	0.9447 ppm	2.0010 ppm	0.0512 ppm	9.6284 ppm
Concentration per Run 3	0.0500 ppm	2.0243 ppm	0.1137 ppm	0.9429 ppm	1.9752 ppm	0.0508 ppm	9.6264 ppm
Concentration RSD	0.3 %	0.6 %	0.7 %	0.2 %	0.7 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0519 ppm	0.4998 ppm	0.1969 ppm	0.2512 ppm	1.0328 ppm	9.7513 ppm	0.0017 ppm
Concentration per Run 1	0.0520 ppm	0.5010 ppm	0.1966 ppm	0.2501 ppm	1.0333 ppm	9.7620 ppm	0.0018 ppm
Concentration per Run 2	0.0515 ppm	0.4989 ppm	0.1963 ppm	0.2515 ppm	1.0352 ppm	9.7835 ppm	0.0025 ppm
Concentration per Run 3	0.0520 ppm	0.4994 ppm	0.1977 ppm	0.2521 ppm	1.0300 ppm	9.7084 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.2 %	0.4 %	0.4 %	0.3 %	0.4 %	49.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6258 ppm	0.4867 ppm	0.9774 ppm	9.7961 ppm	0.4931 ppm	0.5236 ppm	0.4961 ppm
Concentration per Run 1	9.5672 ppm	0.4907 ppm	0.9630 ppm	9.8180 ppm	0.4903 ppm	0.5274 ppm	0.4908 ppm
Concentration per Run 2	9.5889 ppm	0.4870 ppm	0.9794 ppm	9.7968 ppm	0.4949 ppm	0.5231 ppm	0.4994 ppm
Concentration per Run 3	9.7212 ppm	0.4823 ppm	0.9898 ppm	9.7736 ppm	0.4940 ppm	0.5203 ppm	0.4980 ppm
Concentration RSD	0.9 %	0.9 %	1.4 %	0.2 %	0.5 %	0.7 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1126 ppm	0.9376 ppm	0.9727 ppm	0.9230 ppm	0.9796 ppm	0.1160 ppm	0.5005 ppm
Concentration per Run 1	0.1135 ppm	0.9307 ppm	0.9666 ppm	0.9215 ppm	0.9748 ppm	0.1166 ppm	0.4979 ppm
Concentration per Run 2	0.1113 ppm	0.9339 ppm	0.9710 ppm	0.9298 ppm	0.9755 ppm	0.1150 ppm	0.5003 ppm
Concentration per Run 3	0.1130 ppm	0.9482 ppm	0.9804 ppm	0.9176 ppm	0.9883 ppm	0.1162 ppm	0.5032 ppm
Concentration RSD	1.0 %	1.0 %	0.7 %	0.7 %	0.8 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4897 ppm	100.2929 %	98.8351 %	99.0587 %	99.3831 %	97.8770 %	101.5396 %
Concentration per Run 1	0.4861 ppm	101.0804 %	97.9195 %	98.9229 %	99.8521 %	97.1493 %	101.7228 %
Concentration per Run 2	0.4899 ppm	100.2646 %	99.4698 %	98.3759 %	99.7256 %	98.6654 %	100.6100 %
Concentration per Run 3	0.4932 ppm	99.5337 %	99.1160 %	99.8772 %	98.5715 %	97.8164 %	102.2860 %
Concentration RSD	0.7 %	0.8 %	0.8 %	0.8 %	0.7 %	0.8 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433008-04d2 WG1935652
Analysis started at: 6/18/2024 10:53:26 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	135.6226 ppm	0.0768 ppm	0.0007 ppm	0.4723 ppm	0.0049 ppm	19.2781 ppm
Concentration per Run 1	0.0058 ppm	135.2481 ppm	0.0766 ppm	0.0008 ppm	0.4693 ppm	0.0048 ppm	19.3908 ppm
Concentration per Run 2	0.0056 ppm	135.2848 ppm	0.0756 ppm	0.0023 ppm	0.4721 ppm	0.0049 ppm	19.2252 ppm
Concentration per Run 3	0.0043 ppm	136.3350 ppm	0.0783 ppm	-0.0010 ppm	0.4754 ppm	0.0050 ppm	19.2183 ppm
Concentration RSD	15.6 %	0.5 %	1.8 %	239.0 %	0.6 %	1.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0060 ppm	0.0946 ppm	0.2466 ppm	0.2514 ppm	203.4412 ppm	10.6312 ppm	0.1821 ppm
Concentration per Run 1	-0.0059 ppm	0.0951 ppm	0.2462 ppm	0.2502 ppm	202.6448 ppm	10.5362 ppm	0.1819 ppm
Concentration per Run 2	-0.0061 ppm	0.0944 ppm	0.2485 ppm	0.2528 ppm	203.7203 ppm	10.6557 ppm	0.1822 ppm
Concentration per Run 3	-0.0060 ppm	0.0945 ppm	0.2451 ppm	0.2513 ppm	203.9584 ppm	10.7018 ppm	0.1822 ppm
Concentration RSD	1.8 %	0.4 %	0.7 %	0.5 %	0.3 %	0.8 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.4102 ppm	5.1353 ppm	0.0064 ppm	1.2279 ppm	0.2285 ppm	0.1954 ppm	-0.0106 ppm
Concentration per Run 1	54.3558 ppm	5.1341 ppm	0.0062 ppm	1.2154 ppm	0.2286 ppm	0.1951 ppm	-0.0112 ppm
Concentration per Run 2	54.6477 ppm	5.1367 ppm	0.0058 ppm	1.2304 ppm	0.2290 ppm	0.1949 ppm	-0.0097 ppm
Concentration per Run 3	54.2270 ppm	5.1352 ppm	0.0071 ppm	1.2377 ppm	0.2279 ppm	0.1961 ppm	-0.0110 ppm
Concentration RSD	0.4 %	0.0 %	9.7 %	0.9 %	0.2 %	0.3 %	7.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0061 ppm	4.6719 ppm	0.0104 ppm	0.1225 ppm	4.2957 ppm	0.0043 ppm	0.2772 ppm
Concentration per Run 1	-0.0095 ppm	4.7433 ppm	0.0101 ppm	0.1217 ppm	4.2941 ppm	0.0041 ppm	0.2757 ppm
Concentration per Run 2	-0.0046 ppm	4.6496 ppm	0.0106 ppm	0.1228 ppm	4.3261 ppm	0.0037 ppm	0.2794 ppm
Concentration per Run 3	-0.0043 ppm	4.6229 ppm	0.0105 ppm	0.1231 ppm	4.2669 ppm	0.0052 ppm	0.2765 ppm
Concentration RSD	47.5 %	1.4 %	2.6 %	0.6 %	0.7 %	17.9 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4901 ppm	102.9235 %	104.4392 %	96.8288 %	121.5951 %	122.9485 %	124.7622 %
Concentration per Run 1	0.4872 ppm	102.8089 %	104.0594 %	96.6447 %	121.8103 %	122.7472 %	124.4730 %
Concentration per Run 2	0.4934 ppm	102.9401 %	104.6526 %	96.8036 %	121.0190 %	122.5494 %	124.3238 %
Concentration per Run 3	0.4898 ppm	103.0215 %	104.6057 %	97.0381 %	121.9559 %	123.5489 %	125.4899 %
Concentration RSD	0.6 %	0.1 %	0.3 %	0.2 %	0.4 %	0.4 %	0.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-3d2 WG1935652
Analysis started at: 6/18/2024 10:56:56 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0513 ppm	141.4552 ppm	0.1799 ppm	0.7997 ppm	2.2506 ppm	0.0515 ppm	28.1325 ppm
Concentration per Run 1	0.0513 ppm	142.0339 ppm	0.1844 ppm	0.7983 ppm	2.2391 ppm	0.0513 ppm	28.2815 ppm
Concentration per Run 2	0.0516 ppm	140.8474 ppm	0.1770 ppm	0.7982 ppm	2.2480 ppm	0.0514 ppm	27.9213 ppm
Concentration per Run 3	0.0509 ppm	141.4842 ppm	0.1784 ppm	0.8026 ppm	2.2646 ppm	0.0518 ppm	28.1948 ppm
Concentration RSD	0.6 %	0.4 %	2.2 %	0.3 %	0.6 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0387 ppm	0.5321 ppm	0.4132 ppm	0.4943 ppm	210.1894 ppm	20.6013 ppm	0.1961 ppm
Concentration per Run 1	0.0387 ppm	0.5308 ppm	0.4128 ppm	0.4906 ppm	209.4578 ppm	20.4212 ppm	0.1959 ppm
Concentration per Run 2	0.0378 ppm	0.5298 ppm	0.4139 ppm	0.4971 ppm	210.2962 ppm	20.5885 ppm	0.1953 ppm
Concentration per Run 3	0.0396 ppm	0.5355 ppm	0.4128 ppm	0.4952 ppm	210.8142 ppm	20.7942 ppm	0.1972 ppm
Concentration RSD	2.3 %	0.6 %	0.2 %	0.7 %	0.3 %	0.9 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.8542 ppm	4.5838 ppm	0.8819 ppm	10.3987 ppm	0.6780 ppm	0.6271 ppm	0.4205 ppm
Concentration per Run 1	67.7561 ppm	4.5981 ppm	0.8689 ppm	10.4578 ppm	0.6785 ppm	0.6285 ppm	0.4214 ppm
Concentration per Run 2	67.7457 ppm	4.5657 ppm	0.8811 ppm	10.4048 ppm	0.6791 ppm	0.6273 ppm	0.4185 ppm
Concentration per Run 3	68.0609 ppm	4.5876 ppm	0.8959 ppm	10.3337 ppm	0.6765 ppm	0.6257 ppm	0.4214 ppm
Concentration RSD	0.3 %	0.4 %	1.5 %	0.6 %	0.2 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0992 ppm	5.2692 ppm	0.8588 ppm	0.9678 ppm	5.1093 ppm	0.1086 ppm	0.7213 ppm
Concentration per Run 1	0.1018 ppm	5.2269 ppm	0.8624 ppm	0.9599 ppm	5.1031 ppm	0.1098 ppm	0.7191 ppm
Concentration per Run 2	0.0991 ppm	5.2761 ppm	0.8575 ppm	0.9716 ppm	5.1024 ppm	0.1070 ppm	0.7216 ppm
Concentration per Run 3	0.0967 ppm	5.3045 ppm	0.8566 ppm	0.9721 ppm	5.1223 ppm	0.1091 ppm	0.7230 ppm
Concentration RSD	2.6 %	0.7 %	0.4 %	0.7 %	0.2 %	1.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9486 ppm	102.7944 %	103.3783 %	95.0078 %	121.5450 %	122.7607 %	123.2626 %
Concentration per Run 1	0.9499 ppm	102.5175 %	103.1630 %	94.5803 %	121.1068 %	122.9121 %	122.6570 %
Concentration per Run 2	0.9490 ppm	102.5116 %	105.0738 %	94.5045 %	121.2761 %	124.2644 %	123.0198 %
Concentration per Run 3	0.9469 ppm	103.3542 %	101.8980 %	95.9385 %	122.2522 %	121.1056 %	124.1110 %
Concentration RSD	0.2 %	0.5 %	1.5 %	0.8 %	0.5 %	1.3 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-4d2 WG1935652
Analysis started at: 6/18/2024 11:00:27 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0052 ppm	142.0166 ppm	0.0721 ppm	0.0371 ppm	0.4769 ppm	0.0047 ppm	21.1706 ppm
Concentration per Run 1	0.0051 ppm	141.6714 ppm	0.0731 ppm	0.0366 ppm	0.4756 ppm	0.0047 ppm	21.1025 ppm
Concentration per Run 2	0.0051 ppm	141.6292 ppm	0.0711 ppm	0.0391 ppm	0.4766 ppm	0.0047 ppm	21.1736 ppm
Concentration per Run 3	0.0054 ppm	142.7491 ppm	0.0722 ppm	0.0356 ppm	0.4783 ppm	0.0047 ppm	21.2357 ppm
Concentration RSD	3.6 %	0.4 %	1.4 %	4.9 %	0.3 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0060 ppm	0.0923 ppm	0.2463 ppm	0.2598 ppm	205.5947 ppm	11.7601 ppm	0.1919 ppm
Concentration per Run 1	-0.0063 ppm	0.0922 ppm	0.2474 ppm	0.2595 ppm	205.4766 ppm	11.7058 ppm	0.1925 ppm
Concentration per Run 2	-0.0060 ppm	0.0921 ppm	0.2487 ppm	0.2614 ppm	205.1873 ppm	11.8146 ppm	0.1911 ppm
Concentration per Run 3	-0.0058 ppm	0.0924 ppm	0.2429 ppm	0.2585 ppm	206.1203 ppm	11.7600 ppm	0.1919 ppm
Concentration RSD	3.5 %	0.1 %	1.2 %	0.6 %	0.2 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.5604 ppm	4.5567 ppm	0.0049 ppm	1.3240 ppm	0.2371 ppm	0.1940 ppm	-0.0057 ppm
Concentration per Run 1	58.7378 ppm	4.5635 ppm	0.0053 ppm	1.3097 ppm	0.2395 ppm	0.1935 ppm	-0.0048 ppm
Concentration per Run 2	58.8774 ppm	4.5342 ppm	0.0048 ppm	1.3326 ppm	0.2402 ppm	0.1949 ppm	-0.0047 ppm
Concentration per Run 3	58.0660 ppm	4.5725 ppm	0.0047 ppm	1.3297 ppm	0.2316 ppm	0.1936 ppm	-0.0075 ppm
Concentration RSD	0.7 %	0.4 %	6.8 %	0.9 %	2.0 %	0.4 %	27.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0061 ppm	6.2447 ppm	0.0102 ppm	0.1326 ppm	4.7037 ppm	0.0049 ppm	0.2810 ppm
Concentration per Run 1	-0.0035 ppm	6.3574 ppm	0.0102 ppm	0.1325 ppm	4.7113 ppm	0.0049 ppm	0.2813 ppm
Concentration per Run 2	-0.0086 ppm	6.2032 ppm	0.0100 ppm	0.1328 ppm	4.7430 ppm	0.0043 ppm	0.2827 ppm
Concentration per Run 3	-0.0062 ppm	6.1735 ppm	0.0106 ppm	0.1326 ppm	4.6567 ppm	0.0056 ppm	0.2789 ppm
Concentration RSD	42.2 %	1.6 %	2.7 %	0.1 %	0.9 %	13.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5120 ppm	101.8728 %	103.1911 %	94.4670 %	120.9675 %	121.8031 %	122.4411 %
Concentration per Run 1	0.5144 ppm	101.7716 %	103.5335 %	94.4447 %	121.0271 %	121.8880 %	122.3574 %
Concentration per Run 2	0.5171 ppm	101.6811 %	103.0272 %	94.4714 %	120.6585 %	121.7156 %	122.3885 %
Concentration per Run 3	0.5046 ppm	102.1659 %	103.0126 %	94.4850 %	121.2169 %	121.8058 %	122.5774 %
Concentration RSD	1.3 %	0.3 %	0.3 %	0.0 %	0.2 %	0.1 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-5d2 WG1935652
Analysis started at: 6/18/2024 11:03:58 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0500 ppm	133.5684 ppm	0.1885 ppm	0.8767 ppm	2.2529 ppm	0.0509 ppm	27.7718 ppm
Concentration per Run 1	0.0505 ppm	133.3086 ppm	0.1889 ppm	0.8805 ppm	2.2531 ppm	0.0508 ppm	27.7570 ppm
Concentration per Run 2	0.0497 ppm	134.1840 ppm	0.1838 ppm	0.8709 ppm	2.2597 ppm	0.0511 ppm	27.8922 ppm
Concentration per Run 3	0.0498 ppm	133.2126 ppm	0.1929 ppm	0.8786 ppm	2.2459 ppm	0.0507 ppm	27.6663 ppm
Concentration RSD	0.9 %	0.4 %	2.4 %	0.6 %	0.3 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0411 ppm	0.5242 ppm	0.4124 ppm	0.4754 ppm	197.7827 ppm	19.9625 ppm	0.1756 ppm
Concentration per Run 1	0.0413 ppm	0.5272 ppm	0.4150 ppm	0.4787 ppm	197.5449 ppm	19.8897 ppm	0.1772 ppm
Concentration per Run 2	0.0405 ppm	0.5200 ppm	0.4117 ppm	0.4715 ppm	198.4844 ppm	20.0514 ppm	0.1763 ppm
Concentration per Run 3	0.0417 ppm	0.5254 ppm	0.4104 ppm	0.4760 ppm	197.3189 ppm	19.9465 ppm	0.1734 ppm
Concentration RSD	1.4 %	0.7 %	0.6 %	0.8 %	0.3 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.1654 ppm	5.4324 ppm	0.9092 ppm	10.6545 ppm	0.6547 ppm	0.6921 ppm	0.4353 ppm
Concentration per Run 1	61.4063 ppm	5.4235 ppm	0.8998 ppm	10.6727 ppm	0.6604 ppm	0.6840 ppm	0.4418 ppm
Concentration per Run 2	60.9017 ppm	5.4601 ppm	0.9031 ppm	10.6493 ppm	0.6524 ppm	0.6947 ppm	0.4287 ppm
Concentration per Run 3	61.1884 ppm	5.4135 ppm	0.9246 ppm	10.6416 ppm	0.6511 ppm	0.6975 ppm	0.4353 ppm
Concentration RSD	0.4 %	0.5 %	1.5 %	0.2 %	0.8 %	1.0 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1083 ppm	5.6802 ppm	0.9109 ppm	1.0102 ppm	5.0692 ppm	0.1158 ppm	0.7174 ppm
Concentration per Run 1	0.1096 ppm	5.6665 ppm	0.9174 ppm	1.0087 ppm	5.1009 ppm	0.1128 ppm	0.7219 ppm
Concentration per Run 2	0.1065 ppm	5.7356 ppm	0.9040 ppm	1.0111 ppm	5.0613 ppm	0.1172 ppm	0.7131 ppm
Concentration per Run 3	0.1086 ppm	5.6384 ppm	0.9112 ppm	1.0106 ppm	5.0453 ppm	0.1176 ppm	0.7173 ppm
Concentration RSD	1.5 %	0.9 %	0.7 %	0.1 %	0.6 %	2.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9110 ppm	102.4522 %	103.8144 %	93.7368 %	120.5735 %	121.5140 %	120.8410 %
Concentration per Run 1	0.9189 ppm	101.0980 %	103.9500 %	94.4452 %	119.0180 %	121.7456 %	121.2416 %
Concentration per Run 2	0.9069 ppm	103.2167 %	103.2612 %	94.4848 %	121.4269 %	120.9113 %	122.1259 %
Concentration per Run 3	0.9073 ppm	103.0420 %	104.2320 %	92.2805 %	121.2757 %	121.8852 %	119.1554 %
Concentration RSD	0.7 %	1.1 %	0.5 %	1.3 %	1.1 %	0.4 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: WG1935652-6d10 WG1935652
Analysis started at: 6/18/2024 11:07:29 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	27.3114 ppm	0.0131 ppm	0.0007 ppm	0.0961 ppm	0.0010 ppm	3.9042 ppm
Concentration per Run 1	0.0010 ppm	26.8445 ppm	0.0132 ppm	0.0019 ppm	0.0956 ppm	0.0010 ppm	3.8876 ppm
Concentration per Run 2	0.0010 ppm	27.8933 ppm	0.0127 ppm	0.0008 ppm	0.0964 ppm	0.0010 ppm	3.9166 ppm
Concentration per Run 3	0.0006 ppm	27.1963 ppm	0.0135 ppm	-0.0005 ppm	0.0965 ppm	0.0010 ppm	3.9086 ppm
Concentration RSD	29.3 %	2.0 %	3.0 %	170.7 %	0.5 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0014 ppm	0.0193 ppm	0.0505 ppm	0.0510 ppm	42.9321 ppm	2.0993 ppm	0.0382 ppm
Concentration per Run 1	-0.0015 ppm	0.0187 ppm	0.0505 ppm	0.0506 ppm	42.3924 ppm	2.0997 ppm	0.0387 ppm
Concentration per Run 2	-0.0014 ppm	0.0197 ppm	0.0502 ppm	0.0509 ppm	43.4590 ppm	2.1143 ppm	0.0375 ppm
Concentration per Run 3	-0.0014 ppm	0.0195 ppm	0.0508 ppm	0.0515 ppm	42.9448 ppm	2.0838 ppm	0.0382 ppm
Concentration RSD	3.4 %	2.9 %	0.6 %	0.9 %	1.2 %	0.7 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.1323 ppm	1.0631 ppm	0.0036 ppm	0.2702 ppm	0.0485 ppm	0.0392 ppm	-0.0062 ppm
Concentration per Run 1	11.1302 ppm	1.0558 ppm	0.0037 ppm	0.2664 ppm	0.0493 ppm	0.0392 ppm	-0.0055 ppm
Concentration per Run 2	11.0285 ppm	1.0658 ppm	0.0038 ppm	0.2712 ppm	0.0484 ppm	0.0397 ppm	-0.0049 ppm
Concentration per Run 3	11.2383 ppm	1.0677 ppm	0.0033 ppm	0.2729 ppm	0.0478 ppm	0.0386 ppm	-0.0081 ppm
Concentration RSD	0.9 %	0.6 %	7.7 %	1.2 %	1.6 %	1.4 %	27.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	1.0573 ppm	0.0054 ppm	0.0243 ppm	0.8708 ppm	0.0007 ppm	0.0554 ppm
Concentration per Run 1	-0.0018 ppm	1.0577 ppm	0.0067 ppm	0.0241 ppm	0.8703 ppm	0.0002 ppm	0.0553 ppm
Concentration per Run 2	-0.0002 ppm	1.0612 ppm	0.0052 ppm	0.0246 ppm	0.8704 ppm	0.0017 ppm	0.0551 ppm
Concentration per Run 3	-0.0005 ppm	1.0528 ppm	0.0043 ppm	0.0244 ppm	0.8717 ppm	0.0002 ppm	0.0558 ppm
Concentration RSD	97.6 %	0.4 %	22.6 %	1.0 %	0.1 %	131.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1014 ppm	102.8560 %	101.3447 %	99.8035 %	106.2319 %	103.6189 %	106.5582 %
Concentration per Run 1	0.1021 ppm	103.3191 %	101.0413 %	100.1234 %	106.4018 %	103.0937 %	107.0002 %
Concentration per Run 2	0.0997 ppm	103.7480 %	100.7532 %	100.2251 %	107.6360 %	103.4887 %	106.8190 %
Concentration per Run 3	0.1024 ppm	101.5010 %	102.2396 %	99.0619 %	104.6578 %	104.2744 %	105.8555 %
Concentration RSD	1.4 %	1.2 %	0.8 %	0.6 %	1.4 %	0.6 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432919-01d2 WG1935652
Analysis started at: 6/18/2024 11:10:59 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0061 ppm	131.0736 ppm	0.0696 ppm	0.0653 ppm	1.6783 ppm	0.0161 ppm	734.6714 ppm
Concentration per Run 1	0.0059 ppm	131.4559 ppm	0.0731 ppm	0.0640 ppm	1.6867 ppm	0.0162 ppm	737.3214 ppm
Concentration per Run 2	0.0068 ppm	130.9871 ppm	0.0676 ppm	0.0662 ppm	1.6653 ppm	0.0160 ppm	733.8236 ppm
Concentration per Run 3	0.0056 ppm	130.7777 ppm	0.0680 ppm	0.0658 ppm	1.6830 ppm	0.0161 ppm	732.8690 ppm
Concentration RSD	9.8 %	0.3 %	4.4 %	1.8 %	0.7 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0041 ppm	0.0923 ppm	0.1191 ppm	0.1778 ppm	242.4190 ppm	7.2296 ppm	0.1359 ppm
Concentration per Run 1	-0.0042 ppm	0.0920 ppm	0.1181 ppm	0.1750 ppm	243.5740 ppm	7.2758 ppm	0.1384 ppm
Concentration per Run 2	-0.0041 ppm	0.0926 ppm	0.1201 ppm	0.1798 ppm	240.6091 ppm	7.1863 ppm	0.1328 ppm
Concentration per Run 3	-0.0041 ppm	0.0922 ppm	0.1191 ppm	0.1786 ppm	243.0739 ppm	7.2268 ppm	0.1364 ppm
Concentration RSD	1.3 %	0.3 %	0.8 %	1.4 %	0.7 %	0.6 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	191.3690 ppm	12.5362 ppm	0.0039 ppm	2.3366 ppm	0.1237 ppm	0.6589 ppm	-0.0070 ppm
Concentration per Run 1	190.0387 ppm	12.5872 ppm	0.0042 ppm	2.3515 ppm	0.1232 ppm	0.6724 ppm	-0.0084 ppm
Concentration per Run 2	192.4275 ppm	12.4920 ppm	0.0038 ppm	2.3272 ppm	0.1248 ppm	0.6567 ppm	-0.0102 ppm
Concentration per Run 3	191.6408 ppm	12.5293 ppm	0.0036 ppm	2.3311 ppm	0.1231 ppm	0.6476 ppm	-0.0026 ppm
Concentration RSD	0.6 %	0.4 %	6.6 %	0.6 %	0.8 %	1.9 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0328 ppm	17.3100 ppm	0.0091 ppm	1.4446 ppm	1.9907 ppm	0.0036 ppm	0.2125 ppm
Concentration per Run 1	-0.0313 ppm	17.1481 ppm	0.0073 ppm	1.4536 ppm	1.9762 ppm	0.0017 ppm	0.2111 ppm
Concentration per Run 2	-0.0342 ppm	17.5074 ppm	0.0108 ppm	1.4352 ppm	2.0050 ppm	0.0045 ppm	0.2131 ppm
Concentration per Run 3	-0.0329 ppm	17.2746 ppm	0.0092 ppm	1.4450 ppm	1.9909 ppm	0.0046 ppm	0.2132 ppm
Concentration RSD	4.4 %	1.1 %	19.2 %	0.6 %	0.7 %	45.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7736 ppm	93.3078 %	104.3255 %	80.9172 %	147.9483 %	164.9070 %	152.0575 %
Concentration per Run 1	1.7622 ppm	93.5805 %	103.8049 %	79.5003 %	147.5234 %	164.4056 %	150.0596 %
Concentration per Run 2	1.7857 ppm	92.4612 %	106.0091 %	81.2763 %	147.0632 %	168.0687 %	152.7946 %
Concentration per Run 3	1.7730 ppm	93.8818 %	103.1626 %	81.9748 %	149.2584 %	162.2466 %	153.3184 %
Concentration RSD	0.7 %	0.8 %	1.4 %	1.6 %	0.8 %	1.8 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: eL2432919-02d2 WG1935652
Analysis started at: 6/18/2024 11:14:29 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0109 ppm	53.5884 ppm	0.0643 ppm	0.0018 ppm	0.3438 ppm	0.0115 ppm	3.2717 ppm
Concentration per Run 1	0.0111 ppm	53.3395 ppm	0.0665 ppm	0.0005 ppm	0.3415 ppm	0.0116 ppm	3.2647 ppm
Concentration per Run 2	0.0105 ppm	53.7994 ppm	0.0623 ppm	0.0047 ppm	0.3464 ppm	0.0117 ppm	3.2784 ppm
Concentration per Run 3	0.0111 ppm	53.6264 ppm	0.0640 ppm	0.0001 ppm	0.3435 ppm	0.0114 ppm	3.2719 ppm
Concentration RSD	2.9 %	0.4 %	3.2 %	141.4 %	0.7 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0208 ppm	0.0911 ppm	0.3136 ppm	0.1726 ppm	**660.6216 ppm**	6.9932 ppm	0.0553 ppm
Concentration per Run 1	-0.0200 ppm	0.0922 ppm	0.3113 ppm	0.1725 ppm	659.0766 ppm	6.9774 ppm	0.0560 ppm
Concentration per Run 2	-0.0210 ppm	0.0903 ppm	0.3168 ppm	0.1733 ppm	666.4185 ppm	7.0135 ppm	0.0553 ppm
Concentration per Run 3	-0.0215 ppm	0.0908 ppm	0.3126 ppm	0.1719 ppm	656.3697 ppm	6.9886 ppm	0.0546 ppm
Concentration RSD	3.6 %	1.1 %	0.9 %	0.4 %	0.8 %	0.3 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2940 ppm	4.1748 ppm	0.0108 ppm	0.2235 ppm	0.1050 ppm	0.0618 ppm	-0.0134 ppm
Concentration per Run 1	11.2773 ppm	4.1560 ppm	0.0108 ppm	0.2236 ppm	0.1046 ppm	0.0633 ppm	-0.0142 ppm
Concentration per Run 2	11.3134 ppm	4.2032 ppm	0.0105 ppm	0.2252 ppm	0.1052 ppm	0.0599 ppm	-0.0098 ppm
Concentration per Run 3	11.2912 ppm	4.1651 ppm	0.0111 ppm	0.2218 ppm	0.1053 ppm	0.0621 ppm	-0.0161 ppm
Concentration RSD	0.2 %	0.6 %	2.7 %	0.7 %	0.4 %	2.8 %	24.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0084 ppm	3.8037 ppm	0.0141 ppm	0.0256 ppm	5.6762 ppm	0.0076 ppm	0.7886 ppm
Concentration per Run 1	-0.0102 ppm	3.8581 ppm	0.0135 ppm	0.0257 ppm	5.6549 ppm	0.0068 ppm	0.7870 ppm
Concentration per Run 2	-0.0057 ppm	3.8167 ppm	0.0153 ppm	0.0256 ppm	5.6980 ppm	0.0073 ppm	0.7892 ppm
Concentration per Run 3	-0.0091 ppm	3.7365 ppm	0.0136 ppm	0.0254 ppm	5.6757 ppm	0.0087 ppm	0.7895 ppm
Concentration RSD	27.9 %	1.6 %	7.3 %	0.7 %	0.4 %	12.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4473 ppm	103.7111 %	105.0881 %	91.8805 %	**158.6957 %**	**160.3497 %**	**159.7840 %**
Concentration per Run 1	0.4451 ppm	105.4150 %	104.7278 %	91.7885 %	**160.8127 %**	**159.5699 %**	**159.4971 %**
Concentration per Run 2	0.4522 ppm	102.3222 %	105.1753 %	93.1702 %	**156.5055 %**	**160.4213 %**	**161.2875 %**
Concentration per Run 3	0.4447 ppm	103.3961 %	105.3612 %	90.6827 %	**158.7689 %**	**161.0578 %**	**158.5673 %**
Concentration RSD	1.0 %	1.5 %	0.3 %	1.4 %	**1.4 %**	**0.5 %**	**0.9 %**

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: eL2432919-03d2 WG1935652
Analysis started at: 6/18/2024 11:18:00 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0167 ppm	98.8423 ppm	0.1249 ppm	0.0017 ppm	0.1340 ppm	0.0182 ppm	2.2283 ppm
Concentration per Run 1	0.0164 ppm	98.3051 ppm	0.1232 ppm	0.0002 ppm	0.1338 ppm	0.0182 ppm	2.2271 ppm
Concentration per Run 2	0.0168 ppm	98.8975 ppm	0.1275 ppm	0.0022 ppm	0.1340 ppm	0.0182 ppm	2.2270 ppm
Concentration per Run 3	0.0168 ppm	99.3243 ppm	0.1238 ppm	0.0028 ppm	0.1341 ppm	0.0181 ppm	2.2308 ppm
Concentration RSD	1.4 %	0.5 %	1.9 %	77.7 %	0.1 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0200 ppm	0.2695 ppm	0.1302 ppm	0.2630 ppm	**663.3534 ppm**	3.6283 ppm	0.0504 ppm
Concentration per Run 1	-0.0199 ppm	0.2734 ppm	0.1305 ppm	0.2640 ppm	663.7329 ppm	3.6329 ppm	0.0513 ppm
Concentration per Run 2	-0.0203 ppm	0.2692 ppm	0.1304 ppm	0.2631 ppm	662.4979 ppm	3.6374 ppm	0.0491 ppm
Concentration per Run 3	-0.0200 ppm	0.2659 ppm	0.1296 ppm	0.2619 ppm	663.8295 ppm	3.6146 ppm	0.0507 ppm
Concentration RSD	1.0 %	1.4 %	0.4 %	0.4 %	0.1 %	0.3 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3977 ppm	1.4128 ppm	0.0077 ppm	0.4282 ppm	0.2804 ppm	0.0805 ppm	-0.0100 ppm
Concentration per Run 1	5.4221 ppm	1.4066 ppm	0.0076 ppm	0.4237 ppm	0.2840 ppm	0.0804 ppm	-0.0096 ppm
Concentration per Run 2	5.4041 ppm	1.4104 ppm	0.0072 ppm	0.4284 ppm	0.2799 ppm	0.0800 ppm	-0.0106 ppm
Concentration per Run 3	5.3668 ppm	1.4215 ppm	0.0082 ppm	0.4324 ppm	0.2773 ppm	0.0812 ppm	-0.0098 ppm
Concentration RSD	0.5 %	0.5 %	6.6 %	1.0 %	1.2 %	0.8 %	5.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0077 ppm	5.5916 ppm	0.0074 ppm	0.0145 ppm	2.3363 ppm	0.0182 ppm	0.3424 ppm
Concentration per Run 1	-0.0083 ppm	5.6312 ppm	0.0073 ppm	0.0145 ppm	2.3715 ppm	0.0177 ppm	0.3448 ppm
Concentration per Run 2	-0.0086 ppm	5.5970 ppm	0.0081 ppm	0.0146 ppm	2.3195 ppm	0.0173 ppm	0.3430 ppm
Concentration per Run 3	-0.0061 ppm	5.5465 ppm	0.0069 ppm	0.0145 ppm	2.3179 ppm	0.0197 ppm	0.3393 ppm
Concentration RSD	17.9 %	0.8 %	8.2 %	0.5 %	1.3 %	7.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9787 ppm	110.2210 %	111.6955 %	96.4685 %	**193.8484 %**	**197.3924 %**	**196.6126 %**
Concentration per Run 1	0.9869 ppm	109.3275 %	110.1791 %	96.1812 %	**193.1441 %**	**194.5347 %**	**195.7415 %**
Concentration per Run 2	0.9768 ppm	110.2474 %	112.6570 %	96.2804 %	**193.5076 %**	**199.2240 %**	**196.5178 %**
Concentration per Run 3	0.9724 ppm	111.0882 %	112.2503 %	96.9439 %	**194.8933 %**	**198.4186 %**	**197.5784 %**
Concentration RSD	0.8 %	0.8 %	1.2 %	0.4 %	**0.5 %**	**1.3 %**	**0.5 %**

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/18/2024 11:21:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4995 ppm	0.4902 ppm	0.4624 ppm	0.4912 ppm	0.4981 ppm	0.5106 ppm	0.4877 ppm
Concentration per Run 1	0.5051 ppm	0.4812 ppm	0.4607 ppm	0.4993 ppm	0.4997 ppm	0.5132 ppm	0.4891 ppm
Concentration per Run 2	0.4999 ppm	0.4901 ppm	0.4631 ppm	0.4871 ppm	0.4955 ppm	0.5061 ppm	0.4837 ppm
Concentration per Run 3	0.4936 ppm	0.4992 ppm	0.4635 ppm	0.4874 ppm	0.4992 ppm	0.5124 ppm	0.4902 ppm
Recovery Percentage 1	99.904 %	98.034 %	92.489 %	98.250 %	99.630 %	102.113 %	97.533 %
Concentration RSD	1.2 %	1.8 %	0.3 %	1.4 %	0.5 %	0.8 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4867 ppm	0.5024 ppm	0.4886 ppm	0.4935 ppm	0.5448 ppm	5.0504 ppm	0.5014 ppm
Concentration per Run 1	0.4911 ppm	0.5062 ppm	0.4945 ppm	0.4971 ppm	0.5500 ppm	5.0648 ppm	0.5039 ppm
Concentration per Run 2	0.4878 ppm	0.5011 ppm	0.4886 ppm	0.4924 ppm	0.5412 ppm	5.0118 ppm	0.4994 ppm
Concentration per Run 3	0.4813 ppm	0.4999 ppm	0.4828 ppm	0.4910 ppm	0.5432 ppm	5.0747 ppm	0.5009 ppm
Recovery Percentage 1	97.349 %	100.484 %	97.728 %	98.702 %	108.966 %	101.009 %	100.286 %
Concentration RSD	1.0 %	0.7 %	1.2 %	0.6 %	0.8 %	0.7 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4833 ppm	0.4845 ppm	0.4913 ppm	9.8437 ppm	0.5094 ppm	0.4950 ppm	0.4917 ppm
Concentration per Run 1	0.4892 ppm	0.4850 ppm	0.4910 ppm	9.8424 ppm	0.5162 ppm	0.4923 ppm	0.4972 ppm
Concentration per Run 2	0.4818 ppm	0.4828 ppm	0.4897 ppm	9.8135 ppm	0.5080 ppm	0.4953 ppm	0.4949 ppm
Concentration per Run 3	0.4790 ppm	0.4856 ppm	0.4932 ppm	9.8751 ppm	0.5039 ppm	0.4974 ppm	0.4831 ppm
Recovery Percentage 1	96.664 %	96.892 %	98.262 %	98.437 %	101.878 %	98.995 %	98.350 %
Concentration RSD	1.1 %	0.3 %	0.4 %	0.3 %	1.2 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4844 ppm	5.5642 ppm	0.5205 ppm	0.4996 ppm	0.5040 ppm	0.4896 ppm	0.4871 ppm
Concentration per Run 1	0.4842 ppm	5.6109 ppm	0.5276 ppm	0.5024 ppm	0.5103 ppm	0.4855 ppm	0.4911 ppm
Concentration per Run 2	0.4861 ppm	5.5685 ppm	0.5181 ppm	0.4950 ppm	0.5032 ppm	0.4927 ppm	0.4845 ppm
Concentration per Run 3	0.4829 ppm	5.5132 ppm	0.5158 ppm	0.5014 ppm	0.4986 ppm	0.4906 ppm	0.4858 ppm
Recovery Percentage 1	96.886 %	105.985 %	104.101 %	99.922 %	100.809 %	97.921 %	97.425 %
Concentration RSD	0.3 %	0.9 %	1.2 %	0.8 %	1.2 %	0.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5044 ppm	101.6522 %	99.2700 %	100.7912 %	101.4123 %	97.9308 %	102.4187 %
Concentration per Run 1	0.5112 ppm	100.6419 %	98.8334 %	100.9557 %	100.1285 %	97.6719 %	102.6321 %
Concentration per Run 2	0.5004 ppm	102.4103 %	99.4226 %	100.3743 %	102.1555 %	97.9209 %	102.3913 %
Concentration per Run 3	0.5015 ppm	101.9044 %	99.5541 %	101.0436 %	101.9530 %	98.1996 %	102.2327 %
Recovery Percentage 1	100.876 %						
Concentration RSD	1.2 %	0.9 %	0.4 %	0.4 %	1.1 %	0.3 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:25:00 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0017 ppm	-0.0002 ppm	-0.0013 ppm	0.0004 ppm	0.0001 ppm	-0.0033 ppm
Concentration per Run 1	-0.0004 ppm	-0.0020 ppm	-0.0024 ppm	-0.0021 ppm	0.0004 ppm	0.0001 ppm	-0.0025 ppm
Concentration per Run 2	-0.0006 ppm	-0.0009 ppm	0.0026 ppm	-0.0012 ppm	0.0003 ppm	0.0000 ppm	-0.0057 ppm
Concentration per Run 3	0.0003 ppm	-0.0021 ppm	-0.0009 ppm	-0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0017 ppm
Recovery Percentage 1	-3.167 %	-1.655 %	-4.922 %	-4.193 %	4.042 %	2.084 %	-3.281 %
Concentration RSD	192.2 %	41.3 %	1,034.8 %	66.0 %	26.7 %	56.9 %	65.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0055 ppm	-0.0639 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	-0.0008 ppm	0.0005 ppm	0.0005 ppm	0.0057 ppm	-0.0577 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0042 ppm	-0.0836 ppm	0.0035 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0007 ppm	0.0066 ppm	-0.0504 ppm	0.0007 ppm
Recovery Percentage 1	3.146 %	-0.864 %	4.906 %	5.685 %	10.970 %	-2.557 %	35.931 %
Concentration RSD	50.0 %	353.0 %	37.2 %	27.4 %	22.0 %	27.2 %	83.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0021 ppm	0.0000 ppm	0.0017 ppm	-0.0147 ppm	0.0005 ppm	0.0001 ppm	-0.0039 ppm
Concentration per Run 1	-0.0038 ppm	-0.0001 ppm	0.0018 ppm	-0.0162 ppm	0.0004 ppm	0.0008 ppm	-0.0012 ppm
Concentration per Run 2	-0.0015 ppm	0.0002 ppm	0.0015 ppm	-0.0115 ppm	0.0006 ppm	-0.0005 ppm	-0.0047 ppm
Concentration per Run 3	-0.0010 ppm	-0.0002 ppm	0.0016 ppm	-0.0164 ppm	0.0005 ppm	0.0001 ppm	-0.0058 ppm
Recovery Percentage 1	-2.077 %	-0.028 %	3.312 %	-0.734 %	1.938 %	1.336 %	-7.796 %
Concentration RSD	72.6 %	7,656.5 %	9.5 %	18.7 %	23.2 %	493.7 %	61.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	-0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0008 ppm	0.0009 ppm	0.0012 ppm	-0.0001 ppm	0.0011 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	-0.0005 ppm	-0.0009 ppm	0.0000 ppm	0.0008 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0043 ppm	-0.0009 ppm	0.0020 ppm	-0.0001 ppm	0.0014 ppm	-0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	21.181 %	-0.035 %	1.545 %	-0.579 %	11.326 %	0.295 %	-0.189 %
Concentration RSD	88.3 %	560.6 %	193.7 %	106.7 %	25.6 %	1,870.1 %	430.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	101.7527 %	96.9978 %	101.3598 %	102.9615 %	96.8290 %	102.8412 %
Concentration per Run 1	0.0005 ppm	103.2385 %	96.2617 %	100.9735 %	104.8642 %	96.8503 %	102.5999 %
Concentration per Run 2	0.0003 ppm	101.3636 %	97.1868 %	101.6309 %	102.2843 %	97.1417 %	103.1838 %
Concentration per Run 3	0.0002 ppm	100.6559 %	97.5449 %	101.4750 %	101.7360 %	96.4951 %	102.7397 %
Recovery Percentage 1	7.081 %						
Concentration RSD	44.3 %	1.3 %	0.7 %	0.3 %	1.6 %	0.3 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432919-04d2 WG1935652
Analysis started at: 6/18/2024 11:28:30 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0060 ppm	118.6029 ppm	0.0426 ppm	0.0018 ppm	0.5043 ppm	0.0101 ppm	7.2464 ppm
Concentration per Run 1	0.0062 ppm	119.4452 ppm	0.0437 ppm	0.0032 ppm	0.5085 ppm	0.0101 ppm	7.2694 ppm
Concentration per Run 2	0.0058 ppm	118.3222 ppm	0.0429 ppm	0.0014 ppm	0.5012 ppm	0.0100 ppm	7.2270 ppm
Concentration per Run 3	0.0061 ppm	118.0414 ppm	0.0412 ppm	0.0008 ppm	0.5030 ppm	0.0100 ppm	7.2429 ppm
Concentration RSD	3.6 %	0.6 %	2.9 %	70.9 %	0.7 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0086 ppm	0.0988 ppm	0.1235 ppm	0.1457 ppm	269.5518 ppm	11.2766 ppm	0.1143 ppm
Concentration per Run 1	-0.0086 ppm	0.0985 ppm	0.1225 ppm	0.1460 ppm	270.6190 ppm	11.3170 ppm	0.1150 ppm
Concentration per Run 2	-0.0085 ppm	0.0981 ppm	0.1236 ppm	0.1457 ppm	268.1748 ppm	11.2556 ppm	0.1145 ppm
Concentration per Run 3	-0.0087 ppm	0.0998 ppm	0.1244 ppm	0.1455 ppm	269.8615 ppm	11.2571 ppm	0.1133 ppm
Concentration RSD	1.6 %	0.9 %	0.8 %	0.2 %	0.5 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8245 ppm	4.1100 ppm	0.0063 ppm	0.1009 ppm	0.0776 ppm	0.0522 ppm	-0.0081 ppm
Concentration per Run 1	17.7177 ppm	4.1241 ppm	0.0059 ppm	0.1096 ppm	0.0768 ppm	0.0516 ppm	-0.0093 ppm
Concentration per Run 2	17.8368 ppm	4.0987 ppm	0.0065 ppm	0.0938 ppm	0.0777 ppm	0.0505 ppm	-0.0069 ppm
Concentration per Run 3	17.9188 ppm	4.1071 ppm	0.0065 ppm	0.0992 ppm	0.0784 ppm	0.0545 ppm	-0.0081 ppm
Concentration RSD	0.6 %	0.3 %	5.4 %	8.0 %	1.1 %	4.0 %	15.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0057 ppm	3.1763 ppm	0.0074 ppm	0.0518 ppm	2.0965 ppm	0.0046 ppm	0.3038 ppm
Concentration per Run 1	-0.0049 ppm	3.1293 ppm	0.0082 ppm	0.0522 ppm	2.0897 ppm	0.0050 ppm	0.3033 ppm
Concentration per Run 2	-0.0054 ppm	3.2286 ppm	0.0078 ppm	0.0516 ppm	2.0939 ppm	0.0046 ppm	0.3039 ppm
Concentration per Run 3	-0.0069 ppm	3.1708 ppm	0.0061 ppm	0.0517 ppm	2.1058 ppm	0.0042 ppm	0.3042 ppm
Concentration RSD	18.9 %	1.6 %	15.0 %	0.7 %	0.4 %	7.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4150 ppm	106.5852 %	107.0798 %	98.9394 %	**155.8228 %**	**156.7559 %**	**159.2998 %**
Concentration per Run 1	0.4135 ppm	107.6283 %	107.7373 %	99.2229 %	**157.3314 %**	**158.2474 %**	**159.4995 %**
Concentration per Run 2	0.4158 ppm	106.1188 %	107.3281 %	99.7697 %	**155.0581 %**	**156.5475 %**	**160.5518 %**
Concentration per Run 3	0.4156 ppm	106.0085 %	106.1740 %	97.8255 %	**155.0788 %**	**155.4729 %**	**157.8483 %**
Concentration RSD	0.3 %	0.8 %	0.8 %	1.0 %	**0.8 %**	**0.9 %**	**0.9 %**

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432929-01d2 WG1935652
Analysis started at: 6/18/2024 11:32:00 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0037 ppm	60.7992 ppm	0.0423 ppm	0.0105 ppm	0.2740 ppm	0.0036 ppm	99.4364 ppm
Concentration per Run 1	0.0040 ppm	61.2354 ppm	0.0433 ppm	0.0108 ppm	0.2767 ppm	0.0037 ppm	100.1040 ppm
Concentration per Run 2	0.0034 ppm	60.4488 ppm	0.0428 ppm	0.0084 ppm	0.2733 ppm	0.0036 ppm	98.9977 ppm
Concentration per Run 3	0.0035 ppm	60.7134 ppm	0.0407 ppm	0.0122 ppm	0.2720 ppm	0.0036 ppm	99.2076 ppm
Concentration RSD	8.4 %	0.7 %	3.4 %	18.3 %	0.9 %	0.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0038 ppm	0.0451 ppm	0.0898 ppm	0.1434 ppm	141.8344 ppm	3.3392 ppm	0.1049 ppm
Concentration per Run 1	-0.0040 ppm	0.0460 ppm	0.0897 ppm	0.1438 ppm	143.2359 ppm	3.4124 ppm	0.1068 ppm
Concentration per Run 2	-0.0037 ppm	0.0451 ppm	0.0908 ppm	0.1445 ppm	141.0598 ppm	3.2965 ppm	0.1044 ppm
Concentration per Run 3	-0.0039 ppm	0.0442 ppm	0.0888 ppm	0.1419 ppm	141.2076 ppm	3.3088 ppm	0.1035 ppm
Concentration RSD	3.8 %	2.0 %	1.1 %	0.9 %	0.9 %	1.9 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.0847 ppm	3.1949 ppm	0.0023 ppm	0.4135 ppm	0.1053 ppm	0.0524 ppm	-0.0055 ppm
Concentration per Run 1	31.0323 ppm	3.2253 ppm	0.0019 ppm	0.4176 ppm	0.1052 ppm	0.0534 ppm	-0.0056 ppm
Concentration per Run 2	31.3022 ppm	3.1796 ppm	0.0025 ppm	0.4092 ppm	0.1063 ppm	0.0514 ppm	-0.0040 ppm
Concentration per Run 3	30.9197 ppm	3.1797 ppm	0.0023 ppm	0.4137 ppm	0.1045 ppm	0.0525 ppm	-0.0069 ppm
Concentration RSD	0.6 %	0.8 %	13.5 %	1.0 %	0.8 %	1.9 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	4.6773 ppm	0.0047 ppm	0.2850 ppm	0.6710 ppm	0.0014 ppm	0.1521 ppm
Concentration per Run 1	-0.0027 ppm	4.7185 ppm	0.0046 ppm	0.2886 ppm	0.6795 ppm	0.0014 ppm	0.1528 ppm
Concentration per Run 2	-0.0044 ppm	4.7470 ppm	0.0052 ppm	0.2835 ppm	0.6735 ppm	0.0021 ppm	0.1524 ppm
Concentration per Run 3	-0.0019 ppm	4.5666 ppm	0.0045 ppm	0.2828 ppm	0.6599 ppm	0.0006 ppm	0.1513 ppm
Concentration RSD	42.5 %	2.1 %	7.7 %	1.1 %	1.5 %	56.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3342 ppm	101.6296 %	105.0109 %	95.5645 %	130.4500 %	134.5755 %	134.2796 %
Concentration per Run 1	0.3339 ppm	101.3128 %	104.0316 %	95.9017 %	130.8281 %	133.5427 %	134.8049 %
Concentration per Run 2	0.3352 ppm	101.4799 %	105.5696 %	95.3877 %	130.0942 %	134.7624 %	134.0034 %
Concentration per Run 3	0.3335 ppm	102.0960 %	105.4315 %	95.4042 %	130.4276 %	135.4213 %	134.0305 %
Concentration RSD	0.3 %	0.4 %	0.8 %	0.3 %	0.3 %	0.7 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432936-01d2 WG1935652
Analysis started at: 6/18/2024 11:35:30 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	88.2628 ppm	0.0087 ppm	0.1006 ppm	0.4136 ppm	0.0029 ppm	852.4511 ppm
Concentration per Run 1	0.0000 ppm	88.2912 ppm	0.0079 ppm	0.0998 ppm	0.4116 ppm	0.0029 ppm	853.0184 ppm
Concentration per Run 2	0.0008 ppm	88.7867 ppm	0.0121 ppm	0.1015 ppm	0.4177 ppm	0.0030 ppm	855.5451 ppm
Concentration per Run 3	0.0011 ppm	87.7106 ppm	0.0061 ppm	0.1004 ppm	0.4115 ppm	0.0029 ppm	848.7899 ppm
Concentration RSD	88.2 %	0.6 %	35.0 %	0.8 %	0.9 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0022 ppm	0.0313 ppm	0.1171 ppm	0.1205 ppm	82.6591 ppm	3.5507 ppm	0.0443 ppm
Concentration per Run 1	-0.0022 ppm	0.0312 ppm	0.1174 ppm	0.1204 ppm	82.6368 ppm	3.5558 ppm	0.0442 ppm
Concentration per Run 2	-0.0021 ppm	0.0319 ppm	0.1177 ppm	0.1213 ppm	82.9464 ppm	3.5551 ppm	0.0437 ppm
Concentration per Run 3	-0.0022 ppm	0.0307 ppm	0.1161 ppm	0.1199 ppm	82.3940 ppm	3.5412 ppm	0.0449 ppm
Concentration RSD	1.9 %	1.9 %	0.8 %	0.6 %	0.3 %	0.2 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	171.6502 ppm	1.7054 ppm	0.0017 ppm	1.7178 ppm	0.0567 ppm	0.0318 ppm	-0.0068 ppm
Concentration per Run 1	171.4848 ppm	1.7006 ppm	0.0020 ppm	1.7214 ppm	0.0563 ppm	0.0323 ppm	-0.0069 ppm
Concentration per Run 2	173.2808 ppm	1.7139 ppm	0.0013 ppm	1.7312 ppm	0.0569 ppm	0.0305 ppm	-0.0065 ppm
Concentration per Run 3	170.1851 ppm	1.7016 ppm	0.0016 ppm	1.7008 ppm	0.0569 ppm	0.0326 ppm	-0.0070 ppm
Concentration RSD	0.9 %	0.4 %	21.9 %	0.9 %	0.7 %	3.5 %	4.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0268 ppm	9.7118 ppm	0.0048 ppm	2.9512 ppm	3.1392 ppm	0.0052 ppm	0.1317 ppm
Concentration per Run 1	-0.0234 ppm	9.6347 ppm	0.0035 ppm	2.9461 ppm	3.1270 ppm	0.0036 ppm	0.1315 ppm
Concentration per Run 2	-0.0264 ppm	9.8203 ppm	0.0058 ppm	2.9652 ppm	3.1713 ppm	0.0048 ppm	0.1327 ppm
Concentration per Run 3	-0.0305 ppm	9.6805 ppm	0.0051 ppm	2.9424 ppm	3.1192 ppm	0.0072 ppm	0.1310 ppm
Concentration RSD	13.3 %	1.0 %	24.9 %	0.4 %	0.9 %	35.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1504 ppm	91.9002 %	97.8696 %	80.1381 %	98.8907 %	105.5159 %	99.7032 %
Concentration per Run 1	0.1489 ppm	91.5749 %	98.2836 %	81.5410 %	98.3923 %	106.0620 %	101.4445 %
Concentration per Run 2	0.1521 ppm	91.2187 %	98.2125 %	79.2406 %	98.1939 %	106.2376 %	98.6423 %
Concentration per Run 3	0.1504 ppm	92.9070 %	97.1127 %	79.6327 %	100.0860 %	104.2480 %	99.0229 %
Concentration RSD	1.1 %	1.0 %	0.7 %	1.5 %	1.1 %	1.0 %	1.5 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432936-02d2 WG1935652
Analysis started at: 6/18/2024 11:39:00 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	95.5789 ppm	0.0095 ppm	0.1660 ppm	0.5022 ppm	0.0027 ppm	841.2836 ppm
Concentration per Run 1	0.0002 ppm	95.2812 ppm	0.0097 ppm	0.1655 ppm	0.5007 ppm	0.0027 ppm	838.2674 ppm
Concentration per Run 2	-0.0004 ppm	95.3864 ppm	0.0113 ppm	0.1649 ppm	0.5017 ppm	0.0027 ppm	839.7547 ppm
Concentration per Run 3	0.0005 ppm	96.0690 ppm	0.0076 ppm	0.1676 ppm	0.5043 ppm	0.0028 ppm	845.8286 ppm
Concentration RSD	443.9 %	0.4 %	19.7 %	0.8 %	0.4 %	1.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0018 ppm	0.0168 ppm	0.1016 ppm	0.0781 ppm	71.1350 ppm	5.5691 ppm	0.0332 ppm
Concentration per Run 1	-0.0018 ppm	0.0157 ppm	0.1009 ppm	0.0772 ppm	70.8735 ppm	5.5629 ppm	0.0333 ppm
Concentration per Run 2	-0.0019 ppm	0.0173 ppm	0.1020 ppm	0.0792 ppm	71.0691 ppm	5.5688 ppm	0.0330 ppm
Concentration per Run 3	-0.0017 ppm	0.0174 ppm	0.1017 ppm	0.0780 ppm	71.4623 ppm	5.5756 ppm	0.0332 ppm
Concentration RSD	5.3 %	5.9 %	0.6 %	1.2 %	0.4 %	0.1 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.2422 ppm	1.5040 ppm	0.0004 ppm	4.4054 ppm	0.0566 ppm	0.0259 ppm	-0.0024 ppm
Concentration per Run 1	41.9980 ppm	1.4979 ppm	0.0003 ppm	4.3938 ppm	0.0568 ppm	0.0261 ppm	-0.0010 ppm
Concentration per Run 2	42.3275 ppm	1.5041 ppm	0.0008 ppm	4.3926 ppm	0.0567 ppm	0.0261 ppm	-0.0033 ppm
Concentration per Run 3	42.4010 ppm	1.5100 ppm	0.0002 ppm	4.4296 ppm	0.0565 ppm	0.0256 ppm	-0.0028 ppm
Concentration RSD	0.5 %	0.4 %	84.6 %	0.5 %	0.3 %	1.1 %	50.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0241 ppm	10.1832 ppm	0.0057 ppm	4.5954 ppm	3.8692 ppm	0.0049 ppm	0.1202 ppm
Concentration per Run 1	-0.0217 ppm	10.0939 ppm	0.0053 ppm	4.5861 ppm	3.8429 ppm	0.0058 ppm	0.1190 ppm
Concentration per Run 2	-0.0283 ppm	10.2669 ppm	0.0058 ppm	4.5881 ppm	3.8763 ppm	0.0036 ppm	0.1207 ppm
Concentration per Run 3	-0.0223 ppm	10.1888 ppm	0.0059 ppm	4.6119 ppm	3.8882 ppm	0.0053 ppm	0.1207 ppm
Concentration RSD	15.1 %	0.9 %	6.1 %	0.3 %	0.6 %	23.8 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1137 ppm	91.6740 %	97.5653 %	81.9324 %	96.5372 %	103.7421 %	98.8743 %
Concentration per Run 1	0.1131 ppm	92.3111 %	98.1863 %	81.6000 %	97.0796 %	104.3107 %	98.4394 %
Concentration per Run 2	0.1141 ppm	91.2394 %	97.1759 %	81.7149 %	96.4426 %	103.5947 %	98.3925 %
Concentration per Run 3	0.1140 ppm	91.4716 %	97.3338 %	82.4822 %	96.0895 %	103.3208 %	99.7910 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.6 %	0.5 %	0.5 %	0.8 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: eL2432936-03d2 WG1935652
Analysis started at: 6/18/2024 11:42:30 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	125.8888 ppm	0.0109 ppm	0.1888 ppm	0.6429 ppm	0.0046 ppm	1,105.4283 ppm
Concentration per Run 1	0.0009 ppm	124.9085 ppm	0.0096 ppm	0.1883 ppm	0.6373 ppm	0.0046 ppm	1,102.2171 ppm
Concentration per Run 2	0.0011 ppm	126.0700 ppm	0.0127 ppm	0.1886 ppm	0.6485 ppm	0.0046 ppm	1,102.0580 ppm
Concentration per Run 3	0.0009 ppm	126.6878 ppm	0.0105 ppm	0.1895 ppm	0.6428 ppm	0.0046 ppm	1,112.0098 ppm
Concentration RSD	14.0 %	0.7 %	14.5 %	0.3 %	0.9 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0099 ppm	0.0380 ppm	0.1386 ppm	0.1368 ppm	116.7897 ppm	7.7120 ppm	0.0672 ppm
Concentration per Run 1	0.0099 ppm	0.0375 ppm	0.1384 ppm	0.1365 ppm	115.9564 ppm	7.7080 ppm	0.0684 ppm
Concentration per Run 2	0.0099 ppm	0.0385 ppm	0.1395 ppm	0.1373 ppm	117.4336 ppm	7.7149 ppm	0.0679 ppm
Concentration per Run 3	0.0100 ppm	0.0380 ppm	0.1378 ppm	0.1366 ppm	116.9791 ppm	7.7131 ppm	0.0654 ppm
Concentration RSD	0.5 %	1.3 %	0.6 %	0.3 %	0.6 %	0.0 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.6103 ppm	2.7311 ppm	0.0000 ppm	4.1648 ppm	0.0729 ppm	0.0434 ppm	-0.0057 ppm
Concentration per Run 1	58.5647 ppm	2.7099 ppm	-0.0005 ppm	4.1488 ppm	0.0727 ppm	0.0420 ppm	-0.0097 ppm
Concentration per Run 2	58.6307 ppm	2.7323 ppm	0.0000 ppm	4.1805 ppm	0.0721 ppm	0.0451 ppm	-0.0034 ppm
Concentration per Run 3	58.6356 ppm	2.7512 ppm	0.0005 ppm	4.1650 ppm	0.0739 ppm	0.0432 ppm	-0.0039 ppm
Concentration RSD	0.1 %	0.8 %	7,099.2 %	0.4 %	1.2 %	3.6 %	61.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0343 ppm	8.1376 ppm	0.0093 ppm	6.6327 ppm	4.0946 ppm	0.0069 ppm	0.2119 ppm
Concentration per Run 1	-0.0351 ppm	8.0996 ppm	0.0092 ppm	6.5943 ppm	4.0938 ppm	0.0076 ppm	0.2115 ppm
Concentration per Run 2	-0.0335 ppm	8.1883 ppm	0.0100 ppm	6.6667 ppm	4.1095 ppm	0.0063 ppm	0.2127 ppm
Concentration per Run 3	-0.0345 ppm	8.1250 ppm	0.0086 ppm	6.6369 ppm	4.0804 ppm	0.0069 ppm	0.2116 ppm
Concentration RSD	2.4 %	0.6 %	7.5 %	0.5 %	0.4 %	9.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4327 ppm	91.4413 %	100.1348 %	80.5027 %	102.1475 %	113.0459 %	105.0127 %
Concentration per Run 1	0.4293 ppm	91.6002 %	100.5558 %	79.6639 %	102.1079 %	113.9412 %	104.0032 %
Concentration per Run 2	0.4344 ppm	92.0055 %	100.1840 %	81.4520 %	103.1178 %	112.6362 %	106.2158 %
Concentration per Run 3	0.4345 ppm	90.7180 %	99.6646 %	80.3921 %	101.2169 %	112.5603 %	104.8191 %
Concentration RSD	0.7 %	0.7 %	0.4 %	1.1 %	0.9 %	0.7 %	1.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432936-04d2 WG1935652
Analysis started at: 6/18/2024 11:46:01 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	113.1197 ppm	0.0161 ppm	0.1895 ppm	0.5756 ppm	0.0041 ppm	942.7194 ppm
Concentration per Run 1	0.0011 ppm	112.5751 ppm	0.0192 ppm	0.1920 ppm	0.5733 ppm	0.0041 ppm	938.4468 ppm
Concentration per Run 2	0.0017 ppm	113.1981 ppm	0.0155 ppm	0.1873 ppm	0.5743 ppm	0.0041 ppm	941.9286 ppm
Concentration per Run 3	0.0017 ppm	113.5858 ppm	0.0136 ppm	0.1894 ppm	0.5793 ppm	0.0041 ppm	947.7827 ppm
Concentration RSD	25.4 %	0.5 %	17.5 %	1.2 %	0.6 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0253 ppm	0.0418 ppm	0.1322 ppm	0.1655 ppm	120.5273 ppm	9.2341 ppm	0.0729 ppm
Concentration per Run 1	0.0254 ppm	0.0419 ppm	0.1319 ppm	0.1664 ppm	119.8175 ppm	9.1976 ppm	0.0731 ppm
Concentration per Run 2	0.0254 ppm	0.0415 ppm	0.1317 ppm	0.1653 ppm	120.2502 ppm	9.2256 ppm	0.0723 ppm
Concentration per Run 3	0.0252 ppm	0.0420 ppm	0.1330 ppm	0.1649 ppm	121.5142 ppm	9.2791 ppm	0.0735 ppm
Concentration RSD	0.6 %	0.6 %	0.5 %	0.5 %	0.7 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	57.2075 ppm	2.2870 ppm	0.0000 ppm	5.2296 ppm	0.0813 ppm	0.0924 ppm	0.0146 ppm
Concentration per Run 1	57.5411 ppm	2.2759 ppm	-0.0004 ppm	5.2128 ppm	0.0805 ppm	0.0901 ppm	0.0136 ppm
Concentration per Run 2	57.0875 ppm	2.2805 ppm	0.0001 ppm	5.2251 ppm	0.0821 ppm	0.0929 ppm	0.0163 ppm
Concentration per Run 3	56.9939 ppm	2.3045 ppm	0.0003 ppm	5.2509 ppm	0.0814 ppm	0.0942 ppm	0.0140 ppm
Concentration RSD	0.5 %	0.7 %	3,123.3 %	0.4 %	1.0 %	2.3 %	10.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0298 ppm	8.1492 ppm	0.0126 ppm	5.3255 ppm	3.9732 ppm	0.0070 ppm	0.2220 ppm
Concentration per Run 1	-0.0321 ppm	8.2075 ppm	0.0129 ppm	5.3113 ppm	3.9882 ppm	0.0068 ppm	0.2235 ppm
Concentration per Run 2	-0.0299 ppm	8.1425 ppm	0.0125 ppm	5.3134 ppm	3.9717 ppm	0.0082 ppm	0.2212 ppm
Concentration per Run 3	-0.0273 ppm	8.0978 ppm	0.0124 ppm	5.3516 ppm	3.9598 ppm	0.0060 ppm	0.2214 ppm
Concentration RSD	8.1 %	0.7 %	2.0 %	0.4 %	0.4 %	16.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4954 ppm	92.9803 %	99.6616 %	81.3980 %	103.7115 %	111.8943 %	105.2891 %
Concentration per Run 1	0.4971 ppm	92.9148 %	100.9908 %	81.8065 %	103.5678 %	113.2647 %	105.6135 %
Concentration per Run 2	0.4942 ppm	93.1737 %	99.6313 %	81.0412 %	103.7308 %	112.2113 %	105.3636 %
Concentration per Run 3	0.4951 ppm	92.8525 %	98.3627 %	81.3462 %	103.8359 %	110.2070 %	104.8900 %
Concentration RSD	0.3 %	0.2 %	1.3 %	0.5 %	0.1 %	1.4 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432936-05d2 WG1935652
Analysis started at: 6/18/2024 11:49:31 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	132.0402 ppm	0.0137 ppm	0.1568 ppm	0.7484 ppm	0.0049 ppm	842.2027 ppm
Concentration per Run 1	0.0018 ppm	131.6806 ppm	0.0157 ppm	0.1570 ppm	0.7494 ppm	0.0049 ppm	841.2327 ppm
Concentration per Run 2	0.0018 ppm	132.2308 ppm	0.0118 ppm	0.1564 ppm	0.7538 ppm	0.0048 ppm	842.0865 ppm
Concentration per Run 3	0.0020 ppm	132.2092 ppm	0.0137 ppm	0.1570 ppm	0.7418 ppm	0.0049 ppm	843.2889 ppm
Concentration RSD	8.1 %	0.2 %	14.2 %	0.2 %	0.8 %	1.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0089 ppm	0.0388 ppm	0.1190 ppm	0.1394 ppm	133.4862 ppm	2.7326 ppm	0.0614 ppm
Concentration per Run 1	0.0089 ppm	0.0385 ppm	0.1187 ppm	0.1388 ppm	133.5670 ppm	2.7623 ppm	0.0625 ppm
Concentration per Run 2	0.0090 ppm	0.0388 ppm	0.1191 ppm	0.1395 ppm	133.5108 ppm	2.7356 ppm	0.0610 ppm
Concentration per Run 3	0.0088 ppm	0.0389 ppm	0.1191 ppm	0.1399 ppm	133.3808 ppm	2.6998 ppm	0.0608 ppm
Concentration RSD	1.0 %	0.6 %	0.2 %	0.4 %	0.1 %	1.1 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	53.1943 ppm	3.2371 ppm	0.0009 ppm	1.6295 ppm	0.0723 ppm	0.0799 ppm	0.0132 ppm
Concentration per Run 1	53.0265 ppm	3.2247 ppm	0.0002 ppm	1.6292 ppm	0.0732 ppm	0.0793 ppm	0.0143 ppm
Concentration per Run 2	53.2929 ppm	3.2436 ppm	0.0014 ppm	1.6293 ppm	0.0731 ppm	0.0817 ppm	0.0125 ppm
Concentration per Run 3	53.2635 ppm	3.2429 ppm	0.0010 ppm	1.6299 ppm	0.0706 ppm	0.0789 ppm	0.0128 ppm
Concentration RSD	0.3 %	0.3 %	69.1 %	0.0 %	2.0 %	1.9 %	7.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0261 ppm	6.1809 ppm	0.0093 ppm	3.4525 ppm	4.4281 ppm	0.0080 ppm	0.2021 ppm
Concentration per Run 1	-0.0241 ppm	6.1479 ppm	0.0104 ppm	3.4633 ppm	4.4227 ppm	0.0080 ppm	0.2014 ppm
Concentration per Run 2	-0.0265 ppm	6.2024 ppm	0.0095 ppm	3.4624 ppm	4.4336 ppm	0.0062 ppm	0.2022 ppm
Concentration per Run 3	-0.0277 ppm	6.1924 ppm	0.0078 ppm	3.4318 ppm	4.4280 ppm	0.0098 ppm	0.2026 ppm
Concentration RSD	7.0 %	0.5 %	14.4 %	0.5 %	0.1 %	22.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7772 ppm	91.5481 %	98.5737 %	81.2355 %	108.4767 %	117.2674 %	110.7003 %
Concentration per Run 1	0.7746 ppm	91.1974 %	98.0342 %	81.4572 %	108.0440 %	116.0983 %	111.1431 %
Concentration per Run 2	0.7774 ppm	91.9598 %	98.0805 %	81.3593 %	108.7248 %	116.5914 %	111.0350 %
Concentration per Run 3	0.7795 ppm	91.4871 %	99.6065 %	80.8899 %	108.6615 %	119.1125 %	109.9229 %
Concentration RSD	0.3 %	0.4 %	0.9 %	0.4 %	0.3 %	1.4 %	0.6 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432952-21d2 WG1935652
Analysis started at: 6/18/2024 11:53:02 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	26.6448 ppm	0.0388 ppm	0.0148 ppm	0.8779 ppm	0.0033 ppm	29.0181 ppm
Concentration per Run 1	0.0017 ppm	26.5844 ppm	0.0375 ppm	0.0147 ppm	0.8808 ppm	0.0032 ppm	29.1142 ppm
Concentration per Run 2	0.0015 ppm	26.6939 ppm	0.0378 ppm	0.0150 ppm	0.8750 ppm	0.0032 ppm	28.7792 ppm
Concentration per Run 3	0.0016 ppm	26.6562 ppm	0.0410 ppm	0.0147 ppm	0.8779 ppm	0.0035 ppm	29.1608 ppm
Concentration RSD	6.6 %	0.2 %	5.0 %	1.2 %	0.3 %	5.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0368 ppm	0.0804 ppm	0.3271 ppm	36.6485 ppm	5.1194 ppm	0.0678 ppm
Concentration per Run 1	0.0046 ppm	0.0364 ppm	0.0793 ppm	0.3249 ppm	36.5720 ppm	5.1474 ppm	0.0691 ppm
Concentration per Run 2	0.0047 ppm	0.0378 ppm	0.0824 ppm	0.3297 ppm	36.4890 ppm	5.0853 ppm	0.0661 ppm
Concentration per Run 3	0.0046 ppm	0.0362 ppm	0.0796 ppm	0.3267 ppm	36.8846 ppm	5.1256 ppm	0.0684 ppm
Concentration RSD	1.9 %	2.4 %	2.1 %	0.7 %	0.6 %	0.6 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.0225 ppm	0.3716 ppm	0.0280 ppm	1.0804 ppm	0.1045 ppm	2.4409 ppm	0.0131 ppm
Concentration per Run 1	2.0049 ppm	0.3747 ppm	0.0277 ppm	1.0799 ppm	0.1029 ppm	2.4505 ppm	0.0130 ppm
Concentration per Run 2	2.0420 ppm	0.3687 ppm	0.0285 ppm	1.0698 ppm	0.1048 ppm	2.4564 ppm	0.0138 ppm
Concentration per Run 3	2.0206 ppm	0.3716 ppm	0.0277 ppm	1.0916 ppm	0.1059 ppm	2.4158 ppm	0.0125 ppm
Concentration RSD	0.9 %	0.8 %	1.5 %	1.0 %	1.5 %	0.9 %	4.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0058 ppm	3.5977 ppm	0.0182 ppm	0.7194 ppm	1.5418 ppm	0.0023 ppm	0.1973 ppm
Concentration per Run 1	0.0054 ppm	3.6071 ppm	0.0176 ppm	0.7178 ppm	1.5182 ppm	0.0004 ppm	0.1958 ppm
Concentration per Run 2	0.0048 ppm	3.6819 ppm	0.0184 ppm	0.7220 ppm	1.5713 ppm	0.0037 ppm	0.1997 ppm
Concentration per Run 3	0.0071 ppm	3.5041 ppm	0.0185 ppm	0.7184 ppm	1.5358 ppm	0.0029 ppm	0.1962 ppm
Concentration RSD	20.4 %	2.5 %	2.8 %	0.3 %	1.8 %	74.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6437 ppm	103.5625 %	101.5174 %	99.2676 %	115.0104 %	111.5889 %	115.0593 %
Concentration per Run 1	0.6356 ppm	104.7820 %	101.5080 %	98.9171 %	116.6835 %	111.4987 %	114.7234 %
Concentration per Run 2	0.6532 ppm	102.0548 %	102.8107 %	98.4256 %	113.3152 %	112.7700 %	113.7675 %
Concentration per Run 3	0.6423 ppm	103.8506 %	100.2336 %	100.4599 %	115.0326 %	110.4980 %	116.6870 %
Concentration RSD	1.4 %	1.3 %	1.3 %	1.1 %	1.5 %	1.0 %	1.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432952-22d2 WG1935652
Analysis started at: 6/18/2024 11:56:33 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0098 ppm	73.5892 ppm	0.0784 ppm	0.1213 ppm	4.1148 ppm	0.0028 ppm	416.5479 ppm
Concentration per Run 1	0.0098 ppm	73.2164 ppm	0.0809 ppm	0.1224 ppm	4.0875 ppm	0.0028 ppm	415.4791 ppm
Concentration per Run 2	0.0097 ppm	73.5663 ppm	0.0765 ppm	0.1227 ppm	4.1225 ppm	0.0028 ppm	416.3051 ppm
Concentration per Run 3	0.0099 ppm	73.9851 ppm	0.0778 ppm	0.1188 ppm	4.1344 ppm	0.0028 ppm	417.8595 ppm
Concentration RSD	1.3 %	0.5 %	2.9 %	1.8 %	0.6 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0146 ppm	0.0474 ppm	0.1845 ppm	1.0600 ppm	76.2954 ppm	5.4323 ppm	0.1638 ppm
Concentration per Run 1	0.0144 ppm	0.0482 ppm	0.1849 ppm	1.0615 ppm	75.7731 ppm	5.4370 ppm	0.1633 ppm
Concentration per Run 2	0.0148 ppm	0.0470 ppm	0.1850 ppm	1.0603 ppm	76.4407 ppm	5.4332 ppm	0.1644 ppm
Concentration per Run 3	0.0147 ppm	0.0468 ppm	0.1836 ppm	1.0583 ppm	76.6726 ppm	5.4266 ppm	0.1637 ppm
Concentration RSD	1.5 %	1.6 %	0.4 %	0.2 %	0.6 %	0.1 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	73.0534 ppm	1.9570 ppm	0.0219 ppm	1.4093 ppm	0.1262 ppm	26.6039 ppm	0.4184 ppm
Concentration per Run 1	73.4457 ppm	1.9465 ppm	0.0212 ppm	1.4137 ppm	0.1267 ppm	26.4675 ppm	0.4180 ppm
Concentration per Run 2	72.8776 ppm	1.9580 ppm	0.0223 ppm	1.4070 ppm	0.1261 ppm	26.8202 ppm	0.4190 ppm
Concentration per Run 3	72.8369 ppm	1.9666 ppm	0.0221 ppm	1.4073 ppm	0.1259 ppm	26.5238 ppm	0.4181 ppm
Concentration RSD	0.5 %	0.5 %	2.8 %	0.3 %	0.4 %	0.7 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0045 ppm	1.5348 ppm	0.3127 ppm	1.1107 ppm	1.2850 ppm	0.0013 ppm	0.2139 ppm
Concentration per Run 1	-0.0038 ppm	1.5866 ppm	0.3076 ppm	1.1012 ppm	1.2886 ppm	0.0012 ppm	0.2135 ppm
Concentration per Run 2	-0.0076 ppm	1.5299 ppm	0.3182 ppm	1.1137 ppm	1.2899 ppm	0.0014 ppm	0.2139 ppm
Concentration per Run 3	-0.0023 ppm	1.4878 ppm	0.3121 ppm	1.1174 ppm	1.2764 ppm	0.0013 ppm	0.2141 ppm
Concentration RSD	60.7 %	3.2 %	1.7 %	0.8 %	0.6 %	9.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.0226 ppm	93.9017 %	98.2593 %	86.1422 %	99.3916 %	104.0307 %	102.8121 %
Concentration per Run 1	8.0574 ppm	93.4901 %	99.3361 %	85.9784 %	98.9493 %	105.0746 %	102.6168 %
Concentration per Run 2	7.9945 ppm	94.1198 %	97.7577 %	86.4591 %	99.5981 %	103.6464 %	103.3299 %
Concentration per Run 3	8.0159 ppm	94.0952 %	97.6840 %	85.9891 %	99.6273 %	103.3710 %	102.4897 %
Concentration RSD	0.4 %	0.4 %	0.9 %	0.3 %	0.4 %	0.9 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432952-23d2 WG1935652
Analysis started at: 6/19/2024 12:00:04 AM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0139 ppm	56.2607 ppm	0.0791 ppm	0.1138 ppm	6.5086 ppm	0.0026 ppm	561.4967 ppm
Concentration per Run 1	0.0143 ppm	56.8631 ppm	0.0806 ppm	0.1114 ppm	6.5963 ppm	0.0026 ppm	566.5144 ppm
Concentration per Run 2	0.0139 ppm	56.2104 ppm	0.0789 ppm	0.1133 ppm	6.5000 ppm	0.0027 ppm	563.8972 ppm
Concentration per Run 3	0.0136 ppm	55.7086 ppm	0.0780 ppm	0.1166 ppm	6.4295 ppm	0.0026 ppm	554.0787 ppm
Concentration RSD	2.4 %	1.0 %	1.7 %	2.3 %	1.3 %	2.6 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0166 ppm	0.0403 ppm	0.1806 ppm	1.1439 ppm	74.4915 ppm	5.0361 ppm	0.1118 ppm
Concentration per Run 1	0.0167 ppm	0.0405 ppm	0.1801 ppm	1.1435 ppm	75.0408 ppm	5.1592 ppm	0.1155 ppm
Concentration per Run 2	0.0167 ppm	0.0399 ppm	0.1796 ppm	1.1331 ppm	74.8910 ppm	4.9828 ppm	0.1093 ppm
Concentration per Run 3	0.0162 ppm	0.0406 ppm	0.1821 ppm	1.1549 ppm	73.5426 ppm	4.9662 ppm	0.1104 ppm
Concentration RSD	1.6 %	1.0 %	0.7 %	1.0 %	1.1 %	2.1 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.2169 ppm	2.0943 ppm	0.0150 ppm	1.3540 ppm	0.1247 ppm	18.0927 ppm	0.3589 ppm
Concentration per Run 1	75.9442 ppm	2.1084 ppm	0.0137 ppm	1.3748 ppm	0.1250 ppm	18.0593 ppm	0.3513 ppm
Concentration per Run 2	76.0832 ppm	2.0931 ppm	0.0153 ppm	1.3451 ppm	0.1245 ppm	17.9235 ppm	0.3563 ppm
Concentration per Run 3	76.6234 ppm	2.0815 ppm	0.0161 ppm	1.3420 ppm	0.1245 ppm	18.2952 ppm	0.3692 ppm
Concentration RSD	0.5 %	0.6 %	8.0 %	1.3 %	0.2 %	1.0 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0104 ppm	1.6888 ppm	0.2739 ppm	1.6163 ppm	1.2049 ppm	0.0039 ppm	0.2014 ppm
Concentration per Run 1	-0.0080 ppm	1.6695 ppm	0.2713 ppm	1.6323 ppm	1.2053 ppm	0.0050 ppm	0.2007 ppm
Concentration per Run 2	-0.0160 ppm	1.6797 ppm	0.2735 ppm	1.6161 ppm	1.2013 ppm	0.0036 ppm	0.2003 ppm
Concentration per Run 3	-0.0073 ppm	1.7173 ppm	0.2768 ppm	1.6005 ppm	1.2082 ppm	0.0031 ppm	0.2031 ppm
Concentration RSD	46.2 %	1.5 %	1.0 %	1.0 %	0.3 %	25.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	9.7027 ppm	92.4784 %	97.7498 %	82.2485 %	96.7288 %	102.7056 %	98.4445 %
Concentration per Run 1	9.6681 ppm	92.7771 %	98.1168 %	82.2005 %	97.0198 %	102.6359 %	98.5024 %
Concentration per Run 2	9.6597 ppm	92.9246 %	96.5205 %	82.9000 %	96.9449 %	101.8325 %	98.8294 %
Concentration per Run 3	9.7802 ppm	91.7333 %	98.6119 %	81.6448 %	96.2219 %	103.6483 %	98.0018 %
Concentration RSD	0.7 %	0.7 %	1.1 %	0.8 %	0.5 %	0.9 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:03:34 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5088 ppm	0.4828 ppm	0.4690 ppm	0.4991 ppm	0.4979 ppm	0.5147 ppm	0.4976 ppm
Concentration per Run 1	0.5079 ppm	0.4742 ppm	0.4662 ppm	0.4994 ppm	0.4936 ppm	0.5104 ppm	0.4928 ppm
Concentration per Run 2	0.5070 ppm	0.4831 ppm	0.4705 ppm	0.4967 ppm	0.5005 ppm	0.5156 ppm	0.4961 ppm
Concentration per Run 3	0.5115 ppm	0.4912 ppm	0.4704 ppm	0.5011 ppm	0.4997 ppm	0.5180 ppm	0.5040 ppm
Recovery Percentage 1	101.757 %	96.565 %	93.800 %	99.816 %	99.587 %	102.931 %	99.528 %
Concentration RSD	0.5 %	1.8 %	0.5 %	0.4 %	0.8 %	0.8 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5047 ppm	0.5160 ppm	0.4974 ppm	0.5033 ppm	0.5149 ppm	5.0685 ppm	0.5012 ppm
Concentration per Run 1	0.4981 ppm	0.5125 ppm	0.4972 ppm	0.5019 ppm	0.5120 ppm	5.0589 ppm	0.4984 ppm
Concentration per Run 2	0.5041 ppm	0.5141 ppm	0.4955 ppm	0.5029 ppm	0.5160 ppm	5.0951 ppm	0.5037 ppm
Concentration per Run 3	0.5118 ppm	0.5215 ppm	0.4996 ppm	0.5052 ppm	0.5168 ppm	5.0514 ppm	0.5014 ppm
Recovery Percentage 1	100.934 %	103.207 %	99.489 %	100.665 %	102.981 %	101.369 %	100.230 %
Concentration RSD	1.4 %	0.9 %	0.4 %	0.3 %	0.5 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4964 ppm	0.4846 ppm	0.5045 ppm	9.8614 ppm	0.5199 ppm	0.5073 ppm	0.5023 ppm
Concentration per Run 1	0.4949 ppm	0.4837 ppm	0.4976 ppm	9.7311 ppm	0.5201 ppm	0.5058 ppm	0.4980 ppm
Concentration per Run 2	0.4948 ppm	0.4839 ppm	0.5048 ppm	9.9253 ppm	0.5176 ppm	0.5054 ppm	0.4994 ppm
Concentration per Run 3	0.4995 ppm	0.4863 ppm	0.5110 ppm	9.9278 ppm	0.5221 ppm	0.5108 ppm	0.5095 ppm
Recovery Percentage 1	99.282 %	96.927 %	100.894 %	98.614 %	103.987 %	101.467 %	100.456 %
Concentration RSD	0.5 %	0.3 %	1.3 %	1.1 %	0.4 %	0.6 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4909 ppm	5.6788 ppm	0.5340 ppm	0.5006 ppm	0.5149 ppm	0.4987 ppm	0.4965 ppm
Concentration per Run 1	0.4896 ppm	5.6287 ppm	0.5341 ppm	0.4966 ppm	0.5140 ppm	0.4969 ppm	0.4950 ppm
Concentration per Run 2	0.4884 ppm	5.6919 ppm	0.5312 ppm	0.5021 ppm	0.5139 ppm	0.5009 ppm	0.4965 ppm
Concentration per Run 3	0.4948 ppm	5.7158 ppm	0.5367 ppm	0.5032 ppm	0.5168 ppm	0.4983 ppm	0.4979 ppm
Recovery Percentage 1	98.185 %	108.167 %	106.796 %	100.124 %	102.983 %	99.742 %	99.296 %
Concentration RSD	0.7 %	0.8 %	0.5 %	0.7 %	0.3 %	0.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5153 ppm	100.6320 %	99.8273 %	98.9672 %	100.3671 %	98.7233 %	100.3498 %
Concentration per Run 1	0.5146 ppm	101.3684 %	100.6166 %	98.8199 %	101.0783 %	99.7947 %	100.2221 %
Concentration per Run 2	0.5149 ppm	100.4077 %	98.9239 %	99.0613 %	100.2655 %	97.4805 %	100.3488 %
Concentration per Run 3	0.5163 ppm	100.1200 %	99.9413 %	99.0205 %	99.7576 %	98.8948 %	100.4784 %
Recovery Percentage 1	103.054 %						
Concentration RSD	0.2 %	0.6 %	0.9 %	0.1 %	0.7 %	1.2 %	0.1 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:07:04 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0061 ppm	-0.0029 ppm	-0.0015 ppm	0.0005 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 1	-0.0002 ppm	-0.0057 ppm	-0.0035 ppm	-0.0019 ppm	0.0004 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 2	-0.0005 ppm	-0.0053 ppm	-0.0034 ppm	-0.0019 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	-0.0072 ppm	-0.0018 ppm	-0.0008 ppm	0.0005 ppm	0.0001 ppm	0.0023 ppm
Recovery Percentage 1	-5.555 %	-6.059 %	-57.293 %	-5.081 %	4.578 %	4.031 %	1.463 %
Concentration RSD	51.1 %	16.9 %	33.6 %	40.1 %	17.2 %	31.2 %	52.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0008 ppm	0.0001 ppm	0.0003 ppm	0.0023 ppm	-0.0449 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	-0.0398 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0034 ppm	-0.0346 ppm	0.0020 ppm
Concentration per Run 3	-0.0001 ppm	-0.0014 ppm	0.0000 ppm	0.0003 ppm	0.0029 ppm	-0.0601 ppm	0.0019 ppm
Recovery Percentage 1	-0.204 %	-3.854 %	1.475 %	2.806 %	4.529 %	-1.794 %	39.850 %
Concentration RSD	1,020.2 %	79.6 %	78.5 %	61.8 %	68.4 %	30.0 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0019 ppm	-0.0145 ppm	0.0005 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run 1	-0.0027 ppm	0.0001 ppm	0.0012 ppm	-0.0173 ppm	0.0007 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 2	-0.0008 ppm	-0.0001 ppm	0.0027 ppm	-0.0114 ppm	0.0002 ppm	-0.0008 ppm	-0.0040 ppm
Concentration per Run 3	0.0005 ppm	0.0000 ppm	0.0018 ppm	-0.0149 ppm	0.0007 ppm	0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	-1.017 %	0.269 %	3.846 %	-0.726 %	2.116 %	0.911 %	-4.076 %
Concentration RSD	158.6 %	337.8 %	39.8 %	20.7 %	53.4 %	975.9 %	91.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	-0.0035 ppm	0.0012 ppm	-0.0001 ppm	0.0014 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	-0.0027 ppm	0.0014 ppm	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0028 ppm	-0.0034 ppm	0.0016 ppm	-0.0001 ppm	0.0017 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 3	0.0043 ppm	-0.0043 ppm	0.0005 ppm	0.0000 ppm	0.0014 ppm	0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	28.758 %	-0.695 %	2.340 %	-0.571 %	13.822 %	3.963 %	-0.770 %
Concentration RSD	48.3 %	22.4 %	51.4 %	76.8 %	22.5 %	93.5 %	205.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	100.9821 %	99.6803 %	101.6152 %	102.1058 %	99.4015 %	103.1611 %
Concentration per Run 1	0.0005 ppm	100.5007 %	99.8639 %	102.3203 %	101.6806 %	99.3897 %	103.6810 %
Concentration per Run 2	0.0004 ppm	100.3813 %	100.5178 %	101.3898 %	101.3044 %	100.8174 %	102.9091 %
Concentration per Run 3	0.0004 ppm	102.0644 %	98.6590 %	101.1354 %	103.3325 %	97.9973 %	102.8933 %
Recovery Percentage 1	9.125 %						
Concentration RSD	7.1 %	0.9 %	0.9 %	0.6 %	1.1 %	1.4 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432952-24d2 WG1935652
Analysis started at: 6/19/2024 12:10:34 AM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0038 ppm	35.0113 ppm	0.0765 ppm	0.0246 ppm	1.2377 ppm	0.0027 ppm	25.6829 ppm
Concentration per Run 1	0.0036 ppm	35.0767 ppm	0.0763 ppm	0.0252 ppm	1.2430 ppm	0.0027 ppm	25.6939 ppm
Concentration per Run 2	0.0040 ppm	35.0481 ppm	0.0788 ppm	0.0235 ppm	1.2406 ppm	0.0028 ppm	25.7901 ppm
Concentration per Run 3	0.0038 ppm	34.9092 ppm	0.0744 ppm	0.0251 ppm	1.2295 ppm	0.0027 ppm	25.5648 ppm
Concentration RSD	6.1 %	0.3 %	2.9 %	3.8 %	0.6 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0098 ppm	0.0401 ppm	0.1053 ppm	0.6429 ppm	75.1813 ppm	4.4370 ppm	0.0752 ppm
Concentration per Run 1	0.0095 ppm	0.0400 ppm	0.1054 ppm	0.6400 ppm	75.4100 ppm	4.4534 ppm	0.0771 ppm
Concentration per Run 2	0.0099 ppm	0.0398 ppm	0.1045 ppm	0.6343 ppm	75.3072 ppm	4.4677 ppm	0.0748 ppm
Concentration per Run 3	0.0101 ppm	0.0405 ppm	0.1061 ppm	0.6544 ppm	74.8265 ppm	4.3899 ppm	0.0738 ppm
Concentration RSD	3.3 %	1.0 %	0.8 %	1.6 %	0.4 %	0.9 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.3090 ppm	0.9657 ppm	0.0314 ppm	0.7044 ppm	0.1208 ppm	2.1054 ppm	0.0144 ppm
Concentration per Run 1	2.2943 ppm	0.9679 ppm	0.0312 ppm	0.7069 ppm	0.1203 ppm	2.0911 ppm	0.0132 ppm
Concentration per Run 2	2.2978 ppm	0.9698 ppm	0.0307 ppm	0.7044 ppm	0.1202 ppm	2.1116 ppm	0.0154 ppm
Concentration per Run 3	2.3348 ppm	0.9595 ppm	0.0321 ppm	0.7019 ppm	0.1218 ppm	2.1136 ppm	0.0146 ppm
Concentration RSD	1.0 %	0.6 %	2.2 %	0.4 %	0.7 %	0.6 %	8.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0160 ppm	4.8209 ppm	0.1850 ppm	0.4232 ppm	3.8572 ppm	0.0033 ppm	0.2695 ppm
Concentration per Run 1	0.0156 ppm	4.7990 ppm	0.1846 ppm	0.4246 ppm	3.8509 ppm	0.0037 ppm	0.2682 ppm
Concentration per Run 2	0.0166 ppm	4.7338 ppm	0.1844 ppm	0.4244 ppm	3.8504 ppm	0.0022 ppm	0.2679 ppm
Concentration per Run 3	0.0157 ppm	4.9299 ppm	0.1859 ppm	0.4206 ppm	3.8704 ppm	0.0041 ppm	0.2725 ppm
Concentration RSD	3.3 %	2.1 %	0.4 %	0.5 %	0.3 %	29.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4476 ppm	104.3597 %	102.9176 %	101.3524 %	114.9563 %	113.4433 %	116.2274 %
Concentration per Run 1	1.4423 ppm	104.2564 %	102.6699 %	101.7023 %	114.5681 %	113.0408 %	116.6084 %
Concentration per Run 2	1.4411 ppm	104.6513 %	103.4774 %	101.6345 %	115.5263 %	114.2744 %	116.3339 %
Concentration per Run 3	1.4595 ppm	104.1714 %	102.6055 %	100.7205 %	114.7745 %	113.0147 %	115.7400 %
Concentration RSD	0.7 %	0.2 %	0.5 %	0.5 %	0.4 %	0.6 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432990-01d2 WG1935652
Analysis started at: 6/19/2024 12:14:05 AM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	47.9150 ppm	0.0243 ppm	0.0162 ppm	0.4380 ppm	0.0022 ppm	370.9451 ppm
Concentration per Run 1	0.0020 ppm	47.9619 ppm	0.0212 ppm	0.0136 ppm	0.4386 ppm	0.0022 ppm	373.0896 ppm
Concentration per Run 2	0.0021 ppm	47.9989 ppm	0.0258 ppm	0.0177 ppm	0.4382 ppm	0.0023 ppm	371.7806 ppm
Concentration per Run 3	0.0025 ppm	47.7841 ppm	0.0258 ppm	0.0171 ppm	0.4372 ppm	0.0022 ppm	367.9651 ppm
Concentration RSD	12.5 %	0.2 %	11.0 %	13.6 %	0.2 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0023 ppm	0.0337 ppm	0.0647 ppm	0.1811 ppm	99.3322 ppm	3.5386 ppm	0.0617 ppm
Concentration per Run 1	-0.0021 ppm	0.0339 ppm	0.0648 ppm	0.1824 ppm	99.2038 ppm	3.5623 ppm	0.0613 ppm
Concentration per Run 2	-0.0023 ppm	0.0330 ppm	0.0645 ppm	0.1808 ppm	99.2030 ppm	3.5245 ppm	0.0619 ppm
Concentration per Run 3	-0.0025 ppm	0.0341 ppm	0.0648 ppm	0.1802 ppm	99.5898 ppm	3.5291 ppm	0.0620 ppm
Concentration RSD	8.3 %	1.7 %	0.3 %	0.6 %	0.2 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.2857 ppm	4.3648 ppm	0.0009 ppm	2.6372 ppm	0.0751 ppm	0.1068 ppm	-0.0061 ppm
Concentration per Run 1	55.6987 ppm	4.3675 ppm	0.0010 ppm	2.6347 ppm	0.0753 ppm	0.1065 ppm	-0.0082 ppm
Concentration per Run 2	55.2796 ppm	4.3765 ppm	0.0004 ppm	2.6542 ppm	0.0751 ppm	0.1068 ppm	-0.0055 ppm
Concentration per Run 3	54.8787 ppm	4.3505 ppm	0.0013 ppm	2.6226 ppm	0.0749 ppm	0.1070 ppm	-0.0046 ppm
Concentration RSD	0.7 %	0.3 %	49.7 %	0.6 %	0.3 %	0.3 %	30.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0132 ppm	5.1136 ppm	0.0084 ppm	0.5021 ppm	0.7912 ppm	0.0014 ppm	0.1232 ppm
Concentration per Run 1	-0.0079 ppm	5.2331 ppm	0.0076 ppm	0.5019 ppm	0.7928 ppm	0.0010 ppm	0.1243 ppm
Concentration per Run 2	-0.0183 ppm	5.1105 ppm	0.0092 ppm	0.5022 ppm	0.7943 ppm	0.0016 ppm	0.1233 ppm
Concentration per Run 3	-0.0132 ppm	4.9973 ppm	0.0085 ppm	0.5023 ppm	0.7864 ppm	0.0016 ppm	0.1219 ppm
Concentration RSD	39.7 %	2.3 %	9.6 %	0.0 %	0.5 %	23.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3866 ppm	96.9032 %	99.3807 %	87.1702 %	119.9590 %	123.3479 %	121.5513 %
Concentration per Run 1	0.3919 ppm	96.0691 %	98.8570 %	87.0852 %	119.1254 %	123.1939 %	121.3637 %
Concentration per Run 2	0.3850 ppm	97.3016 %	100.4235 %	87.4811 %	120.4045 %	125.4213 %	122.0713 %
Concentration per Run 3	0.3827 ppm	97.3390 %	98.8615 %	86.9442 %	120.3470 %	121.4284 %	121.2187 %
Concentration RSD	1.2 %	0.7 %	0.9 %	0.3 %	0.6 %	1.6 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432990-02d2 WG1935652
Analysis started at: 6/19/2024 12:17:35 AM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	45.0984 ppm	0.0238 ppm	0.0180 ppm	0.3411 ppm	0.0023 ppm	387.2880 ppm
Concentration per Run 1	0.0022 ppm	45.2826 ppm	0.0206 ppm	0.0193 ppm	0.3414 ppm	0.0023 ppm	389.6470 ppm
Concentration per Run 2	0.0018 ppm	45.1467 ppm	0.0240 ppm	0.0175 ppm	0.3429 ppm	0.0023 ppm	386.5968 ppm
Concentration per Run 3	0.0020 ppm	44.8660 ppm	0.0267 ppm	0.0174 ppm	0.3388 ppm	0.0024 ppm	385.6202 ppm
Concentration RSD	9.7 %	0.5 %	12.8 %	5.8 %	0.6 %	1.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0024 ppm	0.0332 ppm	0.0671 ppm	0.1869 ppm	97.7425 ppm	3.4936 ppm	0.0626 ppm
Concentration per Run 1	-0.0023 ppm	0.0333 ppm	0.0664 ppm	0.1854 ppm	97.8378 ppm	3.5239 ppm	0.0633 ppm
Concentration per Run 2	-0.0025 ppm	0.0330 ppm	0.0672 ppm	0.1870 ppm	97.4684 ppm	3.4590 ppm	0.0624 ppm
Concentration per Run 3	-0.0024 ppm	0.0333 ppm	0.0678 ppm	0.1882 ppm	97.9212 ppm	3.4980 ppm	0.0622 ppm
Concentration RSD	4.2 %	0.6 %	1.0 %	0.8 %	0.2 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.5931 ppm	4.5057 ppm	0.0005 ppm	3.8529 ppm	0.0772 ppm	0.1139 ppm	-0.0084 ppm
Concentration per Run 1	63.3875 ppm	4.5299 ppm	0.0001 ppm	3.8816 ppm	0.0765 ppm	0.1147 ppm	-0.0107 ppm
Concentration per Run 2	63.7174 ppm	4.4975 ppm	0.0009 ppm	3.8151 ppm	0.0778 ppm	0.1147 ppm	-0.0057 ppm
Concentration per Run 3	63.6745 ppm	4.4897 ppm	0.0006 ppm	3.8620 ppm	0.0772 ppm	0.1124 ppm	-0.0087 ppm
Concentration RSD	0.3 %	0.5 %	82.5 %	0.9 %	0.8 %	1.2 %	30.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0160 ppm	4.9167 ppm	0.0072 ppm	0.5105 ppm	0.7222 ppm	0.0018 ppm	0.1189 ppm
Concentration per Run 1	-0.0158 ppm	4.9851 ppm	0.0072 ppm	0.5132 ppm	0.7262 ppm	0.0019 ppm	0.1180 ppm
Concentration per Run 2	-0.0175 ppm	4.8517 ppm	0.0071 ppm	0.5094 ppm	0.7240 ppm	0.0024 ppm	0.1186 ppm
Concentration per Run 3	-0.0147 ppm	4.9133 ppm	0.0074 ppm	0.5088 ppm	0.7165 ppm	0.0009 ppm	0.1201 ppm
Concentration RSD	8.5 %	1.4 %	2.0 %	0.5 %	0.7 %	43.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3696 ppm	95.2277 %	100.5792 %	86.0150 %	116.8800 %	123.3300 %	119.0979 %
Concentration per Run 1	0.3662 ppm	96.4537 %	100.8330 %	86.2020 %	118.5890 %	124.0830 %	119.3213 %
Concentration per Run 2	0.3680 ppm	94.8122 %	100.3924 %	85.0512 %	116.1387 %	123.5492 %	117.9682 %
Concentration per Run 3	0.3747 ppm	94.4171 %	100.5121 %	86.7917 %	115.9124 %	122.3578 %	120.0042 %
Concentration RSD	1.2 %	1.1 %	0.2 %	1.0 %	1.3 %	0.7 %	0.9 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432990-03d2 WG1935652
Analysis started at: 6/19/2024 12:21:06 AM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0028 ppm	50.3797 ppm	0.0352 ppm	0.0171 ppm	0.5583 ppm	0.0027 ppm	289.6908 ppm
Concentration per Run 1	0.0026 ppm	51.0390 ppm	0.0363 ppm	0.0177 ppm	0.5639 ppm	0.0028 ppm	292.6863 ppm
Concentration per Run 2	0.0027 ppm	49.9866 ppm	0.0372 ppm	0.0164 ppm	0.5569 ppm	0.0028 ppm	287.9774 ppm
Concentration per Run 3	0.0031 ppm	50.1134 ppm	0.0322 ppm	0.0173 ppm	0.5540 ppm	0.0027 ppm	288.4087 ppm
Concentration RSD	9.9 %	1.1 %	7.7 %	4.0 %	0.9 %	2.1 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0032 ppm	0.0379 ppm	0.0754 ppm	0.2501 ppm	120.6110 ppm	3.5620 ppm	0.0655 ppm
Concentration per Run 1	-0.0032 ppm	0.0380 ppm	0.0747 ppm	0.2477 ppm	121.3930 ppm	3.6007 ppm	0.0686 ppm
Concentration per Run 2	-0.0032 ppm	0.0374 ppm	0.0754 ppm	0.2508 ppm	120.5666 ppm	3.5821 ppm	0.0642 ppm
Concentration per Run 3	-0.0032 ppm	0.0384 ppm	0.0760 ppm	0.2518 ppm	119.8733 ppm	3.5032 ppm	0.0636 ppm
Concentration RSD	1.4 %	1.4 %	0.9 %	0.9 %	0.6 %	1.5 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.3353 ppm	6.0670 ppm	0.0003 ppm	4.4919 ppm	0.0864 ppm	0.0645 ppm	-0.0045 ppm
Concentration per Run 1	41.0222 ppm	6.1267 ppm	-0.0001 ppm	4.5448 ppm	0.0863 ppm	0.0643 ppm	-0.0021 ppm
Concentration per Run 2	41.3856 ppm	6.0364 ppm	0.0008 ppm	4.4785 ppm	0.0859 ppm	0.0638 ppm	-0.0042 ppm
Concentration per Run 3	41.5980 ppm	6.0378 ppm	0.0002 ppm	4.4524 ppm	0.0871 ppm	0.0656 ppm	-0.0072 ppm
Concentration RSD	0.7 %	0.9 %	148.6 %	1.1 %	0.7 %	1.4 %	57.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0126 ppm	3.2747 ppm	0.0044 ppm	0.3641 ppm	0.8083 ppm	0.0020 ppm	0.1551 ppm
Concentration per Run 1	-0.0143 ppm	3.2937 ppm	0.0049 ppm	0.3695 ppm	0.8216 ppm	0.0009 ppm	0.1534 ppm
Concentration per Run 2	-0.0128 ppm	3.2491 ppm	0.0042 ppm	0.3622 ppm	0.8108 ppm	0.0037 ppm	0.1550 ppm
Concentration per Run 3	-0.0107 ppm	3.2813 ppm	0.0042 ppm	0.3606 ppm	0.7925 ppm	0.0012 ppm	0.1568 ppm
Concentration RSD	14.5 %	0.7 %	8.8 %	1.3 %	1.8 %	78.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2757 ppm	98.1570 %	100.4677 %	88.6986 %	134.1781 %	137.2874 %	136.3239 %
Concentration per Run 1	0.2720 ppm	99.3292 %	99.8451 %	88.9136 %	135.5871 %	137.1458 %	136.4818 %
Concentration per Run 2	0.2765 ppm	97.9981 %	101.0467 %	88.1158 %	133.6692 %	137.6843 %	135.3418 %
Concentration per Run 3	0.2786 ppm	97.1438 %	100.5111 %	89.0665 %	133.2780 %	137.0320 %	137.1481 %
Concentration RSD	1.2 %	1.1 %	0.6 %	0.6 %	0.9 %	0.3 %	0.7 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2432990-04d2 WG1935652
Analysis started at: 6/19/2024 12:24:37 AM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0028 ppm	74.4824 ppm	0.0241 ppm	0.0073 ppm	0.6708 ppm	0.0038 ppm	100.8137 ppm
Concentration per Run 1	0.0026 ppm	74.1398 ppm	0.0250 ppm	0.0073 ppm	0.6642 ppm	0.0038 ppm	99.8943 ppm
Concentration per Run 2	0.0028 ppm	74.4773 ppm	0.0258 ppm	0.0065 ppm	0.6710 ppm	0.0038 ppm	101.2060 ppm
Concentration per Run 3	0.0029 ppm	74.8301 ppm	0.0215 ppm	0.0082 ppm	0.6771 ppm	0.0038 ppm	101.3408 ppm
Concentration RSD	6.5 %	0.5 %	9.5 %	11.8 %	1.0 %	0.7 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0031 ppm	0.0468 ppm	0.0957 ppm	0.1870 ppm	126.1759 ppm	3.3816 ppm	0.0680 ppm
Concentration per Run 1	-0.0031 ppm	0.0468 ppm	0.0955 ppm	0.1875 ppm	125.8743 ppm	3.3601 ppm	0.0684 ppm
Concentration per Run 2	-0.0033 ppm	0.0464 ppm	0.0968 ppm	0.1872 ppm	126.1041 ppm	3.3989 ppm	0.0678 ppm
Concentration per Run 3	-0.0030 ppm	0.0473 ppm	0.0946 ppm	0.1862 ppm	126.5494 ppm	3.3857 ppm	0.0679 ppm
Concentration RSD	5.2 %	0.9 %	1.1 %	0.4 %	0.3 %	0.6 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.3000 ppm	3.7475 ppm	0.0003 ppm	4.0505 ppm	0.0951 ppm	0.0547 ppm	-0.0016 ppm
Concentration per Run 1	42.4139 ppm	3.7069 ppm	0.0005 ppm	4.0302 ppm	0.0941 ppm	0.0547 ppm	-0.0019 ppm
Concentration per Run 2	42.3523 ppm	3.7711 ppm	-0.0003 ppm	4.0385 ppm	0.0965 ppm	0.0544 ppm	-0.0052 ppm
Concentration per Run 3	42.1338 ppm	3.7644 ppm	0.0006 ppm	4.0827 ppm	0.0946 ppm	0.0550 ppm	0.0024 ppm
Concentration RSD	0.3 %	0.9 %	166.2 %	0.7 %	1.3 %	0.6 %	240.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0087 ppm	3.5001 ppm	0.0038 ppm	0.1187 ppm	0.6393 ppm	0.0029 ppm	0.1588 ppm
Concentration per Run 1	-0.0070 ppm	3.4606 ppm	0.0046 ppm	0.1183 ppm	0.6373 ppm	0.0042 ppm	0.1600 ppm
Concentration per Run 2	-0.0104 ppm	3.5151 ppm	0.0036 ppm	0.1189 ppm	0.6473 ppm	0.0019 ppm	0.1593 ppm
Concentration per Run 3	-0.0086 ppm	3.5246 ppm	0.0033 ppm	0.1189 ppm	0.6332 ppm	0.0027 ppm	0.1571 ppm
Concentration RSD	19.6 %	1.0 %	17.7 %	0.3 %	1.1 %	40.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2311 ppm	100.7264 %	102.8327 %	92.6470 %	141.6311 %	144.2805 %	143.0962 %
Concentration per Run 1	0.2303 ppm	100.2532 %	103.0903 %	92.7186 %	142.0226 %	144.1842 %	143.4191 %
Concentration per Run 2	0.2336 ppm	100.1930 %	102.5231 %	92.3517 %	140.1194 %	143.4523 %	142.7207 %
Concentration per Run 3	0.2293 ppm	101.7328 %	102.8847 %	92.8707 %	142.7512 %	145.2052 %	143.1488 %
Concentration RSD	1.0 %	0.9 %	0.3 %	0.3 %	1.0 %	0.6 %	0.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: L2433008-05d2 WG1935652
Analysis started at: 6/19/2024 12:28:07 AM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0037 ppm	94.3424 ppm	0.0798 ppm	-0.0015 ppm	0.3711 ppm	0.0030 ppm	24.5215 ppm
Concentration per Run 1	0.0039 ppm	94.6001 ppm	0.0803 ppm	-0.0022 ppm	0.3728 ppm	0.0030 ppm	24.5942 ppm
Concentration per Run 2	0.0035 ppm	94.2543 ppm	0.0802 ppm	-0.0010 ppm	0.3704 ppm	0.0030 ppm	24.5206 ppm
Concentration per Run 3	0.0036 ppm	94.1727 ppm	0.0790 ppm	-0.0014 ppm	0.3703 ppm	0.0030 ppm	24.4497 ppm
Concentration RSD	6.4 %	0.2 %	0.9 %	40.9 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0051 ppm	0.0898 ppm	0.2556 ppm	0.4289 ppm	177.2105 ppm	11.1038 ppm	0.1206 ppm
Concentration per Run 1	-0.0051 ppm	0.0903 ppm	0.2529 ppm	0.4272 ppm	177.6067 ppm	11.1315 ppm	0.1216 ppm
Concentration per Run 2	-0.0053 ppm	0.0904 ppm	0.2566 ppm	0.4318 ppm	177.1641 ppm	11.0927 ppm	0.1201 ppm
Concentration per Run 3	-0.0050 ppm	0.0888 ppm	0.2574 ppm	0.4277 ppm	176.8606 ppm	11.0873 ppm	0.1202 ppm
Concentration RSD	2.9 %	1.0 %	0.9 %	0.6 %	0.2 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.8133 ppm	8.1691 ppm	0.0026 ppm	9.6024 ppm	0.2312 ppm	0.0909 ppm	-0.0080 ppm
Concentration per Run 1	46.5697 ppm	8.1547 ppm	0.0031 ppm	9.6516 ppm	0.2298 ppm	0.0900 ppm	-0.0091 ppm
Concentration per Run 2	47.1079 ppm	8.1942 ppm	0.0019 ppm	9.5923 ppm	0.2307 ppm	0.0914 ppm	-0.0064 ppm
Concentration per Run 3	46.7624 ppm	8.1583 ppm	0.0029 ppm	9.5634 ppm	0.2330 ppm	0.0914 ppm	-0.0084 ppm
Concentration RSD	0.6 %	0.3 %	24.1 %	0.5 %	0.7 %	0.9 %	17.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0070 ppm	4.8419 ppm	0.0053 ppm	0.0948 ppm	4.5344 ppm	0.0049 ppm	0.2913 ppm
Concentration per Run 1	-0.0053 ppm	4.9310 ppm	0.0062 ppm	0.0947 ppm	4.5040 ppm	0.0057 ppm	0.2897 ppm
Concentration per Run 2	-0.0076 ppm	4.8126 ppm	0.0042 ppm	0.0951 ppm	4.5409 ppm	0.0047 ppm	0.2936 ppm
Concentration per Run 3	-0.0081 ppm	4.7822 ppm	0.0055 ppm	0.0947 ppm	4.5583 ppm	0.0042 ppm	0.2905 ppm
Concentration RSD	21.3 %	1.6 %	19.2 %	0.2 %	0.6 %	15.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3622 ppm	102.0842 %	103.7177 %	96.5026 %	120.7389 %	121.8681 %	122.8509 %
Concentration per Run 1	0.3587 ppm	102.9383 %	103.2921 %	96.3055 %	121.7135 %	121.2130 %	122.6346 %
Concentration per Run 2	0.3645 ppm	101.6071 %	103.6659 %	96.2188 %	120.3541 %	122.0114 %	122.5993 %
Concentration per Run 3	0.3635 ppm	101.7071 %	104.1950 %	96.9834 %	120.1491 %	122.3799 %	123.3189 %
Concentration RSD	0.9 %	0.7 %	0.4 %	0.4 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:31:38 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4884 ppm	0.4632 ppm	0.4953 ppm	0.5048 ppm	0.5182 ppm	0.4956 ppm
Concentration per Run 1	0.5045 ppm	0.4997 ppm	0.4652 ppm	0.5000 ppm	0.5083 ppm	0.5215 ppm	0.5006 ppm
Concentration per Run 2	0.5027 ppm	0.4821 ppm	0.4639 ppm	0.4950 ppm	0.5048 ppm	0.5180 ppm	0.4921 ppm
Concentration per Run 3	0.5000 ppm	0.4833 ppm	0.4607 ppm	0.4908 ppm	0.5012 ppm	0.5151 ppm	0.4941 ppm
Recovery Percentage 1	100.486 %	97.673 %	92.648 %	99.052 %	100.954 %	103.638 %	99.127 %
Concentration RSD	0.5 %	2.0 %	0.5 %	0.9 %	0.7 %	0.6 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4914 ppm	0.5057 ppm	0.4901 ppm	0.4959 ppm	0.5264 ppm	5.1170 ppm	0.5068 ppm
Concentration per Run 1	0.4889 ppm	0.5039 ppm	0.4926 ppm	0.4976 ppm	0.5315 ppm	5.1773 ppm	0.5128 ppm
Concentration per Run 2	0.4908 ppm	0.5063 ppm	0.4893 ppm	0.4957 ppm	0.5236 ppm	5.1138 ppm	0.5052 ppm
Concentration per Run 3	0.4946 ppm	0.5068 ppm	0.4884 ppm	0.4944 ppm	0.5241 ppm	5.0599 ppm	0.5022 ppm
Recovery Percentage 1	98.290 %	101.132 %	98.023 %	99.180 %	105.283 %	102.340 %	101.351 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.3 %	0.8 %	1.1 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4859 ppm	0.4922 ppm	0.4950 ppm	9.9153 ppm	0.5140 ppm	0.5000 ppm	0.4893 ppm
Concentration per Run 1	0.4888 ppm	0.4949 ppm	0.4905 ppm	9.9893 ppm	0.5156 ppm	0.5038 ppm	0.4886 ppm
Concentration per Run 2	0.4843 ppm	0.4899 ppm	0.4977 ppm	9.8496 ppm	0.5145 ppm	0.4977 ppm	0.4915 ppm
Concentration per Run 3	0.4847 ppm	0.4917 ppm	0.4969 ppm	9.9069 ppm	0.5118 ppm	0.4985 ppm	0.4877 ppm
Recovery Percentage 1	97.184 %	98.433 %	99.007 %	99.153 %	102.791 %	100.003 %	97.862 %
Concentration RSD	0.5 %	0.5 %	0.8 %	0.7 %	0.4 %	0.7 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4843 ppm	5.5799 ppm	0.5240 ppm	0.5053 ppm	0.5094 ppm	0.4947 ppm	0.4890 ppm
Concentration per Run 1	0.4884 ppm	5.5601 ppm	0.5258 ppm	0.5084 ppm	0.5123 ppm	0.4969 ppm	0.4913 ppm
Concentration per Run 2	0.4808 ppm	5.6065 ppm	0.5250 ppm	0.5042 ppm	0.5090 ppm	0.4942 ppm	0.4884 ppm
Concentration per Run 3	0.4836 ppm	5.5731 ppm	0.5213 ppm	0.5033 ppm	0.5070 ppm	0.4929 ppm	0.4874 ppm
Recovery Percentage 1	96.850 %	106.284 %	104.808 %	101.055 %	101.880 %	98.938 %	97.805 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.5 %	0.5 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5064 ppm	101.5661 %	98.0855 %	100.3648 %	101.0809 %	97.2794 %	102.0898 %
Concentration per Run 1	0.5087 ppm	101.3275 %	96.8103 %	100.2157 %	100.6970 %	96.2307 %	102.0382 %
Concentration per Run 2	0.5071 ppm	101.6313 %	98.4502 %	100.2429 %	101.0230 %	97.3656 %	102.1035 %
Concentration per Run 3	0.5034 ppm	101.7395 %	98.9959 %	100.6356 %	101.5227 %	98.2418 %	102.1277 %
Recovery Percentage 1	101.281 %						
Concentration RSD	0.5 %	0.2 %	1.2 %	0.2 %	0.4 %	1.0 %	0.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:35:08 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0067 ppm	-0.0016 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0025 ppm
Concentration per Run 1	-0.0002 ppm	-0.0084 ppm	-0.0022 ppm	0.0004 ppm	0.0005 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 2	-0.0003 ppm	-0.0064 ppm	-0.0024 ppm	0.0010 ppm	0.0006 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 3	-0.0006 ppm	-0.0054 ppm	-0.0002 ppm	-0.0008 ppm	0.0004 ppm	0.0001 ppm	-0.0049 ppm
Recovery Percentage 1	-5.407 %	-6.721 %	-32.285 %	0.730 %	5.132 %	2.655 %	-2.485 %
Concentration RSD	65.1 %	22.6 %	75.7 %	408.0 %	19.8 %	39.9 %	85.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0020 ppm	-0.0919 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.1040 ppm	0.0011 ppm
Concentration per Run 2	0.0003 ppm	-0.0009 ppm	0.0006 ppm	0.0002 ppm	0.0018 ppm	-0.0941 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0032 ppm	-0.0777 ppm	0.0010 ppm
Recovery Percentage 1	2.956 %	-1.818 %	4.105 %	1.998 %	3.946 %	-3.677 %	23.489 %
Concentration RSD	76.0 %	145.5 %	75.4 %	242.1 %	60.8 %	14.4 %	19.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0000 ppm	0.0022 ppm	-0.0169 ppm	0.0001 ppm	-0.0003 ppm	-0.0027 ppm
Concentration per Run 1	-0.0032 ppm	-0.0002 ppm	0.0025 ppm	-0.0125 ppm	0.0004 ppm	-0.0001 ppm	-0.0049 ppm
Concentration per Run 2	-0.0010 ppm	0.0002 ppm	0.0024 ppm	-0.0207 ppm	-0.0004 ppm	-0.0011 ppm	-0.0025 ppm
Concentration per Run 3	-0.0028 ppm	0.0000 ppm	0.0018 ppm	-0.0174 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm
Recovery Percentage 1	-2.332 %	0.039 %	4.498 %	-0.844 %	0.222 %	-3.259 %	-5.382 %
Concentration RSD	49.4 %	5,645.1 %	15.7 %	24.4 %	728.9 %	210.0 %	77.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0046 ppm	0.0012 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0021 ppm	-0.0047 ppm	0.0003 ppm	0.0001 ppm	0.0014 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	0.0016 ppm	-0.0064 ppm	0.0009 ppm	0.0000 ppm	0.0015 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	-0.0027 ppm	-0.0027 ppm	0.0024 ppm	0.0000 ppm	0.0014 ppm	0.0015 ppm	0.0001 ppm
Recovery Percentage 1	3.767 %	-0.926 %	2.375 %	0.351 %	14.174 %	-0.186 %	0.811 %
Concentration RSD	700.2 %	39.7 %	89.7 %	127.0 %	3.0 %	3,523.8 %	343.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	100.3662 %	98.9846 %	101.3793 %	101.3885 %	98.4690 %	102.7628 %
Concentration per Run 1	0.0004 ppm	100.2337 %	98.6826 %	101.9477 %	101.0626 %	98.0139 %	103.2956 %
Concentration per Run 2	0.0007 ppm	100.9909 %	98.5923 %	102.0209 %	102.2129 %	98.0610 %	103.6370 %
Concentration per Run 3	0.0004 ppm	99.8741 %	99.6787 %	100.1693 %	100.8899 %	99.3320 %	101.3559 %
Recovery Percentage 1	10.014 %						
Concentration RSD	41.0 %	0.6 %	0.6 %	1.0 %	0.7 %	0.8 %	1.2 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:38:39 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5033 ppm	0.4771 ppm	0.4621 ppm	0.4939 ppm	0.4978 ppm	0.5127 ppm	0.4890 ppm
Concentration per Run 1	0.5032 ppm	0.4827 ppm	0.4632 ppm	0.4945 ppm	0.4963 ppm	0.5124 ppm	0.4928 ppm
Concentration per Run 2	0.5044 ppm	0.4789 ppm	0.4574 ppm	0.4977 ppm	0.4999 ppm	0.5149 ppm	0.4858 ppm
Concentration per Run 3	0.5023 ppm	0.4697 ppm	0.4658 ppm	0.4896 ppm	0.4973 ppm	0.5108 ppm	0.4885 ppm
Recovery Percentage 1	100.660 %	95.418 %	92.428 %	98.786 %	99.566 %	102.540 %	97.801 %
Concentration RSD	0.2 %	1.4 %	0.9 %	0.8 %	0.4 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5023 ppm	0.5115 ppm	0.4931 ppm	0.4974 ppm	0.5079 ppm	5.0384 ppm	0.4979 ppm
Concentration per Run 1	0.5049 ppm	0.5143 ppm	0.4922 ppm	0.4999 ppm	0.5069 ppm	5.0443 ppm	0.4914 ppm
Concentration per Run 2	0.5104 ppm	0.5164 ppm	0.4980 ppm	0.4956 ppm	0.5056 ppm	5.0345 ppm	0.5043 ppm
Concentration per Run 3	0.4916 ppm	0.5038 ppm	0.4892 ppm	0.4967 ppm	0.5112 ppm	5.0365 ppm	0.4979 ppm
Recovery Percentage 1	100.460 %	102.297 %	98.624 %	99.483 %	101.583 %	100.769 %	99.573 %
Concentration RSD	1.9 %	1.3 %	0.9 %	0.4 %	0.6 %	0.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4894 ppm	0.4851 ppm	0.4958 ppm	9.8756 ppm	0.5182 ppm	0.4956 ppm	0.4943 ppm
Concentration per Run 1	0.4880 ppm	0.4841 ppm	0.4911 ppm	9.7982 ppm	0.5173 ppm	0.4960 ppm	0.4968 ppm
Concentration per Run 2	0.4931 ppm	0.4873 ppm	0.5004 ppm	9.9966 ppm	0.5229 ppm	0.4926 ppm	0.4889 ppm
Concentration per Run 3	0.4870 ppm	0.4839 ppm	0.4958 ppm	9.8319 ppm	0.5145 ppm	0.4981 ppm	0.4970 ppm
Recovery Percentage 1	97.870 %	97.015 %	99.155 %	98.756 %	103.646 %	99.114 %	98.853 %
Concentration RSD	0.7 %	0.4 %	0.9 %	1.1 %	0.8 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4821 ppm	5.5979 ppm	0.5281 ppm	0.4987 ppm	0.5092 ppm	0.4894 ppm	0.4915 ppm
Concentration per Run 1	0.4777 ppm	5.5917 ppm	0.5279 ppm	0.4979 ppm	0.5092 ppm	0.4894 ppm	0.4916 ppm
Concentration per Run 2	0.4774 ppm	5.6289 ppm	0.5322 ppm	0.5010 ppm	0.5124 ppm	0.4875 ppm	0.4950 ppm
Concentration per Run 3	0.4911 ppm	5.5730 ppm	0.5242 ppm	0.4971 ppm	0.5058 ppm	0.4912 ppm	0.4880 ppm
Recovery Percentage 1	96.412 %	106.626 %	105.618 %	99.731 %	101.832 %	97.878 %	98.302 %
Concentration RSD	1.6 %	0.5 %	0.8 %	0.4 %	0.6 %	0.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5106 ppm	101.1878 %	100.8584 %	101.7527 %	100.3506 %	99.9920 %	103.4474 %
Concentration per Run 1	0.5097 ppm	100.7095 %	100.8710 %	101.5465 %	99.9880 %	100.4817 %	103.0162 %
Concentration per Run 2	0.5156 ppm	99.7259 %	101.1406 %	102.1735 %	98.7370 %	99.8173 %	103.9036 %
Concentration per Run 3	0.5065 ppm	103.1282 %	100.5635 %	101.5381 %	102.3267 %	99.6771 %	103.4223 %
Recovery Percentage 1	102.118 %						
Concentration RSD	0.9 %	1.7 %	0.3 %	0.4 %	1.8 %	0.4 %	0.4 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:42:08 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0093 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm	-0.0040 ppm
Concentration per Run 1	-0.0001 ppm	-0.0148 ppm	-0.0011 ppm	-0.0005 ppm	0.0004 ppm	0.0001 ppm	-0.0073 ppm
Concentration per Run 2	0.0002 ppm	-0.0082 ppm	-0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0016 ppm
Concentration per Run 3	-0.0003 ppm	-0.0050 ppm	0.0007 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0030 ppm
Recovery Percentage 1	-0.979 %	-9.322 %	-5.631 %	-0.388 %	4.610 %	2.901 %	-3.978 %
Concentration RSD	309.8 %	53.4 %	319.2 %	297.9 %	13.7 %	40.9 %	75.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0018 ppm	-0.0583 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0003 ppm	0.0004 ppm	0.0029 ppm	-0.0577 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	-0.0621 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0019 ppm	-0.0551 ppm	0.0002 ppm
Recovery Percentage 1	0.414 %	-1.631 %	1.925 %	2.598 %	3.690 %	-2.332 %	10.526 %
Concentration RSD	433.7 %	132.5 %	81.6 %	38.1 %	57.8 %	6.1 %	141.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0031 ppm	0.0001 ppm	0.0021 ppm	-0.0127 ppm	-0.0002 ppm	-0.0001 ppm	-0.0031 ppm
Concentration per Run 1	-0.0039 ppm	0.0001 ppm	0.0024 ppm	-0.0093 ppm	-0.0005 ppm	0.0007 ppm	-0.0058 ppm
Concentration per Run 2	-0.0017 ppm	0.0002 ppm	0.0019 ppm	-0.0133 ppm	-0.0002 ppm	-0.0005 ppm	-0.0026 ppm
Concentration per Run 3	-0.0037 ppm	-0.0001 ppm	0.0021 ppm	-0.0154 ppm	0.0001 ppm	-0.0004 ppm	-0.0009 ppm
Recovery Percentage 1	-3.123 %	0.613 %	4.254 %	-0.633 %	-0.787 %	-0.712 %	-6.176 %
Concentration RSD	38.2 %	202.7 %	12.0 %	24.4 %	143.9 %	920.9 %	80.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0051 ppm	0.0008 ppm	0.0000 ppm	0.0013 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0017 ppm	-0.0061 ppm	0.0017 ppm	-0.0001 ppm	0.0010 ppm	-0.0014 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	-0.0022 ppm	0.0005 ppm	0.0000 ppm	0.0013 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 3	-0.0005 ppm	-0.0071 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm	-0.0002 ppm	0.0004 ppm
Recovery Percentage 1	-9.117 %	-1.027 %	1.512 %	-0.069 %	12.769 %	-2.421 %	-0.227 %
Concentration RSD	71.7 %	51.2 %	112.7 %	857.9 %	19.6 %	172.9 %	1,688.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	101.8651 %	99.1017 %	102.4911 %	102.8101 %	98.7593 %	103.9251 %
Concentration per Run 1	0.0003 ppm	102.7455 %	98.7912 %	101.8266 %	103.6844 %	98.5471 %	103.1878 %
Concentration per Run 2	0.0005 ppm	103.0514 %	98.5167 %	102.4229 %	103.8207 %	98.4858 %	103.4843 %
Concentration per Run 3	0.0007 ppm	99.7982 %	99.9970 %	103.2239 %	100.9253 %	99.2451 %	105.1032 %
Recovery Percentage 1	10.401 %						
Concentration RSD	34.8 %	1.8 %	0.8 %	0.7 %	1.6 %	0.4 %	1.0 %

ICP DataTrace 9

6/19/2024 6:01:55 AM

LabBook: WG1935555_06182024T9B.imexp

Sample: LLOQ
Analysis started at: 6/19/2024 12:45:39 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0069 ppm	0.0964 ppm	0.0022 ppm	0.0285 ppm	0.0104 ppm	0.0050 ppm	0.0948 ppm
Concentration per Run 1	0.0068 ppm	0.1025 ppm	0.0008 ppm	0.0267 ppm	0.0103 ppm	0.0050 ppm	0.0973 ppm
Concentration per Run 2	0.0067 ppm	0.0905 ppm	0.0026 ppm	0.0292 ppm	0.0104 ppm	0.0049 ppm	0.0916 ppm
Concentration per Run 3	0.0073 ppm	0.0961 ppm	0.0031 ppm	0.0294 ppm	0.0106 ppm	0.0050 ppm	0.0956 ppm
Recovery Percentage 1	99.214 %	96.399 %	43.582 %	94.920 %	104.330 %	99.717 %	94.842 %
Concentration RSD	5.0 %	6.2 %	55.1 %	5.3 %	1.4 %	1.2 %	3.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0040 ppm	0.0200 ppm	0.0099 ppm	0.0107 ppm	0.0520 ppm	2.5371 ppm	0.0120 ppm
Concentration per Run 1	0.0039 ppm	0.0194 ppm	0.0100 ppm	0.0107 ppm	0.0517 ppm	2.5440 ppm	0.0129 ppm
Concentration per Run 2	0.0042 ppm	0.0209 ppm	0.0097 ppm	0.0109 ppm	0.0520 ppm	2.5566 ppm	0.0101 ppm
Concentration per Run 3	0.0040 ppm	0.0199 ppm	0.0099 ppm	0.0104 ppm	0.0524 ppm	2.5105 ppm	0.0131 ppm
Recovery Percentage 1	101.045 %	100.147 %	98.848 %	106.617 %	104.080 %	101.482 %	
Concentration RSD	3.3 %	3.8 %	1.2 %	2.6 %	0.7 %	0.9 %	14.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1001 ppm	0.0101 ppm	0.0508 ppm	2.0355 ppm	0.0259 ppm	0.0098 ppm	0.0486 ppm
Concentration per Run 1	0.0995 ppm	0.0102 ppm	0.0499 ppm	2.0284 ppm	0.0255 ppm	0.0080 ppm	0.0499 ppm
Concentration per Run 2	0.1010 ppm	0.0103 ppm	0.0507 ppm	2.0361 ppm	0.0263 ppm	0.0100 ppm	0.0478 ppm
Concentration per Run 3	0.0999 ppm	0.0099 ppm	0.0519 ppm	2.0421 ppm	0.0261 ppm	0.0113 ppm	0.0481 ppm
Recovery Percentage 1	100.104 %	101.424 %	101.687 %	101.776 %	103.765 %	98.086 %	97.230 %
Concentration RSD	0.8 %	1.9 %	1.9 %	0.3 %	1.5 %	16.9 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0108 ppm	0.5187 ppm	0.0531 ppm	0.0094 ppm	0.0512 ppm	0.0187 ppm	0.0096 ppm
Concentration per Run 1	0.0111 ppm	0.5147 ppm	0.0534 ppm	0.0094 ppm	0.0512 ppm	0.0194 ppm	0.0097 ppm
Concentration per Run 2	0.0099 ppm	0.5223 ppm	0.0526 ppm	0.0093 ppm	0.0514 ppm	0.0183 ppm	0.0099 ppm
Concentration per Run 3	0.0113 ppm	0.5190 ppm	0.0534 ppm	0.0094 ppm	0.0509 ppm	0.0184 ppm	0.0093 ppm
Recovery Percentage 1	107.596 %	103.733 %	106.275 %	93.883 %	102.358 %	93.294 %	96.473 %
Concentration RSD	7.1 %	0.7 %	0.8 %	0.5 %	0.5 %	3.2 %	2.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0054 ppm	102.6993 %	100.3864 %	103.3726 %	102.4357 %	99.4028 %	104.3632 %
Concentration per Run 1	0.0054 ppm	102.7810 %	99.4200 %	102.1432 %	102.3425 %	98.0330 %	102.9800 %
Concentration per Run 2	0.0053 ppm	101.9564 %	101.8459 %	104.2716 %	101.8150 %	101.3148 %	105.0439 %
Concentration per Run 3	0.0055 ppm	103.3607 %	99.8933 %	103.7029 %	103.1497 %	98.8606 %	105.0656 %
Recovery Percentage 1	107.823 %						
Concentration RSD	1.6 %	0.7 %	1.3 %	1.1 %	0.7 %	1.7 %	1.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Blank JMF Trace8
Analysis started at: 6/18/2024 4:36:47 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.5 %	-0.8 %	-1.3 %	0.1 %	0.3 %	-0.4 %	-0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.9 %	0.1 %	-0.2 %	0.0 %	-0.1 %	0.2 %	-1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.2 %	0.1 %	1.3 %	0.3 %	0.3 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-2.1 %	0.4 %	0.4 %	-0.2 %	-0.3 %	-0.4 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	3.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICAL
Analysis started at: 6/18/2024 4:40:46 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9998 ppm	24.9599 ppm	0.9921 ppm	0.9872 ppm	0.9969 ppm	0.9986 ppm	9.9818 ppm
Concentration per Run 2	0.9976 ppm	24.9894 ppm	1.0055 ppm	1.0044 ppm	1.0011 ppm	1.0001 ppm	10.0075 ppm
Concentration per Run 3	1.0027 ppm	25.0507 ppm	1.0024 ppm	1.0084 ppm	1.0020 ppm	1.0014 ppm	10.0107 ppm
Concentration RSD	0.3 %	0.2 %	0.7 %	1.1 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9960 ppm	0.9919 ppm	0.9972 ppm	0.9947 ppm	24.9644 ppm	34.9455 ppm	0.9986 ppm
Concentration per Run 2	1.0004 ppm	1.0022 ppm	1.0024 ppm	0.9994 ppm	25.0462 ppm	35.0567 ppm	1.0012 ppm
Concentration per Run 3	1.0036 ppm	1.0059 ppm	1.0004 ppm	1.0059 ppm	24.9893 ppm	34.9978 ppm	1.0002 ppm
Concentration RSD	0.4 %	0.7 %	0.3 %	0.6 %	0.2 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9784 ppm	0.9983 ppm	0.9789 ppm	24.9271 ppm	0.9903 ppm	0.9923 ppm	0.9848 ppm
Concentration per Run 2	9.9990 ppm	1.0005 ppm	0.9998 ppm	24.9989 ppm	1.0039 ppm	1.0018 ppm	1.0026 ppm
Concentration per Run 3	10.0226 ppm	1.0013 ppm	1.0213 ppm	25.0740 ppm	1.0057 ppm	1.0058 ppm	1.0126 ppm
Concentration RSD	0.2 %	0.2 %	2.1 %	0.3 %	0.8 %	0.7 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9897 ppm	9.9329 ppm	0.9881 ppm	0.9990 ppm	0.9926 ppm	0.9930 ppm	0.9982 ppm
Concentration per Run 2	1.0052 ppm	10.0016 ppm	1.0043 ppm	1.0008 ppm	1.0024 ppm	1.0029 ppm	1.0020 ppm
Concentration per Run 3	1.0051 ppm	10.0655 ppm	1.0076 ppm	1.0002 ppm	1.0050 ppm	1.0041 ppm	0.9998 ppm
Concentration RSD	0.9 %	0.7 %	1.0 %	0.1 %	0.7 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	98.8997 %	102.3810 %	97.2580 %	94.2288 %	98.9095 %	95.9595 %
Concentration per Run 1	0.9898 ppm	98.9978 %	102.8766 %	97.7374 %	93.9212 %	99.6456 %	96.1673 %
Concentration per Run 2	1.0036 ppm	98.9253 %	102.1141 %	97.5505 %	94.2655 %	98.5902 %	96.3729 %
Concentration per Run 3	1.0066 ppm	98.7762 %	102.1522 %	96.4863 %	94.4996 %	98.4927 %	95.3383 %
Concentration RSD	0.9 %	0.1 %	0.4 %	0.7 %	0.3 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:44:41 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5090 ppm	0.4987 ppm	0.4918 ppm	0.5036 ppm	0.5058 ppm	0.5153 ppm	0.4992 ppm
Concentration per Run 1	0.5051 ppm	0.5031 ppm	0.4876 ppm	0.5009 ppm	0.5050 ppm	0.5132 ppm	0.5025 ppm
Concentration per Run 2	0.5097 ppm	0.4983 ppm	0.4923 ppm	0.5026 ppm	0.5071 ppm	0.5181 ppm	0.4951 ppm
Concentration per Run 3	0.5120 ppm	0.4947 ppm	0.4956 ppm	0.5074 ppm	0.5054 ppm	0.5145 ppm	0.5000 ppm
Recovery Percentage 1	101.794 %	99.737 %	98.366 %	100.728 %	101.163 %	103.051 %	99.837 %
Concentration RSD	0.7 %	0.8 %	0.8 %	0.7 %	0.2 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5145 ppm	0.5178 ppm	0.5036 ppm	0.4972 ppm	0.5165 ppm	5.2610 ppm	0.6339 ppm
Concentration per Run 1	0.5130 ppm	0.5181 ppm	0.5006 ppm	0.4988 ppm	0.5153 ppm	5.2726 ppm	0.6352 ppm
Concentration per Run 2	0.5152 ppm	0.5185 ppm	0.5038 ppm	0.4955 ppm	0.5170 ppm	5.2562 ppm	0.6349 ppm
Concentration per Run 3	0.5155 ppm	0.5168 ppm	0.5064 ppm	0.4972 ppm	0.5171 ppm	5.2544 ppm	0.6315 ppm
Recovery Percentage 1	102.910 %	103.561 %	100.719 %	99.430 %	103.295 %	105.221 %	126.773 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.2 %	0.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5008 ppm	0.5021 ppm	0.5124 ppm	10.2808 ppm	0.5221 ppm	0.5045 ppm	0.5060 ppm
Concentration per Run 1	0.4987 ppm	0.5039 ppm	0.5031 ppm	10.3030 ppm	0.5176 ppm	0.5036 ppm	0.4980 ppm
Concentration per Run 2	0.5011 ppm	0.5009 ppm	0.5133 ppm	10.2672 ppm	0.5223 ppm	0.5048 ppm	0.5088 ppm
Concentration per Run 3	0.5027 ppm	0.5016 ppm	0.5210 ppm	10.2721 ppm	0.5263 ppm	0.5052 ppm	0.5112 ppm
Recovery Percentage 1	100.159 %	100.430 %	102.488 %	102.808 %	104.414 %	100.909 %	101.201 %
Concentration RSD	0.4 %	0.3 %	1.8 %	0.2 %	0.8 %	0.2 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5000 ppm	5.6619 ppm	0.5177 ppm	0.4958 ppm	0.5137 ppm	0.5014 ppm	0.5018 ppm
Concentration per Run 1	0.4969 ppm	5.6452 ppm	0.5134 ppm	0.4934 ppm	0.5112 ppm	0.4999 ppm	0.4995 ppm
Concentration per Run 2	0.4964 ppm	5.6561 ppm	0.5179 ppm	0.4980 ppm	0.5144 ppm	0.5018 ppm	0.5027 ppm
Concentration per Run 3	0.5066 ppm	5.6843 ppm	0.5219 ppm	0.4961 ppm	0.5155 ppm	0.5026 ppm	0.5031 ppm
Recovery Percentage 1	99.994 %	107.845 %	103.542 %	99.164 %	102.744 %	100.285 %	100.352 %
Concentration RSD	1.2 %	0.4 %	0.8 %	0.5 %	0.4 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5209 ppm	98.1478 %	102.9878 %	98.2732 %	95.7351 %	100.3985 %	96.8538 %
Concentration per Run 1	0.5168 ppm	97.9251 %	101.9532 %	98.0347 %	95.7010 %	99.4869 %	96.5290 %
Concentration per Run 2	0.5205 ppm	98.1238 %	103.6313 %	98.5020 %	95.6286 %	100.9423 %	97.2459 %
Concentration per Run 3	0.5254 ppm	98.3945 %	103.3790 %	98.2830 %	95.8758 %	100.7664 %	96.7864 %
Recovery Percentage 1	104.180 %						
Concentration RSD	0.8 %	0.2 %	0.9 %	0.2 %	0.1 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICB
Analysis started at: 6/18/2024 4:48:38 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0016 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0008 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run 3	0.0004 ppm	-0.0072 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0029 ppm
Recovery Percentage 1	2.976 %	-1.601 %	-13.272 %	-0.481 %	1.326 %	2.796 %	-1.945 %
Concentration RSD	100.4 %	315.3 %	81.3 %	466.4 %	100.9 %	17.4 %	58.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0088 ppm	-0.0137 ppm	0.0020 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	-0.0005 ppm	0.0003 ppm	0.0093 ppm	0.0047 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0093 ppm	-0.0284 ppm	0.0037 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0078 ppm	-0.0173 ppm	0.0007 ppm
Recovery Percentage 1	-0.021 %	-0.737 %	-2.369 %	3.413 %	17.609 %	-0.547 %	20.490 %
Concentration RSD	7,832.3 %	228.6 %	159.1 %	12.1 %	10.1 %	123.2 %	75.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0003 ppm	-0.0004 ppm	0.0036 ppm	0.0004 ppm	-0.0005 ppm	-0.0018 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	-0.0016 ppm	-0.0020 ppm
Concentration per Run 2	-0.0022 ppm	0.0000 ppm	-0.0008 ppm	0.0095 ppm	0.0008 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	-0.0005 ppm	0.0007 ppm	-0.0002 ppm	-0.0009 ppm	-0.0028 ppm
Recovery Percentage 1	-1.306 %	2.785 %	-0.724 %	0.178 %	1.794 %	-5.201 %	-3.515 %
Concentration RSD	80.3 %	87.3 %	155.9 %	144.3 %	117.0 %	256.0 %	69.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	-0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	-0.0032 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0013 ppm	0.0014 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	1.039 %	0.045 %	1.969 %	0.240 %	-2.642 %	-4.591 %	0.816 %
Concentration RSD	654.5 %	409.0 %	32.4 %	91.5 %	56.5 %	215.9 %	149.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	92.2111 %	99.2978 %	95.5251 %	97.4423 %	101.5148 %	99.4479 %
Concentration per Run 1	0.0008 ppm	90.5049 %	99.0479 %	95.0656 %	96.6155 %	101.6312 %	99.5406 %
Concentration per Run 2	0.0011 ppm	92.7906 %	99.5318 %	95.4717 %	98.0280 %	101.6649 %	99.2132 %
Concentration per Run 3	0.0011 ppm	93.3377 %	99.3135 %	96.0382 %	97.6834 %	101.2483 %	99.5898 %
Recovery Percentage 1	20.211 %						
Concentration RSD	16.2 %	1.6 %	0.2 %	0.5 %	0.8 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICV
Analysis started at: 6/18/2024 4:52:35 AM
Rack 0
Vial 10
Comment Postion adjusted

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5221 ppm	0.5118 ppm	0.5038 ppm	0.5184 ppm	0.5212 ppm	0.5273 ppm	0.5116 ppm
Concentration per Run 1	0.5174 ppm	0.5165 ppm	0.5004 ppm	0.5110 ppm	0.5191 ppm	0.5250 ppm	0.5114 ppm
Concentration per Run 2	0.5241 ppm	0.5102 ppm	0.5084 ppm	0.5208 ppm	0.5243 ppm	0.5283 ppm	0.5109 ppm
Concentration per Run 3	0.5249 ppm	0.5088 ppm	0.5027 ppm	0.5233 ppm	0.5203 ppm	0.5287 ppm	0.5127 ppm
Recovery Percentage 1	104.429 %	102.367 %	100.766 %	103.674 %	104.244 %	105.463 %	102.325 %
Concentration RSD	0.8 %	0.8 %	0.8 %	1.3 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5274 ppm	0.5308 ppm	0.5154 ppm	0.5090 ppm	0.5332 ppm	5.4148 ppm	0.5147 ppm
Concentration per Run 1	0.5255 ppm	0.5289 ppm	0.5128 ppm	0.5067 ppm	0.5326 ppm	5.4371 ppm	0.5158 ppm
Concentration per Run 2	0.5279 ppm	0.5308 ppm	0.5166 ppm	0.5089 ppm	0.5333 ppm	5.4260 ppm	0.5151 ppm
Concentration per Run 3	0.5288 ppm	0.5328 ppm	0.5167 ppm	0.5114 ppm	0.5337 ppm	5.3813 ppm	0.5133 ppm
Recovery Percentage 1	105.474 %	106.161 %	103.076 %	101.798 %	106.637 %	108.296 %	102.947 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.5 %	0.1 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5138 ppm	0.5152 ppm	0.5230 ppm	10.5260 ppm	0.5370 ppm	0.5169 ppm	0.5205 ppm
Concentration per Run 1	0.5120 ppm	0.5145 ppm	0.5138 ppm	10.5387 ppm	0.5370 ppm	0.5174 ppm	0.5191 ppm
Concentration per Run 2	0.5159 ppm	0.5150 ppm	0.5246 ppm	10.4870 ppm	0.5388 ppm	0.5160 ppm	0.5175 ppm
Concentration per Run 3	0.5136 ppm	0.5162 ppm	0.5305 ppm	10.5524 ppm	0.5353 ppm	0.5173 ppm	0.5250 ppm
Recovery Percentage 1	102.770 %	103.048 %	104.598 %	105.260 %	107.404 %	103.383 %	104.107 %
Concentration RSD	0.4 %	0.2 %	1.6 %	0.3 %	0.3 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5097 ppm	5.4005 ppm	0.5448 ppm	0.5148 ppm	0.5247 ppm	0.5157 ppm	0.5137 ppm
Concentration per Run 1	0.5035 ppm	5.3652 ppm	0.5432 ppm	0.5131 ppm	0.5220 ppm	0.5157 ppm	0.5105 ppm
Concentration per Run 2	0.5126 ppm	5.4068 ppm	0.5457 ppm	0.5161 ppm	0.5260 ppm	0.5168 ppm	0.5153 ppm
Concentration per Run 3	0.5130 ppm	5.4294 ppm	0.5455 ppm	0.5153 ppm	0.5262 ppm	0.5145 ppm	0.5154 ppm
Recovery Percentage 1	101.940 %	102.866 %	108.961 %	102.969 %	104.948 %	103.137 %	102.750 %
Concentration RSD	1.1 %	0.6 %	0.3 %	0.3 %	0.5 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5372 ppm	97.8027 %	102.1765 %	97.7774 %	94.7126 %	99.6663 %	96.1595 %
Concentration per Run 1	0.5371 ppm	97.7867 %	101.8159 %	98.2049 %	94.5555 %	99.4397 %	96.0280 %
Concentration per Run 2	0.5386 ppm	98.1909 %	102.7660 %	97.6004 %	95.0521 %	100.0808 %	96.1896 %
Concentration per Run 3	0.5359 ppm	97.4304 %	101.9476 %	97.5268 %	94.5303 %	99.4784 %	96.2609 %
Recovery Percentage 1	107.446 %						
Concentration RSD	0.3 %	0.4 %	0.5 %	0.4 %	0.3 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICB
Analysis started at: 6/18/2024 4:56:35 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0028 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0038 ppm
Concentration per Run 1	-0.0003 ppm	-0.0010 ppm	-0.0022 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0052 ppm
Concentration per Run 2	0.0001 ppm	-0.0082 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0014 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0045 ppm
Recovery Percentage 1	-1.351 %	-2.754 %	-9.675 %	0.249 %	0.212 %	2.541 %	-3.811 %
Concentration RSD	187.5 %	174.7 %	610.5 %	1,014.0 %	168.8 %	31.9 %	48.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0093 ppm	-0.0180 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0098 ppm	-0.0243 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0102 ppm	0.0050 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0078 ppm	-0.0346 ppm	0.0002 ppm
Recovery Percentage 1	0.721 %	0.032 %	-1.219 %	2.891 %	18.568 %	-0.720 %	-0.442 %
Concentration RSD	447.2 %	2,304.8 %	182.8 %	18.2 %	14.1 %	114.1 %	3,088.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0001 ppm	-0.0007 ppm	-0.0057 ppm	0.0007 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0007 ppm	-0.0071 ppm	0.0009 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 2	-0.0023 ppm	0.0001 ppm	-0.0005 ppm	-0.0070 ppm	0.0008 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0018 ppm	0.0000 ppm	-0.0008 ppm	-0.0030 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm
Recovery Percentage 1	-1.360 %	0.933 %	-1.419 %	-0.286 %	2.702 %	0.268 %	2.155 %
Concentration RSD	92.9 %	59.5 %	21.3 %	40.6 %	53.7 %	2,038.3 %	65.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0016 ppm	0.0005 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 3	-0.0004 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Recovery Percentage 1	2.735 %	0.138 %	0.364 %	0.208 %	-0.395 %	-1.072 %	-1.459 %
Concentration RSD	429.4 %	166.6 %	348.6 %	352.4 %	850.9 %	281.1 %	170.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	91.1466 %	98.3847 %	94.6791 %	96.5029 %	100.8776 %	98.9856 %
Concentration per Run 1	0.0008 ppm	90.6231 %	97.2682 %	93.9421 %	96.8517 %	99.9440 %	98.6329 %
Concentration per Run 2	0.0008 ppm	91.1242 %	99.1399 %	95.1779 %	96.4340 %	101.8641 %	99.5711 %
Concentration per Run 3	0.0007 ppm	91.6926 %	98.7462 %	94.9174 %	96.2229 %	100.8247 %	98.7527 %
Recovery Percentage 1	14.923 %						
Concentration RSD	9.3 %	0.6 %	1.0 %	0.7 %	0.3 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LLOQ
Analysis started at: 6/18/2024 5:34:20 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0077 ppm	0.1035 ppm	0.0050 ppm	0.0311 ppm	0.0107 ppm	0.0051 ppm	0.0991 ppm
Concentration per Run 1	0.0078 ppm	0.0970 ppm	0.0047 ppm	0.0328 ppm	0.0107 ppm	0.0051 ppm	0.0983 ppm
Concentration per Run 2	0.0075 ppm	0.1073 ppm	0.0043 ppm	0.0299 ppm	0.0108 ppm	0.0051 ppm	0.0996 ppm
Concentration per Run 3	0.0080 ppm	0.1062 ppm	0.0059 ppm	0.0307 ppm	0.0106 ppm	0.0051 ppm	0.0996 ppm
Recovery Percentage 1	110.637 %	103.485 %	99.902 %	103.746 %	107.005 %	101.956 %	99.148 %
Concentration RSD	3.0 %	5.4 %	16.5 %	4.7 %	0.6 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0207 ppm	0.0108 ppm	0.0107 ppm	0.0527 ppm	2.7973 ppm	**0.0125 ppm**
Concentration per Run 1	0.0042 ppm	0.0208 ppm	0.0107 ppm	0.0104 ppm	0.0535 ppm	2.7823 ppm	0.0121 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0108 ppm	0.0109 ppm	0.0520 ppm	2.7680 ppm	0.0125 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0107 ppm	0.0109 ppm	0.0524 ppm	2.8415 ppm	0.0128 ppm
Recovery Percentage 1	83.866 %	103.714 %	107.586 %	107.006 %	105.302 %	111.891 %	124.771 %
Concentration RSD	1.3 %	0.5 %	0.7 %	2.7 %	1.5 %	1.4 %	**2.7 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1061 ppm	0.0109 ppm	0.0517 ppm	2.2278 ppm	0.0267 ppm	0.0109 ppm	0.0507 ppm
Concentration per Run 1	0.1062 ppm	0.0109 ppm	0.0512 ppm	2.2291 ppm	0.0270 ppm	0.0104 ppm	0.0484 ppm
Concentration per Run 2	0.1071 ppm	0.0108 ppm	0.0516 ppm	2.2313 ppm	0.0280 ppm	0.0115 ppm	0.0518 ppm
Concentration per Run 3	0.1050 ppm	0.0110 ppm	0.0522 ppm	2.2232 ppm	0.0251 ppm	0.0108 ppm	0.0517 ppm
Recovery Percentage 1	106.110 %	109.075 %	103.344 %	111.392 %	106.922 %	109.137 %	101.329 %
Concentration RSD	1.0 %	0.9 %	1.0 %	0.2 %	5.5 %	4.9 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0074 ppm**	0.5472 ppm	0.0549 ppm	0.0102 ppm	0.0525 ppm	0.0196 ppm	0.0101 ppm
Concentration per Run 1	0.0070 ppm	0.5445 ppm	0.0549 ppm	0.0102 ppm	0.0525 ppm	0.0191 ppm	0.0099 ppm
Concentration per Run 2	0.0074 ppm	0.5497 ppm	0.0552 ppm	0.0102 ppm	0.0526 ppm	0.0195 ppm	0.0100 ppm
Concentration per Run 3	0.0079 ppm	0.5474 ppm	0.0546 ppm	0.0103 ppm	0.0523 ppm	0.0202 ppm	0.0103 ppm
Recovery Percentage 1	74.395 %	109.437 %	109.852 %	102.168 %	104.978 %	98.157 %	100.611 %
Concentration RSD	**6.2 %**	0.5 %	0.5 %	0.5 %	0.3 %	2.8 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0057 ppm	98.9009 %	100.5405 %	99.4512 %	99.2358 %	98.8687 %	98.9622 %
Concentration per Run 1	0.0057 ppm	98.3028 %	100.4907 %	99.6090 %	99.2987 %	98.8874 %	99.5438 %
Concentration per Run 2	0.0060 ppm	98.7204 %	100.3490 %	99.3804 %	98.8931 %	98.4678 %	98.8041 %
Concentration per Run 3	0.0053 ppm	99.6796 %	100.7819 %	99.3642 %	99.5155 %	99.2510 %	98.5386 %
Recovery Percentage 1	113.225 %						
Concentration RSD	5.3 %	0.7 %	0.2 %	0.1 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: ICSA
Analysis started at: 6/18/2024 5:39:34 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	491.1323 ppm	-0.0007 ppm	0.0017 ppm	0.0021 ppm	0.0000 ppm	464.8571 ppm
Concentration per Run 1	0.0004 ppm	490.7738 ppm	-0.0028 ppm	-0.0002 ppm	0.0021 ppm	0.0000 ppm	464.1038 ppm
Concentration per Run 2	-0.0001 ppm	490.3928 ppm	0.0022 ppm	0.0024 ppm	0.0022 ppm	0.0000 ppm	464.8869 ppm
Concentration per Run 3	0.0005 ppm	492.2305 ppm	-0.0016 ppm	0.0028 ppm	0.0019 ppm	0.0000 ppm	465.5807 ppm
Recovery Percentage 1	4.158 %	491,132.346 %	-24.025 %	5.602 %	20.707 %	0.664 %	464,857.123 %
Concentration RSD	103.3 %	0.2 %	363.1 %	96.6 %	7.1 %	88.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0010 ppm	-0.0009 ppm	-0.0010 ppm	183.9834 ppm	-0.0046 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	-0.0019 ppm	-0.0008 ppm	-0.0005 ppm	183.1993 ppm	0.0023 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	-0.0005 ppm	-0.0009 ppm	-0.0011 ppm	184.4078 ppm	-0.0203 ppm	0.0006 ppm
Concentration per Run 3	-0.0005 ppm	-0.0007 ppm	-0.0010 ppm	-0.0013 ppm	184.3431 ppm	0.0042 ppm	0.0000 ppm
Recovery Percentage 1	-6.080 %	-5.158 %	-8.999 %	-9.596 %	367,966.802 %	-0.185 %	2.593 %
Concentration RSD	73.7 %	70.4 %	11.1 %	41.4 %	0.4 %	294.2 %	134.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	474.7364 ppm	0.0018 ppm	-0.0035 ppm	0.0210 ppm	-0.0003 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	472.0787 ppm	0.0019 ppm	-0.0032 ppm	0.0206 ppm	-0.0006 ppm	-0.0008 ppm	-0.0049 ppm
Concentration per Run 2	474.0769 ppm	0.0018 ppm	-0.0027 ppm	0.0162 ppm	-0.0009 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 3	478.0536 ppm	0.0018 ppm	-0.0047 ppm	0.0261 ppm	0.0005 ppm	0.0023 ppm	0.0046 ppm
Recovery Percentage 1	474,736.388 %	18.110 %	-7.003 %	1.048 %	-1.340 %	6.978 %	-0.903 %
Concentration RSD	0.6 %	3.3 %	30.2 %	23.8 %	213.3 %	218.5 %	1,050.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0177 ppm	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 1	-0.0016 ppm	0.0171 ppm	0.0003 ppm	0.0003 ppm	-0.0005 ppm	0.0032 ppm	0.0006 ppm
Concentration per Run 2	-0.0006 ppm	0.0163 ppm	-0.0006 ppm	0.0005 ppm	-0.0010 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 3	-0.0048 ppm	0.0198 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0018 ppm	0.0008 ppm
Recovery Percentage 1	-23.367 %	3.546 %	0.003 %	3.107 %	-6.001 %	8.724 %	6.284 %
Concentration RSD	94.2 %	10.3 %	42,658.9 %	42.2 %	53.2 %	81.5 %	35.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	90.7847 %	96.1784 %	82.7558 %	86.2868 %	93.9758 %	86.5529 %
Concentration per Run 1	0.0005 ppm	90.6900 %	96.8994 %	82.6943 %	86.0080 %	94.6728 %	86.3449 %
Concentration per Run 2	-0.0001 ppm	90.9283 %	95.8648 %	83.0810 %	86.4090 %	93.4496 %	86.8505 %
Concentration per Run 3	-0.0003 ppm	90.7358 %	95.7709 %	82.4920 %	86.4433 %	93.8049 %	86.4633 %
Recovery Percentage 1	0.307 %						
Concentration RSD	2,626.7 %	0.1 %	0.7 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LLOQ 0.01ppm
Analysis started at: 6/18/2024 6:05:59 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0110 ppm	-0.0030 ppm	0.0095 ppm	0.0109 ppm	0.0107 ppm	0.0104 ppm	0.0135 ppm
Concentration per Run 1	0.0110 ppm	0.0024 ppm	0.0077 ppm	0.0099 ppm	0.0108 ppm	0.0105 ppm	0.0124 ppm
Concentration per Run 2	0.0110 ppm	-0.0050 ppm	0.0109 ppm	0.0106 ppm	0.0106 ppm	0.0105 ppm	0.0122 ppm
Concentration per Run 3	0.0110 ppm	-0.0065 ppm	0.0098 ppm	0.0123 ppm	0.0107 ppm	0.0104 ppm	0.0160 ppm
Recovery Percentage 1	0.000 %	0.000 %	94.819 %	109.252 %	107.140 %	0.000 %	0.000 %
Concentration RSD	0.4 %	157.8 %	17.1 %	11.7 %	1.1 %	0.6 %	15.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0110 ppm	0.0107 ppm	0.0107 ppm	0.0105 ppm	0.0121 ppm	0.1259 ppm	0.0115 ppm
Concentration per Run 1	0.0110 ppm	0.0112 ppm	0.0108 ppm	0.0110 ppm	0.0098 ppm	0.1391 ppm	0.0129 ppm
Concentration per Run 2	0.0110 ppm	0.0101 ppm	0.0109 ppm	0.0103 ppm	0.0140 ppm	0.1383 ppm	0.0132 ppm
Concentration per Run 3	0.0109 ppm	0.0107 ppm	0.0104 ppm	0.0103 ppm	0.0127 ppm	0.1003 ppm	0.0083 ppm
Recovery Percentage 1	0.000 %	107.048 %	107.304 %	105.083 %	0.000 %	0.000 %	115.044 %
Concentration RSD	0.6 %	5.2 %	2.3 %	3.6 %	17.8 %	17.6 %	23.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0105 ppm	0.0106 ppm	0.0076 ppm	0.2342 ppm	0.0118 ppm	0.0115 ppm	0.0096 ppm
Concentration per Run 1	0.0101 ppm	0.0105 ppm	0.0076 ppm	0.2351 ppm	0.0117 ppm	0.0105 ppm	0.0088 ppm
Concentration per Run 2	0.0110 ppm	0.0106 ppm	0.0074 ppm	0.2333 ppm	0.0123 ppm	0.0122 ppm	0.0114 ppm
Concentration per Run 3	0.0104 ppm	0.0106 ppm	0.0079 ppm	0.2341 ppm	0.0115 ppm	0.0117 ppm	0.0086 ppm
Recovery Percentage 1	0.000 %	105.709 %	76.201 %	0.000 %	118.040 %	114.667 %	0.000 %
Concentration RSD	4.5 %	0.6 %	2.9 %	0.4 %	3.7 %	7.8 %	16.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0096 ppm	0.1132 ppm	0.0108 ppm	0.0108 ppm	0.0107 ppm	0.0107 ppm	0.0108 ppm
Concentration per Run 1	0.0090 ppm	0.1169 ppm	0.0099 ppm	0.0108 ppm	0.0109 ppm	0.0104 ppm	0.0108 ppm
Concentration per Run 2	0.0095 ppm	0.1109 ppm	0.0114 ppm	0.0108 ppm	0.0107 ppm	0.0112 ppm	0.0109 ppm
Concentration per Run 3	0.0102 ppm	0.1120 ppm	0.0111 ppm	0.0108 ppm	0.0104 ppm	0.0107 ppm	0.0109 ppm
Recovery Percentage 1	95.888 %	0.000 %	107.918 %	108.021 %	106.573 %	107.454 %	108.488 %
Concentration RSD	6.0 %	2.8 %	7.7 %	0.1 %	2.5 %	3.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0117 ppm	96.0598 %	98.8742 %	98.2961 %	102.2533 %	101.4049 %	101.9945 %
Concentration per Run 1	0.0121 ppm	95.0903 %	98.5100 %	98.0374 %	102.0679 %	101.4263 %	101.9805 %
Concentration per Run 2	0.0116 ppm	96.4168 %	99.6371 %	98.2650 %	102.4928 %	102.1878 %	101.8910 %
Concentration per Run 3	0.0115 ppm	96.6725 %	98.4755 %	98.5859 %	102.1992 %	100.6006 %	102.1122 %
Recovery Percentage 1	117.295 %						
Concentration RSD	2.8 %	0.9 %	0.7 %	0.3 %	0.2 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 500 Fe pass
Analysis started at: 6/18/2024 6:10:06 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0474 ppm	0.0003 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	-0.0005 ppm	0.0430 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0006 ppm	0.0519 ppm	0.0015 ppm	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 3	-0.0005 ppm	0.0472 ppm	-0.0010 ppm	0.0037 ppm	0.0005 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	9.0 %	9.4 %	387.4 %	74.2 %	62.3 %	934.6 %	41.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0025 ppm	-0.0008 ppm	-0.0010 ppm	457.4613 ppm	-0.0429 ppm	-0.0003 ppm
Concentration per Run 1	0.0003 ppm	-0.0031 ppm	-0.0022 ppm	-0.0010 ppm	456.6740 ppm	-0.0337 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	-0.0020 ppm	0.0022 ppm	-0.0015 ppm	457.1552 ppm	-0.0559 ppm	-0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0024 ppm	-0.0023 ppm	-0.0005 ppm	458.5547 ppm	-0.0391 ppm	0.0007 ppm
Concentration RSD	209.8 %	21.8 %	335.2 %	51.5 %	0.2 %	27.0 %	799.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0037 ppm	0.0007 ppm	-0.0055 ppm	0.0071 ppm	-0.0007 ppm	0.0001 ppm	0.0106 ppm
Concentration per Run 1	0.0046 ppm	0.0007 ppm	-0.0057 ppm	0.0113 ppm	-0.0011 ppm	-0.0002 ppm	0.0113 ppm
Concentration per Run 2	0.0042 ppm	0.0008 ppm	-0.0052 ppm	0.0016 ppm	-0.0003 ppm	0.0002 ppm	0.0109 ppm
Concentration per Run 3	0.0023 ppm	0.0006 ppm	-0.0055 ppm	0.0083 ppm	-0.0009 ppm	0.0004 ppm	0.0096 ppm
Concentration RSD	32.9 %	7.8 %	3.9 %	70.1 %	56.6 %	216.8 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0026 ppm	0.0008 ppm	0.0004 ppm	-0.0004 ppm	-0.0009 ppm	0.0019 ppm
Concentration per Run 1	-0.0006 ppm	0.0022 ppm	0.0007 ppm	0.0004 ppm	-0.0005 ppm	-0.0023 ppm	0.0021 ppm
Concentration per Run 2	-0.0007 ppm	0.0038 ppm	0.0010 ppm	0.0004 ppm	-0.0005 ppm	-0.0004 ppm	0.0020 ppm
Concentration per Run 3	-0.0028 ppm	0.0019 ppm	0.0007 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0016 ppm
Concentration RSD	87.8 %	39.8 %	23.3 %	28.6 %	18.5 %	133.7 %	11.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	99.9493 %	102.8860 %	94.7900 %	95.9084 %	100.2994 %	97.6434 %
Concentration per Run 1	-0.0005 ppm	100.1166 %	102.8272 %	95.5784 %	95.6304 %	100.6209 %	97.9843 %
Concentration per Run 2	-0.0005 ppm	100.8498 %	103.1461 %	94.8650 %	96.8641 %	100.1633 %	97.8981 %
Concentration per Run 3	-0.0005 ppm	98.8816 %	102.6847 %	93.9267 %	95.2309 %	100.1139 %	97.0478 %
Concentration RSD	3.4 %	1.0 %	0.2 %	0.9 %	0.9 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 1000 Ca pass
Analysis started at: 6/18/2024 6:14:01 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0021 ppm	-0.0002 ppm	0.0004 ppm	0.0024 ppm	0.0000 ppm	981.0501 ppm
Concentration per Run 1	-0.0010 ppm	-0.0027 ppm	-0.0019 ppm	0.0027 ppm	0.0023 ppm	0.0000 ppm	982.8873 ppm
Concentration per Run 2	0.0007 ppm	-0.0018 ppm	0.0018 ppm	-0.0010 ppm	0.0025 ppm	-0.0001 ppm	977.5361 ppm
Concentration per Run 3	-0.0001 ppm	-0.0018 ppm	-0.0004 ppm	-0.0005 ppm	0.0025 ppm	0.0000 ppm	982.7270 ppm
Concentration RSD	550.9 %	25.0 %	1,085.7 %	527.0 %	4.5 %	270.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0010 ppm	0.0157 ppm	0.0314 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0001 ppm	0.0009 ppm	0.0013 ppm	0.0168 ppm	0.0378 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0011 ppm	0.0144 ppm	0.0033 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0158 ppm	0.0530 ppm	-0.0003 ppm
Concentration RSD	40.3 %	64.2 %	25.0 %	47.6 %	7.9 %	81.2 %	3,684.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0026 ppm	0.0007 ppm	-0.0029 ppm	0.0158 ppm	0.0007 ppm	0.0017 ppm	-0.0036 ppm
Concentration per Run 1	0.0027 ppm	0.0006 ppm	-0.0024 ppm	0.0109 ppm	0.0008 ppm	0.0025 ppm	-0.0034 ppm
Concentration per Run 2	0.0030 ppm	0.0010 ppm	-0.0031 ppm	0.0222 ppm	0.0011 ppm	0.0013 ppm	-0.0014 ppm
Concentration per Run 3	0.0020 ppm	0.0006 ppm	-0.0031 ppm	0.0144 ppm	0.0001 ppm	0.0014 ppm	-0.0061 ppm
Concentration RSD	21.7 %	30.8 %	14.2 %	36.5 %	71.9 %	38.1 %	64.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	0.0148 ppm	-0.0009 ppm	-0.0001 ppm	-0.0012 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0137 ppm	-0.0017 ppm	-0.0002 ppm	-0.0013 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0014 ppm	0.0195 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 3	0.0033 ppm	0.0114 ppm	-0.0013 ppm	-0.0001 ppm	-0.0011 ppm	-0.0019 ppm	0.0002 ppm
Concentration RSD	189.2 %	28.0 %	108.4 %	76.7 %	11.8 %	50.5 %	73.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	85.2980 %	94.8138 %	83.2474 %	89.6549 %	96.3053 %	89.5217 %
Concentration per Run 1	0.0022 ppm	84.3898 %	94.0975 %	82.3930 %	89.7293 %	95.6528 %	89.1440 %
Concentration per Run 2	0.0024 ppm	85.2934 %	95.5323 %	83.2452 %	89.5048 %	96.8876 %	89.5891 %
Concentration per Run 3	0.0024 ppm	86.2108 %	94.8117 %	84.1038 %	89.7306 %	96.3754 %	89.8320 %
Concentration RSD	4.7 %	1.1 %	0.8 %	1.0 %	0.1 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: SIC Multi
Analysis started at: 6/18/2024 6:28:11 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0016 ppm	0.0011 ppm	0.0024 ppm	0.0002 ppm	-0.0014 ppm	0.0013 ppm
Concentration per Run 1	-0.0011 ppm	-0.0046 ppm	-0.0013 ppm	0.0028 ppm	0.0002 ppm	-0.0013 ppm	0.0038 ppm
Concentration per Run 2	-0.0003 ppm	0.0095 ppm	0.0017 ppm	0.0017 ppm	0.0003 ppm	-0.0013 ppm	-0.0033 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0028 ppm	0.0029 ppm	0.0002 ppm	-0.0015 ppm	0.0034 ppm
Recovery Percentage 1	-9.737 %	1.585 %	35.979 %	8.124 %	2.232 %	-34.406 %	1.280 %
Concentration RSD	63.5 %	455.7 %	195.8 %	27.9 %	22.8 %	11.0 %	310.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	19.8533 ppm	-0.0014 ppm	0.0131 ppm	-0.0058 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	19.7991 ppm	-0.0014 ppm	0.0133 ppm	0.0034 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	19.8515 ppm	-0.0016 ppm	0.0118 ppm	-0.0253 ppm	-0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0011 ppm	19.9093 ppm	-0.0013 ppm	0.0142 ppm	0.0046 ppm	0.0013 ppm
Recovery Percentage 1	0.158 %	-3.159 %	198,533.005 %	-14.357 %	26.232 %	-0.231 %	2.693 %
Concentration RSD	756.2 %	68.8 %	0.3 %	13.3 %	9.4 %	293.9 %	377.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0026 ppm	20.0992 ppm	-0.0021 ppm	0.0078 ppm	0.0004 ppm	-0.0032 ppm	-0.0012 ppm
Concentration per Run 1	-0.0033 ppm	20.0723 ppm	-0.0022 ppm	0.0130 ppm	0.0001 ppm	-0.0025 ppm	-0.0007 ppm
Concentration per Run 2	-0.0019 ppm	20.1142 ppm	-0.0020 ppm	0.0037 ppm	-0.0001 ppm	-0.0033 ppm	-0.0005 ppm
Concentration per Run 3	-0.0025 ppm	20.1110 ppm	-0.0021 ppm	0.0066 ppm	0.0011 ppm	-0.0038 ppm	-0.0026 ppm
Recovery Percentage 1	-2.604 %	200,991.795 %	-4.167 %	0.390 %	1.441 %	-31.990 %	-2.495 %
Concentration RSD	26.8 %	0.1 %	4.5 %	61.3 %	172.3 %	20.3 %	90.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	-0.0114 ppm	-0.0044 ppm	0.0005 ppm	19.5042 ppm	-0.0076 ppm	10.0204 ppm
Concentration per Run 1	-0.0018 ppm	-0.0292 ppm	-0.0038 ppm	0.0005 ppm	19.3916 ppm	-0.0082 ppm	9.9317 ppm
Concentration per Run 2	-0.0048 ppm	-0.0141 ppm	-0.0049 ppm	0.0005 ppm	19.5143 ppm	-0.0076 ppm	10.0347 ppm
Concentration per Run 3	-0.0046 ppm	0.0090 ppm	-0.0045 ppm	0.0006 ppm	19.6066 ppm	-0.0072 ppm	10.0948 ppm
Recovery Percentage 1	-37.573 %	-2.286 %	-8.772 %	5.353 %	195,041.693 %	-38.174 %	100,204.113 %
Concentration RSD	44.6 %	168.4 %	12.0 %	5.6 %	0.6 %	6.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	100.9181 %	105.1860 %	86.4704 %	97.6161 %	102.6872 %	99.5438 %
Concentration per Run 1	0.0003 ppm	101.5090 %	104.9401 %	86.4575 %	97.4725 %	102.4358 %	99.1911 %
Concentration per Run 2	0.0004 ppm	100.6074 %	104.8187 %	86.7382 %	97.5235 %	102.4733 %	100.0394 %
Concentration per Run 3	0.0003 ppm	100.6378 %	105.7992 %	86.2156 %	97.8521 %	103.1526 %	99.4009 %
Recovery Percentage 1	6.688 %						
Concentration RSD	24.9 %	0.5 %	0.5 %	0.3 %	0.2 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 40 Mn pass
Analysis started at: 6/18/2024 6:32:15 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0112 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0004 ppm	-0.0162 ppm	0.0014 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0059 ppm
Concentration per Run 2	-0.0010 ppm	-0.0009 ppm	-0.0020 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 3	-0.0009 ppm	-0.0166 ppm	0.0012 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	43.4 %	79.7 %	866.0 %	248.0 %	1,870.0 %	85.9 %	38.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0013 ppm	-0.0028 ppm	-0.0038 ppm	0.0429 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0013 ppm	-0.0029 ppm	-0.0034 ppm	0.0206 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	-0.0027 ppm	-0.0053 ppm	0.0491 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0013 ppm	-0.0029 ppm	-0.0028 ppm	0.0591 ppm	-0.0010 ppm
Concentration RSD	909.0 %	58.9 %	6.4 %	4.9 %	34.6 %	46.6 %	57.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0204 ppm	41.5234 ppm	-0.0026 ppm	0.0041 ppm	0.0006 ppm	0.0005 ppm	-0.0017 ppm
Concentration per Run 1	0.0212 ppm	41.5762 ppm	-0.0022 ppm	0.0054 ppm	0.0019 ppm	0.0020 ppm	-0.0061 ppm
Concentration per Run 2	0.0210 ppm	41.4797 ppm	-0.0028 ppm	0.0063 ppm	-0.0002 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 3	0.0190 ppm	41.5143 ppm	-0.0029 ppm	0.0006 ppm	0.0000 ppm	-0.0007 ppm	0.0023 ppm
Concentration RSD	6.0 %	0.1 %	14.7 %	74.2 %	208.0 %	267.2 %	240.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	0.0025 ppm	-0.0007 ppm	0.0001 ppm	0.0019 ppm	-0.0055 ppm	-0.0017 ppm
Concentration per Run 1	-0.0009 ppm	0.0023 ppm	-0.0006 ppm	0.0001 ppm	0.0022 ppm	-0.0052 ppm	-0.0013 ppm
Concentration per Run 2	-0.0052 ppm	0.0028 ppm	-0.0017 ppm	0.0001 ppm	0.0019 ppm	-0.0066 ppm	-0.0018 ppm
Concentration per Run 3	-0.0054 ppm	0.0024 ppm	0.0003 ppm	0.0002 ppm	0.0017 ppm	-0.0046 ppm	-0.0019 ppm
Concentration RSD	66.9 %	9.7 %	153.8 %	34.8 %	13.6 %	19.0 %	19.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.5020 %	100.5102 %	95.6981 %	98.0941 %	102.9178 %	99.9453 %
Concentration per Run 1	0.0006 ppm	91.5431 %	100.3927 %	95.6718 %	97.9131 %	102.9945 %	100.4391 %
Concentration per Run 2	0.0003 ppm	92.5530 %	100.9770 %	95.5932 %	97.8370 %	103.3753 %	99.8017 %
Concentration per Run 3	0.0007 ppm	93.4099 %	100.1610 %	95.8292 %	98.5322 %	102.3837 %	99.5949 %
Concentration RSD	36.7 %	1.0 %	0.4 %	0.1 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR Check
Analysis started at: 6/18/2024 6:36:12 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	0.0886 ppm	21.4039 ppm	19.1538 ppm	19.5148 ppm	4.9566 ppm	0.0131 ppm
Concentration per Run 1	0.0011 ppm	0.0892 ppm	21.3788 ppm	18.8846 ppm	19.4391 ppm	4.9503 ppm	0.0123 ppm
Concentration per Run 2	0.0020 ppm	0.0880 ppm	21.3332 ppm	19.2328 ppm	19.4784 ppm	4.9606 ppm	0.0139 ppm
Concentration per Run 3	0.0021 ppm	0.0886 ppm	21.4997 ppm	19.3441 ppm	19.6268 ppm	4.9589 ppm	0.0130 ppm
Recovery Percentage 1			107.019 %	95.769 %	97.574 %		0.000 %
Concentration RSD	30.3 %	0.7 %	0.4 %	1.3 %	0.5 %	0.1 %	6.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8497 ppm	4.8992 ppm	0.0006 ppm	19.5862 ppm	0.0328 ppm	502.0381 ppm	17.9876 ppm
Concentration per Run 1	4.7877 ppm	4.8311 ppm	0.0005 ppm	19.3567 ppm	0.0333 ppm	497.8509 ppm	17.8912 ppm
Concentration per Run 2	4.8644 ppm	4.9186 ppm	0.0011 ppm	19.6077 ppm	0.0353 ppm	500.3449 ppm	17.9296 ppm
Concentration per Run 3	4.8970 ppm	4.9479 ppm	0.0003 ppm	19.7941 ppm	0.0298 ppm	507.9186 ppm	18.1421 ppm
Recovery Percentage 1	96.994 %	97.984 %		97.931 %	0.000 %	100.408 %	89.938 %
Concentration RSD	1.2 %	1.2 %	67.4 %	1.1 %	8.4 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0043 ppm	0.0007 ppm	4.8447 ppm	413.6209 ppm	9.7421 ppm	50.6296 ppm	4.8708 ppm
Concentration per Run 1	-0.0059 ppm	0.0006 ppm	4.7068 ppm	413.8999 ppm	9.6559 ppm	50.5413 ppm	4.7504 ppm
Concentration per Run 2	-0.0037 ppm	0.0008 ppm	4.8567 ppm	413.1725 ppm	9.7538 ppm	50.6307 ppm	4.8977 ppm
Concentration per Run 3	-0.0033 ppm	0.0007 ppm	4.9706 ppm	413.7904 ppm	9.8166 ppm	50.7168 ppm	4.9644 ppm
Recovery Percentage 1		0.000 %	96.894 %	82.724 %	97.421 %	101.259 %	97.416 %
Concentration RSD	32.9 %	14.0 %	2.7 %	0.1 %	0.8 %	0.2 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.1514 ppm	21.6922 ppm	7.6349 ppm	4.8096 ppm	0.0074 ppm	4.9570 ppm	-0.0008 ppm
Concentration per Run 1	5.1522 ppm	21.2949 ppm	7.5649 ppm	4.7914 ppm	0.0073 ppm	4.9595 ppm	-0.0005 ppm
Concentration per Run 2	5.1415 ppm	21.7348 ppm	7.6425 ppm	4.8186 ppm	0.0073 ppm	4.9501 ppm	-0.0008 ppm
Concentration per Run 3	5.1605 ppm	22.0470 ppm	7.6975 ppm	4.8188 ppm	0.0077 ppm	4.9613 ppm	-0.0011 ppm
Recovery Percentage 1	103.028 %	108.461 %	76.349 %	96.192 %	0.000 %	99.140 %	0.000 %
Concentration RSD	0.2 %	1.7 %	0.9 %	0.3 %	2.7 %	0.1 %	35.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.9663 ppm	95.6114 %	101.0005 %	90.5607 %	90.4860 %	97.0793 %	88.8158 %
Concentration per Run 1	18.8207 ppm	96.3982 %	101.7567 %	90.8640 %	90.2768 %	98.1649 %	89.0046 %
Concentration per Run 2	18.9803 ppm	95.6316 %	101.4242 %	90.3555 %	90.7586 %	97.4144 %	88.7094 %
Concentration per Run 3	19.0978 ppm	94.8043 %	99.8207 %	90.4625 %	90.4227 %	95.6587 %	88.7335 %
Recovery Percentage 1	94.831 %						
Concentration RSD	0.7 %	0.8 %	1.0 %	0.3 %	0.3 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/18/2024 6:40:10 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0022 ppm	0.0077 ppm	0.0097 ppm	0.0005 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 1	0.0003 ppm	-0.0089 ppm	0.0080 ppm	0.0098 ppm	0.0004 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 2	0.0003 ppm	-0.0099 ppm	0.0077 ppm	0.0105 ppm	0.0004 ppm	0.0001 ppm	0.0081 ppm
Concentration per Run 3	0.0005 ppm	0.0122 ppm	0.0074 ppm	0.0090 ppm	0.0006 ppm	0.0002 ppm	0.0082 ppm
Concentration RSD	28.1 %	569.8 %	4.3 %	7.6 %	15.9 %	41.7 %	51.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.7059 ppm	0.0031 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0007 ppm	0.7285 ppm	0.0019 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.6979 ppm	0.0048 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0014 ppm	0.0015 ppm	0.6915 ppm	0.0025 ppm
Concentration RSD	77.6 %	132.1 %	1,048.9 %	53.0 %	883.8 %	2.8 %	50.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0217 ppm	477.3799 ppm	0.0009 ppm	0.0025 ppm	0.0154 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0232 ppm	477.8939 ppm	0.0011 ppm	0.0024 ppm	0.0185 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0209 ppm	479.7157 ppm	0.0008 ppm	0.0020 ppm	0.0136 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0210 ppm	474.5302 ppm	0.0008 ppm	0.0030 ppm	0.0140 ppm
Concentration RSD	819.6 %	44.9 %	5.9 %	0.6 %	15.2 %	20.3 %	17.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0047 ppm	0.0020 ppm	0.0003 ppm	-0.0003 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0058 ppm	0.0020 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0027 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0042 ppm	0.0013 ppm	0.0002 ppm	-0.0001 ppm	0.0019 ppm	0.0000 ppm
Concentration RSD	83.7 %	21.7 %	35.8 %	37.9 %	67.7 %	154.5 %	165.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	89.8414 %	98.2076 %	91.0338 %	93.3216 %	98.4943 %	94.6771 %
Concentration per Run 1	0.0013 ppm	89.0388 %	97.7798 %	90.7617 %	93.3236 %	98.3411 %	94.7061 %
Concentration per Run 2	0.0012 ppm	90.1021 %	97.8041 %	90.9475 %	93.5873 %	98.2109 %	94.8999 %
Concentration per Run 3	0.0014 ppm	90.3832 %	99.0391 %	91.3922 %	93.0539 %	98.9308 %	94.4253 %
Concentration RSD	6.7 %	0.8 %	0.7 %	0.4 %	0.3 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: IEC 20 Ti +Si -Tl
Analysis started at: 6/18/2024 6:44:07 AM
Rack 1
Vial 6
Comment LDR +/-10% As OK

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0093 ppm	0.0030 ppm	0.0041 ppm	0.0000 ppm	-0.0009 ppm	0.0037 ppm
Concentration per Run 1	-0.0003 ppm	-0.0211 ppm	0.0027 ppm	0.0038 ppm	0.0001 ppm	-0.0009 ppm	0.0018 ppm
Concentration per Run 2	-0.0004 ppm	-0.0046 ppm	0.0024 ppm	0.0033 ppm	-0.0001 ppm	-0.0011 ppm	0.0047 ppm
Concentration per Run 3	-0.0008 ppm	-0.0022 ppm	0.0040 ppm	0.0051 ppm	0.0001 ppm	-0.0009 ppm	0.0044 ppm
Recovery Percentage 1	-6.795 %	-9.273 %	100.813 %	13.547 %	0.379 %	-23.511 %	3.662 %
Concentration RSD	58.4 %	110.9 %	28.1 %	22.6 %	212.8 %	11.8 %	43.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0009 ppm	-0.0016 ppm	0.1281 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	-0.0011 ppm	-0.0027 ppm	0.1375 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0007 ppm	0.0005 ppm	0.1158 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0008 ppm	-0.0008 ppm	-0.0027 ppm	0.1311 ppm	0.0007 ppm
Recovery Percentage 1	-1.372 %	-0.779 %	8.107 %	-8.716 %	-3.292 %	5.125 %	5.358 %
Concentration RSD	62.1 %	189.9 %	18.0 %	23.6 %	112.3 %	8.7 %	367.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0123 ppm	0.0002 ppm	0.0009 ppm	0.1142 ppm	0.0002 ppm	-0.0021 ppm	0.0076 ppm
Concentration per Run 1	-0.0124 ppm	0.0003 ppm	0.0010 ppm	0.1195 ppm	0.0000 ppm	-0.0028 ppm	0.0069 ppm
Concentration per Run 2	-0.0110 ppm	0.0002 ppm	0.0013 ppm	0.1036 ppm	0.0000 ppm	-0.0016 ppm	0.0083 ppm
Concentration per Run 3	-0.0135 ppm	0.0001 ppm	0.0004 ppm	0.1197 ppm	0.0006 ppm	-0.0020 ppm	0.0075 ppm
Recovery Percentage 1	-12.286 %	2.012 %	1.758 %	5.712 %	0.842 %	-21.138 %	15.180 %
Concentration RSD	10.3 %	34.7 %	52.2 %	8.1 %	162.7 %	29.9 %	9.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0039 ppm	-0.0039 ppm	0.0001 ppm	19.4561 ppm	0.0007 ppm	0.0027 ppm
Concentration per Run 1	0.0007 ppm	-0.0171 ppm	-0.0053 ppm	0.0002 ppm	19.3328 ppm	-0.0006 ppm	0.0026 ppm
Concentration per Run 2	-0.0020 ppm	-0.0041 ppm	-0.0029 ppm	0.0001 ppm	19.4941 ppm	0.0005 ppm	0.0026 ppm
Concentration per Run 3	0.0012 ppm	0.0096 ppm	-0.0035 ppm	0.0001 ppm	19.5414 ppm	0.0021 ppm	0.0029 ppm
Recovery Percentage 1	-0.268 %	-0.772 %	-7.769 %	0.976 %	194,561.155 %	3.340 %	26.970 %
Concentration RSD	6,356.2 %	347.0 %	32.5 %	48.5 %	0.6 %	199.0 %	6.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	101.8378 %	106.5910 %	87.5938 %	98.9847 %	104.1861 %	100.5254 %
Concentration per Run 1	0.0004 ppm	101.9373 %	106.6534 %	87.8273 %	98.9354 %	104.0626 %	100.5795 %
Concentration per Run 2	0.0004 ppm	101.7834 %	107.0277 %	87.6054 %	98.9814 %	104.8564 %	100.5825 %
Concentration per Run 3	0.0003 ppm	101.7927 %	106.0920 %	87.3489 %	99.0372 %	103.6394 %	100.4142 %
Recovery Percentage 1	8.008 %						
Concentration RSD	16.5 %	0.1 %	0.4 %	0.3 %	0.1 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: IEC 10 V +TI
Analysis started at: 6/18/2024 6:58:34 AM
Rack 1
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	-0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0123 ppm
Concentration per Run 1	0.0006 ppm	0.0004 ppm	0.0009 ppm	-0.0004 ppm	0.0002 ppm	-0.0002 ppm	0.0168 ppm
Concentration per Run 2	0.0006 ppm	-0.0077 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0114 ppm
Concentration per Run 3	0.0007 ppm	0.0006 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0088 ppm
Recovery Percentage 1	8.745 %	-2.195 %	-3.217 %	-0.071 %	0.040 %	-4.857 %	12.334 %
Concentration RSD	13.0 %	215.3 %	978.3 %	1,346.1 %	3,321.1 %	17.3 %	33.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0008 ppm	0.0049 ppm	0.0536 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0067 ppm	0.0489 ppm	0.0020 ppm
Concentration per Run 2	-0.0002 ppm	-0.0005 ppm	0.0002 ppm	0.0006 ppm	0.0037 ppm	0.0593 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0043 ppm	0.0524 ppm	-0.0009 ppm
Recovery Percentage 1	-2.592 %	-2.411 %	1.732 %	8.012 %	9.780 %	2.142 %	5.030 %
Concentration RSD	14.8 %	28.8 %	46.4 %	66.2 %	32.9 %	9.9 %	284.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0003 ppm	-0.0029 ppm	0.0494 ppm	0.0000 ppm	-0.0008 ppm	0.0028 ppm
Concentration per Run 1	0.0047 ppm	0.0003 ppm	-0.0024 ppm	0.0478 ppm	-0.0001 ppm	-0.0010 ppm	0.0017 ppm
Concentration per Run 2	0.0015 ppm	0.0002 ppm	-0.0029 ppm	0.0547 ppm	0.0001 ppm	-0.0003 ppm	0.0065 ppm
Concentration per Run 3	0.0033 ppm	0.0004 ppm	-0.0033 ppm	0.0455 ppm	-0.0001 ppm	-0.0011 ppm	0.0003 ppm
Recovery Percentage 1	3.154 %	3.201 %	-5.764 %	2.468 %	-0.126 %	-7.774 %	5.691 %
Concentration RSD	51.2 %	33.0 %	15.3 %	9.7 %	321.1 %	58.5 %	114.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0010 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0005 ppm	**10.6101 ppm**
Concentration per Run 1	-0.0003 ppm	-0.0016 ppm	-0.0011 ppm	0.0001 ppm	0.0004 ppm	-0.0029 ppm	10.6390 ppm
Concentration per Run 2	-0.0004 ppm	-0.0021 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0005 ppm	10.5778 ppm
Concentration per Run 3	-0.0015 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0039 ppm	10.6136 ppm
Recovery Percentage 1	-7.276 %	-0.205 %	-0.399 %	2.213 %	3.536 %	2.567 %	106,101.360 %
Concentration RSD	94.4 %	135.3 %	398.2 %	50.1 %	34.5 %	659.4 %	**0.3 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	104.1628 %	105.0534 %	104.9753 %	102.5214 %	102.5346 %	102.4674 %
Concentration per Run 1	0.0007 ppm	103.7752 %	104.6492 %	105.1638 %	102.2058 %	102.5946 %	102.6746 %
Concentration per Run 2	0.0008 ppm	104.4602 %	104.9475 %	104.9329 %	102.8371 %	102.2786 %	102.5442 %
Concentration per Run 3	0.0009 ppm	104.2530 %	105.5635 %	104.8291 %	102.5214 %	102.7306 %	102.1835 %
Recovery Percentage 1	15.573 %						
Concentration RSD	13.1 %	0.3 %	0.4 %	0.2 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:16:56 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5094 ppm	0.5005 ppm	0.4812 ppm	0.4962 ppm	0.5155 ppm	0.5204 ppm	0.5045 ppm
Concentration per Run 1	0.5076 ppm	0.4972 ppm	0.4780 ppm	0.4966 ppm	0.5165 ppm	0.5201 ppm	0.5042 ppm
Concentration per Run 2	0.5090 ppm	0.5036 ppm	0.4800 ppm	0.4954 ppm	0.5149 ppm	0.5195 ppm	0.5013 ppm
Concentration per Run 3	0.5114 ppm	0.5006 ppm	0.4857 ppm	0.4967 ppm	0.5150 ppm	0.5217 ppm	0.5079 ppm
Recovery Percentage 1	101.871 %	100.094 %	96.245 %	99.245 %	103.098 %	104.085 %	100.891 %
Concentration RSD	0.4 %	0.6 %	0.8 %	0.1 %	0.2 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5108 ppm	0.5157 ppm	0.5085 ppm	0.5005 ppm	0.5252 ppm	5.2704 ppm	0.4938 ppm
Concentration per Run 1	0.5094 ppm	0.5161 ppm	0.5068 ppm	0.5000 ppm	0.5237 ppm	5.3132 ppm	0.5012 ppm
Concentration per Run 2	0.5118 ppm	0.5156 ppm	0.5085 ppm	0.5014 ppm	0.5248 ppm	5.2469 ppm	0.4878 ppm
Concentration per Run 3	0.5113 ppm	0.5154 ppm	0.5102 ppm	0.4999 ppm	0.5271 ppm	5.2512 ppm	0.4925 ppm
Recovery Percentage 1	102.165 %	103.137 %	101.699 %	100.091 %	105.040 %	105.409 %	98.766 %
Concentration RSD	0.3 %	0.1 %	0.3 %	0.2 %	0.3 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4984 ppm	0.5081 ppm	0.5124 ppm	10.5095 ppm	0.5176 ppm	0.5096 ppm	0.4972 ppm
Concentration per Run 1	0.4969 ppm	0.5086 ppm	0.5059 ppm	10.5089 ppm	0.5163 ppm	0.5119 ppm	0.4974 ppm
Concentration per Run 2	0.4995 ppm	0.5061 ppm	0.5140 ppm	10.5317 ppm	0.5191 ppm	0.5095 ppm	0.4962 ppm
Concentration per Run 3	0.4988 ppm	0.5098 ppm	0.5173 ppm	10.4880 ppm	0.5174 ppm	0.5074 ppm	0.4981 ppm
Recovery Percentage 1	99.684 %	101.628 %	102.480 %	105.095 %	103.517 %	101.916 %	99.447 %
Concentration RSD	0.3 %	0.4 %	1.1 %	0.2 %	0.3 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4884 ppm	5.2326 ppm	0.5307 ppm	0.5130 ppm	0.5173 ppm	0.5111 ppm	0.5076 ppm
Concentration per Run 1	0.4865 ppm	5.2235 ppm	0.5314 ppm	0.5116 ppm	0.5157 ppm	0.5125 ppm	0.5063 ppm
Concentration per Run 2	0.4900 ppm	5.2303 ppm	0.5318 ppm	0.5127 ppm	0.5179 ppm	0.5104 ppm	0.5087 ppm
Concentration per Run 3	0.4887 ppm	5.2441 ppm	0.5288 ppm	0.5148 ppm	0.5183 ppm	0.5105 ppm	0.5078 ppm
Recovery Percentage 1	97.683 %	99.669 %	106.135 %	102.605 %	103.459 %	102.228 %	101.519 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.3 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5127 ppm	103.8054 %	103.4147 %	102.3289 %	101.1480 %	100.6509 %	100.4735 %
Concentration per Run 1	0.5107 ppm	104.2969 %	103.4180 %	102.5530 %	101.7644 %	100.9420 %	100.7146 %
Concentration per Run 2	0.5155 ppm	103.2497 %	103.2085 %	102.2191 %	100.7258 %	100.1623 %	100.4111 %
Concentration per Run 3	0.5118 ppm	103.8696 %	103.6175 %	102.2145 %	100.9537 %	100.8485 %	100.2949 %
Recovery Percentage 1	102.539 %						
Concentration RSD	0.5 %	0.5 %	0.2 %	0.2 %	0.5 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:21:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0032 ppm	0.0014 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 1	0.0004 ppm	0.0025 ppm	0.0020 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0009 ppm	-0.0045 ppm	0.0022 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	-0.0046 ppm
Concentration per Run 3	0.0003 ppm	-0.0076 ppm	-0.0001 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	-0.0046 ppm
Recovery Percentage 1	7.574 %	-3.190 %	46.513 %	2.035 %	-0.286 %	2.079 %	-3.492 %
Concentration RSD	67.2 %	162.3 %	90.9 %	278.1 %	813.4 %	28.1 %	55.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0100 ppm	0.0378 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0083 ppm	0.0179 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	0.0106 ppm	0.0545 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0110 ppm	0.0410 ppm	0.0018 ppm
Recovery Percentage 1	1.491 %	-0.257 %	-2.332 %	2.052 %	19.979 %	1.512 %	7.974 %
Concentration RSD	59.7 %	1,187.5 %	100.1 %	118.6 %	14.3 %	48.9 %	179.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0003 ppm	-0.0010 ppm	0.0170 ppm	0.0011 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 1	-0.0007 ppm	0.0005 ppm	-0.0011 ppm	0.0222 ppm	0.0013 ppm	0.0011 ppm	0.0042 ppm
Concentration per Run 2	-0.0021 ppm	0.0003 ppm	-0.0009 ppm	0.0086 ppm	0.0011 ppm	-0.0012 ppm	-0.0041 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	-0.0010 ppm	0.0202 ppm	0.0008 ppm	-0.0007 ppm	-0.0015 ppm
Recovery Percentage 1	-1.378 %	2.879 %	-1.971 %	0.849 %	4.352 %	-2.640 %	-0.966 %
Concentration RSD	50.0 %	72.7 %	8.3 %	43.1 %	26.5 %	463.1 %	877.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0019 ppm	0.0009 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0014 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0035 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Recovery Percentage 1	0.020 %	0.393 %	0.166 %	2.185 %	0.157 %	-0.730 %	-2.178 %
Concentration RSD	91,001.4 %	69.8 %	831.7 %	58.5 %	751.2 %	267.1 %	24.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	91.6420 %	98.4568 %	94.8726 %	97.7282 %	100.8591 %	98.7904 %
Concentration per Run 1	0.0011 ppm	90.8199 %	98.5252 %	94.4953 %	97.7681 %	101.4592 %	98.7368 %
Concentration per Run 2	0.0009 ppm	91.6844 %	98.3781 %	94.8417 %	97.7333 %	100.4953 %	98.7198 %
Concentration per Run 3	0.0009 ppm	92.4215 %	98.4673 %	95.2808 %	97.6831 %	100.6228 %	98.9146 %
Recovery Percentage 1	19.497 %						
Concentration RSD	10.3 %	0.9 %	0.1 %	0.4 %	0.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-1 WG1935256
Analysis started at: 6/18/2024 7:39:31 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0087 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 1	-0.0002 ppm	-0.0105 ppm	0.0005 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 2	0.0006 ppm	-0.0114 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 3	0.0001 ppm	-0.0041 ppm	-0.0008 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0114 ppm
Recovery Percentage 1	2.408 %	-8.661 %	4.148 %	-0.054 %	1.283 %	-0.526 %	11.719 %
Concentration RSD	247.6 %	45.9 %	663.4 %	4,968.8 %	76.6 %	59.3 %	5.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0926 ppm	0.0042 ppm	0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0004 ppm	-0.0002 ppm	0.0916 ppm	0.0074 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0004 ppm	0.0926 ppm	-0.0050 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0935 ppm	0.0103 ppm	0.0023 ppm
Recovery Percentage 1	-1.667 %	0.173 %	5.664 %	-2.044 %	185.200 %	0.169 %	12.461 %
Concentration RSD	25.0 %	1,597.1 %	44.6 %	109.0 %	1.0 %	191.7 %	72.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0036 ppm	0.0008 ppm	-0.0026 ppm	0.0259 ppm	0.0006 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 1	0.0030 ppm	0.0009 ppm	-0.0030 ppm	0.0276 ppm	0.0004 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0040 ppm	0.0008 ppm	-0.0028 ppm	0.0229 ppm	0.0002 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.0037 ppm	0.0006 ppm	-0.0022 ppm	0.0271 ppm	0.0012 ppm	-0.0007 ppm	-0.0017 ppm
Recovery Percentage 1	3.604 %	7.625 %	-5.271 %	1.293 %	2.335 %	-2.973 %	-0.942 %
Concentration RSD	14.4 %	16.6 %	16.5 %	10.0 %	90.9 %	161.4 %	297.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0037 ppm	-0.0010 ppm	0.0003 ppm	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0027 ppm	0.0011 ppm	-0.0005 ppm	0.0002 ppm	-0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 2	-0.0029 ppm	0.0044 ppm	-0.0012 ppm	0.0003 ppm	-0.0004 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.0058 ppm	-0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-13.362 %	0.749 %	-1.971 %	2.633 %	-2.131 %	-1.872 %	-1.387 %
Concentration RSD	189.1 %	64.5 %	43.8 %	35.3 %	99.6 %	208.0 %	82.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0020 ppm	100.4075 %	102.7287 %	102.3613 %	101.9860 %	103.0200 %	102.9366 %
Concentration per Run 1	0.0020 ppm	98.4489 %	102.2837 %	102.4163 %	100.2166 %	102.9411 %	103.0854 %
Concentration per Run 2	0.0021 ppm	101.3011 %	102.9925 %	102.2085 %	102.8869 %	103.5217 %	103.0776 %
Concentration per Run 3	0.0019 ppm	101.4725 %	102.9101 %	102.4592 %	102.8546 %	102.5973 %	102.6467 %
Recovery Percentage 1	40.036 %						
Concentration RSD	4.1 %	1.7 %	0.4 %	0.1 %	1.5 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-2D2 WG1935256
Analysis started at: 6/18/2024 7:43:42 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0558 ppm	2.2093 ppm	0.1263 ppm	1.0831 ppm	2.1135 ppm	0.0534 ppm	10.5245 ppm
Concentration per Run 1	0.0554 ppm	2.2055 ppm	0.1269 ppm	1.0842 ppm	2.1202 ppm	0.0538 ppm	10.5357 ppm
Concentration per Run 2	0.0562 ppm	2.2115 ppm	0.1264 ppm	1.0868 ppm	2.1083 ppm	0.0533 ppm	10.5369 ppm
Concentration per Run 3	0.0559 ppm	2.2110 ppm	0.1256 ppm	1.0782 ppm	2.1118 ppm	0.0533 ppm	10.5009 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.4 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0579 ppm	0.5445 ppm	0.2189 ppm	0.2718 ppm	1.0586 ppm	10.7330 ppm	0.0022 ppm
Concentration per Run 1	0.0584 ppm	0.5470 ppm	0.2204 ppm	0.2723 ppm	1.0641 ppm	10.7835 ppm	0.0019 ppm
Concentration per Run 2	0.0582 ppm	0.5451 ppm	0.2200 ppm	0.2735 ppm	1.0552 ppm	10.6952 ppm	0.0020 ppm
Concentration per Run 3	0.0573 ppm	0.5414 ppm	0.2164 ppm	0.2695 ppm	1.0565 ppm	10.7203 ppm	0.0029 ppm
Concentration RSD	1.0 %	0.5 %	1.0 %	0.7 %	0.5 %	0.4 %	23.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7472 ppm	0.5213 ppm	1.0707 ppm	10.9201 ppm	0.5390 ppm	0.5672 ppm	0.5590 ppm
Concentration per Run 1	10.8157 ppm	0.5235 ppm	1.0604 ppm	10.9538 ppm	0.5430 ppm	0.5717 ppm	0.5608 ppm
Concentration per Run 2	10.7272 ppm	0.5199 ppm	1.0741 ppm	10.9264 ppm	0.5430 ppm	0.5650 ppm	0.5614 ppm
Concentration per Run 3	10.6987 ppm	0.5205 ppm	1.0776 ppm	10.8800 ppm	0.5311 ppm	0.5650 ppm	0.5548 ppm
Concentration RSD	0.6 %	0.4 %	0.9 %	0.3 %	1.3 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1310 ppm	1.2628 ppm	1.0933 ppm	1.0085 ppm	1.0928 ppm	0.1229 ppm	0.5533 ppm
Concentration per Run 1	0.1336 ppm	1.2682 ppm	1.0995 ppm	1.0120 ppm	1.0983 ppm	0.1205 ppm	0.5557 ppm
Concentration per Run 2	0.1304 ppm	1.2651 ppm	1.0995 ppm	1.0120 ppm	1.0938 ppm	0.1237 ppm	0.5525 ppm
Concentration per Run 3	0.1289 ppm	1.2551 ppm	1.0809 ppm	1.0016 ppm	1.0863 ppm	0.1246 ppm	0.5515 ppm
Concentration RSD	1.8 %	0.5 %	1.0 %	0.6 %	0.6 %	1.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5491 ppm	96.3032 %	102.7256 %	96.9259 %	97.0199 %	101.1641 %	97.8362 %
Concentration per Run 1	0.5528 ppm	95.3561 %	101.9033 %	96.0562 %	96.7049 %	100.6181 %	97.2157 %
Concentration per Run 2	0.5513 ppm	96.5952 %	103.3371 %	97.0519 %	97.4051 %	101.6600 %	97.9458 %
Concentration per Run 3	0.5432 ppm	96.9583 %	102.9365 %	97.6695 %	96.9496 %	101.2142 %	98.3470 %
Concentration RSD	0.9 %	0.9 %	0.7 %	0.8 %	0.4 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-01D2 WG1935256
Analysis started at: 6/18/2024 7:47:40 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	112.2495 ppm	0.1670 ppm	0.0293 ppm	1.9988 ppm	0.0042 ppm	157.7300 ppm
Concentration per Run 1	0.0028 ppm	112.4891 ppm	0.1687 ppm	0.0300 ppm	1.9956 ppm	0.0043 ppm	158.2092 ppm
Concentration per Run 2	0.0027 ppm	112.0670 ppm	0.1678 ppm	0.0286 ppm	1.9963 ppm	0.0042 ppm	157.6300 ppm
Concentration per Run 3	0.0030 ppm	112.1923 ppm	0.1645 ppm	0.0292 ppm	2.0045 ppm	0.0042 ppm	157.3507 ppm
Concentration RSD	5.5 %	0.2 %	1.3 %	2.3 %	0.2 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0058 ppm	0.0854 ppm	0.2355 ppm	0.6646 ppm	254.6734 ppm	42.9537 ppm	0.2082 ppm
Concentration per Run 1	0.0058 ppm	0.0859 ppm	0.2361 ppm	0.6661 ppm	254.7742 ppm	43.1921 ppm	0.2089 ppm
Concentration per Run 2	0.0059 ppm	0.0852 ppm	0.2357 ppm	0.6658 ppm	254.0211 ppm	42.9111 ppm	0.2070 ppm
Concentration per Run 3	0.0056 ppm	0.0850 ppm	0.2346 ppm	0.6619 ppm	255.2250 ppm	42.7579 ppm	0.2086 ppm
Concentration RSD	2.4 %	0.6 %	0.3 %	0.4 %	0.2 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	99.2643 ppm	4.5299 ppm	0.0151 ppm	3.7805 ppm	0.1730 ppm	4.9962 ppm	0.0146 ppm
Concentration per Run 1	99.4902 ppm	4.5383 ppm	0.0151 ppm	3.8023 ppm	0.1744 ppm	4.9879 ppm	0.0148 ppm
Concentration per Run 2	99.1931 ppm	4.5222 ppm	0.0152 ppm	3.7794 ppm	0.1731 ppm	5.0262 ppm	0.0136 ppm
Concentration per Run 3	99.1098 ppm	4.5291 ppm	0.0149 ppm	3.7598 ppm	0.1716 ppm	4.9745 ppm	0.0155 ppm
Concentration RSD	0.2 %	0.2 %	0.9 %	0.6 %	0.8 %	0.5 %	6.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0076 ppm	10.9558 ppm	0.1555 ppm	0.5550 ppm	7.9329 ppm	0.0085 ppm	0.3731 ppm
Concentration per Run 1	0.0064 ppm	11.0116 ppm	0.1572 ppm	0.5566 ppm	7.9502 ppm	0.0099 ppm	0.3731 ppm
Concentration per Run 2	0.0077 ppm	11.0006 ppm	0.1561 ppm	0.5540 ppm	7.9219 ppm	0.0083 ppm	0.3727 ppm
Concentration per Run 3	0.0086 ppm	10.8551 ppm	0.1531 ppm	0.5543 ppm	7.9265 ppm	0.0074 ppm	0.3733 ppm
Concentration RSD	15.0 %	0.8 %	1.4 %	0.3 %	0.2 %	14.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2122 ppm	102.3348 %	108.6002 %	88.9526 %	111.1670 %	118.8318 %	110.6640 %
Concentration per Run 1	2.2225 ppm	102.1408 %	108.7292 %	89.2584 %	111.0375 %	119.0228 %	110.7253 %
Concentration per Run 2	2.2025 ppm	102.3267 %	108.4770 %	88.7690 %	111.2255 %	118.6235 %	110.9360 %
Concentration per Run 3	2.2115 ppm	102.5368 %	108.5942 %	88.8305 %	111.2381 %	118.8491 %	110.3307 %
Concentration RSD	0.5 %	0.2 %	0.1 %	0.3 %	0.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-02D2 WG1935256
Analysis started at: 6/18/2024 7:51:36 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	68.9595 ppm	0.0724 ppm	0.0201 ppm	1.0317 ppm	0.0028 ppm	145.3005 ppm
Concentration per Run 1	0.0006 ppm	68.9998 ppm	0.0735 ppm	0.0194 ppm	1.0359 ppm	0.0028 ppm	145.5005 ppm
Concentration per Run 2	0.0005 ppm	68.8287 ppm	0.0716 ppm	0.0190 ppm	1.0275 ppm	0.0027 ppm	145.0739 ppm
Concentration per Run 3	0.0015 ppm	69.0500 ppm	0.0721 ppm	0.0218 ppm	1.0315 ppm	0.0027 ppm	145.3272 ppm
Concentration RSD	62.7 %	0.2 %	1.4 %	7.5 %	0.4 %	1.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0599 ppm	0.1543 ppm	0.3821 ppm	187.2737 ppm	23.2576 ppm	0.1101 ppm
Concentration per Run 1	0.0091 ppm	0.0595 ppm	0.1553 ppm	0.3832 ppm	187.9435 ppm	23.4467 ppm	0.1111 ppm
Concentration per Run 2	0.0091 ppm	0.0603 ppm	0.1535 ppm	0.3822 ppm	186.4484 ppm	23.0765 ppm	0.1100 ppm
Concentration per Run 3	0.0092 ppm	0.0598 ppm	0.1539 ppm	0.3808 ppm	187.4291 ppm	23.2495 ppm	0.1091 ppm
Concentration RSD	0.8 %	0.7 %	0.6 %	0.3 %	0.4 %	0.8 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.3428 ppm	2.3974 ppm	0.0046 ppm	4.6137 ppm	0.1116 ppm	3.3345 ppm	0.0123 ppm
Concentration per Run 1	64.7820 ppm	2.3998 ppm	0.0044 ppm	4.6319 ppm	0.1130 ppm	3.3384 ppm	0.0131 ppm
Concentration per Run 2	64.2653 ppm	2.3925 ppm	0.0046 ppm	4.6089 ppm	0.1104 ppm	3.3264 ppm	0.0125 ppm
Concentration per Run 3	63.9810 ppm	2.4000 ppm	0.0049 ppm	4.6002 ppm	0.1113 ppm	3.3388 ppm	0.0113 ppm
Concentration RSD	0.6 %	0.2 %	5.4 %	0.4 %	1.2 %	0.2 %	7.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	7.4743 ppm	0.1355 ppm	0.4074 ppm	5.6101 ppm	0.0033 ppm	0.2266 ppm
Concentration per Run 1	0.0019 ppm	7.5061 ppm	0.1366 ppm	0.4099 ppm	5.6400 ppm	0.0029 ppm	0.2297 ppm
Concentration per Run 2	0.0027 ppm	7.4638 ppm	0.1368 ppm	0.4057 ppm	5.6018 ppm	0.0025 ppm	0.2258 ppm
Concentration per Run 3	0.0050 ppm	7.4529 ppm	0.1330 ppm	0.4067 ppm	5.5883 ppm	0.0046 ppm	0.2243 ppm
Concentration RSD	49.7 %	0.4 %	1.6 %	0.5 %	0.5 %	34.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0648 ppm	99.3139 %	104.9145 %	90.8585 %	108.0961 %	115.2353 %	108.9337 %
Concentration per Run 1	2.0843 ppm	98.7304 %	105.4482 %	90.9677 %	107.2627 %	116.2017 %	109.1694 %
Concentration per Run 2	2.0508 ppm	99.5281 %	104.5846 %	90.6144 %	108.4207 %	114.5264 %	108.4931 %
Concentration per Run 3	2.0594 ppm	99.6834 %	104.7108 %	90.9935 %	108.6051 %	114.9779 %	109.1387 %
Concentration RSD	0.8 %	0.5 %	0.4 %	0.2 %	0.7 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-03D2 WG1935256
Analysis started at: 6/18/2024 7:55:31 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	94.3129 ppm	0.0302 ppm	0.0252 ppm	1.0698 ppm	0.0027 ppm	94.3549 ppm
Concentration per Run 1	0.0001 ppm	94.6954 ppm	0.0323 ppm	0.0239 ppm	1.0653 ppm	0.0028 ppm	94.6464 ppm
Concentration per Run 2	0.0005 ppm	94.2197 ppm	0.0287 ppm	0.0256 ppm	1.0732 ppm	0.0027 ppm	94.3642 ppm
Concentration per Run 3	0.0003 ppm	94.0235 ppm	0.0297 ppm	0.0261 ppm	1.0708 ppm	0.0028 ppm	94.0542 ppm
Concentration RSD	69.7 %	0.4 %	6.1 %	4.5 %	0.4 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0743 ppm	0.1823 ppm	0.2096 ppm	188.2388 ppm	43.8407 ppm	0.1540 ppm
Concentration per Run 1	0.0007 ppm	0.0752 ppm	0.1840 ppm	0.2095 ppm	188.4298 ppm	43.7206 ppm	0.1553 ppm
Concentration per Run 2	0.0008 ppm	0.0737 ppm	0.1824 ppm	0.2097 ppm	188.4037 ppm	43.8912 ppm	0.1537 ppm
Concentration per Run 3	0.0009 ppm	0.0740 ppm	0.1805 ppm	0.2097 ppm	187.8827 ppm	43.9103 ppm	0.1530 ppm
Concentration RSD	13.7 %	1.1 %	0.9 %	0.1 %	0.2 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.1344 ppm	1.7889 ppm	0.0008 ppm	1.5894 ppm	0.1593 ppm	0.3116 ppm	0.0019 ppm
Concentration per Run 1	61.4438 ppm	1.7950 ppm	0.0009 ppm	1.5921 ppm	0.1604 ppm	0.3118 ppm	0.0008 ppm
Concentration per Run 2	61.1710 ppm	1.7888 ppm	0.0005 ppm	1.5956 ppm	0.1607 ppm	0.3129 ppm	0.0020 ppm
Concentration per Run 3	60.7885 ppm	1.7830 ppm	0.0009 ppm	1.5806 ppm	0.1567 ppm	0.3100 ppm	0.0029 ppm
Concentration RSD	0.5 %	0.3 %	31.6 %	0.5 %	1.4 %	0.5 %	56.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	12.3744 ppm	0.0185 ppm	0.1659 ppm	9.2559 ppm	0.0081 ppm	0.2658 ppm
Concentration per Run 1	0.0056 ppm	12.4484 ppm	0.0186 ppm	0.1659 ppm	9.2859 ppm	0.0095 ppm	0.2686 ppm
Concentration per Run 2	0.0017 ppm	12.3990 ppm	0.0180 ppm	0.1658 ppm	9.2692 ppm	0.0064 ppm	0.2654 ppm
Concentration per Run 3	0.0036 ppm	12.2757 ppm	0.0190 ppm	0.1661 ppm	9.2126 ppm	0.0085 ppm	0.2632 ppm
Concentration RSD	53.4 %	0.7 %	2.5 %	0.1 %	0.4 %	19.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5656 ppm	101.4241 %	108.2635 %	89.4919 %	111.3193 %	118.7240 %	111.3567 %
Concentration per Run 1	0.5704 ppm	101.0168 %	108.6224 %	90.1455 %	110.9583 %	119.1065 %	112.0616 %
Concentration per Run 2	0.5667 ppm	101.5363 %	107.9995 %	88.9132 %	111.3562 %	118.8176 %	110.7593 %
Concentration per Run 3	0.5598 ppm	101.7192 %	108.1685 %	89.4170 %	111.6434 %	118.2480 %	111.2491 %
Concentration RSD	0.9 %	0.4 %	0.3 %	0.7 %	0.3 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-25D2 WG1935256
Analysis started at: 6/18/2024 7:59:27 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	57.4924 ppm	0.1442 ppm	0.0112 ppm	0.4721 ppm	0.0037 ppm	8.7317 ppm
Concentration per Run 1	0.0013 ppm	57.2006 ppm	0.1444 ppm	0.0113 ppm	0.4739 ppm	0.0037 ppm	8.7425 ppm
Concentration per Run 2	0.0010 ppm	57.6716 ppm	0.1441 ppm	0.0128 ppm	0.4711 ppm	0.0037 ppm	8.7311 ppm
Concentration per Run 3	0.0012 ppm	57.6049 ppm	0.1441 ppm	0.0094 ppm	0.4712 ppm	0.0036 ppm	8.7215 ppm
Concentration RSD	11.4 %	0.4 %	0.1 %	15.2 %	0.3 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0320 ppm	0.1078 ppm	0.3016 ppm	111.4752 ppm	2.8717 ppm	0.1080 ppm
Concentration per Run 1	0.0012 ppm	0.0320 ppm	0.1080 ppm	0.3023 ppm	112.0850 ppm	2.8823 ppm	0.1091 ppm
Concentration per Run 2	0.0012 ppm	0.0318 ppm	0.1077 ppm	0.3023 ppm	110.9481 ppm	2.8511 ppm	0.1065 ppm
Concentration per Run 3	0.0013 ppm	0.0323 ppm	0.1078 ppm	0.3003 ppm	111.3924 ppm	2.8817 ppm	0.1085 ppm
Concentration RSD	3.9 %	0.7 %	0.2 %	0.4 %	0.5 %	0.6 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.0552 ppm	1.8270 ppm	0.0010 ppm	1.2807 ppm	0.0791 ppm	0.3632 ppm	0.0031 ppm
Concentration per Run 1	13.1215 ppm	1.8267 ppm	0.0015 ppm	1.2838 ppm	0.0797 ppm	0.3639 ppm	0.0023 ppm
Concentration per Run 2	13.0750 ppm	1.8264 ppm	0.0008 ppm	1.2864 ppm	0.0792 ppm	0.3629 ppm	0.0033 ppm
Concentration per Run 3	12.9692 ppm	1.8278 ppm	0.0008 ppm	1.2719 ppm	0.0786 ppm	0.3628 ppm	0.0036 ppm
Concentration RSD	0.6 %	0.0 %	39.8 %	0.6 %	0.7 %	0.2 %	22.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	4.9995 ppm	0.0209 ppm	0.0730 ppm	0.2233 ppm	0.0007 ppm	0.1808 ppm
Concentration per Run 1	0.0026 ppm	5.0235 ppm	0.0208 ppm	0.0733 ppm	0.2218 ppm	0.0010 ppm	0.1815 ppm
Concentration per Run 2	0.0047 ppm	5.0077 ppm	0.0205 ppm	0.0726 ppm	0.2266 ppm	0.0009 ppm	0.1814 ppm
Concentration per Run 3	0.0034 ppm	4.9671 ppm	0.0212 ppm	0.0731 ppm	0.2216 ppm	0.0001 ppm	0.1796 ppm
Concentration RSD	30.1 %	0.6 %	1.6 %	0.5 %	1.3 %	74.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4088 ppm	100.8640 %	108.0834 %	99.2932 %	107.5554 %	114.3062 %	108.3067 %
Concentration per Run 1	0.4118 ppm	100.7230 %	107.0782 %	99.5559 %	107.8733 %	113.6429 %	108.5442 %
Concentration per Run 2	0.4094 ppm	100.9475 %	108.9773 %	99.1032 %	107.7668 %	115.2468 %	108.0049 %
Concentration per Run 3	0.4053 ppm	100.9215 %	108.1946 %	99.2205 %	107.0262 %	114.0288 %	108.3710 %
Concentration RSD	0.8 %	0.1 %	0.9 %	0.2 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-3D2 WG1935256
Analysis started at: 6/18/2024 8:03:25 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0556 ppm	77.7142 ppm	0.3527 ppm	0.9145 ppm	2.6490 ppm	0.0587 ppm	21.5227 ppm
Concentration per Run 1	0.0553 ppm	77.6634 ppm	0.3513 ppm	0.9145 ppm	2.6388 ppm	0.0587 ppm	21.4608 ppm
Concentration per Run 2	0.0555 ppm	77.7382 ppm	0.3517 ppm	0.9105 ppm	2.6542 ppm	0.0587 ppm	21.5792 ppm
Concentration per Run 3	0.0559 ppm	77.7410 ppm	0.3552 ppm	0.9184 ppm	2.6539 ppm	0.0587 ppm	21.5281 ppm
Concentration RSD	0.5 %	0.1 %	0.6 %	0.4 %	0.3 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0556 ppm	0.5637 ppm	0.3448 ppm	0.6418 ppm	165.6864 ppm	13.5148 ppm	0.1305 ppm
Concentration per Run 1	0.0556 ppm	0.5626 ppm	0.3447 ppm	0.6389 ppm	165.1001 ppm	13.4680 ppm	0.1327 ppm
Concentration per Run 2	0.0555 ppm	0.5639 ppm	0.3451 ppm	0.6434 ppm	166.1269 ppm	13.6281 ppm	0.1307 ppm
Concentration per Run 3	0.0559 ppm	0.5645 ppm	0.3446 ppm	0.6432 ppm	165.8322 ppm	13.4482 ppm	0.1282 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.4 %	0.3 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8259 ppm	3.1362 ppm	1.0142 ppm	12.2396 ppm	0.6073 ppm	1.0307 ppm	0.4628 ppm
Concentration per Run 1	23.8828 ppm	3.1256 ppm	0.9928 ppm	12.2420 ppm	0.6064 ppm	1.0232 ppm	0.4619 ppm
Concentration per Run 2	23.8039 ppm	3.1425 ppm	1.0138 ppm	12.2310 ppm	0.6090 ppm	1.0320 ppm	0.4644 ppm
Concentration per Run 3	23.7912 ppm	3.1406 ppm	1.0360 ppm	12.2459 ppm	0.6065 ppm	1.0369 ppm	0.4621 ppm
Concentration RSD	0.2 %	0.3 %	2.1 %	0.1 %	0.2 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1312 ppm	8.1040 ppm	1.0620 ppm	1.1058 ppm	1.0446 ppm	0.1218 ppm	0.8125 ppm
Concentration per Run 1	0.1289 ppm	8.0834 ppm	1.0571 ppm	1.1049 ppm	1.0463 ppm	0.1225 ppm	0.8122 ppm
Concentration per Run 2	0.1322 ppm	8.1666 ppm	1.0631 ppm	1.1069 ppm	1.0450 ppm	0.1188 ppm	0.8137 ppm
Concentration per Run 3	0.1325 ppm	8.0620 ppm	1.0658 ppm	1.1056 ppm	1.0425 ppm	0.1242 ppm	0.8117 ppm
Concentration RSD	1.5 %	0.7 %	0.4 %	0.1 %	0.2 %	2.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0198 ppm	100.8373 %	108.3672 %	96.1358 %	105.3539 %	113.8730 %	106.2378 %
Concentration per Run 1	1.0192 ppm	100.1308 %	108.8639 %	96.8969 %	104.3871 %	114.1455 %	106.5932 %
Concentration per Run 2	1.0200 ppm	101.1713 %	108.9694 %	95.9266 %	105.7219 %	114.4193 %	106.3041 %
Concentration per Run 3	1.0202 ppm	101.2099 %	107.2683 %	95.5839 %	105.9526 %	113.0543 %	105.8160 %
Concentration RSD	0.1 %	0.6 %	0.9 %	0.7 %	0.8 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-4D2 WG1935256
Analysis started at: 6/18/2024 8:07:22 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	85.3216 ppm	0.1020 ppm	0.0149 ppm	0.4517 ppm	0.0052 ppm	7.1005 ppm
Concentration per Run 1	0.0008 ppm	85.3049 ppm	0.1017 ppm	0.0158 ppm	0.4509 ppm	0.0052 ppm	7.1071 ppm
Concentration per Run 2	0.0009 ppm	85.2091 ppm	0.1027 ppm	0.0145 ppm	0.4507 ppm	0.0052 ppm	7.0682 ppm
Concentration per Run 3	0.0012 ppm	85.4509 ppm	0.1017 ppm	0.0142 ppm	0.4537 ppm	0.0052 ppm	7.1261 ppm
Concentration RSD	21.9 %	0.1 %	0.6 %	5.7 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0469 ppm	0.1790 ppm	0.1890 ppm	214.4841 ppm	3.7434 ppm	0.1617 ppm
Concentration per Run 1	0.0006 ppm	0.0473 ppm	0.1791 ppm	0.1901 ppm	214.3670 ppm	3.7495 ppm	0.1629 ppm
Concentration per Run 2	0.0006 ppm	0.0469 ppm	0.1788 ppm	0.1887 ppm	213.4388 ppm	3.7354 ppm	0.1602 ppm
Concentration per Run 3	0.0005 ppm	0.0466 ppm	0.1790 ppm	0.1884 ppm	215.6464 ppm	3.7451 ppm	0.1622 ppm
Concentration RSD	7.1 %	0.8 %	0.1 %	0.5 %	0.5 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.1043 ppm	3.3990 ppm	0.0102 ppm	1.3187 ppm	0.1157 ppm	0.2185 ppm	0.0056 ppm
Concentration per Run 1	21.0874 ppm	3.4086 ppm	0.0101 ppm	1.3227 ppm	0.1161 ppm	0.2188 ppm	0.0064 ppm
Concentration per Run 2	21.0961 ppm	3.3884 ppm	0.0099 ppm	1.3157 ppm	0.1162 ppm	0.2187 ppm	0.0053 ppm
Concentration per Run 3	21.1294 ppm	3.4001 ppm	0.0105 ppm	1.3177 ppm	0.1148 ppm	0.2180 ppm	0.0050 ppm
Concentration RSD	0.1 %	0.3 %	2.8 %	0.3 %	0.7 %	0.2 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	4.9035 ppm	0.0158 ppm	0.0616 ppm	0.4942 ppm	0.0017 ppm	0.2475 ppm
Concentration per Run 1	0.0023 ppm	4.8709 ppm	0.0146 ppm	0.0614 ppm	0.4934 ppm	0.0032 ppm	0.2473 ppm
Concentration per Run 2	0.0023 ppm	4.9372 ppm	0.0159 ppm	0.0613 ppm	0.4926 ppm	0.0015 ppm	0.2475 ppm
Concentration per Run 3	0.0054 ppm	4.9023 ppm	0.0168 ppm	0.0620 ppm	0.4965 ppm	0.0005 ppm	0.2478 ppm
Concentration RSD	53.7 %	0.7 %	6.9 %	0.6 %	0.4 %	79.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3700 ppm	102.0960 %	109.1243 %	98.1552 %	109.0774 %	117.3538 %	110.3379 %
Concentration per Run 1	0.3705 ppm	102.0778 %	108.6578 %	98.1503 %	109.1401 %	116.6939 %	110.5082 %
Concentration per Run 2	0.3694 ppm	102.1479 %	109.8754 %	97.9665 %	109.1509 %	117.8329 %	109.9547 %
Concentration per Run 3	0.3701 ppm	102.0622 %	108.8398 %	98.3488 %	108.9411 %	117.5347 %	110.5508 %
Concentration RSD	0.1 %	0.0 %	0.6 %	0.2 %	0.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-5D2 WG1935256
Analysis started at: 6/18/2024 8:11:21 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	59.3968 ppm	0.2659 ppm	0.9840 ppm	2.3595 ppm	0.0515 ppm	18.2761 ppm
Concentration per Run 1	0.0499 ppm	59.3262 ppm	0.2689 ppm	0.9802 ppm	2.3558 ppm	0.0515 ppm	18.3190 ppm
Concentration per Run 2	0.0502 ppm	59.2191 ppm	0.2640 ppm	0.9836 ppm	2.3622 ppm	0.0516 ppm	18.2439 ppm
Concentration per Run 3	0.0503 ppm	59.6450 ppm	0.2647 ppm	0.9883 ppm	2.3605 ppm	0.0515 ppm	18.2655 ppm
Concentration RSD	0.5 %	0.4 %	1.0 %	0.4 %	0.1 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.5033 ppm	0.2970 ppm	0.5487 ppm	111.6923 ppm	12.7262 ppm	0.1082 ppm
Concentration per Run 1	0.0519 ppm	0.5024 ppm	0.2968 ppm	0.5481 ppm	111.6726 ppm	12.7949 ppm	0.1087 ppm
Concentration per Run 2	0.0521 ppm	0.5035 ppm	0.2969 ppm	0.5482 ppm	111.5447 ppm	12.6623 ppm	0.1089 ppm
Concentration per Run 3	0.0523 ppm	0.5042 ppm	0.2973 ppm	0.5497 ppm	111.8597 ppm	12.7214 ppm	0.1071 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.2 %	0.1 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.5255 ppm	2.2812 ppm	0.9021 ppm	11.3001 ppm	0.5580 ppm	0.8942 ppm	0.3974 ppm
Concentration per Run 1	22.5092 ppm	2.2790 ppm	0.8814 ppm	11.3116 ppm	0.5583 ppm	0.8979 ppm	0.3938 ppm
Concentration per Run 2	22.5262 ppm	2.2727 ppm	0.9026 ppm	11.2781 ppm	0.5572 ppm	0.8907 ppm	0.3968 ppm
Concentration per Run 3	22.5411 ppm	2.2920 ppm	0.9224 ppm	11.3107 ppm	0.5585 ppm	0.8942 ppm	0.4016 ppm
Concentration RSD	0.1 %	0.4 %	2.3 %	0.2 %	0.1 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1267 ppm	5.5578 ppm	0.9945 ppm	1.0075 ppm	1.2018 ppm	0.1186 ppm	0.6639 ppm
Concentration per Run 1	0.1271 ppm	5.5402 ppm	0.9866 ppm	1.0044 ppm	1.1934 ppm	0.1189 ppm	0.6627 ppm
Concentration per Run 2	0.1266 ppm	5.5426 ppm	0.9934 ppm	1.0072 ppm	1.2054 ppm	0.1189 ppm	0.6640 ppm
Concentration per Run 3	0.1265 ppm	5.5907 ppm	1.0036 ppm	1.0111 ppm	1.2066 ppm	0.1179 ppm	0.6651 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %	0.3 %	0.6 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8833 ppm	100.5836 %	108.2849 %	97.6310 %	106.6282 %	114.1248 %	107.2755 %
Concentration per Run 1	0.8830 ppm	100.3296 %	108.0833 %	98.2245 %	106.5848 %	114.3032 %	108.1829 %
Concentration per Run 2	0.8811 ppm	100.8260 %	108.7454 %	97.4818 %	106.8835 %	114.2191 %	107.2477 %
Concentration per Run 3	0.8859 ppm	100.5950 %	108.0262 %	97.1868 %	106.4163 %	113.8522 %	106.3959 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.5 %	0.2 %	0.2 %	0.8 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935256-6D10 WG1935256
Analysis started at: 6/18/2024 8:15:15 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	12.0741 ppm	0.0282 ppm	0.0030 ppm	0.0969 ppm	0.0008 ppm	1.7930 ppm
Concentration per Run 1	0.0001 ppm	12.0863 ppm	0.0301 ppm	0.0034 ppm	0.0972 ppm	0.0008 ppm	1.7900 ppm
Concentration per Run 2	0.0006 ppm	12.0598 ppm	0.0263 ppm	0.0034 ppm	0.0965 ppm	0.0007 ppm	1.7917 ppm
Concentration per Run 3	0.0004 ppm	12.0763 ppm	0.0282 ppm	0.0023 ppm	0.0970 ppm	0.0007 ppm	1.7974 ppm
Concentration RSD	59.1 %	0.1 %	6.6 %	20.3 %	0.3 %	3.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0066 ppm	0.0227 ppm	0.0622 ppm	23.5482 ppm	0.6270 ppm	0.0240 ppm
Concentration per Run 1	0.0003 ppm	0.0067 ppm	0.0227 ppm	0.0627 ppm	23.5963 ppm	0.6619 ppm	0.0237 ppm
Concentration per Run 2	0.0003 ppm	0.0063 ppm	0.0226 ppm	0.0624 ppm	23.4963 ppm	0.6232 ppm	0.0237 ppm
Concentration per Run 3	0.0002 ppm	0.0068 ppm	0.0227 ppm	0.0615 ppm	23.5520 ppm	0.5958 ppm	0.0246 ppm
Concentration RSD	31.2 %	4.1 %	0.1 %	1.0 %	0.2 %	5.3 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7946 ppm	0.3822 ppm	0.0008 ppm	0.2738 ppm	0.0173 ppm	0.0762 ppm	0.0053 ppm
Concentration per Run 1	2.8203 ppm	0.3825 ppm	0.0009 ppm	0.2745 ppm	0.0169 ppm	0.0776 ppm	0.0062 ppm
Concentration per Run 2	2.8004 ppm	0.3815 ppm	0.0013 ppm	0.2717 ppm	0.0182 ppm	0.0758 ppm	0.0069 ppm
Concentration per Run 3	2.7632 ppm	0.3827 ppm	0.0004 ppm	0.2751 ppm	0.0168 ppm	0.0752 ppm	0.0029 ppm
Concentration RSD	1.0 %	0.2 %	50.5 %	0.7 %	4.5 %	1.7 %	39.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.0239 ppm	0.0064 ppm	0.0151 ppm	0.0486 ppm	-0.0008 ppm	0.0374 ppm
Concentration per Run 1	-0.0005 ppm	1.0660 ppm	0.0065 ppm	0.0151 ppm	0.0455 ppm	-0.0009 ppm	0.0376 ppm
Concentration per Run 2	0.0008 ppm	0.9907 ppm	0.0065 ppm	0.0150 ppm	0.0474 ppm	-0.0010 ppm	0.0374 ppm
Concentration per Run 3	0.0020 ppm	1.0148 ppm	0.0061 ppm	0.0152 ppm	0.0528 ppm	-0.0005 ppm	0.0372 ppm
Concentration RSD	167.9 %	3.8 %	3.8 %	0.5 %	7.9 %	36.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0868 ppm	96.5842 %	105.7045 %	99.1748 %	101.2438 %	107.3205 %	102.4873 %
Concentration per Run 1	0.0873 ppm	95.6145 %	105.3165 %	98.5028 %	101.2914 %	107.0394 %	102.4245 %
Concentration per Run 2	0.0873 ppm	96.4985 %	105.7411 %	99.1024 %	101.1604 %	107.0826 %	102.4349 %
Concentration per Run 3	0.0857 ppm	97.6396 %	106.0558 %	99.9191 %	101.2796 %	107.8394 %	102.6026 %
Concentration RSD	1.1 %	1.1 %	0.4 %	0.7 %	0.1 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:19:09 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5156 ppm	0.5030 ppm	0.4916 ppm	0.5126 ppm	0.5133 ppm	0.5178 ppm	0.5017 ppm
Concentration per Run 1	0.5138 ppm	0.5073 ppm	0.4903 ppm	0.5103 ppm	0.5107 ppm	0.5186 ppm	0.5011 ppm
Concentration per Run 2	0.5154 ppm	0.4985 ppm	0.4912 ppm	0.5109 ppm	0.5128 ppm	0.5172 ppm	0.4999 ppm
Concentration per Run 3	0.5176 ppm	0.5033 ppm	0.4932 ppm	0.5167 ppm	0.5166 ppm	0.5176 ppm	0.5042 ppm
Recovery Percentage 1	103.117 %	100.600 %	98.312 %	102.525 %	102.670 %	103.560 %	100.349 %
Concentration RSD	0.4 %	0.9 %	0.3 %	0.7 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5217 ppm	0.5231 ppm	0.5144 ppm	0.5050 ppm	0.5263 ppm	5.2803 ppm	0.4929 ppm
Concentration per Run 1	0.5204 ppm	0.5200 ppm	0.5136 ppm	0.5030 ppm	0.5220 ppm	5.2874 ppm	0.4903 ppm
Concentration per Run 2	0.5219 ppm	0.5237 ppm	0.5141 ppm	0.5056 ppm	0.5299 ppm	5.2646 ppm	0.4949 ppm
Concentration per Run 3	0.5227 ppm	0.5255 ppm	0.5155 ppm	0.5064 ppm	0.5268 ppm	5.2888 ppm	0.4935 ppm
Recovery Percentage 1	104.332 %	104.618 %	102.877 %	100.996 %	105.251 %	105.605 %	98.582 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.4 %	0.8 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5101 ppm	0.5038 ppm	0.5119 ppm	10.4500 ppm	0.5278 ppm	0.5086 ppm	0.5117 ppm
Concentration per Run 1	0.5116 ppm	0.5020 ppm	0.5038 ppm	10.4565 ppm	0.5258 ppm	0.5073 ppm	0.5049 ppm
Concentration per Run 2	0.5101 ppm	0.5054 ppm	0.5127 ppm	10.4493 ppm	0.5274 ppm	0.5106 ppm	0.5142 ppm
Concentration per Run 3	0.5087 ppm	0.5041 ppm	0.5192 ppm	10.4441 ppm	0.5302 ppm	0.5078 ppm	0.5160 ppm
Recovery Percentage 1	102.028 %	100.762 %	102.377 %	104.500 %	105.561 %	101.710 %	102.343 %
Concentration RSD	0.3 %	0.3 %	1.5 %	0.1 %	0.4 %	0.3 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5048 ppm	5.3570 ppm	0.5423 ppm	0.5101 ppm	0.5197 ppm	0.5048 ppm	0.5134 ppm
Concentration per Run 1	0.5040 ppm	5.3315 ppm	0.5398 ppm	0.5099 ppm	0.5186 ppm	0.5034 ppm	0.5128 ppm
Concentration per Run 2	0.5079 ppm	5.3639 ppm	0.5414 ppm	0.5084 ppm	0.5198 ppm	0.5081 ppm	0.5130 ppm
Concentration per Run 3	0.5026 ppm	5.3755 ppm	0.5455 ppm	0.5121 ppm	0.5208 ppm	0.5029 ppm	0.5144 ppm
Recovery Percentage 1	100.965 %	102.037 %	108.453 %	102.028 %	103.945 %	100.956 %	102.683 %
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5289 ppm	99.5225 %	104.7175 %	100.1154 %	97.7686 %	102.5702 %	98.9374 %
Concentration per Run 1	0.5286 ppm	99.2213 %	105.6941 %	100.4175 %	97.3012 %	103.2441 %	99.2434 %
Concentration per Run 2	0.5293 ppm	99.5868 %	104.8690 %	99.9257 %	97.7803 %	103.1563 %	98.9790 %
Concentration per Run 3	0.5287 ppm	99.7596 %	103.5896 %	100.0030 %	98.2244 %	101.3102 %	98.5898 %
Recovery Percentage 1	105.774 %						
Concentration RSD	0.1 %	0.3 %	1.0 %	0.3 %	0.5 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:23:05 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0112 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 1	0.0008 ppm	-0.0161 ppm	-0.0008 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0061 ppm
Concentration per Run 2	0.0002 ppm	-0.0081 ppm	-0.0005 ppm	0.0021 ppm	0.0000 ppm	0.0001 ppm	-0.0041 ppm
Concentration per Run 3	0.0006 ppm	-0.0092 ppm	0.0014 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	-0.0041 ppm
Recovery Percentage 1	7.742 %	-11.173 %	1.456 %	1.167 %	-0.827 %	0.097 %	-4.773 %
Concentration RSD	62.6 %	38.7 %	2,692.3 %	450.3 %	118.0 %	1,477.3 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0032 ppm	0.0408 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0002 ppm	0.0007 ppm	0.0027 ppm	0.0434 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0036 ppm	0.0325 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0034 ppm	0.0464 ppm	-0.0003 ppm
Recovery Percentage 1	-0.154 %	-0.585 %	1.904 %	3.290 %	6.486 %	1.632 %	-1.094 %
Concentration RSD	732.2 %	697.6 %	63.3 %	109.5 %	13.8 %	17.9 %	476.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0021 ppm	0.0001 ppm	-0.0007 ppm	0.0067 ppm	0.0006 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	-0.0023 ppm	0.0000 ppm	-0.0009 ppm	0.0041 ppm	0.0015 ppm	0.0025 ppm	0.0015 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	-0.0007 ppm	0.0099 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 3	-0.0027 ppm	0.0001 ppm	-0.0004 ppm	0.0062 ppm	0.0007 ppm	0.0004 ppm	0.0012 ppm
Recovery Percentage 1	-2.055 %	1.216 %	-1.315 %	0.335 %	2.465 %	10.888 %	1.517 %
Concentration RSD	39.1 %	132.0 %	41.4 %	43.9 %	156.4 %	110.0 %	141.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	-0.0004 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 2	0.0011 ppm	0.0009 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0009 ppm	-0.0001 ppm	-0.0004 ppm	-0.0018 ppm	-0.0001 ppm
Recovery Percentage 1	3.133 %	0.060 %	1.475 %	0.890 %	-2.334 %	-7.880 %	-0.502 %
Concentration RSD	240.6 %	194.1 %	18.2 %	148.5 %	143.5 %	38.4 %	334.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	92.2943 %	99.2416 %	95.8739 %	98.2046 %	102.0272 %	99.7891 %
Concentration per Run 1	0.0007 ppm	91.6126 %	99.5458 %	95.6212 %	98.1704 %	102.7873 %	100.1851 %
Concentration per Run 2	0.0007 ppm	92.5186 %	99.2051 %	96.1772 %	98.4860 %	101.7813 %	99.9309 %
Concentration per Run 3	0.0003 ppm	92.7518 %	98.9738 %	95.8234 %	97.9575 %	101.5131 %	99.2512 %
Recovery Percentage 1	11.260 %						
Concentration RSD	39.3 %	0.7 %	0.3 %	0.3 %	0.3 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: zWG1935256-1 WG1935256
Analysis started at: 6/18/2024 8:29:07 AM
Rack 1
Vial 33
Comment rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0122 ppm
Concentration per Run 1	0.0005 ppm	-0.0012 ppm	-0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 2	0.0001 ppm	-0.0064 ppm	0.0008 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 3	0.0001 ppm	0.0085 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0123 ppm
Recovery Percentage 1	3.295 %	0.297 %	4.038 %	2.059 %	0.441 %	-0.333 %	12.192 %
Concentration RSD	87.2 %	2,540.9 %	510.9 %	55.5 %	263.4 %	172.8 %	10.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0943 ppm	0.0299 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0934 ppm	0.0115 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0009 ppm	-0.0001 ppm	0.0929 ppm	0.0379 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0965 ppm	0.0404 ppm	0.0017 ppm
Recovery Percentage 1	0.012 %	-2.020 %	7.065 %	1.404 %	188.529 %	1.198 %	11.351 %
Concentration RSD	8,744.3 %	58.5 %	24.9 %	223.3 %	2.1 %	53.5 %	184.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0008 ppm	-0.0027 ppm	0.0160 ppm	0.0004 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 1	0.0009 ppm	0.0008 ppm	-0.0026 ppm	0.0171 ppm	0.0004 ppm	0.0009 ppm	-0.0021 ppm
Concentration per Run 2	0.0016 ppm	0.0009 ppm	-0.0026 ppm	0.0174 ppm	0.0002 ppm	-0.0010 ppm	0.0013 ppm
Concentration per Run 3	0.0012 ppm	0.0008 ppm	-0.0030 ppm	0.0134 ppm	0.0007 ppm	-0.0007 ppm	-0.0023 ppm
Recovery Percentage 1	1.255 %	8.223 %	-5.495 %	0.798 %	1.749 %	-2.575 %	-2.073 %
Concentration RSD	26.5 %	3.5 %	9.0 %	14.0 %	54.7 %	383.8 %	197.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0055 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 1	-0.0005 ppm	0.0067 ppm	0.0007 ppm	0.0001 ppm	0.0015 ppm	-0.0024 ppm	-0.0007 ppm
Concentration per Run 2	-0.0015 ppm	0.0049 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0023 ppm	0.0049 ppm	-0.0004 ppm	0.0003 ppm	-0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Recovery Percentage 1	-14.243 %	1.095 %	0.229 %	1.526 %	4.112 %	-5.938 %	-2.194 %
Concentration RSD	61.2 %	18.8 %	486.1 %	67.7 %	225.9 %	91.2 %	182.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	100.7368 %	103.1767 %	103.0466 %	103.5129 %	103.8948 %	103.8934 %
Concentration per Run 1	0.0017 ppm	99.8257 %	102.6432 %	102.5852 %	102.9403 %	103.1866 %	103.7858 %
Concentration per Run 2	0.0018 ppm	101.1464 %	103.0776 %	103.5686 %	103.7951 %	103.8394 %	104.2671 %
Concentration per Run 3	0.0018 ppm	101.2383 %	103.8095 %	102.9859 %	103.8032 %	104.6585 %	103.6273 %
Recovery Percentage 1	35.741 %						
Concentration RSD	2.5 %	0.8 %	0.6 %	0.5 %	0.5 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0305 FAO
Analysis started at: 6/18/2024 8:33:17 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0206 ppm	0.1249 ppm	1.0678 ppm	0.0068 ppm	-0.0001 ppm	10.3184 ppm
Concentration per Run 1	0.0002 ppm	0.0226 ppm	0.1251 ppm	1.0730 ppm	0.0068 ppm	-0.0001 ppm	10.3346 ppm
Concentration per Run 2	0.0003 ppm	0.0257 ppm	0.1248 ppm	1.0692 ppm	0.0069 ppm	-0.0001 ppm	10.3482 ppm
Concentration per Run 3	0.0005 ppm	0.0135 ppm	0.1247 ppm	1.0612 ppm	0.0068 ppm	0.0000 ppm	10.2723 ppm
Concentration RSD	48.3 %	30.6 %	0.2 %	0.6 %	1.0 %	69.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	-0.0003 ppm	-0.0003 ppm	0.0000 ppm	0.0058 ppm	10.6509 ppm	0.0008 ppm
Concentration per Run 1	0.0032 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0041 ppm	10.6591 ppm	0.0020 ppm
Concentration per Run 2	0.0033 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0063 ppm	10.7366 ppm	0.0004 ppm
Concentration per Run 3	0.0032 ppm	-0.0006 ppm	-0.0004 ppm	0.0002 ppm	0.0069 ppm	10.5570 ppm	0.0000 ppm
Concentration RSD	1.0 %	138.2 %	55.4 %	285.8 %	26.0 %	0.8 %	138.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7622 ppm	0.0009 ppm	1.0031 ppm	10.7037 ppm	0.0004 ppm	0.5614 ppm	0.0010 ppm
Concentration per Run 1	10.8330 ppm	0.0010 ppm	0.9875 ppm	10.7431 ppm	0.0006 ppm	0.5666 ppm	-0.0005 ppm
Concentration per Run 2	10.7835 ppm	0.0007 ppm	1.0084 ppm	10.7070 ppm	0.0005 ppm	0.5594 ppm	0.0040 ppm
Concentration per Run 3	10.6700 ppm	0.0011 ppm	1.0133 ppm	10.6611 ppm	0.0001 ppm	0.5582 ppm	-0.0004 ppm
Concentration RSD	0.8 %	23.9 %	1.4 %	0.4 %	76.5 %	0.8 %	248.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1268 ppm	0.6029 ppm	1.0674 ppm	1.0155 ppm	1.0929 ppm	0.1258 ppm	-0.0002 ppm
Concentration per Run 1	0.1286 ppm	0.6071 ppm	1.0630 ppm	1.0182 ppm	1.0977 ppm	0.1279 ppm	0.0000 ppm
Concentration per Run 2	0.1250 ppm	0.6027 ppm	1.0700 ppm	1.0210 ppm	1.0945 ppm	0.1244 ppm	-0.0003 ppm
Concentration per Run 3	0.1268 ppm	0.5988 ppm	1.0693 ppm	1.0073 ppm	1.0867 ppm	0.1251 ppm	-0.0002 ppm
Concentration RSD	1.4 %	0.7 %	0.4 %	0.7 %	0.5 %	1.4 %	73.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.7908 %	101.3996 %	95.1627 %	98.6834 %	102.5240 %	98.7257 %
Concentration per Run 1	0.0007 ppm	92.8350 %	101.3514 %	94.5802 %	98.6428 %	102.6123 %	98.5400 %
Concentration per Run 2	0.0003 ppm	93.7609 %	101.2906 %	95.7429 %	98.4911 %	102.7448 %	99.1163 %
Concentration per Run 3	0.0002 ppm	94.7765 %	101.5569 %	95.1650 %	98.9161 %	102.2148 %	98.5209 %
Concentration RSD	63.0 %	1.0 %	0.1 %	0.6 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0315 FAO
Analysis started at: 6/18/2024 8:37:14 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0328 ppm	0.1265 ppm	1.0818 ppm	0.0069 ppm	-0.0001 ppm	10.4392 ppm
Concentration per Run 1	0.0005 ppm	0.0287 ppm	0.1279 ppm	1.0920 ppm	0.0069 ppm	-0.0001 ppm	10.4653 ppm
Concentration per Run 2	0.0005 ppm	0.0298 ppm	0.1268 ppm	1.0749 ppm	0.0068 ppm	-0.0001 ppm	10.4220 ppm
Concentration per Run 3	0.0001 ppm	0.0399 ppm	0.1248 ppm	1.0783 ppm	0.0069 ppm	-0.0001 ppm	10.4304 ppm
Concentration RSD	68.1 %	18.7 %	1.2 %	0.8 %	1.2 %	12.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0031 ppm	-0.0004 ppm	0.0000 ppm	0.0010 ppm	0.0059 ppm	10.7241 ppm	0.0000 ppm
Concentration per Run 1	0.0032 ppm	-0.0004 ppm	-0.0001 ppm	0.0015 ppm	0.0045 ppm	10.7354 ppm	0.0000 ppm
Concentration per Run 2	0.0032 ppm	-0.0009 ppm	0.0002 ppm	0.0008 ppm	0.0042 ppm	10.6401 ppm	-0.0023 ppm
Concentration per Run 3	0.0030 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0088 ppm	10.7969 ppm	0.0024 ppm
Concentration RSD	4.2 %	101.9 %	4,708.5 %	42.9 %	43.8 %	0.7 %	20,513.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9319 ppm	0.0009 ppm	1.0216 ppm	10.8407 ppm	0.0003 ppm	0.5652 ppm	-0.0008 ppm
Concentration per Run 1	11.0499 ppm	0.0009 ppm	1.0134 ppm	10.8571 ppm	0.0006 ppm	0.5678 ppm	0.0000 ppm
Concentration per Run 2	10.9162 ppm	0.0008 ppm	1.0200 ppm	10.8290 ppm	-0.0009 ppm	0.5652 ppm	-0.0015 ppm
Concentration per Run 3	10.8295 ppm	0.0009 ppm	1.0313 ppm	10.8361 ppm	0.0011 ppm	0.5625 ppm	-0.0010 ppm
Concentration RSD	1.0 %	4.7 %	0.9 %	0.1 %	407.9 %	0.5 %	88.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1287 ppm	0.6101 ppm	1.0947 ppm	1.0270 ppm	1.1102 ppm	0.1254 ppm	0.0000 ppm
Concentration per Run 1	0.1297 ppm	0.6168 ppm	1.0987 ppm	1.0259 ppm	1.1209 ppm	0.1280 ppm	-0.0003 ppm
Concentration per Run 2	0.1273 ppm	0.6088 ppm	1.0846 ppm	1.0319 ppm	1.1078 ppm	0.1260 ppm	0.0000 ppm
Concentration per Run 3	0.1290 ppm	0.6047 ppm	1.1007 ppm	1.0233 ppm	1.1018 ppm	0.1223 ppm	0.0001 ppm
Concentration RSD	1.0 %	1.0 %	0.8 %	0.4 %	0.9 %	2.3 %	437.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	93.9116 %	101.9591 %	95.7805 %	98.6381 %	102.7868 %	99.3591 %
Concentration per Run 1	0.0031 ppm	93.0865 %	101.2937 %	95.3299 %	98.6765 %	102.5391 %	99.4671 %
Concentration per Run 2	0.0029 ppm	94.3334 %	102.3535 %	95.8111 %	98.8837 %	103.0514 %	99.2551 %
Concentration per Run 3	0.0024 ppm	94.3151 %	102.2302 %	96.2003 %	98.3541 %	102.7700 %	99.3550 %
Concentration RSD	12.9 %	0.8 %	0.6 %	0.5 %	0.3 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test FM 0329 FAO
Analysis started at: 6/18/2024 8:41:11 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0242 ppm	0.1256 ppm	1.0780 ppm	0.0068 ppm	-0.0001 ppm	10.4251 ppm
Concentration per Run 1	0.0005 ppm	0.0276 ppm	0.1261 ppm	1.0937 ppm	0.0068 ppm	-0.0001 ppm	10.4576 ppm
Concentration per Run 2	0.0002 ppm	0.0221 ppm	0.1262 ppm	1.0755 ppm	0.0067 ppm	-0.0001 ppm	10.4139 ppm
Concentration per Run 3	-0.0001 ppm	0.0230 ppm	0.1244 ppm	1.0648 ppm	0.0070 ppm	0.0000 ppm	10.4039 ppm
Concentration RSD	162.6 %	12.3 %	0.8 %	1.4 %	1.9 %	94.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0035 ppm	10.8206 ppm	-0.0002 ppm
Concentration per Run 1	0.0032 ppm	-0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0028 ppm	10.9313 ppm	-0.0001 ppm
Concentration per Run 2	0.0034 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0048 ppm	10.7680 ppm	-0.0003 ppm
Concentration per Run 3	0.0033 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0029 ppm	10.7624 ppm	-0.0001 ppm
Concentration RSD	2.8 %	289.3 %	257.8 %	299.3 %	32.5 %	0.9 %	52.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8825 ppm	0.0009 ppm	1.0278 ppm	10.8421 ppm	0.0006 ppm	0.5669 ppm	0.0005 ppm
Concentration per Run 1	10.9972 ppm	0.0009 ppm	1.0211 ppm	10.8730 ppm	0.0001 ppm	0.5683 ppm	-0.0027 ppm
Concentration per Run 2	10.8642 ppm	0.0009 ppm	1.0283 ppm	10.8456 ppm	0.0004 ppm	0.5699 ppm	0.0031 ppm
Concentration per Run 3	10.7861 ppm	0.0009 ppm	1.0339 ppm	10.8077 ppm	0.0014 ppm	0.5627 ppm	0.0010 ppm
Concentration RSD	1.0 %	4.7 %	0.6 %	0.3 %	108.2 %	0.7 %	642.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1296 ppm	0.6071 ppm	1.0902 ppm	1.0234 ppm	1.1074 ppm	0.1272 ppm	0.0000 ppm
Concentration per Run 1	0.1314 ppm	0.6136 ppm	1.0998 ppm	1.0260 ppm	1.1187 ppm	0.1277 ppm	0.0001 ppm
Concentration per Run 2	0.1308 ppm	0.6092 ppm	1.0860 ppm	1.0197 ppm	1.1054 ppm	0.1292 ppm	-0.0003 ppm
Concentration per Run 3	0.1268 ppm	0.5985 ppm	1.0849 ppm	1.0245 ppm	1.0982 ppm	0.1248 ppm	0.0002 ppm
Concentration RSD	1.9 %	1.3 %	0.8 %	0.3 %	0.9 %	1.8 %	6,955.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.7734 %	101.9215 %	95.9538 %	98.4378 %	103.0993 %	99.5216 %
Concentration per Run 1	0.0005 ppm	92.7521 %	101.5519 %	96.0337 %	98.3367 %	102.9738 %	99.8130 %
Concentration per Run 2	0.0007 ppm	94.1340 %	102.0984 %	95.6080 %	98.7885 %	103.1028 %	99.3191 %
Concentration per Run 3	0.0008 ppm	94.4342 %	102.1143 %	96.2198 %	98.1881 %	103.2213 %	99.4328 %
Concentration RSD	21.2 %	1.0 %	0.3 %	0.3 %	0.3 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432723-04D2 WG1935256
Analysis started at: 6/18/2024 8:45:09 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	104.8157 ppm	0.0612 ppm	0.0167 ppm	1.2547 ppm	0.0051 ppm	62.3235 ppm
Concentration per Run 1	0.0005 ppm	104.5187 ppm	0.0605 ppm	0.0170 ppm	1.2545 ppm	0.0052 ppm	62.1783 ppm
Concentration per Run 2	0.0009 ppm	104.8421 ppm	0.0624 ppm	0.0163 ppm	1.2546 ppm	0.0051 ppm	62.3900 ppm
Concentration per Run 3	0.0009 ppm	105.0863 ppm	0.0606 ppm	0.0167 ppm	1.2549 ppm	0.0051 ppm	62.4023 ppm
Concentration RSD	31.1 %	0.3 %	1.8 %	2.2 %	0.0 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0855 ppm	0.2033 ppm	0.3195 ppm	205.0027 ppm	44.5625 ppm	0.1979 ppm
Concentration per Run 1	0.0020 ppm	0.0856 ppm	0.2047 ppm	0.3203 ppm	205.1138 ppm	44.5967 ppm	0.2008 ppm
Concentration per Run 2	0.0021 ppm	0.0864 ppm	0.2029 ppm	0.3219 ppm	205.0962 ppm	44.4516 ppm	0.1973 ppm
Concentration per Run 3	0.0020 ppm	0.0844 ppm	0.2023 ppm	0.3163 ppm	204.7981 ppm	44.6392 ppm	0.1956 ppm
Concentration RSD	4.7 %	1.2 %	0.6 %	0.9 %	0.1 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.0381 ppm	1.7288 ppm	0.0088 ppm	1.8266 ppm	0.1878 ppm	1.1365 ppm	0.0071 ppm
Concentration per Run 1	58.5343 ppm	1.7249 ppm	0.0086 ppm	1.8274 ppm	0.1893 ppm	1.1239 ppm	0.0083 ppm
Concentration per Run 2	58.0870 ppm	1.7310 ppm	0.0084 ppm	1.8320 ppm	0.1874 ppm	1.1478 ppm	0.0060 ppm
Concentration per Run 3	57.4928 ppm	1.7305 ppm	0.0095 ppm	1.8204 ppm	0.1867 ppm	1.1378 ppm	0.0070 ppm
Concentration RSD	0.9 %	0.2 %	6.7 %	0.3 %	0.7 %	1.1 %	15.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	5.1831 ppm	0.0552 ppm	0.2520 ppm	9.5175 ppm	0.0087 ppm	0.2779 ppm
Concentration per Run 1	0.0035 ppm	5.2176 ppm	0.0560 ppm	0.2530 ppm	9.5929 ppm	0.0075 ppm	0.2813 ppm
Concentration per Run 2	0.0025 ppm	5.2305 ppm	0.0555 ppm	0.2520 ppm	9.5079 ppm	0.0113 ppm	0.2760 ppm
Concentration per Run 3	0.0040 ppm	5.1011 ppm	0.0541 ppm	0.2510 ppm	9.4519 ppm	0.0071 ppm	0.2763 ppm
Concentration RSD	22.4 %	1.4 %	1.8 %	0.4 %	0.7 %	26.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9920 ppm	103.5339 %	108.6668 %	92.7379 %	108.8273 %	115.2533 %	109.9484 %
Concentration per Run 1	1.0033 ppm	102.8541 %	108.6178 %	93.9816 %	108.2080 %	115.1437 %	111.8293 %
Concentration per Run 2	0.9899 ppm	103.4056 %	108.0187 %	92.2306 %	108.9888 %	114.5143 %	109.0573 %
Concentration per Run 3	0.9827 ppm	104.3421 %	109.3638 %	92.0016 %	109.2852 %	116.1020 %	108.9585 %
Concentration RSD	1.1 %	0.7 %	0.6 %	1.2 %	0.5 %	0.7 %	1.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-26D2 WG1935256
Analysis started at: 6/18/2024 8:49:05 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	95.5825 ppm	0.0278 ppm	0.1654 ppm	6.6481 ppm	0.0100 ppm	13.2026 ppm
Concentration per Run 1	-0.0016 ppm	96.0675 ppm	0.0264 ppm	0.1646 ppm	6.6669 ppm	0.0100 ppm	13.1983 ppm
Concentration per Run 2	-0.0019 ppm	95.4397 ppm	0.0290 ppm	0.1678 ppm	6.6634 ppm	0.0101 ppm	13.2047 ppm
Concentration per Run 3	-0.0017 ppm	95.2402 ppm	0.0281 ppm	0.1637 ppm	6.6140 ppm	0.0101 ppm	13.2049 ppm
Concentration RSD	9.3 %	0.5 %	4.8 %	1.3 %	0.4 %	0.5 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.1560 ppm	0.3103 ppm	0.0939 ppm	362.2457 ppm	13.6115 ppm	0.3799 ppm
Concentration per Run 1	0.0020 ppm	0.1565 ppm	0.3111 ppm	0.0941 ppm	361.9227 ppm	13.6990 ppm	0.3810 ppm
Concentration per Run 2	0.0018 ppm	0.1554 ppm	0.3107 ppm	0.0933 ppm	362.6312 ppm	13.5837 ppm	0.3787 ppm
Concentration per Run 3	0.0020 ppm	0.1561 ppm	0.3091 ppm	0.0944 ppm	362.1833 ppm	13.5518 ppm	0.3801 ppm
Concentration RSD	6.8 %	0.4 %	0.3 %	0.6 %	0.1 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.1139 ppm	32.1176 ppm	0.0071 ppm	1.7918 ppm	0.3358 ppm	0.1704 ppm	0.0076 ppm
Concentration per Run 1	55.2072 ppm	32.1540 ppm	0.0068 ppm	1.7852 ppm	0.3383 ppm	0.1704 ppm	0.0110 ppm
Concentration per Run 2	55.1392 ppm	32.1248 ppm	0.0074 ppm	1.7884 ppm	0.3349 ppm	0.1706 ppm	0.0050 ppm
Concentration per Run 3	54.9953 ppm	32.0741 ppm	0.0072 ppm	1.8017 ppm	0.3342 ppm	0.1702 ppm	0.0066 ppm
Concentration RSD	0.2 %	0.1 %	4.6 %	0.5 %	0.7 %	0.1 %	40.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0056 ppm	4.0789 ppm	0.0081 ppm	0.0979 ppm	5.1589 ppm	-0.0002 ppm	0.4442 ppm
Concentration per Run 1	-0.0058 ppm	4.1101 ppm	0.0085 ppm	0.0973 ppm	5.1590 ppm	-0.0001 ppm	0.4433 ppm
Concentration per Run 2	-0.0063 ppm	4.0479 ppm	0.0079 ppm	0.0979 ppm	5.1748 ppm	-0.0008 ppm	0.4471 ppm
Concentration per Run 3	-0.0048 ppm	4.0787 ppm	0.0079 ppm	0.0984 ppm	5.1429 ppm	0.0002 ppm	0.4421 ppm
Concentration RSD	12.8 %	0.8 %	4.2 %	0.6 %	0.3 %	207.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6421 ppm	111.9473 %	117.4602 %	99.8211 %	143.8243 %	153.7402 %	145.5523 %
Concentration per Run 1	0.6445 ppm	111.5971 %	118.2820 %	100.0096 %	143.1958 %	154.4463 %	145.6532 %
Concentration per Run 2	0.6451 ppm	112.2064 %	116.9135 %	99.8301 %	144.0965 %	152.9327 %	145.5814 %
Concentration per Run 3	0.6369 ppm	112.0383 %	117.1852 %	99.6237 %	144.1805 %	153.8414 %	145.4223 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.2 %	0.4 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-45D2 WG1935256
Analysis started at: 6/18/2024 8:53:00 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	111.3349 ppm	0.2377 ppm	0.0217 ppm	0.9115 ppm	0.0136 ppm	19.2501 ppm
Concentration per Run 1	0.0002 ppm	111.6863 ppm	0.2358 ppm	0.0215 ppm	0.9154 ppm	0.0136 ppm	19.2560 ppm
Concentration per Run 2	0.0001 ppm	111.3930 ppm	0.2384 ppm	0.0221 ppm	0.9110 ppm	0.0136 ppm	19.2826 ppm
Concentration per Run 3	-0.0002 ppm	110.9254 ppm	0.2388 ppm	0.0214 ppm	0.9081 ppm	0.0136 ppm	19.2116 ppm
Concentration RSD	843.7 %	0.3 %	0.7 %	1.8 %	0.4 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.1484 ppm	0.2499 ppm	0.2621 ppm	347.3647 ppm	4.1142 ppm	0.1344 ppm
Concentration per Run 1	0.0011 ppm	0.1471 ppm	0.2488 ppm	0.2612 ppm	347.9683 ppm	4.1580 ppm	0.1354 ppm
Concentration per Run 2	0.0011 ppm	0.1493 ppm	0.2510 ppm	0.2625 ppm	347.6664 ppm	4.1353 ppm	0.1351 ppm
Concentration per Run 3	0.0013 ppm	0.1487 ppm	0.2498 ppm	0.2625 ppm	346.4594 ppm	4.0491 ppm	0.1326 ppm
Concentration RSD	9.8 %	0.7 %	0.4 %	0.3 %	0.2 %	1.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.6939 ppm	23.3168 ppm	0.0031 ppm	1.1043 ppm	0.1125 ppm	0.2832 ppm	0.0084 ppm
Concentration per Run 1	15.6164 ppm	23.3585 ppm	0.0029 ppm	1.1076 ppm	0.1123 ppm	0.2799 ppm	0.0080 ppm
Concentration per Run 2	15.7653 ppm	23.3075 ppm	0.0033 ppm	1.1016 ppm	0.1116 ppm	0.2857 ppm	0.0071 ppm
Concentration per Run 3	15.7001 ppm	23.2844 ppm	0.0031 ppm	1.1036 ppm	0.1136 ppm	0.2841 ppm	0.0101 ppm
Concentration RSD	0.5 %	0.2 %	5.9 %	0.3 %	0.9 %	1.1 %	18.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	6.2503 ppm	0.0149 ppm	0.1739 ppm	0.4162 ppm	-0.0025 ppm	0.4716 ppm
Concentration per Run 1	0.0047 ppm	6.2500 ppm	0.0141 ppm	0.1744 ppm	0.4069 ppm	-0.0011 ppm	0.4699 ppm
Concentration per Run 2	0.0038 ppm	6.2487 ppm	0.0152 ppm	0.1734 ppm	0.4272 ppm	-0.0025 ppm	0.4726 ppm
Concentration per Run 3	0.0023 ppm	6.2523 ppm	0.0153 ppm	0.1740 ppm	0.4147 ppm	-0.0038 ppm	0.4723 ppm
Concentration RSD	33.4 %	0.0 %	4.4 %	0.3 %	2.5 %	55.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3519 ppm	103.5837 %	110.3555 %	96.9843 %	110.9858 %	120.6152 %	112.9486 %
Concentration per Run 1	0.3503 ppm	104.9343 %	110.8911 %	97.1948 %	111.8391 %	121.5200 %	112.6283 %
Concentration per Run 2	0.3544 ppm	102.7205 %	109.9981 %	96.8489 %	110.2714 %	119.7559 %	113.2236 %
Concentration per Run 3	0.3509 ppm	103.0963 %	110.1774 %	96.9091 %	110.8470 %	120.5697 %	112.9939 %
Concentration RSD	0.6 %	1.1 %	0.4 %	0.2 %	0.7 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-46D2 WG1935256
Analysis started at: 6/18/2024 8:56:55 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	84.5738 ppm	0.0182 ppm	0.1534 ppm	2.1122 ppm	0.0072 ppm	17.2421 ppm
Concentration per Run 1	-0.0005 ppm	84.7376 ppm	0.0191 ppm	0.1534 ppm	2.1014 ppm	0.0073 ppm	17.3718 ppm
Concentration per Run 2	-0.0018 ppm	84.4494 ppm	0.0164 ppm	0.1549 ppm	2.1108 ppm	0.0071 ppm	17.2143 ppm
Concentration per Run 3	-0.0012 ppm	84.5343 ppm	0.0192 ppm	0.1519 ppm	2.1245 ppm	0.0071 ppm	17.1402 ppm
Concentration RSD	52.8 %	0.2 %	8.7 %	1.0 %	0.6 %	2.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.1228 ppm	0.2725 ppm	0.0870 ppm	294.8706 ppm	12.6598 ppm	0.4521 ppm
Concentration per Run 1	0.0009 ppm	0.1237 ppm	0.2726 ppm	0.0886 ppm	296.4957 ppm	12.6550 ppm	0.4548 ppm
Concentration per Run 2	0.0007 ppm	0.1227 ppm	0.2726 ppm	0.0852 ppm	294.1522 ppm	12.6364 ppm	0.4509 ppm
Concentration per Run 3	0.0009 ppm	0.1220 ppm	0.2722 ppm	0.0871 ppm	293.9638 ppm	12.6879 ppm	0.4506 ppm
Concentration RSD	17.2 %	0.7 %	0.1 %	2.0 %	0.5 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.7564 ppm	12.3226 ppm	0.0028 ppm	2.1180 ppm	0.3004 ppm	0.1391 ppm	0.0064 ppm
Concentration per Run 1	67.9668 ppm	12.3672 ppm	0.0031 ppm	2.1497 ppm	0.3016 ppm	0.1394 ppm	0.0057 ppm
Concentration per Run 2	67.7582 ppm	12.3098 ppm	0.0031 ppm	2.1037 ppm	0.3002 ppm	0.1395 ppm	0.0062 ppm
Concentration per Run 3	67.5441 ppm	12.2909 ppm	0.0023 ppm	2.1006 ppm	0.2993 ppm	0.1383 ppm	0.0074 ppm
Concentration RSD	0.3 %	0.3 %	16.1 %	1.3 %	0.4 %	0.5 %	14.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	5.0229 ppm	0.0060 ppm	0.0850 ppm	3.5490 ppm	0.0007 ppm	0.2926 ppm
Concentration per Run 1	0.0025 ppm	5.0370 ppm	0.0055 ppm	0.0857 ppm	3.5513 ppm	0.0003 ppm	0.2909 ppm
Concentration per Run 2	-0.0030 ppm	5.0432 ppm	0.0054 ppm	0.0848 ppm	3.5441 ppm	0.0019 ppm	0.2950 ppm
Concentration per Run 3	-0.0013 ppm	4.9885 ppm	0.0070 ppm	0.0846 ppm	3.5516 ppm	0.0000 ppm	0.2919 ppm
Concentration RSD	469.6 %	0.6 %	15.2 %	0.7 %	0.1 %	140.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6258 ppm	106.6927 %	112.5565 %	98.4611 %	129.4426 %	138.3527 %	130.8459 %
Concentration per Run 1	0.6281 ppm	106.2581 %	111.4102 %	98.5065 %	129.4285 %	138.1202 %	130.5932 %
Concentration per Run 2	0.6279 ppm	106.7417 %	112.8092 %	98.0943 %	129.1685 %	138.2669 %	130.9090 %
Concentration per Run 3	0.6213 ppm	107.0784 %	113.4503 %	98.7825 %	129.7308 %	138.6711 %	131.0355 %
Concentration RSD	0.6 %	0.4 %	0.9 %	0.4 %	0.2 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-47D2 WG1935256
Analysis started at: 6/18/2024 9:00:51 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	108.4644 ppm	0.5486 ppm	0.0271 ppm	0.8978 ppm	0.0087 ppm	17.0452 ppm
Concentration per Run 1	0.0017 ppm	108.6454 ppm	0.5504 ppm	0.0275 ppm	0.8995 ppm	0.0087 ppm	17.0924 ppm
Concentration per Run 2	0.0015 ppm	108.8500 ppm	0.5459 ppm	0.0282 ppm	0.9006 ppm	0.0087 ppm	17.0712 ppm
Concentration per Run 3	0.0019 ppm	107.8977 ppm	0.5493 ppm	0.0257 ppm	0.8933 ppm	0.0088 ppm	16.9719 ppm
Concentration RSD	9.5 %	0.5 %	0.4 %	4.6 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0715 ppm	0.4023 ppm	0.5120 ppm	170.2632 ppm	5.3709 ppm	0.2732 ppm
Concentration per Run 1	0.0039 ppm	0.0722 ppm	0.4054 ppm	0.5163 ppm	170.5749 ppm	5.4092 ppm	0.2773 ppm
Concentration per Run 2	0.0036 ppm	0.0714 ppm	0.4006 ppm	0.5117 ppm	170.5697 ppm	5.4225 ppm	0.2758 ppm
Concentration per Run 3	0.0037 ppm	0.0710 ppm	0.4009 ppm	0.5080 ppm	169.6450 ppm	5.2809 ppm	0.2665 ppm
Concentration RSD	3.6 %	0.9 %	0.7 %	0.8 %	0.3 %	1.5 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.1050 ppm	2.3449 ppm	0.0049 ppm	0.8995 ppm	0.1630 ppm	0.7748 ppm	0.0146 ppm
Concentration per Run 1	20.2235 ppm	2.3459 ppm	0.0043 ppm	0.9043 ppm	0.1638 ppm	0.7783 ppm	0.0113 ppm
Concentration per Run 2	20.0889 ppm	2.3514 ppm	0.0054 ppm	0.9006 ppm	0.1627 ppm	0.7703 ppm	0.0192 ppm
Concentration per Run 3	20.0027 ppm	2.3374 ppm	0.0052 ppm	0.8935 ppm	0.1626 ppm	0.7759 ppm	0.0133 ppm
Concentration RSD	0.6 %	0.3 %	11.9 %	0.6 %	0.4 %	0.5 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	5.4395 ppm	0.0299 ppm	0.1351 ppm	0.4401 ppm	0.0024 ppm	0.3153 ppm
Concentration per Run 1	0.0064 ppm	5.5359 ppm	0.0290 ppm	0.1354 ppm	0.4440 ppm	0.0025 ppm	0.3165 ppm
Concentration per Run 2	0.0027 ppm	5.3895 ppm	0.0308 ppm	0.1349 ppm	0.4395 ppm	0.0027 ppm	0.3156 ppm
Concentration per Run 3	0.0033 ppm	5.3930 ppm	0.0298 ppm	0.1351 ppm	0.4369 ppm	0.0018 ppm	0.3137 ppm
Concentration RSD	47.7 %	1.5 %	3.0 %	0.2 %	0.8 %	20.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4364 ppm	102.8437 %	112.2071 %	99.4494 %	116.5819 %	127.1753 %	117.7610 %
Concentration per Run 1	1.4471 ppm	102.2579 %	111.9357 %	99.3228 %	116.1712 %	126.9061 %	117.9591 %
Concentration per Run 2	1.4329 ppm	103.0477 %	112.3773 %	99.5630 %	116.6088 %	127.8533 %	117.6357 %
Concentration per Run 3	1.4291 ppm	103.2254 %	112.3085 %	99.4624 %	116.9658 %	126.7666 %	117.6882 %
Concentration RSD	0.7 %	0.5 %	0.2 %	0.1 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-48D2 WG1935256
Analysis started at: 6/18/2024 9:04:47 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0017 ppm	90.8280 ppm	0.0235 ppm	0.1552 ppm	6.2049 ppm	0.0090 ppm	22.7195 ppm
Concentration per Run 1	-0.0011 ppm	90.8746 ppm	0.0229 ppm	0.1546 ppm	6.2166 ppm	0.0091 ppm	22.7223 ppm
Concentration per Run 2	-0.0021 ppm	90.9147 ppm	0.0254 ppm	0.1564 ppm	6.2032 ppm	0.0090 ppm	22.7588 ppm
Concentration per Run 3	-0.0019 ppm	90.6948 ppm	0.0222 ppm	0.1546 ppm	6.1951 ppm	0.0089 ppm	22.6774 ppm
Concentration RSD	33.5 %	0.1 %	7.1 %	0.7 %	0.2 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1390 ppm	0.2659 ppm	0.0820 ppm	278.6113 ppm	21.5703 ppm	0.4399 ppm
Concentration per Run 1	0.0017 ppm	0.1393 ppm	0.2662 ppm	0.0828 ppm	280.0453 ppm	21.6355 ppm	0.4411 ppm
Concentration per Run 2	0.0015 ppm	0.1392 ppm	0.2662 ppm	0.0811 ppm	277.8985 ppm	21.5783 ppm	0.4410 ppm
Concentration per Run 3	0.0017 ppm	0.1386 ppm	0.2653 ppm	0.0820 ppm	277.8901 ppm	21.4970 ppm	0.4375 ppm
Concentration RSD	6.7 %	0.2 %	0.2 %	1.0 %	0.4 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	71.8887 ppm	30.3198 ppm	0.0030 ppm	2.4943 ppm	0.2939 ppm	0.1777 ppm	0.0061 ppm
Concentration per Run 1	72.2626 ppm	30.3908 ppm	0.0035 ppm	2.5097 ppm	0.2960 ppm	0.1768 ppm	0.0070 ppm
Concentration per Run 2	71.8612 ppm	30.3076 ppm	0.0027 ppm	2.4874 ppm	0.2943 ppm	0.1769 ppm	0.0046 ppm
Concentration per Run 3	71.5423 ppm	30.2611 ppm	0.0028 ppm	2.4859 ppm	0.2915 ppm	0.1794 ppm	0.0067 ppm
Concentration RSD	0.5 %	0.2 %	14.8 %	0.5 %	0.8 %	0.8 %	21.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0052 ppm	4.3345 ppm	0.0063 ppm	0.1208 ppm	5.5047 ppm	0.0021 ppm	0.3735 ppm
Concentration per Run 1	-0.0044 ppm	4.3498 ppm	0.0057 ppm	0.1217 ppm	5.5188 ppm	0.0012 ppm	0.3732 ppm
Concentration per Run 2	-0.0070 ppm	4.3299 ppm	0.0065 ppm	0.1205 ppm	5.5091 ppm	0.0032 ppm	0.3756 ppm
Concentration per Run 3	-0.0042 ppm	4.3238 ppm	0.0067 ppm	0.1203 ppm	5.4862 ppm	0.0019 ppm	0.3716 ppm
Concentration RSD	29.8 %	0.3 %	8.5 %	0.6 %	0.3 %	47.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6419 ppm	109.0180 %	113.6623 %	97.7273 %	142.3939 %	**150.0791 %**	143.0826 %
Concentration per Run 1	0.6424 ppm	109.0419 %	113.4143 %	97.8566 %	142.4489 %	**150.3726 %**	143.1296 %
Concentration per Run 2	0.6458 ppm	108.8904 %	114.3380 %	97.8230 %	142.3374 %	**150.7222 %**	143.3749 %
Concentration per Run 3	0.6376 ppm	109.1217 %	113.2345 %	97.5024 %	142.3953 %	**149.1424 %**	142.7433 %
Concentration RSD	0.6 %	0.1 %	0.5 %	0.2 %	0.0 %	**0.6 %**	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:08:44 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5154 ppm	0.5082 ppm	0.4875 ppm	0.5122 ppm	0.5169 ppm	0.5173 ppm	0.5037 ppm
Concentration per Run 1	0.5120 ppm	0.5057 ppm	0.4869 ppm	0.5086 ppm	0.5160 ppm	0.5148 ppm	0.5052 ppm
Concentration per Run 2	0.5159 ppm	0.5095 ppm	0.4873 ppm	0.5146 ppm	0.5173 ppm	0.5191 ppm	0.5007 ppm
Concentration per Run 3	0.5182 ppm	0.5094 ppm	0.4884 ppm	0.5133 ppm	0.5174 ppm	0.5179 ppm	0.5051 ppm
Recovery Percentage 1	103.080 %	101.638 %	97.504 %	102.436 %	103.376 %	103.455 %	100.737 %
Concentration RSD	0.6 %	0.4 %	0.2 %	0.6 %	0.2 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5216 ppm	0.5227 ppm	0.5151 ppm	0.5028 ppm	0.5364 ppm	5.2665 ppm	0.4910 ppm
Concentration per Run 1	0.5208 ppm	0.5223 ppm	0.5120 ppm	0.5009 ppm	0.5367 ppm	5.2680 ppm	0.4901 ppm
Concentration per Run 2	0.5212 ppm	0.5225 ppm	0.5166 ppm	0.5036 ppm	0.5367 ppm	5.2200 ppm	0.4887 ppm
Concentration per Run 3	0.5226 ppm	0.5232 ppm	0.5166 ppm	0.5039 ppm	0.5359 ppm	5.3116 ppm	0.4940 ppm
Recovery Percentage 1	104.311 %	104.536 %	103.010 %	100.555 %	107.285 %	105.331 %	98.194 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.3 %	0.1 %	0.9 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5087 ppm	0.5035 ppm	0.5114 ppm	10.5067 ppm	0.5290 ppm	0.5065 ppm	0.5042 ppm
Concentration per Run 1	0.5093 ppm	0.5039 ppm	0.5024 ppm	10.4879 ppm	0.5275 ppm	0.5071 ppm	0.5022 ppm
Concentration per Run 2	0.5094 ppm	0.5013 ppm	0.5130 ppm	10.5207 ppm	0.5294 ppm	0.5054 ppm	0.5043 ppm
Concentration per Run 3	0.5073 ppm	0.5053 ppm	0.5189 ppm	10.5116 ppm	0.5301 ppm	0.5069 ppm	0.5062 ppm
Recovery Percentage 1	101.735 %	100.697 %	102.289 %	105.067 %	105.803 %	101.296 %	100.848 %
Concentration RSD	0.2 %	0.4 %	1.6 %	0.2 %	0.3 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5011 ppm	5.3433 ppm	0.5410 ppm	0.5114 ppm	0.5198 ppm	0.4995 ppm	0.5120 ppm
Concentration per Run 1	0.4947 ppm	5.3176 ppm	0.5371 ppm	0.5092 ppm	0.5184 ppm	0.4997 ppm	0.5103 ppm
Concentration per Run 2	0.5027 ppm	5.3490 ppm	0.5419 ppm	0.5117 ppm	0.5209 ppm	0.4968 ppm	0.5134 ppm
Concentration per Run 3	0.5059 ppm	5.3633 ppm	0.5441 ppm	0.5133 ppm	0.5202 ppm	0.5019 ppm	0.5122 ppm
Recovery Percentage 1	100.218 %	101.777 %	108.204 %	102.276 %	103.966 %	99.902 %	102.391 %
Concentration RSD	1.2 %	0.4 %	0.7 %	0.4 %	0.2 %	0.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5310 ppm	99.3773 %	104.2593 %	100.0265 %	97.7333 %	102.4981 %	98.6835 %
Concentration per Run 1	0.5291 ppm	99.0639 %	104.6045 %	99.8411 %	97.4646 %	102.8286 %	98.4530 %
Concentration per Run 2	0.5330 ppm	99.9584 %	104.4882 %	100.0254 %	98.4172 %	102.4540 %	98.6260 %
Concentration per Run 3	0.5308 ppm	99.1096 %	103.6853 %	100.2130 %	97.3181 %	102.2117 %	98.9715 %
Recovery Percentage 1	106.194 %						
Concentration RSD	0.4 %	0.5 %	0.5 %	0.2 %	0.6 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:12:40 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0112 ppm	0.0002 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	-0.0043 ppm
Concentration per Run 1	0.0002 ppm	-0.0103 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 2	-0.0002 ppm	-0.0136 ppm	-0.0014 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 3	0.0002 ppm	-0.0097 ppm	0.0017 ppm	0.0019 ppm	-0.0004 ppm	0.0000 ppm	-0.0081 ppm
Recovery Percentage 1	0.976 %	-11.218 %	6.260 %	2.889 %	-1.639 %	0.168 %	-4.265 %
Concentration RSD	298.9 %	18.7 %	806.6 %	112.3 %	118.5 %	674.7 %	79.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0054 ppm	0.0351 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0034 ppm	0.0502 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0075 ppm	0.0406 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0053 ppm	0.0145 ppm	-0.0002 ppm
Recovery Percentage 1	-0.388 %	-0.007 %	-1.678 %	-0.738 %	10.809 %	1.404 %	-1.243 %
Concentration RSD	244.1 %	19,281.5 %	217.9 %	509.9 %	37.4 %	52.7 %	371.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0003 ppm	-0.0013 ppm	0.0067 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0026 ppm	0.0003 ppm	-0.0013 ppm	0.0017 ppm	0.0016 ppm	-0.0006 ppm	0.0029 ppm
Concentration per Run 2	-0.0015 ppm	0.0003 ppm	-0.0010 ppm	0.0039 ppm	0.0007 ppm	0.0004 ppm	-0.0034 ppm
Concentration per Run 3	-0.0008 ppm	0.0003 ppm	-0.0016 ppm	0.0145 ppm	-0.0001 ppm	-0.0001 ppm	-0.0006 ppm
Recovery Percentage 1	-1.637 %	3.315 %	-2.669 %	0.334 %	2.929 %	-1.031 %	-0.678 %
Concentration RSD	52.5 %	2.9 %	21.4 %	102.6 %	112.5 %	500.3 %	939.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0009 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm	-0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0021 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0003 ppm	0.0029 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	-0.0014 ppm	-0.0003 ppm
Recovery Percentage 1	-0.575 %	0.186 %	1.761 %	1.271 %	-3.510 %	-5.217 %	-1.961 %
Concentration RSD	3,342.8 %	183.6 %	75.7 %	116.2 %	75.8 %	31.6 %	76.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.9988 %	100.4228 %	96.1894 %	98.1161 %	103.1491 %	99.7616 %
Concentration per Run 1	0.0006 ppm	91.7535 %	100.9262 %	95.5552 %	97.4460 %	103.7015 %	99.5847 %
Concentration per Run 2	0.0005 ppm	92.7625 %	100.1214 %	96.4731 %	97.9364 %	102.6876 %	100.1394 %
Concentration per Run 3	0.0005 ppm	94.4804 %	100.2207 %	96.5398 %	98.9657 %	103.0583 %	99.5607 %
Recovery Percentage 1	10.303 %						
Concentration RSD	12.2 %	1.5 %	0.4 %	0.6 %	0.8 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-1 WG1935259
Analysis started at: 6/18/2024 9:24:26 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0265 ppm
Concentration per Run 1	0.0004 ppm	0.0017 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0256 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	-0.0018 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0291 ppm
Concentration per Run 3	0.0004 ppm	-0.0006 ppm	0.0011 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0246 ppm
Recovery Percentage 1	1.590 %	0.452 %	5.158 %	-1.125 %	1.382 %	-0.716 %	26.454 %
Concentration RSD	493.0 %	248.1 %	1,100.4 %	146.7 %	99.2 %	26.4 %	8.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0222 ppm	0.0542 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	0.0231 ppm	0.0754 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0008 ppm	0.0013 ppm	0.0228 ppm	0.0285 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0208 ppm	0.0588 ppm	0.0002 ppm
Recovery Percentage 1	-2.178 %	-1.174 %	5.022 %	9.975 %	44.462 %	2.169 %	-2.354 %
Concentration RSD	81.5 %	112.4 %	65.3 %	33.9 %	5.5 %	43.9 %	565.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0040 ppm	0.0007 ppm	-0.0027 ppm	0.0389 ppm	0.0014 ppm	0.0006 ppm	-0.0021 ppm
Concentration per Run 1	0.0052 ppm	0.0009 ppm	-0.0027 ppm	0.0358 ppm	0.0022 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 2	0.0031 ppm	0.0008 ppm	-0.0024 ppm	0.0408 ppm	0.0006 ppm	0.0006 ppm	-0.0031 ppm
Concentration per Run 3	0.0039 ppm	0.0006 ppm	-0.0029 ppm	0.0402 ppm	0.0014 ppm	0.0004 ppm	-0.0026 ppm
Recovery Percentage 1	4.039 %	7.473 %	-5.347 %	1.947 %	5.626 %	5.797 %	-4.212 %
Concentration RSD	26.5 %	19.7 %	10.4 %	7.0 %	57.9 %	31.4 %	62.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0049 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	0.0057 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0017 ppm	-0.0002 ppm
Concentration per Run 2	-0.0018 ppm	0.0063 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0028 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	-5.479 %	0.988 %	0.850 %	2.796 %	-0.199 %	-6.069 %	-0.143 %
Concentration RSD	230.7 %	37.2 %	127.0 %	17.3 %	108.7 %	69.7 %	1,188.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0038 ppm	99.9189 %	102.7310 %	101.3818 %	103.3124 %	103.4902 %	102.6830 %
Concentration per Run 1	0.0037 ppm	99.3485 %	103.0038 %	101.1325 %	103.1677 %	103.9847 %	102.8245 %
Concentration per Run 2	0.0039 ppm	99.8505 %	102.8077 %	101.5912 %	103.2723 %	103.7850 %	102.7866 %
Concentration per Run 3	0.0037 ppm	100.5578 %	102.3814 %	101.4218 %	103.4972 %	102.7009 %	102.4377 %
Recovery Percentage 1	75.193 %						
Concentration RSD	2.7 %	0.6 %	0.3 %	0.2 %	0.2 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-49D2 WG1935256
Analysis started at: 6/18/2024 9:28:37 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	92.1909 ppm	0.0646 ppm	0.0255 ppm	0.5316 ppm	0.0044 ppm	8.2668 ppm
Concentration per Run 1	0.0005 ppm	92.1750 ppm	0.0636 ppm	0.0259 ppm	0.5323 ppm	0.0043 ppm	8.2642 ppm
Concentration per Run 2	0.0001 ppm	92.1966 ppm	0.0631 ppm	0.0235 ppm	0.5312 ppm	0.0044 ppm	8.2522 ppm
Concentration per Run 3	0.0004 ppm	92.2012 ppm	0.0669 ppm	0.0271 ppm	0.5313 ppm	0.0044 ppm	8.2840 ppm
Concentration RSD	62.2 %	0.0 %	3.2 %	7.3 %	0.1 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0562 ppm	0.1714 ppm	0.0995 ppm	188.5431 ppm	4.6786 ppm	0.1493 ppm
Concentration per Run 1	0.0005 ppm	0.0560 ppm	0.1719 ppm	0.1002 ppm	188.4152 ppm	4.7410 ppm	0.1528 ppm
Concentration per Run 2	0.0003 ppm	0.0564 ppm	0.1706 ppm	0.0981 ppm	188.1799 ppm	4.6453 ppm	0.1472 ppm
Concentration per Run 3	0.0007 ppm	0.0561 ppm	0.1718 ppm	0.1003 ppm	189.0343 ppm	4.6494 ppm	0.1477 ppm
Concentration RSD	37.1 %	0.3 %	0.4 %	1.2 %	0.2 %	1.2 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5456 ppm	2.9717 ppm	0.0030 ppm	0.6325 ppm	0.1102 ppm	0.1567 ppm	0.0038 ppm
Concentration per Run 1	21.5906 ppm	2.9710 ppm	0.0029 ppm	0.6314 ppm	0.1112 ppm	0.1571 ppm	0.0060 ppm
Concentration per Run 2	21.5073 ppm	2.9708 ppm	0.0030 ppm	0.6357 ppm	0.1100 ppm	0.1566 ppm	-0.0017 ppm
Concentration per Run 3	21.5390 ppm	2.9734 ppm	0.0030 ppm	0.6303 ppm	0.1095 ppm	0.1566 ppm	0.0071 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.4 %	0.8 %	0.2 %	127.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	4.7376 ppm	0.0093 ppm	0.0724 ppm	0.9738 ppm	0.0005 ppm	0.2668 ppm
Concentration per Run 1	0.0055 ppm	4.6957 ppm	0.0101 ppm	0.0725 ppm	0.9727 ppm	0.0013 ppm	0.2664 ppm
Concentration per Run 2	0.0035 ppm	4.7343 ppm	0.0084 ppm	0.0721 ppm	0.9749 ppm	0.0003 ppm	0.2686 ppm
Concentration per Run 3	0.0006 ppm	4.7830 ppm	0.0093 ppm	0.0726 ppm	0.9737 ppm	-0.0001 ppm	0.2654 ppm
Concentration RSD	76.1 %	0.9 %	9.1 %	0.4 %	0.1 %	153.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4736 ppm	102.3650 %	107.9270 %	98.3177 %	103.5076 %	110.3228 %	104.2881 %
Concentration per Run 1	0.4741 ppm	102.2597 %	108.5260 %	98.5725 %	103.4290 %	110.9408 %	104.1875 %
Concentration per Run 2	0.4738 ppm	102.3930 %	107.9664 %	97.7754 %	103.3995 %	110.2007 %	103.7917 %
Concentration per Run 3	0.4729 ppm	102.4422 %	107.2884 %	98.6053 %	103.6942 %	109.8269 %	104.8851 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.5 %	0.2 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-50D2 WG1935256
Analysis started at: 6/18/2024 9:33:31 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0013 ppm	117.7093 ppm	0.0288 ppm	0.1665 ppm	1.3782 ppm	0.0145 ppm	15.1980 ppm
Concentration per Run 1	-0.0013 ppm	117.9300 ppm	0.0298 ppm	0.1665 ppm	1.3804 ppm	0.0147 ppm	15.2455 ppm
Concentration per Run 2	-0.0012 ppm	117.2128 ppm	0.0284 ppm	0.1669 ppm	1.3715 ppm	0.0144 ppm	15.1279 ppm
Concentration per Run 3	-0.0012 ppm	117.9852 ppm	0.0281 ppm	0.1660 ppm	1.3827 ppm	0.0145 ppm	15.2207 ppm
Concentration RSD	5.0 %	0.4 %	3.1 %	0.3 %	0.4 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1684 ppm	0.3246 ppm	0.0746 ppm	355.6047 ppm	28.6694 ppm	0.4521 ppm
Concentration per Run 1	0.0013 ppm	0.1688 ppm	0.3248 ppm	0.0740 ppm	357.9241 ppm	28.8675 ppm	0.4558 ppm
Concentration per Run 2	0.0011 ppm	0.1679 ppm	0.3254 ppm	0.0750 ppm	353.1294 ppm	28.4756 ppm	0.4478 ppm
Concentration per Run 3	0.0012 ppm	0.1684 ppm	0.3235 ppm	0.0748 ppm	355.7605 ppm	28.6651 ppm	0.4529 ppm
Concentration RSD	7.9 %	0.2 %	0.3 %	0.7 %	0.7 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.8581 ppm	8.1802 ppm	0.0047 ppm	2.6800 ppm	0.3853 ppm	0.2383 ppm	0.0096 ppm
Concentration per Run 1	80.1406 ppm	8.1939 ppm	0.0046 ppm	2.6995 ppm	0.3885 ppm	0.2383 ppm	0.0109 ppm
Concentration per Run 2	79.7642 ppm	8.1633 ppm	0.0048 ppm	2.6548 ppm	0.3834 ppm	0.2365 ppm	0.0072 ppm
Concentration per Run 3	79.6695 ppm	8.1833 ppm	0.0046 ppm	2.6857 ppm	0.3838 ppm	0.2400 ppm	0.0108 ppm
Concentration RSD	0.3 %	0.2 %	1.8 %	0.9 %	0.7 %	0.7 %	21.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	4.4108 ppm	0.0074 ppm	0.1220 ppm	7.4763 ppm	0.0093 ppm	0.4246 ppm
Concentration per Run 1	-0.0032 ppm	4.4497 ppm	0.0079 ppm	0.1230 ppm	7.4853 ppm	0.0071 ppm	0.4247 ppm
Concentration per Run 2	-0.0051 ppm	4.3930 ppm	0.0076 ppm	0.1211 ppm	7.4773 ppm	0.0115 ppm	0.4242 ppm
Concentration per Run 3	-0.0026 ppm	4.3898 ppm	0.0066 ppm	0.1219 ppm	7.4663 ppm	0.0095 ppm	0.4248 ppm
Concentration RSD	37.1 %	0.8 %	8.7 %	0.8 %	0.1 %	23.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8015 ppm	112.9691 %	113.6619 %	98.1497 %	**180.8563 %**	**185.1024 %**	**181.2575 %**
Concentration per Run 1	0.8046 ppm	112.6451 %	112.5335 %	98.3086 %	**179.9983 %**	**183.9081 %**	**181.1381 %**
Concentration per Run 2	0.8017 ppm	113.5851 %	114.6217 %	97.9813 %	**181.9184 %**	**185.3374 %**	**180.7981 %**
Concentration per Run 3	0.7981 ppm	112.6771 %	113.8304 %	98.1591 %	**180.6522 %**	**186.0618 %**	**181.8364 %**
Concentration RSD	0.4 %	0.5 %	0.9 %	0.2 %	**0.5 %**	**0.6 %**	**0.3 %**

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-55D2 WG1935256
Analysis started at: 6/18/2024 9:37:36 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	139.6350 ppm	0.0430 ppm	0.1380 ppm	1.0627 ppm	0.0102 ppm	40.1803 ppm
Concentration per Run 1	-0.0006 ppm	140.1119 ppm	0.0426 ppm	0.1386 ppm	1.0640 ppm	0.0103 ppm	40.3105 ppm
Concentration per Run 2	-0.0001 ppm	139.0871 ppm	0.0453 ppm	0.1369 ppm	1.0547 ppm	0.0103 ppm	40.2961 ppm
Concentration per Run 3	0.0004 ppm	139.7059 ppm	0.0411 ppm	0.1384 ppm	1.0693 ppm	0.0100 ppm	39.9344 ppm
Concentration RSD	735.5 %	0.4 %	4.9 %	0.7 %	0.7 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.1622 ppm	0.3139 ppm	0.1621 ppm	319.5922 ppm	18.8773 ppm	0.5080 ppm
Concentration per Run 1	0.0013 ppm	0.1614 ppm	0.3121 ppm	0.1607 ppm	321.1798 ppm	19.0197 ppm	0.5110 ppm
Concentration per Run 2	0.0018 ppm	0.1635 ppm	0.3140 ppm	0.1614 ppm	317.8727 ppm	18.5460 ppm	0.5017 ppm
Concentration per Run 3	0.0017 ppm	0.1617 ppm	0.3155 ppm	0.1642 ppm	319.7240 ppm	19.0664 ppm	0.5115 ppm
Concentration RSD	17.9 %	0.7 %	0.5 %	1.1 %	0.5 %	1.5 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	81.9259 ppm	6.3492 ppm	0.0021 ppm	1.7220 ppm	0.3502 ppm	0.3189 ppm	0.0058 ppm
Concentration per Run 1	81.9012 ppm	6.3719 ppm	0.0023 ppm	1.7318 ppm	0.3485 ppm	0.3199 ppm	0.0074 ppm
Concentration per Run 2	81.8982 ppm	6.3427 ppm	0.0022 ppm	1.7309 ppm	0.3499 ppm	0.3173 ppm	0.0040 ppm
Concentration per Run 3	81.9784 ppm	6.3330 ppm	0.0019 ppm	1.7033 ppm	0.3521 ppm	0.3194 ppm	0.0060 ppm
Concentration RSD	0.1 %	0.3 %	8.3 %	0.9 %	0.5 %	0.4 %	30.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0022 ppm	4.8581 ppm	0.0086 ppm	0.1800 ppm	4.3390 ppm	0.0060 ppm	0.3881 ppm
Concentration per Run 1	-0.0021 ppm	4.7824 ppm	0.0092 ppm	0.1806 ppm	4.3288 ppm	0.0033 ppm	0.3890 ppm
Concentration per Run 2	-0.0018 ppm	4.8489 ppm	0.0081 ppm	0.1800 ppm	4.3411 ppm	0.0085 ppm	0.3888 ppm
Concentration per Run 3	-0.0027 ppm	4.9428 ppm	0.0084 ppm	0.1793 ppm	4.3471 ppm	0.0060 ppm	0.3864 ppm
Concentration RSD	21.8 %	1.7 %	6.3 %	0.4 %	0.2 %	43.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8409 ppm	106.3016 %	111.0630 %	96.1032 %	127.4271 %	135.6668 %	127.9844 %
Concentration per Run 1	0.8366 ppm	106.5426 %	111.0978 %	96.1194 %	127.7619 %	136.1691 %	128.5049 %
Concentration per Run 2	0.8437 ppm	106.4870 %	110.2322 %	96.6598 %	127.4217 %	134.5546 %	127.8851 %
Concentration per Run 3	0.8426 ppm	105.8754 %	111.8589 %	95.5304 %	127.0978 %	136.2766 %	127.5632 %
Concentration RSD	0.5 %	0.3 %	0.7 %	0.6 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-56D2 WG1935256
Analysis started at: 6/18/2024 9:41:34 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	141.3968 ppm	0.0322 ppm	0.2227 ppm	1.5004 ppm	0.0152 ppm	30.8098 ppm
Concentration per Run 1	-0.0013 ppm	140.9989 ppm	0.0327 ppm	0.2230 ppm	1.4989 ppm	0.0153 ppm	30.8389 ppm
Concentration per Run 2	-0.0015 ppm	141.9450 ppm	0.0324 ppm	0.2222 ppm	1.5142 ppm	0.0150 ppm	30.7214 ppm
Concentration per Run 3	-0.0015 ppm	141.2465 ppm	0.0316 ppm	0.2229 ppm	1.4880 ppm	0.0153 ppm	30.8690 ppm
Concentration RSD	8.8 %	0.3 %	1.8 %	0.2 %	0.9 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1810 ppm	0.3532 ppm	0.0669 ppm	383.4487 ppm	40.0592 ppm	0.6203 ppm
Concentration per Run 1	0.0007 ppm	0.1816 ppm	0.3535 ppm	0.0673 ppm	384.7834 ppm	39.7428 ppm	0.6201 ppm
Concentration per Run 2	0.0007 ppm	0.1810 ppm	0.3528 ppm	0.0673 ppm	382.8411 ppm	40.3282 ppm	0.6249 ppm
Concentration per Run 3	0.0007 ppm	0.1803 ppm	0.3532 ppm	0.0661 ppm	382.7216 ppm	40.1065 ppm	0.6159 ppm
Concentration RSD	5.4 %	0.4 %	0.1 %	1.0 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	109.3681 ppm	6.3523 ppm	0.0029 ppm	2.4480 ppm	0.4314 ppm	0.2685 ppm	0.0073 ppm
Concentration per Run 1	109.0350 ppm	6.3587 ppm	0.0026 ppm	2.4533 ppm	0.4328 ppm	0.2677 ppm	0.0087 ppm
Concentration per Run 2	109.4148 ppm	6.3515 ppm	0.0027 ppm	2.4312 ppm	0.4302 ppm	0.2682 ppm	0.0076 ppm
Concentration per Run 3	109.6545 ppm	6.3467 ppm	0.0035 ppm	2.4595 ppm	0.4312 ppm	0.2697 ppm	0.0056 ppm
Concentration RSD	0.3 %	0.1 %	16.5 %	0.6 %	0.3 %	0.4 %	21.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	4.6636 ppm	0.0085 ppm	0.1634 ppm	7.7236 ppm	0.0085 ppm	0.4214 ppm
Concentration per Run 1	-0.0004 ppm	4.6829 ppm	0.0085 ppm	0.1645 ppm	7.6965 ppm	0.0056 ppm	0.4201 ppm
Concentration per Run 2	-0.0041 ppm	4.6530 ppm	0.0088 ppm	0.1620 ppm	7.7255 ppm	0.0104 ppm	0.4200 ppm
Concentration per Run 3	-0.0044 ppm	4.6549 ppm	0.0081 ppm	0.1637 ppm	7.7488 ppm	0.0096 ppm	0.4242 ppm
Concentration RSD	75.4 %	0.4 %	3.9 %	0.8 %	0.3 %	30.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9587 ppm	108.9351 %	115.1380 %	93.9673 %	155.0246 %	167.5220 %	156.1648 %
Concentration per Run 1	0.9611 ppm	109.3642 %	115.7817 %	94.3852 %	155.2205 %	168.3568 %	156.3741 %
Concentration per Run 2	0.9572 ppm	108.8076 %	115.8503 %	93.8805 %	154.9489 %	168.3673 %	155.9362 %
Concentration per Run 3	0.9577 ppm	108.6336 %	113.7819 %	93.6363 %	154.9045 %	165.8419 %	156.1841 %
Concentration RSD	0.2 %	0.4 %	1.0 %	0.4 %	0.1 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-58D2 WG1935256
Analysis started at: 6/18/2024 9:45:31 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	160.0348 ppm	0.0664 ppm	0.0624 ppm	0.5780 ppm	0.0082 ppm	11.3803 ppm
Concentration per Run 1	-0.0005 ppm	160.4271 ppm	0.0684 ppm	0.0632 ppm	0.5814 ppm	0.0080 ppm	11.3786 ppm
Concentration per Run 2	-0.0011 ppm	159.9430 ppm	0.0642 ppm	0.0631 ppm	0.5756 ppm	0.0083 ppm	11.4064 ppm
Concentration per Run 3	-0.0005 ppm	159.7344 ppm	0.0666 ppm	0.0611 ppm	0.5769 ppm	0.0082 ppm	11.3559 ppm
Concentration RSD	50.1 %	0.2 %	3.2 %	1.9 %	0.5 %	1.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.1005 ppm	0.2782 ppm	0.2454 ppm	389.3777 ppm	12.3956 ppm	0.2566 ppm
Concentration per Run 1	0.0001 ppm	0.0998 ppm	0.2761 ppm	0.2442 ppm	389.5087 ppm	12.5433 ppm	0.2545 ppm
Concentration per Run 2	0.0002 ppm	0.1009 ppm	0.2790 ppm	0.2449 ppm	390.0674 ppm	12.2928 ppm	0.2570 ppm
Concentration per Run 3	0.0005 ppm	0.1008 ppm	0.2795 ppm	0.2472 ppm	388.5570 ppm	12.3507 ppm	0.2584 ppm
Concentration RSD	74.0 %	0.6 %	0.7 %	0.6 %	0.2 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.5998 ppm	4.9910 ppm	0.0011 ppm	1.6821 ppm	0.2040 ppm	0.1775 ppm	0.0085 ppm
Concentration per Run 1	43.5371 ppm	4.9912 ppm	0.0006 ppm	1.6768 ppm	0.2024 ppm	0.1784 ppm	0.0079 ppm
Concentration per Run 2	43.5783 ppm	4.9900 ppm	0.0014 ppm	1.6908 ppm	0.2037 ppm	0.1768 ppm	0.0083 ppm
Concentration per Run 3	43.6840 ppm	4.9918 ppm	0.0014 ppm	1.6788 ppm	0.2059 ppm	0.1774 ppm	0.0093 ppm
Concentration RSD	0.2 %	0.0 %	38.4 %	0.5 %	0.9 %	0.5 %	8.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0037 ppm	4.8011 ppm	0.0067 ppm	0.0956 ppm	3.1972 ppm	0.0043 ppm	0.3817 ppm
Concentration per Run 1	0.0024 ppm	4.7400 ppm	0.0066 ppm	0.0952 ppm	3.1803 ppm	0.0041 ppm	0.3798 ppm
Concentration per Run 2	0.0052 ppm	4.8469 ppm	0.0068 ppm	0.0967 ppm	3.2042 ppm	0.0045 ppm	0.3836 ppm
Concentration per Run 3	0.0035 ppm	4.8164 ppm	0.0066 ppm	0.0950 ppm	3.2071 ppm	0.0044 ppm	0.3818 ppm
Concentration RSD	38.0 %	1.1 %	1.3 %	1.0 %	0.5 %	5.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4687 ppm	107.8693 %	112.7879 %	98.4262 %	112.2383 %	119.4467 %	113.4495 %
Concentration per Run 1	0.4654 ppm	108.3849 %	113.6939 %	98.4419 %	112.2215 %	120.1127 %	113.6863 %
Concentration per Run 2	0.4689 ppm	107.6001 %	112.2876 %	98.8122 %	112.0298 %	119.4250 %	113.6246 %
Concentration per Run 3	0.4719 ppm	107.6229 %	112.3821 %	98.0244 %	112.4635 %	118.8024 %	113.0376 %
Concentration RSD	0.7 %	0.4 %	0.7 %	0.4 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-60D2 WG1935256
Analysis started at: 6/18/2024 9:49:29 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	138.0520 ppm	0.0749 ppm	0.1200 ppm	1.4584 ppm	0.0096 ppm	65.1620 ppm
Concentration per Run 1	0.0007 ppm	137.5556 ppm	0.0745 ppm	0.1203 ppm	1.4543 ppm	0.0096 ppm	65.0049 ppm
Concentration per Run 2	0.0007 ppm	138.3691 ppm	0.0763 ppm	0.1209 ppm	1.4659 ppm	0.0096 ppm	65.1941 ppm
Concentration per Run 3	0.0012 ppm	138.2314 ppm	0.0739 ppm	0.1186 ppm	1.4548 ppm	0.0096 ppm	65.2871 ppm
Concentration RSD	29.3 %	0.3 %	1.7 %	1.0 %	0.4 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.1347 ppm	0.3171 ppm	0.3893 ppm	297.6272 ppm	13.8953 ppm	0.3408 ppm
Concentration per Run 1	0.0027 ppm	0.1356 ppm	0.3178 ppm	0.3897 ppm	297.5181 ppm	13.8475 ppm	0.3420 ppm
Concentration per Run 2	0.0027 ppm	0.1351 ppm	0.3165 ppm	0.3879 ppm	298.4164 ppm	13.9446 ppm	0.3430 ppm
Concentration per Run 3	0.0028 ppm	0.1334 ppm	0.3170 ppm	0.3904 ppm	296.9470 ppm	13.8937 ppm	0.3376 ppm
Concentration RSD	2.4 %	0.9 %	0.2 %	0.3 %	0.2 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.0789 ppm	7.2742 ppm	0.0020 ppm	1.6165 ppm	0.3022 ppm	0.9653 ppm	0.0114 ppm
Concentration per Run 1	76.2733 ppm	7.2544 ppm	0.0017 ppm	1.6197 ppm	0.3029 ppm	0.9620 ppm	0.0154 ppm
Concentration per Run 2	76.0002 ppm	7.2894 ppm	0.0022 ppm	1.6138 ppm	0.3006 ppm	0.9661 ppm	0.0094 ppm
Concentration per Run 3	75.9634 ppm	7.2789 ppm	0.0023 ppm	1.6160 ppm	0.3031 ppm	0.9677 ppm	0.0094 ppm
Concentration RSD	0.2 %	0.2 %	16.2 %	0.2 %	0.5 %	0.3 %	30.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0035 ppm	5.4368 ppm	0.0300 ppm	0.2550 ppm	1.9163 ppm	0.0020 ppm	0.3691 ppm
Concentration per Run 1	0.0029 ppm	5.4794 ppm	0.0303 ppm	0.2544 ppm	1.9159 ppm	0.0018 ppm	0.3696 ppm
Concentration per Run 2	0.0041 ppm	5.4415 ppm	0.0296 ppm	0.2554 ppm	1.9181 ppm	0.0015 ppm	0.3695 ppm
Concentration per Run 3	0.0034 ppm	5.3893 ppm	0.0300 ppm	0.2553 ppm	1.9148 ppm	0.0028 ppm	0.3683 ppm
Concentration RSD	17.0 %	0.8 %	1.1 %	0.2 %	0.1 %	34.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2616 ppm	103.7960 %	112.9854 %	95.2868 %	120.8884 %	132.9173 %	121.2809 %
Concentration per Run 1	1.2636 ppm	103.7448 %	112.6515 %	95.6602 %	120.5324 %	132.6777 %	121.1327 %
Concentration per Run 2	1.2618 ppm	103.9445 %	112.8656 %	95.5006 %	121.4309 %	132.5423 %	121.8202 %
Concentration per Run 3	1.2594 ppm	103.6986 %	113.4391 %	94.6995 %	120.7018 %	133.5318 %	120.8898 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-61D2 WG1935256
Analysis started at: 6/18/2024 9:53:24 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	93.1885 ppm	0.1750 ppm	0.1488 ppm	0.7185 ppm	0.0047 ppm	147.3417 ppm
Concentration per Run 1	0.0004 ppm	93.1387 ppm	0.1748 ppm	0.1477 ppm	0.7171 ppm	0.0047 ppm	147.3564 ppm
Concentration per Run 2	0.0001 ppm	93.2133 ppm	0.1746 ppm	0.1484 ppm	0.7192 ppm	0.0047 ppm	147.5612 ppm
Concentration per Run 3	0.0006 ppm	93.2134 ppm	0.1756 ppm	0.1502 ppm	0.7192 ppm	0.0047 ppm	147.1076 ppm
Concentration RSD	62.2 %	0.0 %	0.3 %	0.9 %	0.2 %	1.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0891 ppm	0.2701 ppm	0.3304 ppm	200.0500 ppm	7.5066 ppm	0.1848 ppm
Concentration per Run 1	0.0029 ppm	0.0886 ppm	0.2712 ppm	0.3307 ppm	199.7551 ppm	7.4899 ppm	0.1841 ppm
Concentration per Run 2	0.0026 ppm	0.0893 ppm	0.2706 ppm	0.3312 ppm	200.7049 ppm	7.5025 ppm	0.1858 ppm
Concentration per Run 3	0.0027 ppm	0.0892 ppm	0.2684 ppm	0.3291 ppm	199.6901 ppm	7.5275 ppm	0.1846 ppm
Concentration RSD	6.8 %	0.4 %	0.5 %	0.3 %	0.3 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	48.9370 ppm	4.6411 ppm	0.0027 ppm	1.4647 ppm	0.2238 ppm	0.5633 ppm	0.0084 ppm
Concentration per Run 1	49.1431 ppm	4.6419 ppm	0.0024 ppm	1.4650 ppm	0.2244 ppm	0.5616 ppm	0.0079 ppm
Concentration per Run 2	48.9543 ppm	4.6481 ppm	0.0029 ppm	1.4640 ppm	0.2253 ppm	0.5674 ppm	0.0106 ppm
Concentration per Run 3	48.7136 ppm	4.6332 ppm	0.0027 ppm	1.4651 ppm	0.2216 ppm	0.5610 ppm	0.0067 ppm
Concentration RSD	0.4 %	0.2 %	8.1 %	0.0 %	0.9 %	0.6 %	23.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	6.3173 ppm	0.0282 ppm	0.3552 ppm	3.9118 ppm	0.0044 ppm	0.3613 ppm
Concentration per Run 1	0.0032 ppm	6.3737 ppm	0.0285 ppm	0.3569 ppm	3.9230 ppm	0.0050 ppm	0.3620 ppm
Concentration per Run 2	0.0005 ppm	6.3206 ppm	0.0279 ppm	0.3538 ppm	3.9137 ppm	0.0033 ppm	0.3621 ppm
Concentration per Run 3	0.0021 ppm	6.2577 ppm	0.0282 ppm	0.3550 ppm	3.8986 ppm	0.0047 ppm	0.3597 ppm
Concentration RSD	72.4 %	0.9 %	1.1 %	0.4 %	0.3 %	20.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2507 ppm	101.6653 %	111.0808 %	92.9898 %	111.2760 %	122.1822 %	111.4862 %
Concentration per Run 1	1.2520 ppm	101.4474 %	111.6631 %	93.2295 %	110.9878 %	122.8282 %	111.3218 %
Concentration per Run 2	1.2561 ppm	101.5577 %	110.5333 %	92.8867 %	111.4243 %	121.8961 %	111.6721 %
Concentration per Run 3	1.2438 ppm	101.9909 %	111.0459 %	92.8531 %	111.4158 %	121.8221 %	111.4645 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.2 %	0.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-70D2 WG1935256
Analysis started at: 6/18/2024 9:57:18 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	65.4441 ppm	0.0763 ppm	0.0686 ppm	0.3174 ppm	0.0030 ppm	26.4542 ppm
Concentration per Run 1	0.0010 ppm	65.5352 ppm	0.0785 ppm	0.0679 ppm	0.3183 ppm	0.0030 ppm	26.5117 ppm
Concentration per Run 2	0.0014 ppm	65.3479 ppm	0.0772 ppm	0.0690 ppm	0.3189 ppm	0.0030 ppm	26.3830 ppm
Concentration per Run 3	0.0007 ppm	65.4492 ppm	0.0734 ppm	0.0687 ppm	0.3151 ppm	0.0030 ppm	26.4678 ppm
Concentration RSD	31.0 %	0.1 %	3.4 %	0.8 %	0.6 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0647 ppm	0.1429 ppm	0.3992 ppm	178.4205 ppm	4.3265 ppm	0.1063 ppm
Concentration per Run 1	0.0018 ppm	0.0653 ppm	0.1429 ppm	0.3988 ppm	178.8579 ppm	4.3408 ppm	0.1081 ppm
Concentration per Run 2	0.0017 ppm	0.0639 ppm	0.1426 ppm	0.3992 ppm	178.2279 ppm	4.3217 ppm	0.1062 ppm
Concentration per Run 3	0.0018 ppm	0.0647 ppm	0.1433 ppm	0.3997 ppm	178.1758 ppm	4.3169 ppm	0.1048 ppm
Concentration RSD	2.9 %	1.1 %	0.3 %	0.1 %	0.2 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.6684 ppm	1.8413 ppm	0.0032 ppm	2.1827 ppm	0.1704 ppm	0.3839 ppm	0.0060 ppm
Concentration per Run 1	32.7748 ppm	1.8448 ppm	0.0038 ppm	2.1885 ppm	0.1693 ppm	0.3840 ppm	0.0033 ppm
Concentration per Run 2	32.6292 ppm	1.8379 ppm	0.0029 ppm	2.1768 ppm	0.1703 ppm	0.3859 ppm	0.0067 ppm
Concentration per Run 3	32.6011 ppm	1.8412 ppm	0.0028 ppm	2.1828 ppm	0.1718 ppm	0.3818 ppm	0.0081 ppm
Concentration RSD	0.3 %	0.2 %	16.6 %	0.3 %	0.7 %	0.5 %	41.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	3.7587 ppm	0.0174 ppm	0.1405 ppm	2.7210 ppm	0.0030 ppm	0.2761 ppm
Concentration per Run 1	0.0040 ppm	3.7836 ppm	0.0175 ppm	0.1411 ppm	2.7238 ppm	0.0027 ppm	0.2760 ppm
Concentration per Run 2	0.0050 ppm	3.7494 ppm	0.0178 ppm	0.1398 ppm	2.7202 ppm	0.0028 ppm	0.2767 ppm
Concentration per Run 3	0.0010 ppm	3.7430 ppm	0.0169 ppm	0.1405 ppm	2.7191 ppm	0.0034 ppm	0.2755 ppm
Concentration RSD	62.3 %	0.6 %	2.5 %	0.5 %	0.1 %	12.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5728 ppm	102.3930 %	111.8573 %	97.0393 %	112.0083 %	122.5792 %	113.3228 %
Concentration per Run 1	0.5722 ppm	102.0973 %	111.7406 %	97.1885 %	111.8219 %	122.8615 %	113.8391 %
Concentration per Run 2	0.5743 ppm	102.7286 %	112.7044 %	96.8170 %	112.0131 %	123.1322 %	113.1345 %
Concentration per Run 3	0.5719 ppm	102.3530 %	111.1269 %	97.1123 %	112.1899 %	121.7439 %	112.9948 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.2 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432096-71D2 WG1935256
Analysis started at: 6/18/2024 10:01:14 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	77.0863 ppm	0.0440 ppm	0.0379 ppm	0.4085 ppm	0.0053 ppm	4.6007 ppm
Concentration per Run 1	0.0005 ppm	76.9250 ppm	0.0443 ppm	0.0370 ppm	0.4075 ppm	0.0054 ppm	4.6026 ppm
Concentration per Run 2	0.0000 ppm	77.1198 ppm	0.0448 ppm	0.0380 ppm	0.4076 ppm	0.0054 ppm	4.6127 ppm
Concentration per Run 3	0.0008 ppm	77.2142 ppm	0.0429 ppm	0.0388 ppm	0.4103 ppm	0.0053 ppm	4.5868 ppm
Concentration RSD	89.2 %	0.2 %	2.3 %	2.4 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0874 ppm	0.1474 ppm	0.1203 ppm	196.4355 ppm	6.7895 ppm	0.2233 ppm
Concentration per Run 1	0.0007 ppm	0.0874 ppm	0.1475 ppm	0.1207 ppm	195.8928 ppm	6.8035 ppm	0.2244 ppm
Concentration per Run 2	0.0007 ppm	0.0878 ppm	0.1473 ppm	0.1196 ppm	197.2833 ppm	6.7807 ppm	0.2241 ppm
Concentration per Run 3	0.0010 ppm	0.0869 ppm	0.1473 ppm	0.1207 ppm	196.1303 ppm	6.7843 ppm	0.2214 ppm
Concentration RSD	20.9 %	0.5 %	0.1 %	0.5 %	0.4 %	0.2 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.8828 ppm	2.1644 ppm	0.0007 ppm	1.0412 ppm	0.2058 ppm	0.0989 ppm	0.0017 ppm
Concentration per Run 1	36.8686 ppm	2.1626 ppm	0.0008 ppm	1.0426 ppm	0.2049 ppm	0.0983 ppm	0.0038 ppm
Concentration per Run 2	36.9276 ppm	2.1657 ppm	0.0003 ppm	1.0473 ppm	0.2057 ppm	0.0993 ppm	-0.0037 ppm
Concentration per Run 3	36.8523 ppm	2.1650 ppm	0.0008 ppm	1.0337 ppm	0.2067 ppm	0.0991 ppm	0.0049 ppm
Concentration RSD	0.1 %	0.1 %	48.0 %	0.7 %	0.4 %	0.5 %	278.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	3.2714 ppm	0.0028 ppm	0.0639 ppm	1.7303 ppm	0.0007 ppm	0.1714 ppm
Concentration per Run 1	0.0015 ppm	3.2869 ppm	0.0026 ppm	0.0639 ppm	1.7335 ppm	0.0015 ppm	0.1722 ppm
Concentration per Run 2	-0.0017 ppm	3.2538 ppm	0.0025 ppm	0.0642 ppm	1.7322 ppm	0.0018 ppm	0.1718 ppm
Concentration per Run 3	-0.0003 ppm	3.2734 ppm	0.0032 ppm	0.0637 ppm	1.7252 ppm	-0.0011 ppm	0.1703 ppm
Concentration RSD	830.3 %	0.5 %	15.5 %	0.4 %	0.3 %	219.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5297 ppm	102.9437 %	109.2605 %	98.8547 %	120.4336 %	129.2170 %	122.3301 %
Concentration per Run 1	0.5268 ppm	103.4637 %	109.3052 %	98.6891 %	120.9357 %	129.0943 %	121.5880 %
Concentration per Run 2	0.5324 ppm	102.4569 %	109.3995 %	99.2750 %	119.7783 %	129.8946 %	123.3030 %
Concentration per Run 3	0.5299 ppm	102.9105 %	109.0768 %	98.6001 %	120.5869 %	128.6619 %	122.0993 %
Concentration RSD	0.5 %	0.5 %	0.2 %	0.4 %	0.5 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:05:21 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5155 ppm	0.5037 ppm	0.4902 ppm	0.5086 ppm	0.5147 ppm	0.5153 ppm	0.4995 ppm
Concentration per Run 1	0.5133 ppm	0.5064 ppm	0.4900 ppm	0.5059 ppm	0.5151 ppm	0.5153 ppm	0.5002 ppm
Concentration per Run 2	0.5161 ppm	0.5112 ppm	0.4895 ppm	0.5081 ppm	0.5138 ppm	0.5138 ppm	0.5017 ppm
Concentration per Run 3	0.5169 ppm	0.4935 ppm	0.4911 ppm	0.5117 ppm	0.5151 ppm	0.5168 ppm	0.4966 ppm
Recovery Percentage 1	103.091 %	100.737 %	98.042 %	101.711 %	102.935 %	103.060 %	99.893 %
Concentration RSD	0.4 %	1.8 %	0.2 %	0.6 %	0.1 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5197 ppm	0.5240 ppm	0.5135 ppm	0.5007 ppm	0.5266 ppm	5.2007 ppm	0.4820 ppm
Concentration per Run 1	0.5191 ppm	0.5223 ppm	0.5124 ppm	0.5009 ppm	0.5270 ppm	5.2269 ppm	0.4874 ppm
Concentration per Run 2	0.5196 ppm	0.5244 ppm	0.5152 ppm	0.4999 ppm	0.5274 ppm	5.1950 ppm	0.4828 ppm
Concentration per Run 3	0.5203 ppm	0.5253 ppm	0.5130 ppm	0.5013 ppm	0.5254 ppm	5.1803 ppm	0.4758 ppm
Recovery Percentage 1	103.941 %	104.799 %	102.709 %	100.138 %	105.318 %	104.014 %	96.394 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.1 %	0.2 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5093 ppm	0.4935 ppm	0.5136 ppm	10.4661 ppm	0.5294 ppm	0.5054 ppm	0.5053 ppm
Concentration per Run 1	0.5084 ppm	0.4936 ppm	0.5061 ppm	10.4516 ppm	0.5278 ppm	0.5053 ppm	0.5039 ppm
Concentration per Run 2	0.5104 ppm	0.4935 ppm	0.5134 ppm	10.4699 ppm	0.5334 ppm	0.5051 ppm	0.5077 ppm
Concentration per Run 3	0.5091 ppm	0.4934 ppm	0.5213 ppm	10.4767 ppm	0.5269 ppm	0.5057 ppm	0.5045 ppm
Recovery Percentage 1	101.864 %	98.703 %	102.716 %	104.661 %	105.874 %	101.070 %	101.068 %
Concentration RSD	0.2 %	0.0 %	1.5 %	0.1 %	0.7 %	0.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5004 ppm	5.3504 ppm	0.5420 ppm	0.5123 ppm	0.5197 ppm	0.4965 ppm	0.5119 ppm
Concentration per Run 1	0.4978 ppm	5.3366 ppm	0.5411 ppm	0.5111 ppm	0.5179 ppm	0.4974 ppm	0.5109 ppm
Concentration per Run 2	0.5010 ppm	5.3431 ppm	0.5425 ppm	0.5130 ppm	0.5212 ppm	0.4960 ppm	0.5123 ppm
Concentration per Run 3	0.5025 ppm	5.3715 ppm	0.5422 ppm	0.5128 ppm	0.5199 ppm	0.4961 ppm	0.5124 ppm
Recovery Percentage 1	100.087 %	101.912 %	108.394 %	102.454 %	103.933 %	99.303 %	102.373 %
Concentration RSD	0.5 %	0.3 %	0.1 %	0.2 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5302 ppm	99.6500 %	106.3964 %	100.3698 %	97.8652 %	104.2467 %	99.2755 %
Concentration per Run 1	0.5314 ppm	99.3373 %	106.2982 %	100.2470 %	97.7015 %	104.0401 %	99.1539 %
Concentration per Run 2	0.5322 ppm	99.8143 %	106.0475 %	100.4979 %	97.9645 %	104.0675 %	99.4579 %
Concentration per Run 3	0.5272 ppm	99.7982 %	106.8435 %	100.3644 %	97.9297 %	104.6324 %	99.2146 %
Recovery Percentage 1	106.050 %						
Concentration RSD	0.5 %	0.3 %	0.4 %	0.1 %	0.1 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:09:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0190 ppm	-0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0062 ppm
Concentration per Run 1	0.0012 ppm	-0.0151 ppm	-0.0007 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	-0.0201 ppm	-0.0013 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0071 ppm
Concentration per Run 3	0.0002 ppm	-0.0219 ppm	-0.0005 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0103 ppm
Recovery Percentage 1	7.559 %	-19.022 %	-28.250 %	0.592 %	-2.604 %	1.071 %	-6.244 %
Concentration RSD	102.6 %	18.4 %	47.4 %	808.2 %	47.0 %	24.3 %	72.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0044 ppm	0.0516 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0003 ppm	0.0032 ppm	0.0532 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0048 ppm	0.0656 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0052 ppm	0.0361 ppm	0.0013 ppm
Recovery Percentage 1	-0.602 %	-2.101 %	2.447 %	2.243 %	8.829 %	2.065 %	9.703 %
Concentration RSD	115.5 %	69.7 %	100.3 %	43.9 %	24.1 %	28.7 %	69.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0001 ppm	-0.0015 ppm	0.0035 ppm	-0.0003 ppm	0.0005 ppm	0.0018 ppm
Concentration per Run 1	-0.0009 ppm	0.0000 ppm	-0.0014 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	-0.0017 ppm	0.0032 ppm	-0.0004 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0014 ppm	0.0057 ppm	-0.0005 ppm	0.0004 ppm	0.0028 ppm
Recovery Percentage 1	-0.628 %	1.465 %	-3.041 %	0.176 %	-1.107 %	4.874 %	3.672 %
Concentration RSD	55.7 %	129.6 %	13.0 %	57.3 %	100.4 %	22.8 %	65.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0020 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0008 ppm	0.0048 ppm	0.0008 ppm	0.0004 ppm	-0.0001 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 2	0.0011 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0011 ppm	0.0013 ppm	0.0006 ppm	0.0003 ppm	-0.0005 ppm	0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	-2.516 %	0.394 %	0.136 %	3.431 %	-3.068 %	0.834 %	-1.846 %
Concentration RSD	475.4 %	130.3 %	1,609.7 %	9.7 %	56.6 %	419.4 %	26.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	94.0617 %	101.9804 %	96.4130 %	98.9434 %	104.3112 %	99.8527 %
Concentration per Run 1	0.0010 ppm	93.3456 %	101.5373 %	96.4967 %	99.0745 %	104.2825 %	100.1130 %
Concentration per Run 2	0.0005 ppm	94.0504 %	102.9567 %	96.1723 %	98.8482 %	105.0201 %	99.2339 %
Concentration per Run 3	0.0005 ppm	94.7892 %	101.4472 %	96.5701 %	98.9075 %	103.6309 %	100.2113 %
Recovery Percentage 1	13.465 %						
Concentration RSD	36.6 %	0.8 %	0.8 %	0.2 %	0.1 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1934555-2 WG1934555
Analysis started at: 6/18/2024 10:18:08 AM
Rack 1
Vial 60
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	2.0354 ppm	0.1200 ppm	0.9946 ppm	2.0381 ppm	0.0509 ppm	10.2349 ppm
Concentration per Run 1	0.0526 ppm	2.0340 ppm	0.1189 ppm	1.0016 ppm	2.0357 ppm	0.0509 ppm	10.2317 ppm
Concentration per Run 2	0.0522 ppm	2.0350 ppm	0.1207 ppm	0.9952 ppm	2.0380 ppm	0.0510 ppm	10.2405 ppm
Concentration per Run 3	0.0516 ppm	2.0373 ppm	0.1203 ppm	0.9870 ppm	2.0406 ppm	0.0508 ppm	10.2324 ppm
Concentration RSD	1.0 %	0.1 %	0.8 %	0.7 %	0.1 %	0.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0550 ppm	0.5099 ppm	0.2053 ppm	0.2561 ppm	0.9941 ppm	10.4112 ppm	-0.0001 ppm
Concentration per Run 1	0.0555 ppm	0.5130 ppm	0.2068 ppm	0.2587 ppm	0.9916 ppm	10.3790 ppm	0.0015 ppm
Concentration per Run 2	0.0549 ppm	0.5101 ppm	0.2051 ppm	0.2555 ppm	0.9988 ppm	10.4984 ppm	-0.0019 ppm
Concentration per Run 3	0.0545 ppm	0.5065 ppm	0.2039 ppm	0.2541 ppm	0.9920 ppm	10.3563 ppm	0.0001 ppm
Concentration RSD	0.9 %	0.6 %	0.7 %	0.9 %	0.4 %	0.7 %	1,593.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1669 ppm	0.4993 ppm	0.9912 ppm	10.7485 ppm	0.5164 ppm	0.5439 ppm	0.4229 ppm
Concentration per Run 1	10.2465 ppm	0.4986 ppm	0.9823 ppm	10.7434 ppm	0.5213 ppm	0.5439 ppm	0.4174 ppm
Concentration per Run 2	10.1564 ppm	0.5012 ppm	0.9954 ppm	10.7667 ppm	0.5167 ppm	0.5463 ppm	0.4266 ppm
Concentration per Run 3	10.0977 ppm	0.4983 ppm	0.9959 ppm	10.7355 ppm	0.5114 ppm	0.5416 ppm	0.4246 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	1.0 %	0.4 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1199 ppm	1.1050 ppm	1.0231 ppm	1.0001 ppm	1.0541 ppm	0.1234 ppm	0.5199 ppm
Concentration per Run 1	0.1201 ppm	1.1107 ppm	1.0296 ppm	1.0028 ppm	1.0593 ppm	0.1239 ppm	0.5227 ppm
Concentration per Run 2	0.1199 ppm	1.1013 ppm	1.0212 ppm	0.9984 ppm	1.0529 ppm	0.1232 ppm	0.5193 ppm
Concentration per Run 3	0.1198 ppm	1.1031 ppm	1.0184 ppm	0.9992 ppm	1.0500 ppm	0.1230 ppm	0.5176 ppm
Concentration RSD	0.2 %	0.5 %	0.6 %	0.2 %	0.5 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5212 ppm	102.7212 %	106.2694 %	100.6041 %	102.8697 %	104.4197 %	101.2941 %
Concentration per Run 1	0.5250 ppm	102.3315 %	105.3593 %	100.3309 %	102.9537 %	103.4639 %	100.7392 %
Concentration per Run 2	0.5217 ppm	102.4806 %	106.5531 %	100.2729 %	102.5823 %	104.9130 %	101.1883 %
Concentration per Run 3	0.5170 ppm	103.3515 %	106.8958 %	101.2084 %	103.0731 %	104.8822 %	101.9549 %
Concentration RSD	0.8 %	0.5 %	0.8 %	0.5 %	0.2 %	0.8 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-2D2 WG1935259
Analysis started at: 6/18/2024 10:22:23 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3337 ppm	17.8035 ppm	1.1904 ppm	0.9398 ppm	1.2743 ppm	0.6264 ppm	18.9414 ppm
Concentration per Run 1	0.3351 ppm	17.7465 ppm	1.1927 ppm	0.9446 ppm	1.2704 ppm	0.6262 ppm	18.9355 ppm
Concentration per Run 2	0.3330 ppm	17.8748 ppm	1.1867 ppm	0.9458 ppm	1.2789 ppm	0.6268 ppm	18.9670 ppm
Concentration per Run 3	0.3331 ppm	17.7894 ppm	1.1919 ppm	0.9291 ppm	1.2736 ppm	0.6261 ppm	18.9216 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	1.0 %	0.3 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8423 ppm	0.3243 ppm	0.7103 ppm	0.8063 ppm	21.5598 ppm	4.1326 ppm	0.4838 ppm
Concentration per Run 1	0.8516 ppm	0.3276 ppm	0.7180 ppm	0.8157 ppm	21.5313 ppm	4.1353 ppm	0.4853 ppm
Concentration per Run 2	0.8425 ppm	0.3252 ppm	0.7107 ppm	0.8054 ppm	21.5898 ppm	4.1719 ppm	0.4881 ppm
Concentration per Run 3	0.8327 ppm	0.3201 ppm	0.7022 ppm	0.7978 ppm	21.5583 ppm	4.0905 ppm	0.4781 ppm
Concentration RSD	1.1 %	1.2 %	1.1 %	1.1 %	0.1 %	1.0 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8597 ppm	1.9374 ppm	0.5122 ppm	7.0005 ppm	1.2617 ppm	0.3608 ppm	0.7055 ppm
Concentration per Run 1	5.9310 ppm	1.9367 ppm	0.5077 ppm	6.9913 ppm	1.2757 ppm	0.3620 ppm	0.7094 ppm
Concentration per Run 2	5.8444 ppm	1.9404 ppm	0.5131 ppm	6.9875 ppm	1.2640 ppm	0.3614 ppm	0.7119 ppm
Concentration per Run 3	5.8036 ppm	1.9352 ppm	0.5156 ppm	7.0226 ppm	1.2453 ppm	0.3588 ppm	0.6950 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.3 %	1.2 %	0.5 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6553 ppm	8.1584 ppm	0.3114 ppm	0.5363 ppm	1.1833 ppm	0.7770 ppm	0.4011 ppm
Concentration per Run 1	0.6581 ppm	8.2283 ppm	0.3152 ppm	0.5356 ppm	1.1912 ppm	0.7718 ppm	0.4041 ppm
Concentration per Run 2	0.6551 ppm	8.1469 ppm	0.3090 ppm	0.5364 ppm	1.1841 ppm	0.7800 ppm	0.4013 ppm
Concentration per Run 3	0.6527 ppm	8.1001 ppm	0.3099 ppm	0.5370 ppm	1.1745 ppm	0.7792 ppm	0.3981 ppm
Concentration RSD	0.4 %	0.8 %	1.1 %	0.1 %	0.7 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6705 ppm	97.9082 %	106.9208 %	97.7035 %	104.4627 %	111.6018 %	105.1789 %
Concentration per Run 1	0.6794 ppm	96.5188 %	107.3542 %	97.4260 %	103.8948 %	112.3531 %	104.9735 %
Concentration per Run 2	0.6698 ppm	97.8903 %	107.1471 %	97.5818 %	104.3649 %	111.5425 %	105.1977 %
Concentration per Run 3	0.6624 ppm	99.3156 %	106.2611 %	98.1028 %	105.1286 %	110.9097 %	105.3655 %
Concentration RSD	1.3 %	1.4 %	0.5 %	0.4 %	0.6 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935259-3D2 WG1935259
Analysis started at: 6/18/2024 10:26:18 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3350 ppm	17.8563 ppm	1.2123 ppm	0.9513 ppm	1.3688 ppm	0.6478 ppm	19.1628 ppm
Concentration per Run 1	0.3343 ppm	17.9008 ppm	1.2208 ppm	0.9482 ppm	1.3677 ppm	0.6481 ppm	19.2033 ppm
Concentration per Run 2	0.3357 ppm	17.8398 ppm	1.2092 ppm	0.9527 ppm	1.3714 ppm	0.6484 ppm	19.1610 ppm
Concentration per Run 3	0.3352 ppm	17.8284 ppm	1.2068 ppm	0.9529 ppm	1.3672 ppm	0.6470 ppm	19.1241 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8731 ppm	0.3294 ppm	0.7164 ppm	0.8342 ppm	22.5313 ppm	4.1468 ppm	0.4879 ppm
Concentration per Run 1	0.8748 ppm	0.3303 ppm	0.7174 ppm	0.8357 ppm	22.5226 ppm	4.1886 ppm	0.4922 ppm
Concentration per Run 2	0.8725 ppm	0.3295 ppm	0.7183 ppm	0.8339 ppm	22.5934 ppm	4.1567 ppm	0.4854 ppm
Concentration per Run 3	0.8720 ppm	0.3283 ppm	0.7136 ppm	0.8328 ppm	22.4779 ppm	4.0951 ppm	0.4859 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	0.3 %	1.1 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8516 ppm	2.0282 ppm	0.5214 ppm	7.1343 ppm	1.2868 ppm	0.3674 ppm	0.7202 ppm
Concentration per Run 1	5.8557 ppm	2.0317 ppm	0.5137 ppm	7.1565 ppm	1.2882 ppm	0.3702 ppm	0.7213 ppm
Concentration per Run 2	5.8675 ppm	2.0289 ppm	0.5214 ppm	7.1256 ppm	1.2902 ppm	0.3659 ppm	0.7211 ppm
Concentration per Run 3	5.8317 ppm	2.0238 ppm	0.5292 ppm	7.1209 ppm	1.2820 ppm	0.3661 ppm	0.7182 ppm
Concentration RSD	0.3 %	0.2 %	1.5 %	0.3 %	0.3 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6837 ppm	7.7478 ppm	0.3097 ppm	0.5589 ppm	1.1815 ppm	0.8178 ppm	0.4126 ppm
Concentration per Run 1	0.6891 ppm	7.7549 ppm	0.3085 ppm	0.5599 ppm	1.1821 ppm	0.8158 ppm	0.4130 ppm
Concentration per Run 2	0.6808 ppm	7.7571 ppm	0.3108 ppm	0.5586 ppm	1.1838 ppm	0.8167 ppm	0.4131 ppm
Concentration per Run 3	0.6812 ppm	7.7314 ppm	0.3100 ppm	0.5580 ppm	1.1788 ppm	0.8210 ppm	0.4117 ppm
Concentration RSD	0.7 %	0.2 %	0.4 %	0.2 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6811 ppm	98.2324 %	106.5036 %	97.9607 %	104.6585 %	111.2503 %	105.1362 %
Concentration per Run 1	0.6817 ppm	98.3680 %	106.5020 %	97.7615 %	106.0283 %	111.6665 %	105.4175 %
Concentration per Run 2	0.6828 ppm	97.8489 %	106.2493 %	97.9849 %	103.7568 %	110.8628 %	104.9890 %
Concentration per Run 3	0.6789 ppm	98.4802 %	106.7596 %	98.1357 %	104.1905 %	111.2215 %	105.0022 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %	1.2 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-01D2 WG1935259
Analysis started at: 6/18/2024 10:30:13 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	85.4348 ppm	0.0392 ppm	0.0058 ppm	0.2184 ppm	0.0051 ppm	13.6207 ppm
Concentration per Run 1	0.0005 ppm	85.4992 ppm	0.0408 ppm	0.0063 ppm	0.2193 ppm	0.0051 ppm	13.6136 ppm
Concentration per Run 2	-0.0004 ppm	85.6665 ppm	0.0375 ppm	0.0068 ppm	0.2184 ppm	0.0051 ppm	13.6421 ppm
Concentration per Run 3	-0.0001 ppm	85.1387 ppm	0.0394 ppm	0.0043 ppm	0.2176 ppm	0.0051 ppm	13.6064 ppm
Concentration RSD	20,049.7 %	0.3 %	4.2 %	23.1 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0710 ppm	0.1563 ppm	0.1629 ppm	163.0426 ppm	3.8955 ppm	0.1754 ppm
Concentration per Run 1	0.0012 ppm	0.0704 ppm	0.1574 ppm	0.1620 ppm	163.2563 ppm	3.9606 ppm	0.1788 ppm
Concentration per Run 2	0.0012 ppm	0.0716 ppm	0.1562 ppm	0.1633 ppm	163.1296 ppm	3.9062 ppm	0.1752 ppm
Concentration per Run 3	0.0011 ppm	0.0709 ppm	0.1554 ppm	0.1635 ppm	162.7419 ppm	3.8195 ppm	0.1722 ppm
Concentration RSD	4.7 %	0.8 %	0.6 %	0.5 %	0.2 %	1.8 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.7717 ppm	3.4580 ppm	0.0011 ppm	0.5431 ppm	0.1410 ppm	0.1616 ppm	0.0043 ppm
Concentration per Run 1	37.8088 ppm	3.4571 ppm	0.0010 ppm	0.5484 ppm	0.1418 ppm	0.1618 ppm	0.0053 ppm
Concentration per Run 2	37.7969 ppm	3.4648 ppm	0.0007 ppm	0.5354 ppm	0.1419 ppm	0.1609 ppm	0.0033 ppm
Concentration per Run 3	37.7095 ppm	3.4521 ppm	0.0016 ppm	0.5454 ppm	0.1394 ppm	0.1623 ppm	0.0043 ppm
Concentration RSD	0.1 %	0.2 %	39.0 %	1.2 %	1.0 %	0.4 %	23.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	4.8156 ppm	0.0096 ppm	0.0793 ppm	3.7732 ppm	0.0011 ppm	0.1796 ppm
Concentration per Run 1	0.0008 ppm	4.8147 ppm	0.0097 ppm	0.0797 ppm	3.7725 ppm	0.0021 ppm	0.1799 ppm
Concentration per Run 2	0.0004 ppm	4.8394 ppm	0.0101 ppm	0.0792 ppm	3.7817 ppm	0.0006 ppm	0.1794 ppm
Concentration per Run 3	-0.0026 ppm	4.7926 ppm	0.0089 ppm	0.0791 ppm	3.7653 ppm	0.0004 ppm	0.1795 ppm
Concentration RSD	408.5 %	0.5 %	6.5 %	0.4 %	0.2 %	87.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4942 ppm	101.1465 %	110.2905 %	94.7733 %	119.0395 %	130.6266 %	120.1383 %
Concentration per Run 1	0.4939 ppm	101.2795 %	109.8934 %	95.1235 %	118.8154 %	130.0198 %	120.6343 %
Concentration per Run 2	0.4967 ppm	101.1632 %	110.4089 %	94.6534 %	119.4423 %	130.7459 %	120.0284 %
Concentration per Run 3	0.4919 ppm	100.9967 %	110.5693 %	94.5429 %	118.8607 %	131.1142 %	119.7521 %
Concentration RSD	0.5 %	0.1 %	0.3 %	0.3 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-02D2 WG1935259
Analysis started at: 6/18/2024 10:35:58 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	70.2755 ppm	0.0427 ppm	0.0069 ppm	0.2178 ppm	0.0049 ppm	15.0790 ppm
Concentration per Run 1	0.0004 ppm	70.0480 ppm	0.0434 ppm	0.0064 ppm	0.2188 ppm	0.0049 ppm	15.0890 ppm
Concentration per Run 2	0.0005 ppm	70.2351 ppm	0.0435 ppm	0.0075 ppm	0.2170 ppm	0.0049 ppm	15.0614 ppm
Concentration per Run 3	0.0004 ppm	70.5435 ppm	0.0413 ppm	0.0067 ppm	0.2176 ppm	0.0048 ppm	15.0866 ppm
Concentration RSD	22.5 %	0.4 %	2.9 %	8.0 %	0.4 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0644 ppm	0.1120 ppm	0.1385 ppm	134.8403 ppm	3.4810 ppm	0.1482 ppm
Concentration per Run 1	0.0016 ppm	0.0646 ppm	0.1128 ppm	0.1389 ppm	135.4418 ppm	3.5138 ppm	0.1515 ppm
Concentration per Run 2	0.0016 ppm	0.0643 ppm	0.1118 ppm	0.1384 ppm	134.5484 ppm	3.4528 ppm	0.1457 ppm
Concentration per Run 3	0.0017 ppm	0.0643 ppm	0.1114 ppm	0.1383 ppm	134.5305 ppm	3.4765 ppm	0.1474 ppm
Concentration RSD	4.5 %	0.3 %	0.7 %	0.2 %	0.4 %	0.9 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.8844 ppm	3.1296 ppm	-0.0003 ppm	0.9979 ppm	0.1107 ppm	0.1408 ppm	0.0038 ppm
Concentration per Run 1	29.0880 ppm	3.1240 ppm	-0.0001 ppm	1.0030 ppm	0.1113 ppm	0.1416 ppm	0.0089 ppm
Concentration per Run 2	28.8408 ppm	3.1258 ppm	-0.0002 ppm	0.9994 ppm	0.1105 ppm	0.1405 ppm	0.0012 ppm
Concentration per Run 3	28.7246 ppm	3.1389 ppm	-0.0006 ppm	0.9914 ppm	0.1104 ppm	0.1401 ppm	0.0013 ppm
Concentration RSD	0.6 %	0.3 %	76.8 %	0.6 %	0.5 %	0.5 %	116.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.7328 ppm	0.0109 ppm	0.0962 ppm	2.9612 ppm	0.0007 ppm	0.1403 ppm
Concentration per Run 1	-0.0014 ppm	4.7691 ppm	0.0110 ppm	0.0968 ppm	2.9703 ppm	0.0022 ppm	0.1404 ppm
Concentration per Run 2	0.0015 ppm	4.7214 ppm	0.0111 ppm	0.0961 ppm	2.9664 ppm	-0.0016 ppm	0.1404 ppm
Concentration per Run 3	-0.0003 ppm	4.7079 ppm	0.0105 ppm	0.0956 ppm	2.9468 ppm	0.0014 ppm	0.1401 ppm
Concentration RSD	1,942.0 %	0.7 %	2.9 %	0.6 %	0.4 %	290.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4363 ppm	101.3359 %	110.8348 %	97.0367 %	119.0074 %	129.7330 %	120.4073 %
Concentration per Run 1	0.4376 ppm	100.4210 %	111.3313 %	97.1279 %	118.1595 %	130.3990 %	120.4619 %
Concentration per Run 2	0.4362 ppm	101.7968 %	110.8556 %	96.9505 %	119.6854 %	129.7229 %	120.2725 %
Concentration per Run 3	0.4352 ppm	101.7899 %	110.3174 %	97.0316 %	119.1773 %	129.0770 %	120.4875 %
Concentration RSD	0.3 %	0.8 %	0.5 %	0.1 %	0.7 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-03D2 WG1935259
Analysis started at: 6/18/2024 10:39:54 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	59.6169 ppm	0.0294 ppm	0.0050 ppm	0.1952 ppm	0.0046 ppm	14.8150 ppm
Concentration per Run 1	0.0005 ppm	59.7361 ppm	0.0305 ppm	0.0050 ppm	0.1956 ppm	0.0046 ppm	14.8082 ppm
Concentration per Run 2	0.0003 ppm	59.4811 ppm	0.0286 ppm	0.0046 ppm	0.1946 ppm	0.0046 ppm	14.8094 ppm
Concentration per Run 3	0.0001 ppm	59.6335 ppm	0.0291 ppm	0.0055 ppm	0.1954 ppm	0.0045 ppm	14.8274 ppm
Concentration RSD	59.5 %	0.2 %	3.3 %	9.2 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0568 ppm	0.1125 ppm	0.1269 ppm	124.1324 ppm	3.9820 ppm	0.1403 ppm
Concentration per Run 1	0.0015 ppm	0.0575 ppm	0.1125 ppm	0.1269 ppm	124.0195 ppm	4.0181 ppm	0.1422 ppm
Concentration per Run 2	0.0016 ppm	0.0566 ppm	0.1127 ppm	0.1270 ppm	124.0799 ppm	3.9518 ppm	0.1390 ppm
Concentration per Run 3	0.0014 ppm	0.0564 ppm	0.1123 ppm	0.1268 ppm	124.2980 ppm	3.9760 ppm	0.1395 ppm
Concentration RSD	8.7 %	1.0 %	0.2 %	0.1 %	0.1 %	0.8 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.1481 ppm	2.8520 ppm	0.0006 ppm	0.8027 ppm	0.1058 ppm	0.1522 ppm	0.0032 ppm
Concentration per Run 1	33.2425 ppm	2.8555 ppm	0.0009 ppm	0.8012 ppm	0.1060 ppm	0.1542 ppm	0.0019 ppm
Concentration per Run 2	33.1583 ppm	2.8499 ppm	0.0007 ppm	0.8061 ppm	0.1061 ppm	0.1524 ppm	0.0017 ppm
Concentration per Run 3	33.0436 ppm	2.8507 ppm	0.0004 ppm	0.8009 ppm	0.1055 ppm	0.1500 ppm	0.0059 ppm
Concentration RSD	0.3 %	0.1 %	39.7 %	0.4 %	0.3 %	1.4 %	73.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	5.7225 ppm	0.0135 ppm	0.1093 ppm	2.3148 ppm	0.0007 ppm	0.1148 ppm
Concentration per Run 1	-0.0006 ppm	5.7430 ppm	0.0139 ppm	0.1090 ppm	2.3139 ppm	0.0003 ppm	0.1149 ppm
Concentration per Run 2	-0.0030 ppm	5.7218 ppm	0.0139 ppm	0.1096 ppm	2.3141 ppm	0.0011 ppm	0.1148 ppm
Concentration per Run 3	-0.0017 ppm	5.7027 ppm	0.0126 ppm	0.1094 ppm	2.3164 ppm	0.0005 ppm	0.1147 ppm
Concentration RSD	65.9 %	0.4 %	5.5 %	0.2 %	0.1 %	63.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4654 ppm	101.2346 %	110.2661 %	96.8649 %	113.7100 %	123.9115 %	114.7066 %
Concentration per Run 1	0.4652 ppm	100.9038 %	110.3078 %	96.8252 %	113.7973 %	123.9034 %	114.8899 %
Concentration per Run 2	0.4663 ppm	101.1857 %	110.8555 %	96.6449 %	113.4097 %	124.5206 %	114.2819 %
Concentration per Run 3	0.4646 ppm	101.6142 %	109.6349 %	97.1244 %	113.9231 %	123.3104 %	114.9481 %
Concentration RSD	0.2 %	0.4 %	0.6 %	0.3 %	0.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-04D2 WG1935259
Analysis started at: 6/18/2024 10:43:55 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	44.3008 ppm	0.0227 ppm	0.0089 ppm	0.1791 ppm	0.0032 ppm	18.0809 ppm
Concentration per Run 1	0.0004 ppm	44.1687 ppm	0.0219 ppm	0.0100 ppm	0.1789 ppm	0.0032 ppm	18.0267 ppm
Concentration per Run 2	0.0005 ppm	44.3221 ppm	0.0230 ppm	0.0091 ppm	0.1788 ppm	0.0033 ppm	18.0930 ppm
Concentration per Run 3	0.0003 ppm	44.4116 ppm	0.0233 ppm	0.0077 ppm	0.1795 ppm	0.0033 ppm	18.1230 ppm
Concentration RSD	30.9 %	0.3 %	3.2 %	12.8 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0373 ppm	0.0987 ppm	0.0977 ppm	93.6926 ppm	3.5416 ppm	0.0875 ppm
Concentration per Run 1	0.0008 ppm	0.0377 ppm	0.0987 ppm	0.0985 ppm	93.4951 ppm	3.5843 ppm	0.0914 ppm
Concentration per Run 2	0.0006 ppm	0.0373 ppm	0.0980 ppm	0.0974 ppm	93.7315 ppm	3.5302 ppm	0.0852 ppm
Concentration per Run 3	0.0007 ppm	0.0369 ppm	0.0993 ppm	0.0971 ppm	93.8514 ppm	3.5103 ppm	0.0858 ppm
Concentration RSD	17.7 %	1.0 %	0.6 %	0.8 %	0.2 %	1.1 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.2160 ppm	2.4469 ppm	0.0071 ppm	4.0195 ppm	0.0716 ppm	0.1756 ppm	0.0000 ppm
Concentration per Run 1	31.3408 ppm	2.4465 ppm	0.0067 ppm	4.0120 ppm	0.0723 ppm	0.1751 ppm	-0.0008 ppm
Concentration per Run 2	31.1823 ppm	2.4453 ppm	0.0073 ppm	4.0273 ppm	0.0712 ppm	0.1756 ppm	-0.0007 ppm
Concentration per Run 3	31.1248 ppm	2.4490 ppm	0.0073 ppm	4.0192 ppm	0.0711 ppm	0.1761 ppm	0.0015 ppm
Concentration RSD	0.4 %	0.1 %	5.0 %	0.2 %	0.9 %	0.3 %	3,697.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	5.3301 ppm	0.0064 ppm	0.1502 ppm	1.4334 ppm	0.0002 ppm	0.0774 ppm
Concentration per Run 1	-0.0014 ppm	5.3482 ppm	0.0068 ppm	0.1495 ppm	1.4377 ppm	-0.0009 ppm	0.0773 ppm
Concentration per Run 2	-0.0015 ppm	5.3598 ppm	0.0049 ppm	0.1508 ppm	1.4326 ppm	-0.0003 ppm	0.0775 ppm
Concentration per Run 3	0.0004 ppm	5.2822 ppm	0.0075 ppm	0.1505 ppm	1.4300 ppm	0.0019 ppm	0.0775 ppm
Concentration RSD	130.2 %	0.8 %	21.3 %	0.4 %	0.3 %	653.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3164 ppm	99.5485 %	108.1925 %	97.1939 %	108.7323 %	117.4914 %	109.6501 %
Concentration per Run 1	0.3155 ppm	99.2319 %	107.6006 %	96.7201 %	108.6795 %	116.8511 %	109.1268 %
Concentration per Run 2	0.3173 ppm	99.6049 %	109.2684 %	97.1145 %	108.7179 %	118.7021 %	109.6966 %
Concentration per Run 3	0.3165 ppm	99.8088 %	107.7086 %	97.7473 %	108.7996 %	116.9209 %	110.1269 %
Concentration RSD	0.3 %	0.3 %	0.9 %	0.5 %	0.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-05D2 WG1935259
Analysis started at: 6/18/2024 10:47:53 AM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	76.8720 ppm	0.0671 ppm	0.0029 ppm	0.1898 ppm	0.0040 ppm	10.8664 ppm
Concentration per Run 1	0.0003 ppm	76.9473 ppm	0.0680 ppm	0.0016 ppm	0.1908 ppm	0.0040 ppm	10.8771 ppm
Concentration per Run 2	0.0007 ppm	76.9285 ppm	0.0683 ppm	0.0029 ppm	0.1885 ppm	0.0040 ppm	10.8910 ppm
Concentration per Run 3	0.0002 ppm	76.7401 ppm	0.0649 ppm	0.0041 ppm	0.1902 ppm	0.0040 ppm	10.8309 ppm
Concentration RSD	73.2 %	0.1 %	2.8 %	43.8 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0681 ppm	0.1101 ppm	0.1373 ppm	149.9496 ppm	3.2311 ppm	0.1279 ppm
Concentration per Run 1	0.0015 ppm	0.0688 ppm	0.1111 ppm	0.1380 ppm	150.7222 ppm	3.2913 ppm	0.1295 ppm
Concentration per Run 2	0.0015 ppm	0.0675 ppm	0.1097 ppm	0.1371 ppm	149.3683 ppm	3.2136 ppm	0.1302 ppm
Concentration per Run 3	0.0013 ppm	0.0681 ppm	0.1094 ppm	0.1369 ppm	149.7583 ppm	3.1885 ppm	0.1239 ppm
Concentration RSD	9.2 %	0.9 %	0.9 %	0.4 %	0.5 %	1.7 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	38.3209 ppm	3.2049 ppm	0.0006 ppm	0.3308 ppm	0.1246 ppm	0.1481 ppm	0.0032 ppm
Concentration per Run 1	38.4897 ppm	3.2074 ppm	-0.0002 ppm	0.3212 ppm	0.1251 ppm	0.1491 ppm	0.0018 ppm
Concentration per Run 2	38.3306 ppm	3.2122 ppm	0.0013 ppm	0.3305 ppm	0.1250 ppm	0.1475 ppm	0.0056 ppm
Concentration per Run 3	38.1422 ppm	3.1950 ppm	0.0006 ppm	0.3408 ppm	0.1236 ppm	0.1476 ppm	0.0023 ppm
Concentration RSD	0.5 %	0.3 %	130.3 %	3.0 %	0.6 %	0.6 %	63.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	5.1065 ppm	0.0041 ppm	0.1160 ppm	1.4100 ppm	-0.0011 ppm	0.1163 ppm
Concentration per Run 1	-0.0014 ppm	5.1100 ppm	0.0048 ppm	0.1165 ppm	1.4171 ppm	0.0006 ppm	0.1168 ppm
Concentration per Run 2	0.0000 ppm	5.1005 ppm	0.0032 ppm	0.1156 ppm	1.4102 ppm	-0.0020 ppm	0.1157 ppm
Concentration per Run 3	-0.0003 ppm	5.1089 ppm	0.0043 ppm	0.1159 ppm	1.4026 ppm	-0.0019 ppm	0.1165 ppm
Concentration RSD	129.9 %	0.1 %	19.4 %	0.4 %	0.5 %	134.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4859 ppm	100.4535 %	110.0821 %	97.1305 %	109.6794 %	120.5429 %	111.4307 %
Concentration per Run 1	0.4867 ppm	100.0744 %	109.6120 %	96.5868 %	109.5324 %	119.9701 %	111.1397 %
Concentration per Run 2	0.4864 ppm	100.5884 %	110.2035 %	97.1804 %	109.8777 %	120.7148 %	111.4001 %
Concentration per Run 3	0.4845 ppm	100.6977 %	110.4308 %	97.6244 %	109.6281 %	120.9436 %	111.7524 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.5 %	0.2 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-06D2 WG1935259
Analysis started at: 6/18/2024 10:51:49 AM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	67.1973 ppm	0.0372 ppm	0.0063 ppm	0.1939 ppm	0.0052 ppm	17.9316 ppm
Concentration per Run 1	0.0002 ppm	67.2224 ppm	0.0356 ppm	0.0062 ppm	0.1934 ppm	0.0051 ppm	17.9086 ppm
Concentration per Run 2	0.0012 ppm	67.0731 ppm	0.0392 ppm	0.0063 ppm	0.1946 ppm	0.0052 ppm	17.9474 ppm
Concentration per Run 3	0.0000 ppm	67.2965 ppm	0.0369 ppm	0.0063 ppm	0.1937 ppm	0.0051 ppm	17.9387 ppm
Concentration RSD	125.2 %	0.2 %	4.9 %	1.2 %	0.3 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0600 ppm	0.1018 ppm	0.1300 ppm	130.5409 ppm	3.2921 ppm	0.1489 ppm
Concentration per Run 1	0.0009 ppm	0.0598 ppm	0.1018 ppm	0.1299 ppm	130.4287 ppm	3.3227 ppm	0.1491 ppm
Concentration per Run 2	0.0011 ppm	0.0599 ppm	0.1015 ppm	0.1299 ppm	130.8924 ppm	3.3044 ppm	0.1495 ppm
Concentration per Run 3	0.0008 ppm	0.0603 ppm	0.1020 ppm	0.1300 ppm	130.3017 ppm	3.2493 ppm	0.1481 ppm
Concentration RSD	17.2 %	0.4 %	0.3 %	0.0 %	0.2 %	1.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2666 ppm	2.8172 ppm	-0.0016 ppm	0.3215 ppm	0.1059 ppm	0.1188 ppm	0.0012 ppm
Concentration per Run 1	28.3997 ppm	2.8176 ppm	-0.0018 ppm	0.3267 ppm	0.1064 ppm	0.1189 ppm	0.0009 ppm
Concentration per Run 2	28.2676 ppm	2.8200 ppm	-0.0015 ppm	0.3175 ppm	0.1050 ppm	0.1177 ppm	-0.0005 ppm
Concentration per Run 3	28.1325 ppm	2.8141 ppm	-0.0015 ppm	0.3202 ppm	0.1063 ppm	0.1198 ppm	0.0031 ppm
Concentration RSD	0.5 %	0.1 %	11.9 %	1.5 %	0.7 %	0.9 %	153.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	5.4647 ppm	0.0104 ppm	0.0841 ppm	2.3905 ppm	0.0008 ppm	0.1313 ppm
Concentration per Run 1	0.0000 ppm	5.4627 ppm	0.0107 ppm	0.0838 ppm	2.3932 ppm	0.0002 ppm	0.1317 ppm
Concentration per Run 2	-0.0001 ppm	5.4560 ppm	0.0096 ppm	0.0845 ppm	2.3891 ppm	0.0009 ppm	0.1309 ppm
Concentration per Run 3	-0.0001 ppm	5.4754 ppm	0.0108 ppm	0.0839 ppm	2.3891 ppm	0.0012 ppm	0.1313 ppm
Concentration RSD	74.9 %	0.2 %	6.4 %	0.4 %	0.1 %	64.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4127 ppm	101.7918 %	112.0512 %	97.6275 %	118.0737 %	130.4970 %	119.8126 %
Concentration per Run 1	0.4118 ppm	101.1334 %	111.7637 %	97.3618 %	117.4930 %	130.0873 %	119.7291 %
Concentration per Run 2	0.4125 ppm	101.9944 %	111.4856 %	98.1789 %	118.4806 %	130.2930 %	119.9418 %
Concentration per Run 3	0.4137 ppm	102.2477 %	112.9042 %	97.3419 %	118.2474 %	131.1106 %	119.7668 %
Concentration RSD	0.2 %	0.6 %	0.7 %	0.5 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: 0.5 ppm Li STD for MS
Analysis started at: 6/18/2024 10:55:46 AM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0180 ppm	0.0004 ppm	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	0.0547 ppm
Concentration per Run 1	0.0008 ppm	-0.0197 ppm	0.0023 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0512 ppm
Concentration per Run 2	0.0005 ppm	-0.0222 ppm	-0.0009 ppm	-0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0557 ppm
Concentration per Run 3	0.0000 ppm	-0.0121 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0571 ppm
Concentration RSD	89.5 %	29.4 %	405.4 %	97.1 %	18.5 %	139.6 %	5.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm	-0.0010 ppm	0.5283 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0046 ppm	0.0290 ppm	0.5342 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	-0.0005 ppm	-0.0002 ppm	0.0061 ppm	-0.0146 ppm	0.5244 ppm
Concentration per Run 3	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0057 ppm	-0.0174 ppm	0.5264 ppm
Concentration RSD	185.4 %	6.4 %	130.1 %	292.7 %	14.1 %	2,639.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0004 ppm	-0.0035 ppm	-0.0009 ppm	0.0004 ppm	0.0010 ppm	-0.0016 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	-0.0038 ppm	-0.0064 ppm	0.0002 ppm	0.0011 ppm	-0.0016 ppm
Concentration per Run 2	-0.0008 ppm	0.0004 ppm	-0.0033 ppm	-0.0049 ppm	0.0016 ppm	0.0009 ppm	-0.0016 ppm
Concentration per Run 3	-0.0007 ppm	0.0002 ppm	-0.0033 ppm	0.0087 ppm	-0.0004 ppm	0.0009 ppm	-0.0015 ppm
Concentration RSD	185.0 %	31.4 %	8.4 %	934.8 %	241.0 %	10.6 %	2.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.0026 ppm	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0006 ppm	0.0043 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 2	0.0021 ppm	0.0020 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0015 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	-0.0004 ppm
Concentration RSD	619.0 %	56.8 %	165.5 %	64.7 %	30.3 %	609.1 %	3.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	92.2375 %	102.4510 %	95.5619 %	100.3220 %	107.4087 %	101.8959 %
Concentration per Run 1	0.0004 ppm	90.4902 %	101.5269 %	95.3080 %	99.3098 %	106.8588 %	102.1813 %
Concentration per Run 2	0.0002 ppm	92.6636 %	102.1302 %	95.0288 %	100.7791 %	106.8784 %	101.2131 %
Concentration per Run 3	0.0004 ppm	93.5587 %	103.6960 %	96.3488 %	100.8772 %	108.4889 %	102.2931 %
Concentration RSD	34.9 %	1.7 %	1.1 %	0.7 %	0.9 %	0.9 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:59:45 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5200 ppm	0.4929 ppm	0.4943 ppm	0.5106 ppm	0.5116 ppm	0.5169 ppm	0.5018 ppm
Concentration per Run 1	0.5167 ppm	0.4975 ppm	0.4954 ppm	0.5087 ppm	0.5119 ppm	0.5170 ppm	0.4997 ppm
Concentration per Run 2	0.5206 ppm	0.4947 ppm	0.4902 ppm	0.5100 ppm	0.5147 ppm	0.5162 ppm	0.5017 ppm
Concentration per Run 3	0.5227 ppm	0.4864 ppm	0.4972 ppm	0.5129 ppm	0.5081 ppm	0.5174 ppm	0.5041 ppm
Recovery Percentage 1	104.001 %	98.581 %	98.850 %	102.111 %	102.313 %	103.380 %	100.363 %
Concentration RSD	0.6 %	1.2 %	0.7 %	0.4 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5208 ppm	0.5272 ppm	0.5177 ppm	0.5039 ppm	0.5185 ppm	5.2329 ppm	0.4811 ppm
Concentration per Run 1	0.5191 ppm	0.5262 ppm	0.5162 ppm	0.5035 ppm	0.5185 ppm	5.2562 ppm	0.4783 ppm
Concentration per Run 2	0.5210 ppm	0.5267 ppm	0.5175 ppm	0.5035 ppm	0.5198 ppm	5.2909 ppm	0.4884 ppm
Concentration per Run 3	0.5223 ppm	0.5288 ppm	0.5193 ppm	0.5049 ppm	0.5171 ppm	5.1516 ppm	0.4766 ppm
Recovery Percentage 1	104.165 %	105.448 %	103.536 %	100.788 %	103.691 %	104.658 %	96.222 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %	0.3 %	1.4 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5089 ppm	0.4952 ppm	0.5161 ppm	10.6032 ppm	0.5340 ppm	0.5071 ppm	0.5114 ppm
Concentration per Run 1	0.5091 ppm	0.4958 ppm	0.5060 ppm	10.5972 ppm	0.5327 ppm	0.5070 ppm	0.5073 ppm
Concentration per Run 2	0.5080 ppm	0.4954 ppm	0.5185 ppm	10.5878 ppm	0.5336 ppm	0.5067 ppm	0.5094 ppm
Concentration per Run 3	0.5095 ppm	0.4945 ppm	0.5238 ppm	10.6246 ppm	0.5358 ppm	0.5076 ppm	0.5176 ppm
Recovery Percentage 1	101.772 %	99.048 %	103.219 %	106.032 %	106.807 %	101.422 %	102.286 %
Concentration RSD	0.2 %	0.1 %	1.8 %	0.2 %	0.3 %	0.1 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5056 ppm	5.3721 ppm	0.5445 ppm	0.5198 ppm	0.5216 ppm	0.4976 ppm	0.5146 ppm
Concentration per Run 1	0.5053 ppm	5.3503 ppm	0.5451 ppm	0.5204 ppm	0.5208 ppm	0.4970 ppm	0.5123 ppm
Concentration per Run 2	0.5074 ppm	5.3722 ppm	0.5425 ppm	0.5197 ppm	0.5203 ppm	0.4984 ppm	0.5144 ppm
Concentration per Run 3	0.5042 ppm	5.3938 ppm	0.5459 ppm	0.5192 ppm	0.5237 ppm	0.4975 ppm	0.5171 ppm
Recovery Percentage 1	101.126 %	102.325 %	108.904 %	103.955 %	104.318 %	99.524 %	102.918 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.1 %	0.3 %	0.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5372 ppm	100.0709 %	106.2357 %	100.0250 %	98.1798 %	104.5489 %	99.2973 %
Concentration per Run 1	0.5362 ppm	100.2577 %	106.8144 %	100.0242 %	98.4073 %	105.1215 %	99.4601 %
Concentration per Run 2	0.5358 ppm	100.1000 %	106.0866 %	100.2090 %	98.1560 %	104.4528 %	99.6195 %
Concentration per Run 3	0.5396 ppm	99.8551 %	105.8060 %	99.8418 %	97.9761 %	104.0723 %	98.8122 %
Recovery Percentage 1	107.437 %						
Concentration RSD	0.4 %	0.2 %	0.5 %	0.2 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:03:42 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0148 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	0.0004 ppm	-0.0194 ppm	0.0002 ppm	-0.0006 ppm	-0.0003 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	0.0005 ppm	-0.0196 ppm	0.0010 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	-0.0033 ppm
Concentration per Run 3	0.0004 ppm	-0.0053 ppm	-0.0010 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	-0.0005 ppm
Recovery Percentage 1	6.471 %	-14.773 %	1.922 %	0.532 %	-3.673 %	0.801 %	-2.206 %
Concentration RSD	3.2 %	55.4 %	1,725.9 %	580.6 %	22.5 %	79.4 %	68.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0055 ppm	0.0129 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0069 ppm	0.0058 ppm	-0.0027 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0054 ppm	-0.0005 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0043 ppm	0.0334 ppm	-0.0009 ppm
Recovery Percentage 1	0.527 %	-0.722 %	-1.141 %	-1.067 %	11.040 %	0.516 %	-17.414 %
Concentration RSD	166.0 %	133.6 %	81.2 %	208.3 %	22.9 %	140.1 %	54.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0003 ppm	-0.0019 ppm	0.0105 ppm	0.0002 ppm	-0.0004 ppm	-0.0032 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	-0.0017 ppm	0.0048 ppm	0.0003 ppm	-0.0002 ppm	-0.0041 ppm
Concentration per Run 2	-0.0024 ppm	0.0004 ppm	-0.0021 ppm	0.0140 ppm	0.0010 ppm	-0.0004 ppm	-0.0029 ppm
Concentration per Run 3	-0.0019 ppm	0.0000 ppm	-0.0017 ppm	0.0125 ppm	-0.0006 ppm	-0.0005 ppm	-0.0025 ppm
Recovery Percentage 1	-1.351 %	2.602 %	-3.700 %	0.523 %	0.939 %	-3.567 %	-6.329 %
Concentration RSD	104.5 %	85.3 %	11.2 %	47.3 %	339.5 %	49.5 %	26.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0020 ppm	0.0006 ppm	0.0001 ppm	-0.0006 ppm	-0.0008 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0020 ppm	0.0021 ppm	0.0001 ppm	-0.0007 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0040 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0012 ppm	-0.0004 ppm
Concentration per Run 3	-0.0012 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm	-0.0009 ppm	-0.0004 ppm
Recovery Percentage 1	-3.730 %	0.394 %	1.252 %	1.357 %	-5.712 %	-4.166 %	-3.251 %
Concentration RSD	192.5 %	102.7 %	197.4 %	107.3 %	23.3 %	48.0 %	25.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	96.1635 %	103.7713 %	98.2190 %	97.8704 %	104.5452 %	99.7966 %
Concentration per Run 1	0.0005 ppm	95.7604 %	104.1826 %	97.6985 %	97.9563 %	105.1848 %	99.5425 %
Concentration per Run 2	0.0005 ppm	95.8531 %	102.3793 %	98.7656 %	97.3994 %	103.0187 %	100.2948 %
Concentration per Run 3	0.0009 ppm	96.8769 %	104.7519 %	98.1929 %	98.2555 %	105.4320 %	99.5526 %
Recovery Percentage 1	12.734 %						
Concentration RSD	30.4 %	0.6 %	1.2 %	0.5 %	0.4 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-07D2 WG1935259
Analysis started at: 6/18/2024 11:11:58 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	64.8436 ppm	0.0291 ppm	0.0038 ppm	0.1605 ppm	0.0046 ppm	13.3511 ppm
Concentration per Run 1	0.0003 ppm	64.7313 ppm	0.0294 ppm	0.0032 ppm	0.1606 ppm	0.0046 ppm	13.3305 ppm
Concentration per Run 2	0.0001 ppm	64.8812 ppm	0.0294 ppm	0.0044 ppm	0.1597 ppm	0.0047 ppm	13.3545 ppm
Concentration per Run 3	-0.0001 ppm	64.9181 ppm	0.0285 ppm	0.0039 ppm	0.1612 ppm	0.0046 ppm	13.3685 ppm
Concentration RSD	143.6 %	0.2 %	1.7 %	16.2 %	0.5 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0543 ppm	0.1089 ppm	0.1106 ppm	124.8724 ppm	3.4481 ppm	0.1753 ppm
Concentration per Run 1	0.0007 ppm	0.0545 ppm	0.1087 ppm	0.1100 ppm	124.9329 ppm	3.4454 ppm	0.1784 ppm
Concentration per Run 2	0.0008 ppm	0.0537 ppm	0.1087 ppm	0.1107 ppm	124.4866 ppm	3.4638 ppm	0.1740 ppm
Concentration per Run 3	0.0010 ppm	0.0547 ppm	0.1094 ppm	0.1111 ppm	125.1975 ppm	3.4352 ppm	0.1735 ppm
Concentration RSD	13.6 %	1.0 %	0.4 %	0.5 %	0.3 %	0.4 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.1593 ppm	2.7728 ppm	-0.0012 ppm	0.2787 ppm	0.1018 ppm	0.1087 ppm	0.0026 ppm
Concentration per Run 1	28.0753 ppm	2.7708 ppm	-0.0012 ppm	0.2788 ppm	0.1014 ppm	0.1081 ppm	0.0032 ppm
Concentration per Run 2	28.0982 ppm	2.7706 ppm	-0.0013 ppm	0.2807 ppm	0.1018 ppm	0.1090 ppm	0.0009 ppm
Concentration per Run 3	28.3044 ppm	2.7769 ppm	-0.0010 ppm	0.2765 ppm	0.1022 ppm	0.1090 ppm	0.0037 ppm
Concentration RSD	0.4 %	0.1 %	12.0 %	0.8 %	0.4 %	0.5 %	57.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.1653 ppm	0.0058 ppm	0.0670 ppm	2.0624 ppm	0.0008 ppm	0.1125 ppm
Concentration per Run 1	-0.0022 ppm	4.1601 ppm	0.0048 ppm	0.0670 ppm	2.0565 ppm	0.0015 ppm	0.1120 ppm
Concentration per Run 2	-0.0007 ppm	4.1705 ppm	0.0061 ppm	0.0670 ppm	2.0601 ppm	0.0012 ppm	0.1131 ppm
Concentration per Run 3	0.0016 ppm	4.1655 ppm	0.0063 ppm	0.0671 ppm	2.0706 ppm	-0.0003 ppm	0.1124 ppm
Concentration RSD	464.8 %	0.1 %	14.2 %	0.1 %	0.4 %	127.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3890 ppm	108.6805 %	112.7018 %	101.9795 %	118.6905 %	125.5121 %	118.9502 %
Concentration per Run 1	0.3887 ppm	109.3170 %	112.7756 %	102.2237 %	118.9181 %	125.7267 %	118.8892 %
Concentration per Run 2	0.3891 ppm	108.6556 %	112.3118 %	102.2761 %	118.8256 %	124.9924 %	119.1030 %
Concentration per Run 3	0.3893 ppm	108.0688 %	113.0182 %	101.4386 %	118.3277 %	125.8173 %	118.8583 %
Concentration RSD	0.1 %	0.6 %	0.3 %	0.5 %	0.3 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-08D2 WG1935259
Analysis started at: 6/18/2024 11:16:11 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	59.8120 ppm	0.0300 ppm	0.0077 ppm	0.1713 ppm	0.0043 ppm	12.2479 ppm
Concentration per Run 1	0.0007 ppm	59.8685 ppm	0.0290 ppm	0.0090 ppm	0.1708 ppm	0.0043 ppm	12.2594 ppm
Concentration per Run 2	0.0001 ppm	59.7279 ppm	0.0302 ppm	0.0076 ppm	0.1721 ppm	0.0043 ppm	12.2582 ppm
Concentration per Run 3	0.0003 ppm	59.8398 ppm	0.0307 ppm	0.0065 ppm	0.1711 ppm	0.0043 ppm	12.2262 ppm
Concentration RSD	74.1 %	0.1 %	3.0 %	16.3 %	0.4 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0598 ppm	0.0941 ppm	0.1342 ppm	114.3967 ppm	3.3184 ppm	0.1297 ppm
Concentration per Run 1	0.0009 ppm	0.0597 ppm	0.0944 ppm	0.1343 ppm	113.9287 ppm	3.3515 ppm	0.1290 ppm
Concentration per Run 2	0.0009 ppm	0.0599 ppm	0.0943 ppm	0.1338 ppm	114.8306 ppm	3.3186 ppm	0.1305 ppm
Concentration per Run 3	0.0009 ppm	0.0600 ppm	0.0934 ppm	0.1344 ppm	114.4306 ppm	3.2850 ppm	0.1296 ppm
Concentration RSD	3.2 %	0.3 %	0.6 %	0.2 %	0.4 %	1.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.4782 ppm	3.0485 ppm	0.0006 ppm	2.0884 ppm	0.0972 ppm	0.1378 ppm	0.0011 ppm
Concentration per Run 1	27.5339 ppm	3.0480 ppm	0.0008 ppm	2.0950 ppm	0.0980 ppm	0.1372 ppm	0.0029 ppm
Concentration per Run 2	27.4785 ppm	3.0519 ppm	0.0005 ppm	2.0848 ppm	0.0973 ppm	0.1387 ppm	0.0015 ppm
Concentration per Run 3	27.4221 ppm	3.0455 ppm	0.0005 ppm	2.0855 ppm	0.0963 ppm	0.1376 ppm	-0.0010 ppm
Concentration RSD	0.2 %	0.1 %	31.2 %	0.3 %	0.9 %	0.5 %	171.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	4.7693 ppm	0.0096 ppm	0.0832 ppm	2.2667 ppm	0.0013 ppm	0.1128 ppm
Concentration per Run 1	-0.0009 ppm	4.7871 ppm	0.0091 ppm	0.0832 ppm	2.2631 ppm	0.0022 ppm	0.1125 ppm
Concentration per Run 2	0.0028 ppm	4.7554 ppm	0.0095 ppm	0.0834 ppm	2.2701 ppm	0.0005 ppm	0.1130 ppm
Concentration per Run 3	0.0020 ppm	4.7654 ppm	0.0103 ppm	0.0831 ppm	2.2670 ppm	0.0013 ppm	0.1130 ppm
Concentration RSD	150.4 %	0.3 %	6.7 %	0.2 %	0.2 %	67.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3774 ppm	100.5497 %	108.8050 %	96.6019 %	113.7776 %	123.9758 %	115.0957 %
Concentration per Run 1	0.3778 ppm	100.6522 %	108.1909 %	96.3113 %	114.0735 %	123.2841 %	114.7020 %
Concentration per Run 2	0.3776 ppm	100.1547 %	108.4262 %	96.9428 %	112.9616 %	123.4627 %	115.5055 %
Concentration per Run 3	0.3768 ppm	100.8421 %	109.7981 %	96.5515 %	114.2978 %	125.1805 %	115.0797 %
Concentration RSD	0.2 %	0.4 %	0.8 %	0.3 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-09D2 WG1935259
Analysis started at: 6/18/2024 11:22:54 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	53.2426 ppm	0.0234 ppm	0.0085 ppm	0.1695 ppm	0.0036 ppm	20.4712 ppm
Concentration per Run 1	0.0009 ppm	53.2715 ppm	0.0229 ppm	0.0082 ppm	0.1700 ppm	0.0036 ppm	20.4902 ppm
Concentration per Run 2	0.0004 ppm	53.1900 ppm	0.0227 ppm	0.0096 ppm	0.1689 ppm	0.0036 ppm	20.4324 ppm
Concentration per Run 3	0.0002 ppm	53.2661 ppm	0.0246 ppm	0.0077 ppm	0.1694 ppm	0.0036 ppm	20.4910 ppm
Concentration RSD	65.1 %	0.1 %	4.6 %	11.8 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0492 ppm	0.1246 ppm	0.1379 ppm	108.3552 ppm	3.5739 ppm	0.1153 ppm
Concentration per Run 1	0.0010 ppm	0.0486 ppm	0.1249 ppm	0.1377 ppm	108.4215 ppm	3.5897 ppm	0.1191 ppm
Concentration per Run 2	0.0010 ppm	0.0497 ppm	0.1250 ppm	0.1376 ppm	108.3647 ppm	3.5638 ppm	0.1108 ppm
Concentration per Run 3	0.0010 ppm	0.0491 ppm	0.1241 ppm	0.1383 ppm	108.2795 ppm	3.5683 ppm	0.1160 ppm
Concentration RSD	2.0 %	1.1 %	0.4 %	0.3 %	0.1 %	0.4 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.7686 ppm	2.6923 ppm	0.0012 ppm	1.9876 ppm	0.1047 ppm	0.1622 ppm	0.0015 ppm
Concentration per Run 1	33.9201 ppm	2.6897 ppm	0.0015 ppm	1.9904 ppm	0.1049 ppm	0.1627 ppm	0.0059 ppm
Concentration per Run 2	33.7523 ppm	2.6870 ppm	0.0009 ppm	1.9782 ppm	0.1056 ppm	0.1609 ppm	0.0008 ppm
Concentration per Run 3	33.6334 ppm	2.7001 ppm	0.0012 ppm	1.9941 ppm	0.1036 ppm	0.1629 ppm	-0.0022 ppm
Concentration RSD	0.4 %	0.3 %	25.7 %	0.4 %	1.0 %	0.7 %	273.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	5.9164 ppm	0.0112 ppm	0.1375 ppm	1.8858 ppm	-0.0003 ppm	0.1033 ppm
Concentration per Run 1	0.0002 ppm	5.8944 ppm	0.0100 ppm	0.1377 ppm	1.8930 ppm	0.0001 ppm	0.1032 ppm
Concentration per Run 2	-0.0003 ppm	5.9351 ppm	0.0113 ppm	0.1374 ppm	1.8873 ppm	-0.0010 ppm	0.1036 ppm
Concentration per Run 3	0.0002 ppm	5.9199 ppm	0.0123 ppm	0.1374 ppm	1.8771 ppm	0.0001 ppm	0.1030 ppm
Concentration RSD	758.5 %	0.3 %	10.3 %	0.1 %	0.4 %	221.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4408 ppm	100.1889 %	109.3046 %	97.1149 %	111.7241 %	122.0390 %	112.8664 %
Concentration per Run 1	0.4430 ppm	99.5303 %	109.1933 %	97.2486 %	111.4502 %	121.9747 %	113.2603 %
Concentration per Run 2	0.4428 ppm	100.2705 %	109.6801 %	97.5268 %	111.7400 %	122.5309 %	113.0710 %
Concentration per Run 3	0.4364 ppm	100.7660 %	109.0404 %	96.5692 %	111.9822 %	121.6112 %	112.2680 %
Concentration RSD	0.8 %	0.6 %	0.3 %	0.5 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-10D2 WG1935259
Analysis started at: 6/18/2024 11:26:55 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	47.3117 ppm	0.0252 ppm	0.0283 ppm	0.1534 ppm	0.0032 ppm	23.6627 ppm
Concentration per Run 1	0.0000 ppm	47.2943 ppm	0.0242 ppm	0.0291 ppm	0.1540 ppm	0.0032 ppm	23.6679 ppm
Concentration per Run 2	-0.0005 ppm	47.3003 ppm	0.0254 ppm	0.0279 ppm	0.1532 ppm	0.0033 ppm	23.6144 ppm
Concentration per Run 3	-0.0001 ppm	47.3404 ppm	0.0260 ppm	0.0279 ppm	0.1528 ppm	0.0032 ppm	23.7059 ppm
Concentration RSD	139.1 %	0.1 %	3.7 %	2.5 %	0.4 %	2.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1047 ppm	0.0982 ppm	0.0880 ppm	109.4610 ppm	3.3781 ppm	0.0969 ppm
Concentration per Run 1	0.0006 ppm	0.1051 ppm	0.0987 ppm	0.0881 ppm	109.8560 ppm	3.3963 ppm	0.0997 ppm
Concentration per Run 2	0.0008 ppm	0.1048 ppm	0.0984 ppm	0.0882 ppm	109.4645 ppm	3.3756 ppm	0.0956 ppm
Concentration per Run 3	0.0007 ppm	0.1041 ppm	0.0973 ppm	0.0875 ppm	109.0627 ppm	3.3622 ppm	0.0954 ppm
Concentration RSD	11.6 %	0.5 %	0.7 %	0.4 %	0.4 %	0.5 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.1025 ppm	2.2987 ppm	0.0007 ppm	4.5592 ppm	0.0783 ppm	0.2250 ppm	0.0011 ppm
Concentration per Run 1	28.2782 ppm	2.3004 ppm	0.0008 ppm	4.5562 ppm	0.0785 ppm	0.2247 ppm	-0.0011 ppm
Concentration per Run 2	28.0412 ppm	2.2963 ppm	0.0010 ppm	4.5517 ppm	0.0777 ppm	0.2248 ppm	0.0023 ppm
Concentration per Run 3	27.9882 ppm	2.2993 ppm	0.0002 ppm	4.5699 ppm	0.0786 ppm	0.2256 ppm	0.0019 ppm
Concentration RSD	0.5 %	0.1 %	62.0 %	0.2 %	0.6 %	0.2 %	174.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	5.3836 ppm	0.0088 ppm	0.1322 ppm	1.8792 ppm	0.0007 ppm	0.0907 ppm
Concentration per Run 1	0.0005 ppm	5.3865 ppm	0.0076 ppm	0.1326 ppm	1.8881 ppm	0.0005 ppm	0.0911 ppm
Concentration per Run 2	0.0018 ppm	5.4245 ppm	0.0095 ppm	0.1320 ppm	1.8765 ppm	0.0002 ppm	0.0904 ppm
Concentration per Run 3	0.0035 ppm	5.3399 ppm	0.0092 ppm	0.1320 ppm	1.8729 ppm	0.0013 ppm	0.0907 ppm
Concentration RSD	79.0 %	0.8 %	11.5 %	0.3 %	0.4 %	82.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3131 ppm	99.7370 %	109.2647 %	96.7452 %	108.8919 %	118.9084 %	110.5388 %
Concentration per Run 1	0.3142 ppm	98.6447 %	109.6857 %	97.0629 %	107.9442 %	119.0915 %	111.1466 %
Concentration per Run 2	0.3134 ppm	100.3762 %	109.1063 %	96.5313 %	109.6035 %	118.6015 %	110.0956 %
Concentration per Run 3	0.3115 ppm	100.1901 %	109.0020 %	96.6415 %	109.1279 %	119.0321 %	110.3742 %
Concentration RSD	0.4 %	1.0 %	0.3 %	0.3 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-11D2 WG1935259
Analysis started at: 6/18/2024 11:30:51 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	45.8323 ppm	0.0292 ppm	0.0444 ppm	0.1852 ppm	0.0031 ppm	17.9188 ppm
Concentration per Run 1	0.0003 ppm	45.8653 ppm	0.0288 ppm	0.0461 ppm	0.1868 ppm	0.0031 ppm	17.9067 ppm
Concentration per Run 2	-0.0001 ppm	45.7887 ppm	0.0293 ppm	0.0427 ppm	0.1848 ppm	0.0030 ppm	17.9423 ppm
Concentration per Run 3	-0.0003 ppm	45.8427 ppm	0.0296 ppm	0.0445 ppm	0.1841 ppm	0.0031 ppm	17.9076 ppm
Concentration RSD	558.0 %	0.1 %	1.4 %	3.9 %	0.8 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0421 ppm	0.1135 ppm	0.1093 ppm	96.1670 ppm	3.3725 ppm	0.0928 ppm
Concentration per Run 1	0.0010 ppm	0.0427 ppm	0.1141 ppm	0.1098 ppm	96.3506 ppm	3.3764 ppm	0.0959 ppm
Concentration per Run 2	0.0012 ppm	0.0423 ppm	0.1130 ppm	0.1098 ppm	96.2771 ppm	3.3636 ppm	0.0906 ppm
Concentration per Run 3	0.0011 ppm	0.0411 ppm	0.1134 ppm	0.1082 ppm	95.8733 ppm	3.3775 ppm	0.0920 ppm
Concentration RSD	9.7 %	2.0 %	0.5 %	0.8 %	0.3 %	0.2 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.4585 ppm	2.5913 ppm	0.0016 ppm	2.6721 ppm	0.0797 ppm	0.1942 ppm	0.0030 ppm
Concentration per Run 1	28.6910 ppm	2.5900 ppm	0.0020 ppm	2.6609 ppm	0.0799 ppm	0.1942 ppm	0.0030 ppm
Concentration per Run 2	28.3864 ppm	2.5968 ppm	0.0016 ppm	2.6842 ppm	0.0800 ppm	0.1946 ppm	0.0032 ppm
Concentration per Run 3	28.2981 ppm	2.5872 ppm	0.0013 ppm	2.6710 ppm	0.0793 ppm	0.1938 ppm	0.0028 ppm
Concentration RSD	0.7 %	0.2 %	23.5 %	0.4 %	0.5 %	0.2 %	7.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	4.5871 ppm	0.0096 ppm	0.1233 ppm	1.8334 ppm	0.0001 ppm	0.0928 ppm
Concentration per Run 1	0.0023 ppm	4.6050 ppm	0.0089 ppm	0.1233 ppm	1.8430 ppm	-0.0015 ppm	0.0934 ppm
Concentration per Run 2	-0.0019 ppm	4.5825 ppm	0.0100 ppm	0.1237 ppm	1.8312 ppm	0.0018 ppm	0.0929 ppm
Concentration per Run 3	0.0013 ppm	4.5738 ppm	0.0099 ppm	0.1228 ppm	1.8259 ppm	0.0001 ppm	0.0921 ppm
Concentration RSD	371.0 %	0.4 %	6.6 %	0.4 %	0.5 %	1,516.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3760 ppm	99.6976 %	108.6214 %	96.3983 %	109.6973 %	118.5028 %	110.5432 %
Concentration per Run 1	0.3801 ppm	98.8111 %	109.1015 %	96.4638 %	109.0672 %	119.1343 %	110.8161 %
Concentration per Run 2	0.3741 ppm	99.9894 %	107.7552 %	96.2991 %	110.3081 %	117.4916 %	110.4501 %
Concentration per Run 3	0.3738 ppm	100.2923 %	109.0076 %	96.4318 %	109.7166 %	118.8824 %	110.3632 %
Concentration RSD	0.9 %	0.8 %	0.7 %	0.1 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-12D2 WG1935259
Analysis started at: 6/18/2024 11:34:48 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	75.4581 ppm	0.0400 ppm	0.0108 ppm	0.2587 ppm	0.0056 ppm	22.7166 ppm
Concentration per Run 1	-0.0002 ppm	75.3787 ppm	0.0394 ppm	0.0116 ppm	0.2581 ppm	0.0056 ppm	22.7026 ppm
Concentration per Run 2	0.0003 ppm	75.3490 ppm	0.0392 ppm	0.0100 ppm	0.2582 ppm	0.0056 ppm	22.7586 ppm
Concentration per Run 3	-0.0001 ppm	75.6466 ppm	0.0413 ppm	0.0108 ppm	0.2597 ppm	0.0056 ppm	22.6884 ppm
Concentration RSD	3,058.9 %	0.2 %	2.8 %	7.5 %	0.4 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0668 ppm	0.1295 ppm	0.2383 ppm	137.2697 ppm	3.9762 ppm	0.1767 ppm
Concentration per Run 1	0.0063 ppm	0.0666 ppm	0.1297 ppm	0.2388 ppm	137.0100 ppm	3.9845 ppm	0.1774 ppm
Concentration per Run 2	0.0063 ppm	0.0671 ppm	0.1295 ppm	0.2375 ppm	137.4325 ppm	3.9553 ppm	0.1762 ppm
Concentration per Run 3	0.0064 ppm	0.0668 ppm	0.1294 ppm	0.2385 ppm	137.3665 ppm	3.9889 ppm	0.1766 ppm
Concentration RSD	0.9 %	0.4 %	0.1 %	0.3 %	0.2 %	0.5 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.3933 ppm	3.9810 ppm	0.0018 ppm	1.1234 ppm	0.1366 ppm	0.2271 ppm	0.0017 ppm
Concentration per Run 1	39.5705 ppm	3.9804 ppm	0.0016 ppm	1.1277 ppm	0.1372 ppm	0.2263 ppm	0.0004 ppm
Concentration per Run 2	39.3869 ppm	3.9821 ppm	0.0023 ppm	1.1275 ppm	0.1369 ppm	0.2274 ppm	0.0032 ppm
Concentration per Run 3	39.2223 ppm	3.9806 ppm	0.0015 ppm	1.1151 ppm	0.1357 ppm	0.2277 ppm	0.0015 ppm
Concentration RSD	0.4 %	0.0 %	23.6 %	0.6 %	0.6 %	0.3 %	84.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.9485 ppm	0.0120 ppm	0.1355 ppm	2.0500 ppm	0.0001 ppm	0.1483 ppm
Concentration per Run 1	-0.0001 ppm	4.9848 ppm	0.0119 ppm	0.1357 ppm	2.0571 ppm	-0.0014 ppm	0.1486 ppm
Concentration per Run 2	0.0009 ppm	4.9538 ppm	0.0118 ppm	0.1356 ppm	2.0481 ppm	0.0013 ppm	0.1481 ppm
Concentration per Run 3	-0.0001 ppm	4.9067 ppm	0.0123 ppm	0.1352 ppm	2.0447 ppm	0.0004 ppm	0.1483 ppm
Concentration RSD	266.3 %	0.8 %	2.0 %	0.2 %	0.3 %	1,101.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2242 ppm	100.9362 %	112.9794 %	96.5675 %	116.3012 %	129.5576 %	117.7521 %
Concentration per Run 1	1.2263 ppm	100.5414 %	113.6563 %	96.5746 %	116.1121 %	130.7294 %	117.6255 %
Concentration per Run 2	1.2239 ppm	100.9157 %	112.6213 %	96.4992 %	116.1540 %	128.7304 %	117.8210 %
Concentration per Run 3	1.2225 ppm	101.3516 %	112.6605 %	96.6287 %	116.6376 %	129.2129 %	117.8097 %
Concentration RSD	0.2 %	0.4 %	0.5 %	0.1 %	0.3 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-13D2 WG1935259
Analysis started at: 6/18/2024 11:40:01 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	71.0471 ppm	0.0467 ppm	0.0057 ppm	0.2081 ppm	0.0059 ppm	16.0279 ppm
Concentration per Run 1	-0.0002 ppm	71.3019 ppm	0.0464 ppm	0.0070 ppm	0.2081 ppm	0.0059 ppm	16.0399 ppm
Concentration per Run 2	-0.0002 ppm	70.9054 ppm	0.0466 ppm	0.0051 ppm	0.2082 ppm	0.0059 ppm	16.0161 ppm
Concentration per Run 3	-0.0002 ppm	70.9339 ppm	0.0471 ppm	0.0051 ppm	0.2080 ppm	0.0059 ppm	16.0278 ppm
Concentration RSD	16.6 %	0.3 %	0.7 %	19.1 %	0.1 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0651 ppm	0.1100 ppm	0.1510 ppm	141.6560 ppm	3.4981 ppm	0.1605 ppm
Concentration per Run 1	0.0011 ppm	0.0649 ppm	0.1104 ppm	0.1518 ppm	141.8870 ppm	3.5242 ppm	0.1618 ppm
Concentration per Run 2	0.0011 ppm	0.0655 ppm	0.1100 ppm	0.1508 ppm	141.5998 ppm	3.5141 ppm	0.1615 ppm
Concentration per Run 3	0.0012 ppm	0.0649 ppm	0.1095 ppm	0.1504 ppm	141.4811 ppm	3.4559 ppm	0.1581 ppm
Concentration RSD	5.0 %	0.5 %	0.4 %	0.5 %	0.1 %	1.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9055 ppm	3.5696 ppm	-0.0002 ppm	0.4207 ppm	0.1139 ppm	0.1477 ppm	0.0008 ppm
Concentration per Run 1	30.0524 ppm	3.5802 ppm	-0.0001 ppm	0.4160 ppm	0.1149 ppm	0.1482 ppm	0.0006 ppm
Concentration per Run 2	29.9249 ppm	3.5658 ppm	-0.0003 ppm	0.4182 ppm	0.1133 ppm	0.1474 ppm	-0.0011 ppm
Concentration per Run 3	29.7393 ppm	3.5627 ppm	-0.0004 ppm	0.4278 ppm	0.1134 ppm	0.1476 ppm	0.0029 ppm
Concentration RSD	0.5 %	0.3 %	50.3 %	1.5 %	0.8 %	0.3 %	252.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	5.6819 ppm	0.0112 ppm	0.0997 ppm	2.6077 ppm	0.0009 ppm	0.1438 ppm
Concentration per Run 1	0.0006 ppm	5.7043 ppm	0.0114 ppm	0.1000 ppm	2.6177 ppm	0.0016 ppm	0.1447 ppm
Concentration per Run 2	-0.0010 ppm	5.6810 ppm	0.0115 ppm	0.0997 ppm	2.6056 ppm	0.0006 ppm	0.1435 ppm
Concentration per Run 3	-0.0010 ppm	5.6605 ppm	0.0107 ppm	0.0993 ppm	2.5999 ppm	0.0007 ppm	0.1432 ppm
Concentration RSD	185.9 %	0.4 %	4.2 %	0.4 %	0.3 %	55.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4355 ppm	102.1651 %	112.6506 %	97.1296 %	119.3015 %	132.2351 %	120.7932 %
Concentration per Run 1	0.4398 ppm	101.2499 %	112.9376 %	97.4476 %	118.4620 %	133.0881 %	120.8427 %
Concentration per Run 2	0.4335 ppm	102.1990 %	112.2575 %	96.6766 %	119.3698 %	131.5896 %	120.3080 %
Concentration per Run 3	0.4331 ppm	103.0463 %	112.7569 %	97.2647 %	120.0728 %	132.0275 %	121.2289 %
Concentration RSD	0.9 %	0.9 %	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-14D2 WG1935259
Analysis started at: 6/18/2024 11:43:58 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0012 ppm	87.2823 ppm	0.0553 ppm	0.0054 ppm	0.3111 ppm	0.0069 ppm	18.8908 ppm
Concentration per Run 1	-0.0012 ppm	87.0656 ppm	0.0547 ppm	0.0048 ppm	0.3098 ppm	0.0070 ppm	18.8709 ppm
Concentration per Run 2	-0.0013 ppm	87.2387 ppm	0.0557 ppm	0.0057 ppm	0.3106 ppm	0.0069 ppm	18.8676 ppm
Concentration per Run 3	-0.0010 ppm	87.5425 ppm	0.0554 ppm	0.0057 ppm	0.3128 ppm	0.0069 ppm	18.9340 ppm
Concentration RSD	12.6 %	0.3 %	1.0 %	9.0 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0682 ppm	0.1335 ppm	0.1568 ppm	167.3726 ppm	4.2606 ppm	0.1920 ppm
Concentration per Run 1	0.0008 ppm	0.0679 ppm	0.1332 ppm	0.1578 ppm	166.8157 ppm	4.2496 ppm	0.1958 ppm
Concentration per Run 2	0.0006 ppm	0.0683 ppm	0.1332 ppm	0.1569 ppm	167.6400 ppm	4.2709 ppm	0.1902 ppm
Concentration per Run 3	0.0007 ppm	0.0684 ppm	0.1341 ppm	0.1556 ppm	167.6621 ppm	4.2613 ppm	0.1899 ppm
Concentration RSD	14.8 %	0.4 %	0.4 %	0.7 %	0.3 %	0.2 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.7512 ppm	3.9427 ppm	-0.0015 ppm	0.5612 ppm	0.1328 ppm	0.1664 ppm	-0.0012 ppm
Concentration per Run 1	34.6892 ppm	3.9391 ppm	-0.0012 ppm	0.5643 ppm	0.1331 ppm	0.1670 ppm	0.0031 ppm
Concentration per Run 2	34.7340 ppm	3.9401 ppm	-0.0013 ppm	0.5601 ppm	0.1319 ppm	0.1667 ppm	-0.0054 ppm
Concentration per Run 3	34.8303 ppm	3.9489 ppm	-0.0019 ppm	0.5592 ppm	0.1334 ppm	0.1656 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.1 %	25.6 %	0.5 %	0.6 %	0.5 %	347.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	5.2428 ppm	0.0099 ppm	0.1255 ppm	3.6188 ppm	0.0009 ppm	0.1735 ppm
Concentration per Run 1	0.0022 ppm	5.2303 ppm	0.0102 ppm	0.1249 ppm	3.6139 ppm	0.0002 ppm	0.1729 ppm
Concentration per Run 2	0.0012 ppm	5.2562 ppm	0.0091 ppm	0.1253 ppm	3.6146 ppm	0.0030 ppm	0.1730 ppm
Concentration per Run 3	-0.0015 ppm	5.2421 ppm	0.0103 ppm	0.1263 ppm	3.6279 ppm	-0.0004 ppm	0.1746 ppm
Concentration RSD	303.7 %	0.2 %	6.8 %	0.6 %	0.2 %	193.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5058 ppm	101.5056 %	110.9721 %	95.8240 %	120.2537 %	132.6897 %	123.1207 %
Concentration per Run 1	0.5052 ppm	101.8238 %	111.7253 %	95.8192 %	121.0694 %	133.5409 %	122.8018 %
Concentration per Run 2	0.5042 ppm	101.6593 %	111.0221 %	95.7717 %	120.3314 %	132.4878 %	123.1827 %
Concentration per Run 3	0.5079 ppm	101.0336 %	110.1690 %	95.8812 %	119.3604 %	132.0405 %	123.3778 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.1 %	0.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-15D2 WG1935259
Analysis started at: 6/18/2024 11:47:55 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	58.0712 ppm	0.0255 ppm	0.0300 ppm	0.2083 ppm	0.0039 ppm	20.0788 ppm
Concentration per Run 1	0.0000 ppm	57.9337 ppm	0.0238 ppm	0.0298 ppm	0.2079 ppm	0.0040 ppm	20.0561 ppm
Concentration per Run 2	-0.0002 ppm	58.1152 ppm	0.0249 ppm	0.0300 ppm	0.2083 ppm	0.0038 ppm	20.0984 ppm
Concentration per Run 3	-0.0004 ppm	58.1646 ppm	0.0279 ppm	0.0302 ppm	0.2088 ppm	0.0039 ppm	20.0819 ppm
Concentration RSD	92.1 %	0.2 %	8.3 %	0.7 %	0.2 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0538 ppm	0.1277 ppm	0.2081 ppm	118.4794 ppm	4.3209 ppm	0.1155 ppm
Concentration per Run 1	0.0009 ppm	0.0541 ppm	0.1275 ppm	0.2092 ppm	118.4267 ppm	4.3676 ppm	0.1153 ppm
Concentration per Run 2	0.0009 ppm	0.0540 ppm	0.1283 ppm	0.2073 ppm	118.1098 ppm	4.2924 ppm	0.1163 ppm
Concentration per Run 3	0.0009 ppm	0.0534 ppm	0.1273 ppm	0.2077 ppm	118.9017 ppm	4.3028 ppm	0.1148 ppm
Concentration RSD	4.7 %	0.8 %	0.4 %	0.5 %	0.3 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.0041 ppm	3.0840 ppm	0.0029 ppm	1.3590 ppm	0.1005 ppm	0.1779 ppm	0.0003 ppm
Concentration per Run 1	40.1151 ppm	3.0828 ppm	0.0031 ppm	1.3537 ppm	0.1017 ppm	0.1758 ppm	0.0016 ppm
Concentration per Run 2	39.8937 ppm	3.0828 ppm	0.0026 ppm	1.3572 ppm	0.0987 ppm	0.1788 ppm	0.0007 ppm
Concentration per Run 3	40.0036 ppm	3.0862 ppm	0.0031 ppm	1.3660 ppm	0.1013 ppm	0.1791 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.1 %	9.0 %	0.5 %	1.6 %	1.0 %	539.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.8423 ppm	0.0069 ppm	0.1648 ppm	1.9195 ppm	0.0004 ppm	0.1090 ppm
Concentration per Run 1	0.0012 ppm	4.8889 ppm	0.0070 ppm	0.1654 ppm	1.9130 ppm	-0.0011 ppm	0.1092 ppm
Concentration per Run 2	-0.0013 ppm	4.8510 ppm	0.0067 ppm	0.1643 ppm	1.9244 ppm	0.0013 ppm	0.1090 ppm
Concentration per Run 3	0.0027 ppm	4.7870 ppm	0.0069 ppm	0.1648 ppm	1.9210 ppm	0.0009 ppm	0.1089 ppm
Concentration RSD	230.5 %	1.1 %	2.0 %	0.3 %	0.3 %	356.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4001 ppm	99.4003 %	108.8327 %	96.0708 %	109.6257 %	119.5189 %	110.7980 %
Concentration per Run 1	0.4018 ppm	99.0718 %	109.6562 %	96.3092 %	109.7705 %	120.2227 %	111.0343 %
Concentration per Run 2	0.3992 ppm	99.9653 %	108.7988 %	95.9427 %	110.3349 %	119.5773 %	110.5603 %
Concentration per Run 3	0.3992 ppm	99.1639 %	108.0430 %	95.9605 %	108.7718 %	118.7566 %	110.7995 %
Concentration RSD	0.4 %	0.5 %	0.7 %	0.2 %	0.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-16D2 WG1935259
Analysis started at: 6/18/2024 11:51:52 AM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0024 ppm	69.1065 ppm	0.0658 ppm	0.1081 ppm	0.5950 ppm	0.0095 ppm	31.5181 ppm
Concentration per Run 1	0.0022 ppm	68.9527 ppm	0.0654 ppm	0.1071 ppm	0.5928 ppm	0.0097 ppm	31.5443 ppm
Concentration per Run 2	0.0024 ppm	69.1936 ppm	0.0666 ppm	0.1085 ppm	0.5969 ppm	0.0095 ppm	31.4619 ppm
Concentration per Run 3	0.0025 ppm	69.1732 ppm	0.0653 ppm	0.1088 ppm	0.5954 ppm	0.0095 ppm	31.5481 ppm
Concentration RSD	7.8 %	0.2 %	1.1 %	0.8 %	0.4 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0098 ppm	0.0594 ppm	0.5111 ppm	1.6723 ppm	222.4143 ppm	4.5059 ppm	0.1069 ppm
Concentration per Run 1	0.0097 ppm	0.0598 ppm	0.5108 ppm	1.6732 ppm	222.4500 ppm	4.5386 ppm	0.1073 ppm
Concentration per Run 2	0.0097 ppm	0.0591 ppm	0.5113 ppm	1.6760 ppm	222.2211 ppm	4.5148 ppm	0.1059 ppm
Concentration per Run 3	0.0099 ppm	0.0593 ppm	0.5112 ppm	1.6677 ppm	222.5719 ppm	4.4643 ppm	0.1075 ppm
Concentration RSD	0.9 %	0.6 %	0.1 %	0.3 %	0.1 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.8472 ppm	3.7186 ppm	0.0335 ppm	5.7523 ppm	0.3829 ppm	5.1250 ppm	0.0107 ppm
Concentration per Run 1	30.8841 ppm	3.7210 ppm	0.0328 ppm	5.7515 ppm	0.3823 ppm	5.1244 ppm	0.0115 ppm
Concentration per Run 2	30.7887 ppm	3.7184 ppm	0.0340 ppm	5.7220 ppm	0.3841 ppm	5.1317 ppm	0.0114 ppm
Concentration per Run 3	30.8689 ppm	3.7165 ppm	0.0337 ppm	5.7833 ppm	0.3823 ppm	5.1189 ppm	0.0092 ppm
Concentration RSD	0.2 %	0.1 %	1.8 %	0.5 %	0.3 %	0.1 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	5.5655 ppm	0.1377 ppm	0.1653 ppm	2.2587 ppm	0.0000 ppm	0.1842 ppm
Concentration per Run 1	0.0034 ppm	5.5645 ppm	0.1366 ppm	0.1652 ppm	2.2609 ppm	0.0003 ppm	0.1838 ppm
Concentration per Run 2	0.0029 ppm	5.5664 ppm	0.1384 ppm	0.1656 ppm	2.2614 ppm	0.0010 ppm	0.1841 ppm
Concentration per Run 3	0.0028 ppm	5.5657 ppm	0.1381 ppm	0.1652 ppm	2.2537 ppm	-0.0012 ppm	0.1846 ppm
Concentration RSD	10.5 %	0.0 %	0.7 %	0.1 %	0.2 %	4,464.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.7151 ppm	101.8908 %	110.2661 %	95.7124 %	134.5488 %	146.7358 %	135.5668 %
Concentration per Run 1	3.7116 ppm	101.7879 %	109.9420 %	95.7989 %	134.2409 %	146.6420 %	135.8012 %
Concentration per Run 2	3.7206 ppm	102.2792 %	110.7784 %	95.7734 %	135.0717 %	147.3007 %	135.5941 %
Concentration per Run 3	3.7131 ppm	101.6053 %	110.0779 %	95.5650 %	134.3337 %	146.2645 %	135.3052 %
Concentration RSD	0.1 %	0.3 %	0.4 %	0.1 %	0.3 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 11:55:49 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5176 ppm	0.4916 ppm	0.4976 ppm	0.5105 ppm	0.5125 ppm	0.5171 ppm	0.5068 ppm
Concentration per Run 1	0.5160 ppm	0.4862 ppm	0.4955 ppm	0.5057 ppm	0.5135 ppm	0.5147 ppm	0.5085 ppm
Concentration per Run 2	0.5180 ppm	0.4887 ppm	0.4982 ppm	0.5125 ppm	0.5133 ppm	0.5187 ppm	0.5068 ppm
Concentration per Run 3	0.5188 ppm	0.5000 ppm	0.4990 ppm	0.5134 ppm	0.5108 ppm	0.5179 ppm	0.5050 ppm
Recovery Percentage 1	103.520 %	98.326 %	99.516 %	102.103 %	102.509 %	103.415 %	101.356 %
Concentration RSD	0.3 %	1.5 %	0.4 %	0.8 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5246 ppm	0.5280 ppm	0.5163 ppm	0.5048 ppm	0.5311 ppm	5.1108 ppm	0.4755 ppm
Concentration per Run 1	0.5233 ppm	0.5265 ppm	0.5147 ppm	0.5034 ppm	0.5345 ppm	5.1695 ppm	0.4793 ppm
Concentration per Run 2	0.5253 ppm	0.5291 ppm	0.5168 ppm	0.5042 ppm	0.5318 ppm	5.0821 ppm	0.4717 ppm
Concentration per Run 3	0.5254 ppm	0.5284 ppm	0.5172 ppm	0.5068 ppm	0.5271 ppm	5.0809 ppm	0.4755 ppm
Recovery Percentage 1	104.929 %	105.603 %	103.250 %	100.966 %	106.226 %	102.217 %	95.102 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.4 %	0.7 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5101 ppm	0.4928 ppm	0.5125 ppm	10.6766 ppm	0.5341 ppm	0.5119 ppm	0.5079 ppm
Concentration per Run 1	0.5090 ppm	0.4930 ppm	0.5024 ppm	10.6798 ppm	0.5320 ppm	0.5099 ppm	0.5011 ppm
Concentration per Run 2	0.5118 ppm	0.4925 ppm	0.5146 ppm	10.7065 ppm	0.5355 ppm	0.5119 ppm	0.5074 ppm
Concentration per Run 3	0.5094 ppm	0.4929 ppm	0.5206 ppm	10.6435 ppm	0.5349 ppm	0.5140 ppm	0.5151 ppm
Recovery Percentage 1	102.017 %	98.558 %	102.502 %	106.766 %	106.826 %	102.385 %	101.570 %
Concentration RSD	0.3 %	0.1 %	1.8 %	0.3 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5123 ppm	5.4037 ppm	0.5421 ppm	0.5170 ppm	0.5226 ppm	0.5086 ppm	0.5158 ppm
Concentration per Run 1	0.5099 ppm	5.3754 ppm	0.5389 ppm	0.5164 ppm	0.5194 ppm	0.5067 ppm	0.5148 ppm
Concentration per Run 2	0.5113 ppm	5.4111 ppm	0.5428 ppm	0.5196 ppm	0.5238 ppm	0.5087 ppm	0.5161 ppm
Concentration per Run 3	0.5157 ppm	5.4247 ppm	0.5445 ppm	0.5151 ppm	0.5246 ppm	0.5105 ppm	0.5166 ppm
Recovery Percentage 1	102.456 %	102.928 %	108.414 %	103.407 %	104.524 %	101.727 %	103.168 %
Concentration RSD	0.6 %	0.5 %	0.5 %	0.5 %	0.5 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5347 ppm	99.8506 %	107.6233 %	100.1577 %	97.9322 %	104.8752 %	98.9782 %
Concentration per Run 1	0.5345 ppm	99.3646 %	107.8318 %	100.2595 %	97.0668 %	105.1533 %	99.3061 %
Concentration per Run 2	0.5344 ppm	100.0391 %	107.5489 %	100.5064 %	98.1613 %	104.8324 %	99.1832 %
Concentration per Run 3	0.5350 ppm	100.1479 %	107.4891 %	99.7072 %	98.5684 %	104.6399 %	98.4454 %
Recovery Percentage 1	106.930 %						
Concentration RSD	0.1 %	0.4 %	0.2 %	0.4 %	0.8 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 11:59:46 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0185 ppm	-0.0012 ppm	0.0010 ppm	-0.0004 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 1	0.0002 ppm	-0.0154 ppm	-0.0015 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 2	-0.0002 ppm	-0.0228 ppm	-0.0030 ppm	0.0020 ppm	-0.0004 ppm	0.0001 ppm	-0.0032 ppm
Concentration per Run 3	-0.0003 ppm	-0.0173 ppm	0.0008 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	-0.0027 ppm
Recovery Percentage 1	-1.652 %	-18.487 %	-40.608 %	3.183 %	-3.964 %	1.122 %	-2.472 %
Concentration RSD	250.5 %	20.8 %	153.6 %	99.4 %	10.2 %	43.6 %	34.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0081 ppm	-0.0418 ppm	-0.0029 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0084 ppm	-0.0520 ppm	-0.0047 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0073 ppm	-0.0596 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0086 ppm	-0.0137 ppm	-0.0032 ppm
Recovery Percentage 1	0.558 %	-0.840 %	-0.085 %	3.908 %	16.162 %	-1.670 %	-29.391 %
Concentration RSD	371.0 %	64.3 %	3,075.9 %	113.8 %	8.5 %	58.9 %	64.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0020 ppm	0.0002 ppm	-0.0014 ppm	0.0211 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0005 ppm	-0.0015 ppm	0.0183 ppm	-0.0002 ppm	0.0002 ppm	-0.0024 ppm
Concentration per Run 2	-0.0022 ppm	0.0000 ppm	-0.0018 ppm	0.0229 ppm	0.0001 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.0003 ppm	-0.0010 ppm	0.0222 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm
Recovery Percentage 1	-1.977 %	2.396 %	-2.868 %	1.056 %	0.025 %	6.519 %	0.154 %
Concentration RSD	35.0 %	99.3 %	26.7 %	11.9 %	3,635.2 %	98.6 %	3,333.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0012 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 2	0.0019 ppm	0.0020 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	-0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.0015 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0027 ppm	-0.0001 ppm
Recovery Percentage 1	3.797 %	0.237 %	1.046 %	0.796 %	2.772 %	-2.317 %	-2.361 %
Concentration RSD	360.4 %	81.5 %	137.1 %	53.4 %	38.9 %	422.9 %	86.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	93.8253 %	103.4119 %	96.2443 %	99.0280 %	105.1671 %	99.9505 %
Concentration per Run 1	0.0008 ppm	92.7003 %	103.4091 %	95.7412 %	98.5686 %	105.4522 %	99.7194 %
Concentration per Run 2	0.0005 ppm	93.4911 %	102.7801 %	96.5788 %	98.6810 %	104.3086 %	100.2886 %
Concentration per Run 3	0.0007 ppm	95.2845 %	104.0464 %	96.4128 %	99.8345 %	105.7405 %	99.8436 %
Recovery Percentage 1	13.337 %						
Concentration RSD	17.1 %	1.4 %	0.6 %	0.5 %	0.7 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-1 WG1935622
Analysis started at: 6/18/2024 12:16:14 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0108 ppm	-0.0005 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0225 ppm
Concentration per Run 1	0.0001 ppm	-0.0062 ppm	0.0003 ppm	-0.0010 ppm	-0.0004 ppm	0.0000 ppm	0.0226 ppm
Concentration per Run 2	0.0000 ppm	-0.0151 ppm	0.0003 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0228 ppm
Concentration per Run 3	-0.0002 ppm	-0.0111 ppm	-0.0022 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0222 ppm
Recovery Percentage 1	-0.710 %	-10.806 %	-17.566 %	2.197 %	-1.025 %	-0.049 %	22.502 %
Concentration RSD	234.9 %	40.9 %	276.2 %	222.1 %	212.3 %	2,276.3 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0003 ppm	0.0206 ppm	-0.0342 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0010 ppm	-0.0004 ppm	0.0206 ppm	-0.0147 ppm	-0.0035 ppm
Concentration per Run 2	-0.0001 ppm	-0.0005 ppm	0.0005 ppm	-0.0005 ppm	0.0190 ppm	-0.0538 ppm	-0.0055 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0000 ppm	0.0223 ppm	-0.0341 ppm	-0.0023 ppm
Recovery Percentage 1	-0.854 %	-2.148 %	7.787 %	-3.153 %	41.242 %	-1.368 %	-37.557 %
Concentration RSD	76.8 %	25.8 %	31.1 %	74.9 %	8.1 %	57.1 %	43.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0109 ppm	0.0008 ppm	-0.0028 ppm	0.0430 ppm	0.0002 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 1	0.0114 ppm	0.0008 ppm	-0.0026 ppm	0.0415 ppm	0.0003 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 2	0.0111 ppm	0.0008 ppm	-0.0027 ppm	0.0451 ppm	0.0003 ppm	0.0013 ppm	-0.0012 ppm
Concentration per Run 3	0.0102 ppm	0.0007 ppm	-0.0032 ppm	0.0424 ppm	0.0000 ppm	-0.0009 ppm	-0.0031 ppm
Recovery Percentage 1	10.877 %	7.559 %	-5.643 %	2.149 %	0.778 %	2.326 %	-3.618 %
Concentration RSD	5.8 %	10.0 %	10.4 %	4.3 %	74.6 %	480.0 %	62.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	0.0115 ppm	0.0009 ppm	0.0002 ppm	0.0007 ppm	-0.0015 ppm	-0.0004 ppm
Concentration per Run 1	0.0035 ppm	0.0105 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	-0.0018 ppm	-0.0004 ppm
Concentration per Run 2	0.0026 ppm	0.0116 ppm	0.0011 ppm	0.0002 ppm	0.0010 ppm	-0.0013 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0125 ppm	0.0012 ppm	0.0002 ppm	0.0009 ppm	-0.0015 ppm	-0.0004 ppm
Recovery Percentage 1	20.321 %	2.305 %	1.743 %	1.714 %	6.778 %	-7.560 %	-3.816 %
Concentration RSD	92.0 %	8.9 %	57.1 %	20.9 %	66.9 %	17.3 %	5.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	106.6985 %	106.5760 %	104.6666 %	103.3037 %	104.7148 %	103.6889 %
Concentration per Run 1	0.0015 ppm	106.7982 %	107.6105 %	105.0887 %	102.7917 %	105.2484 %	103.9250 %
Concentration per Run 2	0.0011 ppm	107.1312 %	105.4946 %	104.5111 %	103.8790 %	103.7671 %	103.2831 %
Concentration per Run 3	0.0012 ppm	106.1661 %	106.6229 %	104.3999 %	103.2405 %	105.1289 %	103.8585 %
Recovery Percentage 1	24.956 %						
Concentration RSD	15.3 %	0.5 %	1.0 %	0.4 %	0.5 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-2D2 WG1935622
Analysis started at: 6/18/2024 12:20:28 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	2.0465 ppm	0.1184 ppm	0.9830 ppm	1.9756 ppm	0.0505 ppm	9.7738 ppm
Concentration per Run 1	0.0504 ppm	2.0504 ppm	0.1166 ppm	0.9900 ppm	1.9750 ppm	0.0506 ppm	9.7849 ppm
Concentration per Run 2	0.0501 ppm	2.0471 ppm	0.1190 ppm	0.9781 ppm	1.9783 ppm	0.0504 ppm	9.7679 ppm
Concentration per Run 3	0.0504 ppm	2.0418 ppm	0.1196 ppm	0.9807 ppm	1.9734 ppm	0.0505 ppm	9.7687 ppm
Concentration RSD	0.3 %	0.2 %	1.3 %	0.6 %	0.1 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0534 ppm	0.5045 ppm	0.2023 ppm	0.2507 ppm	0.9681 ppm	9.5972 ppm	-0.0019 ppm
Concentration per Run 1	0.0536 ppm	0.5082 ppm	0.2023 ppm	0.2513 ppm	0.9707 ppm	9.6293 ppm	-0.0005 ppm
Concentration per Run 2	0.0531 ppm	0.5028 ppm	0.2025 ppm	0.2500 ppm	0.9648 ppm	9.5892 ppm	-0.0026 ppm
Concentration per Run 3	0.0535 ppm	0.5026 ppm	0.2020 ppm	0.2509 ppm	0.9688 ppm	9.5730 ppm	-0.0024 ppm
Concentration RSD	0.5 %	0.6 %	0.1 %	0.3 %	0.3 %	0.3 %	62.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.8312 ppm	0.4754 ppm	1.0023 ppm	10.4362 ppm	0.5001 ppm	0.5353 ppm	0.5035 ppm
Concentration per Run 1	9.8869 ppm	0.4762 ppm	0.9939 ppm	10.4550 ppm	0.4997 ppm	0.5357 ppm	0.5073 ppm
Concentration per Run 2	9.8202 ppm	0.4749 ppm	0.9988 ppm	10.4437 ppm	0.5003 ppm	0.5354 ppm	0.4983 ppm
Concentration per Run 3	9.7864 ppm	0.4753 ppm	1.0143 ppm	10.4099 ppm	0.5003 ppm	0.5348 ppm	0.5048 ppm
Concentration RSD	0.5 %	0.1 %	1.1 %	0.2 %	0.1 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1226 ppm	0.9768 ppm	1.0151 ppm	0.9585 ppm	1.0054 ppm	0.1165 ppm	0.5139 ppm
Concentration per Run 1	0.1242 ppm	0.9812 ppm	1.0165 ppm	0.9576 ppm	1.0063 ppm	0.1162 ppm	0.5146 ppm
Concentration per Run 2	0.1214 ppm	0.9680 ppm	1.0138 ppm	0.9585 ppm	1.0070 ppm	0.1169 ppm	0.5143 ppm
Concentration per Run 3	0.1222 ppm	0.9813 ppm	1.0151 ppm	0.9594 ppm	1.0029 ppm	0.1165 ppm	0.5128 ppm
Concentration RSD	1.2 %	0.8 %	0.1 %	0.1 %	0.2 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5123 ppm	98.8965 %	106.5792 %	98.1418 %	97.9834 %	104.1088 %	98.7331 %
Concentration per Run 1	0.5150 ppm	97.7128 %	106.6924 %	98.4215 %	97.3057 %	104.6295 %	99.4343 %
Concentration per Run 2	0.5104 ppm	99.1860 %	106.3122 %	97.7116 %	98.0546 %	103.4745 %	98.2050 %
Concentration per Run 3	0.5116 ppm	99.7907 %	106.7329 %	98.2924 %	98.5901 %	104.2223 %	98.5600 %
Concentration RSD	0.5 %	1.1 %	0.2 %	0.4 %	0.7 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433512-01D2 WG1935622
Analysis started at: 6/18/2024 12:24:25 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	93.5818 ppm	0.0526 ppm	0.0606 ppm	0.5397 ppm	0.0045 ppm	67.6596 ppm
Concentration per Run 1	-0.0001 ppm	93.4803 ppm	0.0516 ppm	0.0599 ppm	0.5348 ppm	0.0046 ppm	67.5896 ppm
Concentration per Run 2	0.0001 ppm	93.7393 ppm	0.0518 ppm	0.0603 ppm	0.5427 ppm	0.0045 ppm	67.6891 ppm
Concentration per Run 3	0.0001 ppm	93.5259 ppm	0.0544 ppm	0.0616 ppm	0.5417 ppm	0.0045 ppm	67.7001 ppm
Concentration RSD	203.3 %	0.1 %	2.9 %	1.5 %	0.8 %	1.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0772 ppm	0.2805 ppm	0.4222 ppm	162.3249 ppm	5.5502 ppm	0.0821 ppm
Concentration per Run 1	0.0015 ppm	0.0770 ppm	0.2805 ppm	0.4227 ppm	161.8029 ppm	5.5352 ppm	0.0831 ppm
Concentration per Run 2	0.0015 ppm	0.0776 ppm	0.2800 ppm	0.4223 ppm	162.9157 ppm	5.5818 ppm	0.0833 ppm
Concentration per Run 3	0.0016 ppm	0.0770 ppm	0.2811 ppm	0.4215 ppm	162.2561 ppm	5.5336 ppm	0.0799 ppm
Concentration RSD	4.5 %	0.5 %	0.2 %	0.1 %	0.3 %	0.5 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.3220 ppm	3.2935 ppm	0.0232 ppm	3.6484 ppm	0.4456 ppm	0.5493 ppm	0.0031 ppm
Concentration per Run 1	47.4089 ppm	3.2882 ppm	0.0215 ppm	3.6409 ppm	0.4462 ppm	0.5510 ppm	0.0051 ppm
Concentration per Run 2	47.2216 ppm	3.2913 ppm	0.0242 ppm	3.6866 ppm	0.4428 ppm	0.5470 ppm	0.0004 ppm
Concentration per Run 3	47.3354 ppm	3.3008 ppm	0.0240 ppm	3.6176 ppm	0.4480 ppm	0.5499 ppm	0.0040 ppm
Concentration RSD	0.2 %	0.2 %	6.5 %	1.0 %	0.6 %	0.4 %	77.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	20.8854 ppm	0.0151 ppm	0.2352 ppm	3.2595 ppm	0.0011 ppm	0.3622 ppm
Concentration per Run 1	0.0058 ppm	21.4974 ppm	0.0156 ppm	0.2358 ppm	3.2723 ppm	0.0018 ppm	0.3626 ppm
Concentration per Run 2	0.0026 ppm	20.7325 ppm	0.0146 ppm	0.2356 ppm	3.2686 ppm	0.0015 ppm	0.3614 ppm
Concentration per Run 3	0.0041 ppm	20.4263 ppm	0.0152 ppm	0.2342 ppm	3.2376 ppm	0.0001 ppm	0.3627 ppm
Concentration RSD	38.7 %	2.6 %	3.4 %	0.4 %	0.6 %	80.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6388 ppm	104.2917 %	114.3730 %	96.6226 %	122.2948 %	135.0444 %	124.0828 %
Concentration per Run 1	0.6380 ppm	104.0561 %	114.4723 %	96.9294 %	122.1767 %	134.8410 %	124.3096 %
Concentration per Run 2	0.6380 ppm	104.6250 %	114.5279 %	96.7299 %	122.6679 %	135.3236 %	124.1160 %
Concentration per Run 3	0.6404 ppm	104.1942 %	114.1188 %	96.2086 %	122.0398 %	134.9686 %	123.8229 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.4 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2434010-01D2 WG1935622
Analysis started at: 6/18/2024 12:28:23 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0027 ppm	89.4937 ppm	0.0689 ppm	0.0301 ppm	0.4690 ppm	0.0050 ppm	10.0127 ppm
Concentration per Run 1	-0.0026 ppm	89.2169 ppm	0.0689 ppm	0.0297 ppm	0.4632 ppm	0.0051 ppm	10.0552 ppm
Concentration per Run 2	-0.0027 ppm	89.7573 ppm	0.0662 ppm	0.0304 ppm	0.4720 ppm	0.0050 ppm	9.9833 ppm
Concentration per Run 3	-0.0027 ppm	89.5069 ppm	0.0716 ppm	0.0302 ppm	0.4718 ppm	0.0050 ppm	9.9997 ppm
Concentration RSD	2.9 %	0.3 %	3.9 %	1.0 %	1.1 %	1.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.1259 ppm	0.1518 ppm	0.1562 ppm	210.8584 ppm	7.3284 ppm	0.1043 ppm
Concentration per Run 1	0.0005 ppm	0.1266 ppm	0.1517 ppm	0.1553 ppm	210.2207 ppm	7.2656 ppm	0.1048 ppm
Concentration per Run 2	0.0005 ppm	0.1256 ppm	0.1515 ppm	0.1563 ppm	210.5909 ppm	7.3586 ppm	0.1033 ppm
Concentration per Run 3	0.0003 ppm	0.1254 ppm	0.1523 ppm	0.1570 ppm	211.7636 ppm	7.3610 ppm	0.1047 ppm
Concentration RSD	18.6 %	0.5 %	0.3 %	0.5 %	0.4 %	0.7 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.5406 ppm	16.4329 ppm	0.0004 ppm	0.6879 ppm	0.1326 ppm	0.1212 ppm	0.0023 ppm
Concentration per Run 1	25.5200 ppm	16.4359 ppm	0.0002 ppm	0.6934 ppm	0.1325 ppm	0.1219 ppm	0.0044 ppm
Concentration per Run 2	25.5686 ppm	16.4162 ppm	0.0003 ppm	0.6940 ppm	0.1322 ppm	0.1207 ppm	0.0046 ppm
Concentration per Run 3	25.5332 ppm	16.4466 ppm	0.0005 ppm	0.6764 ppm	0.1331 ppm	0.1211 ppm	-0.0020 ppm
Concentration RSD	0.1 %	0.1 %	38.5 %	1.5 %	0.3 %	0.5 %	160.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	23.2687 ppm	0.0066 ppm	0.0879 ppm	2.2141 ppm	0.0014 ppm	0.2425 ppm
Concentration per Run 1	-0.0023 ppm	23.6930 ppm	0.0066 ppm	0.0890 ppm	2.2312 ppm	0.0025 ppm	0.2422 ppm
Concentration per Run 2	0.0053 ppm	23.3548 ppm	0.0079 ppm	0.0873 ppm	2.2042 ppm	0.0012 ppm	0.2429 ppm
Concentration per Run 3	0.0016 ppm	22.7583 ppm	0.0052 ppm	0.0874 ppm	2.2069 ppm	0.0006 ppm	0.2422 ppm
Concentration RSD	245.5 %	2.0 %	20.5 %	1.1 %	0.7 %	65.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3869 ppm	103.9380 %	106.7785 %	98.3219 %	118.8984 %	126.5864 %	123.5257 %
Concentration per Run 1	0.3873 ppm	103.8605 %	104.7542 %	98.6746 %	118.0947 %	125.2560 %	123.1548 %
Concentration per Run 2	0.3863 ppm	104.0538 %	107.6385 %	98.0501 %	118.9538 %	126.9935 %	123.1309 %
Concentration per Run 3	0.3870 ppm	103.8996 %	107.9429 %	98.2410 %	119.6465 %	127.5098 %	124.2914 %
Concentration RSD	0.1 %	0.1 %	1.6 %	0.3 %	0.7 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2434010-02D2 WG1935622
Analysis started at: 6/18/2024 12:32:21 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0015 ppm	97.3220 ppm	0.0483 ppm	0.0258 ppm	0.3475 ppm	0.0053 ppm	13.1073 ppm
Concentration per Run 1	-0.0019 ppm	97.5962 ppm	0.0490 ppm	0.0279 ppm	0.3458 ppm	0.0054 ppm	13.1444 ppm
Concentration per Run 2	-0.0013 ppm	96.9534 ppm	0.0457 ppm	0.0241 ppm	0.3477 ppm	0.0053 ppm	13.0618 ppm
Concentration per Run 3	-0.0014 ppm	97.4164 ppm	0.0502 ppm	0.0254 ppm	0.3491 ppm	0.0053 ppm	13.1155 ppm
Concentration RSD	19.9 %	0.3 %	4.8 %	7.4 %	0.5 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0604 ppm	0.1517 ppm	0.1756 ppm	162.7063 ppm	6.9277 ppm	0.1389 ppm
Concentration per Run 1	-0.0002 ppm	0.0599 ppm	0.1515 ppm	0.1758 ppm	162.4428 ppm	6.9170 ppm	0.1404 ppm
Concentration per Run 2	0.0000 ppm	0.0603 ppm	0.1518 ppm	0.1758 ppm	162.7887 ppm	6.9400 ppm	0.1380 ppm
Concentration per Run 3	-0.0001 ppm	0.0609 ppm	0.1520 ppm	0.1753 ppm	162.8873 ppm	6.9260 ppm	0.1384 ppm
Concentration RSD	110.4 %	0.8 %	0.2 %	0.2 %	0.1 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.6417 ppm	1.7792 ppm	0.0000 ppm	0.8947 ppm	0.1371 ppm	0.0976 ppm	0.0016 ppm
Concentration per Run 1	34.6067 ppm	1.7819 ppm	0.0011 ppm	0.9094 ppm	0.1372 ppm	0.0977 ppm	-0.0013 ppm
Concentration per Run 2	34.7080 ppm	1.7777 ppm	-0.0005 ppm	0.8696 ppm	0.1367 ppm	0.0977 ppm	0.0017 ppm
Concentration per Run 3	34.6103 ppm	1.7779 ppm	-0.0006 ppm	0.9051 ppm	0.1375 ppm	0.0974 ppm	0.0045 ppm
Concentration RSD	0.2 %	0.1 %	7,727.5 %	2.4 %	0.3 %	0.2 %	181.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	22.3799 ppm	0.0050 ppm	0.1201 ppm	1.6723 ppm	0.0025 ppm	0.2120 ppm
Concentration per Run 1	0.0008 ppm	22.8151 ppm	0.0054 ppm	0.1207 ppm	1.7072 ppm	0.0018 ppm	0.2128 ppm
Concentration per Run 2	0.0019 ppm	22.2412 ppm	0.0041 ppm	0.1196 ppm	1.6920 ppm	0.0024 ppm	0.2112 ppm
Concentration per Run 3	0.0003 ppm	22.0833 ppm	0.0054 ppm	0.1200 ppm	1.6178 ppm	0.0034 ppm	0.2119 ppm
Concentration RSD	85.7 %	1.7 %	14.5 %	0.4 %	2.9 %	31.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4414 ppm	103.7000 %	106.1327 %	99.2087 %	124.7952 %	132.0325 %	128.8871 %
Concentration per Run 1	0.4419 ppm	103.2088 %	105.7010 %	98.8217 %	124.2857 %	132.5287 %	128.6668 %
Concentration per Run 2	0.4396 ppm	103.8623 %	107.0323 %	99.6383 %	125.1362 %	132.5760 %	129.2605 %
Concentration per Run 3	0.4427 ppm	104.0289 %	105.6646 %	99.1660 %	124.9637 %	130.9926 %	128.7340 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.4 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2431167-01D2 WG1935622
Analysis started at: 6/18/2024 12:36:19 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0024 ppm	151.0038 ppm	0.0443 ppm	0.0068 ppm	0.1738 ppm	0.0052 ppm	18.8056 ppm
Concentration per Run 1	-0.0021 ppm	151.0773 ppm	0.0444 ppm	0.0089 ppm	0.1755 ppm	0.0052 ppm	18.7914 ppm
Concentration per Run 2	-0.0025 ppm	150.8559 ppm	0.0440 ppm	0.0047 ppm	0.1738 ppm	0.0052 ppm	18.7997 ppm
Concentration per Run 3	-0.0025 ppm	151.0783 ppm	0.0446 ppm	0.0068 ppm	0.1721 ppm	0.0051 ppm	18.8258 ppm
Concentration RSD	10.1 %	0.1 %	0.7 %	30.6 %	1.0 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.1888 ppm	0.2106 ppm	0.3068 ppm	304.4762 ppm	5.4148 ppm	0.2643 ppm
Concentration per Run 1	0.0007 ppm	0.1889 ppm	0.2115 ppm	0.3065 ppm	305.3248 ppm	5.5382 ppm	0.2636 ppm
Concentration per Run 2	0.0008 ppm	0.1886 ppm	0.2096 ppm	0.3073 ppm	304.3610 ppm	5.4232 ppm	0.2660 ppm
Concentration per Run 3	0.0007 ppm	0.1889 ppm	0.2106 ppm	0.3065 ppm	303.7429 ppm	5.2831 ppm	0.2631 ppm
Concentration RSD	13.0 %	0.1 %	0.5 %	0.2 %	0.3 %	2.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	52.0570 ppm	7.5499 ppm	-0.0005 ppm	1.2675 ppm	0.3248 ppm	0.1996 ppm	0.0045 ppm
Concentration per Run 1	52.0241 ppm	7.5559 ppm	-0.0009 ppm	1.2853 ppm	0.3268 ppm	0.2021 ppm	0.0096 ppm
Concentration per Run 2	52.0461 ppm	7.5444 ppm	0.0004 ppm	1.2678 ppm	0.3240 ppm	0.1986 ppm	0.0002 ppm
Concentration per Run 3	52.1008 ppm	7.5495 ppm	-0.0011 ppm	1.2494 ppm	0.3237 ppm	0.1982 ppm	0.0037 ppm
Concentration RSD	0.1 %	0.1 %	159.4 %	1.4 %	0.5 %	1.1 %	106.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	31.9719 ppm	0.0039 ppm	0.1181 ppm	1.6582 ppm	0.0024 ppm	0.1816 ppm
Concentration per Run 1	-0.0010 ppm	32.9774 ppm	0.0037 ppm	0.1188 ppm	1.7179 ppm	0.0015 ppm	0.1815 ppm
Concentration per Run 2	0.0040 ppm	31.9247 ppm	0.0036 ppm	0.1177 ppm	1.6423 ppm	0.0039 ppm	0.1819 ppm
Concentration per Run 3	0.0013 ppm	31.0136 ppm	0.0044 ppm	0.1176 ppm	1.6145 ppm	0.0018 ppm	0.1813 ppm
Concentration RSD	174.0 %	3.1 %	11.2 %	0.6 %	3.2 %	55.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7188 ppm	100.4791 %	103.7939 %	93.9942 %	107.3505 %	114.4354 %	110.7413 %
Concentration per Run 1	0.7195 ppm	100.5546 %	103.3055 %	94.0586 %	106.3600 %	113.8211 %	110.8991 %
Concentration per Run 2	0.7168 ppm	100.6989 %	104.0001 %	93.9257 %	107.0830 %	114.5443 %	110.7926 %
Concentration per Run 3	0.7200 ppm	100.1839 %	104.0762 %	93.9982 %	108.6085 %	114.9408 %	110.5322 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.1 %	1.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-3D2 WG1935622
Analysis started at: 6/18/2024 12:40:16 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0476 ppm	176.9068 ppm	0.1765 ppm	0.9171 ppm	2.0185 ppm	0.0572 ppm	28.0670 ppm
Concentration per Run 1	0.0470 ppm	176.5784 ppm	0.1749 ppm	0.9078 ppm	2.0224 ppm	0.0573 ppm	28.0848 ppm
Concentration per Run 2	0.0478 ppm	177.2398 ppm	0.1769 ppm	0.9186 ppm	2.0042 ppm	0.0567 ppm	27.9467 ppm
Concentration per Run 3	0.0480 ppm	176.9023 ppm	0.1777 ppm	0.9249 ppm	2.0290 ppm	0.0577 ppm	28.1694 ppm
Concentration RSD	1.1 %	0.2 %	0.8 %	0.9 %	0.6 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0500 ppm	0.6709 ppm	0.4385 ppm	0.5697 ppm	356.5149 ppm	12.8740 ppm	0.3045 ppm
Concentration per Run 1	0.0497 ppm	0.6653 ppm	0.4343 ppm	0.5663 ppm	356.8529 ppm	12.8666 ppm	0.3071 ppm
Concentration per Run 2	0.0500 ppm	0.6725 ppm	0.4393 ppm	0.5710 ppm	354.4083 ppm	12.8894 ppm	0.3014 ppm
Concentration per Run 3	0.0505 ppm	0.6750 ppm	0.4418 ppm	0.5717 ppm	358.2836 ppm	12.8662 ppm	0.3050 ppm
Concentration RSD	0.8 %	0.8 %	0.9 %	0.5 %	0.5 %	0.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	69.9780 ppm	6.9010 ppm	0.9599 ppm	11.8938 ppm	0.8587 ppm	0.7467 ppm	0.4710 ppm
Concentration per Run 1	69.4761 ppm	6.9008 ppm	0.9360 ppm	11.9281 ppm	0.8490 ppm	0.7498 ppm	0.4637 ppm
Concentration per Run 2	70.2114 ppm	6.8964 ppm	0.9631 ppm	11.7887 ppm	0.8629 ppm	0.7490 ppm	0.4722 ppm
Concentration per Run 3	70.2466 ppm	6.9057 ppm	0.9805 ppm	11.9647 ppm	0.8641 ppm	0.7414 ppm	0.4771 ppm
Concentration RSD	0.6 %	0.1 %	2.3 %	0.8 %	1.0 %	0.6 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1246 ppm	23.2159 ppm	0.9883 ppm	1.0979 ppm	2.2122 ppm	0.1182 ppm	0.7099 ppm
Concentration per Run 1	0.1226 ppm	23.7722 ppm	0.9745 ppm	1.0999 ppm	2.2063 ppm	0.1191 ppm	0.7039 ppm
Concentration per Run 2	0.1253 ppm	23.0568 ppm	0.9929 ppm	1.0854 ppm	2.2280 ppm	0.1173 ppm	0.7128 ppm
Concentration per Run 3	0.1259 ppm	22.8187 ppm	0.9976 ppm	1.1085 ppm	2.2024 ppm	0.1181 ppm	0.7132 ppm
Concentration RSD	1.4 %	2.1 %	1.2 %	1.1 %	0.6 %	0.8 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3397 ppm	99.4588 %	102.9532 %	90.7295 %	104.7820 %	113.0108 %	108.4725 %
Concentration per Run 1	1.3255 ppm	100.4718 %	102.0163 %	90.5067 %	105.1988 %	111.9335 %	108.3303 %
Concentration per Run 2	1.3448 ppm	98.9414 %	104.4663 %	91.0906 %	104.1704 %	114.9427 %	109.2904 %
Concentration per Run 3	1.3487 ppm	98.9633 %	102.3771 %	90.5912 %	104.9768 %	112.1561 %	107.7968 %
Concentration RSD	0.9 %	0.9 %	1.3 %	0.3 %	0.5 %	1.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-4D2 WG1935622
Analysis started at: 6/18/2024 12:44:13 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0461 ppm	179.1411 ppm	0.1798 ppm	0.8940 ppm	2.0020 ppm	0.0570 ppm	30.7017 ppm
Concentration per Run 1	0.0455 ppm	178.5627 ppm	0.1808 ppm	0.8954 ppm	1.9978 ppm	0.0572 ppm	30.7271 ppm
Concentration per Run 2	0.0461 ppm	178.6741 ppm	0.1775 ppm	0.8871 ppm	2.0013 ppm	0.0571 ppm	30.7536 ppm
Concentration per Run 3	0.0468 ppm	180.1864 ppm	0.1810 ppm	0.8995 ppm	2.0069 ppm	0.0567 ppm	30.6244 ppm
Concentration RSD	1.4 %	0.5 %	1.1 %	0.7 %	0.2 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0486 ppm	0.6910 ppm	0.4668 ppm	0.6575 ppm	363.1736 ppm	12.9182 ppm	0.3143 ppm
Concentration per Run 1	0.0483 ppm	0.6894 ppm	0.4659 ppm	0.6536 ppm	363.9793 ppm	12.8901 ppm	0.3139 ppm
Concentration per Run 2	0.0484 ppm	0.6897 ppm	0.4654 ppm	0.6564 ppm	363.8331 ppm	12.8419 ppm	0.3132 ppm
Concentration per Run 3	0.0491 ppm	0.6938 ppm	0.4691 ppm	0.6625 ppm	361.7083 ppm	13.0225 ppm	0.3158 ppm
Concentration RSD	0.9 %	0.3 %	0.4 %	0.7 %	0.3 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	72.0540 ppm	7.7310 ppm	0.9305 ppm	11.6570 ppm	0.8613 ppm	0.7622 ppm	0.4450 ppm
Concentration per Run 1	71.9230 ppm	7.7386 ppm	0.9120 ppm	11.6598 ppm	0.8606 ppm	0.7660 ppm	0.4422 ppm
Concentration per Run 2	71.8957 ppm	7.7254 ppm	0.9305 ppm	11.7057 ppm	0.8608 ppm	0.7590 ppm	0.4436 ppm
Concentration per Run 3	72.3432 ppm	7.7290 ppm	0.9491 ppm	11.6055 ppm	0.8625 ppm	0.7614 ppm	0.4493 ppm
Concentration RSD	0.3 %	0.1 %	2.0 %	0.4 %	0.1 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1189 ppm	25.0990 ppm	0.9608 ppm	1.0842 ppm	2.2464 ppm	0.1150 ppm	0.7070 ppm
Concentration per Run 1	0.1186 ppm	24.9531 ppm	0.9665 ppm	1.0897 ppm	2.1972 ppm	0.1142 ppm	0.7051 ppm
Concentration per Run 2	0.1185 ppm	25.3124 ppm	0.9561 ppm	1.0852 ppm	2.2530 ppm	0.1150 ppm	0.7087 ppm
Concentration per Run 3	0.1197 ppm	25.0314 ppm	0.9597 ppm	1.0777 ppm	2.2891 ppm	0.1157 ppm	0.7071 ppm
Concentration RSD	0.6 %	0.8 %	0.6 %	0.6 %	2.1 %	0.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3851 ppm	99.4767 %	103.3659 %	90.9160 %	106.0015 %	115.0570 %	110.5060 %
Concentration per Run 1	1.3881 ppm	98.9524 %	102.6553 %	91.4113 %	104.9296 %	113.9575 %	110.6918 %
Concentration per Run 2	1.3809 ppm	100.0527 %	102.4134 %	90.8565 %	106.6469 %	114.1166 %	110.7448 %
Concentration per Run 3	1.3862 ppm	99.4250 %	105.0290 %	90.4802 %	106.4281 %	117.0969 %	110.0815 %
Concentration RSD	0.3 %	0.6 %	1.4 %	0.5 %	0.9 %	1.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-5D2 WG1935622
Analysis started at: 6/18/2024 12:48:10 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0444 ppm	149.9307 ppm	0.1629 ppm	0.9099 ppm	1.9055 ppm	0.0527 ppm	27.4783 ppm
Concentration per Run 1	0.0444 ppm	150.0381 ppm	0.1616 ppm	0.9097 ppm	1.9204 ppm	0.0524 ppm	27.3877 ppm
Concentration per Run 2	0.0446 ppm	149.7202 ppm	0.1638 ppm	0.9083 ppm	1.9132 ppm	0.0526 ppm	27.4129 ppm
Concentration per Run 3	0.0442 ppm	150.0340 ppm	0.1632 ppm	0.9117 ppm	1.8828 ppm	0.0530 ppm	27.6342 ppm
Concentration RSD	0.5 %	0.1 %	0.7 %	0.2 %	1.0 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0476 ppm	0.6254 ppm	0.3848 ppm	0.5324 ppm	297.6035 ppm	14.2846 ppm	0.2542 ppm
Concentration per Run 1	0.0479 ppm	0.6235 ppm	0.3824 ppm	0.5315 ppm	298.7088 ppm	14.4803 ppm	0.2568 ppm
Concentration per Run 2	0.0474 ppm	0.6261 ppm	0.3849 ppm	0.5344 ppm	296.4903 ppm	14.2629 ppm	0.2531 ppm
Concentration per Run 3	0.0476 ppm	0.6267 ppm	0.3872 ppm	0.5313 ppm	297.6113 ppm	14.1106 ppm	0.2529 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.3 %	0.4 %	1.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	59.7954 ppm	7.7484 ppm	0.8924 ppm	11.6701 ppm	0.7682 ppm	0.7045 ppm	0.3959 ppm
Concentration per Run 1	59.6292 ppm	7.7372 ppm	0.8734 ppm	11.6274 ppm	0.7630 ppm	0.7048 ppm	0.3870 ppm
Concentration per Run 2	59.8035 ppm	7.7445 ppm	0.8945 ppm	11.6134 ppm	0.7688 ppm	0.7043 ppm	0.3957 ppm
Concentration per Run 3	59.9533 ppm	7.7635 ppm	0.9094 ppm	11.7695 ppm	0.7729 ppm	0.7044 ppm	0.4050 ppm
Concentration RSD	0.3 %	0.2 %	2.0 %	0.7 %	0.6 %	0.0 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1217 ppm	31.6013 ppm	0.9536 ppm	1.0577 ppm	2.5858 ppm	0.1141 ppm	0.6416 ppm
Concentration per Run 1	0.1186 ppm	32.3851 ppm	0.9372 ppm	1.0612 ppm	2.6440 ppm	0.1139 ppm	0.6360 ppm
Concentration per Run 2	0.1234 ppm	31.3315 ppm	0.9560 ppm	1.0545 ppm	2.5606 ppm	0.1144 ppm	0.6429 ppm
Concentration per Run 3	0.1232 ppm	31.0874 ppm	0.9675 ppm	1.0576 ppm	2.5529 ppm	0.1140 ppm	0.6459 ppm
Concentration RSD	2.2 %	2.2 %	1.6 %	0.3 %	2.0 %	0.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1584 ppm	99.9940 %	103.9140 %	92.2330 %	106.3272 %	114.8106 %	109.7956 %
Concentration per Run 1	1.1463 ppm	100.3657 %	104.8570 %	92.3937 %	106.2159 %	116.3913 %	109.3872 %
Concentration per Run 2	1.1595 ppm	100.1578 %	104.7665 %	92.3930 %	107.0536 %	114.5301 %	109.2172 %
Concentration per Run 3	1.1695 ppm	99.4584 %	102.1185 %	91.9123 %	105.7122 %	113.5103 %	110.7824 %
Concentration RSD	1.0 %	0.5 %	1.5 %	0.3 %	0.6 %	1.3 %	0.8 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935622-6D10 WG1935622
Analysis started at: 6/18/2024 12:52:07 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	31.2097 ppm	0.0078 ppm	0.0010 ppm	0.0334 ppm	0.0011 ppm	3.9203 ppm
Concentration per Run 1	-0.0007 ppm	31.0575 ppm	0.0067 ppm	0.0018 ppm	0.0332 ppm	0.0011 ppm	3.9154 ppm
Concentration per Run 2	-0.0004 ppm	31.2555 ppm	0.0084 ppm	0.0004 ppm	0.0334 ppm	0.0011 ppm	3.9206 ppm
Concentration per Run 3	-0.0005 ppm	31.3161 ppm	0.0084 ppm	0.0008 ppm	0.0338 ppm	0.0011 ppm	3.9251 ppm
Concentration RSD	25.3 %	0.4 %	12.6 %	68.2 %	1.0 %	1.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0402 ppm	0.0439 ppm	0.0617 ppm	66.7118 ppm	1.0481 ppm	0.0513 ppm
Concentration per Run 1	0.0001 ppm	0.0403 ppm	0.0437 ppm	0.0621 ppm	66.7041 ppm	1.0256 ppm	0.0518 ppm
Concentration per Run 2	0.0000 ppm	0.0394 ppm	0.0439 ppm	0.0614 ppm	66.7558 ppm	1.0313 ppm	0.0511 ppm
Concentration per Run 3	0.0000 ppm	0.0407 ppm	0.0441 ppm	0.0616 ppm	66.6755 ppm	1.0873 ppm	0.0509 ppm
Concentration RSD	105.2 %	1.7 %	0.4 %	0.6 %	0.1 %	3.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.0898 ppm	1.5860 ppm	-0.0005 ppm	0.2877 ppm	0.0711 ppm	0.0401 ppm	0.0045 ppm
Concentration per Run 1	11.1814 ppm	1.5866 ppm	0.0002 ppm	0.2839 ppm	0.0716 ppm	0.0400 ppm	0.0021 ppm
Concentration per Run 2	11.0613 ppm	1.5850 ppm	-0.0008 ppm	0.2814 ppm	0.0706 ppm	0.0405 ppm	0.0038 ppm
Concentration per Run 3	11.0268 ppm	1.5863 ppm	-0.0007 ppm	0.2977 ppm	0.0710 ppm	0.0398 ppm	0.0076 ppm
Concentration RSD	0.7 %	0.1 %	117.8 %	3.0 %	0.7 %	0.9 %	62.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	6.0638 ppm	0.0026 ppm	0.0239 ppm	0.3303 ppm	-0.0004 ppm	0.0374 ppm
Concentration per Run 1	0.0002 ppm	6.0888 ppm	0.0028 ppm	0.0240 ppm	0.3037 ppm	0.0012 ppm	0.0373 ppm
Concentration per Run 2	0.0035 ppm	6.2514 ppm	0.0018 ppm	0.0239 ppm	0.3455 ppm	-0.0010 ppm	0.0374 ppm
Concentration per Run 3	-0.0020 ppm	5.8514 ppm	0.0030 ppm	0.0239 ppm	0.3417 ppm	-0.0013 ppm	0.0375 ppm
Concentration RSD	504.4 %	3.3 %	26.3 %	0.2 %	7.0 %	366.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1548 ppm	98.0954 %	100.9169 %	98.6235 %	98.2379 %	103.2519 %	102.4793 %
Concentration per Run 1	0.1552 ppm	97.5396 %	100.0242 %	98.5080 %	98.1584 %	102.3002 %	102.1840 %
Concentration per Run 2	0.1536 ppm	98.3809 %	101.7962 %	98.5958 %	98.3181 %	104.2576 %	102.6685 %
Concentration per Run 3	0.1555 ppm	98.3658 %	100.9302 %	98.7668 %	98.2372 %	103.1980 %	102.5853 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.1 %	0.1 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 12:56:04 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5180 ppm	0.4945 ppm	0.4973 ppm	0.5131 ppm	0.5119 ppm	0.5192 ppm	0.5053 ppm
Concentration per Run 1	0.5175 ppm	0.4961 ppm	0.4954 ppm	0.5134 ppm	0.5124 ppm	0.5176 ppm	0.5071 ppm
Concentration per Run 2	0.5182 ppm	0.4921 ppm	0.4983 ppm	0.5109 ppm	0.5114 ppm	0.5216 ppm	0.5044 ppm
Concentration per Run 3	0.5182 ppm	0.4953 ppm	0.4981 ppm	0.5150 ppm	0.5120 ppm	0.5184 ppm	0.5044 ppm
Recovery Percentage 1	103.596 %	98.898 %	99.453 %	102.614 %	102.388 %	103.839 %	101.063 %
Concentration RSD	0.1 %	0.4 %	0.3 %	0.4 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5240 ppm	0.5274 ppm	0.5181 ppm	0.5044 ppm	0.5214 ppm	5.0176 ppm	0.4679 ppm
Concentration per Run 1	0.5237 ppm	0.5287 ppm	0.5188 ppm	0.5050 ppm	0.5214 ppm	5.0177 ppm	0.4729 ppm
Concentration per Run 2	0.5238 ppm	0.5264 ppm	0.5173 ppm	0.5030 ppm	0.5233 ppm	5.0023 ppm	0.4623 ppm
Concentration per Run 3	0.5244 ppm	0.5270 ppm	0.5181 ppm	0.5053 ppm	0.5196 ppm	5.0329 ppm	0.4685 ppm
Recovery Percentage 1	104.790 %	105.470 %	103.614 %	100.880 %	104.289 %	100.353 %	93.578 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.2 %	0.4 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5130 ppm	0.4887 ppm	0.5160 ppm	10.8145 ppm	0.5339 ppm	0.5104 ppm	0.5109 ppm
Concentration per Run 1	0.5112 ppm	0.4883 ppm	0.5074 ppm	10.8277 ppm	0.5356 ppm	0.5100 ppm	0.5069 ppm
Concentration per Run 2	0.5155 ppm	0.4881 ppm	0.5158 ppm	10.8196 ppm	0.5316 ppm	0.5097 ppm	0.5085 ppm
Concentration per Run 3	0.5122 ppm	0.4896 ppm	0.5247 ppm	10.7962 ppm	0.5345 ppm	0.5114 ppm	0.5174 ppm
Recovery Percentage 1	102.597 %	97.736 %	103.194 %	108.145 %	106.777 %	102.075 %	102.187 %
Concentration RSD	0.4 %	0.2 %	1.7 %	0.2 %	0.4 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5140 ppm	5.5090 ppm	0.5463 ppm	0.5204 ppm	0.5203 ppm	0.5007 ppm	0.5181 ppm
Concentration per Run 1	0.5140 ppm	5.4980 ppm	0.5464 ppm	0.5207 ppm	0.5211 ppm	0.4992 ppm	0.5186 ppm
Concentration per Run 2	0.5123 ppm	5.5425 ppm	0.5439 ppm	0.5209 ppm	0.5201 ppm	0.5028 ppm	0.5161 ppm
Concentration per Run 3	0.5156 ppm	5.4866 ppm	0.5486 ppm	0.5196 ppm	0.5197 ppm	0.5000 ppm	0.5196 ppm
Recovery Percentage 1	102.794 %	104.934 %	109.258 %	104.082 %	104.055 %	100.134 %	103.622 %
Concentration RSD	0.3 %	0.5 %	0.4 %	0.1 %	0.1 %	0.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5375 ppm	100.0553 %	107.9643 %	99.9370 %	98.0604 %	105.3938 %	99.5688 %
Concentration per Run 1	0.5388 ppm	99.6658 %	108.1128 %	99.9804 %	97.6752 %	105.5387 %	99.7408 %
Concentration per Run 2	0.5361 ppm	100.1685 %	108.0539 %	100.2782 %	98.1611 %	105.5813 %	99.8426 %
Concentration per Run 3	0.5378 ppm	100.3317 %	107.7261 %	99.5524 %	98.3450 %	105.0613 %	99.1232 %
Recovery Percentage 1	107.510 %						
Concentration RSD	0.3 %	0.3 %	0.2 %	0.4 %	0.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 1:00:02 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0191 ppm	-0.0006 ppm	0.0013 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0230 ppm	0.0004 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 2	-0.0007 ppm	-0.0170 ppm	-0.0018 ppm	0.0031 ppm	-0.0005 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	-0.0173 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-6.285 %	-19.097 %	-21.448 %	4.445 %	-2.912 %	0.905 %	-0.141 %
Concentration RSD	74.7 %	17.6 %	172.5 %	122.6 %	75.8 %	91.9 %	1,018.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0091 ppm	-0.0296 ppm	-0.0036 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm	0.0098 ppm	-0.0202 ppm	-0.0047 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0079 ppm	-0.0495 ppm	-0.0037 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0096 ppm	-0.0193 ppm	-0.0023 ppm
Recovery Percentage 1	1.057 %	1.452 %	1.595 %	0.766 %	18.130 %	-1.186 %	-35.684 %
Concentration RSD	201.7 %	73.7 %	260.7 %	236.2 %	11.4 %	58.0 %	33.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	0.0002 ppm	-0.0015 ppm	0.0339 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0018 ppm	0.0002 ppm	-0.0010 ppm	0.0354 ppm	0.0005 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 2	0.0012 ppm	0.0003 ppm	-0.0014 ppm	0.0308 ppm	0.0006 ppm	-0.0003 ppm	-0.0014 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	-0.0019 ppm	0.0354 ppm	0.0002 ppm	0.0006 ppm	-0.0012 ppm
Recovery Percentage 1	1.232 %	2.245 %	-2.920 %	1.693 %	1.749 %	0.198 %	-0.159 %
Concentration RSD	41.9 %	37.0 %	31.4 %	7.7 %	49.9 %	2,323.4 %	2,690.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.0427 ppm	0.0012 ppm	0.0001 ppm	0.0024 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 1	0.0034 ppm	0.0730 ppm	0.0005 ppm	0.0000 ppm	0.0012 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0023 ppm	0.0311 ppm	0.0022 ppm	0.0001 ppm	0.0054 ppm	-0.0013 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0239 ppm	0.0009 ppm	0.0000 ppm	0.0006 ppm	-0.0008 ppm	-0.0005 ppm
Recovery Percentage 1	19.190 %	8.536 %	2.359 %	0.503 %	24.115 %	-4.460 %	-3.338 %
Concentration RSD	85.5 %	62.2 %	77.6 %	146.7 %	107.4 %	40.6 %	83.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	93.5432 %	102.8395 %	96.5168 %	98.3737 %	104.4394 %	100.4703 %
Concentration per Run 1	0.0010 ppm	92.8801 %	101.8157 %	96.0065 %	98.4771 %	103.8531 %	100.4144 %
Concentration per Run 2	0.0009 ppm	93.4153 %	103.6186 %	96.6253 %	98.1348 %	104.8308 %	100.2866 %
Concentration per Run 3	0.0005 ppm	94.3342 %	103.0842 %	96.9187 %	98.5091 %	104.6344 %	100.7100 %
Recovery Percentage 1	16.120 %						
Concentration RSD	31.9 %	0.8 %	0.9 %	0.5 %	0.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2434070-01D2 WG1935622
Analysis started at: 6/18/2024 1:06:39 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0021 ppm	116.8226 ppm	0.0239 ppm	0.0185 ppm	1.2699 ppm	0.0052 ppm	68.6536 ppm
Concentration per Run 1	-0.0024 ppm	116.1587 ppm	0.0249 ppm	0.0194 ppm	1.2576 ppm	0.0052 ppm	68.3517 ppm
Concentration per Run 2	-0.0021 ppm	116.9946 ppm	0.0232 ppm	0.0167 ppm	1.2743 ppm	0.0053 ppm	68.6198 ppm
Concentration per Run 3	-0.0019 ppm	117.3145 ppm	0.0237 ppm	0.0195 ppm	1.2777 ppm	0.0051 ppm	68.9892 ppm
Concentration RSD	10.6 %	0.5 %	3.8 %	8.5 %	0.8 %	1.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0782 ppm	0.2556 ppm	0.2972 ppm	210.5455 ppm	39.0588 ppm	0.1190 ppm
Concentration per Run 1	0.0006 ppm	0.0774 ppm	0.2545 ppm	0.2933 ppm	209.4163 ppm	38.8602 ppm	0.1195 ppm
Concentration per Run 2	0.0006 ppm	0.0783 ppm	0.2550 ppm	0.2981 ppm	210.4175 ppm	38.9792 ppm	0.1194 ppm
Concentration per Run 3	0.0007 ppm	0.0789 ppm	0.2574 ppm	0.3003 ppm	211.8028 ppm	39.3371 ppm	0.1180 ppm
Concentration RSD	12.9 %	1.0 %	0.6 %	1.2 %	0.6 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.5206 ppm	2.9676 ppm	0.0036 ppm	2.2908 ppm	0.1881 ppm	0.6009 ppm	0.0040 ppm
Concentration per Run 1	61.2118 ppm	2.9650 ppm	0.0037 ppm	2.2767 ppm	0.1873 ppm	0.5984 ppm	0.0035 ppm
Concentration per Run 2	61.5047 ppm	2.9637 ppm	0.0038 ppm	2.2919 ppm	0.1875 ppm	0.6016 ppm	0.0019 ppm
Concentration per Run 3	61.8454 ppm	2.9740 ppm	0.0033 ppm	2.3038 ppm	0.1896 ppm	0.6025 ppm	0.0067 ppm
Concentration RSD	0.5 %	0.2 %	6.3 %	0.6 %	0.7 %	0.4 %	61.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	9.1864 ppm	0.0150 ppm	0.2350 ppm	10.3067 ppm	0.0052 ppm	0.3510 ppm
Concentration per Run 1	0.0002 ppm	9.3454 ppm	0.0148 ppm	0.2338 ppm	10.2400 ppm	0.0065 ppm	0.3494 ppm
Concentration per Run 2	-0.0015 ppm	8.9377 ppm	0.0143 ppm	0.2351 ppm	10.3132 ppm	0.0045 ppm	0.3511 ppm
Concentration per Run 3	-0.0018 ppm	9.2759 ppm	0.0158 ppm	0.2362 ppm	10.3668 ppm	0.0045 ppm	0.3524 ppm
Concentration RSD	100.4 %	2.4 %	5.2 %	0.5 %	0.6 %	22.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7041 ppm	111.1825 %	108.9537 %	92.7084 %	131.5983 %	137.7931 %	135.7437 %
Concentration per Run 1	0.7006 ppm	111.4035 %	108.9301 %	93.2048 %	130.3934 %	136.7407 %	135.3832 %
Concentration per Run 2	0.7039 ppm	111.1774 %	109.3334 %	92.8660 %	131.4624 %	138.5769 %	136.3424 %
Concentration per Run 3	0.7077 ppm	110.9667 %	108.5976 %	92.0545 %	132.9390 %	138.0615 %	135.5054 %
Concentration RSD	0.5 %	0.2 %	0.3 %	0.6 %	1.0 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2434070-02D2 WG1935622
Analysis started at: 6/18/2024 1:10:54 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0022 ppm	142.9362 ppm	0.0436 ppm	0.0143 ppm	1.4230 ppm	0.0050 ppm	45.5683 ppm
Concentration per Run 1	-0.0023 ppm	142.8751 ppm	0.0397 ppm	0.0147 ppm	1.4308 ppm	0.0049 ppm	45.5944 ppm
Concentration per Run 2	-0.0026 ppm	142.5641 ppm	0.0456 ppm	0.0144 ppm	1.4155 ppm	0.0050 ppm	45.4959 ppm
Concentration per Run 3	-0.0019 ppm	143.3695 ppm	0.0455 ppm	0.0140 ppm	1.4229 ppm	0.0051 ppm	45.6147 ppm
Concentration RSD	15.9 %	0.3 %	7.8 %	2.5 %	0.5 %	1.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0920 ppm	0.3029 ppm	0.3003 ppm	210.3168 ppm	38.2685 ppm	0.1186 ppm
Concentration per Run 1	0.0010 ppm	0.0925 ppm	0.3027 ppm	0.3017 ppm	211.4623 ppm	38.1345 ppm	0.1200 ppm
Concentration per Run 2	0.0011 ppm	0.0916 ppm	0.3033 ppm	0.2996 ppm	209.2425 ppm	38.2289 ppm	0.1184 ppm
Concentration per Run 3	0.0011 ppm	0.0919 ppm	0.3028 ppm	0.2997 ppm	210.2457 ppm	38.4422 ppm	0.1172 ppm
Concentration RSD	5.6 %	0.5 %	0.1 %	0.4 %	0.5 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	71.6371 ppm	3.5386 ppm	0.0017 ppm	1.9151 ppm	0.2221 ppm	1.3789 ppm	0.0039 ppm
Concentration per Run 1	71.5913 ppm	3.5511 ppm	0.0016 ppm	1.9183 ppm	0.2219 ppm	1.3768 ppm	0.0015 ppm
Concentration per Run 2	71.6635 ppm	3.5266 ppm	0.0014 ppm	1.9201 ppm	0.2232 ppm	1.3763 ppm	0.0059 ppm
Concentration per Run 3	71.6566 ppm	3.5382 ppm	0.0019 ppm	1.9067 ppm	0.2213 ppm	1.3837 ppm	0.0044 ppm
Concentration RSD	0.1 %	0.3 %	15.3 %	0.4 %	0.4 %	0.3 %	56.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	14.8358 ppm	0.0210 ppm	0.1768 ppm	11.7949 ppm	0.0055 ppm	0.4412 ppm
Concentration per Run 1	0.0048 ppm	15.4876 ppm	0.0202 ppm	0.1777 ppm	11.7715 ppm	0.0059 ppm	0.4407 ppm
Concentration per Run 2	0.0007 ppm	14.7837 ppm	0.0212 ppm	0.1758 ppm	11.8318 ppm	0.0042 ppm	0.4439 ppm
Concentration per Run 3	0.0034 ppm	14.2362 ppm	0.0216 ppm	0.1769 ppm	11.7815 ppm	0.0065 ppm	0.4390 ppm
Concentration RSD	69.4 %	4.2 %	3.3 %	0.6 %	0.3 %	21.2 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1564 ppm	105.3868 %	109.1085 %	89.8974 %	123.5196 %	133.2506 %	128.9964 %
Concentration per Run 1	1.1550 ppm	105.3745 %	109.2269 %	89.8525 %	123.7638 %	133.7137 %	128.8924 %
Concentration per Run 2	1.1618 ppm	104.7589 %	109.1876 %	90.0074 %	122.6643 %	132.9653 %	129.1865 %
Concentration per Run 3	1.1524 ppm	106.0270 %	108.9109 %	89.8323 %	124.1307 %	133.0729 %	128.9103 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.1 %	0.6 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2434083-01D2 WG1935622
Analysis started at: 6/18/2024 1:14:51 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0015 ppm	73.2386 ppm	0.0403 ppm	0.0156 ppm	0.3012 ppm	0.0044 ppm	31.3513 ppm
Concentration per Run 1	-0.0013 ppm	73.2600 ppm	0.0400 ppm	0.0155 ppm	0.3036 ppm	0.0044 ppm	31.4195 ppm
Concentration per Run 2	-0.0016 ppm	73.1561 ppm	0.0385 ppm	0.0156 ppm	0.2993 ppm	0.0044 ppm	31.3363 ppm
Concentration per Run 3	-0.0015 ppm	73.2997 ppm	0.0424 ppm	0.0158 ppm	0.3006 ppm	0.0043 ppm	31.2981 ppm
Concentration RSD	8.7 %	0.1 %	4.9 %	1.0 %	0.7 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0747 ppm	0.1124 ppm	0.1740 ppm	166.5639 ppm	6.2874 ppm	0.0859 ppm
Concentration per Run 1	0.0005 ppm	0.0750 ppm	0.1126 ppm	0.1737 ppm	167.5322 ppm	6.3486 ppm	0.0878 ppm
Concentration per Run 2	0.0006 ppm	0.0750 ppm	0.1118 ppm	0.1735 ppm	166.2232 ppm	6.2553 ppm	0.0865 ppm
Concentration per Run 3	0.0007 ppm	0.0742 ppm	0.1127 ppm	0.1747 ppm	165.9364 ppm	6.2583 ppm	0.0834 ppm
Concentration RSD	17.8 %	0.6 %	0.4 %	0.4 %	0.5 %	0.8 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.4809 ppm	3.4350 ppm	0.0006 ppm	6.0694 ppm	0.1591 ppm	0.1804 ppm	0.0004 ppm
Concentration per Run 1	30.5501 ppm	3.4412 ppm	0.0004 ppm	6.1119 ppm	0.1594 ppm	0.1802 ppm	-0.0005 ppm
Concentration per Run 2	30.4635 ppm	3.4306 ppm	0.0004 ppm	6.0514 ppm	0.1593 ppm	0.1793 ppm	0.0014 ppm
Concentration per Run 3	30.4291 ppm	3.4333 ppm	0.0010 ppm	6.0450 ppm	0.1586 ppm	0.1816 ppm	0.0004 ppm
Concentration RSD	0.2 %	0.2 %	61.0 %	0.6 %	0.3 %	0.7 %	224.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	15.1725 ppm	0.0073 ppm	0.0972 ppm	2.1734 ppm	0.0008 ppm	0.2372 ppm
Concentration per Run 1	0.0021 ppm	15.6138 ppm	0.0073 ppm	0.0981 ppm	2.1818 ppm	0.0001 ppm	0.2382 ppm
Concentration per Run 2	0.0003 ppm	15.0115 ppm	0.0071 ppm	0.0969 ppm	2.1769 ppm	0.0005 ppm	0.2372 ppm
Concentration per Run 3	0.0041 ppm	14.8923 ppm	0.0075 ppm	0.0965 ppm	2.1614 ppm	0.0017 ppm	0.2361 ppm
Concentration RSD	89.1 %	2.5 %	2.8 %	0.8 %	0.5 %	110.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4553 ppm	105.0812 %	109.4943 %	100.1813 %	133.5322 %	144.1288 %	139.2112 %
Concentration per Run 1	0.4564 ppm	104.6170 %	108.5905 %	99.9792 %	133.0215 %	143.9642 %	139.0344 %
Concentration per Run 2	0.4554 ppm	105.6613 %	109.2306 %	100.3614 %	134.0051 %	142.9765 %	139.1358 %
Concentration per Run 3	0.4542 ppm	104.9652 %	110.6617 %	100.2033 %	133.5700 %	145.4457 %	139.4634 %
Concentration RSD	0.2 %	0.5 %	1.0 %	0.2 %	0.4 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-17D2 WG1935259
Analysis started at: 6/18/2024 1:18:49 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	62.3888 ppm	0.0340 ppm	0.0096 ppm	0.1764 ppm	0.0047 ppm	19.5001 ppm
Concentration per Run 1	-0.0003 ppm	62.3236 ppm	0.0356 ppm	0.0092 ppm	0.1762 ppm	0.0047 ppm	19.4907 ppm
Concentration per Run 2	-0.0007 ppm	62.2469 ppm	0.0318 ppm	0.0108 ppm	0.1756 ppm	0.0046 ppm	19.4993 ppm
Concentration per Run 3	-0.0004 ppm	62.5960 ppm	0.0345 ppm	0.0089 ppm	0.1774 ppm	0.0046 ppm	19.5104 ppm
Concentration RSD	42.3 %	0.3 %	5.7 %	10.9 %	0.5 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0541 ppm	0.1098 ppm	0.1158 ppm	122.7767 ppm	4.0385 ppm	0.1409 ppm
Concentration per Run 1	0.0012 ppm	0.0538 ppm	0.1102 ppm	0.1159 ppm	122.9033 ppm	4.0513 ppm	0.1435 ppm
Concentration per Run 2	0.0014 ppm	0.0538 ppm	0.1097 ppm	0.1153 ppm	122.3858 ppm	4.0058 ppm	0.1392 ppm
Concentration per Run 3	0.0012 ppm	0.0548 ppm	0.1096 ppm	0.1162 ppm	123.0410 ppm	4.0585 ppm	0.1400 ppm
Concentration RSD	8.9 %	1.1 %	0.3 %	0.4 %	0.3 %	0.7 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.4354 ppm	2.7755 ppm	0.0000 ppm	1.2542 ppm	0.1065 ppm	0.1402 ppm	0.0017 ppm
Concentration per Run 1	32.5367 ppm	2.7724 ppm	0.0000 ppm	1.2525 ppm	0.1054 ppm	0.1411 ppm	0.0038 ppm
Concentration per Run 2	32.3442 ppm	2.7710 ppm	-0.0005 ppm	1.2615 ppm	0.1071 ppm	0.1401 ppm	0.0004 ppm
Concentration per Run 3	32.4253 ppm	2.7832 ppm	0.0004 ppm	1.2486 ppm	0.1069 ppm	0.1395 ppm	0.0011 ppm
Concentration RSD	0.3 %	0.2 %	1,617.7 %	0.5 %	0.9 %	0.6 %	102.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.3612 ppm	0.0081 ppm	0.1101 ppm	2.3405 ppm	0.0004 ppm	0.1196 ppm
Concentration per Run 1	-0.0001 ppm	4.4175 ppm	0.0082 ppm	0.1103 ppm	2.3473 ppm	0.0000 ppm	0.1196 ppm
Concentration per Run 2	0.0007 ppm	4.3382 ppm	0.0079 ppm	0.1100 ppm	2.3407 ppm	0.0001 ppm	0.1198 ppm
Concentration per Run 3	-0.0001 ppm	4.3277 ppm	0.0081 ppm	0.1101 ppm	2.3333 ppm	0.0012 ppm	0.1192 ppm
Concentration RSD	275.2 %	1.1 %	2.2 %	0.1 %	0.3 %	152.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4448 ppm	101.3995 %	112.0291 %	97.0723 %	113.5347 %	125.1237 %	115.3929 %
Concentration per Run 1	0.4455 ppm	100.9573 %	112.8312 %	96.7112 %	112.9990 %	126.0308 %	115.0422 %
Concentration per Run 2	0.4464 ppm	101.9523 %	111.4509 %	97.3781 %	114.2712 %	123.9816 %	115.7119 %
Concentration per Run 3	0.4426 ppm	101.2889 %	111.8052 %	97.1275 %	113.3340 %	125.3587 %	115.4247 %
Concentration RSD	0.4 %	0.5 %	0.6 %	0.3 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-18D2 WG1935259
Analysis started at: 6/18/2024 1:22:46 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	62.6352 ppm	0.0387 ppm	0.0115 ppm	0.1709 ppm	0.0046 ppm	23.4045 ppm
Concentration per Run 1	-0.0005 ppm	63.1955 ppm	0.0393 ppm	0.0119 ppm	0.1740 ppm	0.0046 ppm	23.2711 ppm
Concentration per Run 2	0.0000 ppm	63.1640 ppm	0.0387 ppm	0.0123 ppm	0.1726 ppm	0.0045 ppm	23.3341 ppm
Concentration per Run 3	-0.0006 ppm	61.5460 ppm	0.0383 ppm	0.0102 ppm	0.1661 ppm	0.0048 ppm	23.6083 ppm
Concentration RSD	92.1 %	1.5 %	1.3 %	9.9 %	2.5 %	3.9 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0552 ppm	0.1071 ppm	0.1352 ppm	133.5889 ppm	3.6367 ppm	0.1247 ppm
Concentration per Run 1	0.0008 ppm	0.0548 ppm	0.1068 ppm	0.1361 ppm	134.1171 ppm	3.7387 ppm	0.1313 ppm
Concentration per Run 2	0.0010 ppm	0.0550 ppm	0.1074 ppm	0.1352 ppm	133.6363 ppm	3.7032 ppm	0.1277 ppm
Concentration per Run 3	0.0010 ppm	0.0557 ppm	0.1071 ppm	0.1344 ppm	133.0133 ppm	3.4684 ppm	0.1150 ppm
Concentration RSD	10.4 %	0.9 %	0.3 %	0.6 %	0.4 %	4.0 %	6.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.4672 ppm	2.6209 ppm	-0.0004 ppm	1.0711 ppm	0.1140 ppm	0.1399 ppm	-0.0007 ppm
Concentration per Run 1	30.4601 ppm	2.6210 ppm	-0.0008 ppm	1.0509 ppm	0.1142 ppm	0.1388 ppm	0.0028 ppm
Concentration per Run 2	30.4819 ppm	2.6293 ppm	0.0002 ppm	1.0599 ppm	0.1135 ppm	0.1402 ppm	-0.0034 ppm
Concentration per Run 3	30.4594 ppm	2.6123 ppm	-0.0008 ppm	1.1025 ppm	0.1144 ppm	0.1405 ppm	-0.0015 ppm
Concentration RSD	0.0 %	0.3 %	133.6 %	2.6 %	0.4 %	0.7 %	442.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	4.6643 ppm	0.0091 ppm	0.1205 ppm	2.5144 ppm	0.0014 ppm	0.1327 ppm
Concentration per Run 1	0.0001 ppm	4.6472 ppm	0.0082 ppm	0.1198 ppm	2.5132 ppm	0.0024 ppm	0.1327 ppm
Concentration per Run 2	-0.0012 ppm	4.6850 ppm	0.0097 ppm	0.1190 ppm	2.5142 ppm	0.0011 ppm	0.1329 ppm
Concentration per Run 3	0.0028 ppm	4.6606 ppm	0.0093 ppm	0.1228 ppm	2.5159 ppm	0.0006 ppm	0.1326 ppm
Concentration RSD	350.4 %	0.4 %	8.4 %	1.7 %	0.1 %	67.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4184 ppm	101.7744 %	109.6180 %	96.9011 %	116.5708 %	126.8687 %	118.6081 %
Concentration per Run 1	0.4179 ppm	102.1037 %	112.2354 %	96.9557 %	117.0117 %	129.4948 %	118.9016 %
Concentration per Run 2	0.4185 ppm	101.9072 %	110.2409 %	96.6721 %	116.5758 %	126.9954 %	118.3557 %
Concentration per Run 3	0.4189 ppm	101.3122 %	106.3776 %	97.0755 %	116.1249 %	124.1159 %	118.5671 %
Concentration RSD	0.1 %	0.4 %	2.7 %	0.2 %	0.4 %	2.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-19D2 WG1935259
Analysis started at: 6/18/2024 1:26:44 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	69.2826 ppm	0.0482 ppm	0.0078 ppm	0.2022 ppm	0.0057 ppm	13.3818 ppm
Concentration per Run 1	0.0001 ppm	69.2570 ppm	0.0482 ppm	0.0079 ppm	0.2018 ppm	0.0057 ppm	13.3977 ppm
Concentration per Run 2	0.0001 ppm	69.2863 ppm	0.0474 ppm	0.0059 ppm	0.2025 ppm	0.0057 ppm	13.3459 ppm
Concentration per Run 3	0.0000 ppm	69.3044 ppm	0.0490 ppm	0.0096 ppm	0.2022 ppm	0.0057 ppm	13.4017 ppm
Concentration RSD	61.8 %	0.0 %	1.7 %	24.3 %	0.2 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0619 ppm	0.1102 ppm	0.1724 ppm	129.8716 ppm	3.8654 ppm	0.1502 ppm
Concentration per Run 1	0.0019 ppm	0.0625 ppm	0.1106 ppm	0.1731 ppm	129.6090 ppm	3.8838 ppm	0.1535 ppm
Concentration per Run 2	0.0019 ppm	0.0620 ppm	0.1100 ppm	0.1723 ppm	129.7588 ppm	3.8627 ppm	0.1493 ppm
Concentration per Run 3	0.0018 ppm	0.0612 ppm	0.1100 ppm	0.1718 ppm	130.2471 ppm	3.8497 ppm	0.1477 ppm
Concentration RSD	4.6 %	1.1 %	0.3 %	0.4 %	0.3 %	0.4 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.8982 ppm	2.9917 ppm	-0.0003 ppm	0.7381 ppm	0.1106 ppm	0.1634 ppm	0.0034 ppm
Concentration per Run 1	27.9924 ppm	2.9920 ppm	-0.0002 ppm	0.7358 ppm	0.1119 ppm	0.1624 ppm	0.0033 ppm
Concentration per Run 2	27.9520 ppm	2.9910 ppm	-0.0006 ppm	0.7316 ppm	0.1106 ppm	0.1641 ppm	0.0059 ppm
Concentration per Run 3	27.7503 ppm	2.9921 ppm	-0.0001 ppm	0.7471 ppm	0.1091 ppm	0.1635 ppm	0.0010 ppm
Concentration RSD	0.5 %	0.0 %	98.7 %	1.1 %	1.3 %	0.5 %	71.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	5.3839 ppm	0.0092 ppm	0.0855 ppm	2.6393 ppm	0.0006 ppm	0.1327 ppm
Concentration per Run 1	0.0008 ppm	5.3979 ppm	0.0092 ppm	0.0852 ppm	2.6445 ppm	-0.0013 ppm	0.1332 ppm
Concentration per Run 2	0.0011 ppm	5.3808 ppm	0.0094 ppm	0.0854 ppm	2.6346 ppm	0.0023 ppm	0.1326 ppm
Concentration per Run 3	0.0034 ppm	5.3730 ppm	0.0092 ppm	0.0860 ppm	2.6388 ppm	0.0007 ppm	0.1324 ppm
Concentration RSD	81.6 %	0.2 %	1.2 %	0.5 %	0.2 %	298.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5009 ppm	102.5061 %	112.6273 %	97.2847 %	118.1497 %	130.6704 %	119.6822 %
Concentration per Run 1	0.5026 ppm	102.1026 %	112.4751 %	96.8005 %	117.7654 %	130.7897 %	119.0378 %
Concentration per Run 2	0.5017 ppm	102.2771 %	112.8789 %	97.3404 %	117.7327 %	130.6780 %	119.7710 %
Concentration per Run 3	0.4983 ppm	103.1386 %	112.5279 %	97.7133 %	118.9509 %	130.5435 %	120.2379 %
Concentration RSD	0.5 %	0.5 %	0.2 %	0.5 %	0.6 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432584-20D2 WG1935259
Analysis started at: 6/18/2024 1:30:43 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	35.1136 ppm	0.0511 ppm	0.0169 ppm	0.1314 ppm	0.0036 ppm	8.9779 ppm
Concentration per Run 1	-0.0002 ppm	35.0903 ppm	0.0515 ppm	0.0178 ppm	0.1312 ppm	0.0036 ppm	8.9727 ppm
Concentration per Run 2	-0.0003 ppm	35.1556 ppm	0.0522 ppm	0.0161 ppm	0.1313 ppm	0.0036 ppm	9.0022 ppm
Concentration per Run 3	-0.0002 ppm	35.0947 ppm	0.0495 ppm	0.0168 ppm	0.1315 ppm	0.0036 ppm	8.9589 ppm
Concentration RSD	32.3 %	0.1 %	2.8 %	5.3 %	0.1 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0321 ppm	0.0688 ppm	0.1114 ppm	105.5225 ppm	3.3293 ppm	0.0592 ppm
Concentration per Run 1	0.0015 ppm	0.0318 ppm	0.0696 ppm	0.1115 ppm	105.8235 ppm	3.3746 ppm	0.0607 ppm
Concentration per Run 2	0.0017 ppm	0.0324 ppm	0.0683 ppm	0.1115 ppm	105.6542 ppm	3.3300 ppm	0.0587 ppm
Concentration per Run 3	0.0017 ppm	0.0320 ppm	0.0685 ppm	0.1113 ppm	105.0899 ppm	3.2834 ppm	0.0582 ppm
Concentration RSD	6.4 %	0.9 %	1.0 %	0.1 %	0.4 %	1.4 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.2299 ppm	1.6054 ppm	-0.0003 ppm	0.4004 ppm	0.0585 ppm	0.2053 ppm	0.0025 ppm
Concentration per Run 1	14.2637 ppm	1.6037 ppm	-0.0002 ppm	0.4005 ppm	0.0579 ppm	0.2035 ppm	0.0010 ppm
Concentration per Run 2	14.2422 ppm	1.6069 ppm	-0.0004 ppm	0.3985 ppm	0.0589 ppm	0.2079 ppm	0.0023 ppm
Concentration per Run 3	14.1840 ppm	1.6055 ppm	-0.0003 ppm	0.4023 ppm	0.0588 ppm	0.2046 ppm	0.0043 ppm
Concentration RSD	0.3 %	0.1 %	38.4 %	0.5 %	0.9 %	1.1 %	66.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.2955 ppm	0.0179 ppm	0.0603 ppm	1.5518 ppm	0.0010 ppm	0.1505 ppm
Concentration per Run 1	0.0012 ppm	4.2830 ppm	0.0185 ppm	0.0604 ppm	1.5602 ppm	0.0012 ppm	0.1505 ppm
Concentration per Run 2	-0.0007 ppm	4.3102 ppm	0.0171 ppm	0.0602 ppm	1.5475 ppm	0.0006 ppm	0.1511 ppm
Concentration per Run 3	0.0001 ppm	4.2932 ppm	0.0182 ppm	0.0603 ppm	1.5478 ppm	0.0013 ppm	0.1500 ppm
Concentration RSD	453.1 %	0.3 %	4.1 %	0.2 %	0.5 %	34.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4779 ppm	101.9012 %	112.7801 %	98.4774 %	116.0107 %	128.3941 %	117.2410 %
Concentration per Run 1	0.4784 ppm	101.8735 %	113.8501 %	98.7987 %	116.0297 %	129.9248 %	117.5856 %
Concentration per Run 2	0.4779 ppm	101.5949 %	111.6807 %	98.0356 %	115.5143 %	126.9201 %	116.9291 %
Concentration per Run 3	0.4773 ppm	102.2351 %	112.8094 %	98.5979 %	116.4881 %	128.3373 %	117.2082 %
Concentration RSD	0.1 %	0.3 %	1.0 %	0.4 %	0.4 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 1:34:42 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5162 ppm	0.4948 ppm	0.4961 ppm	0.5118 ppm	0.5112 ppm	0.5154 ppm	0.4997 ppm
Concentration per Run 1	0.5152 ppm	0.4889 ppm	0.4937 ppm	0.5116 ppm	0.5112 ppm	0.5153 ppm	0.4968 ppm
Concentration per Run 2	0.5161 ppm	0.4901 ppm	0.4961 ppm	0.5096 ppm	0.5115 ppm	0.5162 ppm	0.5009 ppm
Concentration per Run 3	0.5173 ppm	0.5052 ppm	0.4986 ppm	0.5143 ppm	0.5108 ppm	0.5149 ppm	0.5015 ppm
Recovery Percentage 1	103.236 %	98.952 %	99.221 %	102.368 %	102.231 %	103.089 %	99.946 %
Concentration RSD	0.2 %	1.8 %	0.5 %	0.5 %	0.1 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5211 ppm	0.5259 ppm	0.5139 ppm	0.5016 ppm	0.5048 ppm	5.0378 ppm	0.4737 ppm
Concentration per Run 1	0.5197 ppm	0.5256 ppm	0.5129 ppm	0.5009 ppm	0.5042 ppm	5.0875 ppm	0.4774 ppm
Concentration per Run 2	0.5214 ppm	0.5255 ppm	0.5128 ppm	0.5009 ppm	0.5061 ppm	5.0068 ppm	0.4745 ppm
Concentration per Run 3	0.5222 ppm	0.5266 ppm	0.5160 ppm	0.5029 ppm	0.5040 ppm	5.0190 ppm	0.4691 ppm
Recovery Percentage 1	104.225 %	105.177 %	102.787 %	100.314 %	100.955 %	100.755 %	94.733 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.2 %	0.2 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5098 ppm	0.4816 ppm	0.5137 ppm	10.7147 ppm	0.5331 ppm	0.5071 ppm	0.5078 ppm
Concentration per Run 1	0.5118 ppm	0.4805 ppm	0.5056 ppm	10.6809 ppm	0.5326 ppm	0.5058 ppm	0.5049 ppm
Concentration per Run 2	0.5088 ppm	0.4825 ppm	0.5155 ppm	10.7438 ppm	0.5335 ppm	0.5077 ppm	0.5071 ppm
Concentration per Run 3	0.5087 ppm	0.4818 ppm	0.5201 ppm	10.7195 ppm	0.5333 ppm	0.5077 ppm	0.5115 ppm
Recovery Percentage 1	101.950 %	96.327 %	102.748 %	107.147 %	106.622 %	101.413 %	101.568 %
Concentration RSD	0.3 %	0.2 %	1.4 %	0.3 %	0.1 %	0.2 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5092 ppm	5.3812 ppm	0.5431 ppm	0.5184 ppm	0.5198 ppm	0.4995 ppm	0.5146 ppm
Concentration per Run 1	0.5085 ppm	5.3704 ppm	0.5387 ppm	0.5187 ppm	0.5189 ppm	0.4985 ppm	0.5144 ppm
Concentration per Run 2	0.5070 ppm	5.3879 ppm	0.5476 ppm	0.5184 ppm	0.5221 ppm	0.4996 ppm	0.5139 ppm
Concentration per Run 3	0.5121 ppm	5.3852 ppm	0.5429 ppm	0.5182 ppm	0.5183 ppm	0.5003 ppm	0.5155 ppm
Recovery Percentage 1	101.837 %	102.498 %	108.617 %	103.685 %	103.962 %	99.894 %	102.920 %
Concentration RSD	0.5 %	0.2 %	0.8 %	0.1 %	0.4 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5360 ppm	100.1880 %	109.0091 %	99.9063 %	97.8600 %	106.5833 %	99.5837 %
Concentration per Run 1	0.5347 ppm	99.9604 %	109.3316 %	100.2171 %	97.4823 %	106.8906 %	99.7894 %
Concentration per Run 2	0.5367 ppm	100.3284 %	108.8402 %	99.6358 %	98.0347 %	106.4068 %	99.4557 %
Concentration per Run 3	0.5364 ppm	100.2752 %	108.8556 %	99.8660 %	98.0630 %	106.4526 %	99.5060 %
Recovery Percentage 1	107.191 %						
Concentration RSD	0.2 %	0.2 %	0.3 %	0.3 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 1:38:40 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0230 ppm	0.0012 ppm	0.0007 ppm	-0.0004 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0004 ppm	-0.0219 ppm	0.0025 ppm	0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 2	-0.0002 ppm	-0.0291 ppm	0.0012 ppm	0.0011 ppm	-0.0004 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0181 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0027 ppm
Recovery Percentage 1	-2.592 %	-23.011 %	40.862 %	2.276 %	-3.813 %	0.769 %	3.578 %
Concentration RSD	160.5 %	24.2 %	97.7 %	52.5 %	4.7 %	166.7 %	65.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0076 ppm	-0.0308 ppm	-0.0036 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0088 ppm	-0.0505 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	-0.0004 ppm	-0.0003 ppm	0.0087 ppm	-0.0152 ppm	-0.0040 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0052 ppm	-0.0265 ppm	-0.0038 ppm
Recovery Percentage 1	0.700 %	-0.979 %	-1.461 %	-0.686 %	15.174 %	-1.230 %	-35.739 %
Concentration RSD	188.0 %	103.4 %	127.3 %	382.0 %	27.2 %	58.5 %	15.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0001 ppm	-0.0015 ppm	0.0340 ppm	0.0002 ppm	-0.0004 ppm	-0.0024 ppm
Concentration per Run 1	0.0024 ppm	0.0001 ppm	-0.0020 ppm	0.0315 ppm	-0.0003 ppm	-0.0012 ppm	-0.0048 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	-0.0017 ppm	0.0345 ppm	0.0005 ppm	-0.0004 ppm	-0.0027 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	-0.0009 ppm	0.0361 ppm	0.0005 ppm	0.0004 ppm	0.0003 ppm
Recovery Percentage 1	0.494 %	1.133 %	-3.039 %	1.702 %	0.954 %	-3.853 %	-4.784 %
Concentration RSD	330.5 %	65.2 %	36.7 %	6.9 %	202.3 %	213.7 %	107.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0059 ppm	0.0007 ppm	0.0000 ppm	0.0009 ppm	-0.0018 ppm	-0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0055 ppm	0.0009 ppm	-0.0001 ppm	0.0009 ppm	-0.0015 ppm	-0.0004 ppm
Concentration per Run 2	0.0016 ppm	0.0060 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	-0.0019 ppm	-0.0007 ppm
Concentration per Run 3	0.0009 ppm	0.0062 ppm	0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0019 ppm	-0.0006 ppm
Recovery Percentage 1	8.929 %	1.179 %	1.356 %	0.380 %	8.732 %	-8.867 %	-5.471 %
Concentration RSD	76.4 %	5.9 %	93.9 %	272.1 %	14.7 %	11.8 %	21.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	94.6901 %	104.1346 %	96.8239 %	99.0444 %	106.0747 %	100.8701 %
Concentration per Run 1	0.0009 ppm	93.3305 %	103.9334 %	96.4786 %	98.6318 %	106.5735 %	100.7383 %
Concentration per Run 2	0.0008 ppm	94.8260 %	105.4060 %	96.8886 %	98.9758 %	106.9532 %	101.0197 %
Concentration per Run 3	0.0008 ppm	95.9138 %	103.0645 %	97.1044 %	99.5256 %	104.6974 %	100.8522 %
Recovery Percentage 1	16.457 %						
Concentration RSD	6.6 %	1.4 %	1.1 %	0.3 %	0.5 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-1 WG1935332
Analysis started at: 6/18/2024 1:44:45 PM
Rack 2
Vial 15
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0186 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0175 ppm
Concentration per Run 1	0.0000 ppm	-0.0184 ppm	0.0010 ppm	-0.0014 ppm	-0.0004 ppm	0.0000 ppm	0.0183 ppm
Concentration per Run 2	-0.0009 ppm	-0.0186 ppm	-0.0007 ppm	0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0172 ppm
Concentration per Run 3	-0.0005 ppm	-0.0190 ppm	-0.0001 ppm	0.0014 ppm	-0.0003 ppm	0.0000 ppm	0.0171 ppm
Recovery Percentage 1	-7.110 %	-18.649 %	1.732 %	0.329 %	-3.354 %	0.165 %	17.529 %
Concentration RSD	93.2 %	1.5 %	1,678.5 %	1,419.6 %	18.3 %	172.0 %	3.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0039 ppm	-0.0232 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	-0.0001 ppm	-0.0004 ppm	0.0043 ppm	-0.0141 ppm	-0.0046 ppm
Concentration per Run 2	0.0000 ppm	-0.0009 ppm	-0.0002 ppm	-0.0002 ppm	0.0045 ppm	-0.0167 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0029 ppm	-0.0388 ppm	-0.0051 ppm
Recovery Percentage 1	-0.052 %	-2.945 %	-1.388 %	-2.246 %	7.815 %	-0.927 %	-37.609 %
Concentration RSD	1,593.1 %	48.0 %	38.6 %	71.1 %	22.2 %	58.4 %	50.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0022 ppm	0.0008 ppm	-0.0029 ppm	0.0409 ppm	0.0007 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 1	0.0009 ppm	0.0009 ppm	-0.0024 ppm	0.0437 ppm	-0.0006 ppm	0.0006 ppm	-0.0016 ppm
Concentration per Run 2	0.0024 ppm	0.0007 ppm	-0.0030 ppm	0.0414 ppm	0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0032 ppm	0.0008 ppm	-0.0033 ppm	0.0377 ppm	0.0020 ppm	-0.0018 ppm	0.0006 ppm
Recovery Percentage 1	2.181 %	8.162 %	-5.848 %	2.047 %	2.606 %	-6.549 %	-0.820 %
Concentration RSD	51.8 %	13.8 %	16.0 %	7.3 %	200.4 %	184.5 %	264.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0179 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 1	0.0010 ppm	0.0369 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 2	0.0015 ppm	0.0096 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0073 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0007 ppm	-0.0005 ppm
Recovery Percentage 1	8.544 %	3.589 %	0.342 %	-0.410 %	5.611 %	-2.496 %	-5.612 %
Concentration RSD	80.8 %	91.9 %	20.1 %	77.7 %	29.6 %	46.2 %	24.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	97.5471 %	104.0187 %	99.0879 %	104.6745 %	107.9273 %	105.0584 %
Concentration per Run 1	0.0026 ppm	96.8062 %	104.3029 %	99.0324 %	104.5162 %	108.9507 %	105.3310 %
Concentration per Run 2	0.0021 ppm	97.5242 %	104.1040 %	99.1138 %	104.7571 %	107.6643 %	104.9891 %
Concentration per Run 3	0.0023 ppm	98.3109 %	103.6493 %	99.1175 %	104.7501 %	107.1668 %	104.8549 %
Recovery Percentage 1	46.836 %						
Concentration RSD	12.2 %	0.8 %	0.3 %	0.0 %	0.1 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-2 WG1935332
Analysis started at: 6/18/2024 1:49:00 PM
Rack 2
Vial 16
Comment rr K & Sb

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0533 ppm	2.0142 ppm	0.1258 ppm	1.0569 ppm	2.0191 ppm	0.0509 ppm	10.2586 ppm
Concentration per Run 1	0.0539 ppm	2.0336 ppm	0.1268 ppm	1.0675 ppm	2.0236 ppm	0.0510 ppm	10.2871 ppm
Concentration per Run 2	0.0530 ppm	2.0164 ppm	0.1252 ppm	1.0552 ppm	2.0206 ppm	0.0508 ppm	10.2365 ppm
Concentration per Run 3	0.0531 ppm	1.9926 ppm	0.1255 ppm	1.0481 ppm	2.0129 ppm	0.0509 ppm	10.2523 ppm
Concentration RSD	0.9 %	1.0 %	0.7 %	0.9 %	0.3 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0577 ppm	0.5301 ppm	0.2108 ppm	0.2632 ppm	0.9773 ppm	10.2722 ppm	-0.0025 ppm
Concentration per Run 1	0.0585 ppm	0.5363 ppm	0.2137 ppm	0.2656 ppm	0.9796 ppm	10.3489 ppm	-0.0014 ppm
Concentration per Run 2	0.0575 ppm	0.5298 ppm	0.2104 ppm	0.2636 ppm	0.9771 ppm	10.2973 ppm	-0.0026 ppm
Concentration per Run 3	0.0570 ppm	0.5241 ppm	0.2082 ppm	0.2604 ppm	0.9753 ppm	10.1705 ppm	-0.0035 ppm
Concentration RSD	1.3 %	1.2 %	1.3 %	1.0 %	0.2 %	0.9 %	41.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6782 ppm	0.4874 ppm	1.0044 ppm	11.0251 ppm	0.5425 ppm	0.5614 ppm	0.4369 ppm
Concentration per Run 1	10.8026 ppm	0.4876 ppm	0.9953 ppm	11.0432 ppm	0.5500 ppm	0.5643 ppm	0.4401 ppm
Concentration per Run 2	10.6632 ppm	0.4878 ppm	1.0064 ppm	11.0136 ppm	0.5415 ppm	0.5622 ppm	0.4341 ppm
Concentration per Run 3	10.5687 ppm	0.4869 ppm	1.0115 ppm	11.0185 ppm	0.5361 ppm	0.5578 ppm	0.4365 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.1 %	1.3 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1290 ppm	1.0861 ppm	1.0570 ppm	1.0165 ppm	1.0850 ppm	0.1258 ppm	0.5363 ppm
Concentration per Run 1	0.1282 ppm	1.0977 ppm	1.0636 ppm	1.0193 ppm	1.0942 ppm	0.1251 ppm	0.5435 ppm
Concentration per Run 2	0.1316 ppm	1.0847 ppm	1.0532 ppm	1.0136 ppm	1.0813 ppm	0.1261 ppm	0.5346 ppm
Concentration per Run 3	0.1273 ppm	1.0759 ppm	1.0543 ppm	1.0166 ppm	1.0796 ppm	0.1261 ppm	0.5309 ppm
Concentration RSD	1.7 %	1.0 %	0.5 %	0.3 %	0.7 %	0.4 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5522 ppm	95.6148 %	106.8158 %	95.7910 %	98.8308 %	106.6153 %	99.7482 %
Concentration per Run 1	0.5582 ppm	94.1393 %	106.3018 %	95.2843 %	97.9059 %	106.2503 %	99.7353 %
Concentration per Run 2	0.5518 ppm	95.7409 %	107.4292 %	95.8355 %	99.0039 %	107.3927 %	99.8850 %
Concentration per Run 3	0.5467 ppm	96.9642 %	106.7163 %	96.2532 %	99.5826 %	106.2028 %	99.6242 %
Concentration RSD	1.0 %	1.5 %	0.5 %	0.5 %	0.9 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433035-03 WG1935332
Analysis started at: 6/18/2024 1:53:03 PM
Rack 2
Vial 17
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0567 ppm	-0.0001 ppm	0.0101 ppm	0.0169 ppm	0.0000 ppm	20.8450 ppm
Concentration per Run 1	-0.0004 ppm	0.0642 ppm	-0.0008 ppm	0.0112 ppm	0.0169 ppm	-0.0001 ppm	20.9418 ppm
Concentration per Run 2	0.0002 ppm	0.0504 ppm	-0.0002 ppm	0.0095 ppm	0.0168 ppm	0.0000 ppm	20.8062 ppm
Concentration per Run 3	-0.0007 ppm	0.0556 ppm	0.0006 ppm	0.0096 ppm	0.0169 ppm	0.0001 ppm	20.7869 ppm
Concentration RSD	156.5 %	12.3 %	538.8 %	9.7 %	0.6 %	5,830.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0240 ppm	0.9229 ppm	-0.0033 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0249 ppm	0.9564 ppm	-0.0029 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0235 ppm	0.9294 ppm	-0.0030 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0237 ppm	0.8830 ppm	-0.0039 ppm
Concentration RSD	933.4 %	43,581.9 %	38.3 %	17.8 %	3.0 %	4.0 %	17.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6010 ppm	0.0047 ppm	0.0012 ppm	4.5955 ppm	0.0005 ppm	-0.0006 ppm	0.0031 ppm
Concentration per Run 1	5.6836 ppm	0.0047 ppm	0.0014 ppm	4.6234 ppm	0.0009 ppm	-0.0007 ppm	0.0043 ppm
Concentration per Run 2	5.5963 ppm	0.0047 ppm	0.0010 ppm	4.5885 ppm	0.0007 ppm	-0.0001 ppm	0.0036 ppm
Concentration per Run 3	5.5230 ppm	0.0049 ppm	0.0010 ppm	4.5747 ppm	-0.0001 ppm	-0.0010 ppm	0.0013 ppm
Concentration RSD	1.4 %	2.6 %	21.8 %	0.5 %	111.7 %	71.3 %	50.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	4.0474 ppm	0.0014 ppm	0.0635 ppm	0.0006 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0018 ppm	4.0971 ppm	0.0013 ppm	0.0636 ppm	0.0005 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	4.0343 ppm	0.0011 ppm	0.0634 ppm	0.0007 ppm	0.0018 ppm	0.0001 ppm
Concentration per Run 3	0.0022 ppm	4.0107 ppm	0.0017 ppm	0.0634 ppm	0.0006 ppm	0.0009 ppm	-0.0002 ppm
Concentration RSD	37.1 %	1.1 %	22.1 %	0.1 %	11.3 %	174.0 %	311.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	93.1972 %	105.0204 %	95.6577 %	99.4834 %	108.1140 %	101.3958 %
Concentration per Run 1	0.0022 ppm	92.3282 %	103.9906 %	95.2561 %	99.8487 %	107.4427 %	101.5041 %
Concentration per Run 2	0.0025 ppm	92.8208 %	105.5720 %	95.4716 %	98.8535 %	108.5657 %	101.2748 %
Concentration per Run 3	0.0022 ppm	94.4425 %	105.4986 %	96.2454 %	99.7480 %	108.3335 %	101.4087 %
Concentration RSD	8.1 %	1.2 %	0.8 %	0.5 %	0.6 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-3 WG1935332
Analysis started at: 6/18/2024 1:57:00 PM
Rack 2
Vial 18
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0545 ppm	1.9651 ppm	0.1207 ppm	1.0820 ppm	1.9797 ppm	0.0502 ppm	29.8585 ppm
Concentration per Run 1	0.0547 ppm	1.9748 ppm	0.1279 ppm	1.0960 ppm	1.9704 ppm	0.0501 ppm	29.9410 ppm
Concentration per Run 2	0.0550 ppm	1.9621 ppm	0.1123 ppm	1.0820 ppm	1.9866 ppm	0.0504 ppm	29.8763 ppm
Concentration per Run 3	0.0538 ppm	1.9583 ppm	0.1220 ppm	1.0679 ppm	1.9822 ppm	0.0500 ppm	29.7583 ppm
Concentration RSD	1.2 %	0.4 %	6.5 %	1.3 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0580 ppm	0.5288 ppm	0.2124 ppm	0.2660 ppm	0.9487 ppm	10.9259 ppm	-0.0031 ppm
Concentration per Run 1	0.0591 ppm	0.5388 ppm	0.2160 ppm	0.2701 ppm	0.9499 ppm	10.9514 ppm	-0.0015 ppm
Concentration per Run 2	0.0578 ppm	0.5275 ppm	0.2117 ppm	0.2668 ppm	0.9496 ppm	10.9978 ppm	-0.0022 ppm
Concentration per Run 3	0.0572 ppm	0.5202 ppm	0.2095 ppm	0.2612 ppm	0.9466 ppm	10.8283 ppm	-0.0057 ppm
Concentration RSD	1.7 %	1.8 %	1.6 %	1.7 %	0.2 %	0.8 %	73.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.0623 ppm	0.4812 ppm	0.9643 ppm	15.0424 ppm	0.5430 ppm	0.5296 ppm	0.4479 ppm
Concentration per Run 1	16.3232 ppm	0.4805 ppm	0.9626 ppm	15.0432 ppm	0.5503 ppm	0.5548 ppm	0.4460 ppm
Concentration per Run 2	16.0175 ppm	0.4836 ppm	0.9614 ppm	15.0135 ppm	0.5440 ppm	0.4978 ppm	0.4482 ppm
Concentration per Run 3	15.8462 ppm	0.4795 ppm	0.9687 ppm	15.0705 ppm	0.5349 ppm	0.5364 ppm	0.4495 ppm
Concentration RSD	1.5 %	0.5 %	0.4 %	0.2 %	1.4 %	5.5 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1264 ppm	5.1523 ppm	1.0443 ppm	1.0425 ppm	1.0889 ppm	0.1205 ppm	0.5412 ppm
Concentration per Run 1	0.1319 ppm	5.2193 ppm	1.0529 ppm	1.0407 ppm	1.1036 ppm	0.1254 ppm	0.5466 ppm
Concentration per Run 2	0.1180 ppm	5.1654 ppm	1.0428 ppm	1.0409 ppm	1.0919 ppm	0.1124 ppm	0.5414 ppm
Concentration per Run 3	0.1294 ppm	5.0722 ppm	1.0373 ppm	1.0458 ppm	1.0712 ppm	0.1237 ppm	0.5356 ppm
Concentration RSD	5.9 %	1.4 %	0.8 %	0.3 %	1.5 %	5.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5578 ppm	94.1244 %	107.8930 %	99.2715 %	98.5009 %	107.0712 %	103.7090 %
Concentration per Run 1	0.5692 ppm	92.6801 %	107.1856 %	94.7122 %	98.2082 %	106.4202 %	99.8460 %
Concentration per Run 2	0.5557 ppm	94.6299 %	108.0353 %	105.2797 %	98.7022 %	107.4092 %	110.4821 %
Concentration per Run 3	0.5486 ppm	95.0631 %	108.4581 %	97.8226 %	98.5923 %	107.3840 %	100.7989 %
Concentration RSD	1.9 %	1.3 %	0.6 %	5.5 %	0.3 %	0.5 %	5.7 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-4 WG1935332
Analysis started at: 6/18/2024 2:00:58 PM
Rack 2
Vial 19
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0564 ppm	2.0276 ppm	0.1254 ppm	1.1212 ppm	2.0385 ppm	0.0516 ppm	30.5378 ppm
Concentration per Run 1	0.0561 ppm	2.0379 ppm	0.1335 ppm	1.1210 ppm	2.0452 ppm	0.0518 ppm	30.5468 ppm
Concentration per Run 2	0.0556 ppm	2.0225 ppm	0.1158 ppm	1.1021 ppm	2.0379 ppm	0.0517 ppm	30.5513 ppm
Concentration per Run 3	0.0576 ppm	2.0223 ppm	0.1268 ppm	1.1405 ppm	2.0323 ppm	0.0514 ppm	30.5154 ppm
Concentration RSD	1.9 %	0.4 %	7.1 %	1.7 %	0.3 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0601 ppm	0.5496 ppm	0.2201 ppm	0.2759 ppm	0.9772 ppm	11.2300 ppm	-0.0024 ppm
Concentration per Run 1	0.0603 ppm	0.5526 ppm	0.2204 ppm	0.2785 ppm	0.9846 ppm	11.2939 ppm	-0.0038 ppm
Concentration per Run 2	0.0591 ppm	0.5412 ppm	0.2163 ppm	0.2699 ppm	0.9758 ppm	11.2479 ppm	-0.0007 ppm
Concentration per Run 3	0.0609 ppm	0.5551 ppm	0.2237 ppm	0.2792 ppm	0.9713 ppm	11.1484 ppm	-0.0026 ppm
Concentration RSD	1.5 %	1.4 %	1.7 %	1.9 %	0.7 %	0.7 %	64.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.6336 ppm	0.4939 ppm	1.0059 ppm	15.3735 ppm	0.5616 ppm	0.5543 ppm	0.4672 ppm
Concentration per Run 1	16.6841 ppm	0.4944 ppm	0.9865 ppm	15.3575 ppm	0.5670 ppm	0.5901 ppm	0.4629 ppm
Concentration per Run 2	16.3985 ppm	0.4943 ppm	0.9928 ppm	15.4150 ppm	0.5516 ppm	0.5164 ppm	0.4674 ppm
Concentration per Run 3	16.8181 ppm	0.4929 ppm	1.0386 ppm	15.3480 ppm	0.5663 ppm	0.5563 ppm	0.4714 ppm
Concentration RSD	1.3 %	0.2 %	2.8 %	0.2 %	1.5 %	6.7 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1311 ppm	5.3357 ppm	1.0889 ppm	1.0729 ppm	1.1296 ppm	0.1251 ppm	0.5589 ppm
Concentration per Run 1	0.1386 ppm	5.3596 ppm	1.0854 ppm	1.0761 ppm	1.1322 ppm	0.1323 ppm	0.5591 ppm
Concentration per Run 2	0.1212 ppm	5.2294 ppm	1.0687 ppm	1.0712 ppm	1.1127 ppm	0.1158 ppm	0.5514 ppm
Concentration per Run 3	0.1336 ppm	5.4182 ppm	1.1127 ppm	1.0713 ppm	1.1439 ppm	0.1272 ppm	0.5663 ppm
Concentration RSD	6.8 %	1.8 %	2.0 %	0.3 %	1.4 %	6.7 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5789 ppm	92.8498 %	107.7891 %	97.2385 %	96.5776 %	107.6558 %	102.1225 %
Concentration per Run 1	0.5812 ppm	92.5671 %	107.0199 %	91.4500 %	98.4821 %	107.2647 %	97.2839 %
Concentration per Run 2	0.5693 ppm	93.9718 %	108.0058 %	103.6571 %	98.0279 %	108.0447 %	109.0687 %
Concentration per Run 3	0.5861 ppm	92.0106 %	108.3417 %	96.6085 %	93.2229 %	107.6581 %	100.0148 %
Concentration RSD	1.5 %	1.1 %	0.6 %	6.3 %	3.0 %	0.4 %	6.0 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-5 WG1935332
Analysis started at: 6/18/2024 2:05:02 PM
Rack 2
Vial 20
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0558 ppm	2.0544 ppm	0.1326 ppm	1.1311 ppm	2.0788 ppm	0.0525 ppm	30.1492 ppm
Concentration per Run 1	0.0564 ppm	2.0553 ppm	0.1327 ppm	1.1395 ppm	2.0839 ppm	0.0527 ppm	30.2134 ppm
Concentration per Run 2	0.0552 ppm	2.0532 ppm	0.1326 ppm	1.1352 ppm	2.0801 ppm	0.0527 ppm	30.1507 ppm
Concentration per Run 3	0.0559 ppm	2.0547 ppm	0.1324 ppm	1.1187 ppm	2.0724 ppm	0.0521 ppm	30.0836 ppm
Concentration RSD	1.1 %	0.1 %	0.1 %	1.0 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0596 ppm	0.5429 ppm	0.2183 ppm	0.2730 ppm	1.0170 ppm	11.5983 ppm	-0.0022 ppm
Concentration per Run 1	0.0602 ppm	0.5480 ppm	0.2208 ppm	0.2767 ppm	1.0260 ppm	11.6605 ppm	-0.0017 ppm
Concentration per Run 2	0.0597 ppm	0.5436 ppm	0.2186 ppm	0.2724 ppm	1.0184 ppm	11.5475 ppm	-0.0002 ppm
Concentration per Run 3	0.0589 ppm	0.5371 ppm	0.2155 ppm	0.2699 ppm	1.0065 ppm	11.5868 ppm	-0.0048 ppm
Concentration RSD	1.1 %	1.0 %	1.2 %	1.3 %	1.0 %	0.5 %	105.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.3187 ppm	0.5025 ppm	1.0070 ppm	15.6084 ppm	0.5549 ppm	0.5838 ppm	0.3964 ppm
Concentration per Run 1	16.5497 ppm	0.5037 ppm	0.9952 ppm	15.7055 ppm	0.5639 ppm	0.5875 ppm	0.3898 ppm
Concentration per Run 2	16.3271 ppm	0.5030 ppm	1.0089 ppm	15.5605 ppm	0.5566 ppm	0.5815 ppm	0.3989 ppm
Concentration per Run 3	16.0793 ppm	0.5009 ppm	1.0169 ppm	15.5593 ppm	0.5444 ppm	0.5825 ppm	0.4007 ppm
Concentration RSD	1.4 %	0.3 %	1.1 %	0.5 %	1.8 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1376 ppm	4.9664 ppm	1.1015 ppm	1.1109 ppm	1.1374 ppm	0.1323 ppm	0.5556 ppm
Concentration per Run 1	0.1410 ppm	5.0212 ppm	1.1021 ppm	1.1178 ppm	1.1504 ppm	0.1313 ppm	0.5614 ppm
Concentration per Run 2	0.1347 ppm	4.9663 ppm	1.1044 ppm	1.1097 ppm	1.1378 ppm	0.1330 ppm	0.5551 ppm
Concentration per Run 3	0.1371 ppm	4.9118 ppm	1.0979 ppm	1.1052 ppm	1.1240 ppm	0.1325 ppm	0.5502 ppm
Concentration RSD	2.3 %	1.1 %	0.3 %	0.6 %	1.2 %	0.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5719 ppm	94.6306 %	106.6635 %	95.0890 %	99.1989 %	107.8264 %	100.1252 %
Concentration per Run 1	0.5790 ppm	93.7141 %	106.4577 %	95.0793 %	99.1706 %	108.2386 %	100.6131 %
Concentration per Run 2	0.5734 ppm	94.5149 %	107.0882 %	95.0990 %	99.0145 %	108.1317 %	99.9759 %
Concentration per Run 3	0.5634 ppm	95.6628 %	106.4447 %	95.0887 %	99.4117 %	107.1090 %	99.7865 %
Concentration RSD	1.4 %	1.0 %	0.3 %	0.0 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-6D5 WG1935332
Analysis started at: 6/18/2024 2:09:00 PM
Rack 2
Vial 21
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0189 ppm	0.0000 ppm	0.0029 ppm	0.0031 ppm	0.0000 ppm	4.1376 ppm
Concentration per Run 1	-0.0006 ppm	-0.0182 ppm	0.0006 ppm	0.0030 ppm	0.0030 ppm	0.0000 ppm	4.1481 ppm
Concentration per Run 2	-0.0007 ppm	-0.0210 ppm	-0.0018 ppm	0.0027 ppm	0.0032 ppm	0.0000 ppm	4.1314 ppm
Concentration per Run 3	-0.0003 ppm	-0.0176 ppm	0.0012 ppm	0.0029 ppm	0.0032 ppm	0.0000 ppm	4.1334 ppm
Concentration RSD	40.3 %	9.6 %	5,300.5 %	5.5 %	2.6 %	96.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0008 ppm	0.0076 ppm	0.1605 ppm	-0.0045 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0084 ppm	0.1706 ppm	-0.0047 ppm
Concentration per Run 2	-0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0012 ppm	0.0059 ppm	0.1512 ppm	-0.0045 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0085 ppm	0.1599 ppm	-0.0043 ppm
Concentration RSD	115.7 %	121.6 %	70.2 %	34.2 %	19.7 %	6.0 %	5.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0910 ppm	0.0011 ppm	0.0042 ppm	0.9452 ppm	0.0003 ppm	0.0001 ppm	0.0068 ppm
Concentration per Run 1	1.1072 ppm	0.0011 ppm	0.0045 ppm	0.9503 ppm	-0.0003 ppm	-0.0004 ppm	0.0067 ppm
Concentration per Run 2	1.0879 ppm	0.0012 ppm	0.0042 ppm	0.9402 ppm	0.0005 ppm	-0.0006 ppm	0.0040 ppm
Concentration per Run 3	1.0780 ppm	0.0010 ppm	0.0040 ppm	0.9452 ppm	0.0006 ppm	0.0012 ppm	0.0095 ppm
Concentration RSD	1.4 %	10.9 %	5.7 %	0.5 %	178.3 %	1,428.3 %	40.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	0.7805 ppm	0.0089 ppm	0.0125 ppm	0.0014 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 1	0.0041 ppm	0.7863 ppm	0.0087 ppm	0.0125 ppm	0.0003 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 2	0.0030 ppm	0.7860 ppm	0.0084 ppm	0.0125 ppm	0.0032 ppm	-0.0021 ppm	-0.0002 ppm
Concentration per Run 3	0.0031 ppm	0.7692 ppm	0.0096 ppm	0.0124 ppm	0.0007 ppm	-0.0006 ppm	-0.0006 ppm
Concentration RSD	17.6 %	1.3 %	7.1 %	0.2 %	110.6 %	137.4 %	56.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	94.5073 %	105.5631 %	96.8909 %	99.2652 %	107.4595 %	100.9792 %
Concentration per Run 1	0.0013 ppm	93.0126 %	104.9095 %	96.3586 %	98.5531 %	107.0807 %	101.1412 %
Concentration per Run 2	0.0011 ppm	94.5726 %	106.1569 %	96.8389 %	99.3342 %	108.0276 %	100.9547 %
Concentration per Run 3	0.0011 ppm	95.9368 %	105.6230 %	97.4751 %	99.9083 %	107.2702 %	100.8416 %
Concentration RSD	7.6 %	1.5 %	0.6 %	0.6 %	0.7 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: Test ICV 0440 MAM
Analysis started at: 6/18/2024 2:12:58 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5025 ppm	0.4797 ppm	0.4862 ppm	0.4990 ppm	0.5017 ppm	0.5028 ppm	0.4852 ppm
Concentration per Run 1	0.5009 ppm	0.4794 ppm	0.4839 ppm	0.5010 ppm	0.5002 ppm	0.5027 ppm	0.4852 ppm
Concentration per Run 2	0.5023 ppm	0.4777 ppm	0.4869 ppm	0.4984 ppm	0.5032 ppm	0.5036 ppm	0.4872 ppm
Concentration per Run 3	0.5045 ppm	0.4820 ppm	0.4877 ppm	0.4974 ppm	0.5017 ppm	0.5020 ppm	0.4830 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	0.4 %	0.3 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5081 ppm	0.5133 ppm	0.5020 ppm	0.4899 ppm	0.4778 ppm	5.0363 ppm	0.4796 ppm
Concentration per Run 1	0.5085 ppm	0.5131 ppm	0.5007 ppm	0.4900 ppm	0.4785 ppm	5.0271 ppm	0.4776 ppm
Concentration per Run 2	0.5076 ppm	0.5132 ppm	0.5006 ppm	0.4897 ppm	0.4775 ppm	5.0789 ppm	0.4849 ppm
Concentration per Run 3	0.5081 ppm	0.5136 ppm	0.5046 ppm	0.4901 ppm	0.4775 ppm	5.0030 ppm	0.4762 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	0.0 %	0.1 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4956 ppm	0.4725 ppm	0.5006 ppm	10.5912 ppm	0.5215 ppm	0.4936 ppm	0.5017 ppm
Concentration per Run 1	0.4957 ppm	0.4723 ppm	0.4930 ppm	10.6014 ppm	0.5208 ppm	0.4933 ppm	0.4998 ppm
Concentration per Run 2	0.4939 ppm	0.4735 ppm	0.5014 ppm	10.5643 ppm	0.5217 ppm	0.4943 ppm	0.5001 ppm
Concentration per Run 3	0.4972 ppm	0.4716 ppm	0.5073 ppm	10.6078 ppm	0.5219 ppm	0.4933 ppm	0.5052 ppm
Concentration RSD	0.3 %	0.2 %	1.4 %	0.2 %	0.1 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4981 ppm	5.6820 ppm	0.5490 ppm	0.5176 ppm	0.5108 ppm	0.4901 ppm	0.5026 ppm
Concentration per Run 1	0.4964 ppm	5.6712 ppm	0.5488 ppm	0.5180 ppm	0.5098 ppm	0.4887 ppm	0.5016 ppm
Concentration per Run 2	0.4957 ppm	5.6732 ppm	0.5492 ppm	0.5173 ppm	0.5097 ppm	0.4907 ppm	0.5026 ppm
Concentration per Run 3	0.5021 ppm	5.7017 ppm	0.5490 ppm	0.5176 ppm	0.5130 ppm	0.4909 ppm	0.5038 ppm
Concentration RSD	0.7 %	0.3 %	0.0 %	0.1 %	0.4 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5230 ppm	100.6289 %	108.6436 %	99.7783 %	97.8915 %	106.2604 %	99.1047 %
Concentration per Run 1	0.5220 ppm	100.5425 %	108.5490 %	99.8077 %	97.8660 %	106.1068 %	99.0215 %
Concentration per Run 2	0.5226 ppm	100.9961 %	108.5523 %	99.6654 %	98.1897 %	106.2751 %	99.1516 %
Concentration per Run 3	0.5244 ppm	100.3481 %	108.8294 %	99.8618 %	97.6188 %	106.3993 %	99.1410 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.1 %	0.3 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 2:16:55 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5130 ppm	0.4852 ppm	0.4929 ppm	0.5097 ppm	0.5101 ppm	0.5108 ppm	0.4984 ppm
Concentration per Run 1	0.5125 ppm	0.4914 ppm	0.4934 ppm	0.5095 ppm	0.5088 ppm	0.5095 ppm	0.4954 ppm
Concentration per Run 2	0.5123 ppm	0.4841 ppm	0.4935 ppm	0.5085 ppm	0.5080 ppm	0.5106 ppm	0.4975 ppm
Concentration per Run 3	0.5141 ppm	0.4799 ppm	0.4918 ppm	0.5112 ppm	0.5133 ppm	0.5123 ppm	0.5024 ppm
Recovery Percentage 1	102.598 %	97.032 %	98.579 %	101.945 %	102.013 %	102.158 %	99.690 %
Concentration RSD	0.2 %	1.2 %	0.2 %	0.3 %	0.6 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5171 ppm	0.5219 ppm	0.5113 ppm	0.5003 ppm	0.4977 ppm	5.0913 ppm	0.4714 ppm
Concentration per Run 1	0.5186 ppm	0.5228 ppm	0.5115 ppm	0.5015 ppm	0.5014 ppm	5.1144 ppm	0.4784 ppm
Concentration per Run 2	0.5152 ppm	0.5208 ppm	0.5103 ppm	0.5004 ppm	0.4944 ppm	5.0512 ppm	0.4656 ppm
Concentration per Run 3	0.5175 ppm	0.5220 ppm	0.5121 ppm	0.4991 ppm	0.4975 ppm	5.1085 ppm	0.4703 ppm
Recovery Percentage 1	103.416 %	104.375 %	102.263 %	100.060 %	99.548 %	101.827 %	94.286 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.2 %	0.7 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5064 ppm	0.4818 ppm	0.5123 ppm	10.6681 ppm	0.5296 ppm	0.5027 ppm	0.5116 ppm
Concentration per Run 1	0.5077 ppm	0.4831 ppm	0.5048 ppm	10.6880 ppm	0.5320 ppm	0.5029 ppm	0.5088 ppm
Concentration per Run 2	0.5075 ppm	0.4795 ppm	0.5106 ppm	10.6397 ppm	0.5272 ppm	0.5020 ppm	0.5106 ppm
Concentration per Run 3	0.5039 ppm	0.4828 ppm	0.5214 ppm	10.6766 ppm	0.5297 ppm	0.5032 ppm	0.5155 ppm
Recovery Percentage 1	101.275 %	96.361 %	102.456 %	106.681 %	105.923 %	100.540 %	102.325 %
Concentration RSD	0.4 %	0.4 %	1.6 %	0.2 %	0.5 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5078 ppm	5.3419 ppm	0.5434 ppm	0.5189 ppm	0.5205 ppm	0.5006 ppm	0.5123 ppm
Concentration per Run 1	0.5078 ppm	5.3545 ppm	0.5450 ppm	0.5186 ppm	0.5210 ppm	0.5003 ppm	0.5124 ppm
Concentration per Run 2	0.5120 ppm	5.3291 ppm	0.5421 ppm	0.5181 ppm	0.5191 ppm	0.5012 ppm	0.5118 ppm
Concentration per Run 3	0.5035 ppm	5.3420 ppm	0.5431 ppm	0.5199 ppm	0.5215 ppm	0.5002 ppm	0.5127 ppm
Recovery Percentage 1	101.551 %	101.750 %	108.675 %	103.773 %	104.108 %	100.116 %	102.464 %
Concentration RSD	0.8 %	0.2 %	0.3 %	0.2 %	0.2 %	0.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5334 ppm	100.7504 %	108.2136 %	100.0793 %	98.2749 %	106.3596 %	99.4671 %
Concentration per Run 1	0.5338 ppm	100.0195 %	108.4268 %	100.4022 %	97.4621 %	106.7617 %	99.7359 %
Concentration per Run 2	0.5324 ppm	101.1959 %	108.9991 %	99.9901 %	98.7784 %	107.0392 %	99.1821 %
Concentration per Run 3	0.5340 ppm	101.0359 %	107.2149 %	99.8456 %	98.5843 %	105.2778 %	99.4834 %
Recovery Percentage 1	106.677 %						
Concentration RSD	0.2 %	0.6 %	0.8 %	0.3 %	0.7 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 2:20:53 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0117 ppm	-0.0014 ppm	0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0035 ppm
Concentration per Run 1	-0.0003 ppm	-0.0074 ppm	-0.0021 ppm	0.0024 ppm	-0.0004 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0113 ppm	-0.0001 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	-0.0005 ppm	-0.0164 ppm	-0.0019 ppm	-0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0066 ppm
Recovery Percentage 1	-3.672 %	-11.683 %	-46.403 %	2.967 %	-2.892 %	1.651 %	3.546 %
Concentration RSD	81.2 %	38.6 %	79.8 %	166.4 %	42.5 %	19.9 %	76.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0073 ppm	-0.0397 ppm	-0.0027 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0083 ppm	-0.0486 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm	-0.0564 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0004 ppm	0.0072 ppm	-0.0143 ppm	-0.0029 ppm
Recovery Percentage 1	1.108 %	-1.098 %	1.753 %	1.381 %	14.554 %	-1.590 %	-26.748 %
Concentration RSD	142.8 %	262.1 %	80.8 %	148.9 %	12.7 %	56.3 %	6.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0003 ppm	-0.0009 ppm	0.0293 ppm	0.0001 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.0002 ppm	-0.0010 ppm	0.0305 ppm	0.0004 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	-0.0010 ppm	0.0003 ppm	-0.0005 ppm	0.0205 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0016 ppm	0.0005 ppm	-0.0012 ppm	0.0370 ppm	-0.0003 ppm	-0.0011 ppm	-0.0013 ppm
Recovery Percentage 1	-1.390 %	3.369 %	-1.758 %	1.466 %	0.221 %	-6.001 %	0.435 %
Concentration RSD	27.0 %	48.4 %	41.9 %	28.5 %	627.4 %	81.5 %	699.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0033 ppm	0.0007 ppm	0.0000 ppm	0.0006 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 1	0.0032 ppm	0.0029 ppm	0.0004 ppm	-0.0001 ppm	0.0004 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	0.0036 ppm	0.0013 ppm	0.0001 ppm	0.0009 ppm	-0.0024 ppm	-0.0003 ppm
Concentration per Run 3	-0.0018 ppm	0.0033 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0010 ppm	-0.0003 ppm
Recovery Percentage 1	9.576 %	0.651 %	1.470 %	0.238 %	5.924 %	-4.598 %	-1.822 %
Concentration RSD	266.9 %	11.1 %	62.0 %	281.0 %	40.7 %	189.0 %	107.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	93.1251 %	103.9877 %	95.6371 %	97.7701 %	106.4841 %	99.8325 %
Concentration per Run 1	0.0011 ppm	92.0182 %	103.6655 %	95.2877 %	97.1195 %	106.4182 %	99.6167 %
Concentration per Run 2	0.0008 ppm	93.2451 %	104.2413 %	96.0594 %	97.8697 %	106.3278 %	100.2471 %
Concentration per Run 3	0.0007 ppm	94.1120 %	104.0564 %	95.5642 %	98.3212 %	106.7063 %	99.6338 %
Recovery Percentage 1	17.095 %						
Concentration RSD	25.6 %	1.1 %	0.3 %	0.4 %	0.6 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433035-04 WG1935332
Analysis started at: 6/18/2024 2:40:16 PM
Rack 2
Vial 22
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0263 ppm	0.0016 ppm	0.0302 ppm	0.0237 ppm	0.0005 ppm	10.4962 ppm
Concentration per Run 1	-0.0001 ppm	0.0301 ppm	0.0013 ppm	0.0306 ppm	0.0238 ppm	0.0005 ppm	10.5488 ppm
Concentration per Run 2	0.0002 ppm	0.0238 ppm	0.0018 ppm	0.0294 ppm	0.0239 ppm	0.0006 ppm	10.4663 ppm
Concentration per Run 3	0.0005 ppm	0.0251 ppm	0.0017 ppm	0.0304 ppm	0.0234 ppm	0.0005 ppm	10.4735 ppm
Concentration RSD	131.4 %	12.6 %	17.2 %	2.1 %	1.1 %	6.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0029 ppm	0.0016 ppm	0.0013 ppm	2.7761 ppm	0.9275 ppm	-0.0016 ppm
Concentration per Run 1	0.0005 ppm	0.0031 ppm	0.0018 ppm	0.0015 ppm	2.7727 ppm	0.9692 ppm	-0.0027 ppm
Concentration per Run 2	0.0006 ppm	0.0028 ppm	0.0017 ppm	0.0011 ppm	2.7798 ppm	0.9036 ppm	-0.0012 ppm
Concentration per Run 3	0.0006 ppm	0.0027 ppm	0.0013 ppm	0.0013 ppm	2.7759 ppm	0.9096 ppm	-0.0007 ppm
Concentration RSD	13.6 %	7.1 %	15.6 %	14.1 %	0.1 %	3.9 %	66.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8662 ppm	0.0402 ppm	-0.0025 ppm	9.0843 ppm	0.0035 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 1	4.9370 ppm	0.0406 ppm	-0.0023 ppm	9.1106 ppm	0.0037 ppm	0.0003 ppm	-0.0022 ppm
Concentration per Run 2	4.8504 ppm	0.0402 ppm	-0.0030 ppm	9.0574 ppm	0.0030 ppm	0.0007 ppm	0.0030 ppm
Concentration per Run 3	4.8110 ppm	0.0400 ppm	-0.0020 ppm	9.0848 ppm	0.0039 ppm	0.0004 ppm	-0.0012 ppm
Concentration RSD	1.3 %	0.7 %	20.9 %	0.3 %	13.2 %	52.5 %	1,966.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	8.4586 ppm	-0.0006 ppm	0.0427 ppm	0.0025 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0014 ppm	8.5686 ppm	-0.0008 ppm	0.0429 ppm	0.0022 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	8.4376 ppm	-0.0004 ppm	0.0426 ppm	0.0036 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 3	0.0040 ppm	8.3697 ppm	-0.0006 ppm	0.0427 ppm	0.0018 ppm	-0.0008 ppm	0.0004 ppm
Concentration RSD	61.5 %	1.2 %	30.3 %	0.3 %	38.1 %	177.9 %	105.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0077 ppm	93.8522 %	105.7009 %	96.0320 %	99.4726 %	107.8414 %	100.8229 %
Concentration per Run 1	0.0079 ppm	92.6631 %	105.7469 %	96.1252 %	99.0335 %	108.1985 %	101.3630 %
Concentration per Run 2	0.0078 ppm	94.4236 %	105.9002 %	95.6852 %	100.1256 %	107.9323 %	100.3140 %
Concentration per Run 3	0.0076 ppm	94.4698 %	105.4555 %	96.2856 %	99.2587 %	107.3935 %	100.7917 %
Concentration RSD	2.0 %	1.1 %	0.2 %	0.3 %	0.6 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-7 WG1935332
Analysis started at: 6/18/2024 2:44:21 PM
Rack 2
Vial 23
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0537 ppm	2.0327 ppm	0.1294 ppm	1.1058 ppm	2.0452 ppm	0.0512 ppm	20.6278 ppm
Concentration per Run 1	0.0542 ppm	2.0424 ppm	0.1299 ppm	1.1107 ppm	2.0442 ppm	0.0513 ppm	20.6710 ppm
Concentration per Run 2	0.0534 ppm	2.0219 ppm	0.1307 ppm	1.1074 ppm	2.0428 ppm	0.0513 ppm	20.6618 ppm
Concentration per Run 3	0.0534 ppm	2.0339 ppm	0.1276 ppm	1.0994 ppm	2.0486 ppm	0.0511 ppm	20.5506 ppm
Concentration RSD	0.8 %	0.5 %	1.2 %	0.5 %	0.1 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0581 ppm	0.5320 ppm	0.2127 ppm	0.2659 ppm	3.7469 ppm	11.1627 ppm	-0.0014 ppm
Concentration per Run 1	0.0587 ppm	0.5387 ppm	0.2144 ppm	0.2692 ppm	3.7508 ppm	11.2180 ppm	0.0002 ppm
Concentration per Run 2	0.0578 ppm	0.5310 ppm	0.2129 ppm	0.2658 ppm	3.7566 ppm	11.1244 ppm	-0.0022 ppm
Concentration per Run 3	0.0578 ppm	0.5262 ppm	0.2108 ppm	0.2626 ppm	3.7333 ppm	11.1457 ppm	-0.0023 ppm
Concentration RSD	0.9 %	1.2 %	0.8 %	1.3 %	0.3 %	0.4 %	98.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5190 ppm	0.5289 ppm	0.9580 ppm	19.9187 ppm	0.5414 ppm	0.5583 ppm	0.4901 ppm
Concentration per Run 1	15.7078 ppm	0.5320 ppm	0.9449 ppm	19.9954 ppm	0.5468 ppm	0.5616 ppm	0.4877 ppm
Concentration per Run 2	15.4823 ppm	0.5283 ppm	0.9592 ppm	19.9438 ppm	0.5410 ppm	0.5558 ppm	0.4876 ppm
Concentration per Run 3	15.3669 ppm	0.5265 ppm	0.9699 ppm	19.8169 ppm	0.5365 ppm	0.5574 ppm	0.4949 ppm
Concentration RSD	1.1 %	0.5 %	1.3 %	0.5 %	0.9 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1334 ppm	9.7117 ppm	1.0518 ppm	1.0622 ppm	1.0942 ppm	0.1257 ppm	0.5391 ppm
Concentration per Run 1	0.1345 ppm	9.7874 ppm	1.0553 ppm	1.0635 ppm	1.1030 ppm	0.1258 ppm	0.5423 ppm
Concentration per Run 2	0.1319 ppm	9.7110 ppm	1.0504 ppm	1.0655 ppm	1.0929 ppm	0.1254 ppm	0.5395 ppm
Concentration per Run 3	0.1336 ppm	9.6367 ppm	1.0498 ppm	1.0575 ppm	1.0867 ppm	0.1260 ppm	0.5354 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %	0.4 %	0.8 %	0.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5591 ppm	94.0215 %	106.3880 %	94.7155 %	97.8667 %	106.8060 %	99.1953 %
Concentration per Run 1	0.5664 ppm	92.7002 %	106.3337 %	94.1901 %	97.7512 %	107.6033 %	99.2218 %
Concentration per Run 2	0.5579 ppm	94.3817 %	106.0994 %	94.8783 %	98.1571 %	106.2988 %	99.2678 %
Concentration per Run 3	0.5528 ppm	94.9827 %	106.7310 %	95.0780 %	97.6917 %	106.5160 %	99.0962 %
Concentration RSD	1.2 %	1.3 %	0.3 %	0.5 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-8 WG1935332
Analysis started at: 6/18/2024 2:48:19 PM
Rack 2
Vial 24
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0096 ppm	0.0021 ppm	0.0351 ppm	0.0263 ppm	0.0001 ppm	10.8543 ppm
Concentration per Run 1	0.0005 ppm	0.0026 ppm	0.0022 ppm	0.0351 ppm	0.0266 ppm	0.0002 ppm	10.9449 ppm
Concentration per Run 2	0.0003 ppm	0.0106 ppm	0.0023 ppm	0.0344 ppm	0.0261 ppm	0.0001 ppm	10.7802 ppm
Concentration per Run 3	0.0004 ppm	0.0157 ppm	0.0019 ppm	0.0359 ppm	0.0264 ppm	0.0001 ppm	10.8379 ppm
Concentration RSD	23.6 %	68.4 %	8.9 %	2.1 %	0.8 %	24.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0050 ppm	0.0018 ppm	0.0019 ppm	2.8391 ppm	0.9814 ppm	-0.0023 ppm
Concentration per Run 1	0.0005 ppm	0.0049 ppm	0.0019 ppm	0.0022 ppm	2.8587 ppm	1.0116 ppm	-0.0025 ppm
Concentration per Run 2	0.0004 ppm	0.0051 ppm	0.0019 ppm	0.0019 ppm	2.8227 ppm	0.9582 ppm	-0.0016 ppm
Concentration per Run 3	0.0003 ppm	0.0050 ppm	0.0015 ppm	0.0016 ppm	2.8360 ppm	0.9742 ppm	-0.0027 ppm
Concentration RSD	16.3 %	2.7 %	14.1 %	16.6 %	0.6 %	2.8 %	24.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.0968 ppm	0.0418 ppm	0.0050 ppm	9.3265 ppm	0.0044 ppm	0.0007 ppm	0.0019 ppm
Concentration per Run 1	5.1906 ppm	0.0422 ppm	0.0054 ppm	9.3714 ppm	0.0041 ppm	0.0005 ppm	0.0032 ppm
Concentration per Run 2	5.0926 ppm	0.0417 ppm	0.0051 ppm	9.2596 ppm	0.0052 ppm	0.0009 ppm	0.0043 ppm
Concentration per Run 3	5.0071 ppm	0.0415 ppm	0.0045 ppm	9.3485 ppm	0.0039 ppm	0.0007 ppm	-0.0018 ppm
Concentration RSD	1.8 %	0.8 %	8.2 %	0.6 %	16.7 %	24.2 %	170.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	8.8050 ppm	0.0069 ppm	0.0448 ppm	0.0055 ppm	0.0006 ppm	0.0018 ppm
Concentration per Run 1	0.0045 ppm	8.9538 ppm	0.0082 ppm	0.0450 ppm	0.0061 ppm	0.0002 ppm	0.0021 ppm
Concentration per Run 2	0.0004 ppm	8.7966 ppm	0.0071 ppm	0.0445 ppm	0.0056 ppm	0.0011 ppm	0.0017 ppm
Concentration per Run 3	0.0023 ppm	8.6646 ppm	0.0053 ppm	0.0448 ppm	0.0048 ppm	0.0005 ppm	0.0017 ppm
Concentration RSD	86.1 %	1.6 %	21.5 %	0.5 %	11.6 %	77.5 %	11.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0108 ppm	91.7917 %	104.7375 %	94.7786 %	98.9304 %	107.4085 %	101.0531 %
Concentration per Run 1	0.0113 ppm	90.2009 %	104.0833 %	94.2263 %	98.5800 %	107.3218 %	101.3764 %
Concentration per Run 2	0.0109 ppm	91.9768 %	104.9207 %	94.8594 %	99.1523 %	107.2922 %	100.8187 %
Concentration per Run 3	0.0102 ppm	93.1973 %	105.2086 %	95.2502 %	99.0589 %	107.6117 %	100.9641 %
Concentration RSD	5.1 %	1.6 %	0.6 %	0.5 %	0.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-9 WG1935332
Analysis started at: 6/18/2024 2:52:18 PM
Rack 2
Vial 25
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	1.8994 ppm	0.1227 ppm	1.0467 ppm	1.8953 ppm	0.0472 ppm	19.6780 ppm
Concentration per Run 1	0.0512 ppm	1.9072 ppm	0.1210 ppm	1.0665 ppm	1.8989 ppm	0.0472 ppm	19.6866 ppm
Concentration per Run 2	0.0501 ppm	1.8962 ppm	0.1234 ppm	1.0423 ppm	1.8987 ppm	0.0473 ppm	19.7303 ppm
Concentration per Run 3	0.0492 ppm	1.8947 ppm	0.1237 ppm	1.0314 ppm	1.8884 ppm	0.0472 ppm	19.6173 ppm
Concentration RSD	2.0 %	0.4 %	1.2 %	1.7 %	0.3 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0544 ppm	0.4971 ppm	0.1996 ppm	0.2494 ppm	3.5925 ppm	10.4669 ppm	-0.0021 ppm
Concentration per Run 1	0.0557 ppm	0.5062 ppm	0.2042 ppm	0.2538 ppm	3.5893 ppm	10.5126 ppm	-0.0007 ppm
Concentration per Run 2	0.0542 ppm	0.4962 ppm	0.1988 ppm	0.2488 ppm	3.5940 ppm	10.4851 ppm	-0.0036 ppm
Concentration per Run 3	0.0533 ppm	0.4888 ppm	0.1958 ppm	0.2457 ppm	3.5941 ppm	10.4031 ppm	-0.0020 ppm
Concentration RSD	2.2 %	1.8 %	2.1 %	1.6 %	0.1 %	0.5 %	70.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.8922 ppm	0.4904 ppm	0.9052 ppm	18.8526 ppm	0.5059 ppm	0.5270 ppm	0.3700 ppm
Concentration per Run 1	15.1488 ppm	0.4925 ppm	0.9035 ppm	18.9006 ppm	0.5170 ppm	0.5302 ppm	0.3667 ppm
Concentration per Run 2	14.8695 ppm	0.4911 ppm	0.9030 ppm	18.8060 ppm	0.5062 ppm	0.5271 ppm	0.3688 ppm
Concentration per Run 3	14.6584 ppm	0.4876 ppm	0.9090 ppm	18.8513 ppm	0.4944 ppm	0.5237 ppm	0.3747 ppm
Concentration RSD	1.7 %	0.5 %	0.4 %	0.3 %	2.2 %	0.6 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1256 ppm	9.4385 ppm	1.0002 ppm	0.9934 ppm	1.0335 ppm	0.1207 ppm	0.5069 ppm
Concentration per Run 1	0.1247 ppm	9.5918 ppm	1.0084 ppm	0.9923 ppm	1.0504 ppm	0.1206 ppm	0.5161 ppm
Concentration per Run 2	0.1244 ppm	9.4395 ppm	0.9972 ppm	0.9940 ppm	1.0315 ppm	0.1214 ppm	0.5056 ppm
Concentration per Run 3	0.1277 ppm	9.2842 ppm	0.9948 ppm	0.9938 ppm	1.0185 ppm	0.1202 ppm	0.4989 ppm
Concentration RSD	1.4 %	1.6 %	0.7 %	0.1 %	1.6 %	0.5 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5222 ppm	91.9502 %	105.9468 %	93.3586 %	97.3841 %	106.9605 %	98.6713 %
Concentration per Run 1	0.5321 ppm	90.0480 %	105.5762 %	93.0687 %	96.6730 %	106.6338 %	99.0870 %
Concentration per Run 2	0.5210 ppm	92.0329 %	106.4357 %	93.2584 %	97.2666 %	107.7719 %	98.6694 %
Concentration per Run 3	0.5135 ppm	93.7697 %	105.8283 %	93.7486 %	98.2126 %	106.4759 %	98.2574 %
Concentration RSD	1.8 %	2.0 %	0.4 %	0.4 %	0.8 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935332-10D5 WG1935332
Analysis started at: 6/18/2024 2:56:22 PM
Rack 2
Vial 26
Comment rr K

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0031 ppm	0.0007 ppm	0.0113 ppm	0.0076 ppm	0.0002 ppm	2.1718 ppm
Concentration per Run 1	0.0005 ppm	0.0075 ppm	0.0006 ppm	0.0123 ppm	0.0077 ppm	0.0002 ppm	2.1727 ppm
Concentration per Run 2	0.0005 ppm	0.0019 ppm	0.0001 ppm	0.0115 ppm	0.0072 ppm	0.0002 ppm	2.1706 ppm
Concentration per Run 3	0.0004 ppm	-0.0188 ppm	0.0014 ppm	0.0100 ppm	0.0078 ppm	0.0003 ppm	2.1722 ppm
Concentration RSD	14.7 %	444.4 %	95.5 %	10.3 %	4.6 %	10.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0026 ppm	0.0014 ppm	0.0019 ppm	0.5757 ppm	0.1933 ppm	-0.0035 ppm
Concentration per Run 1	0.0007 ppm	0.0029 ppm	0.0018 ppm	0.0020 ppm	0.5760 ppm	0.2238 ppm	-0.0026 ppm
Concentration per Run 2	0.0006 ppm	0.0027 ppm	0.0013 ppm	0.0018 ppm	0.5726 ppm	0.1669 ppm	-0.0051 ppm
Concentration per Run 3	0.0007 ppm	0.0020 ppm	0.0012 ppm	0.0020 ppm	0.5784 ppm	0.1893 ppm	-0.0027 ppm
Concentration RSD	11.9 %	18.7 %	23.3 %	7.6 %	0.5 %	14.8 %	39.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0544 ppm	0.0094 ppm	0.0065 ppm	1.9451 ppm	0.0039 ppm	0.0027 ppm	0.0067 ppm
Concentration per Run 1	1.0745 ppm	0.0095 ppm	0.0074 ppm	1.9506 ppm	0.0035 ppm	0.0025 ppm	0.0051 ppm
Concentration per Run 2	1.0538 ppm	0.0094 ppm	0.0061 ppm	1.9434 ppm	0.0036 ppm	0.0035 ppm	0.0056 ppm
Concentration per Run 3	1.0349 ppm	0.0095 ppm	0.0059 ppm	1.9411 ppm	0.0046 ppm	0.0020 ppm	0.0095 ppm
Concentration RSD	1.9 %	0.5 %	13.1 %	0.3 %	15.2 %	27.9 %	35.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	1.7417 ppm	0.0115 ppm	0.0103 ppm	0.0057 ppm	-0.0006 ppm	0.0023 ppm
Concentration per Run 1	0.0032 ppm	1.7813 ppm	0.0125 ppm	0.0104 ppm	0.0067 ppm	0.0012 ppm	0.0025 ppm
Concentration per Run 2	0.0012 ppm	1.7331 ppm	0.0114 ppm	0.0103 ppm	0.0054 ppm	-0.0023 ppm	0.0020 ppm
Concentration per Run 3	0.0026 ppm	1.7108 ppm	0.0107 ppm	0.0103 ppm	0.0051 ppm	-0.0007 ppm	0.0024 ppm
Concentration RSD	42.6 %	2.1 %	8.1 %	0.3 %	14.6 %	288.2 %	11.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0050 ppm	92.8524 %	104.7857 %	95.7005 %	98.5745 %	106.5660 %	100.2644 %
Concentration per Run 1	0.0054 ppm	91.9122 %	104.3142 %	94.7252 %	98.6473 %	106.3174 %	100.5985 %
Concentration per Run 2	0.0048 ppm	92.8022 %	104.9854 %	95.8725 %	98.5121 %	106.7898 %	99.9078 %
Concentration per Run 3	0.0048 ppm	93.8429 %	105.0574 %	96.5040 %	98.5640 %	106.5908 %	100.2869 %
Concentration RSD	6.9 %	1.0 %	0.4 %	0.9 %	0.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 3:00:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5192 ppm	0.4948 ppm	0.4971 ppm	0.5139 ppm	0.5128 ppm	0.5133 ppm	0.5051 ppm
Concentration per Run 1	0.5220 ppm	0.4900 ppm	0.4969 ppm	0.5170 ppm	0.5119 ppm	0.5149 ppm	0.5081 ppm
Concentration per Run 2	0.5186 ppm	0.4940 ppm	0.4967 ppm	0.5125 ppm	0.5126 ppm	0.5144 ppm	0.5058 ppm
Concentration per Run 3	0.5171 ppm	0.5005 ppm	0.4979 ppm	0.5121 ppm	0.5140 ppm	0.5106 ppm	0.5013 ppm
Recovery Percentage 1	103.844 %	98.967 %	99.427 %	102.776 %	102.567 %	102.666 %	101.014 %
Concentration RSD	0.5 %	1.1 %	0.1 %	0.5 %	0.2 %	0.5 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5232 ppm	0.5253 ppm	0.5180 ppm	0.5089 ppm	0.4989 ppm	5.0450 ppm	0.4645 ppm
Concentration per Run 1	0.5256 ppm	0.5275 ppm	0.5211 ppm	0.5117 ppm	0.5009 ppm	5.0664 ppm	0.4614 ppm
Concentration per Run 2	0.5229 ppm	0.5255 ppm	0.5174 ppm	0.5085 ppm	0.4977 ppm	5.0552 ppm	0.4671 ppm
Concentration per Run 3	0.5212 ppm	0.5228 ppm	0.5154 ppm	0.5065 ppm	0.4982 ppm	5.0133 ppm	0.4650 ppm
Recovery Percentage 1	104.647 %	105.053 %	103.597 %	101.787 %	99.786 %	100.900 %	92.898 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.5 %	0.3 %	0.6 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5096 ppm	0.4856 ppm	0.5147 ppm	10.7443 ppm	0.5329 ppm	0.5076 ppm	0.5209 ppm
Concentration per Run 1	0.5154 ppm	0.4861 ppm	0.5090 ppm	10.7515 ppm	0.5372 ppm	0.5060 ppm	0.5228 ppm
Concentration per Run 2	0.5081 ppm	0.4860 ppm	0.5154 ppm	10.7594 ppm	0.5315 ppm	0.5076 ppm	0.5176 ppm
Concentration per Run 3	0.5053 ppm	0.4846 ppm	0.5197 ppm	10.7221 ppm	0.5300 ppm	0.5090 ppm	0.5224 ppm
Recovery Percentage 1	101.921 %	97.117 %	102.937 %	107.443 %	106.576 %	101.510 %	104.184 %
Concentration RSD	1.0 %	0.2 %	1.0 %	0.2 %	0.7 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5130 ppm	5.4095 ppm	0.5357 ppm	0.5232 ppm	0.5270 ppm	0.5076 ppm	0.5186 ppm
Concentration per Run 1	0.5124 ppm	5.4362 ppm	0.5381 ppm	0.5216 ppm	0.5301 ppm	0.5048 ppm	0.5220 ppm
Concentration per Run 2	0.5140 ppm	5.4106 ppm	0.5326 ppm	0.5240 ppm	0.5268 ppm	0.5078 ppm	0.5175 ppm
Concentration per Run 3	0.5126 ppm	5.3818 ppm	0.5364 ppm	0.5241 ppm	0.5241 ppm	0.5102 ppm	0.5162 ppm
Recovery Percentage 1	102.600 %	103.039 %	107.138 %	104.644 %	105.403 %	101.520 %	103.714 %
Concentration RSD	0.2 %	0.5 %	0.5 %	0.3 %	0.6 %	0.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5340 ppm	98.7023 %	107.0691 %	98.4135 %	97.0268 %	104.5196 %	98.1753 %
Concentration per Run 1	0.5375 ppm	97.8074 %	106.4621 %	98.3721 %	96.1081 %	104.2432 %	98.2609 %
Concentration per Run 2	0.5308 ppm	99.2149 %	107.1121 %	98.3053 %	97.5788 %	104.5491 %	97.9438 %
Concentration per Run 3	0.5336 ppm	99.0844 %	107.6330 %	98.5630 %	97.3934 %	104.7663 %	98.3212 %
Recovery Percentage 1	106.794 %						
Concentration RSD	0.6 %	0.8 %	0.5 %	0.1 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 3:04:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0150 ppm	0.0000 ppm	0.0021 ppm	-0.0003 ppm	0.0001 ppm	0.0034 ppm
Concentration per Run 1	-0.0004 ppm	-0.0209 ppm	-0.0003 ppm	0.0028 ppm	-0.0002 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 2	-0.0005 ppm	-0.0080 ppm	0.0005 ppm	0.0023 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	-0.0161 ppm	-0.0001 ppm	0.0011 ppm	-0.0005 ppm	0.0001 ppm	0.0018 ppm
Recovery Percentage 1	-5.726 %	-14.993 %	1.132 %	6.880 %	-2.748 %	1.793 %	3.374 %
Concentration RSD	16.1 %	43.4 %	1,316.0 %	41.1 %	60.4 %	55.6 %	123.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0079 ppm	-0.0476 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0011 ppm	0.0085 ppm	-0.0630 ppm	-0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0003 ppm	0.0068 ppm	-0.0338 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0004 ppm	0.0084 ppm	-0.0459 ppm	-0.0031 ppm
Recovery Percentage 1	0.618 %	0.077 %	-0.670 %	5.834 %	15.797 %	-1.903 %	-32.098 %
Concentration RSD	72.2 %	3,834.8 %	236.8 %	73.5 %	12.2 %	30.8 %	19.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0002 ppm	-0.0010 ppm	0.0239 ppm	0.0004 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	0.0001 ppm	-0.0011 ppm	0.0250 ppm	0.0007 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 2	-0.0022 ppm	0.0002 ppm	-0.0010 ppm	0.0199 ppm	0.0007 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	-0.0008 ppm	0.0269 ppm	0.0000 ppm	-0.0001 ppm	0.0023 ppm
Recovery Percentage 1	-0.923 %	1.643 %	-1.937 %	1.196 %	1.797 %	-1.477 %	0.776 %
Concentration RSD	120.2 %	20.9 %	13.1 %	15.0 %	89.2 %	211.5 %	552.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	0.0074 ppm	0.0013 ppm	0.0001 ppm	0.0005 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 1	0.0014 ppm	0.0074 ppm	0.0018 ppm	0.0001 ppm	0.0004 ppm	-0.0020 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	0.0050 ppm	0.0013 ppm	0.0000 ppm	0.0005 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0030 ppm	0.0098 ppm	0.0008 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	17.994 %	1.481 %	2.623 %	0.625 %	5.337 %	-4.147 %	-0.877 %
Concentration RSD	61.2 %	32.1 %	37.4 %	82.8 %	33.5 %	167.4 %	205.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	91.9266 %	103.0457 %	94.2811 %	97.5968 %	105.5198 %	99.2718 %
Concentration per Run 1	0.0010 ppm	90.7079 %	102.3359 %	93.9897 %	97.3984 %	104.9977 %	99.7857 %
Concentration per Run 2	0.0008 ppm	91.9242 %	103.5553 %	94.1111 %	97.5527 %	106.1911 %	98.9251 %
Concentration per Run 3	0.0007 ppm	93.1478 %	103.2459 %	94.7424 %	97.8391 %	105.3705 %	99.1047 %
Recovery Percentage 1	16.668 %						
Concentration RSD	14.3 %	1.3 %	0.6 %	0.4 %	0.2 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-1 WG1935415
Analysis started at: 6/18/2024 3:32:09 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0104 ppm	-0.0025 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 1	0.0002 ppm	-0.0130 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0157 ppm
Concentration per Run 2	-0.0008 ppm	-0.0046 ppm	-0.0038 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0159 ppm
Concentration per Run 3	-0.0002 ppm	-0.0136 ppm	-0.0014 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0171 ppm
Recovery Percentage 1	-3.883 %	-10.397 %	-83.771 %	2.680 %	-0.481 %	0.165 %	16.251 %
Concentration RSD	182.7 %	48.4 %	47.3 %	42.3 %	213.1 %	291.1 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0011 ppm	-0.0005 ppm	0.0058 ppm	-0.0244 ppm	-0.0034 ppm
Concentration per Run 1	-0.0001 ppm	-0.0008 ppm	0.0012 ppm	-0.0008 ppm	0.0052 ppm	-0.0261 ppm	-0.0029 ppm
Concentration per Run 2	-0.0001 ppm	-0.0006 ppm	0.0012 ppm	-0.0002 ppm	0.0054 ppm	-0.0301 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0009 ppm	-0.0005 ppm	0.0068 ppm	-0.0170 ppm	-0.0053 ppm
Recovery Percentage 1	-2.042 %	-2.748 %	11.103 %	-4.904 %	11.671 %	-0.976 %	-34.485 %
Concentration RSD	45.5 %	40.4 %	16.4 %	58.4 %	14.6 %	27.4 %	48.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0038 ppm	0.0007 ppm	-0.0020 ppm	0.0403 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	0.0044 ppm	0.0008 ppm	-0.0016 ppm	0.0381 ppm	0.0002 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 2	0.0032 ppm	0.0007 ppm	-0.0024 ppm	0.0417 ppm	-0.0002 ppm	-0.0004 ppm	-0.0014 ppm
Concentration per Run 3	0.0039 ppm	0.0007 ppm	-0.0020 ppm	0.0413 ppm	0.0002 ppm	0.0017 ppm	-0.0003 ppm
Recovery Percentage 1	3.819 %	7.271 %	-4.026 %	2.017 %	0.358 %	5.055 %	-0.564 %
Concentration RSD	15.3 %	8.5 %	19.8 %	4.9 %	292.9 %	220.2 %	394.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0088 ppm	0.0448 ppm	0.0248 ppm	0.0000 ppm	0.0012 ppm	-0.0042 ppm	-0.0003 ppm
Concentration per Run 1	0.0091 ppm	0.0709 ppm	0.0244 ppm	0.0001 ppm	0.0020 ppm	-0.0047 ppm	-0.0001 ppm
Concentration per Run 2	0.0098 ppm	0.0399 ppm	0.0250 ppm	0.0000 ppm	0.0006 ppm	-0.0037 ppm	-0.0004 ppm
Concentration per Run 3	0.0076 ppm	0.0236 ppm	0.0250 ppm	0.0001 ppm	0.0011 ppm	-0.0043 ppm	-0.0003 ppm
Recovery Percentage 1	88.215 %	8.961 %	49.583 %	0.371 %	12.322 %	-21.014 %	-2.874 %
Concentration RSD	12.3 %	53.6 %	1.5 %	187.6 %	55.4 %	11.9 %	47.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	118.3273 %	108.5549 %	102.4829 %	103.0854 %	104.7123 %	101.2888 %
Concentration per Run 1	0.0030 ppm	123.6540 %	108.8358 %	103.4602 %	103.7207 %	104.8971 %	101.3507 %
Concentration per Run 2	0.0034 ppm	117.2302 %	108.4967 %	102.1344 %	102.3040 %	104.3350 %	101.2515 %
Concentration per Run 3	0.0036 ppm	114.0978 %	108.3324 %	101.8540 %	103.2315 %	104.9048 %	101.2641 %
Recovery Percentage 1	66.158 %						
Concentration RSD	9.6 %	4.1 %	0.2 %	0.8 %	0.7 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-2 WG1935415
Analysis started at: 6/18/2024 3:36:24 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1014 ppm	4.3473 ppm	0.2544 ppm	1.8377 ppm	4.1608 ppm	0.1051 ppm	20.2885 ppm
Concentration per Run 1	0.1014 ppm	4.3720 ppm	0.2511 ppm	1.8337 ppm	4.1662 ppm	0.1051 ppm	20.3020 ppm
Concentration per Run 2	0.1011 ppm	4.3239 ppm	0.2560 ppm	1.8388 ppm	4.1597 ppm	0.1051 ppm	20.2886 ppm
Concentration per Run 3	0.1016 ppm	4.3459 ppm	0.2562 ppm	1.8406 ppm	4.1566 ppm	0.1050 ppm	20.2748 ppm
Concentration RSD	0.3 %	0.6 %	1.1 %	0.2 %	0.1 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.1059 ppm	1.0222 ppm	0.4173 ppm	0.5315 ppm	2.0080 ppm	20.3199 ppm	-0.0030 ppm
Concentration per Run 1	0.1053 ppm	1.0195 ppm	0.4151 ppm	0.5312 ppm	2.0121 ppm	20.3312 ppm	-0.0018 ppm
Concentration per Run 2	0.1062 ppm	1.0235 ppm	0.4174 ppm	0.5340 ppm	2.0100 ppm	20.2318 ppm	-0.0020 ppm
Concentration per Run 3	0.1063 ppm	1.0236 ppm	0.4195 ppm	0.5294 ppm	2.0020 ppm	20.3967 ppm	-0.0050 ppm
Concentration RSD	0.5 %	0.2 %	0.5 %	0.4 %	0.3 %	0.4 %	59.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.3822 ppm	0.9921 ppm	2.2028 ppm	21.4814 ppm	1.0130 ppm	1.1403 ppm	0.9561 ppm
Concentration per Run 1	19.3034 ppm	0.9947 ppm	2.1816 ppm	21.4768 ppm	1.0088 ppm	1.1349 ppm	0.9562 ppm
Concentration per Run 2	19.3636 ppm	0.9899 ppm	2.2034 ppm	21.5409 ppm	1.0120 ppm	1.1495 ppm	0.9584 ppm
Concentration per Run 3	19.4797 ppm	0.9916 ppm	2.2233 ppm	21.4265 ppm	1.0182 ppm	1.1366 ppm	0.9536 ppm
Concentration RSD	0.5 %	0.2 %	0.9 %	0.3 %	0.5 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2621 ppm	1.8784 ppm	1.9801 ppm	2.0063 ppm	2.0819 ppm	0.2566 ppm	1.0655 ppm
Concentration per Run 1	0.2595 ppm	1.8884 ppm	1.9702 ppm	1.9996 ppm	2.0663 ppm	0.2562 ppm	1.0582 ppm
Concentration per Run 2	0.2645 ppm	1.8636 ppm	1.9850 ppm	2.0061 ppm	2.0859 ppm	0.2580 ppm	1.0664 ppm
Concentration per Run 3	0.2624 ppm	1.8834 ppm	1.9850 ppm	2.0133 ppm	2.0934 ppm	0.2555 ppm	1.0718 ppm
Concentration RSD	1.0 %	0.7 %	0.4 %	0.3 %	0.7 %	0.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0095 ppm	101.1912 %	105.7495 %	93.4956 %	96.2150 %	101.8584 %	95.5325 %
Concentration per Run 1	1.0057 ppm	101.0580 %	105.5655 %	94.2031 %	95.7857 %	101.9069 %	96.0538 %
Concentration per Run 2	1.0092 ppm	101.4891 %	105.6872 %	93.0719 %	96.8112 %	102.0120 %	95.4585 %
Concentration per Run 3	1.0136 ppm	101.0265 %	105.9956 %	93.2118 %	96.0481 %	101.6562 %	95.0853 %
Concentration RSD	0.4 %	0.3 %	0.2 %	0.7 %	0.6 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433115-01 WG1935415
Analysis started at: 6/18/2024 3:40:22 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0015 ppm	-0.0015 ppm	0.0020 ppm	0.0018 ppm	0.0000 ppm	0.4745 ppm
Concentration per Run 1	-0.0003 ppm	-0.0020 ppm	-0.0014 ppm	0.0033 ppm	0.0019 ppm	0.0000 ppm	0.4763 ppm
Concentration per Run 2	0.0000 ppm	-0.0058 ppm	-0.0004 ppm	0.0016 ppm	0.0018 ppm	0.0001 ppm	0.4739 ppm
Concentration per Run 3	-0.0002 ppm	0.0124 ppm	-0.0028 ppm	0.0012 ppm	0.0017 ppm	0.0000 ppm	0.4732 ppm
Concentration RSD	72.3 %	641.9 %	79.3 %	56.2 %	5.8 %	93.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0016 ppm	0.0031 ppm	0.1555 ppm	0.0685 ppm	-0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0016 ppm	0.0030 ppm	0.1565 ppm	0.0670 ppm	-0.0030 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0022 ppm	0.0030 ppm	0.1534 ppm	0.0786 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0012 ppm	0.0031 ppm	0.1567 ppm	0.0599 ppm	-0.0022 ppm
Concentration RSD	873.4 %	43.3 %	31.0 %	2.4 %	1.2 %	13.8 %	31.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0727 ppm	0.0113 ppm	-0.0002 ppm	0.2559 ppm	0.0011 ppm	0.0028 ppm	-0.0006 ppm
Concentration per Run 1	0.0727 ppm	0.0113 ppm	0.0003 ppm	0.2641 ppm	0.0018 ppm	0.0030 ppm	-0.0032 ppm
Concentration per Run 2	0.0751 ppm	0.0112 ppm	-0.0003 ppm	0.2533 ppm	0.0016 ppm	0.0023 ppm	0.0014 ppm
Concentration per Run 3	0.0703 ppm	0.0113 ppm	-0.0005 ppm	0.2501 ppm	-0.0002 ppm	0.0031 ppm	0.0002 ppm
Concentration RSD	3.3 %	0.6 %	233.8 %	2.9 %	100.9 %	15.6 %	423.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	0.0861 ppm	0.0247 ppm	0.0009 ppm	0.0018 ppm	-0.0036 ppm	-0.0003 ppm
Concentration per Run 1	0.0032 ppm	0.0886 ppm	0.0242 ppm	0.0007 ppm	0.0019 ppm	-0.0029 ppm	-0.0003 ppm
Concentration per Run 2	0.0052 ppm	0.0814 ppm	0.0248 ppm	0.0011 ppm	0.0018 ppm	-0.0049 ppm	-0.0004 ppm
Concentration per Run 3	0.0023 ppm	0.0882 ppm	0.0250 ppm	0.0009 ppm	0.0018 ppm	-0.0028 ppm	-0.0003 ppm
Concentration RSD	42.1 %	4.7 %	1.8 %	18.4 %	4.0 %	33.0 %	21.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0566 ppm	102.0140 %	109.4492 %	98.8632 %	99.4477 %	107.0144 %	99.9538 %
Concentration per Run 1	0.0565 ppm	101.2162 %	110.1227 %	98.8431 %	98.4994 %	107.7636 %	100.0019 %
Concentration per Run 2	0.0571 ppm	102.4460 %	109.7076 %	98.5156 %	100.2299 %	106.9648 %	99.6501 %
Concentration per Run 3	0.0564 ppm	102.3798 %	108.5173 %	99.2309 %	99.6139 %	106.3150 %	100.2093 %
Concentration RSD	0.7 %	0.7 %	0.8 %	0.4 %	0.9 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433120-01 WG1935415
Analysis started at: 6/18/2024 3:44:21 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0013 ppm	-0.0004 ppm	0.0018 ppm	0.0014 ppm	0.0000 ppm	0.3878 ppm
Concentration per Run 1	0.0005 ppm	0.0010 ppm	0.0018 ppm	0.0020 ppm	0.0014 ppm	0.0000 ppm	0.3873 ppm
Concentration per Run 2	0.0001 ppm	-0.0033 ppm	-0.0019 ppm	0.0019 ppm	0.0015 ppm	0.0000 ppm	0.3870 ppm
Concentration per Run 3	0.0003 ppm	-0.0015 ppm	-0.0011 ppm	0.0015 ppm	0.0013 ppm	0.0000 ppm	0.3890 ppm
Concentration RSD	64.5 %	170.4 %	449.7 %	14.0 %	6.2 %	29.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0009 ppm	0.0016 ppm	0.0022 ppm	0.0409 ppm	0.0467 ppm	-0.0035 ppm
Concentration per Run 1	-0.0001 ppm	-0.0009 ppm	0.0016 ppm	0.0023 ppm	0.0407 ppm	0.0437 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0016 ppm	0.0022 ppm	0.0422 ppm	0.0382 ppm	-0.0027 ppm
Concentration per Run 3	-0.0001 ppm	-0.0011 ppm	0.0016 ppm	0.0020 ppm	0.0397 ppm	0.0583 ppm	-0.0035 ppm
Concentration RSD	75.0 %	24.7 %	0.7 %	5.6 %	3.1 %	22.2 %	22.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0609 ppm	0.0103 ppm	-0.0028 ppm	0.2019 ppm	-0.0002 ppm	0.0028 ppm	0.0006 ppm
Concentration per Run 1	0.0598 ppm	0.0103 ppm	-0.0027 ppm	0.2005 ppm	-0.0005 ppm	0.0025 ppm	-0.0016 ppm
Concentration per Run 2	0.0614 ppm	0.0104 ppm	-0.0028 ppm	0.2018 ppm	0.0000 ppm	0.0038 ppm	-0.0005 ppm
Concentration per Run 3	0.0614 ppm	0.0102 ppm	-0.0029 ppm	0.2033 ppm	0.0000 ppm	0.0021 ppm	0.0039 ppm
Concentration RSD	1.5 %	1.0 %	3.5 %	0.7 %	146.4 %	31.4 %	490.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0612 ppm	0.0214 ppm	0.0009 ppm	0.0044 ppm	-0.0040 ppm	-0.0003 ppm
Concentration per Run 1	0.0025 ppm	0.0672 ppm	0.0203 ppm	0.0009 ppm	0.0107 ppm	-0.0026 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0578 ppm	0.0232 ppm	0.0010 ppm	0.0015 ppm	-0.0050 ppm	-0.0001 ppm
Concentration per Run 3	0.0044 ppm	0.0587 ppm	0.0208 ppm	0.0009 ppm	0.0011 ppm	-0.0044 ppm	-0.0005 ppm
Concentration RSD	99.4 %	8.5 %	7.4 %	6.7 %	122.5 %	31.6 %	57.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1675 ppm	102.3300 %	110.6093 %	98.7506 %	99.0114 %	107.7133 %	99.7380 %
Concentration per Run 1	0.1673 ppm	101.7780 %	110.0614 %	98.3337 %	98.7228 %	107.1571 %	99.3231 %
Concentration per Run 2	0.1676 ppm	102.7012 %	111.8368 %	98.9431 %	99.1565 %	108.8518 %	99.8417 %
Concentration per Run 3	0.1677 ppm	102.5108 %	109.9296 %	98.9751 %	99.1549 %	107.1310 %	100.0492 %
Concentration RSD	0.1 %	0.5 %	1.0 %	0.4 %	0.3 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432812-03d2 WG1935415
Analysis started at: 6/18/2024 3:48:21 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0080 ppm	0.0002 ppm	0.0021 ppm	0.0116 ppm	0.0000 ppm	0.2271 ppm
Concentration per Run 1	0.0007 ppm	0.0117 ppm	0.0017 ppm	0.0028 ppm	0.0116 ppm	0.0000 ppm	0.2276 ppm
Concentration per Run 2	0.0002 ppm	0.0055 ppm	-0.0009 ppm	0.0010 ppm	0.0117 ppm	0.0000 ppm	0.2279 ppm
Concentration per Run 3	0.0000 ppm	0.0069 ppm	-0.0001 ppm	0.0024 ppm	0.0116 ppm	0.0000 ppm	0.2257 ppm
Concentration RSD	108.7 %	40.7 %	606.9 %	47.8 %	0.3 %	243.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0072 ppm	0.0021 ppm	0.1541 ppm	0.0219 ppm	-0.0023 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0075 ppm	0.0022 ppm	0.1538 ppm	0.0169 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0070 ppm	0.0021 ppm	0.1556 ppm	0.0271 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0071 ppm	0.0021 ppm	0.1528 ppm	0.0218 ppm	-0.0049 ppm
Concentration RSD	128.3 %	52.0 %	3.8 %	3.1 %	0.9 %	23.1 %	112.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0355 ppm	0.0061 ppm	-0.0026 ppm	0.1303 ppm	0.0400 ppm	0.0252 ppm	-0.0023 ppm
Concentration per Run 1	0.0346 ppm	0.0062 ppm	-0.0028 ppm	0.1286 ppm	0.0394 ppm	0.0259 ppm	-0.0016 ppm
Concentration per Run 2	0.0349 ppm	0.0061 ppm	-0.0021 ppm	0.1302 ppm	0.0395 ppm	0.0250 ppm	-0.0028 ppm
Concentration per Run 3	0.0372 ppm	0.0061 ppm	-0.0029 ppm	0.1321 ppm	0.0410 ppm	0.0248 ppm	-0.0026 ppm
Concentration RSD	4.0 %	1.3 %	17.0 %	1.4 %	2.2 %	2.3 %	27.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	0.0375 ppm	0.0139 ppm	0.0012 ppm	0.0020 ppm	-0.0016 ppm	0.0506 ppm
Concentration per Run 1	0.0034 ppm	0.0364 ppm	0.0139 ppm	0.0010 ppm	0.0019 ppm	-0.0034 ppm	0.0508 ppm
Concentration per Run 2	0.0052 ppm	0.0393 ppm	0.0138 ppm	0.0012 ppm	0.0022 ppm	-0.0017 ppm	0.0505 ppm
Concentration per Run 3	0.0037 ppm	0.0369 ppm	0.0142 ppm	0.0013 ppm	0.0018 ppm	0.0002 ppm	0.0504 ppm
Concentration RSD	23.5 %	4.1 %	1.4 %	10.6 %	9.8 %	107.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0210 ppm	100.1309 %	109.0616 %	98.6553 %	99.4428 %	107.2914 %	100.1047 %
Concentration per Run 1	0.0212 ppm	99.5076 %	108.6999 %	98.5079 %	99.4262 %	107.3429 %	100.0741 %
Concentration per Run 2	0.0209 ppm	100.2870 %	109.4321 %	98.6811 %	99.4847 %	107.8197 %	100.0404 %
Concentration per Run 3	0.0209 ppm	100.5982 %	109.0529 %	98.7769 %	99.4174 %	106.7115 %	100.1995 %
Concentration RSD	0.8 %	0.6 %	0.3 %	0.1 %	0.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-3d2 WG1935415
Analysis started at: 6/18/2024 3:52:19 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0423 ppm	1.7549 ppm	0.1010 ppm	0.8345 ppm	1.6902 ppm	0.0424 ppm	8.3116 ppm
Concentration per Run 1	0.0424 ppm	1.7748 ppm	0.1023 ppm	0.8388 ppm	1.6932 ppm	0.0424 ppm	8.3261 ppm
Concentration per Run 2	0.0424 ppm	1.7418 ppm	0.0997 ppm	0.8356 ppm	1.6873 ppm	0.0426 ppm	8.3048 ppm
Concentration per Run 3	0.0423 ppm	1.7482 ppm	0.1009 ppm	0.8293 ppm	1.6901 ppm	0.0424 ppm	8.3038 ppm
Concentration RSD	0.2 %	1.0 %	1.3 %	0.6 %	0.2 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0448 ppm	0.4299 ppm	0.1757 ppm	0.2216 ppm	0.8578 ppm	8.1827 ppm	-0.0029 ppm
Concentration per Run 1	0.0451 ppm	0.4324 ppm	0.1769 ppm	0.2221 ppm	0.8587 ppm	8.2410 ppm	-0.0022 ppm
Concentration per Run 2	0.0448 ppm	0.4279 ppm	0.1757 ppm	0.2218 ppm	0.8568 ppm	8.0813 ppm	-0.0032 ppm
Concentration per Run 3	0.0444 ppm	0.4293 ppm	0.1745 ppm	0.2208 ppm	0.8578 ppm	8.2257 ppm	-0.0032 ppm
Concentration RSD	0.7 %	0.5 %	0.7 %	0.3 %	0.1 %	1.1 %	19.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.2702 ppm	0.4005 ppm	0.9003 ppm	8.8608 ppm	0.4393 ppm	0.4674 ppm	0.4160 ppm
Concentration per Run 1	8.3370 ppm	0.4017 ppm	0.8976 ppm	8.8424 ppm	0.4418 ppm	0.4674 ppm	0.4198 ppm
Concentration per Run 2	8.2656 ppm	0.4001 ppm	0.9001 ppm	8.8816 ppm	0.4398 ppm	0.4685 ppm	0.4176 ppm
Concentration per Run 3	8.2080 ppm	0.3999 ppm	0.9033 ppm	8.8585 ppm	0.4363 ppm	0.4664 ppm	0.4107 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.2 %	0.6 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1054 ppm	0.8210 ppm	0.8290 ppm	0.8231 ppm	0.8658 ppm	0.1033 ppm	0.4663 ppm
Concentration per Run 1	0.1057 ppm	0.8209 ppm	0.8260 ppm	0.8204 ppm	0.8730 ppm	0.1039 ppm	0.4702 ppm
Concentration per Run 2	0.1044 ppm	0.8220 ppm	0.8339 ppm	0.8257 ppm	0.8659 ppm	0.1046 ppm	0.4658 ppm
Concentration per Run 3	0.1060 ppm	0.8201 ppm	0.8273 ppm	0.8233 ppm	0.8584 ppm	0.1013 ppm	0.4630 ppm
Concentration RSD	0.8 %	0.1 %	0.5 %	0.3 %	0.8 %	1.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4265 ppm	100.3664 %	110.6878 %	97.6704 %	98.8724 %	108.1234 %	98.9544 %
Concentration per Run 1	0.4288 ppm	99.5587 %	110.0679 %	97.5941 %	98.6170 %	107.6239 %	99.0542 %
Concentration per Run 2	0.4277 ppm	100.1801 %	110.8175 %	97.2815 %	98.4430 %	108.2863 %	98.5177 %
Concentration per Run 3	0.4230 ppm	101.3605 %	111.1779 %	98.1357 %	99.5572 %	108.4600 %	99.2912 %
Concentration RSD	0.7 %	0.9 %	0.5 %	0.4 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-4d2 WG1935415
Analysis started at: 6/18/2024 3:56:17 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0297 ppm	-0.0021 ppm	0.0020 ppm	0.0125 ppm	0.0000 ppm	0.3558 ppm
Concentration per Run 1	-0.0002 ppm	0.0299 ppm	-0.0025 ppm	0.0039 ppm	0.0125 ppm	0.0000 ppm	0.3569 ppm
Concentration per Run 2	0.0001 ppm	0.0337 ppm	-0.0018 ppm	0.0002 ppm	0.0124 ppm	0.0000 ppm	0.3516 ppm
Concentration per Run 3	-0.0001 ppm	0.0254 ppm	-0.0020 ppm	0.0019 ppm	0.0125 ppm	0.0001 ppm	0.3589 ppm
Concentration RSD	179.0 %	14.0 %	15.6 %	90.8 %	0.4 %	57.6 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0077 ppm	0.0027 ppm	0.1609 ppm	0.0275 ppm	-0.0027 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0077 ppm	0.0025 ppm	0.1617 ppm	0.0333 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0076 ppm	0.0029 ppm	0.1605 ppm	0.0357 ppm	-0.0037 ppm
Concentration per Run 3	-0.0002 ppm	-0.0006 ppm	0.0077 ppm	0.0028 ppm	0.1605 ppm	0.0134 ppm	-0.0024 ppm
Concentration RSD	203.4 %	126.6 %	0.7 %	8.9 %	0.4 %	44.6 %	30.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0544 ppm	0.0077 ppm	-0.0006 ppm	0.1988 ppm	0.0411 ppm	0.0265 ppm	0.0003 ppm
Concentration per Run 1	0.0541 ppm	0.0076 ppm	-0.0002 ppm	0.1985 ppm	0.0415 ppm	0.0276 ppm	0.0034 ppm
Concentration per Run 2	0.0542 ppm	0.0078 ppm	-0.0005 ppm	0.1954 ppm	0.0410 ppm	0.0254 ppm	0.0012 ppm
Concentration per Run 3	0.0547 ppm	0.0078 ppm	-0.0011 ppm	0.2025 ppm	0.0409 ppm	0.0266 ppm	-0.0037 ppm
Concentration RSD	0.6 %	1.4 %	84.8 %	1.8 %	0.7 %	4.1 %	1,137.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0046 ppm	0.0429 ppm	0.0118 ppm	0.0017 ppm	0.0022 ppm	-0.0036 ppm	0.0510 ppm
Concentration per Run 1	0.0042 ppm	0.0432 ppm	0.0133 ppm	0.0016 ppm	0.0022 ppm	-0.0045 ppm	0.0515 ppm
Concentration per Run 2	0.0062 ppm	0.0401 ppm	0.0109 ppm	0.0017 ppm	0.0021 ppm	-0.0015 ppm	0.0506 ppm
Concentration per Run 3	0.0033 ppm	0.0454 ppm	0.0112 ppm	0.0017 ppm	0.0021 ppm	-0.0049 ppm	0.0509 ppm
Concentration RSD	32.8 %	6.2 %	10.8 %	3.2 %	2.6 %	50.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0226 ppm	99.9333 %	109.6197 %	99.0383 %	99.0052 %	107.5859 %	100.2452 %
Concentration per Run 1	0.0229 ppm	98.8466 %	109.1007 %	98.9240 %	98.4346 %	107.1963 %	100.3709 %
Concentration per Run 2	0.0224 ppm	100.1704 %	109.3790 %	99.2354 %	99.3073 %	107.6088 %	100.4598 %
Concentration per Run 3	0.0224 ppm	100.7828 %	110.3792 %	98.9554 %	99.2736 %	107.9524 %	99.9048 %
Concentration RSD	1.2 %	1.0 %	0.6 %	0.2 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-5d2 WG1935415
Analysis started at: 6/18/2024 4:00:15 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0482 ppm	1.9171 ppm	0.1179 ppm	0.9443 ppm	1.9240 ppm	0.0479 ppm	9.9797 ppm
Concentration per Run 1	0.0483 ppm	1.9163 ppm	0.1181 ppm	0.9508 ppm	1.9153 ppm	0.0481 ppm	9.9949 ppm
Concentration per Run 2	0.0481 ppm	1.9194 ppm	0.1173 ppm	0.9417 ppm	1.9299 ppm	0.0478 ppm	9.9587 ppm
Concentration per Run 3	0.0481 ppm	1.9157 ppm	0.1183 ppm	0.9405 ppm	1.9270 ppm	0.0479 ppm	9.9857 ppm
Concentration RSD	0.3 %	0.1 %	0.5 %	0.6 %	0.4 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0517 ppm	0.4828 ppm	0.2000 ppm	0.2514 ppm	1.0737 ppm	9.8249 ppm	-0.0036 ppm
Concentration per Run 1	0.0519 ppm	0.4848 ppm	0.2009 ppm	0.2515 ppm	1.0754 ppm	9.8361 ppm	-0.0038 ppm
Concentration per Run 2	0.0518 ppm	0.4823 ppm	0.2000 ppm	0.2520 ppm	1.0762 ppm	9.8070 ppm	-0.0036 ppm
Concentration per Run 3	0.0514 ppm	0.4813 ppm	0.1992 ppm	0.2508 ppm	1.0694 ppm	9.8314 ppm	-0.0035 ppm
Concentration RSD	0.5 %	0.4 %	0.4 %	0.2 %	0.3 %	0.2 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7427 ppm	0.4680 ppm	1.0592 ppm	10.5086 ppm	0.5289 ppm	0.5622 ppm	0.4199 ppm
Concentration per Run 1	9.8011 ppm	0.4679 ppm	1.0550 ppm	10.5576 ppm	0.5327 ppm	0.5645 ppm	0.4144 ppm
Concentration per Run 2	9.7399 ppm	0.4669 ppm	1.0544 ppm	10.4839 ppm	0.5265 ppm	0.5599 ppm	0.4175 ppm
Concentration per Run 3	9.6871 ppm	0.4693 ppm	1.0680 ppm	10.4843 ppm	0.5276 ppm	0.5623 ppm	0.4278 ppm
Concentration RSD	0.6 %	0.3 %	0.7 %	0.4 %	0.6 %	0.4 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1215 ppm	0.9298 ppm	0.9784 ppm	0.9730 ppm	1.0126 ppm	0.1214 ppm	0.5452 ppm
Concentration per Run 1	0.1222 ppm	0.9347 ppm	0.9757 ppm	0.9742 ppm	1.0188 ppm	0.1205 ppm	0.5477 ppm
Concentration per Run 2	0.1210 ppm	0.9285 ppm	0.9735 ppm	0.9708 ppm	1.0081 ppm	0.1209 ppm	0.5442 ppm
Concentration per Run 3	0.1213 ppm	0.9262 ppm	0.9861 ppm	0.9739 ppm	1.0110 ppm	0.1228 ppm	0.5437 ppm
Concentration RSD	0.5 %	0.5 %	0.7 %	0.2 %	0.5 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5069 ppm	100.3809 %	109.5152 %	97.1014 %	98.3742 %	106.6549 %	98.3394 %
Concentration per Run 1	0.5094 ppm	99.6144 %	108.6956 %	96.6179 %	97.8249 %	106.4124 %	98.1403 %
Concentration per Run 2	0.5059 ppm	100.1717 %	109.7885 %	97.5277 %	98.5673 %	106.6452 %	98.7796 %
Concentration per Run 3	0.5053 ppm	101.3566 %	110.0614 %	97.1587 %	98.7303 %	106.9071 %	98.0984 %
Concentration RSD	0.4 %	0.9 %	0.7 %	0.5 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935415-6d10 WG1935415
Analysis started at: 6/18/2024 4:04:13 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0106 ppm	-0.0015 ppm	0.0007 ppm	0.0023 ppm	0.0000 ppm	0.0499 ppm
Concentration per Run 1	-0.0004 ppm	-0.0129 ppm	-0.0020 ppm	0.0008 ppm	0.0020 ppm	0.0000 ppm	0.0493 ppm
Concentration per Run 2	-0.0006 ppm	0.0006 ppm	-0.0016 ppm	0.0010 ppm	0.0024 ppm	0.0001 ppm	0.0503 ppm
Concentration per Run 3	-0.0001 ppm	-0.0195 ppm	-0.0008 ppm	0.0003 ppm	0.0024 ppm	0.0000 ppm	0.0502 ppm
Concentration RSD	65.0 %	96.7 %	40.8 %	48.8 %	9.8 %	57.9 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0011 ppm	0.0314 ppm	-0.0269 ppm	-0.0031 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0012 ppm	0.0296 ppm	-0.0268 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0336 ppm	-0.0564 ppm	-0.0031 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	0.0016 ppm	0.0010 ppm	0.0310 ppm	0.0025 ppm	-0.0022 ppm
Concentration RSD	55.9 %	88.8 %	13.9 %	8.5 %	6.4 %	109.5 %	28.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0081 ppm	0.0016 ppm	-0.0015 ppm	0.0473 ppm	0.0088 ppm	0.0047 ppm	0.0042 ppm
Concentration per Run 1	0.0083 ppm	0.0017 ppm	-0.0008 ppm	0.0465 ppm	0.0086 ppm	0.0048 ppm	0.0021 ppm
Concentration per Run 2	0.0087 ppm	0.0015 ppm	-0.0019 ppm	0.0475 ppm	0.0092 ppm	0.0041 ppm	0.0052 ppm
Concentration per Run 3	0.0072 ppm	0.0016 ppm	-0.0016 ppm	0.0478 ppm	0.0084 ppm	0.0051 ppm	0.0053 ppm
Concentration RSD	9.6 %	6.9 %	38.2 %	1.4 %	4.9 %	10.9 %	43.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	0.0067 ppm	0.0051 ppm	0.0002 ppm	0.0017 ppm	-0.0015 ppm	0.0101 ppm
Concentration per Run 1	0.0015 ppm	0.0042 ppm	0.0049 ppm	0.0002 ppm	0.0012 ppm	-0.0007 ppm	0.0103 ppm
Concentration per Run 2	0.0043 ppm	0.0064 ppm	0.0056 ppm	0.0002 ppm	0.0028 ppm	-0.0012 ppm	0.0102 ppm
Concentration per Run 3	0.0037 ppm	0.0095 ppm	0.0048 ppm	0.0002 ppm	0.0009 ppm	-0.0025 ppm	0.0099 ppm
Concentration RSD	46.2 %	39.4 %	8.5 %	19.3 %	61.7 %	61.8 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0055 ppm	96.6809 %	110.4011 %	97.8645 %	100.0777 %	110.1885 %	101.3075 %
Concentration per Run 1	0.0057 ppm	95.1098 %	110.0671 %	97.1557 %	99.5438 %	110.3617 %	101.0587 %
Concentration per Run 2	0.0054 ppm	97.5047 %	110.6659 %	98.2980 %	100.9798 %	110.5360 %	101.8192 %
Concentration per Run 3	0.0055 ppm	97.4283 %	110.4703 %	98.1399 %	99.7095 %	109.6679 %	101.0445 %
Concentration RSD	2.8 %	1.4 %	0.3 %	0.6 %	0.8 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 4:08:12 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5234 ppm	0.5042 ppm	0.5017 ppm	0.5154 ppm	0.5136 ppm	0.5137 ppm	0.5060 ppm
Concentration per Run 1	0.5258 ppm	0.5169 ppm	0.5008 ppm	0.5153 ppm	0.5129 ppm	0.5122 ppm	0.5080 ppm
Concentration per Run 2	0.5230 ppm	0.5012 ppm	0.5000 ppm	0.5163 ppm	0.5147 ppm	0.5129 ppm	0.5052 ppm
Concentration per Run 3	0.5212 ppm	0.4946 ppm	0.5042 ppm	0.5146 ppm	0.5131 ppm	0.5161 ppm	0.5047 ppm
Recovery Percentage 1	104.674 %	100.850 %	100.336 %	103.079 %	102.713 %	102.742 %	101.195 %
Concentration RSD	0.4 %	2.3 %	0.4 %	0.2 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5260 ppm	0.5259 ppm	0.5183 ppm	0.5125 ppm	0.4990 ppm	5.1085 ppm	0.4728 ppm
Concentration per Run 1	0.5280 ppm	0.5271 ppm	0.5204 ppm	0.5161 ppm	0.4989 ppm	5.1871 ppm	0.4794 ppm
Concentration per Run 2	0.5245 ppm	0.5267 ppm	0.5175 ppm	0.5125 ppm	0.5043 ppm	5.0743 ppm	0.4668 ppm
Concentration per Run 3	0.5254 ppm	0.5239 ppm	0.5169 ppm	0.5088 ppm	0.4937 ppm	5.0640 ppm	0.4723 ppm
Recovery Percentage 1	105.196 %	105.183 %	103.653 %	102.494 %	99.794 %	102.170 %	94.567 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.7 %	1.1 %	1.3 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5137 ppm	0.4879 ppm	0.5144 ppm	10.7150 ppm	0.5341 ppm	0.5133 ppm	0.5137 ppm
Concentration per Run 1	0.5154 ppm	0.4890 ppm	0.5075 ppm	10.7169 ppm	0.5332 ppm	0.5115 ppm	0.5151 ppm
Concentration per Run 2	0.5115 ppm	0.4890 ppm	0.5131 ppm	10.7365 ppm	0.5373 ppm	0.5129 ppm	0.5130 ppm
Concentration per Run 3	0.5141 ppm	0.4858 ppm	0.5226 ppm	10.6916 ppm	0.5317 ppm	0.5153 ppm	0.5130 ppm
Recovery Percentage 1	102.738 %	97.589 %	102.879 %	107.150 %	106.814 %	102.651 %	102.737 %
Concentration RSD	0.4 %	0.4 %	1.5 %	0.2 %	0.5 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5184 ppm	5.4503 ppm	0.5314 ppm	0.5199 ppm	0.5299 ppm	0.5131 ppm	0.5208 ppm
Concentration per Run 1	0.5181 ppm	5.4788 ppm	0.5270 ppm	0.5181 ppm	0.5315 ppm	0.5087 ppm	0.5221 ppm
Concentration per Run 2	0.5196 ppm	5.4354 ppm	0.5327 ppm	0.5208 ppm	0.5300 ppm	0.5157 ppm	0.5210 ppm
Concentration per Run 3	0.5176 ppm	5.4368 ppm	0.5345 ppm	0.5207 ppm	0.5281 ppm	0.5150 ppm	0.5192 ppm
Recovery Percentage 1	103.685 %	103.816 %	106.278 %	103.974 %	105.973 %	102.625 %	104.150 %
Concentration RSD	0.2 %	0.5 %	0.7 %	0.3 %	0.3 %	0.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5339 ppm	99.5271 %	108.4017 %	99.7158 %	97.5576 %	105.9434 %	99.2745 %
Concentration per Run 1	0.5352 ppm	99.2311 %	108.5805 %	99.3513 %	97.6610 %	106.1487 %	98.9788 %
Concentration per Run 2	0.5338 ppm	99.6466 %	107.9865 %	99.7479 %	97.5543 %	105.6283 %	99.2179 %
Concentration per Run 3	0.5326 ppm	99.7036 %	108.6382 %	100.0481 %	97.4575 %	106.0531 %	99.6269 %
Recovery Percentage 1	106.779 %						
Concentration RSD	0.2 %	0.3 %	0.3 %	0.4 %	0.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 4:12:10 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0137 ppm	0.0000 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 1	0.0000 ppm	-0.0130 ppm	-0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	-0.0141 ppm	-0.0009 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 3	-0.0003 ppm	-0.0141 ppm	0.0011 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0056 ppm
Recovery Percentage 1	-1.875 %	-13.737 %	-1.618 %	2.512 %	-1.146 %	1.056 %	3.941 %
Concentration RSD	110.1 %	4.4 %	2,103.9 %	103.6 %	199.3 %	69.9 %	70.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0082 ppm	-0.0388 ppm	-0.0035 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0080 ppm	-0.0207 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0003 ppm	0.0007 ppm	0.0086 ppm	-0.0190 ppm	-0.0032 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0079 ppm	-0.0767 ppm	-0.0041 ppm
Recovery Percentage 1	1.940 %	-1.643 %	-0.665 %	5.117 %	16.338 %	-1.551 %	-34.519 %
Concentration RSD	87.3 %	70.5 %	376.0 %	31.5 %	4.3 %	84.6 %	15.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0003 ppm	-0.0013 ppm	0.0263 ppm	0.0002 ppm	-0.0010 ppm	0.0015 ppm
Concentration per Run 1	0.0017 ppm	0.0004 ppm	-0.0010 ppm	0.0250 ppm	0.0003 ppm	-0.0013 ppm	-0.0037 ppm
Concentration per Run 2	-0.0013 ppm	0.0001 ppm	-0.0019 ppm	0.0231 ppm	0.0011 ppm	-0.0005 ppm	0.0055 ppm
Concentration per Run 3	-0.0037 ppm	0.0003 ppm	-0.0009 ppm	0.0308 ppm	-0.0007 ppm	-0.0014 ppm	0.0027 ppm
Recovery Percentage 1	-1.121 %	2.527 %	-2.509 %	1.315 %	0.976 %	-10.389 %	2.998 %
Concentration RSD	243.7 %	58.7 %	42.4 %	15.1 %	368.7 %	48.9 %	317.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0068 ppm	0.0008 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0042 ppm	0.0170 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0032 ppm	0.0024 ppm	0.0006 ppm	0.0001 ppm	0.0010 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.0010 ppm	0.0014 ppm	-0.0002 ppm	0.0009 ppm	0.0011 ppm	-0.0004 ppm
Recovery Percentage 1	26.687 %	1.354 %	1.525 %	-0.072 %	8.397 %	2.657 %	-1.627 %
Concentration RSD	70.2 %	130.7 %	73.8 %	2,246.3 %	28.6 %	144.5 %	143.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	92.3837 %	104.0481 %	94.6713 %	99.1795 %	106.9915 %	100.3453 %
Concentration per Run 1	0.0009 ppm	91.0228 %	103.3030 %	94.2209 %	98.7082 %	106.7253 %	100.2444 %
Concentration per Run 2	0.0009 ppm	92.9590 %	104.8379 %	94.4951 %	99.8077 %	107.7925 %	100.4049 %
Concentration per Run 3	0.0007 ppm	93.1695 %	104.0035 %	95.2979 %	99.0228 %	106.4566 %	100.3866 %
Recovery Percentage 1	17.011 %						
Concentration RSD	15.6 %	1.3 %	0.7 %	0.6 %	0.6 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-1 WG1935620
Analysis started at: 6/18/2024 4:24:42 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0022 ppm	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0273 ppm
Concentration per Run 1	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0326 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	-0.0006 ppm	-0.0012 ppm	-0.0002 ppm	0.0001 ppm	0.0231 ppm
Concentration per Run 3	-0.0002 ppm	-0.0057 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0261 ppm
Recovery Percentage 1	-3.122 %	-2.198 %	-7.262 %	-0.218 %	-0.576 %	1.014 %	27.266 %
Concentration RSD	70.8 %	140.0 %	167.9 %	1,590.9 %	285.9 %	62.0 %	17.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0022 ppm	0.0017 ppm	2.0123 ppm	-0.0261 ppm	-0.0034 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	0.0022 ppm	0.0014 ppm	1.9919 ppm	-0.0444 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0018 ppm	0.0019 ppm	2.0078 ppm	-0.0343 ppm	-0.0042 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0026 ppm	0.0019 ppm	2.0371 ppm	0.0004 ppm	-0.0029 ppm
Recovery Percentage 1	-1.792 %	4.429 %	22.302 %	17.287 %	4,024.527 %	-1.045 %	-34.048 %
Concentration RSD	41.3 %	22.8 %	17.9 %	15.7 %	1.1 %	89.9 %	20.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0063 ppm	0.0167 ppm	-0.0028 ppm	0.0474 ppm	0.0479 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 1	0.0069 ppm	0.0166 ppm	-0.0025 ppm	0.0481 ppm	0.0452 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 2	0.0053 ppm	0.0168 ppm	-0.0029 ppm	0.0468 ppm	0.0480 ppm	-0.0006 ppm	0.0016 ppm
Concentration per Run 3	0.0066 ppm	0.0168 ppm	-0.0029 ppm	0.0474 ppm	0.0504 ppm	0.0001 ppm	0.0036 ppm
Recovery Percentage 1	6.267 %	167.355 %	-5.526 %	2.371 %	191.407 %	-0.975 %	4.915 %
Concentration RSD	13.1 %	0.6 %	7.6 %	1.4 %	5.5 %	492.2 %	43.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.0391 ppm	0.0014 ppm	0.0000 ppm	0.0016 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run 1	0.0014 ppm	0.0608 ppm	0.0023 ppm	0.0000 ppm	0.0020 ppm	-0.0013 ppm	-0.0003 ppm
Concentration per Run 2	0.0023 ppm	0.0248 ppm	0.0007 ppm	-0.0001 ppm	0.0015 ppm	-0.0020 ppm	-0.0001 ppm
Concentration per Run 3	0.0020 ppm	0.0318 ppm	0.0011 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	18.607 %	7.829 %	2.775 %	-0.318 %	15.839 %	-5.331 %	-2.533 %
Concentration RSD	24.7 %	48.8 %	60.7 %	270.2 %	26.0 %	96.8 %	62.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	122.8782 %	108.1360 %	109.4155 %	102.7999 %	103.1790 %	101.7970 %
Concentration per Run 1	0.0012 ppm	127.8875 %	103.7718 %	110.6121 %	102.5060 %	100.0440 %	101.7863 %
Concentration per Run 2	0.0010 ppm	121.7381 %	110.7280 %	109.5014 %	102.4458 %	104.7046 %	101.7826 %
Concentration per Run 3	0.0009 ppm	119.0089 %	109.9082 %	108.1330 %	103.4477 %	104.7884 %	101.8221 %
Recovery Percentage 1	21.347 %						
Concentration RSD	14.0 %	3.7 %	3.5 %	1.1 %	0.5 %	2.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-2d2 WG1935620
Analysis started at: 6/18/2024 4:29:01 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0525 ppm	2.1179 ppm	0.1229 ppm	1.0200 ppm	2.0448 ppm	0.0514 ppm	10.0183 ppm
Concentration per Run 1	0.0530 ppm	2.1127 ppm	0.1237 ppm	1.0263 ppm	2.0307 ppm	0.0515 ppm	10.0178 ppm
Concentration per Run 2	0.0525 ppm	2.1281 ppm	0.1240 ppm	1.0165 ppm	2.0585 ppm	0.0514 ppm	10.0195 ppm
Concentration per Run 3	0.0521 ppm	2.1129 ppm	0.1211 ppm	1.0172 ppm	2.0452 ppm	0.0513 ppm	10.0176 ppm
Concentration RSD	0.9 %	0.4 %	1.3 %	0.5 %	0.7 %	0.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0551 ppm	0.5242 ppm	0.2178 ppm	0.2640 ppm	1.0125 ppm	10.1344 ppm	-0.0035 ppm
Concentration per Run 1	0.0556 ppm	0.5268 ppm	0.2193 ppm	0.2652 ppm	1.0098 ppm	10.0965 ppm	-0.0034 ppm
Concentration per Run 2	0.0548 ppm	0.5232 ppm	0.2172 ppm	0.2636 ppm	1.0153 ppm	10.1722 ppm	-0.0028 ppm
Concentration per Run 3	0.0549 ppm	0.5224 ppm	0.2170 ppm	0.2632 ppm	1.0125 ppm	10.1347 ppm	-0.0042 ppm
Concentration RSD	0.8 %	0.4 %	0.6 %	0.4 %	0.3 %	0.4 %	21.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.1866 ppm	0.4850 ppm	1.0477 ppm	10.7364 ppm	0.5231 ppm	0.5525 ppm	0.5289 ppm
Concentration per Run 1	10.2358 ppm	0.4851 ppm	1.0359 ppm	10.7788 ppm	0.5258 ppm	0.5537 ppm	0.5333 ppm
Concentration per Run 2	10.1776 ppm	0.4849 ppm	1.0487 ppm	10.7167 ppm	0.5202 ppm	0.5537 ppm	0.5285 ppm
Concentration per Run 3	10.1465 ppm	0.4849 ppm	1.0587 ppm	10.7138 ppm	0.5232 ppm	0.5501 ppm	0.5250 ppm
Concentration RSD	0.4 %	0.0 %	1.1 %	0.3 %	0.5 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1271 ppm	1.0309 ppm	1.0102 ppm	0.9964 ppm	1.0493 ppm	0.1224 ppm	0.5319 ppm
Concentration per Run 1	0.1258 ppm	1.0388 ppm	1.0064 ppm	0.9952 ppm	1.0547 ppm	0.1227 ppm	0.5332 ppm
Concentration per Run 2	0.1299 ppm	1.0326 ppm	1.0158 ppm	1.0003 ppm	1.0482 ppm	0.1218 ppm	0.5321 ppm
Concentration per Run 3	0.1256 ppm	1.0212 ppm	1.0085 ppm	0.9938 ppm	1.0450 ppm	0.1227 ppm	0.5304 ppm
Concentration RSD	1.9 %	0.9 %	0.5 %	0.3 %	0.5 %	0.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5284 ppm	97.1667 %	106.3148 %	96.5324 %	96.5646 %	104.1458 %	97.5694 %
Concentration per Run 1	0.5285 ppm	96.6038 %	106.4670 %	96.5850 %	96.5123 %	104.6743 %	97.7922 %
Concentration per Run 2	0.5291 ppm	97.1202 %	105.8674 %	96.5765 %	96.4431 %	103.3494 %	97.6208 %
Concentration per Run 3	0.5274 ppm	97.7761 %	106.6099 %	96.4356 %	96.7384 %	104.4136 %	97.2951 %
Concentration RSD	0.2 %	0.6 %	0.4 %	0.1 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-03d2 WG1935620
Analysis started at: 6/18/2024 4:33:01 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	187.4101 ppm	0.0889 ppm	0.0421 ppm	1.0278 ppm	0.0111 ppm	14.9279 ppm
Concentration per Run 1	0.0010 ppm	188.0184 ppm	0.0900 ppm	0.0426 ppm	1.0271 ppm	0.0111 ppm	14.9713 ppm
Concentration per Run 2	0.0006 ppm	187.0298 ppm	0.0886 ppm	0.0433 ppm	1.0296 ppm	0.0111 ppm	14.8989 ppm
Concentration per Run 3	0.0008 ppm	187.1820 ppm	0.0881 ppm	0.0405 ppm	1.0267 ppm	0.0111 ppm	14.9134 ppm
Concentration RSD	27.3 %	0.3 %	1.1 %	3.4 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0053 ppm	0.1220 ppm	0.3354 ppm	0.8799 ppm	212.8312 ppm	37.2775 ppm	0.3808 ppm
Concentration per Run 1	0.0053 ppm	0.1224 ppm	0.3361 ppm	0.8825 ppm	213.4292 ppm	37.3940 ppm	0.3851 ppm
Concentration per Run 2	0.0053 ppm	0.1218 ppm	0.3356 ppm	0.8798 ppm	212.7664 ppm	37.2023 ppm	0.3796 ppm
Concentration per Run 3	0.0054 ppm	0.1217 ppm	0.3344 ppm	0.8775 ppm	212.2980 ppm	37.2363 ppm	0.3776 ppm
Concentration RSD	1.1 %	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	87.4918 ppm	6.4123 ppm	0.0019 ppm	1.0288 ppm	0.2514 ppm	1.8712 ppm	0.0073 ppm
Concentration per Run 1	87.9635 ppm	6.4292 ppm	0.0011 ppm	1.0419 ppm	0.2524 ppm	1.8771 ppm	0.0050 ppm
Concentration per Run 2	87.2139 ppm	6.3979 ppm	0.0020 ppm	1.0214 ppm	0.2511 ppm	1.8672 ppm	0.0110 ppm
Concentration per Run 3	87.2980 ppm	6.4099 ppm	0.0026 ppm	1.0232 ppm	0.2508 ppm	1.8694 ppm	0.0059 ppm
Concentration RSD	0.5 %	0.2 %	40.3 %	1.1 %	0.3 %	0.3 %	44.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	10.6340 ppm	0.0771 ppm	0.1359 ppm	6.0569 ppm	0.0050 ppm	0.4731 ppm
Concentration per Run 1	0.0015 ppm	10.6862 ppm	0.0776 ppm	0.1362 ppm	6.1087 ppm	0.0046 ppm	0.4734 ppm
Concentration per Run 2	0.0012 ppm	10.8885 ppm	0.0775 ppm	0.1362 ppm	6.0314 ppm	0.0052 ppm	0.4740 ppm
Concentration per Run 3	0.0049 ppm	10.3274 ppm	0.0762 ppm	0.1355 ppm	6.0308 ppm	0.0051 ppm	0.4719 ppm
Concentration RSD	80.8 %	2.7 %	1.0 %	0.3 %	0.7 %	6.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6569 ppm	104.0903 %	115.7458 %	93.0606 %	122.0955 %	138.0124 %	124.0329 %
Concentration per Run 1	1.6704 ppm	103.3071 %	115.2319 %	92.8620 %	120.8521 %	137.5311 %	123.8782 %
Concentration per Run 2	1.6452 ppm	104.8382 %	116.0718 %	93.2951 %	122.9985 %	138.2804 %	124.3808 %
Concentration per Run 3	1.6551 ppm	104.1256 %	115.9337 %	93.0247 %	122.4360 %	138.2255 %	123.8396 %
Concentration RSD	0.8 %	0.7 %	0.4 %	0.2 %	0.9 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-05d2 WG1935620
Analysis started at: 6/18/2024 4:36:59 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	201.8145 ppm	0.0878 ppm	0.0402 ppm	1.0473 ppm	0.0112 ppm	9.6830 ppm
Concentration per Run 1	0.0003 ppm	202.9478 ppm	0.0864 ppm	0.0410 ppm	1.0547 ppm	0.0112 ppm	9.7280 ppm
Concentration per Run 2	0.0000 ppm	201.3670 ppm	0.0876 ppm	0.0407 ppm	1.0434 ppm	0.0113 ppm	9.6892 ppm
Concentration per Run 3	0.0007 ppm	201.1286 ppm	0.0893 ppm	0.0389 ppm	1.0439 ppm	0.0111 ppm	9.6319 ppm
Concentration RSD	110.1 %	0.5 %	1.6 %	2.9 %	0.6 %	1.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0050 ppm	0.1363 ppm	0.4114 ppm	0.8984 ppm	254.4058 ppm	34.4265 ppm	0.3762 ppm
Concentration per Run 1	0.0050 ppm	0.1364 ppm	0.4113 ppm	0.9025 ppm	256.0402 ppm	34.7914 ppm	0.3805 ppm
Concentration per Run 2	0.0049 ppm	0.1355 ppm	0.4119 ppm	0.8959 ppm	254.4032 ppm	34.0986 ppm	0.3702 ppm
Concentration per Run 3	0.0051 ppm	0.1370 ppm	0.4110 ppm	0.8969 ppm	252.7740 ppm	34.3894 ppm	0.3780 ppm
Concentration RSD	2.9 %	0.6 %	0.1 %	0.4 %	0.6 %	1.0 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.4613 ppm	6.1883 ppm	0.0021 ppm	1.2763 ppm	0.2721 ppm	2.3935 ppm	0.0078 ppm
Concentration per Run 1	85.7614 ppm	6.2304 ppm	0.0020 ppm	1.2902 ppm	0.2740 ppm	2.3995 ppm	0.0062 ppm
Concentration per Run 2	85.3357 ppm	6.1758 ppm	0.0023 ppm	1.2671 ppm	0.2715 ppm	2.3958 ppm	0.0083 ppm
Concentration per Run 3	85.2868 ppm	6.1586 ppm	0.0018 ppm	1.2716 ppm	0.2708 ppm	2.3853 ppm	0.0088 ppm
Concentration RSD	0.3 %	0.6 %	10.9 %	1.0 %	0.6 %	0.3 %	17.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	12.9280 ppm	0.0326 ppm	0.1207 ppm	6.8514 ppm	0.0059 ppm	0.5738 ppm
Concentration per Run 1	0.0011 ppm	13.1628 ppm	0.0319 ppm	0.1219 ppm	6.8533 ppm	0.0057 ppm	0.5742 ppm
Concentration per Run 2	0.0041 ppm	13.0974 ppm	0.0326 ppm	0.1207 ppm	6.8605 ppm	0.0063 ppm	0.5739 ppm
Concentration per Run 3	0.0056 ppm	12.5237 ppm	0.0332 ppm	0.1195 ppm	6.8405 ppm	0.0056 ppm	0.5731 ppm
Concentration RSD	63.7 %	2.7 %	1.9 %	1.0 %	0.1 %	6.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7053 ppm	103.9279 %	116.9767 %	92.3800 %	120.5849 %	137.3446 %	123.4773 %
Concentration per Run 1	2.7175 ppm	103.3994 %	116.8921 %	92.2605 %	119.7515 %	137.5974 %	123.1208 %
Concentration per Run 2	2.6941 ppm	104.2843 %	117.0940 %	92.3910 %	120.8442 %	137.6983 %	123.7150 %
Concentration per Run 3	2.7043 ppm	104.1001 %	116.9439 %	92.4884 %	121.1588 %	136.7381 %	123.5961 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.1 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-07d2 WG1935620
Analysis started at: 6/18/2024 4:40:58 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0026 ppm	225.9579 ppm	0.1263 ppm	0.0591 ppm	1.6246 ppm	0.0129 ppm	11.2858 ppm
Concentration per Run 1	-0.0022 ppm	225.7951 ppm	0.1249 ppm	0.0575 ppm	1.6218 ppm	0.0130 ppm	11.3014 ppm
Concentration per Run 2	-0.0023 ppm	225.8121 ppm	0.1292 ppm	0.0609 ppm	1.6273 ppm	0.0129 ppm	11.2537 ppm
Concentration per Run 3	-0.0032 ppm	226.2663 ppm	0.1248 ppm	0.0590 ppm	1.6246 ppm	0.0129 ppm	11.3024 ppm
Concentration RSD	20.4 %	0.1 %	2.0 %	2.9 %	0.2 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0082 ppm	0.1675 ppm	0.4322 ppm	1.9931 ppm	308.0749 ppm	48.1757 ppm	0.4712 ppm
Concentration per Run 1	0.0082 ppm	0.1684 ppm	0.4323 ppm	2.0078 ppm	307.2026 ppm	48.1768 ppm	0.4763 ppm
Concentration per Run 2	0.0082 ppm	0.1673 ppm	0.4317 ppm	1.9866 ppm	308.4170 ppm	48.1569 ppm	0.4662 ppm
Concentration per Run 3	0.0080 ppm	0.1667 ppm	0.4327 ppm	1.9847 ppm	308.6051 ppm	48.1935 ppm	0.4712 ppm
Concentration RSD	1.1 %	0.5 %	0.1 %	0.6 %	0.2 %	0.0 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	103.2962 ppm	7.1064 ppm	0.0007 ppm	1.3833 ppm	0.3446 ppm	5.3471 ppm	0.0092 ppm
Concentration per Run 1	103.3737 ppm	7.1026 ppm	-0.0001 ppm	1.3925 ppm	0.3454 ppm	5.3410 ppm	0.0050 ppm
Concentration per Run 2	103.5257 ppm	7.1087 ppm	0.0016 ppm	1.3792 ppm	0.3450 ppm	5.3443 ppm	0.0109 ppm
Concentration per Run 3	102.9891 ppm	7.1080 ppm	0.0007 ppm	1.3783 ppm	0.3433 ppm	5.3562 ppm	0.0119 ppm
Concentration RSD	0.3 %	0.0 %	120.9 %	0.6 %	0.3 %	0.1 %	40.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	9.9179 ppm	0.0558 ppm	0.0940 ppm	7.4382 ppm	0.0051 ppm	0.6064 ppm
Concentration per Run 1	0.0032 ppm	10.1016 ppm	0.0550 ppm	0.0939 ppm	7.4755 ppm	0.0076 ppm	0.6066 ppm
Concentration per Run 2	0.0002 ppm	9.8928 ppm	0.0560 ppm	0.0939 ppm	7.4429 ppm	0.0036 ppm	0.6061 ppm
Concentration per Run 3	0.0047 ppm	9.7595 ppm	0.0565 ppm	0.0942 ppm	7.3964 ppm	0.0041 ppm	0.6064 ppm
Concentration RSD	85.6 %	1.7 %	1.3 %	0.2 %	0.5 %	42.9 %	0.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.2649 ppm	102.4800 %	117.6755 %	91.0145 %	117.6713 %	139.9734 %	124.8777 %
Concentration per Run 1	4.2639 ppm	103.1224 %	117.8032 %	91.1464 %	118.1918 %	139.7502 %	124.7231 %
Concentration per Run 2	4.2743 ppm	102.0462 %	117.9173 %	91.0196 %	117.3194 %	140.1690 %	125.0615 %
Concentration per Run 3	4.2566 ppm	102.2715 %	117.3059 %	90.8776 %	117.5026 %	140.0010 %	124.8485 %
Concentration RSD	0.2 %	0.6 %	0.3 %	0.1 %	0.4 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-01d2 WG1935620
Analysis started at: 6/18/2024 4:44:57 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	217.3925 ppm	0.2496 ppm	0.0397 ppm	1.8458 ppm	0.0135 ppm	16.9437 ppm
Concentration per Run 1	0.0011 ppm	217.5508 ppm	0.2487 ppm	0.0394 ppm	1.8470 ppm	0.0136 ppm	16.9670 ppm
Concentration per Run 2	0.0012 ppm	218.0574 ppm	0.2495 ppm	0.0394 ppm	1.8505 ppm	0.0134 ppm	16.9733 ppm
Concentration per Run 3	0.0006 ppm	216.5694 ppm	0.2505 ppm	0.0403 ppm	1.8399 ppm	0.0135 ppm	16.8908 ppm
Concentration RSD	36.6 %	0.3 %	0.4 %	1.3 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.1345 ppm	0.3727 ppm	1.2693 ppm	272.3663 ppm	39.6061 ppm	0.3949 ppm
Concentration per Run 1	0.0106 ppm	0.1341 ppm	0.3729 ppm	1.2693 ppm	273.1627 ppm	39.8264 ppm	0.3982 ppm
Concentration per Run 2	0.0106 ppm	0.1347 ppm	0.3727 ppm	1.2680 ppm	272.3263 ppm	39.4029 ppm	0.3969 ppm
Concentration per Run 3	0.0104 ppm	0.1348 ppm	0.3726 ppm	1.2704 ppm	271.6097 ppm	39.5889 ppm	0.3895 ppm
Concentration RSD	1.1 %	0.3 %	0.0 %	0.1 %	0.3 %	0.5 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	88.6831 ppm	7.2683 ppm	0.0009 ppm	2.6352 ppm	0.2790 ppm	7.9012 ppm	0.0125 ppm
Concentration per Run 1	88.5945 ppm	7.2801 ppm	0.0008 ppm	2.6506 ppm	0.2794 ppm	7.9145 ppm	0.0145 ppm
Concentration per Run 2	88.6916 ppm	7.2791 ppm	0.0004 ppm	2.6373 ppm	0.2789 ppm	7.9117 ppm	0.0094 ppm
Concentration per Run 3	88.7633 ppm	7.2455 ppm	0.0015 ppm	2.6175 ppm	0.2788 ppm	7.8775 ppm	0.0135 ppm
Concentration RSD	0.1 %	0.3 %	62.4 %	0.6 %	0.1 %	0.3 %	21.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	10.5525 ppm	0.0590 ppm	0.1690 ppm	6.4145 ppm	0.0078 ppm	0.6938 ppm
Concentration per Run 1	0.0010 ppm	10.8827 ppm	0.0583 ppm	0.1693 ppm	6.4237 ppm	0.0081 ppm	0.6931 ppm
Concentration per Run 2	0.0030 ppm	10.5840 ppm	0.0588 ppm	0.1688 ppm	6.3950 ppm	0.0081 ppm	0.6918 ppm
Concentration per Run 3	0.0037 ppm	10.1907 ppm	0.0598 ppm	0.1688 ppm	6.4248 ppm	0.0073 ppm	0.6966 ppm
Concentration RSD	54.6 %	3.3 %	1.3 %	0.2 %	0.3 %	5.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.2833 ppm	105.1923 %	118.6224 %	92.9960 %	128.2046 %	146.8649 %	131.1825 %
Concentration per Run 1	8.2718 ppm	105.2916 %	118.5914 %	93.2190 %	128.3171 %	147.0887 %	131.5844 %
Concentration per Run 2	8.2803 ppm	105.3965 %	118.4049 %	92.4795 %	128.4828 %	146.8599 %	130.5248 %
Concentration per Run 3	8.2977 ppm	104.8888 %	118.8708 %	93.2894 %	127.8139 %	146.6460 %	131.4383 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.5 %	0.3 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-3d2 WG1935620
Analysis started at: 6/18/2024 4:48:55 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	185.4456 ppm	0.3409 ppm	0.8834 ppm	4.3085 ppm	0.0603 ppm	26.5461 ppm
Concentration per Run 1	0.0522 ppm	185.4621 ppm	0.3443 ppm	0.9090 ppm	4.3202 ppm	0.0603 ppm	26.5040 ppm
Concentration per Run 2	0.0519 ppm	185.1324 ppm	0.3411 ppm	0.9036 ppm	4.2851 ppm	0.0601 ppm	26.5474 ppm
Concentration per Run 3	0.0480 ppm	185.7421 ppm	0.3373 ppm	0.8375 ppm	4.3203 ppm	0.0605 ppm	26.5868 ppm
Concentration RSD	4.6 %	0.2 %	1.0 %	4.5 %	0.5 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0598 ppm	0.5698 ppm	0.4907 ppm	2.1179 ppm	219.6077 ppm	41.4783 ppm	0.3226 ppm
Concentration per Run 1	0.0616 ppm	0.5880 ppm	0.5054 ppm	2.1824 ppm	220.0625 ppm	41.5891 ppm	0.3256 ppm
Concentration per Run 2	0.0612 ppm	0.5824 ppm	0.5029 ppm	2.1683 ppm	218.9604 ppm	41.4415 ppm	0.3198 ppm
Concentration per Run 3	0.0566 ppm	0.5389 ppm	0.4637 ppm	2.0029 ppm	219.8001 ppm	41.4043 ppm	0.3224 ppm
Concentration RSD	4.7 %	4.7 %	4.8 %	4.7 %	0.3 %	0.2 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	81.1878 ppm	7.8707 ppm	0.8852 ppm	11.5510 ppm	0.6753 ppm	37.4785 ppm	0.4076 ppm
Concentration per Run 1	83.5532 ppm	7.8641 ppm	0.8989 ppm	11.5202 ppm	0.6963 ppm	37.8159 ppm	0.4167 ppm
Concentration per Run 2	83.2921 ppm	7.8600 ppm	0.9062 ppm	11.5505 ppm	0.6911 ppm	37.5378 ppm	0.4160 ppm
Concentration per Run 3	76.7180 ppm	7.8881 ppm	0.8505 ppm	11.5821 ppm	0.6384 ppm	37.0817 ppm	0.3900 ppm
Concentration RSD	4.8 %	0.2 %	3.4 %	0.3 %	4.7 %	1.0 %	3.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1164 ppm	13.3382 ppm	0.8025 ppm	1.0939 ppm	6.8375 ppm	0.1256 ppm	1.0341 ppm
Concentration per Run 1	0.1160 ppm	13.8431 ppm	0.8173 ppm	1.0943 ppm	7.0412 ppm	0.1268 ppm	1.0655 ppm
Concentration per Run 2	0.1180 ppm	13.7354 ppm	0.8150 ppm	1.0911 ppm	7.0123 ppm	0.1266 ppm	1.0612 ppm
Concentration per Run 3	0.1151 ppm	12.4361 ppm	0.7752 ppm	1.0963 ppm	6.4590 ppm	0.1235 ppm	0.9756 ppm
Concentration RSD	1.3 %	5.9 %	2.9 %	0.2 %	4.8 %	1.5 %	4.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	13.4938 ppm	105.6476 %	114.7959 %	88.8424 %	126.7887 %	141.3891 %	125.1384 %
Concentration per Run 1	13.8892 ppm	102.9494 %	114.8207 %	87.7940 %	124.6906 %	140.9728 %	123.4573 %
Concentration per Run 2	13.7885 ppm	103.0751 %	115.3592 %	89.3518 %	124.5057 %	142.1266 %	126.0669 %
Concentration per Run 3	12.8036 ppm	110.9184 %	114.2079 %	89.3813 %	131.1697 %	141.0678 %	125.8909 %
Concentration RSD	4.4 %	4.3 %	0.5 %	1.0 %	3.0 %	0.5 %	1.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-4d2 WG1935620
Analysis started at: 6/18/2024 4:52:54 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	179.6466 ppm	0.1723 ppm	0.0388 ppm	1.7419 ppm	0.0113 ppm	16.3063 ppm
Concentration per Run 1	0.0011 ppm	178.9539 ppm	0.1747 ppm	0.0393 ppm	1.7372 ppm	0.0113 ppm	16.2424 ppm
Concentration per Run 2	0.0012 ppm	180.2697 ppm	0.1706 ppm	0.0391 ppm	1.7454 ppm	0.0114 ppm	16.3819 ppm
Concentration per Run 3	0.0012 ppm	179.7163 ppm	0.1717 ppm	0.0380 ppm	1.7429 ppm	0.0113 ppm	16.2947 ppm
Concentration RSD	4.5 %	0.4 %	1.2 %	1.9 %	0.2 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0115 ppm	0.1282 ppm	0.3321 ppm	1.8883 ppm	215.4216 ppm	40.3726 ppm	0.3722 ppm
Concentration per Run 1	0.0117 ppm	0.1289 ppm	0.3322 ppm	1.9000 ppm	214.9332 ppm	40.0407 ppm	0.3687 ppm
Concentration per Run 2	0.0115 ppm	0.1287 ppm	0.3323 ppm	1.8870 ppm	216.6391 ppm	40.6032 ppm	0.3747 ppm
Concentration per Run 3	0.0114 ppm	0.1270 ppm	0.3318 ppm	1.8779 ppm	214.6923 ppm	40.4738 ppm	0.3731 ppm
Concentration RSD	1.3 %	0.8 %	0.1 %	0.6 %	0.5 %	0.7 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.9077 ppm	6.4470 ppm	0.0026 ppm	2.4160 ppm	0.2522 ppm	17.2990 ppm	0.0085 ppm
Concentration per Run 1	86.0069 ppm	6.4429 ppm	0.0028 ppm	2.4044 ppm	0.2524 ppm	17.3143 ppm	0.0094 ppm
Concentration per Run 2	85.8606 ppm	6.4637 ppm	0.0023 ppm	2.4238 ppm	0.2526 ppm	17.2757 ppm	0.0111 ppm
Concentration per Run 3	85.8555 ppm	6.4343 ppm	0.0028 ppm	2.4199 ppm	0.2516 ppm	17.3069 ppm	0.0051 ppm
Concentration RSD	0.1 %	0.2 %	11.9 %	0.4 %	0.2 %	0.1 %	36.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0031 ppm	9.7771 ppm	0.0599 ppm	0.1548 ppm	5.9201 ppm	0.0041 ppm	0.5672 ppm
Concentration per Run 1	0.0025 ppm	9.7020 ppm	0.0601 ppm	0.1545 ppm	5.9289 ppm	0.0048 ppm	0.5691 ppm
Concentration per Run 2	0.0035 ppm	9.9392 ppm	0.0601 ppm	0.1557 ppm	5.9030 ppm	0.0034 ppm	0.5678 ppm
Concentration per Run 3	0.0034 ppm	9.6901 ppm	0.0595 ppm	0.1543 ppm	5.9285 ppm	0.0041 ppm	0.5647 ppm
Concentration RSD	16.1 %	1.4 %	0.6 %	0.5 %	0.3 %	17.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	11.5951 ppm	103.6630 %	117.1657 %	93.0659 %	124.8189 %	142.1631 %	126.8300 %
Concentration per Run 1	11.6719 ppm	103.4018 %	117.3095 %	92.9789 %	124.9497 %	141.6608 %	126.9609 %
Concentration per Run 2	11.5844 ppm	103.8455 %	116.8088 %	92.7934 %	124.7366 %	142.5013 %	126.3140 %
Concentration per Run 3	11.5291 ppm	103.7416 %	117.3788 %	93.4254 %	124.7704 %	142.3272 %	127.2153 %
Concentration RSD	0.6 %	0.2 %	0.3 %	0.3 %	0.1 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-5d2 WG1935620
Analysis started at: 6/18/2024 4:56:52 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0467 ppm	213.7086 ppm	0.3640 ppm	0.9088 ppm	3.5502 ppm	0.0570 ppm	25.0966 ppm
Concentration per Run 1	0.0468 ppm	213.8840 ppm	0.3646 ppm	0.9068 ppm	3.5596 ppm	0.0571 ppm	25.1180 ppm
Concentration per Run 2	0.0466 ppm	213.6438 ppm	0.3635 ppm	0.9120 ppm	3.5316 ppm	0.0571 ppm	25.1242 ppm
Concentration per Run 3	0.0468 ppm	213.5981 ppm	0.3639 ppm	0.9076 ppm	3.5595 ppm	0.0569 ppm	25.0476 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %	0.5 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0553 ppm	0.5543 ppm	0.5337 ppm	1.4539 ppm	265.9016 ppm	47.3191 ppm	0.3813 ppm
Concentration per Run 1	0.0554 ppm	0.5546 ppm	0.5344 ppm	1.4587 ppm	266.3978 ppm	47.5820 ppm	0.3883 ppm
Concentration per Run 2	0.0553 ppm	0.5553 ppm	0.5346 ppm	1.4503 ppm	265.7850 ppm	47.2199 ppm	0.3794 ppm
Concentration per Run 3	0.0551 ppm	0.5529 ppm	0.5321 ppm	1.4527 ppm	265.5221 ppm	47.1553 ppm	0.3761 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.3 %	0.2 %	0.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	94.2348 ppm	7.4573 ppm	0.8761 ppm	12.1684 ppm	0.6999 ppm	8.2614 ppm	0.4544 ppm
Concentration per Run 1	94.3095 ppm	7.4648 ppm	0.8613 ppm	12.1564 ppm	0.7008 ppm	8.2572 ppm	0.4516 ppm
Concentration per Run 2	94.3424 ppm	7.4621 ppm	0.8771 ppm	12.1904 ppm	0.7019 ppm	8.2647 ppm	0.4560 ppm
Concentration per Run 3	94.0527 ppm	7.4451 ppm	0.8897 ppm	12.1584 ppm	0.6969 ppm	8.2622 ppm	0.4556 ppm
Concentration RSD	0.2 %	0.1 %	1.6 %	0.2 %	0.4 %	0.0 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1254 ppm	10.6853 ppm	0.7533 ppm	1.0515 ppm	7.0694 ppm	0.1214 ppm	1.1148 ppm
Concentration per Run 1	0.1277 ppm	10.6888 ppm	0.7515 ppm	1.0517 ppm	7.1033 ppm	0.1206 ppm	1.1139 ppm
Concentration per Run 2	0.1266 ppm	10.6033 ppm	0.7581 ppm	1.0531 ppm	7.0593 ppm	0.1219 ppm	1.1159 ppm
Concentration per Run 3	0.1221 ppm	10.7637 ppm	0.7503 ppm	1.0496 ppm	7.0457 ppm	0.1216 ppm	1.1147 ppm
Concentration RSD	2.4 %	0.8 %	0.6 %	0.2 %	0.4 %	0.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.3883 ppm	105.4039 %	117.5928 %	91.6033 %	127.6689 %	144.9638 %	129.4622 %
Concentration per Run 1	8.4207 ppm	105.3867 %	118.4427 %	91.7026 %	127.7887 %	146.1868 %	129.4286 %
Concentration per Run 2	8.3926 ppm	105.1159 %	116.6217 %	91.4796 %	127.2923 %	143.9197 %	129.3557 %
Concentration per Run 3	8.3515 ppm	105.7092 %	117.7140 %	91.6277 %	127.9259 %	144.7849 %	129.6023 %
Concentration RSD	0.4 %	0.3 %	0.8 %	0.1 %	0.3 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935620-6d10 WG1935620
Analysis started at: 6/18/2024 5:00:51 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	48.2167 ppm	0.0500 ppm	0.0094 ppm	0.4049 ppm	0.0030 ppm	3.7553 ppm
Concentration per Run 1	-0.0001 ppm	48.2786 ppm	0.0513 ppm	0.0094 ppm	0.4058 ppm	0.0030 ppm	3.7492 ppm
Concentration per Run 2	0.0005 ppm	48.2661 ppm	0.0499 ppm	0.0085 ppm	0.4043 ppm	0.0030 ppm	3.7611 ppm
Concentration per Run 3	0.0000 ppm	48.1054 ppm	0.0489 ppm	0.0103 ppm	0.4048 ppm	0.0029 ppm	3.7555 ppm
Concentration RSD	232.4 %	0.2 %	2.4 %	9.4 %	0.2 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0313 ppm	0.0848 ppm	0.2769 ppm	63.3724 ppm	8.6969 ppm	0.0863 ppm
Concentration per Run 1	0.0024 ppm	0.0324 ppm	0.0858 ppm	0.2805 ppm	63.3463 ppm	8.7025 ppm	0.0866 ppm
Concentration per Run 2	0.0024 ppm	0.0306 ppm	0.0852 ppm	0.2770 ppm	63.4721 ppm	8.7115 ppm	0.0841 ppm
Concentration per Run 3	0.0024 ppm	0.0310 ppm	0.0834 ppm	0.2732 ppm	63.2989 ppm	8.6766 ppm	0.0882 ppm
Concentration RSD	0.8 %	3.0 %	1.5 %	1.3 %	0.1 %	0.2 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2421 ppm	1.6249 ppm	-0.0008 ppm	0.6305 ppm	0.0656 ppm	1.6217 ppm	0.0012 ppm
Concentration per Run 1	20.5088 ppm	1.6245 ppm	-0.0010 ppm	0.6347 ppm	0.0665 ppm	1.6282 ppm	0.0004 ppm
Concentration per Run 2	20.2008 ppm	1.6290 ppm	-0.0012 ppm	0.6272 ppm	0.0654 ppm	1.6176 ppm	0.0002 ppm
Concentration per Run 3	20.0168 ppm	1.6213 ppm	-0.0001 ppm	0.6298 ppm	0.0648 ppm	1.6192 ppm	0.0030 ppm
Concentration RSD	1.2 %	0.2 %	73.6 %	0.6 %	1.3 %	0.4 %	130.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.5327 ppm	0.0172 ppm	0.0367 ppm	1.4496 ppm	0.0015 ppm	0.1542 ppm
Concentration per Run 1	0.0035 ppm	2.6081 ppm	0.0177 ppm	0.0367 ppm	1.4753 ppm	0.0021 ppm	0.1551 ppm
Concentration per Run 2	0.0041 ppm	2.5427 ppm	0.0169 ppm	0.0368 ppm	1.4473 ppm	0.0029 ppm	0.1547 ppm
Concentration per Run 3	-0.0003 ppm	2.4473 ppm	0.0171 ppm	0.0367 ppm	1.4264 ppm	-0.0005 ppm	0.1527 ppm
Concentration RSD	96.7 %	3.2 %	2.7 %	0.1 %	1.7 %	118.4 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9900 ppm	98.5873 %	110.1011 %	97.2202 %	104.7221 %	115.0160 %	106.2386 %
Concentration per Run 1	2.0156 ppm	97.7220 %	110.7462 %	97.1217 %	104.6682 %	115.3519 %	106.4922 %
Concentration per Run 2	1.9876 ppm	98.8086 %	109.7669 %	97.1395 %	104.8673 %	114.8092 %	105.9691 %
Concentration per Run 3	1.9668 ppm	99.2313 %	109.7903 %	97.3994 %	104.6308 %	114.8870 %	106.2544 %
Concentration RSD	1.2 %	0.8 %	0.5 %	0.2 %	0.1 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 5:04:50 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5247 ppm	0.4975 ppm	0.4983 ppm	0.5146 ppm	0.5204 ppm	0.5148 ppm	0.5007 ppm
Concentration per Run 1	0.5258 ppm	0.5067 ppm	0.4993 ppm	0.5123 ppm	0.5196 ppm	0.5140 ppm	0.5034 ppm
Concentration per Run 2	0.5240 ppm	0.4919 ppm	0.4998 ppm	0.5160 ppm	0.5217 ppm	0.5148 ppm	0.4970 ppm
Concentration per Run 3	0.5244 ppm	0.4940 ppm	0.4959 ppm	0.5157 ppm	0.5198 ppm	0.5156 ppm	0.5017 ppm
Recovery Percentage 1	104.949 %	99.504 %	99.661 %	102.930 %	104.074 %	102.959 %	100.141 %
Concentration RSD	0.2 %	1.6 %	0.4 %	0.4 %	0.2 %	0.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5266 ppm	0.5326 ppm	0.5218 ppm	0.5096 ppm	0.5072 ppm	5.2143 ppm	0.4807 ppm
Concentration per Run 1	0.5282 ppm	0.5337 ppm	0.5235 ppm	0.5117 ppm	0.5103 ppm	5.2211 ppm	0.4774 ppm
Concentration per Run 2	0.5266 ppm	0.5336 ppm	0.5212 ppm	0.5106 ppm	0.5043 ppm	5.1886 ppm	0.4814 ppm
Concentration per Run 3	0.5250 ppm	0.5304 ppm	0.5205 ppm	0.5065 ppm	0.5071 ppm	5.2333 ppm	0.4834 ppm
Recovery Percentage 1	105.322 %	106.511 %	104.350 %	101.914 %	101.449 %	104.286 %	96.147 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.5 %	0.6 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5162 ppm	0.4826 ppm	0.5221 ppm	10.9315 ppm	0.5416 ppm	0.5104 ppm	0.5111 ppm
Concentration per Run 1	0.5190 ppm	0.4826 ppm	0.5144 ppm	10.9587 ppm	0.5455 ppm	0.5132 ppm	0.5134 ppm
Concentration per Run 2	0.5156 ppm	0.4830 ppm	0.5226 ppm	10.8895 ppm	0.5419 ppm	0.5087 ppm	0.5117 ppm
Concentration per Run 3	0.5141 ppm	0.4823 ppm	0.5292 ppm	10.9462 ppm	0.5375 ppm	0.5094 ppm	0.5082 ppm
Recovery Percentage 1	103.245 %	96.524 %	104.414 %	109.315 %	108.330 %	102.089 %	102.222 %
Concentration RSD	0.5 %	0.1 %	1.4 %	0.3 %	0.7 %	0.5 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5106 ppm	5.4690 ppm	0.5330 ppm	0.5252 ppm	0.5295 ppm	0.5054 ppm	0.5228 ppm
Concentration per Run 1	0.5116 ppm	5.4778 ppm	0.5295 ppm	0.5255 ppm	0.5326 ppm	0.5051 ppm	0.5257 ppm
Concentration per Run 2	0.5117 ppm	5.4673 ppm	0.5360 ppm	0.5238 ppm	0.5306 ppm	0.5072 ppm	0.5212 ppm
Concentration per Run 3	0.5085 ppm	5.4618 ppm	0.5335 ppm	0.5262 ppm	0.5253 ppm	0.5037 ppm	0.5214 ppm
Recovery Percentage 1	102.119 %	104.171 %	106.598 %	105.032 %	105.898 %	101.071 %	104.553 %
Concentration RSD	0.3 %	0.1 %	0.6 %	0.2 %	0.7 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5433 ppm	98.1343 %	107.0748 %	98.2948 %	96.7149 %	104.8906 %	98.1728 %
Concentration per Run 1	0.5449 ppm	97.4985 %	106.5447 %	98.4651 %	96.4214 %	104.2118 %	98.3073 %
Concentration per Run 2	0.5459 ppm	98.2564 %	107.6003 %	98.4046 %	96.9152 %	105.3050 %	98.6491 %
Concentration per Run 3	0.5393 ppm	98.6480 %	107.0794 %	98.0147 %	96.8082 %	105.1551 %	97.5621 %
Recovery Percentage 1	108.668 %						
Concentration RSD	0.7 %	0.6 %	0.5 %	0.2 %	0.3 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 5:08:48 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0185 ppm	-0.0004 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 1	-0.0003 ppm	-0.0175 ppm	0.0001 ppm	0.0018 ppm	-0.0003 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 2	-0.0006 ppm	-0.0167 ppm	0.0002 ppm	0.0013 ppm	-0.0004 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 3	-0.0003 ppm	-0.0213 ppm	-0.0017 ppm	-0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0042 ppm
Recovery Percentage 1	-5.341 %	-18.515 %	-14.368 %	2.024 %	-2.568 %	1.819 %	3.008 %
Concentration RSD	45.1 %	13.2 %	246.1 %	279.4 %	65.7 %	36.5 %	109.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	0.0002 ppm	0.0098 ppm	-0.0071 ppm	-0.0049 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0107 ppm	-0.0226 ppm	-0.0050 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	0.0004 ppm	0.0096 ppm	0.0145 ppm	-0.0050 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0089 ppm	-0.0133 ppm	-0.0046 ppm
Recovery Percentage 1	-0.726 %	-2.363 %	-3.225 %	2.402 %	19.560 %	-0.286 %	-48.589 %
Concentration RSD	36.2 %	26.8 %	18.8 %	72.8 %	9.3 %	270.0 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	-0.0014 ppm	0.0334 ppm	0.0008 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0012 ppm	0.0325 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0002 ppm	-0.0015 ppm	0.0344 ppm	0.0015 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0014 ppm	0.0334 ppm	0.0002 ppm	0.0007 ppm	0.0013 ppm
Recovery Percentage 1	-0.441 %	1.136 %	-2.717 %	1.672 %	3.130 %	1.549 %	2.174 %
Concentration RSD	158.1 %	95.4 %	13.9 %	2.8 %	85.8 %	300.1 %	112.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	0.0188 ppm	0.0009 ppm	0.0001 ppm	0.0007 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0028 ppm	0.0354 ppm	0.0011 ppm	0.0002 ppm	0.0004 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0149 ppm	0.0009 ppm	0.0001 ppm	0.0005 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 3	0.0027 ppm	0.0060 ppm	0.0007 ppm	0.0000 ppm	0.0012 ppm	0.0014 ppm	-0.0003 ppm
Recovery Percentage 1	17.610 %	3.750 %	1.846 %	0.880 %	6.875 %	-2.575 %	-1.955 %
Concentration RSD	99.1 %	80.5 %	19.6 %	113.5 %	59.2 %	325.1 %	88.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	91.5946 %	103.3223 %	94.1354 %	98.2520 %	107.0506 %	99.9002 %
Concentration per Run 1	0.0009 ppm	90.3553 %	102.6332 %	93.8150 %	98.0803 %	106.6598 %	100.1997 %
Concentration per Run 2	0.0011 ppm	91.8654 %	103.9189 %	94.5256 %	98.4184 %	107.3801 %	100.2971 %
Concentration per Run 3	0.0011 ppm	92.5631 %	103.4149 %	94.0655 %	98.2573 %	107.1120 %	99.2038 %
Recovery Percentage 1	20.394 %						
Concentration RSD	10.8 %	1.2 %	0.6 %	0.4 %	0.2 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432798-01d2 WG1935399
Analysis started at: 6/18/2024 5:13:48 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	48.2913 ppm	0.0327 ppm	0.0487 ppm	0.6785 ppm	0.0024 ppm	195.2908 ppm
Concentration per Run 1	0.0015 ppm	48.0340 ppm	0.0323 ppm	0.0465 ppm	0.6743 ppm	0.0024 ppm	194.5650 ppm
Concentration per Run 2	0.0020 ppm	48.3378 ppm	0.0324 ppm	0.0492 ppm	0.6809 ppm	0.0023 ppm	194.4541 ppm
Concentration per Run 3	0.0013 ppm	48.5021 ppm	0.0333 ppm	0.0504 ppm	0.6801 ppm	0.0024 ppm	196.8533 ppm
Concentration RSD	21.1 %	0.5 %	1.8 %	4.1 %	0.5 %	1.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0254 ppm	0.0874 ppm	0.1943 ppm	74.6843 ppm	5.2449 ppm	0.0511 ppm
Concentration per Run 1	0.0017 ppm	0.0244 ppm	0.0846 ppm	0.1873 ppm	74.4248 ppm	5.2311 ppm	0.0510 ppm
Concentration per Run 2	0.0018 ppm	0.0257 ppm	0.0877 ppm	0.1955 ppm	74.5212 ppm	5.2619 ppm	0.0531 ppm
Concentration per Run 3	0.0018 ppm	0.0262 ppm	0.0899 ppm	0.2002 ppm	75.1068 ppm	5.2417 ppm	0.0492 ppm
Concentration RSD	3.7 %	3.6 %	3.0 %	3.4 %	0.5 %	0.3 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.9499 ppm	1.7664 ppm	0.0006 ppm	2.1842 ppm	0.0615 ppm	1.2745 ppm	0.0017 ppm
Concentration per Run 1	20.2830 ppm	1.7593 ppm	0.0006 ppm	2.1816 ppm	0.0585 ppm	1.2570 ppm	0.0011 ppm
Concentration per Run 2	21.0422 ppm	1.7627 ppm	0.0003 ppm	2.1705 ppm	0.0629 ppm	1.2761 ppm	0.0014 ppm
Concentration per Run 3	21.5246 ppm	1.7771 ppm	0.0010 ppm	2.2006 ppm	0.0630 ppm	1.2903 ppm	0.0025 ppm
Concentration RSD	3.0 %	0.5 %	52.4 %	0.7 %	4.2 %	1.3 %	43.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	16.8391 ppm	0.0246 ppm	0.9099 ppm	1.6463 ppm	0.0010 ppm	0.1207 ppm
Concentration per Run 1	0.0008 ppm	16.4294 ppm	0.0241 ppm	0.9075 ppm	1.5942 ppm	0.0008 ppm	0.1164 ppm
Concentration per Run 2	0.0006 ppm	16.8288 ppm	0.0242 ppm	0.9095 ppm	1.6512 ppm	0.0010 ppm	0.1212 ppm
Concentration per Run 3	-0.0005 ppm	17.2590 ppm	0.0254 ppm	0.9129 ppm	1.6936 ppm	0.0012 ppm	0.1246 ppm
Concentration RSD	232.4 %	2.5 %	3.0 %	0.3 %	3.0 %	18.7 %	3.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8045 ppm	116.0162 %	113.4514 %	102.0386 %	109.3892 %	118.1090 %	109.8967 %
Concentration per Run 1	0.7775 ppm	119.5037 %	113.2804 %	103.2768 %	109.0024 %	117.5773 %	109.7696 %
Concentration per Run 2	0.8088 ppm	115.6429 %	114.7066 %	102.0078 %	109.2977 %	118.8708 %	110.1504 %
Concentration per Run 3	0.8273 ppm	112.9021 %	112.3671 %	100.8312 %	109.8676 %	117.8789 %	109.7700 %
Concentration RSD	3.1 %	2.9 %	1.0 %	1.2 %	0.4 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: L2432800-01d2 WG1935399
Analysis started at: 6/18/2024 5:18:01 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	14.7135 ppm	0.0197 ppm	0.0323 ppm	0.0888 ppm	0.0013 ppm	9.8174 ppm
Concentration per Run 1	0.0009 ppm	14.7455 ppm	0.0197 ppm	0.0338 ppm	0.0894 ppm	0.0012 ppm	9.8093 ppm
Concentration per Run 2	0.0009 ppm	14.6851 ppm	0.0185 ppm	0.0326 ppm	0.0881 ppm	0.0013 ppm	9.8268 ppm
Concentration per Run 3	0.0009 ppm	14.7098 ppm	0.0210 ppm	0.0305 ppm	0.0891 ppm	0.0013 ppm	9.8162 ppm
Concentration RSD	3.3 %	0.2 %	6.4 %	5.2 %	0.8 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0068 ppm	0.1668 ppm	0.0463 ppm	46.4227 ppm	4.4833 ppm	0.0064 ppm
Concentration per Run 1	0.0007 ppm	0.0068 ppm	0.1690 ppm	0.0467 ppm	46.5777 ppm	4.5530 ppm	0.0064 ppm
Concentration per Run 2	0.0007 ppm	0.0067 ppm	0.1663 ppm	0.0460 ppm	46.1483 ppm	4.4374 ppm	0.0057 ppm
Concentration per Run 3	0.0007 ppm	0.0068 ppm	0.1651 ppm	0.0461 ppm	46.5420 ppm	4.4595 ppm	0.0072 ppm
Concentration RSD	4.1 %	1.2 %	1.2 %	0.9 %	0.5 %	1.4 %	12.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7561 ppm	0.2107 ppm	-0.0002 ppm	0.3159 ppm	0.0432 ppm	0.0557 ppm	0.0002 ppm
Concentration per Run 1	5.8281 ppm	0.2114 ppm	-0.0001 ppm	0.3174 ppm	0.0442 ppm	0.0564 ppm	0.0001 ppm
Concentration per Run 2	5.7421 ppm	0.2101 ppm	-0.0006 ppm	0.3117 ppm	0.0424 ppm	0.0549 ppm	0.0036 ppm
Concentration per Run 3	5.6981 ppm	0.2107 ppm	0.0000 ppm	0.3187 ppm	0.0431 ppm	0.0559 ppm	-0.0030 ppm
Concentration RSD	1.1 %	0.3 %	136.5 %	1.2 %	2.0 %	1.4 %	1,365.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	7.5867 ppm	0.0042 ppm	0.0373 ppm	0.5273 ppm	-0.0003 ppm	0.0953 ppm
Concentration per Run 1	0.0000 ppm	7.6867 ppm	0.0045 ppm	0.0373 ppm	0.5297 ppm	-0.0001 ppm	0.0963 ppm
Concentration per Run 2	0.0018 ppm	7.5605 ppm	0.0046 ppm	0.0371 ppm	0.5244 ppm	-0.0002 ppm	0.0952 ppm
Concentration per Run 3	0.0044 ppm	7.5129 ppm	0.0034 ppm	0.0375 ppm	0.5279 ppm	-0.0007 ppm	0.0943 ppm
Concentration RSD	107.5 %	1.2 %	14.9 %	0.5 %	0.5 %	103.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1059 ppm	98.3462 %	108.6919 %	98.4058 %	100.3654 %	108.7812 %	101.9355 %
Concentration per Run 1	0.1071 ppm	97.1584 %	108.8351 %	97.9417 %	100.0176 %	109.2054 %	101.6226 %
Concentration per Run 2	0.1056 ppm	98.6814 %	108.8530 %	98.7632 %	100.5383 %	108.5886 %	102.4599 %
Concentration per Run 3	0.1051 ppm	99.1989 %	108.3875 %	98.5124 %	100.5404 %	108.5497 %	101.7240 %
Concentration RSD	1.0 %	1.1 %	0.2 %	0.4 %	0.3 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: L2432800-02d2 WG1935399
Analysis started at: 6/18/2024 5:22:01 PM
Rack 3
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0011 ppm	43.8335 ppm	0.0479 ppm	0.0521 ppm	0.0715 ppm	0.0025 ppm	3.6902 ppm
Concentration per Run 1	-0.0008 ppm	43.8628 ppm	0.0473 ppm	0.0525 ppm	0.0715 ppm	0.0025 ppm	3.7135 ppm
Concentration per Run 2	-0.0012 ppm	43.6539 ppm	0.0499 ppm	0.0517 ppm	0.0713 ppm	0.0025 ppm	3.6665 ppm
Concentration per Run 3	-0.0012 ppm	43.9838 ppm	0.0464 ppm	0.0520 ppm	0.0717 ppm	0.0026 ppm	3.6907 ppm
Concentration RSD	21.8 %	0.4 %	3.8 %	0.8 %	0.3 %	2.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0114 ppm	0.1713 ppm	0.0362 ppm	90.4834 ppm	7.6753 ppm	0.0272 ppm
Concentration per Run 1	0.0003 ppm	0.0117 ppm	0.1727 ppm	0.0364 ppm	90.8293 ppm	7.7022 ppm	0.0286 ppm
Concentration per Run 2	0.0004 ppm	0.0106 ppm	0.1710 ppm	0.0360 ppm	89.9801 ppm	7.6237 ppm	0.0257 ppm
Concentration per Run 3	0.0002 ppm	0.0118 ppm	0.1701 ppm	0.0362 ppm	90.6408 ppm	7.7000 ppm	0.0273 ppm
Concentration RSD	35.1 %	5.8 %	0.8 %	0.6 %	0.5 %	0.6 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.4356 ppm	0.1773 ppm	-0.0002 ppm	1.7706 ppm	0.0278 ppm	0.0362 ppm	0.0016 ppm
Concentration per Run 1	7.4896 ppm	0.1777 ppm	-0.0005 ppm	1.7815 ppm	0.0279 ppm	0.0375 ppm	0.0003 ppm
Concentration per Run 2	7.4191 ppm	0.1765 ppm	-0.0001 ppm	1.7640 ppm	0.0275 ppm	0.0346 ppm	0.0027 ppm
Concentration per Run 3	7.3982 ppm	0.1776 ppm	-0.0002 ppm	1.7664 ppm	0.0278 ppm	0.0365 ppm	0.0017 ppm
Concentration RSD	0.6 %	0.4 %	84.6 %	0.5 %	0.8 %	4.0 %	78.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	8.6957 ppm	0.0020 ppm	0.0432 ppm	0.6536 ppm	0.0004 ppm	0.1972 ppm
Concentration per Run 1	0.0004 ppm	8.7672 ppm	0.0021 ppm	0.0437 ppm	0.6570 ppm	0.0008 ppm	0.1974 ppm
Concentration per Run 2	0.0037 ppm	8.6565 ppm	0.0024 ppm	0.0428 ppm	0.6605 ppm	0.0014 ppm	0.1976 ppm
Concentration per Run 3	0.0026 ppm	8.6633 ppm	0.0015 ppm	0.0432 ppm	0.6432 ppm	-0.0011 ppm	0.1966 ppm
Concentration RSD	77.3 %	0.7 %	22.7 %	0.9 %	1.4 %	352.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1916 ppm	98.8566 %	111.5950 %	99.4289 %	104.7207 %	119.1543 %	110.4373 %
Concentration per Run 1	0.1924 ppm	98.4105 %	110.7184 %	99.2029 %	104.8454 %	118.7414 %	110.3827 %
Concentration per Run 2	0.1933 ppm	98.8815 %	113.0715 %	99.9693 %	104.4306 %	120.1469 %	110.8338 %
Concentration per Run 3	0.1892 ppm	99.2776 %	110.9952 %	99.1144 %	104.8861 %	118.5746 %	110.0954 %
Concentration RSD	1.1 %	0.4 %	1.2 %	0.5 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432800-03d2 WG1935399
Analysis started at: 6/18/2024 5:26:01 PM
Rack 3
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	12.9169 ppm	0.0185 ppm	0.0305 ppm	0.0734 ppm	0.0012 ppm	2.4248 ppm
Concentration per Run 1	-0.0003 ppm	12.9330 ppm	0.0188 ppm	0.0308 ppm	0.0735 ppm	0.0012 ppm	2.4293 ppm
Concentration per Run 2	-0.0005 ppm	12.9127 ppm	0.0196 ppm	0.0302 ppm	0.0735 ppm	0.0012 ppm	2.4249 ppm
Concentration per Run 3	-0.0003 ppm	12.9051 ppm	0.0172 ppm	0.0305 ppm	0.0731 ppm	0.0012 ppm	2.4203 ppm
Concentration RSD	44.2 %	0.1 %	6.6 %	0.9 %	0.3 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0061 ppm	0.0993 ppm	0.0152 ppm	34.1324 ppm	4.0944 ppm	0.0045 ppm
Concentration per Run 1	0.0013 ppm	0.0065 ppm	0.1014 ppm	0.0159 ppm	34.1861 ppm	4.1512 ppm	0.0053 ppm
Concentration per Run 2	0.0013 ppm	0.0058 ppm	0.0994 ppm	0.0149 ppm	34.1222 ppm	4.0727 ppm	0.0053 ppm
Concentration per Run 3	0.0012 ppm	0.0061 ppm	0.0973 ppm	0.0147 ppm	34.0889 ppm	4.0594 ppm	0.0030 ppm
Concentration RSD	2.6 %	5.9 %	2.0 %	4.2 %	0.1 %	1.2 %	30.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.4509 ppm	0.0710 ppm	0.0013 ppm	0.3487 ppm	0.0136 ppm	0.0194 ppm	0.0000 ppm
Concentration per Run 1	2.4983 ppm	0.0711 ppm	0.0008 ppm	0.3464 ppm	0.0138 ppm	0.0204 ppm	0.0010 ppm
Concentration per Run 2	2.4386 ppm	0.0711 ppm	0.0013 ppm	0.3486 ppm	0.0134 ppm	0.0193 ppm	0.0010 ppm
Concentration per Run 3	2.4157 ppm	0.0707 ppm	0.0017 ppm	0.3511 ppm	0.0136 ppm	0.0184 ppm	-0.0020 ppm
Concentration RSD	1.7 %	0.4 %	35.9 %	0.7 %	1.6 %	5.3 %	131,902.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0033 ppm	7.4643 ppm	0.0008 ppm	0.0335 ppm	0.3159 ppm	-0.0011 ppm	0.0835 ppm
Concentration per Run 1	0.0058 ppm	7.5982 ppm	-0.0001 ppm	0.0335 ppm	0.3253 ppm	-0.0013 ppm	0.0855 ppm
Concentration per Run 2	0.0018 ppm	7.4615 ppm	0.0016 ppm	0.0335 ppm	0.3131 ppm	-0.0006 ppm	0.0829 ppm
Concentration per Run 3	0.0024 ppm	7.3333 ppm	0.0009 ppm	0.0335 ppm	0.3093 ppm	-0.0013 ppm	0.0821 ppm
Concentration RSD	65.5 %	1.8 %	103.6 %	0.1 %	2.7 %	40.9 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1247 ppm	96.7037 %	108.4806 %	97.8253 %	101.0577 %	111.0321 %	103.3097 %
Concentration per Run 1	0.1269 ppm	94.8224 %	107.8793 %	97.1877 %	99.8215 %	110.9426 %	102.8728 %
Concentration per Run 2	0.1241 ppm	97.2254 %	108.7991 %	97.8300 %	101.8036 %	110.9725 %	103.6205 %
Concentration per Run 3	0.1230 ppm	98.0634 %	108.7635 %	98.4582 %	101.5481 %	111.1813 %	103.4357 %
Concentration RSD	1.6 %	1.7 %	0.5 %	0.6 %	1.1 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432800-04d2 WG1935399
Analysis started at: 6/18/2024 5:30:01 PM
Rack 3
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0013 ppm	39.4826 ppm	0.0646 ppm	0.0728 ppm	0.0943 ppm	0.0025 ppm	6.2217 ppm
Concentration per Run 1	-0.0016 ppm	38.9814 ppm	0.0641 ppm	0.0742 ppm	0.0926 ppm	0.0026 ppm	6.2359 ppm
Concentration per Run 2	-0.0011 ppm	40.3359 ppm	0.0664 ppm	0.0711 ppm	0.0970 ppm	0.0024 ppm	6.1675 ppm
Concentration per Run 3	-0.0011 ppm	39.1306 ppm	0.0631 ppm	0.0730 ppm	0.0932 ppm	0.0026 ppm	6.2618 ppm
Concentration RSD	25.1 %	1.9 %	2.6 %	2.1 %	2.5 %	3.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0092 ppm	0.1866 ppm	0.0272 ppm	114.3860 ppm	10.7607 ppm	0.0163 ppm
Concentration per Run 1	-0.0002 ppm	0.0090 ppm	0.1876 ppm	0.0265 ppm	114.0734 ppm	10.4662 ppm	0.0178 ppm
Concentration per Run 2	-0.0002 ppm	0.0091 ppm	0.1860 ppm	0.0276 ppm	114.4838 ppm	11.3344 ppm	0.0173 ppm
Concentration per Run 3	-0.0001 ppm	0.0095 ppm	0.1863 ppm	0.0275 ppm	114.6009 ppm	10.4815 ppm	0.0136 ppm
Concentration RSD	44.6 %	2.7 %	0.5 %	2.1 %	0.2 %	4.6 %	14.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.2175 ppm	0.1737 ppm	0.0013 ppm	1.0590 ppm	0.0186 ppm	0.0282 ppm	0.0024 ppm
Concentration per Run 1	6.2573 ppm	0.1724 ppm	0.0014 ppm	1.0790 ppm	0.0198 ppm	0.0284 ppm	0.0016 ppm
Concentration per Run 2	6.1981 ppm	0.1750 ppm	0.0004 ppm	1.0189 ppm	0.0174 ppm	0.0282 ppm	0.0035 ppm
Concentration per Run 3	6.1971 ppm	0.1738 ppm	0.0021 ppm	1.0790 ppm	0.0186 ppm	0.0282 ppm	0.0021 ppm
Concentration RSD	0.6 %	0.7 %	62.9 %	3.3 %	6.3 %	0.4 %	41.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	8.2024 ppm	0.0021 ppm	0.0855 ppm	0.5575 ppm	-0.0008 ppm	0.2166 ppm
Concentration per Run 1	-0.0003 ppm	8.2518 ppm	0.0015 ppm	0.0866 ppm	0.5621 ppm	0.0000 ppm	0.2183 ppm
Concentration per Run 2	0.0031 ppm	8.1734 ppm	0.0021 ppm	0.0835 ppm	0.5562 ppm	-0.0009 ppm	0.2165 ppm
Concentration per Run 3	0.0026 ppm	8.1819 ppm	0.0028 ppm	0.0864 ppm	0.5542 ppm	-0.0014 ppm	0.2151 ppm
Concentration RSD	101.8 %	0.5 %	31.4 %	2.1 %	0.7 %	95.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1316 ppm	98.8938 %	105.6113 %	98.7649 %	98.1613 %	107.3119 %	103.0757 %
Concentration per Run 1	0.1330 ppm	97.7498 %	103.2714 %	99.0886 %	97.1118 %	105.4555 %	103.5735 %
Concentration per Run 2	0.1308 ppm	99.3451 %	110.3543 %	98.6998 %	98.4004 %	111.0574 %	102.8848 %
Concentration per Run 3	0.1309 ppm	99.5865 %	103.2083 %	98.5063 %	98.9716 %	105.4228 %	102.7687 %
Concentration RSD	1.0 %	1.0 %	3.9 %	0.3 %	1.0 %	3.0 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 5:34:00 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5226 ppm	0.4934 ppm	0.4960 ppm	0.5150 ppm	0.5172 ppm	0.5118 ppm	0.5015 ppm
Concentration per Run 1	0.5244 ppm	0.4919 ppm	0.4958 ppm	0.5179 ppm	0.5178 ppm	0.5115 ppm	0.5014 ppm
Concentration per Run 2	0.5216 ppm	0.4894 ppm	0.4940 ppm	0.5122 ppm	0.5173 ppm	0.5105 ppm	0.5031 ppm
Concentration per Run 3	0.5217 ppm	0.4988 ppm	0.4980 ppm	0.5148 ppm	0.5165 ppm	0.5135 ppm	0.5000 ppm
Recovery Percentage 1	104.517 %	98.674 %	99.191 %	102.994 %	103.441 %	102.368 %	100.304 %
Concentration RSD	0.3 %	1.0 %	0.4 %	0.6 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5242 ppm	0.5313 ppm	0.5198 ppm	0.5077 ppm	0.5045 ppm	5.1609 ppm	0.4740 ppm
Concentration per Run 1	0.5275 ppm	0.5357 ppm	0.5237 ppm	0.5100 ppm	0.5021 ppm	5.1639 ppm	0.4765 ppm
Concentration per Run 2	0.5216 ppm	0.5301 ppm	0.5177 ppm	0.5069 ppm	0.5083 ppm	5.1606 ppm	0.4788 ppm
Concentration per Run 3	0.5233 ppm	0.5282 ppm	0.5179 ppm	0.5062 ppm	0.5029 ppm	5.1580 ppm	0.4668 ppm
Recovery Percentage 1	104.832 %	106.265 %	103.951 %	101.539 %	100.893 %	103.217 %	94.804 %
Concentration RSD	0.6 %	0.7 %	0.7 %	0.4 %	0.7 %	0.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5147 ppm	0.4791 ppm	0.5161 ppm	10.8894 ppm	0.5391 ppm	0.5111 ppm	0.5088 ppm
Concentration per Run 1	0.5199 ppm	0.4792 ppm	0.5097 ppm	10.8704 ppm	0.5413 ppm	0.5107 ppm	0.5095 ppm
Concentration per Run 2	0.5124 ppm	0.4798 ppm	0.5153 ppm	10.9140 ppm	0.5360 ppm	0.5105 ppm	0.5071 ppm
Concentration per Run 3	0.5117 ppm	0.4782 ppm	0.5232 ppm	10.8838 ppm	0.5399 ppm	0.5121 ppm	0.5099 ppm
Recovery Percentage 1	102.933 %	95.811 %	103.219 %	108.894 %	107.815 %	102.218 %	101.769 %
Concentration RSD	0.9 %	0.2 %	1.3 %	0.2 %	0.5 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5126 ppm	5.4239 ppm	0.5297 ppm	0.5239 ppm	0.5279 ppm	0.5020 ppm	0.5200 ppm
Concentration per Run 1	0.5111 ppm	5.4342 ppm	0.5302 ppm	0.5228 ppm	0.5328 ppm	0.5022 ppm	0.5248 ppm
Concentration per Run 2	0.5128 ppm	5.4167 ppm	0.5299 ppm	0.5234 ppm	0.5238 ppm	0.5013 ppm	0.5171 ppm
Concentration per Run 3	0.5139 ppm	5.4207 ppm	0.5290 ppm	0.5256 ppm	0.5272 ppm	0.5025 ppm	0.5181 ppm
Recovery Percentage 1	102.518 %	103.312 %	105.939 %	104.790 %	105.583 %	100.402 %	103.997 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.3 %	0.9 %	0.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5394 ppm	99.2014 %	108.8176 %	98.8883 %	97.6929 %	106.5007 %	99.0751 %
Concentration per Run 1	0.5420 ppm	97.8952 %	109.2259 %	99.0876 %	96.4035 %	106.5217 %	99.1321 %
Concentration per Run 2	0.5369 ppm	99.7835 %	108.3468 %	98.7151 %	98.3933 %	106.4392 %	98.8222 %
Concentration per Run 3	0.5392 ppm	99.9256 %	108.8800 %	98.8623 %	98.2819 %	106.5413 %	99.2711 %
Recovery Percentage 1	107.874 %						
Concentration RSD	0.5 %	1.1 %	0.4 %	0.2 %	1.1 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 5:37:59 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0192 ppm	0.0006 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	-0.0001 ppm	-0.0204 ppm	0.0000 ppm	-0.0010 ppm	-0.0007 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	-0.0003 ppm	-0.0115 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	-0.0003 ppm	-0.0257 ppm	0.0013 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0041 ppm
Recovery Percentage 1	-3.670 %	-19.193 %	18.729 %	-1.136 %	-3.755 %	0.736 %	2.721 %
Concentration RSD	47.8 %	37.3 %	115.7 %	180.8 %	92.0 %	81.2 %	65.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0004 ppm	0.0043 ppm	-0.0506 ppm	-0.0044 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0004 ppm	0.0066 ppm	-0.0439 ppm	-0.0052 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0004 ppm	0.0028 ppm	-0.0622 ppm	-0.0046 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0035 ppm	-0.0456 ppm	-0.0033 ppm
Recovery Percentage 1	0.477 %	-2.008 %	-2.552 %	4.445 %	8.626 %	-2.022 %	-43.771 %
Concentration RSD	110.7 %	37.1 %	44.9 %	7.9 %	47.4 %	20.0 %	22.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0002 ppm	-0.0016 ppm	0.0288 ppm	-0.0003 ppm	-0.0008 ppm	-0.0007 ppm
Concentration per Run 1	-0.0022 ppm	0.0003 ppm	-0.0020 ppm	0.0330 ppm	0.0004 ppm	-0.0007 ppm	0.0014 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	-0.0017 ppm	0.0227 ppm	-0.0008 ppm	-0.0015 ppm	-0.0019 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	-0.0012 ppm	0.0307 ppm	-0.0005 ppm	-0.0002 ppm	-0.0015 ppm
Recovery Percentage 1	-1.251 %	2.093 %	-3.265 %	1.439 %	-1.100 %	-7.975 %	-1.332 %
Concentration RSD	70.8 %	54.7 %	25.8 %	18.8 %	226.3 %	86.0 %	276.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0049 ppm	0.0003 ppm	0.0000 ppm	0.0006 ppm	-0.0010 ppm	-0.0004 ppm
Concentration per Run 1	-0.0012 ppm	0.0052 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	-0.0017 ppm	-0.0005 ppm
Concentration per Run 2	0.0018 ppm	0.0033 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 3	0.0020 ppm	0.0061 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm	-0.0010 ppm	-0.0005 ppm
Recovery Percentage 1	8.671 %	0.976 %	0.559 %	-0.156 %	6.017 %	-5.029 %	-4.465 %
Concentration RSD	208.9 %	30.0 %	121.9 %	950.9 %	26.7 %	68.1 %	11.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	91.4589 %	102.9965 %	94.0926 %	98.1289 %	106.1507 %	99.5385 %
Concentration per Run 1	0.0007 ppm	90.6126 %	101.9557 %	94.1176 %	98.0280 %	105.6022 %	99.9078 %
Concentration per Run 2	0.0007 ppm	91.6568 %	102.6623 %	93.6324 %	98.4418 %	105.6378 %	99.2808 %
Concentration per Run 3	0.0009 ppm	92.1072 %	104.3714 %	94.5277 %	97.9169 %	107.2120 %	99.4269 %
Recovery Percentage 1	15.157 %						
Concentration RSD	12.6 %	0.8 %	1.2 %	0.5 %	0.3 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-09d2 WG1935620
Analysis started at: 6/18/2024 5:44:07 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	147.4289 ppm	0.1072 ppm	0.0393 ppm	1.6505 ppm	0.0101 ppm	13.5854 ppm
Concentration per Run 1	0.0002 ppm	146.1907 ppm	0.1059 ppm	0.0366 ppm	1.6294 ppm	0.0102 ppm	13.4913 ppm
Concentration per Run 2	0.0006 ppm	147.1878 ppm	0.1074 ppm	0.0403 ppm	1.6541 ppm	0.0101 ppm	13.5842 ppm
Concentration per Run 3	0.0008 ppm	148.9082 ppm	0.1083 ppm	0.0409 ppm	1.6679 ppm	0.0102 ppm	13.6808 ppm
Concentration RSD	53.6 %	0.9 %	1.2 %	5.9 %	1.2 %	0.6 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0084 ppm	0.0925 ppm	0.2639 ppm	1.7403 ppm	239.7865 ppm	27.0474 ppm	0.2768 ppm
Concentration per Run 1	0.0080 ppm	0.0882 ppm	0.2531 ppm	1.6684 ppm	238.0647 ppm	26.6552 ppm	0.2721 ppm
Concentration per Run 2	0.0086 ppm	0.0930 ppm	0.2646 ppm	1.7487 ppm	239.5257 ppm	27.1464 ppm	0.2775 ppm
Concentration per Run 3	0.0088 ppm	0.0964 ppm	0.2741 ppm	1.8038 ppm	241.7690 ppm	27.3407 ppm	0.2808 ppm
Concentration RSD	5.1 %	4.5 %	4.0 %	3.9 %	0.8 %	1.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.8913 ppm	5.1321 ppm	0.0000 ppm	1.2729 ppm	0.1800 ppm	5.0230 ppm	0.0056 ppm
Concentration per Run 1	49.7411 ppm	5.0983 ppm	0.0001 ppm	1.2581 ppm	0.1727 ppm	4.9467 ppm	0.0061 ppm
Concentration per Run 2	52.1841 ppm	5.1275 ppm	-0.0001 ppm	1.2713 ppm	0.1797 ppm	5.0470 ppm	0.0046 ppm
Concentration per Run 3	53.7488 ppm	5.1705 ppm	0.0001 ppm	1.2892 ppm	0.1877 ppm	5.0753 ppm	0.0061 ppm
Concentration RSD	3.9 %	0.7 %	1,217.5 %	1.2 %	4.2 %	1.3 %	15.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	6.9237 ppm	0.0608 ppm	0.1255 ppm	4.0428 ppm	0.0050 ppm	0.3853 ppm
Concentration per Run 1	0.0038 ppm	6.6443 ppm	0.0600 ppm	0.1246 ppm	3.8983 ppm	0.0048 ppm	0.3689 ppm
Concentration per Run 2	0.0064 ppm	6.9079 ppm	0.0611 ppm	0.1258 ppm	4.0460 ppm	0.0042 ppm	0.3873 ppm
Concentration per Run 3	0.0052 ppm	7.2190 ppm	0.0612 ppm	0.1261 ppm	4.1842 ppm	0.0061 ppm	0.3997 ppm
Concentration RSD	24.8 %	4.2 %	1.2 %	0.6 %	3.5 %	18.8 %	4.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.4018 ppm	125.1894 %	118.8203 %	102.5666 %	127.0947 %	137.8621 %	128.4026 %
Concentration per Run 1	3.2719 ppm	130.1808 %	120.0384 %	104.0862 %	126.8117 %	138.3540 %	128.1613 %
Concentration per Run 2	3.4012 ppm	124.4008 %	118.6842 %	102.0019 %	126.8968 %	137.5515 %	128.2302 %
Concentration per Run 3	3.5323 ppm	120.9867 %	117.7383 %	101.6119 %	127.5757 %	137.6807 %	128.8164 %
Concentration RSD	3.8 %	3.7 %	1.0 %	1.3 %	0.3 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-11d2 WG1935620
Analysis started at: 6/18/2024 5:48:27 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	166.6310 ppm	0.2757 ppm	0.0758 ppm	1.8087 ppm	0.0159 ppm	33.9037 ppm
Concentration per Run 1	0.0011 ppm	167.1407 ppm	0.2743 ppm	0.0761 ppm	1.8133 ppm	0.0159 ppm	33.9243 ppm
Concentration per Run 2	0.0010 ppm	166.3009 ppm	0.2770 ppm	0.0740 ppm	1.8049 ppm	0.0160 ppm	33.8902 ppm
Concentration per Run 3	0.0009 ppm	166.4515 ppm	0.2759 ppm	0.0772 ppm	1.8080 ppm	0.0158 ppm	33.8967 ppm
Concentration RSD	12.0 %	0.3 %	0.5 %	2.2 %	0.2 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0273 ppm	0.1764 ppm	0.3956 ppm	1.3735 ppm	339.4207 ppm	37.2257 ppm	0.3688 ppm
Concentration per Run 1	0.0272 ppm	0.1765 ppm	0.3943 ppm	1.3661 ppm	339.6815 ppm	37.3699 ppm	0.3717 ppm
Concentration per Run 2	0.0271 ppm	0.1752 ppm	0.3955 ppm	1.3752 ppm	339.0111 ppm	37.2336 ppm	0.3661 ppm
Concentration per Run 3	0.0275 ppm	0.1776 ppm	0.3970 ppm	1.3793 ppm	339.5693 ppm	37.0737 ppm	0.3686 ppm
Concentration RSD	0.8 %	0.7 %	0.3 %	0.5 %	0.1 %	0.4 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	78.5329 ppm	10.1753 ppm	0.0025 ppm	2.6400 ppm	0.2883 ppm	7.3912 ppm	0.0128 ppm
Concentration per Run 1	78.6291 ppm	10.1875 ppm	0.0027 ppm	2.6397 ppm	0.2876 ppm	7.3772 ppm	0.0097 ppm
Concentration per Run 2	78.3150 ppm	10.1661 ppm	0.0020 ppm	2.6441 ppm	0.2887 ppm	7.3902 ppm	0.0123 ppm
Concentration per Run 3	78.6544 ppm	10.1724 ppm	0.0027 ppm	2.6362 ppm	0.2887 ppm	7.4061 ppm	0.0163 ppm
Concentration RSD	0.2 %	0.1 %	16.4 %	0.1 %	0.2 %	0.2 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	7.3841 ppm	0.0524 ppm	0.3836 ppm	5.4986 ppm	0.0053 ppm	0.5734 ppm
Concentration per Run 1	0.0044 ppm	7.4614 ppm	0.0529 ppm	0.3832 ppm	5.4800 ppm	0.0038 ppm	0.5719 ppm
Concentration per Run 2	0.0023 ppm	7.4216 ppm	0.0516 ppm	0.3859 ppm	5.5094 ppm	0.0060 ppm	0.5735 ppm
Concentration per Run 3	0.0019 ppm	7.2693 ppm	0.0526 ppm	0.3817 ppm	5.5064 ppm	0.0062 ppm	0.5749 ppm
Concentration RSD	45.7 %	1.4 %	1.3 %	0.6 %	0.3 %	25.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.4800 ppm	107.4581 %	118.6285 %	93.1461 %	128.2719 %	144.2352 %	129.2581 %
Concentration per Run 1	6.5005 ppm	107.0142 %	119.1956 %	93.1138 %	127.6946 %	144.9815 %	129.0419 %
Concentration per Run 2	6.4618 ppm	108.3096 %	118.8417 %	93.0745 %	129.1425 %	144.6731 %	129.0032 %
Concentration per Run 3	6.4778 ppm	107.0506 %	117.8481 %	93.2500 %	127.9784 %	143.0510 %	129.7292 %
Concentration RSD	0.3 %	0.7 %	0.6 %	0.1 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-13d2 WG1935620
Analysis started at: 6/18/2024 5:52:26 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	212.2111 ppm	0.1060 ppm	0.0386 ppm	0.8468 ppm	0.0118 ppm	9.3497 ppm
Concentration per Run 1	0.0016 ppm	211.0490 ppm	0.1043 ppm	0.0373 ppm	0.8441 ppm	0.0117 ppm	9.2731 ppm
Concentration per Run 2	0.0019 ppm	212.7499 ppm	0.1077 ppm	0.0380 ppm	0.8525 ppm	0.0118 ppm	9.3840 ppm
Concentration per Run 3	0.0012 ppm	212.8343 ppm	0.1059 ppm	0.0406 ppm	0.8437 ppm	0.0118 ppm	9.3920 ppm
Concentration RSD	21.9 %	0.5 %	1.6 %	4.5 %	0.6 %	0.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0026 ppm	0.1246 ppm	0.3881 ppm	10.7786 ppm	239.7996 ppm	43.1880 ppm	0.3603 ppm
Concentration per Run 1	0.0026 ppm	0.1246 ppm	0.3890 ppm	10.7821 ppm	238.7335 ppm	43.1960 ppm	0.3578 ppm
Concentration per Run 2	0.0027 ppm	0.1243 ppm	0.3870 ppm	10.7941 ppm	240.1559 ppm	43.4017 ppm	0.3631 ppm
Concentration per Run 3	0.0025 ppm	0.1249 ppm	0.3885 ppm	10.7595 ppm	240.5094 ppm	42.9664 ppm	0.3599 ppm
Concentration RSD	3.1 %	0.2 %	0.3 %	0.2 %	0.4 %	0.5 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	82.5114 ppm	7.7282 ppm	0.0052 ppm	1.0250 ppm	0.2486 ppm	5.0861 ppm	0.0472 ppm
Concentration per Run 1	82.9523 ppm	7.6721 ppm	0.0052 ppm	1.0108 ppm	0.2500 ppm	5.0829 ppm	0.0446 ppm
Concentration per Run 2	82.2555 ppm	7.7481 ppm	0.0053 ppm	1.0398 ppm	0.2479 ppm	5.0820 ppm	0.0457 ppm
Concentration per Run 3	82.3264 ppm	7.7643 ppm	0.0051 ppm	1.0245 ppm	0.2477 ppm	5.0933 ppm	0.0514 ppm
Concentration RSD	0.5 %	0.6 %	2.0 %	1.4 %	0.5 %	0.1 %	7.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0081 ppm	7.9092 ppm	0.0560 ppm	0.0929 ppm	5.6294 ppm	0.0052 ppm	0.5114 ppm
Concentration per Run 1	0.0045 ppm	8.0023 ppm	0.0569 ppm	0.0924 ppm	5.6396 ppm	0.0067 ppm	0.5137 ppm
Concentration per Run 2	0.0083 ppm	7.8726 ppm	0.0552 ppm	0.0928 ppm	5.6100 ppm	0.0052 ppm	0.5095 ppm
Concentration per Run 3	0.0113 ppm	7.8526 ppm	0.0559 ppm	0.0934 ppm	5.6385 ppm	0.0038 ppm	0.5109 ppm
Concentration RSD	42.2 %	1.0 %	1.5 %	0.6 %	0.3 %	27.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9588 ppm	104.6592 %	117.2862 %	93.5941 %	131.9724 %	150.0339 %	133.6311 %
Concentration per Run 1	2.9816 ppm	103.9338 %	118.6835 %	93.3271 %	130.6783 %	150.5645 %	133.4397 %
Concentration per Run 2	2.9433 ppm	104.8988 %	116.6128 %	93.9049 %	132.1832 %	149.4353 %	133.8287 %
Concentration per Run 3	2.9516 ppm	105.1451 %	116.5623 %	93.5503 %	133.0557 %	150.1020 %	133.6248 %
Concentration RSD	0.7 %	0.6 %	1.0 %	0.3 %	0.9 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432914-15d2 WG1935620
Analysis started at: 6/18/2024 5:56:26 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	152.0389 ppm	0.1021 ppm	0.0513 ppm	1.5431 ppm	0.0105 ppm	12.7086 ppm
Concentration per Run 1	0.0004 ppm	152.8220 ppm	0.1032 ppm	0.0509 ppm	1.5473 ppm	0.0106 ppm	12.6932 ppm
Concentration per Run 2	0.0004 ppm	151.7440 ppm	0.1014 ppm	0.0522 ppm	1.5418 ppm	0.0106 ppm	12.7758 ppm
Concentration per Run 3	0.0002 ppm	151.5507 ppm	0.1017 ppm	0.0508 ppm	1.5402 ppm	0.0105 ppm	12.6568 ppm
Concentration RSD	25.7 %	0.5 %	0.9 %	1.5 %	0.2 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0086 ppm	0.1195 ppm	0.3202 ppm	0.7613 ppm	255.1566 ppm	30.3701 ppm	0.2834 ppm
Concentration per Run 1	0.0086 ppm	0.1194 ppm	0.3191 ppm	0.7609 ppm	255.6694 ppm	30.4797 ppm	0.2880 ppm
Concentration per Run 2	0.0086 ppm	0.1195 ppm	0.3215 ppm	0.7626 ppm	255.0646 ppm	30.4088 ppm	0.2816 ppm
Concentration per Run 3	0.0086 ppm	0.1195 ppm	0.3198 ppm	0.7603 ppm	254.7358 ppm	30.2219 ppm	0.2807 ppm
Concentration RSD	0.1 %	0.0 %	0.4 %	0.2 %	0.2 %	0.4 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.1105 ppm	5.6800 ppm	0.0008 ppm	2.5812 ppm	0.2115 ppm	6.0619 ppm	0.0831 ppm
Concentration per Run 1	61.1759 ppm	5.6883 ppm	0.0006 ppm	2.5761 ppm	0.2109 ppm	6.0617 ppm	0.0822 ppm
Concentration per Run 2	61.1810 ppm	5.6732 ppm	0.0007 ppm	2.6065 ppm	0.2128 ppm	6.0602 ppm	0.0817 ppm
Concentration per Run 3	60.9748 ppm	5.6785 ppm	0.0012 ppm	2.5610 ppm	0.2110 ppm	6.0640 ppm	0.0853 ppm
Concentration RSD	0.2 %	0.1 %	41.0 %	0.9 %	0.5 %	0.0 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	7.8438 ppm	0.0649 ppm	0.1134 ppm	4.8337 ppm	0.0030 ppm	0.4751 ppm
Concentration per Run 1	0.0028 ppm	7.8554 ppm	0.0649 ppm	0.1135 ppm	4.8323 ppm	0.0025 ppm	0.4744 ppm
Concentration per Run 2	0.0005 ppm	7.8666 ppm	0.0653 ppm	0.1135 ppm	4.8375 ppm	0.0027 ppm	0.4750 ppm
Concentration per Run 3	0.0045 ppm	7.8095 ppm	0.0646 ppm	0.1131 ppm	4.8314 ppm	0.0039 ppm	0.4760 ppm
Concentration RSD	77.3 %	0.4 %	0.5 %	0.2 %	0.1 %	24.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.6261 ppm	104.7725 %	115.6801 %	94.0801 %	117.1021 %	130.9853 %	118.7521 %
Concentration per Run 1	6.6048 ppm	104.3287 %	115.2073 %	94.0658 %	116.3949 %	131.0459 %	118.8661 %
Concentration per Run 2	6.6720 ppm	104.5727 %	116.0768 %	94.2031 %	117.1812 %	131.2333 %	118.7078 %
Concentration per Run 3	6.6015 ppm	105.4163 %	115.7562 %	93.9713 %	117.7302 %	130.6767 %	118.6822 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.1 %	0.6 %	0.2 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-01d2 WG1935620
Analysis started at: 6/18/2024 6:00:25 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	110.0564 ppm	0.0821 ppm	0.5643 ppm	5.0803 ppm	0.0444 ppm	811.1696 ppm
Concentration per Run 1	-0.0003 ppm	109.1054 ppm	0.0840 ppm	0.5635 ppm	5.0151 ppm	0.0456 ppm	820.9557 ppm
Concentration per Run 2	0.0001 ppm	111.7868 ppm	0.0796 ppm	0.5618 ppm	5.2232 ppm	0.0427 ppm	799.2451 ppm
Concentration per Run 3	0.0007 ppm	109.2771 ppm	0.0828 ppm	0.5675 ppm	5.0026 ppm	0.0450 ppm	813.3081 ppm
Concentration RSD	286.0 %	1.4 %	2.7 %	0.5 %	2.4 %	3.4 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0179 ppm	0.2145 ppm	0.4003 ppm	3.9160 ppm	225.9264 ppm	9.7555 ppm	0.1002 ppm
Concentration per Run 1	0.0179 ppm	0.2138 ppm	0.3992 ppm	3.9251 ppm	227.0969 ppm	9.4614 ppm	0.0971 ppm
Concentration per Run 2	0.0177 ppm	0.2140 ppm	0.3997 ppm	3.9028 ppm	224.1217 ppm	10.1485 ppm	0.1061 ppm
Concentration per Run 3	0.0180 ppm	0.2157 ppm	0.4020 ppm	3.9201 ppm	226.5606 ppm	9.6567 ppm	0.0976 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.3 %	0.7 %	3.6 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	50.8408 ppm	4.3637 ppm	0.1347 ppm	7.3865 ppm	1.7062 ppm	11.3349 ppm	0.0347 ppm
Concentration per Run 1	50.7663 ppm	4.3694 ppm	0.1316 ppm	7.6122 ppm	1.7082 ppm	11.3598 ppm	0.0299 ppm
Concentration per Run 2	50.8255 ppm	4.3722 ppm	0.1347 ppm	7.0972 ppm	1.6952 ppm	11.3085 ppm	0.0394 ppm
Concentration per Run 3	50.9306 ppm	4.3495 ppm	0.1377 ppm	7.4503 ppm	1.7152 ppm	11.3365 ppm	0.0347 ppm
Concentration RSD	0.2 %	0.3 %	2.3 %	3.6 %	0.6 %	0.2 %	13.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	**41.5489 ppm**	0.9637 ppm	3.6455 ppm	3.8201 ppm	0.0040 ppm	0.2804 ppm
Concentration per Run 1	-0.0021 ppm	41.5741 ppm	0.9678 ppm	3.7101 ppm	3.8141 ppm	0.0034 ppm	0.2808 ppm
Concentration per Run 2	0.0033 ppm	41.6567 ppm	0.9591 ppm	3.5453 ppm	3.8110 ppm	0.0038 ppm	0.2802 ppm
Concentration per Run 3	0.0005 ppm	41.4160 ppm	0.9642 ppm	3.6810 ppm	3.8351 ppm	0.0048 ppm	0.2803 ppm
Concentration RSD	464.6 %	0.3 %	0.5 %	2.4 %	0.3 %	18.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**25.8551 ppm**	95.4807 %	104.4001 %	83.6128 %	102.3577 %	117.1173 %	105.4713 %
Concentration per Run 1	25.9645 ppm	95.4814 %	100.5941 %	83.7000 %	102.5931 %	114.2697 %	105.8771 %
Concentration per Run 2	25.6239 ppm	95.5960 %	109.6335 %	83.5726 %	102.0425 %	121.0894 %	104.9060 %
Concentration per Run 3	25.9769 ppm	95.3646 %	102.9726 %	83.5657 %	102.4374 %	115.9928 %	105.6308 %
Concentration RSD	0.8 %	0.1 %	4.5 %	0.1 %	0.3 %	3.0 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-02d2 WG1935620
Analysis started at: 6/18/2024 6:04:24 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0109 ppm	41.3997 ppm	0.5796 ppm	0.1629 ppm	2.8625 ppm	0.0039 ppm	329.3869 ppm
Concentration per Run 1	0.0109 ppm	41.4706 ppm	0.5773 ppm	0.1642 ppm	2.8708 ppm	0.0039 ppm	329.1685 ppm
Concentration per Run 2	0.0108 ppm	41.3829 ppm	0.5853 ppm	0.1621 ppm	2.8594 ppm	0.0039 ppm	329.4812 ppm
Concentration per Run 3	0.0111 ppm	41.3454 ppm	0.5763 ppm	0.1623 ppm	2.8571 ppm	0.0039 ppm	329.5112 ppm
Concentration RSD	1.5 %	0.2 %	0.9 %	0.7 %	0.3 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0102 ppm	0.0552 ppm	0.3296 ppm	1.3672 ppm	77.6585 ppm	8.4407 ppm	0.0559 ppm
Concentration per Run 1	0.0103 ppm	0.0551 ppm	0.3340 ppm	1.3792 ppm	77.5215 ppm	8.4579 ppm	0.0573 ppm
Concentration per Run 2	0.0101 ppm	0.0552 ppm	0.3274 ppm	1.3624 ppm	77.9093 ppm	8.4395 ppm	0.0543 ppm
Concentration per Run 3	0.0101 ppm	0.0553 ppm	0.3275 ppm	1.3601 ppm	77.5446 ppm	8.4248 ppm	0.0561 ppm
Concentration RSD	1.1 %	0.2 %	1.1 %	0.8 %	0.3 %	0.2 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.5102 ppm	1.4306 ppm	0.0227 ppm	5.5183 ppm	0.2267 ppm	9.4266 ppm	0.0303 ppm
Concentration per Run 1	17.6581 ppm	1.4319 ppm	0.0223 ppm	5.5269 ppm	0.2285 ppm	9.4283 ppm	0.0263 ppm
Concentration per Run 2	17.4841 ppm	1.4314 ppm	0.0224 ppm	5.5288 ppm	0.2253 ppm	9.4994 ppm	0.0318 ppm
Concentration per Run 3	17.3884 ppm	1.4286 ppm	0.0232 ppm	5.4993 ppm	0.2263 ppm	9.3522 ppm	0.0327 ppm
Concentration RSD	0.8 %	0.1 %	2.1 %	0.3 %	0.7 %	0.8 %	11.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0084 ppm	7.2920 ppm	0.2555 ppm	1.2605 ppm	1.6365 ppm	0.0018 ppm	0.1461 ppm
Concentration per Run 1	0.0072 ppm	7.4304 ppm	0.2537 ppm	1.2595 ppm	1.6616 ppm	0.0015 ppm	0.1470 ppm
Concentration per Run 2	0.0092 ppm	7.3075 ppm	0.2555 ppm	1.2612 ppm	1.6385 ppm	0.0027 ppm	0.1460 ppm
Concentration per Run 3	0.0090 ppm	7.1382 ppm	0.2573 ppm	1.2608 ppm	1.6093 ppm	0.0010 ppm	0.1453 ppm
Concentration RSD	13.1 %	2.0 %	0.7 %	0.1 %	1.6 %	49.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.0220 ppm	98.2829 %	109.9276 %	91.9344 %	104.0721 %	116.8177 %	104.7969 %
Concentration per Run 1	7.0783 ppm	97.4234 %	111.0646 %	92.0720 %	103.6520 %	118.3368 %	105.1399 %
Concentration per Run 2	7.0003 ppm	98.2996 %	109.0376 %	91.7383 %	103.9612 %	115.8194 %	104.7265 %
Concentration per Run 3	6.9873 ppm	99.1256 %	109.6807 %	91.9931 %	104.6031 %	116.2969 %	104.5241 %
Concentration RSD	0.7 %	0.9 %	0.9 %	0.2 %	0.5 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-03d2 WG1935620
Analysis started at: 6/18/2024 6:08:23 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0264 ppm	67.4770 ppm	0.0730 ppm	0.3239 ppm	3.6359 ppm	0.0729 ppm	333.9324 ppm
Concentration per Run 1	0.0263 ppm	67.5959 ppm	0.0725 ppm	0.3260 ppm	3.6167 ppm	0.0727 ppm	333.6359 ppm
Concentration per Run 2	0.0263 ppm	67.3445 ppm	0.0737 ppm	0.3247 ppm	3.6423 ppm	0.0735 ppm	335.0718 ppm
Concentration per Run 3	0.0265 ppm	67.4907 ppm	0.0727 ppm	0.3210 ppm	3.6487 ppm	0.0726 ppm	333.0895 ppm
Concentration RSD	0.4 %	0.2 %	0.9 %	0.8 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0115 ppm	0.1820 ppm	0.3306 ppm	7.1015 ppm	178.7122 ppm	8.1095 ppm	0.0775 ppm
Concentration per Run 1	0.0113 ppm	0.1824 ppm	0.3293 ppm	7.1248 ppm	177.1869 ppm	8.1308 ppm	0.0778 ppm
Concentration per Run 2	0.0116 ppm	0.1823 ppm	0.3325 ppm	7.1078 ppm	180.5682 ppm	8.1901 ppm	0.0782 ppm
Concentration per Run 3	0.0114 ppm	0.1812 ppm	0.3299 ppm	7.0718 ppm	178.3815 ppm	8.0076 ppm	0.0763 ppm
Concentration RSD	1.3 %	0.3 %	0.5 %	0.4 %	1.0 %	1.1 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.4165 ppm	2.6907 ppm	0.1173 ppm	54.1665 ppm	1.6081 ppm	6.4228 ppm	0.0458 ppm
Concentration per Run 1	37.4748 ppm	2.6904 ppm	0.1143 ppm	53.9729 ppm	1.6043 ppm	6.4352 ppm	0.0475 ppm
Concentration per Run 2	37.4830 ppm	2.6959 ppm	0.1181 ppm	54.5031 ppm	1.6216 ppm	6.4085 ppm	0.0429 ppm
Concentration per Run 3	37.2916 ppm	2.6856 ppm	0.1196 ppm	54.0235 ppm	1.5983 ppm	6.4247 ppm	0.0469 ppm
Concentration RSD	0.3 %	0.2 %	2.3 %	0.5 %	0.8 %	0.2 %	5.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0062 ppm	16.6504 ppm	1.0164 ppm	1.1132 ppm	1.1523 ppm	0.0020 ppm	0.1970 ppm
Concentration per Run 1	0.0077 ppm	16.6897 ppm	1.0096 ppm	1.1070 ppm	1.1417 ppm	0.0010 ppm	0.1967 ppm
Concentration per Run 2	0.0046 ppm	16.6708 ppm	1.0261 ppm	1.1217 ppm	1.1647 ppm	0.0025 ppm	0.1976 ppm
Concentration per Run 3	0.0064 ppm	16.5907 ppm	1.0136 ppm	1.1110 ppm	1.1506 ppm	0.0024 ppm	0.1966 ppm
Concentration RSD	25.5 %	0.3 %	0.8 %	0.7 %	1.0 %	41.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.7991 ppm	96.0696 %	102.4060 %	89.8506 %	106.6781 %	118.2855 %	110.3151 %
Concentration per Run 1	19.7820 ppm	95.9265 %	103.8890 %	90.4838 %	106.7119 %	120.0880 %	111.1551 %
Concentration per Run 2	19.9364 ppm	95.9508 %	100.4703 %	89.5326 %	106.1746 %	116.0528 %	109.7207 %
Concentration per Run 3	19.6788 ppm	96.3316 %	102.8588 %	89.5356 %	107.1478 %	118.7156 %	110.0694 %
Concentration RSD	0.7 %	0.2 %	1.7 %	0.6 %	0.5 %	1.7 %	0.7 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: eL2433113-04d2 WG1935620
Analysis started at: 6/18/2024 6:12:23 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0124 ppm	135.4597 ppm	0.1508 ppm	2.2778 ppm	12.3512 ppm	0.1447 ppm	499.8197 ppm
Concentration per Run 1	0.0128 ppm	135.4069 ppm	0.1487 ppm	2.2850 ppm	12.3317 ppm	0.1446 ppm	499.7335 ppm
Concentration per Run 2	0.0126 ppm	135.8338 ppm	0.1526 ppm	2.2721 ppm	12.3475 ppm	0.1449 ppm	501.2786 ppm
Concentration per Run 3	0.0119 ppm	135.1385 ppm	0.1511 ppm	2.2763 ppm	12.3745 ppm	0.1445 ppm	498.4470 ppm
Concentration RSD	3.9 %	0.3 %	1.3 %	0.3 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0136 ppm	0.5494 ppm	0.9427 ppm	14.5864 ppm	436.5813 ppm	19.2444 ppm	0.1550 ppm
Concentration per Run 1	0.0137 ppm	0.5509 ppm	0.9443 ppm	14.6601 ppm	436.8210 ppm	19.2897 ppm	0.1561 ppm
Concentration per Run 2	0.0138 ppm	0.5467 ppm	0.9409 ppm	14.5320 ppm	436.6980 ppm	19.2464 ppm	0.1535 ppm
Concentration per Run 3	0.0132 ppm	0.5505 ppm	0.9429 ppm	14.5670 ppm	436.2250 ppm	19.1970 ppm	0.1553 ppm
Concentration RSD	2.5 %	0.4 %	0.2 %	0.5 %	0.1 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	47.9301 ppm	14.0724 ppm	0.4213 ppm	16.4638 ppm	4.5183 ppm	23.1891 ppm	0.0957 ppm
Concentration per Run 1	47.9068 ppm	14.0790 ppm	0.4146 ppm	16.4598 ppm	4.5278 ppm	23.0394 ppm	0.0958 ppm
Concentration per Run 2	47.9387 ppm	14.0918 ppm	0.4214 ppm	16.5047 ppm	4.5066 ppm	23.2775 ppm	0.0958 ppm
Concentration per Run 3	47.9449 ppm	14.0463 ppm	0.4278 ppm	16.4268 ppm	4.5206 ppm	23.2505 ppm	0.0954 ppm
Concentration RSD	0.0 %	0.2 %	1.6 %	0.2 %	0.2 %	0.6 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0191 ppm	52.2340 ppm	2.8707 ppm	1.7473 ppm	4.4653 ppm	0.0004 ppm	0.3846 ppm
Concentration per Run 1	0.0220 ppm	52.5130 ppm	2.8737 ppm	1.7487 ppm	4.4689 ppm	0.0030 ppm	0.3848 ppm
Concentration per Run 2	0.0189 ppm	52.1723 ppm	2.8581 ppm	1.7426 ppm	4.4514 ppm	0.0009 ppm	0.3835 ppm
Concentration per Run 3	0.0164 ppm	52.0167 ppm	2.8804 ppm	1.7504 ppm	4.4757 ppm	-0.0025 ppm	0.3855 ppm
Concentration RSD	14.6 %	0.5 %	0.4 %	0.2 %	0.3 %	622.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	64.4084 ppm	97.2709 %	108.9202 %	81.7878 %	106.6613 %	123.7465 %	108.6831 %
Concentration per Run 1	64.5196 ppm	97.5580 %	109.0428 %	82.3678 %	106.7790 %	124.1113 %	109.1134 %
Concentration per Run 2	64.2056 ppm	97.2608 %	108.2080 %	81.4562 %	106.6304 %	123.0236 %	108.4068 %
Concentration per Run 3	64.4999 ppm	96.9940 %	109.5098 %	81.5394 %	106.5745 %	124.1048 %	108.5291 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.6 %	0.1 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-05d2 WG1935620
Analysis started at: 6/18/2024 6:16:22 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0059 ppm	73.7386 ppm	0.1065 ppm	0.6332 ppm	2.4842 ppm	0.0607 ppm	858.5140 ppm
Concentration per Run 1	0.0063 ppm	73.8202 ppm	0.1042 ppm	0.6325 ppm	2.4871 ppm	0.0607 ppm	858.8733 ppm
Concentration per Run 2	0.0055 ppm	73.7017 ppm	0.1067 ppm	0.6330 ppm	2.4858 ppm	0.0606 ppm	858.1984 ppm
Concentration per Run 3	0.0060 ppm	73.6940 ppm	0.1086 ppm	0.6340 ppm	2.4798 ppm	0.0607 ppm	858.4704 ppm
Concentration RSD	6.5 %	0.1 %	2.1 %	0.1 %	0.2 %	0.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0111 ppm	0.2221 ppm	0.4508 ppm	7.3316 ppm	270.6917 ppm	11.9963 ppm	0.0704 ppm
Concentration per Run 1	0.0112 ppm	0.2231 ppm	0.4508 ppm	7.3515 ppm	271.0520 ppm	12.0578 ppm	0.0720 ppm
Concentration per Run 2	0.0110 ppm	0.2213 ppm	0.4510 ppm	7.3238 ppm	270.2431 ppm	11.9996 ppm	0.0706 ppm
Concentration per Run 3	0.0112 ppm	0.2217 ppm	0.4507 ppm	7.3194 ppm	270.7800 ppm	11.9316 ppm	0.0686 ppm
Concentration RSD	1.4 %	0.4 %	0.0 %	0.2 %	0.2 %	0.5 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.2823 ppm	3.6691 ppm	0.1934 ppm	9.4451 ppm	2.3944 ppm	8.2816 ppm	0.0800 ppm
Concentration per Run 1	105.4690 ppm	3.6693 ppm	0.1897 ppm	9.4541 ppm	2.3957 ppm	8.2506 ppm	0.0802 ppm
Concentration per Run 2	105.4202 ppm	3.6708 ppm	0.1933 ppm	9.4203 ppm	2.3933 ppm	8.3309 ppm	0.0819 ppm
Concentration per Run 3	104.9577 ppm	3.6673 ppm	0.1973 ppm	9.4607 ppm	2.3944 ppm	8.2633 ppm	0.0778 ppm
Concentration RSD	0.3 %	0.0 %	2.0 %	0.2 %	0.1 %	0.5 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	20.2960 ppm	2.0008 ppm	2.6540 ppm	2.6199 ppm	0.0026 ppm	0.2529 ppm
Concentration per Run 1	-0.0016 ppm	20.4401 ppm	1.9960 ppm	2.6629 ppm	2.6138 ppm	0.0020 ppm	0.2529 ppm
Concentration per Run 2	-0.0005 ppm	20.3760 ppm	2.0068 ppm	2.6492 ppm	2.6258 ppm	0.0044 ppm	0.2523 ppm
Concentration per Run 3	-0.0021 ppm	20.0719 ppm	1.9996 ppm	2.6497 ppm	2.6200 ppm	0.0014 ppm	0.2535 ppm
Concentration RSD	60.8 %	1.0 %	0.3 %	0.3 %	0.2 %	61.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	23.1418 ppm	94.9269 %	105.7293 %	82.9212 %	107.6344 %	121.9904 %	107.1311 %
Concentration per Run 1	23.1705 ppm	94.3450 %	105.8484 %	83.0867 %	106.7992 %	122.0244 %	106.9579 %
Concentration per Run 2	23.1246 ppm	94.9922 %	105.7695 %	82.8909 %	107.5811 %	121.9485 %	107.8906 %
Concentration per Run 3	23.1305 ppm	95.4434 %	105.5701 %	82.7858 %	108.5229 %	121.9984 %	106.5447 %
Concentration RSD	0.1 %	0.6 %	0.1 %	0.2 %	0.8 %	0.0 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-06d2 WG1935620
Analysis started at: 6/18/2024 6:20:20 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	89.3613 ppm	0.1176 ppm	0.7457 ppm	1.1448 ppm	0.0639 ppm	632.6460 ppm
Concentration per Run 1	-0.0001 ppm	90.8807 ppm	0.1195 ppm	0.7508 ppm	1.1831 ppm	0.0618 ppm	623.3376 ppm
Concentration per Run 2	-0.0010 ppm	88.7434 ppm	0.1189 ppm	0.7399 ppm	1.1413 ppm	0.0651 ppm	638.9729 ppm
Concentration per Run 3	0.0000 ppm	88.4598 ppm	0.1144 ppm	0.7463 ppm	1.1100 ppm	0.0646 ppm	635.6274 ppm
Concentration RSD	152.3 %	1.5 %	2.3 %	0.7 %	3.2 %	2.8 %	1.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0098 ppm	0.2883 ppm	0.6016 ppm	7.4605 ppm	301.6466 ppm	11.1918 ppm	0.0883 ppm
Concentration per Run 1	0.0097 ppm	0.2902 ppm	0.6004 ppm	7.4829 ppm	301.1959 ppm	11.8468 ppm	0.0956 ppm
Concentration per Run 2	0.0097 ppm	0.2869 ppm	0.6022 ppm	7.4388 ppm	303.7023 ppm	10.9624 ppm	0.0850 ppm
Concentration per Run 3	0.0100 ppm	0.2877 ppm	0.6023 ppm	7.4598 ppm	300.0416 ppm	10.7663 ppm	0.0843 ppm
Concentration RSD	1.9 %	0.6 %	0.2 %	0.3 %	0.6 %	5.1 %	7.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	75.4603 ppm	4.4609 ppm	0.2237 ppm	9.1519 ppm	3.2593 ppm	15.5398 ppm	0.0964 ppm
Concentration per Run 1	75.5847 ppm	4.4651 ppm	0.2190 ppm	8.8060 ppm	3.2566 ppm	15.5773 ppm	0.0929 ppm
Concentration per Run 2	75.3997 ppm	4.4781 ppm	0.2238 ppm	9.3509 ppm	3.2769 ppm	15.6468 ppm	0.0934 ppm
Concentration per Run 3	75.3964 ppm	4.4394 ppm	0.2283 ppm	9.2988 ppm	3.2444 ppm	15.3954 ppm	0.1029 ppm
Concentration RSD	0.1 %	0.4 %	2.1 %	3.3 %	0.5 %	0.8 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0050 ppm	46.2614 ppm	1.7934 ppm	2.7849 ppm	3.1575 ppm	0.0030 ppm	0.2644 ppm
Concentration per Run 1	0.0075 ppm	46.4666 ppm	1.7802 ppm	2.7076 ppm	3.1544 ppm	0.0033 ppm	0.2636 ppm
Concentration per Run 2	0.0036 ppm	46.2951 ppm	1.8087 ppm	2.8334 ppm	3.1641 ppm	0.0020 ppm	0.2656 ppm
Concentration per Run 3	0.0039 ppm	46.0226 ppm	1.7912 ppm	2.8137 ppm	3.1541 ppm	0.0036 ppm	0.2640 ppm
Concentration RSD	43.8 %	0.5 %	0.8 %	2.4 %	0.2 %	27.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	33.6314 ppm	94.5568 %	103.7196 %	84.7438 %	100.7066 %	116.6743 %	105.5529 %
Concentration per Run 1	33.6005 ppm	94.6512 %	109.5118 %	85.0447 %	100.8084 %	121.1383 %	105.5359 %
Concentration per Run 2	33.8143 ppm	94.4157 %	100.3613 %	84.8805 %	100.4213 %	114.1310 %	105.7656 %
Concentration per Run 3	33.4794 ppm	94.6035 %	101.2856 %	84.3063 %	100.8902 %	114.7535 %	105.3572 %
Concentration RSD	0.5 %	0.1 %	4.9 %	0.5 %	0.2 %	3.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:24:20 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5237 ppm	0.4986 ppm	0.4964 ppm	0.5193 ppm	0.5279 ppm	0.5105 ppm	0.5184 ppm
Concentration per Run 1	0.5259 ppm	0.4971 ppm	0.4971 ppm	0.5233 ppm	0.5302 ppm	0.5109 ppm	0.5190 ppm
Concentration per Run 2	0.5223 ppm	0.4993 ppm	0.4994 ppm	0.5198 ppm	0.5287 ppm	0.5094 ppm	0.5198 ppm
Concentration per Run 3	0.5228 ppm	0.4993 ppm	0.4927 ppm	0.5147 ppm	0.5249 ppm	0.5113 ppm	0.5163 ppm
Recovery Percentage 1	104.735 %	99.712 %	99.276 %	103.851 %	105.584 %	102.107 %	103.678 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.8 %	0.5 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5293 ppm	0.5348 ppm	0.5218 ppm	0.5089 ppm	0.5095 ppm	5.3181 ppm	0.4959 ppm
Concentration per Run 1	0.5313 ppm	0.5368 ppm	0.5237 ppm	0.5107 ppm	0.5120 ppm	5.3632 ppm	0.5026 ppm
Concentration per Run 2	0.5286 ppm	0.5343 ppm	0.5207 ppm	0.5073 ppm	0.5081 ppm	5.3382 ppm	0.4988 ppm
Concentration per Run 3	0.5279 ppm	0.5334 ppm	0.5211 ppm	0.5087 ppm	0.5084 ppm	5.2531 ppm	0.4863 ppm
Recovery Percentage 1	105.857 %	106.966 %	104.364 %	101.777 %	101.900 %	106.363 %	99.182 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	0.4 %	1.1 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5189 ppm	0.4741 ppm	0.5228 ppm	11.0115 ppm	0.5419 ppm	0.5119 ppm	0.5146 ppm
Concentration per Run 1	0.5246 ppm	0.4750 ppm	0.5168 ppm	10.9842 ppm	0.5443 ppm	0.5152 ppm	0.5155 ppm
Concentration per Run 2	0.5169 ppm	0.4745 ppm	0.5226 ppm	11.0053 ppm	0.5393 ppm	0.5104 ppm	0.5114 ppm
Concentration per Run 3	0.5151 ppm	0.4728 ppm	0.5289 ppm	11.0450 ppm	0.5421 ppm	0.5103 ppm	0.5168 ppm
Recovery Percentage 1	103.770 %	94.814 %	104.555 %	110.115 %	108.384 %	102.390 %	102.911 %
Concentration RSD	1.0 %	0.2 %	1.2 %	0.3 %	0.5 %	0.5 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5130 ppm	5.5024 ppm	0.5373 ppm	0.5314 ppm	0.5313 ppm	0.4996 ppm	0.5234 ppm
Concentration per Run 1	0.5123 ppm	5.5208 ppm	0.5382 ppm	0.5328 ppm	0.5342 ppm	0.5005 ppm	0.5257 ppm
Concentration per Run 2	0.5175 ppm	5.4818 ppm	0.5363 ppm	0.5290 ppm	0.5302 ppm	0.5002 ppm	0.5226 ppm
Concentration per Run 3	0.5093 ppm	5.5045 ppm	0.5375 ppm	0.5323 ppm	0.5296 ppm	0.4981 ppm	0.5220 ppm
Recovery Percentage 1	102.608 %	104.807 %	107.465 %	106.273 %	106.268 %	99.920 %	104.684 %
Concentration RSD	0.8 %	0.4 %	0.2 %	0.4 %	0.5 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5480 ppm	97.9493 %	105.7349 %	97.8738 %	96.7361 %	104.0002 %	97.9955 %
Concentration per Run 1	0.5505 ppm	97.4211 %	106.1529 %	97.5388 %	96.4592 %	104.5825 %	97.6878 %
Concentration per Run 2	0.5478 ppm	97.7471 %	105.7073 %	98.3973 %	96.5366 %	104.2187 %	98.6220 %
Concentration per Run 3	0.5457 ppm	98.6797 %	105.3445 %	97.6854 %	97.2125 %	103.1994 %	97.6767 %
Recovery Percentage 1	109.605 %						
Concentration RSD	0.4 %	0.7 %	0.4 %	0.5 %	0.4 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:28:19 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0231 ppm	0.0007 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0061 ppm
Concentration per Run 1	-0.0005 ppm	-0.0339 ppm	0.0021 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	-0.0006 ppm	-0.0265 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 3	-0.0001 ppm	-0.0088 ppm	0.0000 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	0.0072 ppm
Recovery Percentage 1	-5.557 %	-23.052 %	24.756 %	2.005 %	-2.569 %	0.165 %	6.104 %
Concentration RSD	55.4 %	55.9 %	153.3 %	144.7 %	39.3 %	571.0 %	34.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0065 ppm	-0.0437 ppm	-0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0072 ppm	-0.0438 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0055 ppm	-0.0366 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0069 ppm	-0.0507 ppm	-0.0034 ppm
Recovery Percentage 1	0.194 %	-1.016 %	0.438 %	2.220 %	13.078 %	-1.748 %	-23.089 %
Concentration RSD	501.5 %	124.9 %	180.2 %	173.8 %	13.6 %	16.1 %	41.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0002 ppm	-0.0017 ppm	0.0291 ppm	0.0004 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	-0.0016 ppm	-0.0001 ppm	-0.0016 ppm	0.0320 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	0.0004 ppm	-0.0015 ppm	0.0278 ppm	0.0005 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0020 ppm	0.0275 ppm	0.0006 ppm	-0.0008 ppm	-0.0019 ppm
Recovery Percentage 1	-1.292 %	2.139 %	-3.381 %	1.455 %	1.580 %	-0.353 %	-1.047 %
Concentration RSD	77.8 %	120.4 %	14.7 %	8.5 %	69.7 %	1,960.7 %	234.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.0233 ppm	0.0010 ppm	-0.0001 ppm	0.0005 ppm	-0.0013 ppm	-0.0004 ppm
Concentration per Run 1	-0.0003 ppm	0.0277 ppm	0.0015 ppm	0.0000 ppm	0.0005 ppm	-0.0016 ppm	-0.0006 ppm
Concentration per Run 2	-0.0028 ppm	0.0231 ppm	0.0008 ppm	-0.0002 ppm	0.0006 ppm	-0.0025 ppm	-0.0006 ppm
Concentration per Run 3	0.0046 ppm	0.0191 ppm	0.0008 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	5.101 %	4.660 %	2.085 %	-1.185 %	5.092 %	-6.737 %	-4.457 %
Concentration RSD	741.7 %	18.5 %	41.4 %	63.8 %	23.6 %	95.4 %	57.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	91.6385 %	101.0125 %	94.0465 %	97.0603 %	103.7927 %	98.6657 %
Concentration per Run 1	0.0012 ppm	89.8577 %	100.9980 %	94.1317 %	96.0963 %	104.2701 %	99.2961 %
Concentration per Run 2	0.0013 ppm	92.1512 %	100.8651 %	93.7602 %	97.5332 %	103.6829 %	98.3275 %
Concentration per Run 3	0.0008 ppm	92.9065 %	101.1744 %	94.2476 %	97.5514 %	103.4250 %	98.3734 %
Recovery Percentage 1	21.671 %						
Concentration RSD	24.3 %	1.7 %	0.2 %	0.3 %	0.9 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 6:36:33 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5196 ppm	0.4955 ppm	0.4928 ppm	0.5132 ppm	0.5256 ppm	0.5070 ppm	0.4972 ppm
Concentration per Run 1	0.5205 ppm	0.4940 ppm	0.4932 ppm	0.5158 ppm	0.5225 ppm	0.5074 ppm	0.4974 ppm
Concentration per Run 2	0.5197 ppm	0.4959 ppm	0.4940 ppm	0.5120 ppm	0.5252 ppm	0.5057 ppm	0.5013 ppm
Concentration per Run 3	0.5186 ppm	0.4965 ppm	0.4911 ppm	0.5119 ppm	0.5292 ppm	0.5079 ppm	0.4928 ppm
Recovery Percentage 1	103.923 %	99.100 %	98.555 %	102.648 %	105.128 %	101.403 %	99.432 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.4 %	0.6 %	0.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5251 ppm	0.5318 ppm	0.5184 ppm	0.5063 ppm	0.4899 ppm	5.2770 ppm	0.4959 ppm
Concentration per Run 1	0.5297 ppm	0.5348 ppm	0.5214 ppm	0.5077 ppm	0.4904 ppm	5.2761 ppm	0.4956 ppm
Concentration per Run 2	0.5234 ppm	0.5305 ppm	0.5186 ppm	0.5064 ppm	0.4877 ppm	5.2793 ppm	0.4969 ppm
Concentration per Run 3	0.5222 ppm	0.5300 ppm	0.5152 ppm	0.5047 ppm	0.4916 ppm	5.2757 ppm	0.4954 ppm
Recovery Percentage 1	105.017 %	106.357 %	103.684 %	101.257 %	97.982 %	105.541 %	99.189 %
Concentration RSD	0.8 %	0.5 %	0.6 %	0.3 %	0.4 %	0.0 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5128 ppm	0.4717 ppm	0.5184 ppm	11.0071 ppm	0.5362 ppm	0.5073 ppm	0.5113 ppm
Concentration per Run 1	0.5147 ppm	0.4711 ppm	0.5162 ppm	11.0059 ppm	0.5378 ppm	0.5083 ppm	0.5115 ppm
Concentration per Run 2	0.5106 ppm	0.4720 ppm	0.5163 ppm	11.0001 ppm	0.5360 ppm	0.5095 ppm	0.5062 ppm
Concentration per Run 3	0.5130 ppm	0.4721 ppm	0.5228 ppm	11.0152 ppm	0.5347 ppm	0.5041 ppm	0.5163 ppm
Recovery Percentage 1	102.557 %	94.345 %	103.686 %	110.071 %	107.234 %	101.459 %	102.263 %
Concentration RSD	0.4 %	0.1 %	0.7 %	0.1 %	0.3 %	0.6 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5117 ppm	5.4141 ppm	0.5294 ppm	0.5286 ppm	0.5233 ppm	0.5002 ppm	0.5192 ppm
Concentration per Run 1	0.5127 ppm	5.4566 ppm	0.5302 ppm	0.5283 ppm	0.5249 ppm	0.5008 ppm	0.5214 ppm
Concentration per Run 2	0.5131 ppm	5.3973 ppm	0.5254 ppm	0.5288 ppm	0.5246 ppm	0.5018 ppm	0.5181 ppm
Concentration per Run 3	0.5094 ppm	5.3884 ppm	0.5325 ppm	0.5287 ppm	0.5203 ppm	0.4981 ppm	0.5181 ppm
Recovery Percentage 1	102.346 %	103.126 %	105.874 %	105.721 %	104.654 %	100.048 %	103.842 %
Concentration RSD	0.4 %	0.7 %	0.7 %	0.1 %	0.5 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5399 ppm	98.7483 %	106.1600 %	98.6941 %	97.3702 %	104.1492 %	98.4741 %
Concentration per Run 1	0.5435 ppm	98.4004 %	106.1712 %	98.7349 %	97.2484 %	104.2305 %	98.6170 %
Concentration per Run 2	0.5378 ppm	98.8506 %	105.5609 %	98.3761 %	97.5269 %	103.6222 %	98.5714 %
Concentration per Run 3	0.5386 ppm	98.9939 %	106.7479 %	98.9714 %	97.3353 %	104.5948 %	98.2338 %
Recovery Percentage 1	107.988 %						
Concentration RSD	0.6 %	0.3 %	0.6 %	0.3 %	0.1 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 6:40:38 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0184 ppm	0.0007 ppm	0.0009 ppm	-0.0005 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	0.0002 ppm	-0.0210 ppm	0.0007 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 2	-0.0008 ppm	-0.0190 ppm	0.0023 ppm	0.0011 ppm	-0.0004 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 3	0.0002 ppm	-0.0152 ppm	-0.0010 ppm	0.0016 ppm	-0.0004 ppm	0.0000 ppm	-0.0019 ppm
Recovery Percentage 1	-1.531 %	-18.432 %	22.268 %	3.160 %	-4.527 %	0.691 %	3.156 %
Concentration RSD	559.9 %	16.0 %	246.9 %	77.5 %	26.1 %	114.3 %	148.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0042 ppm	-0.0595 ppm	-0.0036 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0038 ppm	-0.0611 ppm	-0.0034 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0067 ppm	-0.0873 ppm	-0.0043 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0021 ppm	-0.0302 ppm	-0.0032 ppm
Recovery Percentage 1	-1.446 %	-0.028 %	0.880 %	0.937 %	8.388 %	-2.381 %	-36.382 %
Concentration RSD	84.2 %	8,695.5 %	252.5 %	255.5 %	55.1 %	48.0 %	15.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0003 ppm	-0.0016 ppm	0.0301 ppm	0.0000 ppm	-0.0003 ppm	-0.0036 ppm
Concentration per Run 1	0.0005 ppm	0.0003 ppm	-0.0019 ppm	0.0342 ppm	-0.0010 ppm	-0.0012 ppm	-0.0058 ppm
Concentration per Run 2	-0.0009 ppm	0.0004 ppm	-0.0017 ppm	0.0242 ppm	0.0002 ppm	0.0013 ppm	-0.0019 ppm
Concentration per Run 3	-0.0016 ppm	0.0002 ppm	-0.0012 ppm	0.0320 ppm	0.0007 ppm	-0.0009 ppm	-0.0030 ppm
Recovery Percentage 1	-0.679 %	3.001 %	-3.137 %	1.506 %	-0.071 %	-2.684 %	-7.150 %
Concentration RSD	153.8 %	48.3 %	22.7 %	17.5 %	5,189.2 %	503.6 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0077 ppm	0.0017 ppm	0.0000 ppm	0.0003 ppm	-0.0013 ppm	-0.0004 ppm
Concentration per Run 1	0.0014 ppm	0.0092 ppm	0.0024 ppm	0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0006 ppm
Concentration per Run 2	0.0023 ppm	0.0091 ppm	0.0011 ppm	0.0000 ppm	0.0004 ppm	-0.0024 ppm	-0.0003 ppm
Concentration per Run 3	0.0012 ppm	0.0049 ppm	0.0016 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	-0.0005 ppm
Recovery Percentage 1	16.465 %	1.545 %	3.438 %	-0.010 %	3.072 %	-6.620 %	-4.350 %
Concentration RSD	36.1 %	31.8 %	37.9 %	5,822.9 %	36.7 %	75.0 %	31.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	91.7205 %	100.9609 %	94.6379 %	97.5157 %	103.8826 %	99.3369 %
Concentration per Run 1	0.0011 ppm	90.6416 %	101.4439 %	94.2372 %	97.4192 %	104.7529 %	99.2813 %
Concentration per Run 2	0.0008 ppm	91.8259 %	100.2461 %	94.4456 %	97.4599 %	103.1979 %	98.9753 %
Concentration per Run 3	0.0010 ppm	92.6941 %	101.1926 %	95.2309 %	97.6681 %	103.6970 %	99.7540 %
Recovery Percentage 1	19.551 %						
Concentration RSD	14.3 %	1.1 %	0.6 %	0.6 %	0.1 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-07d2 WG1935620
Analysis started at: 6/18/2024 6:48:44 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	106.8474 ppm	0.1365 ppm	0.3802 ppm	4.0991 ppm	0.0423 ppm	583.0950 ppm
Concentration per Run 1	0.0017 ppm	106.4156 ppm	0.1340 ppm	0.3634 ppm	4.0791 ppm	0.0420 ppm	581.6572 ppm
Concentration per Run 2	0.0012 ppm	107.0841 ppm	0.1363 ppm	0.3836 ppm	4.0984 ppm	0.0421 ppm	581.4152 ppm
Concentration per Run 3	0.0011 ppm	107.0424 ppm	0.1393 ppm	0.3938 ppm	4.1198 ppm	0.0427 ppm	586.2126 ppm
Concentration RSD	26.0 %	0.4 %	1.9 %	4.1 %	0.5 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.1638 ppm	0.2862 ppm	3.2134 ppm	203.2613 ppm	14.6715 ppm	0.0888 ppm
Concentration per Run 1	0.0045 ppm	0.1569 ppm	0.2752 ppm	3.0737 ppm	202.6964 ppm	14.6470 ppm	0.0889 ppm
Concentration per Run 2	0.0045 ppm	0.1651 ppm	0.2869 ppm	3.2330 ppm	202.5102 ppm	14.6518 ppm	0.0884 ppm
Concentration per Run 3	0.0048 ppm	0.1694 ppm	0.2965 ppm	3.3336 ppm	204.5774 ppm	14.7157 ppm	0.0892 ppm
Concentration RSD	3.2 %	3.9 %	3.7 %	4.1 %	0.6 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.1366 ppm	3.5880 ppm	0.5112 ppm	11.0369 ppm	1.6929 ppm	8.5507 ppm	0.0367 ppm
Concentration per Run 1	37.6247 ppm	3.5822 ppm	0.4841 ppm	11.0500 ppm	1.6214 ppm	8.5024 ppm	0.0380 ppm
Concentration per Run 2	39.2537 ppm	3.5826 ppm	0.5141 ppm	10.9857 ppm	1.6979 ppm	8.5151 ppm	0.0354 ppm
Concentration per Run 3	40.5313 ppm	3.5990 ppm	0.5353 ppm	11.0748 ppm	1.7595 ppm	8.6346 ppm	0.0368 ppm
Concentration RSD	3.7 %	0.3 %	5.0 %	0.4 %	4.1 %	0.9 %	3.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	10.4915 ppm	1.0523 ppm	3.4684 ppm	3.8310 ppm	0.0037 ppm	0.2805 ppm
Concentration per Run 1	0.0003 ppm	10.2016 ppm	1.0519 ppm	3.4609 ppm	3.6707 ppm	0.0031 ppm	0.2682 ppm
Concentration per Run 2	0.0025 ppm	10.4805 ppm	1.0506 ppm	3.4494 ppm	3.8454 ppm	0.0044 ppm	0.2815 ppm
Concentration per Run 3	0.0031 ppm	10.7923 ppm	1.0544 ppm	3.4949 ppm	3.9770 ppm	0.0035 ppm	0.2918 ppm
Concentration RSD	74.6 %	2.8 %	0.2 %	0.7 %	4.0 %	18.4 %	4.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	14.8897 ppm	113.7888 %	102.2060 %	91.8920 %	107.6553 %	113.6770 %	109.7992 %
Concentration per Run 1	14.2906 ppm	118.4842 %	102.3949 %	93.3061 %	107.7195 %	113.5348 %	109.8190 %
Concentration per Run 2	14.9257 ppm	113.3850 %	103.1543 %	91.5832 %	108.0146 %	114.6621 %	109.6890 %
Concentration per Run 3	15.4529 ppm	109.4972 %	101.0688 %	90.7866 %	107.2318 %	112.8340 %	109.8896 %
Concentration RSD	3.9 %	4.0 %	1.0 %	1.4 %	0.4 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-08d2 WG1935620
Analysis started at: 6/18/2024 6:53:05 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1492 ppm	105.7101 ppm	0.2012 ppm	0.2755 ppm	2.7844 ppm	0.0098 ppm	820.0876 ppm
Concentration per Run 1	0.1484 ppm	105.5917 ppm	0.2025 ppm	0.2744 ppm	2.7761 ppm	0.0098 ppm	820.2296 ppm
Concentration per Run 2	0.1498 ppm	105.8672 ppm	0.2009 ppm	0.2771 ppm	2.7985 ppm	0.0098 ppm	820.8929 ppm
Concentration per Run 3	0.1496 ppm	105.6715 ppm	0.2003 ppm	0.2750 ppm	2.7785 ppm	0.0099 ppm	819.1403 ppm
Concentration RSD	0.5 %	0.1 %	0.6 %	0.5 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0844 ppm	0.1013 ppm	0.5772 ppm	16.3390 ppm	241.6715 ppm	13.2856 ppm	0.2721 ppm
Concentration per Run 1	0.0840 ppm	0.1006 ppm	0.5756 ppm	16.2923 ppm	240.6744 ppm	13.2430 ppm	0.2733 ppm
Concentration per Run 2	0.0846 ppm	0.1009 ppm	0.5774 ppm	16.3526 ppm	242.5547 ppm	13.3509 ppm	0.2732 ppm
Concentration per Run 3	0.0844 ppm	0.1025 ppm	0.5787 ppm	16.3721 ppm	241.7855 ppm	13.2628 ppm	0.2698 ppm
Concentration RSD	0.3 %	1.0 %	0.3 %	0.3 %	0.4 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.7658 ppm	5.6038 ppm	0.1142 ppm	6.7574 ppm	0.7217 ppm	22.6245 ppm	0.2117 ppm
Concentration per Run 1	29.6635 ppm	5.5998 ppm	0.1118 ppm	6.7684 ppm	0.7162 ppm	22.5707 ppm	0.2084 ppm
Concentration per Run 2	29.7485 ppm	5.6099 ppm	0.1144 ppm	6.7533 ppm	0.7219 ppm	22.6114 ppm	0.2132 ppm
Concentration per Run 3	29.8854 ppm	5.6018 ppm	0.1163 ppm	6.7505 ppm	0.7271 ppm	22.6913 ppm	0.2136 ppm
Concentration RSD	0.4 %	0.1 %	2.0 %	0.1 %	0.8 %	0.3 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0169 ppm	5.6978 ppm	1.4097 ppm	2.2295 ppm	2.4701 ppm	0.0077 ppm	1.3707 ppm
Concentration per Run 1	0.0172 ppm	5.7161 ppm	1.4033 ppm	2.2191 ppm	2.4664 ppm	0.0067 ppm	1.3637 ppm
Concentration per Run 2	0.0188 ppm	5.7608 ppm	1.4119 ppm	2.2343 ppm	2.4783 ppm	0.0064 ppm	1.3691 ppm
Concentration per Run 3	0.0145 ppm	5.6164 ppm	1.4141 ppm	2.2349 ppm	2.4657 ppm	0.0099 ppm	1.3794 ppm
Concentration RSD	12.8 %	1.3 %	0.4 %	0.4 %	0.3 %	25.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	23.6740 ppm	98.1760 %	106.7970 %	86.3167 %	170.0245 %	190.2587 %	168.3947 %
Concentration per Run 1	23.5471 ppm	98.7573 %	107.3611 %	86.8817 %	170.4119 %	191.1077 %	169.1557 %
Concentration per Run 2	23.6995 ppm	98.2956 %	106.9846 %	86.3417 %	170.6091 %	190.9916 %	168.2665 %
Concentration per Run 3	23.7755 ppm	97.4751 %	106.0453 %	85.7266 %	169.0526 %	188.6766 %	167.7619 %
Concentration RSD	0.5 %	0.7 %	0.6 %	0.7 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-09d2 WG1935620
Analysis started at: 6/18/2024 6:57:05 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1382 ppm	73.7422 ppm	0.1543 ppm	0.3520 ppm	1.4522 ppm	0.0088 ppm	951.2656 ppm
Concentration per Run 1	0.1373 ppm	73.8232 ppm	0.1530 ppm	0.3497 ppm	1.4451 ppm	0.0086 ppm	952.1080 ppm
Concentration per Run 2	0.1383 ppm	73.7496 ppm	0.1589 ppm	0.3537 ppm	1.4681 ppm	0.0085 ppm	951.3119 ppm
Concentration per Run 3	0.1390 ppm	73.6538 ppm	0.1510 ppm	0.3525 ppm	1.4434 ppm	0.0091 ppm	950.3770 ppm
Concentration RSD	0.6 %	0.1 %	2.7 %	0.6 %	1.0 %	3.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0707 ppm	0.0854 ppm	0.9063 ppm	24.9742 ppm	230.4327 ppm	10.8419 ppm	0.0969 ppm
Concentration per Run 1	0.0702 ppm	0.0851 ppm	0.9034 ppm	24.9004 ppm	230.9810 ppm	10.8871 ppm	0.0962 ppm
Concentration per Run 2	0.0708 ppm	0.0850 ppm	0.9034 ppm	24.9293 ppm	230.7520 ppm	10.9072 ppm	0.0993 ppm
Concentration per Run 3	0.0711 ppm	0.0861 ppm	0.9122 ppm	25.0930 ppm	229.5651 ppm	10.7314 ppm	0.0952 ppm
Concentration RSD	0.6 %	0.7 %	0.6 %	0.4 %	0.3 %	0.9 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.2598 ppm	4.0471 ppm	0.0723 ppm	5.7092 ppm	0.5922 ppm	14.2262 ppm	0.2253 ppm
Concentration per Run 1	17.1707 ppm	4.0497 ppm	0.0704 ppm	5.7146 ppm	0.5865 ppm	14.2759 ppm	0.2187 ppm
Concentration per Run 2	17.2561 ppm	4.0502 ppm	0.0727 ppm	5.7006 ppm	0.5939 ppm	14.2676 ppm	0.2282 ppm
Concentration per Run 3	17.3525 ppm	4.0416 ppm	0.0739 ppm	5.7125 ppm	0.5961 ppm	14.1350 ppm	0.2289 ppm
Concentration RSD	0.5 %	0.1 %	2.5 %	0.1 %	0.8 %	0.6 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0108 ppm	6.4503 ppm	0.4064 ppm	2.8883 ppm	2.5600 ppm	0.0060 ppm	0.7091 ppm
Concentration per Run 1	0.0132 ppm	6.4810 ppm	0.4055 ppm	2.8969 ppm	2.5372 ppm	0.0052 ppm	0.7035 ppm
Concentration per Run 2	0.0104 ppm	6.4561 ppm	0.4097 ppm	2.8895 ppm	2.5615 ppm	0.0067 ppm	0.7103 ppm
Concentration per Run 3	0.0088 ppm	6.4138 ppm	0.4040 ppm	2.8786 ppm	2.5813 ppm	0.0059 ppm	0.7135 ppm
Concentration RSD	20.6 %	0.5 %	0.7 %	0.3 %	0.9 %	12.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	24.4908 ppm	96.3649 %	104.5940 %	84.4227 %	158.7600 %	176.9103 %	156.8771 %
Concentration per Run 1	24.3258 ppm	96.7114 %	104.3932 %	84.8551 %	157.9080 %	176.4356 %	157.2604 %
Concentration per Run 2	24.4782 ppm	96.5827 %	104.4652 %	84.2720 %	159.3092 %	176.6887 %	157.3170 %
Concentration per Run 3	24.6685 ppm	95.8006 %	104.9236 %	84.1411 %	159.0628 %	177.6068 %	156.0538 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.5 %	0.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-10d2 WG1935620
Analysis started at: 6/18/2024 7:01:05 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	61.3097 ppm	0.1287 ppm	0.1532 ppm	4.2079 ppm	0.0087 ppm	437.9327 ppm
Concentration per Run 1	0.0022 ppm	61.0072 ppm	0.1281 ppm	0.1530 ppm	4.2008 ppm	0.0086 ppm	436.2875 ppm
Concentration per Run 2	0.0025 ppm	61.4657 ppm	0.1278 ppm	0.1519 ppm	4.2220 ppm	0.0086 ppm	438.1437 ppm
Concentration per Run 3	0.0029 ppm	61.4562 ppm	0.1303 ppm	0.1547 ppm	4.2010 ppm	0.0087 ppm	439.3669 ppm
Concentration RSD	14.5 %	0.4 %	1.0 %	0.9 %	0.3 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0176 ppm	0.0881 ppm	0.2586 ppm	1.4320 ppm	136.3426 ppm	14.7085 ppm	0.0912 ppm
Concentration per Run 1	0.0177 ppm	0.0891 ppm	0.2593 ppm	1.4328 ppm	135.9706 ppm	14.7131 ppm	0.0934 ppm
Concentration per Run 2	0.0175 ppm	0.0878 ppm	0.2572 ppm	1.4309 ppm	136.7038 ppm	14.7898 ppm	0.0909 ppm
Concentration per Run 3	0.0177 ppm	0.0875 ppm	0.2592 ppm	1.4323 ppm	136.3534 ppm	14.6225 ppm	0.0892 ppm
Concentration RSD	0.6 %	0.9 %	0.5 %	0.1 %	0.3 %	0.6 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.6695 ppm	2.5294 ppm	0.0332 ppm	5.1565 ppm	0.5004 ppm	9.3293 ppm	0.0217 ppm
Concentration per Run 1	46.8335 ppm	2.5162 ppm	0.0328 ppm	5.1647 ppm	0.5015 ppm	9.3409 ppm	0.0171 ppm
Concentration per Run 2	46.6423 ppm	2.5335 ppm	0.0329 ppm	5.1411 ppm	0.4973 ppm	9.3093 ppm	0.0253 ppm
Concentration per Run 3	46.5326 ppm	2.5385 ppm	0.0340 ppm	5.1639 ppm	0.5024 ppm	9.3377 ppm	0.0228 ppm
Concentration RSD	0.3 %	0.5 %	2.0 %	0.3 %	0.5 %	0.2 %	19.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	6.5815 ppm	0.3260 ppm	2.0924 ppm	3.0147 ppm	0.0039 ppm	0.2469 ppm
Concentration per Run 1	-0.0003 ppm	6.6840 ppm	0.3286 ppm	2.0889 ppm	3.0368 ppm	0.0035 ppm	0.2480 ppm
Concentration per Run 2	0.0039 ppm	6.4834 ppm	0.3233 ppm	2.0937 ppm	3.0133 ppm	0.0033 ppm	0.2461 ppm
Concentration per Run 3	0.0047 ppm	6.5770 ppm	0.3260 ppm	2.0946 ppm	2.9940 ppm	0.0048 ppm	0.2467 ppm
Concentration RSD	96.2 %	1.5 %	0.8 %	0.1 %	0.7 %	22.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.6457 ppm	96.6164 %	106.2774 %	88.0544 %	103.1174 %	114.6732 %	103.5692 %
Concentration per Run 1	8.6971 ppm	96.1382 %	106.4030 %	88.2328 %	102.7319 %	114.6330 %	103.6206 %
Concentration per Run 2	8.5874 ppm	96.5561 %	106.3587 %	88.0276 %	102.9977 %	114.8340 %	103.6191 %
Concentration per Run 3	8.6526 ppm	97.1547 %	106.0705 %	87.9028 %	103.6227 %	114.5528 %	103.4678 %
Concentration RSD	0.6 %	0.5 %	0.2 %	0.2 %	0.4 %	0.1 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-11d2 WG1935620
Analysis started at: 6/18/2024 7:05:05 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0066 ppm	73.4236 ppm	0.1406 ppm	0.2153 ppm	3.9939 ppm	0.0142 ppm	466.8890 ppm
Concentration per Run 1	0.0066 ppm	73.4083 ppm	0.1393 ppm	0.2143 ppm	3.9948 ppm	0.0142 ppm	467.1667 ppm
Concentration per Run 2	0.0066 ppm	73.6786 ppm	0.1413 ppm	0.2145 ppm	4.0064 ppm	0.0142 ppm	467.8259 ppm
Concentration per Run 3	0.0067 ppm	73.1839 ppm	0.1413 ppm	0.2172 ppm	3.9806 ppm	0.0142 ppm	465.6743 ppm
Concentration RSD	1.0 %	0.3 %	0.8 %	0.7 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0141 ppm	0.1241 ppm	0.5153 ppm	7.4702 ppm	269.1656 ppm	12.2542 ppm	0.1227 ppm
Concentration per Run 1	0.0142 ppm	0.1242 ppm	0.5145 ppm	7.4906 ppm	269.6459 ppm	12.2739 ppm	0.1252 ppm
Concentration per Run 2	0.0139 ppm	0.1231 ppm	0.5146 ppm	7.4634 ppm	270.3031 ppm	12.3502 ppm	0.1213 ppm
Concentration per Run 3	0.0142 ppm	0.1250 ppm	0.5167 ppm	7.4566 ppm	267.5478 ppm	12.1385 ppm	0.1215 ppm
Concentration RSD	1.4 %	0.8 %	0.2 %	0.2 %	0.5 %	0.9 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	64.8850 ppm	3.3955 ppm	0.0629 ppm	4.3690 ppm	1.0384 ppm	13.9626 ppm	0.0390 ppm
Concentration per Run 1	64.9320 ppm	3.4012 ppm	0.0617 ppm	4.3787 ppm	1.0435 ppm	13.9618 ppm	0.0380 ppm
Concentration per Run 2	64.8793 ppm	3.3962 ppm	0.0630 ppm	4.3725 ppm	1.0398 ppm	14.0122 ppm	0.0411 ppm
Concentration per Run 3	64.8436 ppm	3.3891 ppm	0.0640 ppm	4.3558 ppm	1.0319 ppm	13.9138 ppm	0.0381 ppm
Concentration RSD	0.1 %	0.2 %	1.8 %	0.3 %	0.6 %	0.4 %	4.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	25.8697 ppm	0.6092 ppm	1.2586 ppm	2.8839 ppm	0.0027 ppm	0.3508 ppm
Concentration per Run 1	0.0020 ppm	26.0468 ppm	0.6086 ppm	1.2593 ppm	2.8940 ppm	0.0023 ppm	0.3494 ppm
Concentration per Run 2	-0.0018 ppm	25.9044 ppm	0.6087 ppm	1.2599 ppm	2.8902 ppm	0.0031 ppm	0.3511 ppm
Concentration per Run 3	-0.0011 ppm	25.6578 ppm	0.6103 ppm	1.2567 ppm	2.8676 ppm	0.0025 ppm	0.3519 ppm
Concentration RSD	670.8 %	0.8 %	0.2 %	0.1 %	0.5 %	15.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	12.7504 ppm	98.8090 %	107.2246 %	87.1158 %	109.4274 %	121.0698 %	108.7627 %
Concentration per Run 1	12.7871 ppm	98.4123 %	107.2914 %	87.2104 %	108.8921 %	121.1556 %	108.8831 %
Concentration per Run 2	12.7637 ppm	98.8088 %	106.5471 %	87.1948 %	109.6076 %	120.4046 %	109.1028 %
Concentration per Run 3	12.7003 ppm	99.2060 %	107.8354 %	86.9424 %	109.7825 %	121.6493 %	108.3023 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.2 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433113-04d4 WG1935620
Analysis started at: 6/18/2024 7:11:28 PM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	67.9346 ppm	0.0703 ppm	1.1681 ppm	6.2062 ppm	0.0744 ppm	260.4369 ppm
Concentration per Run 1	0.0053 ppm	67.2288 ppm	0.0703 ppm	1.1730 ppm	6.1290 ppm	0.0753 ppm	262.1835 ppm
Concentration per Run 2	0.0056 ppm	67.6099 ppm	0.0714 ppm	1.1629 ppm	6.1380 ppm	0.0753 ppm	261.0116 ppm
Concentration per Run 3	0.0056 ppm	68.9652 ppm	0.0691 ppm	1.1682 ppm	6.3515 ppm	0.0724 ppm	258.1156 ppm
Concentration RSD	3.6 %	1.3 %	1.7 %	0.4 %	2.0 %	2.3 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0071 ppm	0.2860 ppm	0.4811 ppm	7.3387 ppm	233.1998 ppm	9.6397 ppm	0.0757 ppm
Concentration per Run 1	0.0071 ppm	0.2868 ppm	0.4849 ppm	7.3321 ppm	233.2510 ppm	9.4562 ppm	0.0763 ppm
Concentration per Run 2	0.0071 ppm	0.2852 ppm	0.4800 ppm	7.3336 ppm	233.6345 ppm	9.5160 ppm	0.0723 ppm
Concentration per Run 3	0.0071 ppm	0.2858 ppm	0.4786 ppm	7.3505 ppm	232.7138 ppm	9.9469 ppm	0.0784 ppm
Concentration RSD	0.4 %	0.3 %	0.7 %	0.1 %	0.2 %	2.8 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.9534 ppm	7.1836 ppm	0.2095 ppm	7.9888 ppm	2.3439 ppm	11.2846 ppm	0.0470 ppm
Concentration per Run 1	25.0357 ppm	7.1667 ppm	0.2066 ppm	8.0664 ppm	2.3720 ppm	11.3282 ppm	0.0455 ppm
Concentration per Run 2	24.9245 ppm	7.1797 ppm	0.2095 ppm	8.0587 ppm	2.3373 ppm	11.2522 ppm	0.0467 ppm
Concentration per Run 3	24.9000 ppm	7.2044 ppm	0.2124 ppm	7.8414 ppm	2.3223 ppm	11.2735 ppm	0.0488 ppm
Concentration RSD	0.3 %	0.3 %	1.4 %	1.6 %	1.1 %	0.3 %	3.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0096 ppm	**26.6710 ppm**	**1.5888 ppm**	0.9101 ppm	2.2831 ppm	0.0010 ppm	0.1946 ppm
Concentration per Run 1	0.0105 ppm	26.6869 ppm	1.6024 ppm	0.9191 ppm	2.2933 ppm	0.0025 ppm	0.1956 ppm
Concentration per Run 2	0.0087 ppm	26.6725 ppm	1.5792 ppm	0.9220 ppm	2.2829 ppm	0.0004 ppm	0.1941 ppm
Concentration per Run 3	0.0095 ppm	26.6535 ppm	1.5847 ppm	0.8893 ppm	2.2733 ppm	0.0003 ppm	0.1941 ppm
Concentration RSD	9.2 %	0.1 %	0.8 %	2.0 %	0.4 %	118.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**37.9691 ppm**	96.3809 %	101.2451 %	88.6332 %	99.3760 %	108.1835 %	102.3008 %
Concentration per Run 1	38.4765 ppm	95.6187 %	98.9654 %	88.9260 %	98.4281 %	106.6033 %	102.6983 %
Concentration per Run 2	37.8147 ppm	96.7793 %	100.3191 %	88.3494 %	99.9345 %	107.4882 %	101.8757 %
Concentration per Run 3	37.6162 ppm	96.7447 %	104.4509 %	88.6241 %	99.7653 %	110.4590 %	102.3283 %
Concentration RSD	1.2 %	0.7 %	2.8 %	0.3 %	0.8 %	1.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 7:15:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5157 ppm	0.4902 ppm	0.4907 ppm	0.5098 ppm	0.5323 ppm	0.5007 ppm	0.4921 ppm
Concentration per Run 1	0.5152 ppm	0.4894 ppm	0.4911 ppm	0.5098 ppm	0.5335 ppm	0.5005 ppm	0.4921 ppm
Concentration per Run 2	0.5144 ppm	0.4903 ppm	0.4902 ppm	0.5070 ppm	0.5317 ppm	0.5009 ppm	0.4881 ppm
Concentration per Run 3	0.5176 ppm	0.4910 ppm	0.4908 ppm	0.5127 ppm	0.5316 ppm	0.5008 ppm	0.4959 ppm
Recovery Percentage 1	103.147 %	98.044 %	98.141 %	101.965 %	106.454 %	100.149 %	98.411 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.6 %	0.2 %	0.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5202 ppm	0.5265 ppm	0.5139 ppm	0.5031 ppm	0.4886 ppm	5.3420 ppm	0.4895 ppm
Concentration per Run 1	0.5223 ppm	0.5282 ppm	0.5155 ppm	0.5032 ppm	0.4894 ppm	5.3476 ppm	0.4924 ppm
Concentration per Run 2	0.5174 ppm	0.5244 ppm	0.5117 ppm	0.5024 ppm	0.4882 ppm	5.3569 ppm	0.4918 ppm
Concentration per Run 3	0.5208 ppm	0.5270 ppm	0.5145 ppm	0.5036 ppm	0.4883 ppm	5.3214 ppm	0.4841 ppm
Recovery Percentage 1	104.031 %	105.306 %	102.783 %	100.614 %	97.720 %	106.840 %	97.893 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.1 %	0.1 %	0.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5091 ppm	0.4661 ppm	0.5106 ppm	11.1755 ppm	0.5312 ppm	0.5059 ppm	0.5004 ppm
Concentration per Run 1	0.5112 ppm	0.4671 ppm	0.5052 ppm	11.1502 ppm	0.5325 ppm	0.5058 ppm	0.4991 ppm
Concentration per Run 2	0.5065 ppm	0.4650 ppm	0.5079 ppm	11.2197 ppm	0.5301 ppm	0.5069 ppm	0.4985 ppm
Concentration per Run 3	0.5094 ppm	0.4664 ppm	0.5186 ppm	11.1566 ppm	0.5311 ppm	0.5051 ppm	0.5036 ppm
Recovery Percentage 1	101.811 %	93.227 %	102.119 %	111.755 %	106.244 %	101.180 %	100.086 %
Concentration RSD	0.5 %	0.2 %	1.4 %	0.3 %	0.2 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5088 ppm	5.3942 ppm	0.5258 ppm	0.5279 ppm	0.5160 ppm	0.4994 ppm	0.5159 ppm
Concentration per Run 1	0.5096 ppm	5.4030 ppm	0.5275 ppm	0.5287 ppm	0.5166 ppm	0.5018 ppm	0.5162 ppm
Concentration per Run 2	0.5084 ppm	5.3712 ppm	0.5244 ppm	0.5276 ppm	0.5158 ppm	0.4997 ppm	0.5142 ppm
Concentration per Run 3	0.5084 ppm	5.4086 ppm	0.5256 ppm	0.5274 ppm	0.5157 ppm	0.4968 ppm	0.5174 ppm
Recovery Percentage 1	101.766 %	102.748 %	105.165 %	105.578 %	103.206 %	99.889 %	103.188 %
Concentration RSD	0.1 %	0.4 %	0.3 %	0.1 %	0.1 %	0.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5344 ppm	98.1206 %	103.7469 %	98.2187 %	96.7489 %	101.4923 %	98.0423 %
Concentration per Run 1	0.5374 ppm	97.4654 %	103.7206 %	98.3886 %	96.2552 %	101.8161 %	98.1299 %
Concentration per Run 2	0.5320 ppm	98.6922 %	104.1766 %	98.6659 %	97.2677 %	101.2986 %	98.3091 %
Concentration per Run 3	0.5338 ppm	98.2043 %	103.3436 %	97.6016 %	96.7239 %	101.3622 %	97.6879 %
Recovery Percentage 1	106.884 %						
Concentration RSD	0.5 %	0.6 %	0.4 %	0.6 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 7:19:33 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0295 ppm	-0.0006 ppm	0.0008 ppm	-0.0004 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 1	-0.0004 ppm	-0.0345 ppm	-0.0004 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 2	-0.0003 ppm	-0.0284 ppm	-0.0010 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	-0.0001 ppm	-0.0254 ppm	-0.0003 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0028 ppm
Recovery Percentage 1	-3.407 %	-29.451 %	-19.391 %	2.509 %	-3.662 %	0.872 %	3.289 %
Concentration RSD	64.0 %	15.8 %	66.9 %	101.1 %	39.6 %	93.9 %	74.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0061 ppm	-0.0597 ppm	-0.0040 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0055 ppm	-0.0806 ppm	-0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0067 ppm	-0.0683 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0061 ppm	-0.0303 ppm	-0.0052 ppm
Recovery Percentage 1	-0.924 %	1.324 %	-0.481 %	1.703 %	12.183 %	-2.389 %	-40.493 %
Concentration RSD	92.5 %	142.8 %	47.8 %	42.8 %	9.2 %	43.9 %	31.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	0.0003 ppm	-0.0016 ppm	0.0271 ppm	0.0005 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	-0.0018 ppm	0.0318 ppm	-0.0005 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 2	-0.0009 ppm	0.0005 ppm	-0.0015 ppm	0.0283 ppm	0.0010 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 3	-0.0030 ppm	0.0002 ppm	-0.0016 ppm	0.0214 ppm	0.0009 ppm	0.0000 ppm	-0.0015 ppm
Recovery Percentage 1	-1.644 %	2.575 %	-3.237 %	1.357 %	1.930 %	-2.824 %	-1.752 %
Concentration RSD	74.0 %	79.9 %	9.0 %	19.4 %	182.5 %	117.0 %	74.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0032 ppm	0.0175 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 1	0.0025 ppm	0.0155 ppm	0.0023 ppm	0.0002 ppm	0.0005 ppm	-0.0019 ppm	-0.0004 ppm
Concentration per Run 2	0.0031 ppm	0.0171 ppm	0.0010 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0042 ppm	0.0199 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	-0.0002 ppm
Recovery Percentage 1	32.468 %	3.497 %	2.497 %	1.433 %	3.093 %	-2.895 %	-2.875 %
Concentration RSD	25.9 %	12.7 %	73.7 %	79.0 %	66.3 %	254.8 %	34.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	91.1844 %	98.9517 %	94.1979 %	96.6805 %	101.6610 %	98.8499 %
Concentration per Run 1	0.0011 ppm	90.3495 %	98.2609 %	93.9263 %	96.8759 %	101.4241 %	98.7258 %
Concentration per Run 2	0.0011 ppm	91.3875 %	99.6357 %	94.1856 %	96.9641 %	102.2668 %	98.9444 %
Concentration per Run 3	0.0011 ppm	91.8161 %	98.9585 %	94.4818 %	96.2015 %	101.2921 %	98.8793 %
Recovery Percentage 1	22.204 %						
Concentration RSD	0.7 %	0.8 %	0.7 %	0.3 %	0.4 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-1 WG1935632
Analysis started at: 6/18/2024 7:43:52 PM
Rack 3
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0080 ppm	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0190 ppm
Concentration per Run 1	-0.0001 ppm	-0.0062 ppm	0.0009 ppm	-0.0003 ppm	-0.0005 ppm	0.0000 ppm	0.0186 ppm
Concentration per Run 2	-0.0003 ppm	-0.0109 ppm	-0.0017 ppm	0.0015 ppm	-0.0002 ppm	0.0000 ppm	0.0147 ppm
Concentration per Run 3	0.0001 ppm	-0.0068 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0237 ppm
Recovery Percentage 1	-1.477 %	-7.973 %	-1.881 %	1.621 %	-2.670 %	-0.541 %	18.970 %
Concentration RSD	200.1 %	31.9 %	2,600.0 %	191.5 %	100.2 %	165.2 %	23.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	-0.0008 ppm	0.0200 ppm	-0.0174 ppm	-0.0030 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0008 ppm	-0.0012 ppm	0.0208 ppm	0.0033 ppm	-0.0025 ppm
Concentration per Run 2	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	-0.0005 ppm	0.0201 ppm	-0.0295 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	0.0008 ppm	-0.0008 ppm	0.0191 ppm	-0.0260 ppm	-0.0026 ppm
Recovery Percentage 1	-1.770 %	-2.744 %	6.986 %	-8.283 %	40.009 %	-0.696 %	-30.146 %
Concentration RSD	47.9 %	12.6 %	23.3 %	40.7 %	4.2 %	103.4 %	25.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0042 ppm	0.0010 ppm	-0.0030 ppm	0.0501 ppm	-0.0004 ppm	0.0004 ppm	-0.0015 ppm
Concentration per Run 1	0.0047 ppm	0.0008 ppm	-0.0025 ppm	0.0532 ppm	0.0002 ppm	0.0006 ppm	-0.0013 ppm
Concentration per Run 2	0.0044 ppm	0.0010 ppm	-0.0036 ppm	0.0423 ppm	-0.0011 ppm	0.0007 ppm	-0.0016 ppm
Concentration per Run 3	0.0035 ppm	0.0011 ppm	-0.0029 ppm	0.0547 ppm	-0.0003 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	4.216 %	9.765 %	-6.032 %	2.503 %	-1.544 %	4.150 %	-3.037 %
Concentration RSD	14.8 %	17.5 %	17.7 %	13.5 %	169.9 %	89.1 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.0470 ppm	0.0015 ppm	0.0001 ppm	0.0015 ppm	-0.0021 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	0.0666 ppm	0.0014 ppm	0.0002 ppm	0.0012 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 2	0.0011 ppm	0.0391 ppm	0.0016 ppm	0.0000 ppm	0.0007 ppm	-0.0032 ppm	-0.0002 ppm
Concentration per Run 3	0.0029 ppm	0.0353 ppm	0.0014 ppm	0.0000 ppm	0.0026 ppm	-0.0012 ppm	-0.0002 ppm
Recovery Percentage 1	18.822 %	9.402 %	2.934 %	0.738 %	14.732 %	-10.333 %	-1.763 %
Concentration RSD	48.6 %	36.4 %	9.2 %	161.9 %	67.2 %	51.0 %	28.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	117.6719 %	105.0468 %	107.3608 %	101.0710 %	100.2814 %	100.3152 %
Concentration per Run 1	0.0038 ppm	121.3917 %	105.7131 %	108.5251 %	101.0743 %	100.3152 %	100.6266 %
Concentration per Run 2	0.0040 ppm	117.8909 %	105.3699 %	107.3084 %	101.2409 %	100.6362 %	99.7394 %
Concentration per Run 3	0.0043 ppm	113.7330 %	104.0573 %	106.2491 %	100.8979 %	99.8927 %	100.5797 %
Recovery Percentage 1	81.236 %						
Concentration RSD	6.2 %	3.3 %	0.8 %	1.1 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-2d2 WG1935632
Analysis started at: 6/18/2024 7:48:14 PM
Rack 3
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0506 ppm	2.0906 ppm	0.1166 ppm	0.9684 ppm	2.0606 ppm	0.0485 ppm	9.4506 ppm
Concentration per Run 1	0.0510 ppm	2.0953 ppm	0.1167 ppm	0.9709 ppm	2.0632 ppm	0.0486 ppm	9.4572 ppm
Concentration per Run 2	0.0508 ppm	2.0904 ppm	0.1172 ppm	0.9694 ppm	2.0560 ppm	0.0484 ppm	9.4228 ppm
Concentration per Run 3	0.0500 ppm	2.0861 ppm	0.1159 ppm	0.9650 ppm	2.0626 ppm	0.0485 ppm	9.4718 ppm
Concentration RSD	1.1 %	0.2 %	0.5 %	0.3 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0534 ppm	0.5074 ppm	0.2027 ppm	0.2515 ppm	0.9250 ppm	10.3484 ppm	-0.0024 ppm
Concentration per Run 1	0.0535 ppm	0.5085 ppm	0.2028 ppm	0.2522 ppm	0.9281 ppm	10.3898 ppm	-0.0033 ppm
Concentration per Run 2	0.0534 ppm	0.5079 ppm	0.2031 ppm	0.2516 ppm	0.9191 ppm	10.3158 ppm	-0.0033 ppm
Concentration per Run 3	0.0532 ppm	0.5057 ppm	0.2020 ppm	0.2508 ppm	0.9279 ppm	10.3395 ppm	-0.0006 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %	0.6 %	0.4 %	64.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7026 ppm	0.4552 ppm	0.9984 ppm	10.9069 ppm	0.5015 ppm	0.5305 ppm	0.5019 ppm
Concentration per Run 1	9.7423 ppm	0.4559 ppm	0.9834 ppm	10.9228 ppm	0.5030 ppm	0.5321 ppm	0.5013 ppm
Concentration per Run 2	9.6939 ppm	0.4546 ppm	1.0021 ppm	10.8866 ppm	0.4999 ppm	0.5287 ppm	0.5067 ppm
Concentration per Run 3	9.6715 ppm	0.4550 ppm	1.0098 ppm	10.9115 ppm	0.5015 ppm	0.5307 ppm	0.4976 ppm
Concentration RSD	0.4 %	0.1 %	1.4 %	0.2 %	0.3 %	0.3 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1201 ppm	0.9778 ppm	0.9503 ppm	0.9716 ppm	0.9967 ppm	0.1164 ppm	0.5149 ppm
Concentration per Run 1	0.1196 ppm	0.9838 ppm	0.9436 ppm	0.9762 ppm	1.0003 ppm	0.1163 ppm	0.5160 ppm
Concentration per Run 2	0.1214 ppm	0.9774 ppm	0.9506 ppm	0.9662 ppm	0.9955 ppm	0.1160 ppm	0.5149 ppm
Concentration per Run 3	0.1192 ppm	0.9722 ppm	0.9567 ppm	0.9725 ppm	0.9944 ppm	0.1170 ppm	0.5138 ppm
Concentration RSD	1.0 %	0.6 %	0.7 %	0.5 %	0.3 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5086 ppm	95.4214 %	102.1450 %	95.4484 %	95.0594 %	100.1722 %	95.7900 %
Concentration per Run 1	0.5101 ppm	94.4524 %	101.8877 %	95.2173 %	94.5062 %	100.0232 %	95.6692 %
Concentration per Run 2	0.5088 ppm	95.8724 %	102.7564 %	95.8323 %	95.6316 %	100.6616 %	96.0962 %
Concentration per Run 3	0.5070 ppm	95.9393 %	101.7909 %	95.2954 %	95.0405 %	99.8319 %	95.6045 %
Concentration RSD	0.3 %	0.9 %	0.5 %	0.4 %	0.6 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: eL2432952-02d2 WG1935632
Analysis started at: 6/18/2024 7:52:14 PM
Rack 3
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0155 ppm	68.7595 ppm	0.4432 ppm	0.2398 ppm	4.3240 ppm	0.0023 ppm	63.8872 ppm
Concentration per Run 1	0.0153 ppm	68.6807 ppm	0.4414 ppm	0.2388 ppm	4.3110 ppm	0.0023 ppm	63.7546 ppm
Concentration per Run 2	0.0161 ppm	68.8083 ppm	0.4436 ppm	0.2408 ppm	4.3272 ppm	0.0024 ppm	64.0203 ppm
Concentration per Run 3	0.0150 ppm	68.7893 ppm	0.4445 ppm	0.2400 ppm	4.3337 ppm	0.0023 ppm	63.8866 ppm
Concentration RSD	3.6 %	0.1 %	0.4 %	0.4 %	0.3 %	2.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0166 ppm	0.0493 ppm	0.2231 ppm	2.4998 ppm	520.6693 ppm	6.2409 ppm	0.0690 ppm
Concentration per Run 1	0.0166 ppm	0.0498 ppm	0.2208 ppm	2.4811 ppm	519.7727 ppm	6.2964 ppm	0.0698 ppm
Concentration per Run 2	0.0167 ppm	0.0494 ppm	0.2236 ppm	2.5075 ppm	521.2019 ppm	6.2316 ppm	0.0686 ppm
Concentration per Run 3	0.0165 ppm	0.0488 ppm	0.2249 ppm	2.5108 ppm	521.0334 ppm	6.1946 ppm	0.0686 ppm
Concentration RSD	0.5 %	1.1 %	1.0 %	0.7 %	0.2 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2282 ppm	2.3056 ppm	0.3383 ppm	3.8261 ppm	0.1231 ppm	4.9606 ppm	0.3637 ppm
Concentration per Run 1	7.1998 ppm	2.2997 ppm	0.3298 ppm	3.8182 ppm	0.1225 ppm	4.9377 ppm	0.3604 ppm
Concentration per Run 2	7.2258 ppm	2.3096 ppm	0.3393 ppm	3.8242 ppm	0.1221 ppm	4.9710 ppm	0.3629 ppm
Concentration per Run 3	7.2591 ppm	2.3075 ppm	0.3459 ppm	3.8358 ppm	0.1246 ppm	4.9731 ppm	0.3677 ppm
Concentration RSD	0.4 %	0.2 %	2.4 %	0.2 %	1.1 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0608 ppm	6.8494 ppm	6.3439 ppm	0.8106 ppm	0.7042 ppm	0.0037 ppm	0.8959 ppm
Concentration per Run 1	0.0586 ppm	6.8776 ppm	6.3481 ppm	0.8085 ppm	0.7092 ppm	0.0016 ppm	0.8883 ppm
Concentration per Run 2	0.0610 ppm	6.9087 ppm	6.3034 ppm	0.8121 ppm	0.7088 ppm	0.0039 ppm	0.8961 ppm
Concentration per Run 3	0.0629 ppm	6.7618 ppm	6.3802 ppm	0.8112 ppm	0.6946 ppm	0.0057 ppm	0.9031 ppm
Concentration RSD	3.5 %	1.1 %	0.6 %	0.2 %	1.2 %	55.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	16.5570 ppm	100.1603 %	105.2981 %	89.9764 %	102.8426 %	110.0006 %	102.9366 %
Concentration per Run 1	16.4848 ppm	100.5621 %	105.3262 %	90.4067 %	102.4593 %	109.8688 %	102.8694 %
Concentration per Run 2	16.5285 ppm	100.1253 %	104.7724 %	89.8777 %	103.1279 %	109.5143 %	103.0165 %
Concentration per Run 3	16.6576 ppm	99.7933 %	105.7956 %	89.6450 %	102.9408 %	110.6188 %	102.9239 %
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-03d2 WG1935632
Analysis started at: 6/18/2024 7:56:15 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	61.8043 ppm	0.0523 ppm	0.0070 ppm	0.3948 ppm	0.0019 ppm	12.1671 ppm
Concentration per Run 1	0.0000 ppm	61.7142 ppm	0.0534 ppm	0.0067 ppm	0.3917 ppm	0.0020 ppm	12.1762 ppm
Concentration per Run 2	0.0003 ppm	61.8941 ppm	0.0516 ppm	0.0076 ppm	0.3973 ppm	0.0019 ppm	12.1478 ppm
Concentration per Run 3	0.0000 ppm	61.8045 ppm	0.0517 ppm	0.0068 ppm	0.3955 ppm	0.0019 ppm	12.1771 ppm
Concentration RSD	221.7 %	0.1 %	2.0 %	6.7 %	0.7 %	2.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0446 ppm	0.0938 ppm	0.2191 ppm	113.9993 ppm	2.6951 ppm	0.0453 ppm
Concentration per Run 1	0.0027 ppm	0.0443 ppm	0.0943 ppm	0.2187 ppm	113.6346 ppm	2.7236 ppm	0.0466 ppm
Concentration per Run 2	0.0028 ppm	0.0447 ppm	0.0937 ppm	0.2192 ppm	114.1893 ppm	2.6818 ppm	0.0430 ppm
Concentration per Run 3	0.0027 ppm	0.0448 ppm	0.0933 ppm	0.2193 ppm	114.1741 ppm	2.6800 ppm	0.0462 ppm
Concentration RSD	3.0 %	0.6 %	0.5 %	0.2 %	0.3 %	0.9 %	4.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1821 ppm	1.3363 ppm	0.0060 ppm	0.1568 ppm	0.0513 ppm	0.7055 ppm	0.0087 ppm
Concentration per Run 1	6.2021 ppm	1.3327 ppm	0.0058 ppm	0.1613 ppm	0.0525 ppm	0.7102 ppm	0.0055 ppm
Concentration per Run 2	6.1706 ppm	1.3380 ppm	0.0058 ppm	0.1550 ppm	0.0499 ppm	0.7062 ppm	0.0093 ppm
Concentration per Run 3	6.1735 ppm	1.3381 ppm	0.0063 ppm	0.1542 ppm	0.0516 ppm	0.7000 ppm	0.0112 ppm
Concentration RSD	0.3 %	0.2 %	4.9 %	2.5 %	2.5 %	0.7 %	33.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0053 ppm	3.1025 ppm	0.0643 ppm	0.0789 ppm	0.3200 ppm	-0.0004 ppm	0.1416 ppm
Concentration per Run 1	0.0052 ppm	3.1176 ppm	0.0651 ppm	0.0789 ppm	0.3280 ppm	-0.0013 ppm	0.1422 ppm
Concentration per Run 2	0.0048 ppm	3.0944 ppm	0.0641 ppm	0.0794 ppm	0.3196 ppm	-0.0005 ppm	0.1413 ppm
Concentration per Run 3	0.0058 ppm	3.0956 ppm	0.0637 ppm	0.0785 ppm	0.3126 ppm	0.0005 ppm	0.1413 ppm
Concentration RSD	9.7 %	0.4 %	1.2 %	0.6 %	2.4 %	217.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6285 ppm	99.5429 %	106.0414 %	97.0231 %	102.3560 %	108.6184 %	103.2495 %
Concentration per Run 1	0.6318 ppm	99.0848 %	105.2744 %	96.5287 %	102.3374 %	107.9820 %	103.3244 %
Concentration per Run 2	0.6281 ppm	99.6858 %	106.3975 %	97.3353 %	102.3492 %	108.8067 %	103.1957 %
Concentration per Run 3	0.6256 ppm	99.8580 %	106.4524 %	97.2053 %	102.3813 %	109.0666 %	103.2285 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.4 %	0.0 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-04d2 WG1935632
Analysis started at: 6/18/2024 8:00:15 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	72.5358 ppm	0.0575 ppm	0.0085 ppm	1.3591 ppm	0.0022 ppm	18.9786 ppm
Concentration per Run 1	0.0012 ppm	72.4605 ppm	0.0578 ppm	0.0093 ppm	1.3495 ppm	0.0022 ppm	18.9520 ppm
Concentration per Run 2	0.0009 ppm	72.5513 ppm	0.0575 ppm	0.0081 ppm	1.3616 ppm	0.0022 ppm	18.9952 ppm
Concentration per Run 3	0.0008 ppm	72.5955 ppm	0.0572 ppm	0.0081 ppm	1.3664 ppm	0.0022 ppm	18.9887 ppm
Concentration RSD	19.9 %	0.1 %	0.6 %	8.2 %	0.6 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0056 ppm	0.0325 ppm	0.1168 ppm	1.7452 ppm	120.3251 ppm	3.7862 ppm	0.0706 ppm
Concentration per Run 1	0.0054 ppm	0.0317 ppm	0.1171 ppm	1.7473 ppm	119.5401 ppm	3.7723 ppm	0.0734 ppm
Concentration per Run 2	0.0056 ppm	0.0329 ppm	0.1166 ppm	1.7425 ppm	120.7396 ppm	3.7777 ppm	0.0694 ppm
Concentration per Run 3	0.0057 ppm	0.0329 ppm	0.1166 ppm	1.7459 ppm	120.6958 ppm	3.8085 ppm	0.0689 ppm
Concentration RSD	2.9 %	2.0 %	0.2 %	0.1 %	0.6 %	0.5 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.3109 ppm	1.0386 ppm	0.0088 ppm	0.3280 ppm	0.0744 ppm	3.9060 ppm	0.0111 ppm
Concentration per Run 1	5.3171 ppm	1.0360 ppm	0.0080 ppm	0.3259 ppm	0.0741 ppm	3.9135 ppm	0.0093 ppm
Concentration per Run 2	5.3092 ppm	1.0395 ppm	0.0092 ppm	0.3317 ppm	0.0755 ppm	3.9049 ppm	0.0115 ppm
Concentration per Run 3	5.3064 ppm	1.0402 ppm	0.0092 ppm	0.3266 ppm	0.0738 ppm	3.8995 ppm	0.0126 ppm
Concentration RSD	0.1 %	0.2 %	7.8 %	1.0 %	1.2 %	0.2 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0070 ppm	3.4513 ppm	0.1120 ppm	0.2010 ppm	0.4054 ppm	0.0006 ppm	0.1868 ppm
Concentration per Run 1	0.0069 ppm	3.4864 ppm	0.1106 ppm	0.2005 ppm	0.4003 ppm	0.0011 ppm	0.1875 ppm
Concentration per Run 2	0.0052 ppm	3.4546 ppm	0.1121 ppm	0.2015 ppm	0.4102 ppm	0.0011 ppm	0.1867 ppm
Concentration per Run 3	0.0090 ppm	3.4129 ppm	0.1132 ppm	0.2009 ppm	0.4056 ppm	-0.0004 ppm	0.1863 ppm
Concentration RSD	27.4 %	1.1 %	1.2 %	0.3 %	1.2 %	143.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3271 ppm	100.4649 %	106.8772 %	97.4096 %	103.5125 %	110.2972 %	104.5199 %
Concentration per Run 1	1.3305 ppm	99.9037 %	107.8755 %	97.0236 %	103.1161 %	111.3565 %	104.2330 %
Concentration per Run 2	1.3262 ppm	101.0271 %	106.4555 %	97.6494 %	103.9099 %	110.0723 %	104.6276 %
Concentration per Run 3	1.3246 ppm	100.4639 %	106.3006 %	97.5558 %	103.5116 %	109.4627 %	104.6990 %
Concentration RSD	0.2 %	0.6 %	0.8 %	0.3 %	0.4 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-01d2 WG1935632
Analysis started at: 6/18/2024 8:04:16 PM
Rack 3
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	19.3076 ppm	0.0441 ppm	0.0092 ppm	0.4214 ppm	0.0025 ppm	26.4873 ppm
Concentration per Run 1	0.0013 ppm	19.2951 ppm	0.0432 ppm	0.0087 ppm	0.4203 ppm	0.0025 ppm	26.4605 ppm
Concentration per Run 2	0.0007 ppm	19.2940 ppm	0.0435 ppm	0.0112 ppm	0.4222 ppm	0.0025 ppm	26.5128 ppm
Concentration per Run 3	0.0009 ppm	19.3337 ppm	0.0456 ppm	0.0077 ppm	0.4218 ppm	0.0025 ppm	26.4886 ppm
Concentration RSD	33.3 %	0.1 %	3.0 %	19.6 %	0.2 %	1.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0082 ppm	0.0225 ppm	0.0424 ppm	0.1820 ppm	71.9175 ppm	2.9432 ppm	0.0127 ppm
Concentration per Run 1	0.0081 ppm	0.0223 ppm	0.0427 ppm	0.1830 ppm	71.8172 ppm	3.0133 ppm	0.0139 ppm
Concentration per Run 2	0.0083 ppm	0.0231 ppm	0.0422 ppm	0.1814 ppm	71.8843 ppm	2.9257 ppm	0.0119 ppm
Concentration per Run 3	0.0083 ppm	0.0220 ppm	0.0422 ppm	0.1815 ppm	72.0511 ppm	2.8907 ppm	0.0123 ppm
Concentration RSD	1.1 %	2.6 %	0.7 %	0.5 %	0.2 %	2.1 %	8.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1738 ppm	1.8253 ppm	0.0093 ppm	0.3370 ppm	0.0426 ppm	0.7410 ppm	0.0065 ppm
Concentration per Run 1	2.1768 ppm	1.8255 ppm	0.0093 ppm	0.3341 ppm	0.0431 ppm	0.7421 ppm	0.0060 ppm
Concentration per Run 2	2.1674 ppm	1.8245 ppm	0.0094 ppm	0.3331 ppm	0.0421 ppm	0.7413 ppm	0.0056 ppm
Concentration per Run 3	2.1772 ppm	1.8259 ppm	0.0093 ppm	0.3438 ppm	0.0424 ppm	0.7394 ppm	0.0078 ppm
Concentration RSD	0.3 %	0.0 %	0.5 %	1.7 %	1.2 %	0.2 %	18.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0268 ppm	4.0483 ppm	0.1673 ppm	0.5700 ppm	0.3384 ppm	-0.0007 ppm	0.0901 ppm
Concentration per Run 1	0.0270 ppm	4.0780 ppm	0.1671 ppm	0.5694 ppm	0.3389 ppm	-0.0010 ppm	0.0905 ppm
Concentration per Run 2	0.0260 ppm	4.0222 ppm	0.1656 ppm	0.5700 ppm	0.3346 ppm	-0.0018 ppm	0.0898 ppm
Concentration per Run 3	0.0274 ppm	4.0447 ppm	0.1694 ppm	0.5707 ppm	0.3415 ppm	0.0007 ppm	0.0899 ppm
Concentration RSD	2.7 %	0.7 %	1.1 %	0.1 %	1.0 %	175.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5687 ppm	98.5983 %	105.2128 %	96.7476 %	100.5350 %	106.6990 %	101.2780 %
Concentration per Run 1	0.5707 ppm	98.2779 %	105.2925 %	96.8359 %	100.5767 %	106.9390 %	101.5811 %
Concentration per Run 2	0.5670 ppm	98.9938 %	105.3767 %	96.3365 %	101.0247 %	106.5663 %	100.8581 %
Concentration per Run 3	0.5684 ppm	98.5233 %	104.9691 %	97.0705 %	100.0035 %	106.5918 %	101.3948 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.4 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-3d2 WG1935632
Analysis started at: 6/18/2024 8:08:16 PM
Rack 3
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0505 ppm	21.6580 ppm	0.1447 ppm	0.8933 ppm	2.3436 ppm	0.0496 ppm	31.3309 ppm
Concentration per Run 1	0.0504 ppm	21.5920 ppm	0.1428 ppm	0.8925 ppm	2.3387 ppm	0.0498 ppm	31.3101 ppm
Concentration per Run 2	0.0504 ppm	21.7326 ppm	0.1473 ppm	0.8968 ppm	2.3509 ppm	0.0496 ppm	31.4029 ppm
Concentration per Run 3	0.0506 ppm	21.6495 ppm	0.1440 ppm	0.8907 ppm	2.3412 ppm	0.0495 ppm	31.2796 ppm
Concentration RSD	0.2 %	0.3 %	1.6 %	0.4 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0573 ppm	0.5084 ppm	0.2306 ppm	0.3938 ppm	42.9699 ppm	12.2413 ppm	0.0167 ppm
Concentration per Run 1	0.0575 ppm	0.5100 ppm	0.2304 ppm	0.3947 ppm	42.9171 ppm	12.2512 ppm	0.0174 ppm
Concentration per Run 2	0.0573 ppm	0.5078 ppm	0.2311 ppm	0.3950 ppm	43.0469 ppm	12.2726 ppm	0.0136 ppm
Concentration per Run 3	0.0572 ppm	0.5074 ppm	0.2301 ppm	0.3916 ppm	42.9457 ppm	12.2001 ppm	0.0189 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.5 %	0.2 %	0.3 %	16.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.8015 ppm	2.1312 ppm	0.9460 ppm	10.6906 ppm	0.5190 ppm	1.1778 ppm	0.4833 ppm
Concentration per Run 1	10.8279 ppm	2.1262 ppm	0.9347 ppm	10.7113 ppm	0.5202 ppm	1.1780 ppm	0.4821 ppm
Concentration per Run 2	10.7999 ppm	2.1406 ppm	0.9484 ppm	10.6849 ppm	0.5208 ppm	1.1792 ppm	0.4837 ppm
Concentration per Run 3	10.7768 ppm	2.1268 ppm	0.9549 ppm	10.6756 ppm	0.5160 ppm	1.1763 ppm	0.4841 ppm
Concentration RSD	0.2 %	0.4 %	1.1 %	0.2 %	0.5 %	0.1 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1376 ppm	5.0853 ppm	0.9276 ppm	1.4034 ppm	1.0427 ppm	0.1103 ppm	0.5825 ppm
Concentration per Run 1	0.1378 ppm	5.0820 ppm	0.9282 ppm	1.4031 ppm	1.0370 ppm	0.1072 ppm	0.5828 ppm
Concentration per Run 2	0.1362 ppm	5.1023 ppm	0.9247 ppm	1.4031 ppm	1.0422 ppm	0.1120 ppm	0.5817 ppm
Concentration per Run 3	0.1388 ppm	5.0716 ppm	0.9300 ppm	1.4041 ppm	1.0490 ppm	0.1116 ppm	0.5829 ppm
Concentration RSD	1.0 %	0.3 %	0.3 %	0.0 %	0.6 %	2.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0443 ppm	98.4423 %	105.1830 %	95.5248 %	99.8542 %	106.4098 %	100.0952 %
Concentration per Run 1	1.0480 ppm	98.0982 %	105.0978 %	95.0998 %	99.7353 %	106.3125 %	99.5507 %
Concentration per Run 2	1.0429 ppm	98.5694 %	104.8108 %	95.8415 %	99.9445 %	106.1503 %	100.4524 %
Concentration per Run 3	1.0420 ppm	98.6594 %	105.6403 %	95.6330 %	99.8829 %	106.7667 %	100.2825 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.4 %	0.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-4d2 WG1935632
Analysis started at: 6/18/2024 8:12:17 PM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	19.7988 ppm	0.0329 ppm	0.0085 ppm	0.4144 ppm	0.0024 ppm	22.1170 ppm
Concentration per Run 1	0.0009 ppm	19.7100 ppm	0.0318 ppm	0.0077 ppm	0.4141 ppm	0.0023 ppm	22.1023 ppm
Concentration per Run 2	0.0009 ppm	19.8365 ppm	0.0337 ppm	0.0086 ppm	0.4141 ppm	0.0024 ppm	22.1314 ppm
Concentration per Run 3	0.0011 ppm	19.8499 ppm	0.0334 ppm	0.0093 ppm	0.4151 ppm	0.0024 ppm	22.1174 ppm
Concentration RSD	12.2 %	0.4 %	3.1 %	9.5 %	0.1 %	1.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0075 ppm	0.0201 ppm	0.0345 ppm	0.1643 ppm	47.4677 ppm	2.9238 ppm	0.0153 ppm
Concentration per Run 1	0.0076 ppm	0.0208 ppm	0.0345 ppm	0.1649 ppm	47.5730 ppm	2.9457 ppm	0.0180 ppm
Concentration per Run 2	0.0075 ppm	0.0196 ppm	0.0347 ppm	0.1646 ppm	47.3577 ppm	2.9128 ppm	0.0158 ppm
Concentration per Run 3	0.0074 ppm	0.0199 ppm	0.0344 ppm	0.1634 ppm	47.4723 ppm	2.9129 ppm	0.0121 ppm
Concentration RSD	1.3 %	3.1 %	0.4 %	0.5 %	0.2 %	0.6 %	19.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5479 ppm	1.5238 ppm	0.0097 ppm	0.3095 ppm	0.0361 ppm	0.7196 ppm	0.0056 ppm
Concentration per Run 1	1.5611 ppm	1.5237 ppm	0.0100 ppm	0.3092 ppm	0.0369 ppm	0.7187 ppm	0.0075 ppm
Concentration per Run 2	1.5408 ppm	1.5268 ppm	0.0092 ppm	0.3122 ppm	0.0359 ppm	0.7177 ppm	0.0030 ppm
Concentration per Run 3	1.5418 ppm	1.5209 ppm	0.0099 ppm	0.3071 ppm	0.0353 ppm	0.7223 ppm	0.0062 ppm
Concentration RSD	0.7 %	0.2 %	4.6 %	0.8 %	2.3 %	0.3 %	42.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0270 ppm	3.7898 ppm	0.0748 ppm	0.4750 ppm	0.3139 ppm	-0.0003 ppm	0.0897 ppm
Concentration per Run 1	0.0268 ppm	3.8165 ppm	0.0741 ppm	0.4767 ppm	0.3132 ppm	0.0005 ppm	0.0903 ppm
Concentration per Run 2	0.0292 ppm	3.7800 ppm	0.0757 ppm	0.4744 ppm	0.3191 ppm	-0.0005 ppm	0.0900 ppm
Concentration per Run 3	0.0251 ppm	3.7728 ppm	0.0746 ppm	0.4739 ppm	0.3094 ppm	-0.0009 ppm	0.0887 ppm
Concentration RSD	7.6 %	0.6 %	1.1 %	0.3 %	1.5 %	246.6 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5074 ppm	97.8415 %	105.4479 %	97.7621 %	100.4312 %	107.6552 %	102.0212 %
Concentration per Run 1	0.5084 ppm	97.0365 %	105.8775 %	97.5396 %	100.1257 %	108.1085 %	101.8209 %
Concentration per Run 2	0.5084 ppm	98.0625 %	104.7976 %	98.2154 %	100.5777 %	106.9889 %	102.3276 %
Concentration per Run 3	0.5052 ppm	98.4256 %	105.6684 %	97.5315 %	100.5901 %	107.8681 %	101.9150 %
Concentration RSD	0.4 %	0.7 %	0.5 %	0.4 %	0.3 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-5d2 WG1935632
Analysis started at: 6/18/2024 8:16:17 PM
Rack 3
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	21.3127 ppm	0.1608 ppm	0.9677 ppm	2.3712 ppm	0.0486 ppm	35.3904 ppm
Concentration per Run 1	0.0498 ppm	21.4623 ppm	0.1622 ppm	0.9744 ppm	2.3690 ppm	0.0486 ppm	35.5079 ppm
Concentration per Run 2	0.0494 ppm	21.1889 ppm	0.1613 ppm	0.9640 ppm	2.3836 ppm	0.0486 ppm	35.3039 ppm
Concentration per Run 3	0.0494 ppm	21.2869 ppm	0.1590 ppm	0.9647 ppm	2.3609 ppm	0.0485 ppm	35.3594 ppm
Concentration RSD	0.5 %	0.6 %	1.0 %	0.6 %	0.5 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0591 ppm	0.4939 ppm	0.2325 ppm	0.4245 ppm	71.3887 ppm	13.4969 ppm	0.0125 ppm
Concentration per Run 1	0.0591 ppm	0.4958 ppm	0.2340 ppm	0.4251 ppm	71.4028 ppm	13.5132 ppm	0.0133 ppm
Concentration per Run 2	0.0592 ppm	0.4931 ppm	0.2314 ppm	0.4247 ppm	71.4873 ppm	13.5009 ppm	0.0113 ppm
Concentration per Run 3	0.0591 ppm	0.4928 ppm	0.2320 ppm	0.4237 ppm	71.2760 ppm	13.4766 ppm	0.0129 ppm
Concentration RSD	0.1 %	0.3 %	0.6 %	0.2 %	0.1 %	0.1 %	8.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.7075 ppm	2.2272 ppm	0.9684 ppm	11.2111 ppm	0.5220 ppm	1.2643 ppm	0.4897 ppm
Concentration per Run 1	11.7567 ppm	2.2317 ppm	0.9566 ppm	11.2287 ppm	0.5244 ppm	1.2672 ppm	0.4937 ppm
Concentration per Run 2	11.6513 ppm	2.2233 ppm	0.9686 ppm	11.2060 ppm	0.5210 ppm	1.2603 ppm	0.4875 ppm
Concentration per Run 3	11.7146 ppm	2.2265 ppm	0.9800 ppm	11.1987 ppm	0.5207 ppm	1.2655 ppm	0.4879 ppm
Concentration RSD	0.5 %	0.2 %	1.2 %	0.1 %	0.4 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1457 ppm	5.4696 ppm	1.0867 ppm	1.5373 ppm	1.3446 ppm	0.1161 ppm	0.5761 ppm
Concentration per Run 1	0.1459 ppm	5.5376 ppm	1.0893 ppm	1.5378 ppm	1.3609 ppm	0.1142 ppm	0.5792 ppm
Concentration per Run 2	0.1448 ppm	5.5063 ppm	1.0797 ppm	1.5380 ppm	1.3348 ppm	0.1178 ppm	0.5730 ppm
Concentration per Run 3	0.1464 ppm	5.3650 ppm	1.0912 ppm	1.5360 ppm	1.3382 ppm	0.1163 ppm	0.5760 ppm
Concentration RSD	0.6 %	1.7 %	0.6 %	0.1 %	1.1 %	1.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0430 ppm	98.4769 %	105.8042 %	95.5037 %	99.6364 %	107.1732 %	100.4433 %
Concentration per Run 1	1.0485 ppm	97.5423 %	105.2245 %	95.5764 %	98.8950 %	106.6302 %	100.9010 %
Concentration per Run 2	1.0379 ppm	99.5242 %	106.1245 %	96.1380 %	100.6587 %	107.5756 %	101.0287 %
Concentration per Run 3	1.0425 ppm	98.3642 %	106.0636 %	94.7966 %	99.3555 %	107.3139 %	99.4003 %
Concentration RSD	0.5 %	1.0 %	0.5 %	0.7 %	0.9 %	0.5 %	0.9 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: WG1935632-6d10 WG1935632
Analysis started at: 6/18/2024 8:20:17 PM
Rack 3
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	4.0116 ppm	0.0068 ppm	0.0030 ppm	0.0853 ppm	0.0005 ppm	5.4022 ppm
Concentration per Run 1	-0.0002 ppm	4.0279 ppm	0.0072 ppm	0.0035 ppm	0.0850 ppm	0.0005 ppm	5.4139 ppm
Concentration per Run 2	0.0002 ppm	3.9850 ppm	0.0067 ppm	0.0027 ppm	0.0849 ppm	0.0005 ppm	5.3973 ppm
Concentration per Run 3	0.0000 ppm	4.0220 ppm	0.0064 ppm	0.0028 ppm	0.0860 ppm	0.0006 ppm	5.3953 ppm
Concentration RSD	1,859.6 %	0.6 %	6.2 %	14.0 %	0.7 %	9.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0044 ppm	0.0089 ppm	0.0370 ppm	14.8717 ppm	0.5971 ppm	-0.0006 ppm
Concentration per Run 1	0.0018 ppm	0.0044 ppm	0.0090 ppm	0.0375 ppm	14.8815 ppm	0.6133 ppm	-0.0020 ppm
Concentration per Run 2	0.0017 ppm	0.0046 ppm	0.0088 ppm	0.0368 ppm	14.8531 ppm	0.5843 ppm	-0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0043 ppm	0.0088 ppm	0.0367 ppm	14.8806 ppm	0.5938 ppm	0.0003 ppm
Concentration RSD	4.3 %	3.3 %	1.5 %	1.2 %	0.1 %	2.5 %	192.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4615 ppm	0.3742 ppm	0.0024 ppm	0.0892 ppm	0.0095 ppm	0.1508 ppm	0.0003 ppm
Concentration per Run 1	0.4667 ppm	0.3753 ppm	0.0020 ppm	0.0940 ppm	0.0098 ppm	0.1512 ppm	-0.0025 ppm
Concentration per Run 2	0.4605 ppm	0.3735 ppm	0.0026 ppm	0.0882 ppm	0.0093 ppm	0.1505 ppm	0.0007 ppm
Concentration per Run 3	0.4575 ppm	0.3738 ppm	0.0026 ppm	0.0854 ppm	0.0094 ppm	0.1508 ppm	0.0026 ppm
Concentration RSD	1.0 %	0.3 %	14.9 %	4.9 %	3.0 %	0.2 %	934.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0068 ppm	1.0090 ppm	0.0366 ppm	0.1160 ppm	0.0793 ppm	-0.0005 ppm	0.0184 ppm
Concentration per Run 1	0.0056 ppm	1.0184 ppm	0.0367 ppm	0.1156 ppm	0.0793 ppm	0.0003 ppm	0.0188 ppm
Concentration per Run 2	0.0060 ppm	1.0015 ppm	0.0360 ppm	0.1163 ppm	0.0823 ppm	-0.0012 ppm	0.0184 ppm
Concentration per Run 3	0.0088 ppm	1.0069 ppm	0.0371 ppm	0.1160 ppm	0.0761 ppm	-0.0006 ppm	0.0179 ppm
Concentration RSD	26.0 %	0.9 %	1.6 %	0.3 %	3.9 %	162.3 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1208 ppm	94.6245 %	101.9024 %	97.0054 %	97.2385 %	102.4360 %	99.0248 %
Concentration per Run 1	0.1220 ppm	93.3720 %	101.1856 %	96.6797 %	96.5516 %	102.1265 %	99.0431 %
Concentration per Run 2	0.1210 ppm	94.5627 %	102.3104 %	97.2043 %	97.1583 %	102.6124 %	99.4057 %
Concentration per Run 3	0.1193 ppm	95.9389 %	102.2113 %	97.1322 %	98.0057 %	102.5690 %	98.6256 %
Concentration RSD	1.1 %	1.4 %	0.6 %	0.3 %	0.8 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 8:24:18 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5203 ppm	0.4919 ppm	0.4894 ppm	0.5070 ppm	0.5267 ppm	0.4915 ppm	0.4811 ppm
Concentration per Run 1	0.5203 ppm	0.4960 ppm	0.4883 ppm	0.5060 ppm	0.5344 ppm	0.4961 ppm	0.4887 ppm
Concentration per Run 2	0.5210 ppm	0.4826 ppm	0.4890 ppm	0.5101 ppm	0.5137 ppm	0.4845 ppm	0.4715 ppm
Concentration per Run 3	0.5195 ppm	0.4972 ppm	0.4910 ppm	0.5049 ppm	0.5321 ppm	0.4941 ppm	0.4832 ppm
Recovery Percentage 1	104.055 %	98.388 %	97.889 %	101.394 %	105.346 %	98.310 %	96.222 %
Concentration RSD	0.1 %	1.7 %	0.3 %	0.5 %	2.1 %	1.3 %	1.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5224 ppm	0.5252 ppm	0.5186 ppm	0.5079 ppm	0.4744 ppm	5.5081 ppm	0.5114 ppm
Concentration per Run 1	0.5235 ppm	0.5263 ppm	0.5188 ppm	0.5100 ppm	0.4814 ppm	5.6222 ppm	0.5233 ppm
Concentration per Run 2	0.5237 ppm	0.5270 ppm	0.5197 ppm	0.5093 ppm	0.4657 ppm	5.3960 ppm	0.4966 ppm
Concentration per Run 3	0.5199 ppm	0.5223 ppm	0.5173 ppm	0.5043 ppm	0.4761 ppm	5.5062 ppm	0.5144 ppm
Recovery Percentage 1	104.473 %	105.045 %	103.726 %	101.572 %	94.877 %	110.163 %	102.284 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.6 %	1.7 %	2.1 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5095 ppm	0.4665 ppm	0.5104 ppm	11.2023 ppm	0.5328 ppm	0.5099 ppm	0.5052 ppm
Concentration per Run 1	0.5098 ppm	0.4724 ppm	0.5037 ppm	11.3092 ppm	0.5326 ppm	0.5068 ppm	0.5042 ppm
Concentration per Run 2	0.5105 ppm	0.4571 ppm	0.5124 ppm	11.0231 ppm	0.5360 ppm	0.5107 ppm	0.5101 ppm
Concentration per Run 3	0.5082 ppm	0.4699 ppm	0.5151 ppm	11.2747 ppm	0.5299 ppm	0.5121 ppm	0.5013 ppm
Recovery Percentage 1	101.897 %	93.298 %	102.074 %	112.023 %	106.568 %	101.972 %	101.040 %
Concentration RSD	0.2 %	1.8 %	1.2 %	1.4 %	0.6 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5082 ppm	5.4296 ppm	0.5225 ppm	0.5264 ppm	0.5210 ppm	0.5056 ppm	0.5182 ppm
Concentration per Run 1	0.5091 ppm	5.4332 ppm	0.5231 ppm	0.5318 ppm	0.5224 ppm	0.5024 ppm	0.5201 ppm
Concentration per Run 2	0.5031 ppm	5.4342 ppm	0.5250 ppm	0.5181 ppm	0.5195 ppm	0.5042 ppm	0.5190 ppm
Concentration per Run 3	0.5125 ppm	5.4213 ppm	0.5195 ppm	0.5293 ppm	0.5211 ppm	0.5103 ppm	0.5154 ppm
Recovery Percentage 1	101.647 %	103.420 %	104.504 %	105.275 %	104.202 %	101.128 %	103.637 %
Concentration RSD	0.9 %	0.1 %	0.5 %	1.4 %	0.3 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5302 ppm	96.7413 %	103.0266 %	96.9771 %	95.0697 %	101.0173 %	96.2256 %
Concentration per Run 1	0.5308 ppm	96.3699 %	101.9062 %	97.3041 %	94.9273 %	100.0810 %	96.4866 %
Concentration per Run 2	0.5319 ppm	96.5575 %	104.2606 %	96.4779 %	94.8714 %	102.3431 %	95.6694 %
Concentration per Run 3	0.5278 ppm	97.2966 %	102.9130 %	97.1493 %	95.4105 %	100.6279 %	96.5207 %
Recovery Percentage 1	106.031 %						
Concentration RSD	0.4 %	0.5 %	1.1 %	0.5 %	0.3 %	1.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 8:28:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0252 ppm	-0.0011 ppm	0.0014 ppm	-0.0003 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	-0.0004 ppm	-0.0255 ppm	-0.0019 ppm	0.0011 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0305 ppm	-0.0021 ppm	0.0026 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	-0.0195 ppm	0.0008 ppm	0.0006 ppm	-0.0004 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	-2.723 %	-25.170 %	-35.146 %	4.686 %	-2.766 %	1.846 %	-0.573 %
Concentration RSD	128.1 %	21.8 %	153.4 %	75.0 %	39.4 %	76.3 %	161.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0038 ppm	-0.0341 ppm	-0.0045 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0037 ppm	-0.0346 ppm	-0.0038 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0055 ppm	-0.0242 ppm	-0.0034 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0023 ppm	-0.0435 ppm	-0.0062 ppm
Recovery Percentage 1	1.647 %	-1.103 %	-0.267 %	3.071 %	7.693 %	-1.363 %	-44.747 %
Concentration RSD	17.1 %	188.4 %	331.5 %	79.5 %	41.6 %	28.4 %	34.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0022 ppm	0.0004 ppm	-0.0008 ppm	0.0190 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0033 ppm	0.0004 ppm	-0.0008 ppm	0.0160 ppm	0.0000 ppm	0.0009 ppm	-0.0005 ppm
Concentration per Run 2	-0.0015 ppm	0.0007 ppm	-0.0008 ppm	0.0215 ppm	-0.0002 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 3	-0.0019 ppm	0.0000 ppm	-0.0008 ppm	0.0194 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	-2.244 %	3.653 %	-1.659 %	0.948 %	-0.174 %	1.870 %	-0.254 %
Concentration RSD	41.7 %	85.7 %	3.3 %	14.7 %	283.8 %	366.8 %	726.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.0077 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0086 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 2	0.0026 ppm	0.0081 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0028 ppm	-0.0004 ppm
Concentration per Run 3	0.0038 ppm	0.0065 ppm	0.0009 ppm	0.0003 ppm	-0.0003 ppm	-0.0013 ppm	-0.0003 ppm
Recovery Percentage 1	22.215 %	1.546 %	0.393 %	2.139 %	-1.199 %	-5.160 %	-2.358 %
Concentration RSD	81.9 %	14.6 %	324.9 %	45.2 %	185.7 %	185.0 %	89.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	90.9310 %	98.2995 %	94.1464 %	96.4289 %	100.8038 %	98.1412 %
Concentration per Run 1	0.0012 ppm	89.4472 %	98.2991 %	93.5187 %	95.7011 %	100.9274 %	97.6879 %
Concentration per Run 2	0.0010 ppm	91.4785 %	98.8201 %	94.1025 %	96.9527 %	101.3517 %	98.3851 %
Concentration per Run 3	0.0009 ppm	91.8674 %	97.7794 %	94.8179 %	96.6329 %	100.1324 %	98.3506 %
Recovery Percentage 1	21.032 %						
Concentration RSD	17.3 %	1.4 %	0.5 %	0.7 %	0.7 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-05d2 WG1935632
Analysis started at: 6/18/2024 8:37:57 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	21.2310 ppm	0.0225 ppm	0.0088 ppm	0.6661 ppm	0.0017 ppm	37.9340 ppm
Concentration per Run 1	0.0004 ppm	21.1896 ppm	0.0231 ppm	0.0090 ppm	0.6704 ppm	0.0016 ppm	37.8642 ppm
Concentration per Run 2	0.0010 ppm	21.2285 ppm	0.0204 ppm	0.0078 ppm	0.6642 ppm	0.0017 ppm	37.9082 ppm
Concentration per Run 3	0.0002 ppm	21.2749 ppm	0.0241 ppm	0.0096 ppm	0.6637 ppm	0.0016 ppm	38.0294 ppm
Concentration RSD	68.9 %	0.2 %	8.4 %	10.7 %	0.6 %	4.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0044 ppm	0.0279 ppm	0.0507 ppm	0.1276 ppm	17.1814 ppm	4.1626 ppm	0.0673 ppm
Concentration per Run 1	0.0044 ppm	0.0282 ppm	0.0510 ppm	0.1287 ppm	17.1625 ppm	4.1879 ppm	0.0690 ppm
Concentration per Run 2	0.0045 ppm	0.0272 ppm	0.0506 ppm	0.1274 ppm	17.1858 ppm	4.1737 ppm	0.0648 ppm
Concentration per Run 3	0.0044 ppm	0.0284 ppm	0.0506 ppm	0.1268 ppm	17.1958 ppm	4.1261 ppm	0.0682 ppm
Concentration RSD	1.6 %	2.2 %	0.4 %	0.7 %	0.1 %	0.8 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.6953 ppm	0.2873 ppm	0.0078 ppm	1.0924 ppm	0.0661 ppm	0.1397 ppm	0.0023 ppm
Concentration per Run 1	1.7091 ppm	0.2870 ppm	0.0081 ppm	1.0961 ppm	0.0668 ppm	0.1388 ppm	0.0014 ppm
Concentration per Run 2	1.6906 ppm	0.2871 ppm	0.0074 ppm	1.0849 ppm	0.0670 ppm	0.1399 ppm	0.0035 ppm
Concentration per Run 3	1.6862 ppm	0.2878 ppm	0.0079 ppm	1.0962 ppm	0.0644 ppm	0.1404 ppm	0.0020 ppm
Concentration RSD	0.7 %	0.2 %	5.0 %	0.6 %	2.2 %	0.6 %	47.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0065 ppm	3.3062 ppm	0.0171 ppm	0.2873 ppm	0.8782 ppm	0.0000 ppm	0.1113 ppm
Concentration per Run 1	0.0058 ppm	3.3420 ppm	0.0172 ppm	0.2867 ppm	0.8959 ppm	0.0000 ppm	0.1122 ppm
Concentration per Run 2	0.0065 ppm	3.3311 ppm	0.0172 ppm	0.2871 ppm	0.8725 ppm	-0.0002 ppm	0.1112 ppm
Concentration per Run 3	0.0071 ppm	3.2455 ppm	0.0168 ppm	0.2880 ppm	0.8662 ppm	0.0001 ppm	0.1106 ppm
Concentration RSD	10.2 %	1.6 %	1.5 %	0.2 %	1.8 %	622.0 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2088 ppm	98.1252 %	104.9849 %	98.1383 %	105.5096 %	111.7584 %	107.2890 %
Concentration per Run 1	0.2092 ppm	97.1555 %	104.7047 %	98.2798 %	105.1678 %	111.6504 %	107.4718 %
Concentration per Run 2	0.2090 ppm	98.4361 %	105.4274 %	98.1551 %	105.6712 %	111.9883 %	107.3353 %
Concentration per Run 3	0.2082 ppm	98.7840 %	104.8227 %	97.9800 %	105.6899 %	111.6365 %	107.0598 %
Concentration RSD	0.3 %	0.9 %	0.4 %	0.2 %	0.3 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-06d2 WG1935632
Analysis started at: 6/18/2024 8:42:05 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0043 ppm	41.4516 ppm	0.1075 ppm	0.0320 ppm	3.4030 ppm	0.0031 ppm	79.8665 ppm
Concentration per Run 1	0.0040 ppm	41.4771 ppm	0.1065 ppm	0.0313 ppm	3.4028 ppm	0.0032 ppm	79.7914 ppm
Concentration per Run 2	0.0045 ppm	41.3197 ppm	0.1079 ppm	0.0323 ppm	3.4022 ppm	0.0031 ppm	79.7293 ppm
Concentration per Run 3	0.0046 ppm	41.5578 ppm	0.1080 ppm	0.0323 ppm	3.4040 ppm	0.0031 ppm	80.0788 ppm
Concentration RSD	7.9 %	0.3 %	0.8 %	1.8 %	0.0 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0146 ppm	0.0802 ppm	0.1518 ppm	1.7780 ppm	177.1071 ppm	8.0078 ppm	0.1131 ppm
Concentration per Run 1	0.0146 ppm	0.0810 ppm	0.1513 ppm	1.7821 ppm	176.7094 ppm	8.0796 ppm	0.1142 ppm
Concentration per Run 2	0.0147 ppm	0.0800 ppm	0.1525 ppm	1.7770 ppm	177.2131 ppm	7.9233 ppm	0.1103 ppm
Concentration per Run 3	0.0144 ppm	0.0795 ppm	0.1517 ppm	1.7748 ppm	177.3986 ppm	8.0204 ppm	0.1149 ppm
Concentration RSD	1.0 %	1.0 %	0.4 %	0.2 %	0.2 %	1.0 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.6075 ppm	1.4135 ppm	0.0154 ppm	2.5965 ppm	0.3959 ppm	14.0444 ppm	0.0316 ppm
Concentration per Run 1	12.6381 ppm	1.4128 ppm	0.0151 ppm	2.5848 ppm	0.3959 ppm	14.1020 ppm	0.0309 ppm
Concentration per Run 2	12.5551 ppm	1.4148 ppm	0.0156 ppm	2.6019 ppm	0.3944 ppm	14.0313 ppm	0.0314 ppm
Concentration per Run 3	12.6292 ppm	1.4130 ppm	0.0155 ppm	2.6029 ppm	0.3973 ppm	13.9998 ppm	0.0325 ppm
Concentration RSD	0.4 %	0.1 %	1.7 %	0.4 %	0.4 %	0.4 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0078 ppm	3.2950 ppm	0.8905 ppm	0.8322 ppm	0.7439 ppm	0.0006 ppm	0.1885 ppm
Concentration per Run 1	0.0080 ppm	3.2994 ppm	0.8924 ppm	0.8289 ppm	0.7482 ppm	0.0005 ppm	0.1885 ppm
Concentration per Run 2	0.0067 ppm	3.2814 ppm	0.8876 ppm	0.8344 ppm	0.7327 ppm	-0.0001 ppm	0.1883 ppm
Concentration per Run 3	0.0086 ppm	3.3044 ppm	0.8914 ppm	0.8333 ppm	0.7509 ppm	0.0013 ppm	0.1888 ppm
Concentration RSD	12.5 %	0.4 %	0.3 %	0.4 %	1.3 %	128.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.9007 ppm	102.0214 %	108.5187 %	96.5721 %	110.2649 %	119.4279 %	111.1180 %
Concentration per Run 1	6.9240 ppm	101.3107 %	109.1335 %	96.3508 %	109.4748 %	120.0455 %	110.7881 %
Concentration per Run 2	6.8872 ppm	102.2684 %	108.2703 %	96.1906 %	110.4900 %	118.7727 %	110.6703 %
Concentration per Run 3	6.8911 ppm	102.4851 %	108.1523 %	97.1749 %	110.8298 %	119.4655 %	111.8955 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.5 %	0.6 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-07d2 WG1935632
Analysis started at: 6/18/2024 8:46:06 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	13.8099 ppm	0.0148 ppm	0.0058 ppm	0.2527 ppm	0.0013 ppm	12.6434 ppm
Concentration per Run 1	0.0007 ppm	13.8422 ppm	0.0148 ppm	0.0054 ppm	0.2547 ppm	0.0013 ppm	12.6744 ppm
Concentration per Run 2	0.0002 ppm	13.7427 ppm	0.0158 ppm	0.0063 ppm	0.2524 ppm	0.0013 ppm	12.5776 ppm
Concentration per Run 3	0.0002 ppm	13.8448 ppm	0.0138 ppm	0.0058 ppm	0.2511 ppm	0.0013 ppm	12.6783 ppm
Concentration RSD	84.6 %	0.4 %	6.8 %	7.5 %	0.7 %	2.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0309 ppm	0.0313 ppm	0.1862 ppm	16.9524 ppm	2.4472 ppm	0.0378 ppm
Concentration per Run 1	0.0015 ppm	0.0314 ppm	0.0311 ppm	0.1876 ppm	17.0354 ppm	2.4691 ppm	0.0403 ppm
Concentration per Run 2	0.0016 ppm	0.0309 ppm	0.0316 ppm	0.1862 ppm	16.8872 ppm	2.4259 ppm	0.0371 ppm
Concentration per Run 3	0.0016 ppm	0.0305 ppm	0.0311 ppm	0.1849 ppm	16.9346 ppm	2.4465 ppm	0.0359 ppm
Concentration RSD	2.8 %	1.4 %	0.9 %	0.7 %	0.4 %	0.9 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5854 ppm	0.2562 ppm	0.0076 ppm	0.3589 ppm	0.0777 ppm	0.2129 ppm	-0.0007 ppm
Concentration per Run 1	0.5863 ppm	0.2564 ppm	0.0070 ppm	0.3594 ppm	0.0777 ppm	0.2130 ppm	0.0011 ppm
Concentration per Run 2	0.5857 ppm	0.2560 ppm	0.0076 ppm	0.3596 ppm	0.0779 ppm	0.2123 ppm	-0.0024 ppm
Concentration per Run 3	0.5841 ppm	0.2561 ppm	0.0081 ppm	0.3577 ppm	0.0776 ppm	0.2134 ppm	-0.0007 ppm
Concentration RSD	0.2 %	0.1 %	7.0 %	0.3 %	0.2 %	0.3 %	250.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	2.7050 ppm	0.0163 ppm	0.1752 ppm	0.9125 ppm	-0.0021 ppm	0.0906 ppm
Concentration per Run 1	0.0060 ppm	2.7274 ppm	0.0163 ppm	0.1759 ppm	0.9131 ppm	-0.0012 ppm	0.0910 ppm
Concentration per Run 2	0.0022 ppm	2.7135 ppm	0.0164 ppm	0.1753 ppm	0.9197 ppm	-0.0023 ppm	0.0905 ppm
Concentration per Run 3	0.0001 ppm	2.6742 ppm	0.0161 ppm	0.1743 ppm	0.9047 ppm	-0.0026 ppm	0.0903 ppm
Concentration RSD	108.5 %	1.0 %	0.9 %	0.5 %	0.8 %	36.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2799 ppm	97.4114 %	105.1127 %	98.0289 %	104.0148 %	111.5582 %	105.9310 %
Concentration per Run 1	0.2821 ppm	96.2369 %	104.9796 %	97.5353 %	103.6463 %	111.6715 %	105.6780 %
Concentration per Run 2	0.2793 ppm	97.7446 %	105.4848 %	98.6174 %	104.0486 %	111.6144 %	106.5179 %
Concentration per Run 3	0.2783 ppm	98.2529 %	104.8738 %	97.9339 %	104.3497 %	111.3887 %	105.5970 %
Concentration RSD	0.7 %	1.1 %	0.3 %	0.6 %	0.3 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-08d2 WG1935632
Analysis started at: 6/18/2024 8:50:06 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0057 ppm	20.3670 ppm	0.0403 ppm	0.0067 ppm	0.4293 ppm	0.0013 ppm	11.7714 ppm
Concentration per Run 1	0.0059 ppm	20.4764 ppm	0.0412 ppm	0.0057 ppm	0.4283 ppm	0.0013 ppm	11.8214 ppm
Concentration per Run 2	0.0055 ppm	20.3796 ppm	0.0423 ppm	0.0072 ppm	0.4322 ppm	0.0013 ppm	11.7540 ppm
Concentration per Run 3	0.0059 ppm	20.2451 ppm	0.0374 ppm	0.0072 ppm	0.4273 ppm	0.0013 ppm	11.7389 ppm
Concentration RSD	3.9 %	0.6 %	6.4 %	13.0 %	0.6 %	3.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0289 ppm	0.0522 ppm	0.2407 ppm	31.3522 ppm	2.9301 ppm	0.0561 ppm
Concentration per Run 1	0.0016 ppm	0.0286 ppm	0.0519 ppm	0.2412 ppm	31.4574 ppm	2.9384 ppm	0.0562 ppm
Concentration per Run 2	0.0016 ppm	0.0290 ppm	0.0523 ppm	0.2407 ppm	31.2926 ppm	2.9319 ppm	0.0577 ppm
Concentration per Run 3	0.0015 ppm	0.0290 ppm	0.0523 ppm	0.2402 ppm	31.3065 ppm	2.9199 ppm	0.0544 ppm
Concentration RSD	3.3 %	0.7 %	0.4 %	0.2 %	0.3 %	0.3 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1974 ppm	0.4150 ppm	0.0359 ppm	0.6345 ppm	0.0857 ppm	0.7967 ppm	0.0061 ppm
Concentration per Run 1	1.2005 ppm	0.4156 ppm	0.0350 ppm	0.6366 ppm	0.0848 ppm	0.7986 ppm	0.0082 ppm
Concentration per Run 2	1.1987 ppm	0.4147 ppm	0.0355 ppm	0.6368 ppm	0.0861 ppm	0.7970 ppm	0.0061 ppm
Concentration per Run 3	1.1930 ppm	0.4147 ppm	0.0372 ppm	0.6302 ppm	0.0860 ppm	0.7945 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.1 %	3.2 %	0.6 %	0.9 %	0.3 %	34.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0088 ppm	2.3229 ppm	0.0456 ppm	0.2809 ppm	0.9007 ppm	-0.0004 ppm	0.1723 ppm
Concentration per Run 1	0.0091 ppm	2.3224 ppm	0.0447 ppm	0.2816 ppm	0.8986 ppm	-0.0008 ppm	0.1724 ppm
Concentration per Run 2	0.0087 ppm	2.3129 ppm	0.0445 ppm	0.2794 ppm	0.8977 ppm	0.0011 ppm	0.1723 ppm
Concentration per Run 3	0.0087 ppm	2.3335 ppm	0.0477 ppm	0.2817 ppm	0.9058 ppm	-0.0013 ppm	0.1720 ppm
Concentration RSD	3.0 %	0.4 %	3.9 %	0.5 %	0.5 %	360.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7792 ppm	99.0863 %	106.1260 %	99.4017 %	106.4508 %	113.6381 %	108.8044 %
Concentration per Run 1	0.7776 ppm	98.7466 %	105.6499 %	99.6073 %	106.5763 %	113.0848 %	109.4012 %
Concentration per Run 2	0.7807 ppm	98.7536 %	106.7534 %	99.0169 %	105.8469 %	114.2356 %	108.4060 %
Concentration per Run 3	0.7793 ppm	99.7586 %	105.9746 %	99.5808 %	106.9293 %	113.5940 %	108.6059 %
Concentration RSD	0.2 %	0.6 %	0.5 %	0.3 %	0.5 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

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LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-09d2 WG1935632
Analysis started at: 6/18/2024 8:54:07 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0257 ppm	35.0573 ppm	0.0567 ppm	0.0134 ppm	3.8966 ppm	0.0016 ppm	9.6663 ppm
Concentration per Run 1	0.0261 ppm	35.1130 ppm	0.0575 ppm	0.0126 ppm	3.8970 ppm	0.0017 ppm	9.6807 ppm
Concentration per Run 2	0.0257 ppm	35.0405 ppm	0.0569 ppm	0.0129 ppm	3.9052 ppm	0.0016 ppm	9.6678 ppm
Concentration per Run 3	0.0253 ppm	35.0183 ppm	0.0557 ppm	0.0147 ppm	3.8876 ppm	0.0016 ppm	9.6504 ppm
Concentration RSD	1.5 %	0.1 %	1.7 %	8.7 %	0.2 %	2.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0195 ppm	0.0410 ppm	0.2055 ppm	1.5017 ppm	84.1840 ppm	2.9924 ppm	0.0444 ppm
Concentration per Run 1	0.0196 ppm	0.0411 ppm	0.2055 ppm	1.5048 ppm	84.2111 ppm	2.9957 ppm	0.0464 ppm
Concentration per Run 2	0.0194 ppm	0.0410 ppm	0.2061 ppm	1.5025 ppm	84.2370 ppm	2.9832 ppm	0.0450 ppm
Concentration per Run 3	0.0196 ppm	0.0409 ppm	0.2050 ppm	1.4978 ppm	84.1039 ppm	2.9983 ppm	0.0419 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %	0.2 %	0.1 %	0.3 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.6036 ppm	1.0440 ppm	0.0134 ppm	0.5916 ppm	0.1447 ppm	5.9367 ppm	0.0581 ppm
Concentration per Run 1	2.6086 ppm	1.0466 ppm	0.0131 ppm	0.5906 ppm	0.1431 ppm	5.9400 ppm	0.0601 ppm
Concentration per Run 2	2.6082 ppm	1.0433 ppm	0.0133 ppm	0.5912 ppm	0.1456 ppm	5.9363 ppm	0.0553 ppm
Concentration per Run 3	2.5940 ppm	1.0420 ppm	0.0139 ppm	0.5931 ppm	0.1455 ppm	5.9338 ppm	0.0587 ppm
Concentration RSD	0.3 %	0.2 %	3.2 %	0.2 %	1.0 %	0.1 %	4.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0064 ppm	4.4031 ppm	0.4717 ppm	0.2616 ppm	0.9334 ppm	-0.0003 ppm	0.1600 ppm
Concentration per Run 1	0.0046 ppm	4.4565 ppm	0.4684 ppm	0.2619 ppm	0.9405 ppm	-0.0009 ppm	0.1607 ppm
Concentration per Run 2	0.0065 ppm	4.3786 ppm	0.4715 ppm	0.2615 ppm	0.9323 ppm	0.0002 ppm	0.1597 ppm
Concentration per Run 3	0.0080 ppm	4.3743 ppm	0.4751 ppm	0.2614 ppm	0.9273 ppm	-0.0002 ppm	0.1596 ppm
Concentration RSD	26.5 %	1.1 %	0.7 %	0.1 %	0.7 %	166.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.2941 ppm	100.1172 %	106.2384 %	98.2775 %	104.5412 %	111.2709 %	106.2482 %
Concentration per Run 1	6.2906 ppm	99.8331 %	106.1656 %	98.1521 %	104.4198 %	111.3004 %	106.2403 %
Concentration per Run 2	6.3223 ppm	100.0470 %	106.2615 %	98.5966 %	104.4742 %	111.1481 %	106.5911 %
Concentration per Run 3	6.2693 ppm	100.4716 %	106.2880 %	98.0837 %	104.7296 %	111.3643 %	105.9134 %
Concentration RSD	0.4 %	0.3 %	0.1 %	0.3 %	0.2 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: eL2432952-10d2 WG1935632
Analysis started at: 6/18/2024 8:58:08 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	33.4087 ppm	0.1216 ppm	0.0493 ppm	22.0322 ppm	0.0024 ppm	20.6191 ppm
Concentration per Run 1	0.0051 ppm	33.3944 ppm	0.1227 ppm	0.0491 ppm	22.0255 ppm	0.0024 ppm	20.6181 ppm
Concentration per Run 2	0.0057 ppm	33.3882 ppm	0.1209 ppm	0.0483 ppm	22.0021 ppm	0.0024 ppm	20.6028 ppm
Concentration per Run 3	0.0056 ppm	33.4434 ppm	0.1213 ppm	0.0504 ppm	22.0691 ppm	0.0025 ppm	20.6365 ppm
Concentration RSD	5.1 %	0.1 %	0.8 %	2.2 %	0.2 %	1.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0172 ppm	0.1053 ppm	0.1279 ppm	1.3886 ppm	210.4333 ppm	7.8508 ppm	0.1152 ppm
Concentration per Run 1	0.0171 ppm	0.1042 ppm	0.1274 ppm	1.3817 ppm	210.4599 ppm	7.8274 ppm	0.1148 ppm
Concentration per Run 2	0.0172 ppm	0.1055 ppm	0.1288 ppm	1.3922 ppm	210.2558 ppm	7.8881 ppm	0.1165 ppm
Concentration per Run 3	0.0172 ppm	0.1061 ppm	0.1276 ppm	1.3919 ppm	210.5842 ppm	7.8370 ppm	0.1144 ppm
Concentration RSD	0.3 %	0.9 %	0.6 %	0.4 %	0.1 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.9317 ppm	1.8593 ppm	0.0764 ppm	1.9965 ppm	0.2939 ppm	22.4945 ppm	0.6341 ppm
Concentration per Run 1	13.8754 ppm	1.8580 ppm	0.0742 ppm	2.0029 ppm	0.2929 ppm	22.3681 ppm	0.6322 ppm
Concentration per Run 2	13.9658 ppm	1.8586 ppm	0.0767 ppm	1.9924 ppm	0.2950 ppm	22.5250 ppm	0.6361 ppm
Concentration per Run 3	13.9539 ppm	1.8611 ppm	0.0782 ppm	1.9942 ppm	0.2936 ppm	22.5903 ppm	0.6339 ppm
Concentration RSD	0.4 %	0.1 %	2.6 %	0.3 %	0.4 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0159 ppm	6.0263 ppm	0.4402 ppm	0.4868 ppm	1.2705 ppm	0.0016 ppm	0.2414 ppm
Concentration per Run 1	0.0148 ppm	5.9757 ppm	0.4404 ppm	0.4864 ppm	1.2633 ppm	0.0009 ppm	0.2405 ppm
Concentration per Run 2	0.0137 ppm	6.0327 ppm	0.4385 ppm	0.4865 ppm	1.2792 ppm	0.0016 ppm	0.2418 ppm
Concentration per Run 3	0.0192 ppm	6.0703 ppm	0.4417 ppm	0.4874 ppm	1.2690 ppm	0.0023 ppm	0.2417 ppm
Concentration RSD	18.2 %	0.8 %	0.4 %	0.1 %	0.6 %	42.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	59.2085 ppm	102.6159 %	108.1275 %	95.1736 %	105.1414 %	113.3297 %	106.1253 %
Concentration per Run 1	59.2148 ppm	102.5311 %	107.9618 %	95.6338 %	104.8357 %	113.1628 %	106.5002 %
Concentration per Run 2	59.3122 ppm	102.4435 %	108.3604 %	95.0753 %	104.8939 %	113.5594 %	106.1760 %
Concentration per Run 3	59.0986 ppm	102.8732 %	108.0604 %	94.8116 %	105.6948 %	113.2669 %	105.6999 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.4 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-11d2 WG1935632
Analysis started at: 6/18/2024 9:02:09 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	35.6341 ppm	0.0281 ppm	0.0117 ppm	2.9753 ppm	0.0024 ppm	18.4024 ppm
Concentration per Run 1	0.0017 ppm	35.5920 ppm	0.0276 ppm	0.0113 ppm	2.9623 ppm	0.0023 ppm	18.3861 ppm
Concentration per Run 2	0.0016 ppm	35.6625 ppm	0.0278 ppm	0.0112 ppm	2.9776 ppm	0.0024 ppm	18.4097 ppm
Concentration per Run 3	0.0014 ppm	35.6477 ppm	0.0291 ppm	0.0127 ppm	2.9859 ppm	0.0024 ppm	18.4113 ppm
Concentration RSD	9.9 %	0.1 %	3.0 %	7.3 %	0.4 %	1.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0335 ppm	0.1922 ppm	0.2642 ppm	30.7670 ppm	3.7528 ppm	0.0521 ppm
Concentration per Run 1	0.0046 ppm	0.0338 ppm	0.1923 ppm	0.2655 ppm	30.6264 ppm	3.7588 ppm	0.0535 ppm
Concentration per Run 2	0.0046 ppm	0.0334 ppm	0.1926 ppm	0.2641 ppm	30.8710 ppm	3.7715 ppm	0.0500 ppm
Concentration per Run 3	0.0047 ppm	0.0332 ppm	0.1917 ppm	0.2629 ppm	30.8036 ppm	3.7280 ppm	0.0530 ppm
Concentration RSD	1.3 %	1.0 %	0.3 %	0.5 %	0.4 %	0.6 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5268 ppm	0.4772 ppm	0.0222 ppm	0.9299 ppm	0.0965 ppm	0.8213 ppm	0.0093 ppm
Concentration per Run 1	1.5351 ppm	0.4772 ppm	0.0219 ppm	0.9298 ppm	0.0985 ppm	0.8202 ppm	0.0089 ppm
Concentration per Run 2	1.5248 ppm	0.4773 ppm	0.0223 ppm	0.9294 ppm	0.0963 ppm	0.8226 ppm	0.0131 ppm
Concentration per Run 3	1.5205 ppm	0.4772 ppm	0.0223 ppm	0.9304 ppm	0.0948 ppm	0.8212 ppm	0.0059 ppm
Concentration RSD	0.5 %	0.0 %	0.9 %	0.1 %	1.9 %	0.1 %	39.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0134 ppm	2.2452 ppm	0.0666 ppm	0.4174 ppm	0.5843 ppm	0.0006 ppm	0.1475 ppm
Concentration per Run 1	0.0124 ppm	2.2696 ppm	0.0665 ppm	0.4161 ppm	0.5939 ppm	0.0012 ppm	0.1479 ppm
Concentration per Run 2	0.0150 ppm	2.2421 ppm	0.0669 ppm	0.4190 ppm	0.5750 ppm	0.0000 ppm	0.1478 ppm
Concentration per Run 3	0.0127 ppm	2.2240 ppm	0.0664 ppm	0.4171 ppm	0.5841 ppm	0.0007 ppm	0.1469 ppm
Concentration RSD	10.8 %	1.0 %	0.4 %	0.4 %	1.6 %	89.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.3408 ppm	99.1771 %	106.5261 %	99.1979 %	111.0942 %	119.6449 %	113.6321 %
Concentration per Run 1	2.3453 ppm	98.3644 %	106.0760 %	99.4493 %	111.0285 %	119.2050 %	114.0226 %
Concentration per Run 2	2.3392 ppm	99.3413 %	106.4730 %	98.6313 %	111.3751 %	119.3535 %	113.2127 %
Concentration per Run 3	2.3378 ppm	99.8256 %	107.0293 %	99.5130 %	110.8790 %	120.3760 %	113.6608 %
Concentration RSD	0.2 %	0.8 %	0.4 %	0.5 %	0.2 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-12d2 WG1935632
Analysis started at: 6/18/2024 9:06:10 PM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	31.7571 ppm	0.1091 ppm	0.0150 ppm	1.5516 ppm	0.0025 ppm	17.9786 ppm
Concentration per Run 1	0.0028 ppm	31.8205 ppm	0.1106 ppm	0.0130 ppm	1.5467 ppm	0.0025 ppm	18.0253 ppm
Concentration per Run 2	0.0029 ppm	31.7062 ppm	0.1082 ppm	0.0151 ppm	1.5604 ppm	0.0025 ppm	17.9469 ppm
Concentration per Run 3	0.0030 ppm	31.7448 ppm	0.1086 ppm	0.0169 ppm	1.5477 ppm	0.0025 ppm	17.9635 ppm
Concentration RSD	3.3 %	0.2 %	1.2 %	13.0 %	0.5 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0762 ppm	0.0955 ppm	0.9250 ppm	75.3990 ppm	7.1756 ppm	0.1011 ppm
Concentration per Run 1	0.0039 ppm	0.0768 ppm	0.0967 ppm	0.9275 ppm	75.3348 ppm	7.1553 ppm	0.1014 ppm
Concentration per Run 2	0.0036 ppm	0.0758 ppm	0.0949 ppm	0.9253 ppm	75.4247 ppm	7.1748 ppm	0.0994 ppm
Concentration per Run 3	0.0037 ppm	0.0760 ppm	0.0950 ppm	0.9221 ppm	75.4376 ppm	7.1968 ppm	0.1026 ppm
Concentration RSD	3.7 %	0.7 %	1.1 %	0.3 %	0.1 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.6874 ppm	1.0755 ppm	0.0327 ppm	1.4547 ppm	0.1505 ppm	2.1562 ppm	0.0227 ppm
Concentration per Run 1	3.7081 ppm	1.0794 ppm	0.0319 ppm	1.4583 ppm	0.1510 ppm	2.1662 ppm	0.0213 ppm
Concentration per Run 2	3.6739 ppm	1.0736 ppm	0.0326 ppm	1.4570 ppm	0.1501 ppm	2.1484 ppm	0.0239 ppm
Concentration per Run 3	3.6802 ppm	1.0736 ppm	0.0335 ppm	1.4486 ppm	0.1504 ppm	2.1541 ppm	0.0230 ppm
Concentration RSD	0.5 %	0.3 %	2.4 %	0.4 %	0.3 %	0.4 %	5.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0080 ppm	2.3341 ppm	0.1090 ppm	0.4054 ppm	0.7937 ppm	0.0008 ppm	0.3477 ppm
Concentration per Run 1	0.0099 ppm	2.3215 ppm	0.1087 ppm	0.4074 ppm	0.7968 ppm	0.0014 ppm	0.3481 ppm
Concentration per Run 2	0.0080 ppm	2.3357 ppm	0.1100 ppm	0.4055 ppm	0.7882 ppm	0.0005 ppm	0.3475 ppm
Concentration per Run 3	0.0062 ppm	2.3452 ppm	0.1083 ppm	0.4033 ppm	0.7960 ppm	0.0006 ppm	0.3474 ppm
Concentration RSD	23.6 %	0.5 %	0.8 %	0.5 %	0.6 %	60.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7464 ppm	100.8658 %	106.5142 %	99.5772 %	109.1419 %	116.0619 %	111.2926 %
Concentration per Run 1	2.7699 ppm	99.6650 %	105.4183 %	98.8864 %	108.1934 %	114.9825 %	110.4761 %
Concentration per Run 2	2.7337 ppm	101.6148 %	107.8104 %	100.1031 %	109.8531 %	117.4192 %	111.7042 %
Concentration per Run 3	2.7357 ppm	101.3175 %	106.3138 %	99.7421 %	109.3792 %	115.7840 %	111.6976 %
Concentration RSD	0.7 %	1.0 %	1.1 %	0.6 %	0.8 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-13d2 WG1935632
Analysis started at: 6/18/2024 9:10:12 PM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	22.8354 ppm	0.0659 ppm	0.0272 ppm	0.9292 ppm	0.0022 ppm	55.4640 ppm
Concentration per Run 1	0.0034 ppm	22.9208 ppm	0.0667 ppm	0.0289 ppm	0.9320 ppm	0.0022 ppm	55.5398 ppm
Concentration per Run 2	0.0028 ppm	22.7887 ppm	0.0654 ppm	0.0258 ppm	0.9270 ppm	0.0022 ppm	55.4211 ppm
Concentration per Run 3	0.0032 ppm	22.7967 ppm	0.0655 ppm	0.0269 ppm	0.9287 ppm	0.0022 ppm	55.4311 ppm
Concentration RSD	9.6 %	0.3 %	1.1 %	5.8 %	0.3 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0055 ppm	0.0394 ppm	0.0766 ppm	0.6130 ppm	25.7270 ppm	5.1380 ppm	0.1124 ppm
Concentration per Run 1	0.0054 ppm	0.0392 ppm	0.0775 ppm	0.6126 ppm	25.7762 ppm	5.2185 ppm	0.1137 ppm
Concentration per Run 2	0.0055 ppm	0.0390 ppm	0.0759 ppm	0.6136 ppm	25.7085 ppm	5.0895 ppm	0.1111 ppm
Concentration per Run 3	0.0055 ppm	0.0399 ppm	0.0765 ppm	0.6127 ppm	25.6964 ppm	5.1061 ppm	0.1123 ppm
Concentration RSD	0.7 %	1.2 %	1.1 %	0.1 %	0.2 %	1.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2488 ppm	0.5333 ppm	0.0264 ppm	1.4498 ppm	0.3034 ppm	2.8703 ppm	0.0131 ppm
Concentration per Run 1	7.2954 ppm	0.5347 ppm	0.0260 ppm	1.4514 ppm	0.3032 ppm	2.8964 ppm	0.0116 ppm
Concentration per Run 2	7.2347 ppm	0.5329 ppm	0.0267 ppm	1.4465 ppm	0.3050 ppm	2.8689 ppm	0.0136 ppm
Concentration per Run 3	7.2164 ppm	0.5324 ppm	0.0267 ppm	1.4514 ppm	0.3019 ppm	2.8457 ppm	0.0143 ppm
Concentration RSD	0.6 %	0.2 %	1.6 %	0.2 %	0.5 %	0.9 %	10.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0117 ppm	3.1959 ppm	0.0636 ppm	0.4440 ppm	0.6047 ppm	0.0006 ppm	0.1758 ppm
Concentration per Run 1	0.0129 ppm	3.1999 ppm	0.0634 ppm	0.4461 ppm	0.6140 ppm	0.0005 ppm	0.1761 ppm
Concentration per Run 2	0.0114 ppm	3.1884 ppm	0.0649 ppm	0.4453 ppm	0.6025 ppm	-0.0001 ppm	0.1756 ppm
Concentration per Run 3	0.0108 ppm	3.1994 ppm	0.0627 ppm	0.4405 ppm	0.5975 ppm	0.0013 ppm	0.1757 ppm
Concentration RSD	9.1 %	0.2 %	1.8 %	0.7 %	1.4 %	135.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.5248 ppm	99.2749 %	106.5747 %	98.3995 %	107.0203 %	114.9072 %	108.4209 %
Concentration per Run 1	3.5321 ppm	98.6430 %	106.4388 %	97.8180 %	106.8093 %	115.0830 %	108.1867 %
Concentration per Run 2	3.5316 ppm	99.6000 %	106.9638 %	98.4062 %	107.3697 %	115.1303 %	108.4921 %
Concentration per Run 3	3.5108 ppm	99.5816 %	106.3216 %	98.9742 %	106.8819 %	114.5082 %	108.5839 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.6 %	0.3 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-14d2 WG1935632
Analysis started at: 6/18/2024 9:14:12 PM
Rack 3
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	21.7392 ppm	0.0730 ppm	0.0178 ppm	1.4532 ppm	0.0015 ppm	139.0769 ppm
Concentration per Run 1	0.0026 ppm	21.7495 ppm	0.0752 ppm	0.0184 ppm	1.4540 ppm	0.0014 ppm	139.0214 ppm
Concentration per Run 2	0.0025 ppm	21.7301 ppm	0.0721 ppm	0.0186 ppm	1.4503 ppm	0.0015 ppm	138.8800 ppm
Concentration per Run 3	0.0024 ppm	21.7378 ppm	0.0719 ppm	0.0166 ppm	1.4554 ppm	0.0015 ppm	139.3292 ppm
Concentration RSD	5.2 %	0.0 %	2.6 %	6.2 %	0.2 %	2.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0062 ppm	0.0561 ppm	0.1229 ppm	0.6136 ppm	257.7474 ppm	5.5027 ppm	0.0647 ppm
Concentration per Run 1	0.0061 ppm	0.0552 ppm	0.1227 ppm	0.6117 ppm	257.9270 ppm	5.5378 ppm	0.0664 ppm
Concentration per Run 2	0.0062 ppm	0.0567 ppm	0.1226 ppm	0.6156 ppm	257.3271 ppm	5.4855 ppm	0.0624 ppm
Concentration per Run 3	0.0063 ppm	0.0563 ppm	0.1233 ppm	0.6133 ppm	257.9880 ppm	5.4847 ppm	0.0652 ppm
Concentration RSD	1.4 %	1.4 %	0.3 %	0.3 %	0.1 %	0.6 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.5050 ppm	2.0401 ppm	0.0209 ppm	1.4682 ppm	0.1481 ppm	26.0070 ppm	0.0471 ppm
Concentration per Run 1	3.4962 ppm	2.0368 ppm	0.0204 ppm	1.4690 ppm	0.1486 ppm	26.0447 ppm	0.0473 ppm
Concentration per Run 2	3.4981 ppm	2.0370 ppm	0.0206 ppm	1.4670 ppm	0.1474 ppm	25.9797 ppm	0.0438 ppm
Concentration per Run 3	3.5209 ppm	2.0464 ppm	0.0217 ppm	1.4685 ppm	0.1483 ppm	25.9967 ppm	0.0502 ppm
Concentration RSD	0.4 %	0.3 %	3.4 %	0.1 %	0.4 %	0.1 %	6.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	3.2119 ppm	3.5899 ppm	0.8964 ppm	0.5479 ppm	-0.0004 ppm	0.1062 ppm
Concentration per Run 1	0.0035 ppm	3.2842 ppm	3.5854 ppm	0.8980 ppm	0.5574 ppm	0.0006 ppm	0.1057 ppm
Concentration per Run 2	0.0045 ppm	3.1753 ppm	3.5781 ppm	0.8961 ppm	0.5410 ppm	-0.0020 ppm	0.1062 ppm
Concentration per Run 3	0.0063 ppm	3.1763 ppm	3.6063 ppm	0.8950 ppm	0.5452 ppm	0.0004 ppm	0.1068 ppm
Concentration RSD	29.3 %	1.9 %	0.4 %	0.2 %	1.6 %	412.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.1152 ppm	99.0116 %	104.0058 %	93.2190 %	99.9579 %	107.2229 %	101.1001 %
Concentration per Run 1	5.0896 ppm	99.1618 %	104.1186 %	93.2766 %	99.7555 %	107.2454 %	101.0539 %
Concentration per Run 2	5.1094 ppm	99.0444 %	103.8833 %	93.4101 %	100.1009 %	107.2050 %	101.2811 %
Concentration per Run 3	5.1468 ppm	98.8285 %	104.0157 %	92.9704 %	100.0173 %	107.2183 %	100.9652 %
Concentration RSD	0.6 %	0.2 %	0.1 %	0.2 %	0.2 %	0.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 9:18:13 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5177 ppm	0.5070 ppm	0.4847 ppm	0.5051 ppm	0.5326 ppm	0.4901 ppm	0.4845 ppm
Concentration per Run 1	0.5170 ppm	0.5115 ppm	0.4828 ppm	0.5046 ppm	0.5327 ppm	0.4893 ppm	0.4882 ppm
Concentration per Run 2	0.5174 ppm	0.5103 ppm	0.4845 ppm	0.5057 ppm	0.5330 ppm	0.4914 ppm	0.4872 ppm
Concentration per Run 3	0.5188 ppm	0.4992 ppm	0.4867 ppm	0.5049 ppm	0.5321 ppm	0.4896 ppm	0.4781 ppm
Recovery Percentage 1	103.545 %	101.404 %	96.931 %	101.014 %	106.522 %	98.027 %	96.896 %
Concentration RSD	0.2 %	1.3 %	0.4 %	0.1 %	0.1 %	0.2 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5172 ppm	0.5261 ppm	0.5141 ppm	0.5041 ppm	0.4886 ppm	5.6573 ppm	0.5170 ppm
Concentration per Run 1	0.5179 ppm	0.5278 ppm	0.5134 ppm	0.5049 ppm	0.4871 ppm	5.7054 ppm	0.5178 ppm
Concentration per Run 2	0.5159 ppm	0.5247 ppm	0.5130 ppm	0.5031 ppm	0.4864 ppm	5.6178 ppm	0.5182 ppm
Concentration per Run 3	0.5179 ppm	0.5260 ppm	0.5159 ppm	0.5042 ppm	0.4923 ppm	5.6486 ppm	0.5150 ppm
Recovery Percentage 1	103.449 %	105.230 %	102.819 %	100.814 %	97.721 %	113.145 %	103.405 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.2 %	0.7 %	0.8 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5032 ppm	0.4660 ppm	0.5105 ppm	11.2016 ppm	0.5309 ppm	0.5028 ppm	0.5051 ppm
Concentration per Run 1	0.5047 ppm	0.4669 ppm	0.5025 ppm	11.2209 ppm	0.5321 ppm	0.5010 ppm	0.5030 ppm
Concentration per Run 2	0.5021 ppm	0.4646 ppm	0.5104 ppm	11.2006 ppm	0.5295 ppm	0.5046 ppm	0.5005 ppm
Concentration per Run 3	0.5028 ppm	0.4663 ppm	0.5186 ppm	11.1834 ppm	0.5311 ppm	0.5029 ppm	0.5117 ppm
Recovery Percentage 1	100.645 %	93.191 %	102.101 %	112.016 %	106.178 %	100.563 %	101.013 %
Concentration RSD	0.3 %	0.3 %	1.6 %	0.2 %	0.2 %	0.4 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5016 ppm	5.3668 ppm	0.5245 ppm	0.5260 ppm	0.5203 ppm	0.4927 ppm	0.5122 ppm
Concentration per Run 1	0.5011 ppm	5.3586 ppm	0.5267 ppm	0.5258 ppm	0.5191 ppm	0.4909 ppm	0.5117 ppm
Concentration per Run 2	0.5008 ppm	5.3662 ppm	0.5193 ppm	0.5276 ppm	0.5202 ppm	0.4933 ppm	0.5127 ppm
Concentration per Run 3	0.5029 ppm	5.3757 ppm	0.5274 ppm	0.5246 ppm	0.5216 ppm	0.4938 ppm	0.5122 ppm
Recovery Percentage 1	100.319 %	102.225 %	104.892 %	105.197 %	104.060 %	98.539 %	102.442 %
Concentration RSD	0.2 %	0.2 %	0.9 %	0.3 %	0.2 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5315 ppm	97.8612 %	102.5276 %	98.6429 %	96.4628 %	101.2755 %	98.0885 %
Concentration per Run 1	0.5325 ppm	97.3744 %	101.7619 %	99.2319 %	95.9875 %	100.6241 %	98.6639 %
Concentration per Run 2	0.5283 ppm	98.2115 %	103.3871 %	98.2467 %	96.8820 %	102.1218 %	97.6371 %
Concentration per Run 3	0.5336 ppm	97.9978 %	102.4338 %	98.4500 %	96.5188 %	101.0806 %	97.9645 %
Recovery Percentage 1	106.292 %						
Concentration RSD	0.5 %	0.4 %	0.8 %	0.5 %	0.5 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 9:22:12 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0136 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0004 ppm	-0.0103 ppm	0.0013 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	-0.0197 ppm	-0.0017 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 3	-0.0001 ppm	-0.0107 ppm	-0.0012 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	0.446 %	-13.565 %	-18.521 %	0.224 %	-0.718 %	0.587 %	-1.286 %
Concentration RSD	976.0 %	39.1 %	287.9 %	1,345.6 %	46.6 %	154.8 %	174.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0063 ppm	-0.0070 ppm	-0.0031 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0050 ppm	-0.0195 ppm	-0.0036 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	0.0052 ppm	-0.0019 ppm	-0.0023 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0000 ppm	-0.0003 ppm	0.0087 ppm	0.0005 ppm	-0.0034 ppm
Recovery Percentage 1	0.912 %	-3.422 %	0.611 %	-1.905 %	12.618 %	-0.278 %	-30.785 %
Concentration RSD	89.0 %	59.1 %	156.9 %	48.5 %	33.4 %	156.5 %	22.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0039 ppm	0.0003 ppm	-0.0010 ppm	0.0074 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0046 ppm	0.0005 ppm	-0.0015 ppm	0.0052 ppm	0.0001 ppm	0.0001 ppm	-0.0047 ppm
Concentration per Run 2	-0.0035 ppm	0.0001 ppm	-0.0007 ppm	0.0116 ppm	-0.0008 ppm	0.0006 ppm	0.0016 ppm
Concentration per Run 3	-0.0036 ppm	0.0004 ppm	-0.0009 ppm	0.0053 ppm	0.0004 ppm	-0.0007 ppm	0.0008 ppm
Recovery Percentage 1	-3.907 %	3.404 %	-2.011 %	0.370 %	-0.394 %	0.056 %	-1.536 %
Concentration RSD	15.1 %	55.1 %	45.0 %	49.7 %	609.7 %	11,632.2 %	451.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0066 ppm	0.0011 ppm	0.0002 ppm	-0.0003 ppm	-0.0017 ppm	-0.0002 ppm
Concentration per Run 1	0.0018 ppm	0.0034 ppm	0.0008 ppm	0.0003 ppm	-0.0003 ppm	-0.0018 ppm	-0.0004 ppm
Concentration per Run 2	-0.0015 ppm	0.0080 ppm	0.0010 ppm	0.0003 ppm	-0.0004 ppm	-0.0018 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	0.0085 ppm	0.0014 ppm	0.0002 ppm	-0.0003 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	7.790 %	1.325 %	2.128 %	2.486 %	-3.362 %	-8.317 %	-2.160 %
Concentration RSD	255.6 %	42.3 %	26.1 %	15.0 %	17.5 %	15.2 %	102.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	91.5113 %	97.6363 %	94.5727 %	96.9066 %	101.0914 %	98.6427 %
Concentration per Run 1	0.0009 ppm	90.0930 %	97.8444 %	94.1557 %	96.3460 %	101.5759 %	98.6625 %
Concentration per Run 2	0.0009 ppm	91.8041 %	97.5091 %	94.5218 %	97.0780 %	101.1119 %	98.6111 %
Concentration per Run 3	0.0009 ppm	92.6369 %	97.5552 %	95.0405 %	97.2958 %	100.5864 %	98.6545 %
Recovery Percentage 1	17.555 %						
Concentration RSD	1.3 %	1.4 %	0.2 %	0.5 %	0.5 %	0.5 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-15d2 WG1935632
Analysis started at: 6/18/2024 9:30:03 PM
Rack 3
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	47.0950 ppm	0.0457 ppm	0.0028 ppm	0.7525 ppm	0.0019 ppm	10.0897 ppm
Concentration per Run 1	0.0014 ppm	46.7803 ppm	0.0446 ppm	0.0032 ppm	0.7465 ppm	0.0019 ppm	10.0359 ppm
Concentration per Run 2	0.0010 ppm	47.0265 ppm	0.0456 ppm	0.0037 ppm	0.7534 ppm	0.0019 ppm	10.0467 ppm
Concentration per Run 3	0.0018 ppm	47.4782 ppm	0.0469 ppm	0.0016 ppm	0.7576 ppm	0.0020 ppm	10.1864 ppm
Concentration RSD	27.7 %	0.8 %	2.6 %	39.8 %	0.7 %	1.0 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0184 ppm	0.0763 ppm	0.3010 ppm	115.6502 ppm	2.7715 ppm	0.0616 ppm
Concentration per Run 1	0.0032 ppm	0.0175 ppm	0.0733 ppm	0.2883 ppm	114.7016 ppm	2.7966 ppm	0.0646 ppm
Concentration per Run 2	0.0033 ppm	0.0185 ppm	0.0765 ppm	0.3027 ppm	116.1144 ppm	2.7519 ppm	0.0620 ppm
Concentration per Run 3	0.0035 ppm	0.0191 ppm	0.0790 ppm	0.3121 ppm	116.1345 ppm	2.7659 ppm	0.0582 ppm
Concentration RSD	4.7 %	4.4 %	3.7 %	4.0 %	0.7 %	0.8 %	5.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8226 ppm	0.6129 ppm	0.0084 ppm	0.2346 ppm	0.0582 ppm	4.7991 ppm	0.0098 ppm
Concentration per Run 1	2.7084 ppm	0.6082 ppm	0.0078 ppm	0.2363 ppm	0.0553 ppm	4.7394 ppm	0.0097 ppm
Concentration per Run 2	2.8331 ppm	0.6143 ppm	0.0081 ppm	0.2308 ppm	0.0589 ppm	4.7796 ppm	0.0111 ppm
Concentration per Run 3	2.9264 ppm	0.6162 ppm	0.0092 ppm	0.2368 ppm	0.0603 ppm	4.8785 ppm	0.0085 ppm
Concentration RSD	3.9 %	0.7 %	8.3 %	1.4 %	4.4 %	1.5 %	13.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0071 ppm	2.7139 ppm	0.1069 ppm	0.1294 ppm	0.3056 ppm	0.0002 ppm	0.1231 ppm
Concentration per Run 1	0.0071 ppm	2.6259 ppm	0.1055 ppm	0.1279 ppm	0.2992 ppm	0.0003 ppm	0.1178 ppm
Concentration per Run 2	0.0103 ppm	2.7342 ppm	0.1082 ppm	0.1300 ppm	0.3016 ppm	0.0006 ppm	0.1235 ppm
Concentration per Run 3	0.0039 ppm	2.7816 ppm	0.1071 ppm	0.1303 ppm	0.3160 ppm	-0.0002 ppm	0.1280 ppm
Concentration RSD	44.9 %	2.9 %	1.3 %	1.0 %	3.0 %	174.9 %	4.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9366 ppm	123.6461 %	110.3082 %	109.1482 %	105.4251 %	107.9430 %	106.0595 %
Concentration per Run 1	0.8976 ppm	128.6572 %	110.3080 %	110.5479 %	105.1103 %	107.4001 %	105.9074 %
Concentration per Run 2	0.9401 ppm	123.3425 %	110.6162 %	109.1566 %	105.9671 %	108.2601 %	106.0547 %
Concentration per Run 3	0.9719 ppm	118.9385 %	110.0002 %	107.7399 %	105.1978 %	108.1690 %	106.2164 %
Concentration RSD	4.0 %	3.9 %	0.3 %	1.3 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-16d2 WG1935632
Analysis started at: 6/18/2024 9:34:25 PM
Rack 3
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0053 ppm	79.6795 ppm	0.1321 ppm	0.0560 ppm	3.9064 ppm	0.0047 ppm	69.2939 ppm
Concentration per Run 1	0.0056 ppm	79.4867 ppm	0.1322 ppm	0.0556 ppm	3.8965 ppm	0.0047 ppm	69.1307 ppm
Concentration per Run 2	0.0051 ppm	79.7595 ppm	0.1308 ppm	0.0550 ppm	3.9079 ppm	0.0047 ppm	69.3900 ppm
Concentration per Run 3	0.0053 ppm	79.7924 ppm	0.1334 ppm	0.0574 ppm	3.9148 ppm	0.0047 ppm	69.3610 ppm
Concentration RSD	5.0 %	0.2 %	1.0 %	2.2 %	0.2 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0168 ppm	0.0538 ppm	0.1915 ppm	0.8530 ppm	450.6620 ppm	8.6385 ppm	0.1044 ppm
Concentration per Run 1	0.0168 ppm	0.0537 ppm	0.1900 ppm	0.8470 ppm	449.9143 ppm	8.6578 ppm	0.1047 ppm
Concentration per Run 2	0.0168 ppm	0.0542 ppm	0.1923 ppm	0.8538 ppm	451.2707 ppm	8.6065 ppm	0.1042 ppm
Concentration per Run 3	0.0168 ppm	0.0535 ppm	0.1921 ppm	0.8581 ppm	450.8011 ppm	8.6513 ppm	0.1042 ppm
Concentration RSD	0.1 %	0.7 %	0.7 %	0.7 %	0.2 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3068 ppm	4.0392 ppm	0.0159 ppm	1.7448 ppm	0.2599 ppm	26.7158 ppm	0.0714 ppm
Concentration per Run 1	15.2228 ppm	4.0271 ppm	0.0156 ppm	1.7488 ppm	0.2581 ppm	26.6012 ppm	0.0732 ppm
Concentration per Run 2	15.3372 ppm	4.0418 ppm	0.0159 ppm	1.7395 ppm	0.2616 ppm	26.7816 ppm	0.0706 ppm
Concentration per Run 3	15.3604 ppm	4.0486 ppm	0.0163 ppm	1.7463 ppm	0.2599 ppm	26.7645 ppm	0.0705 ppm
Concentration RSD	0.5 %	0.3 %	2.0 %	0.3 %	0.7 %	0.4 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0678 ppm	9.1971 ppm	1.5341 ppm	0.5024 ppm	1.6093 ppm	0.0005 ppm	0.1536 ppm
Concentration per Run 1	0.0665 ppm	9.1495 ppm	1.5285 ppm	0.5024 ppm	1.5914 ppm	-0.0004 ppm	0.1522 ppm
Concentration per Run 2	0.0699 ppm	9.2266 ppm	1.5351 ppm	0.5020 ppm	1.6234 ppm	-0.0002 ppm	0.1539 ppm
Concentration per Run 3	0.0669 ppm	9.2152 ppm	1.5387 ppm	0.5026 ppm	1.6130 ppm	0.0021 ppm	0.1546 ppm
Concentration RSD	2.8 %	0.5 %	0.3 %	0.1 %	1.0 %	279.9 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	14.4855 ppm	101.9396 %	106.3291 %	91.2037 %	113.2409 %	122.4914 %	114.3510 %
Concentration per Run 1	14.4077 ppm	102.0698 %	106.0802 %	91.6563 %	112.8832 %	121.8588 %	114.4419 %
Concentration per Run 2	14.5006 ppm	101.9641 %	106.4680 %	90.7274 %	113.2232 %	122.8070 %	113.7656 %
Concentration per Run 3	14.5481 ppm	101.7849 %	106.4391 %	91.2274 %	113.6162 %	122.8084 %	114.8454 %
Concentration RSD	0.5 %	0.1 %	0.2 %	0.5 %	0.3 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-17d2 WG1935632
Analysis started at: 6/18/2024 9:38:26 PM
Rack 3
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	24.7186 ppm	0.0255 ppm	0.0136 ppm	0.8694 ppm	0.0014 ppm	23.9400 ppm
Concentration per Run 1	-0.0002 ppm	24.7535 ppm	0.0266 ppm	0.0130 ppm	0.8713 ppm	0.0014 ppm	23.9305 ppm
Concentration per Run 2	0.0005 ppm	24.7643 ppm	0.0242 ppm	0.0150 ppm	0.8718 ppm	0.0014 ppm	24.0085 ppm
Concentration per Run 3	0.0006 ppm	24.6382 ppm	0.0259 ppm	0.0129 ppm	0.8651 ppm	0.0015 ppm	23.8810 ppm
Concentration RSD	141.3 %	0.3 %	4.8 %	8.6 %	0.4 %	3.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0097 ppm	0.0306 ppm	0.0953 ppm	0.2653 ppm	71.4195 ppm	2.8589 ppm	0.0522 ppm
Concentration per Run 1	0.0097 ppm	0.0311 ppm	0.0956 ppm	0.2668 ppm	71.4006 ppm	2.9216 ppm	0.0532 ppm
Concentration per Run 2	0.0097 ppm	0.0307 ppm	0.0948 ppm	0.2651 ppm	71.5140 ppm	2.8531 ppm	0.0547 ppm
Concentration per Run 3	0.0096 ppm	0.0300 ppm	0.0955 ppm	0.2639 ppm	71.3439 ppm	2.8021 ppm	0.0487 ppm
Concentration RSD	0.9 %	1.7 %	0.5 %	0.5 %	0.1 %	2.1 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3332 ppm	0.7583 ppm	0.0064 ppm	0.6878 ppm	0.0731 ppm	3.8404 ppm	0.0117 ppm
Concentration per Run 1	4.3536 ppm	0.7589 ppm	0.0060 ppm	0.6853 ppm	0.0728 ppm	3.8496 ppm	0.0084 ppm
Concentration per Run 2	4.3323 ppm	0.7594 ppm	0.0063 ppm	0.6896 ppm	0.0734 ppm	3.8274 ppm	0.0157 ppm
Concentration per Run 3	4.3137 ppm	0.7565 ppm	0.0069 ppm	0.6886 ppm	0.0731 ppm	3.8442 ppm	0.0109 ppm
Concentration RSD	0.5 %	0.2 %	6.6 %	0.3 %	0.4 %	0.3 %	31.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0048 ppm	2.6386 ppm	0.0681 ppm	0.6407 ppm	8.0251 ppm	0.0012 ppm	0.1911 ppm
Concentration per Run 1	0.0055 ppm	2.6643 ppm	0.0687 ppm	0.6391 ppm	8.0566 ppm	0.0006 ppm	0.1915 ppm
Concentration per Run 2	0.0063 ppm	2.6210 ppm	0.0678 ppm	0.6422 ppm	8.0125 ppm	0.0018 ppm	0.1909 ppm
Concentration per Run 3	0.0026 ppm	2.6304 ppm	0.0679 ppm	0.6409 ppm	8.0061 ppm	0.0013 ppm	0.1909 ppm
Concentration RSD	41.0 %	0.9 %	0.7 %	0.2 %	0.3 %	46.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6552 ppm	99.2108 %	104.7967 %	91.9164 %	102.3454 %	108.1654 %	103.3316 %
Concentration per Run 1	1.6672 ppm	98.4778 %	104.4666 %	91.9765 %	102.0898 %	108.0530 %	103.6964 %
Concentration per Run 2	1.6529 ppm	99.3288 %	105.3346 %	92.0848 %	102.3349 %	108.7957 %	103.3966 %
Concentration per Run 3	1.6454 ppm	99.8258 %	104.5888 %	91.6880 %	102.6114 %	107.6474 %	102.9017 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.2 %	0.3 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-18d2 WG1935632
Analysis started at: 6/18/2024 9:42:28 PM
Rack 3
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0239 ppm	47.4072 ppm	0.0832 ppm	0.0299 ppm	6.2310 ppm	0.0032 ppm	52.5796 ppm
Concentration per Run 1	0.0241 ppm	47.3015 ppm	0.0844 ppm	0.0316 ppm	6.2220 ppm	0.0032 ppm	52.5788 ppm
Concentration per Run 2	0.0237 ppm	47.5216 ppm	0.0823 ppm	0.0285 ppm	6.2346 ppm	0.0033 ppm	52.6576 ppm
Concentration per Run 3	0.0238 ppm	47.3985 ppm	0.0831 ppm	0.0296 ppm	6.2364 ppm	0.0032 ppm	52.5025 ppm
Concentration RSD	0.9 %	0.2 %	1.3 %	5.2 %	0.1 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0147 ppm	0.0549 ppm	0.1558 ppm	15.9212 ppm	85.2931 ppm	7.4073 ppm	0.1249 ppm
Concentration per Run 1	0.0149 ppm	0.0555 ppm	0.1571 ppm	15.9960 ppm	85.3867 ppm	7.4383 ppm	0.1262 ppm
Concentration per Run 2	0.0146 ppm	0.0552 ppm	0.1554 ppm	15.9330 ppm	85.3690 ppm	7.3769 ppm	0.1245 ppm
Concentration per Run 3	0.0145 ppm	0.0539 ppm	0.1547 ppm	15.8345 ppm	85.1238 ppm	7.4066 ppm	0.1240 ppm
Concentration RSD	1.4 %	1.5 %	0.8 %	0.5 %	0.2 %	0.4 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8409 ppm	0.8062 ppm	0.0871 ppm	1.7618 ppm	0.1238 ppm	5.0658 ppm	0.0332 ppm
Concentration per Run 1	3.8535 ppm	0.8061 ppm	0.0861 ppm	1.7508 ppm	0.1247 ppm	5.0666 ppm	0.0351 ppm
Concentration per Run 2	3.8405 ppm	0.8079 ppm	0.0879 ppm	1.7713 ppm	0.1238 ppm	5.0812 ppm	0.0307 ppm
Concentration per Run 3	3.8289 ppm	0.8047 ppm	0.0874 ppm	1.7634 ppm	0.1228 ppm	5.0497 ppm	0.0337 ppm
Concentration RSD	0.3 %	0.2 %	1.0 %	0.6 %	0.8 %	0.3 %	6.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0055 ppm	3.7715 ppm	0.2712 ppm	0.7372 ppm	0.9851 ppm	0.0009 ppm	0.3685 ppm
Concentration per Run 1	0.0062 ppm	3.8263 ppm	0.2695 ppm	0.7386 ppm	0.9914 ppm	0.0015 ppm	0.3704 ppm
Concentration per Run 2	0.0040 ppm	3.7694 ppm	0.2729 ppm	0.7365 ppm	0.9820 ppm	-0.0008 ppm	0.3677 ppm
Concentration per Run 3	0.0065 ppm	3.7186 ppm	0.2711 ppm	0.7364 ppm	0.9818 ppm	0.0021 ppm	0.3673 ppm
Concentration RSD	24.9 %	1.4 %	0.6 %	0.2 %	0.6 %	167.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.8413 ppm	100.8610 %	106.6913 %	97.7397 %	112.3014 %	119.8462 %	112.0727 %
Concentration per Run 1	6.8533 ppm	100.2548 %	106.4228 %	97.4952 %	111.8315 %	119.7024 %	111.6430 %
Concentration per Run 2	6.8518 ppm	101.1224 %	106.4304 %	97.7611 %	112.8675 %	119.7275 %	112.4668 %
Concentration per Run 3	6.8189 ppm	101.2056 %	107.2208 %	97.9627 %	112.2051 %	120.1087 %	112.1083 %
Concentration RSD	0.3 %	0.5 %	0.4 %	0.2 %	0.5 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-19d2 WG1935632
Analysis started at: 6/18/2024 9:46:30 PM
Rack 3
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	17.8638 ppm	0.0287 ppm	0.0079 ppm	0.5485 ppm	0.0015 ppm	24.7362 ppm
Concentration per Run 1	0.0008 ppm	17.9371 ppm	0.0286 ppm	0.0058 ppm	0.5479 ppm	0.0015 ppm	24.7912 ppm
Concentration per Run 2	0.0005 ppm	17.9017 ppm	0.0278 ppm	0.0082 ppm	0.5513 ppm	0.0015 ppm	24.7919 ppm
Concentration per Run 3	0.0011 ppm	17.7527 ppm	0.0298 ppm	0.0096 ppm	0.5462 ppm	0.0015 ppm	24.6256 ppm
Concentration RSD	36.4 %	0.5 %	3.4 %	24.4 %	0.5 %	1.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0361 ppm	0.0525 ppm	0.1919 ppm	29.1218 ppm	2.5088 ppm	0.0423 ppm
Concentration per Run 1	0.0013 ppm	0.0362 ppm	0.0532 ppm	0.1931 ppm	29.2165 ppm	2.5004 ppm	0.0435 ppm
Concentration per Run 2	0.0013 ppm	0.0358 ppm	0.0524 ppm	0.1919 ppm	29.1902 ppm	2.5092 ppm	0.0422 ppm
Concentration per Run 3	0.0013 ppm	0.0362 ppm	0.0519 ppm	0.1905 ppm	28.9586 ppm	2.5168 ppm	0.0413 ppm
Concentration RSD	2.4 %	0.6 %	1.2 %	0.7 %	0.5 %	0.3 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.3337 ppm	0.3243 ppm	0.0157 ppm	0.4333 ppm	0.1051 ppm	0.0836 ppm	0.0053 ppm
Concentration per Run 1	1.3402 ppm	0.3243 ppm	0.0150 ppm	0.4405 ppm	0.1063 ppm	0.0838 ppm	0.0039 ppm
Concentration per Run 2	1.3334 ppm	0.3242 ppm	0.0160 ppm	0.4276 ppm	0.1043 ppm	0.0835 ppm	0.0099 ppm
Concentration per Run 3	1.3273 ppm	0.3243 ppm	0.0161 ppm	0.4317 ppm	0.1048 ppm	0.0836 ppm	0.0022 ppm
Concentration RSD	0.5 %	0.0 %	3.9 %	1.5 %	1.0 %	0.2 %	76.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	2.6934 ppm	0.0073 ppm	0.3551 ppm	0.7527 ppm	-0.0006 ppm	0.1294 ppm
Concentration per Run 1	0.0049 ppm	2.7363 ppm	0.0076 ppm	0.3572 ppm	0.7581 ppm	0.0002 ppm	0.1302 ppm
Concentration per Run 2	0.0044 ppm	2.6599 ppm	0.0074 ppm	0.3559 ppm	0.7533 ppm	-0.0016 ppm	0.1293 ppm
Concentration per Run 3	0.0061 ppm	2.6840 ppm	0.0068 ppm	0.3522 ppm	0.7466 ppm	-0.0003 ppm	0.1286 ppm
Concentration RSD	16.5 %	1.4 %	5.9 %	0.7 %	0.8 %	156.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9981 ppm	98.7453 %	105.3680 %	98.9332 %	104.2774 %	110.8274 %	106.5610 %
Concentration per Run 1	1.0072 ppm	97.9230 %	105.7284 %	98.9131 %	103.9218 %	111.4887 %	106.8713 %
Concentration per Run 2	0.9944 ppm	99.0043 %	105.5372 %	98.6423 %	104.6464 %	111.1659 %	106.1395 %
Concentration per Run 3	0.9928 ppm	99.3086 %	104.8382 %	99.2442 %	104.2640 %	109.8276 %	106.6722 %
Concentration RSD	0.8 %	0.7 %	0.4 %	0.3 %	0.3 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-20d2 WG1935632
Analysis started at: 6/18/2024 9:50:31 PM
Rack 3
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	27.7512 ppm	0.0554 ppm	0.0106 ppm	0.7813 ppm	0.0023 ppm	22.1191 ppm
Concentration per Run 1	0.0009 ppm	27.7384 ppm	0.0531 ppm	0.0099 ppm	0.7852 ppm	0.0023 ppm	22.0890 ppm
Concentration per Run 2	0.0010 ppm	27.7611 ppm	0.0566 ppm	0.0112 ppm	0.7813 ppm	0.0024 ppm	22.2357 ppm
Concentration per Run 3	0.0013 ppm	27.7540 ppm	0.0564 ppm	0.0107 ppm	0.7774 ppm	0.0023 ppm	22.0328 ppm
Concentration RSD	20.0 %	0.0 %	3.5 %	6.2 %	0.5 %	1.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0058 ppm	0.0504 ppm	0.0633 ppm	0.4328 ppm	37.3764 ppm	6.1655 ppm	0.0931 ppm
Concentration per Run 1	0.0058 ppm	0.0515 ppm	0.0636 ppm	0.4388 ppm	37.5008 ppm	6.2360 ppm	0.0941 ppm
Concentration per Run 2	0.0058 ppm	0.0508 ppm	0.0632 ppm	0.4306 ppm	37.3776 ppm	6.1916 ppm	0.0927 ppm
Concentration per Run 3	0.0056 ppm	0.0491 ppm	0.0630 ppm	0.4290 ppm	37.2507 ppm	6.0688 ppm	0.0924 ppm
Concentration RSD	2.2 %	2.5 %	0.4 %	1.2 %	0.3 %	1.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1259 ppm	0.3430 ppm	0.0140 ppm	0.7294 ppm	0.1005 ppm	1.3914 ppm	0.0102 ppm
Concentration per Run 1	2.1647 ppm	0.3429 ppm	0.0137 ppm	0.7256 ppm	0.1015 ppm	1.3933 ppm	0.0091 ppm
Concentration per Run 2	2.1102 ppm	0.3433 ppm	0.0144 ppm	0.7285 ppm	0.0995 ppm	1.3935 ppm	0.0119 ppm
Concentration per Run 3	2.1028 ppm	0.3428 ppm	0.0138 ppm	0.7341 ppm	0.1004 ppm	1.3874 ppm	0.0097 ppm
Concentration RSD	1.6 %	0.1 %	2.7 %	0.6 %	1.0 %	0.2 %	14.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0110 ppm	2.6704 ppm	0.0266 ppm	0.4949 ppm	0.6124 ppm	-0.0001 ppm	0.1792 ppm
Concentration per Run 1	0.0142 ppm	2.7509 ppm	0.0277 ppm	0.4956 ppm	0.6250 ppm	0.0001 ppm	0.1820 ppm
Concentration per Run 2	0.0123 ppm	2.6890 ppm	0.0261 ppm	0.4940 ppm	0.6114 ppm	-0.0002 ppm	0.1787 ppm
Concentration per Run 3	0.0066 ppm	2.5712 ppm	0.0259 ppm	0.4951 ppm	0.6008 ppm	-0.0001 ppm	0.1768 ppm
Concentration RSD	35.7 %	3.4 %	3.7 %	0.2 %	2.0 %	258.8 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7576 ppm	99.3903 %	106.5977 %	99.4530 %	108.1485 %	116.2227 %	110.9047 %
Concentration per Run 1	2.8093 ppm	97.6221 %	107.3801 %	99.3082 %	106.3764 %	116.8911 %	110.8589 %
Concentration per Run 2	2.7450 ppm	99.8103 %	105.7821 %	99.2093 %	108.6486 %	115.5400 %	110.9646 %
Concentration per Run 3	2.7184 ppm	100.7383 %	106.6309 %	99.8415 %	109.4204 %	116.2370 %	110.8906 %
Concentration RSD	1.7 %	1.6 %	0.8 %	0.3 %	1.5 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-02d4 WG1935632
Analysis started at: 6/18/2024 9:57:21 PM
Rack 3
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0085 ppm	35.0154 ppm	0.2141 ppm	0.1229 ppm	2.2190 ppm	0.0012 ppm	32.5256 ppm
Concentration per Run 1	0.0090 ppm	34.9970 ppm	0.2139 ppm	0.1217 ppm	2.2153 ppm	0.0012 ppm	32.4971 ppm
Concentration per Run 2	0.0086 ppm	35.0842 ppm	0.2136 ppm	0.1228 ppm	2.2234 ppm	0.0012 ppm	32.5449 ppm
Concentration per Run 3	0.0081 ppm	34.9651 ppm	0.2149 ppm	0.1243 ppm	2.2184 ppm	0.0012 ppm	32.5348 ppm
Concentration RSD	5.3 %	0.2 %	0.3 %	1.1 %	0.2 %	3.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0085 ppm	0.0257 ppm	0.1137 ppm	1.2583 ppm	276.7231 ppm	3.2592 ppm	0.0385 ppm
Concentration per Run 1	0.0085 ppm	0.0253 ppm	0.1127 ppm	1.2606 ppm	276.4045 ppm	3.2861 ppm	0.0400 ppm
Concentration per Run 2	0.0084 ppm	0.0259 ppm	0.1135 ppm	1.2556 ppm	277.2626 ppm	3.2579 ppm	0.0388 ppm
Concentration per Run 3	0.0085 ppm	0.0260 ppm	0.1150 ppm	1.2585 ppm	276.5022 ppm	3.2335 ppm	0.0366 ppm
Concentration RSD	0.6 %	1.5 %	1.0 %	0.2 %	0.2 %	0.8 %	4.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8279 ppm	1.1842 ppm	0.1677 ppm	1.9303 ppm	0.0647 ppm	2.4350 ppm	0.1843 ppm
Concentration per Run 1	3.8016 ppm	1.1841 ppm	0.1638 ppm	1.9380 ppm	0.0649 ppm	2.4313 ppm	0.1814 ppm
Concentration per Run 2	3.8365 ppm	1.1856 ppm	0.1683 ppm	1.9167 ppm	0.0651 ppm	2.4285 ppm	0.1898 ppm
Concentration per Run 3	3.8456 ppm	1.1830 ppm	0.1710 ppm	1.9362 ppm	0.0643 ppm	2.4451 ppm	0.1817 ppm
Concentration RSD	0.6 %	0.1 %	2.2 %	0.6 %	0.7 %	0.4 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0292 ppm	3.5669 ppm	3.3899 ppm	0.4115 ppm	0.3723 ppm	0.0004 ppm	0.4537 ppm
Concentration per Run 1	0.0272 ppm	3.5718 ppm	3.3723 ppm	0.4106 ppm	0.3737 ppm	-0.0007 ppm	0.4501 ppm
Concentration per Run 2	0.0302 ppm	3.5685 ppm	3.3848 ppm	0.4130 ppm	0.3650 ppm	0.0007 ppm	0.4546 ppm
Concentration per Run 3	0.0303 ppm	3.5604 ppm	3.4125 ppm	0.4110 ppm	0.3782 ppm	0.0011 ppm	0.4565 ppm
Concentration RSD	6.0 %	0.2 %	0.6 %	0.3 %	1.8 %	254.7 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.8834 ppm	100.5397 %	104.6249 %	95.4543 %	100.0594 %	106.4127 %	101.4855 %
Concentration per Run 1	8.8254 ppm	100.7145 %	104.1965 %	95.1178 %	100.2899 %	106.1872 %	101.2398 %
Concentration per Run 2	8.9120 ppm	100.5411 %	104.6193 %	95.9870 %	100.0620 %	106.3106 %	101.7480 %
Concentration per Run 3	8.9127 ppm	100.3635 %	105.0588 %	95.2582 %	99.8264 %	106.7404 %	101.4687 %
Concentration RSD	0.6 %	0.2 %	0.4 %	0.5 %	0.2 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432952-10d4 WG1935632
Analysis started at: 6/18/2024 10:01:29 PM
Rack 3
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	17.1652 ppm	0.0603 ppm	0.0252 ppm	11.5105 ppm	0.0012 ppm	10.5779 ppm
Concentration per Run 1	0.0031 ppm	17.1187 ppm	0.0579 ppm	0.0239 ppm	11.4615 ppm	0.0012 ppm	10.5835 ppm
Concentration per Run 2	0.0036 ppm	17.1855 ppm	0.0621 ppm	0.0253 ppm	11.5702 ppm	0.0013 ppm	10.5622 ppm
Concentration per Run 3	0.0030 ppm	17.1915 ppm	0.0609 ppm	0.0265 ppm	11.4999 ppm	0.0012 ppm	10.5880 ppm
Concentration RSD	10.4 %	0.2 %	3.6 %	5.2 %	0.5 %	1.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0089 ppm	0.0551 ppm	0.0665 ppm	0.7113 ppm	109.9733 ppm	4.0707 ppm	0.0609 ppm
Concentration per Run 1	0.0089 ppm	0.0551 ppm	0.0669 ppm	0.7128 ppm	109.8044 ppm	4.0873 ppm	0.0610 ppm
Concentration per Run 2	0.0089 ppm	0.0550 ppm	0.0662 ppm	0.7106 ppm	110.2247 ppm	4.0672 ppm	0.0609 ppm
Concentration per Run 3	0.0089 ppm	0.0553 ppm	0.0665 ppm	0.7105 ppm	109.8907 ppm	4.0575 ppm	0.0609 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.2 %	0.2 %	0.4 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.3346 ppm	0.9544 ppm	0.0388 ppm	1.0287 ppm	0.1552 ppm	11.2678 ppm	0.3256 ppm
Concentration per Run 1	7.3394 ppm	0.9531 ppm	0.0384 ppm	1.0248 ppm	0.1563 ppm	11.2483 ppm	0.3245 ppm
Concentration per Run 2	7.3364 ppm	0.9558 ppm	0.0382 ppm	1.0258 ppm	0.1553 ppm	11.3024 ppm	0.3286 ppm
Concentration per Run 3	7.3279 ppm	0.9542 ppm	0.0398 ppm	1.0354 ppm	0.1539 ppm	11.2525 ppm	0.3236 ppm
Concentration RSD	0.1 %	0.1 %	2.2 %	0.6 %	0.8 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0057 ppm	3.2451 ppm	0.2374 ppm	0.2488 ppm	0.6754 ppm	0.0005 ppm	0.1232 ppm
Concentration per Run 1	0.0038 ppm	3.2171 ppm	0.2399 ppm	0.2485 ppm	0.6728 ppm	0.0009 ppm	0.1234 ppm
Concentration per Run 2	0.0080 ppm	3.2633 ppm	0.2374 ppm	0.2492 ppm	0.6730 ppm	-0.0004 ppm	0.1233 ppm
Concentration per Run 3	0.0054 ppm	3.2549 ppm	0.2349 ppm	0.2488 ppm	0.6805 ppm	0.0010 ppm	0.1230 ppm
Concentration RSD	37.5 %	0.8 %	1.1 %	0.1 %	0.6 %	155.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	34.3858 ppm	100.3488 %	104.9995 %	97.9723 %	101.7478 %	107.2078 %	103.1975 %
Concentration per Run 1	34.5885 ppm	99.8809 %	105.8905 %	97.9741 %	101.5131 %	108.1280 %	103.0595 %
Concentration per Run 2	34.4276 ppm	100.3283 %	104.4768 %	98.0142 %	101.8605 %	106.8604 %	103.3764 %
Concentration per Run 3	34.1413 ppm	100.8373 %	104.6312 %	97.9287 %	101.8699 %	106.6351 %	103.1565 %
Concentration RSD	0.7 %	0.5 %	0.7 %	0.0 %	0.2 %	0.8 %	0.2 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:05:30 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5166 ppm	0.5051 ppm	0.4845 ppm	0.5070 ppm	0.5339 ppm	0.4960 ppm	0.4816 ppm
Concentration per Run 1	0.5139 ppm	0.5107 ppm	0.4841 ppm	0.5062 ppm	0.5296 ppm	0.4945 ppm	0.4872 ppm
Concentration per Run 2	0.5172 ppm	0.5008 ppm	0.4809 ppm	0.5060 ppm	0.5372 ppm	0.4976 ppm	0.4788 ppm
Concentration per Run 3	0.5187 ppm	0.5038 ppm	0.4884 ppm	0.5088 ppm	0.5350 ppm	0.4958 ppm	0.4786 ppm
Recovery Percentage 1	103.319 %	101.018 %	96.895 %	101.398 %	106.788 %	99.193 %	96.310 %
Concentration RSD	0.5 %	1.0 %	0.8 %	0.3 %	0.7 %	0.3 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5175 ppm	0.5255 ppm	0.5132 ppm	0.5005 ppm	0.4892 ppm	5.6484 ppm	0.5227 ppm
Concentration per Run 1	0.5151 ppm	0.5244 ppm	0.5099 ppm	0.5006 ppm	0.4890 ppm	5.6483 ppm	0.5196 ppm
Concentration per Run 2	0.5167 ppm	0.5264 ppm	0.5140 ppm	0.4988 ppm	0.4873 ppm	5.6500 ppm	0.5256 ppm
Concentration per Run 3	0.5207 ppm	0.5257 ppm	0.5155 ppm	0.5019 ppm	0.4911 ppm	5.6468 ppm	0.5229 ppm
Recovery Percentage 1	103.503 %	105.100 %	102.635 %	100.093 %	97.831 %	112.968 %	104.537 %
Concentration RSD	0.6 %	0.2 %	0.6 %	0.3 %	0.4 %	0.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5085 ppm	0.4663 ppm	0.5082 ppm	11.2672 ppm	0.5291 ppm	0.5040 ppm	0.5070 ppm
Concentration per Run 1	0.5056 ppm	0.4672 ppm	0.4989 ppm	11.3490 ppm	0.5289 ppm	0.5026 ppm	0.5062 ppm
Concentration per Run 2	0.5112 ppm	0.4653 ppm	0.5066 ppm	11.2298 ppm	0.5297 ppm	0.5039 ppm	0.5093 ppm
Concentration per Run 3	0.5087 ppm	0.4663 ppm	0.5192 ppm	11.2227 ppm	0.5287 ppm	0.5055 ppm	0.5054 ppm
Recovery Percentage 1	101.698 %	93.252 %	101.644 %	112.672 %	105.820 %	100.801 %	101.392 %
Concentration RSD	0.6 %	0.2 %	2.0 %	0.6 %	0.1 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4997 ppm	5.3417 ppm	0.5209 ppm	0.5292 ppm	0.5193 ppm	0.4899 ppm	0.5127 ppm
Concentration per Run 1	0.5024 ppm	5.3085 ppm	0.5162 ppm	0.5281 ppm	0.5167 ppm	0.4873 ppm	0.5111 ppm
Concentration per Run 2	0.4995 ppm	5.3316 ppm	0.5210 ppm	0.5301 ppm	0.5208 ppm	0.4888 ppm	0.5122 ppm
Concentration per Run 3	0.4972 ppm	5.3850 ppm	0.5254 ppm	0.5294 ppm	0.5204 ppm	0.4936 ppm	0.5148 ppm
Recovery Percentage 1	99.949 %	101.747 %	104.172 %	105.838 %	103.857 %	97.981 %	102.539 %
Concentration RSD	0.5 %	0.7 %	0.9 %	0.2 %	0.4 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5306 ppm	97.7597 %	102.0966 %	99.3298 %	96.1124 %	100.7569 %	98.6363 %
Concentration per Run 1	0.5294 ppm	97.6214 %	102.0283 %	99.7187 %	96.0894 %	101.2406 %	98.8325 %
Concentration per Run 2	0.5294 ppm	98.0038 %	102.7362 %	99.0154 %	96.2837 %	101.0283 %	98.2928 %
Concentration per Run 3	0.5331 ppm	97.6539 %	101.5254 %	99.2552 %	95.9640 %	100.0016 %	98.7836 %
Recovery Percentage 1	106.125 %						
Concentration RSD	0.4 %	0.2 %	0.6 %	0.4 %	0.2 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:09:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0172 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 1	0.0001 ppm	-0.0295 ppm	-0.0012 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0004 ppm	-0.0109 ppm	0.0003 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	-0.0047 ppm
Concentration per Run 3	0.0002 ppm	-0.0112 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.251 %	-17.214 %	-8.415 %	0.056 %	-1.797 %	0.084 %	-2.005 %
Concentration RSD	67.3 %	61.7 %	313.9 %	3,852.4 %	38.6 %	859.7 %	127.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0049 ppm	0.0148 ppm	-0.0010 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0054 ppm	0.0305 ppm	-0.0019 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0050 ppm	-0.0054 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0042 ppm	0.0193 ppm	-0.0010 ppm
Recovery Percentage 1	-0.450 %	-1.577 %	1.857 %	1.538 %	9.707 %	0.592 %	-10.047 %
Concentration RSD	313.3 %	201.8 %	135.5 %	87.8 %	12.8 %	124.1 %	85.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0027 ppm	0.0004 ppm	-0.0010 ppm	0.0081 ppm	0.0005 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	-0.0018 ppm	0.0004 ppm	-0.0013 ppm	0.0138 ppm	0.0019 ppm	0.0004 ppm	-0.0028 ppm
Concentration per Run 2	-0.0022 ppm	0.0003 ppm	-0.0011 ppm	0.0091 ppm	-0.0002 ppm	0.0006 ppm	0.0037 ppm
Concentration per Run 3	-0.0042 ppm	0.0006 ppm	-0.0005 ppm	0.0013 ppm	-0.0001 ppm	0.0008 ppm	0.0006 ppm
Recovery Percentage 1	-2.747 %	4.217 %	-1.922 %	0.403 %	2.153 %	5.795 %	0.965 %
Concentration RSD	47.1 %	30.8 %	39.4 %	78.8 %	214.6 %	34.5 %	675.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0115 ppm	0.0014 ppm	0.0001 ppm	-0.0003 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0015 ppm	0.0135 ppm	0.0019 ppm	0.0000 ppm	-0.0004 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0026 ppm	0.0098 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0112 ppm	0.0014 ppm	0.0003 ppm	-0.0005 ppm	-0.0011 ppm	-0.0001 ppm
Recovery Percentage 1	-3.547 %	2.301 %	2.738 %	1.208 %	-2.684 %	-5.618 %	-1.277 %
Concentration RSD	595.2 %	15.9 %	45.1 %	132.9 %	123.9 %	24.0 %	47.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	91.2628 %	98.2165 %	94.4246 %	96.5500 %	101.5845 %	98.6783 %
Concentration per Run 1	0.0013 ppm	90.1401 %	98.8456 %	94.0262 %	96.0714 %	102.6958 %	98.6058 %
Concentration per Run 2	0.0010 ppm	91.3285 %	97.5848 %	94.3187 %	96.5805 %	100.5889 %	98.6612 %
Concentration per Run 3	0.0013 ppm	92.3199 %	98.2193 %	94.9287 %	96.9981 %	101.4687 %	98.7678 %
Recovery Percentage 1	24.149 %						
Concentration RSD	15.2 %	1.2 %	0.6 %	0.5 %	0.5 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432997-01d2 WG1935616
Analysis started at: 6/18/2024 10:27:05 PM
Rack 3
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	98.4639 ppm	0.0234 ppm	0.0066 ppm	0.4579 ppm	0.0039 ppm	9.1510 ppm
Concentration per Run 1	0.0007 ppm	97.9746 ppm	0.0255 ppm	0.0056 ppm	0.4545 ppm	0.0038 ppm	9.0964 ppm
Concentration per Run 2	0.0006 ppm	98.3212 ppm	0.0220 ppm	0.0072 ppm	0.4591 ppm	0.0039 ppm	9.1398 ppm
Concentration per Run 3	0.0005 ppm	99.0959 ppm	0.0227 ppm	0.0069 ppm	0.4599 ppm	0.0039 ppm	9.2168 ppm
Concentration RSD	18.4 %	0.6 %	7.8 %	12.5 %	0.6 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0452 ppm	0.1132 ppm	0.1549 ppm	112.9161 ppm	13.5415 ppm	0.2649 ppm
Concentration per Run 1	0.0039 ppm	0.0443 ppm	0.1092 ppm	0.1494 ppm	112.2415 ppm	13.5048 ppm	0.2683 ppm
Concentration per Run 2	0.0041 ppm	0.0451 ppm	0.1138 ppm	0.1555 ppm	112.8624 ppm	13.5085 ppm	0.2619 ppm
Concentration per Run 3	0.0042 ppm	0.0463 ppm	0.1168 ppm	0.1597 ppm	113.6444 ppm	13.6111 ppm	0.2646 ppm
Concentration RSD	4.2 %	2.2 %	3.3 %	3.3 %	0.6 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.1704 ppm	2.7709 ppm	0.0050 ppm	1.3654 ppm	0.0843 ppm	0.1478 ppm	0.0031 ppm
Concentration per Run 1	20.4260 ppm	2.7513 ppm	0.0046 ppm	1.3666 ppm	0.0820 ppm	0.1458 ppm	0.0011 ppm
Concentration per Run 2	21.1889 ppm	2.7725 ppm	0.0054 ppm	1.3548 ppm	0.0846 ppm	0.1486 ppm	0.0040 ppm
Concentration per Run 3	21.8964 ppm	2.7890 ppm	0.0049 ppm	1.3749 ppm	0.0861 ppm	0.1490 ppm	0.0042 ppm
Concentration RSD	3.5 %	0.7 %	8.5 %	0.7 %	2.5 %	1.2 %	57.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.4628 ppm	0.0062 ppm	0.0487 ppm	4.0350 ppm	0.0035 ppm	0.1927 ppm
Concentration per Run 1	0.0029 ppm	2.3792 ppm	0.0051 ppm	0.0485 ppm	3.8893 ppm	0.0032 ppm	0.1860 ppm
Concentration per Run 2	0.0014 ppm	2.4822 ppm	0.0063 ppm	0.0487 ppm	4.0471 ppm	0.0033 ppm	0.1932 ppm
Concentration per Run 3	0.0027 ppm	2.5270 ppm	0.0071 ppm	0.0490 ppm	4.1685 ppm	0.0041 ppm	0.1988 ppm
Concentration RSD	34.9 %	3.1 %	16.2 %	0.5 %	3.5 %	14.9 %	3.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6002 ppm	123.2612 %	112.4786 %	105.2842 %	122.6011 %	127.2708 %	123.4591 %
Concentration per Run 1	0.5802 ppm	127.3876 %	113.2866 %	106.7057 %	122.2424 %	127.9061 %	123.2229 %
Concentration per Run 2	0.6013 ppm	123.3144 %	113.0246 %	104.8228 %	122.6829 %	127.4772 %	123.1244 %
Concentration per Run 3	0.6191 ppm	119.0816 %	111.1246 %	104.3241 %	122.8780 %	126.4293 %	124.0301 %
Concentration RSD	3.3 %	3.4 %	1.0 %	1.2 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432997-02d2 WG1935616
Analysis started at: 6/18/2024 10:31:27 PM
Rack 3
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	35.3468 ppm	0.0783 ppm	0.0021 ppm	0.1782 ppm	0.0017 ppm	8.7309 ppm
Concentration per Run 1	-0.0003 ppm	35.2571 ppm	0.0778 ppm	0.0017 ppm	0.1775 ppm	0.0017 ppm	8.7254 ppm
Concentration per Run 2	0.0001 ppm	35.3933 ppm	0.0785 ppm	0.0030 ppm	0.1789 ppm	0.0017 ppm	8.7340 ppm
Concentration per Run 3	0.0002 ppm	35.3900 ppm	0.0786 ppm	0.0017 ppm	0.1781 ppm	0.0017 ppm	8.7334 ppm
Concentration RSD	797.7 %	0.2 %	0.6 %	34.4 %	0.4 %	2.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0391 ppm	0.0513 ppm	0.1051 ppm	121.3396 ppm	7.4003 ppm	0.0592 ppm
Concentration per Run 1	0.0005 ppm	0.0391 ppm	0.0513 ppm	0.1048 ppm	120.7316 ppm	7.4227 ppm	0.0623 ppm
Concentration per Run 2	0.0003 ppm	0.0389 ppm	0.0511 ppm	0.1048 ppm	121.7633 ppm	7.3576 ppm	0.0560 ppm
Concentration per Run 3	0.0003 ppm	0.0392 ppm	0.0514 ppm	0.1056 ppm	121.5240 ppm	7.4204 ppm	0.0594 ppm
Concentration RSD	26.8 %	0.4 %	0.3 %	0.4 %	0.4 %	0.5 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.3688 ppm	1.0040 ppm	0.0003 ppm	0.4835 ppm	0.0698 ppm	0.0440 ppm	0.0032 ppm
Concentration per Run 1	9.3805 ppm	1.0005 ppm	0.0002 ppm	0.4855 ppm	0.0706 ppm	0.0442 ppm	0.0042 ppm
Concentration per Run 2	9.3482 ppm	1.0062 ppm	0.0008 ppm	0.4845 ppm	0.0695 ppm	0.0447 ppm	-0.0008 ppm
Concentration per Run 3	9.3777 ppm	1.0053 ppm	-0.0002 ppm	0.4805 ppm	0.0693 ppm	0.0431 ppm	0.0062 ppm
Concentration RSD	0.2 %	0.3 %	166.7 %	0.5 %	1.0 %	1.9 %	111.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	3.1123 ppm	0.0017 ppm	0.0230 ppm	1.9193 ppm	0.0001 ppm	0.1332 ppm
Concentration per Run 1	-0.0019 ppm	3.1127 ppm	0.0018 ppm	0.0229 ppm	1.9104 ppm	0.0000 ppm	0.1336 ppm
Concentration per Run 2	0.0018 ppm	3.1085 ppm	0.0013 ppm	0.0229 ppm	1.9223 ppm	0.0002 ppm	0.1327 ppm
Concentration per Run 3	-0.0007 ppm	3.1155 ppm	0.0020 ppm	0.0230 ppm	1.9251 ppm	0.0002 ppm	0.1332 ppm
Concentration RSD	684.7 %	0.1 %	20.2 %	0.3 %	0.4 %	104.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1530 ppm	101.1585 %	105.9099 %	98.5346 %	114.0468 %	120.5415 %	116.1726 %
Concentration per Run 1	0.1541 ppm	100.3569 %	106.1015 %	98.5331 %	113.2106 %	120.9777 %	116.0017 %
Concentration per Run 2	0.1519 ppm	101.9269 %	105.4091 %	98.5008 %	114.9810 %	119.9870 %	116.3153 %
Concentration per Run 3	0.1528 ppm	101.1917 %	106.2191 %	98.5699 %	113.9489 %	120.6596 %	116.2007 %
Concentration RSD	0.7 %	0.8 %	0.4 %	0.0 %	0.8 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432997-04d2 WG1935616
Analysis started at: 6/18/2024 10:35:28 PM
Rack 3
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	125.5040 ppm	0.0213 ppm	0.0066 ppm	0.4584 ppm	0.0064 ppm	7.3024 ppm
Concentration per Run 1	0.0006 ppm	125.5134 ppm	0.0219 ppm	0.0064 ppm	0.4594 ppm	0.0064 ppm	7.3165 ppm
Concentration per Run 2	0.0008 ppm	125.8619 ppm	0.0201 ppm	0.0076 ppm	0.4568 ppm	0.0064 ppm	7.3062 ppm
Concentration per Run 3	0.0010 ppm	125.1367 ppm	0.0220 ppm	0.0058 ppm	0.4592 ppm	0.0064 ppm	7.2846 ppm
Concentration RSD	23.4 %	0.3 %	4.9 %	14.2 %	0.3 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0034 ppm	0.0365 ppm	0.1522 ppm	0.1497 ppm	97.4704 ppm	5.4454 ppm	0.2421 ppm
Concentration per Run 1	0.0036 ppm	0.0361 ppm	0.1522 ppm	0.1501 ppm	97.4590 ppm	5.4523 ppm	0.2438 ppm
Concentration per Run 2	0.0033 ppm	0.0371 ppm	0.1525 ppm	0.1500 ppm	97.7496 ppm	5.4594 ppm	0.2420 ppm
Concentration per Run 3	0.0033 ppm	0.0362 ppm	0.1518 ppm	0.1491 ppm	97.2024 ppm	5.4243 ppm	0.2406 ppm
Concentration RSD	4.2 %	1.4 %	0.2 %	0.4 %	0.3 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5777 ppm	0.8285 ppm	0.0051 ppm	0.7318 ppm	0.0927 ppm	0.1546 ppm	0.0023 ppm
Concentration per Run 1	21.5983 ppm	0.8293 ppm	0.0053 ppm	0.7334 ppm	0.0936 ppm	0.1527 ppm	0.0046 ppm
Concentration per Run 2	21.5761 ppm	0.8292 ppm	0.0047 ppm	0.7314 ppm	0.0928 ppm	0.1539 ppm	0.0015 ppm
Concentration per Run 3	21.5587 ppm	0.8271 ppm	0.0052 ppm	0.7307 ppm	0.0918 ppm	0.1571 ppm	0.0008 ppm
Concentration RSD	0.1 %	0.1 %	5.9 %	0.2 %	1.0 %	1.5 %	86.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0064 ppm	3.6649 ppm	0.0066 ppm	0.0674 ppm	4.1770 ppm	0.0028 ppm	0.2368 ppm
Concentration per Run 1	0.0063 ppm	3.6702 ppm	0.0056 ppm	0.0675 ppm	4.1761 ppm	0.0022 ppm	0.2365 ppm
Concentration per Run 2	0.0071 ppm	3.6543 ppm	0.0072 ppm	0.0675 ppm	4.1757 ppm	0.0013 ppm	0.2373 ppm
Concentration per Run 3	0.0058 ppm	3.6702 ppm	0.0068 ppm	0.0671 ppm	4.1791 ppm	0.0050 ppm	0.2365 ppm
Concentration RSD	10.1 %	0.3 %	13.2 %	0.4 %	0.0 %	67.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5436 ppm	99.1798 %	106.6859 %	94.3899 %	122.2329 %	133.3574 %	124.9952 %
Concentration per Run 1	0.5459 ppm	98.9597 %	106.8068 %	94.8641 %	122.5800 %	133.7490 %	125.4299 %
Concentration per Run 2	0.5453 ppm	98.8245 %	106.4171 %	94.2258 %	121.4864 %	132.9267 %	124.9026 %
Concentration per Run 3	0.5395 ppm	99.7550 %	106.8338 %	94.0799 %	122.6323 %	133.3967 %	124.6530 %
Concentration RSD	0.6 %	0.5 %	0.2 %	0.4 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2432997-05d2 WG1935616
Analysis started at: 6/18/2024 10:39:29 PM
Rack 3
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	121.7171 ppm	0.0207 ppm	0.0050 ppm	0.4396 ppm	0.0063 ppm	7.1960 ppm
Concentration per Run 1	0.0009 ppm	121.7843 ppm	0.0207 ppm	0.0049 ppm	0.4387 ppm	0.0063 ppm	7.2037 ppm
Concentration per Run 2	0.0011 ppm	121.5774 ppm	0.0206 ppm	0.0061 ppm	0.4405 ppm	0.0064 ppm	7.1971 ppm
Concentration per Run 3	0.0010 ppm	121.7898 ppm	0.0207 ppm	0.0040 ppm	0.4395 ppm	0.0063 ppm	7.1871 ppm
Concentration RSD	8.4 %	0.1 %	0.3 %	21.4 %	0.2 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0034 ppm	0.0377 ppm	0.1605 ppm	0.1677 ppm	96.1708 ppm	5.9352 ppm	0.2498 ppm
Concentration per Run 1	0.0034 ppm	0.0383 ppm	0.1604 ppm	0.1671 ppm	95.9790 ppm	5.9343 ppm	0.2517 ppm
Concentration per Run 2	0.0035 ppm	0.0375 ppm	0.1608 ppm	0.1678 ppm	96.4574 ppm	5.9672 ppm	0.2505 ppm
Concentration per Run 3	0.0034 ppm	0.0373 ppm	0.1603 ppm	0.1683 ppm	96.0760 ppm	5.9040 ppm	0.2473 ppm
Concentration RSD	0.6 %	1.4 %	0.2 %	0.4 %	0.3 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.6333 ppm	0.8432 ppm	0.0056 ppm	0.7481 ppm	0.0917 ppm	0.2759 ppm	-0.0012 ppm
Concentration per Run 1	22.6381 ppm	0.8431 ppm	0.0053 ppm	0.7444 ppm	0.0923 ppm	0.2751 ppm	-0.0025 ppm
Concentration per Run 2	22.6198 ppm	0.8434 ppm	0.0053 ppm	0.7521 ppm	0.0920 ppm	0.2764 ppm	-0.0018 ppm
Concentration per Run 3	22.6419 ppm	0.8429 ppm	0.0061 ppm	0.7477 ppm	0.0908 ppm	0.2761 ppm	0.0007 ppm
Concentration RSD	0.1 %	0.0 %	7.7 %	0.5 %	0.9 %	0.2 %	141.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0080 ppm	4.8271 ppm	0.0093 ppm	0.0641 ppm	4.3665 ppm	0.0030 ppm	0.2514 ppm
Concentration per Run 1	0.0064 ppm	4.8390 ppm	0.0091 ppm	0.0640 ppm	4.3634 ppm	0.0019 ppm	0.2506 ppm
Concentration per Run 2	0.0105 ppm	4.8068 ppm	0.0107 ppm	0.0643 ppm	4.3574 ppm	0.0035 ppm	0.2517 ppm
Concentration per Run 3	0.0072 ppm	4.8355 ppm	0.0080 ppm	0.0641 ppm	4.3785 ppm	0.0037 ppm	0.2519 ppm
Concentration RSD	27.0 %	0.4 %	14.3 %	0.3 %	0.2 %	32.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5500 ppm	99.8690 %	105.7660 %	94.0216 %	122.7761 %	131.4160 %	123.8574 %
Concentration per Run 1	0.5520 ppm	99.5882 %	105.1363 %	93.8065 %	122.6507 %	130.9485 %	123.3930 %
Concentration per Run 2	0.5478 ppm	100.2607 %	105.8426 %	94.3124 %	123.1322 %	131.3735 %	124.3336 %
Concentration per Run 3	0.5502 ppm	99.7582 %	106.3190 %	93.9459 %	122.5453 %	131.9262 %	123.8456 %
Concentration RSD	0.4 %	0.4 %	0.6 %	0.3 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433011-01d2 WG1935616
Analysis started at: 6/18/2024 10:43:32 PM
Rack 3
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	29.8596 ppm	0.0068 ppm	0.0038 ppm	0.2299 ppm	0.0014 ppm	10.8175 ppm
Concentration per Run 1	0.0017 ppm	29.8728 ppm	0.0053 ppm	0.0035 ppm	0.2294 ppm	0.0014 ppm	10.8512 ppm
Concentration per Run 2	0.0012 ppm	29.8765 ppm	0.0081 ppm	0.0035 ppm	0.2291 ppm	0.0014 ppm	10.8105 ppm
Concentration per Run 3	0.0015 ppm	29.8296 ppm	0.0069 ppm	0.0043 ppm	0.2312 ppm	0.0014 ppm	10.7907 ppm
Concentration RSD	17.1 %	0.1 %	20.6 %	11.9 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0028 ppm	0.0232 ppm	0.2828 ppm	0.7312 ppm	54.5468 ppm	6.9877 ppm	0.0649 ppm
Concentration per Run 1	0.0028 ppm	0.0232 ppm	0.2827 ppm	0.7334 ppm	54.6399 ppm	7.0220 ppm	0.0665 ppm
Concentration per Run 2	0.0028 ppm	0.0236 ppm	0.2826 ppm	0.7318 ppm	54.4535 ppm	6.9724 ppm	0.0639 ppm
Concentration per Run 3	0.0028 ppm	0.0226 ppm	0.2830 ppm	0.7284 ppm	54.5469 ppm	6.9687 ppm	0.0642 ppm
Concentration RSD	0.9 %	2.2 %	0.1 %	0.4 %	0.2 %	0.4 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.2594 ppm	0.6535 ppm	0.0004 ppm	0.6415 ppm	0.0880 ppm	0.1908 ppm	0.0011 ppm
Concentration per Run 1	12.3268 ppm	0.6536 ppm	0.0006 ppm	0.6372 ppm	0.0883 ppm	0.1903 ppm	0.0003 ppm
Concentration per Run 2	12.2128 ppm	0.6530 ppm	0.0005 ppm	0.6486 ppm	0.0878 ppm	0.1910 ppm	0.0003 ppm
Concentration per Run 3	12.2387 ppm	0.6540 ppm	0.0003 ppm	0.6387 ppm	0.0879 ppm	0.1909 ppm	0.0027 ppm
Concentration RSD	0.5 %	0.1 %	38.0 %	1.0 %	0.3 %	0.2 %	130.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	3.4980 ppm	0.0129 ppm	0.0975 ppm	2.8520 ppm	0.0005 ppm	0.1070 ppm
Concentration per Run 1	-0.0006 ppm	3.4961 ppm	0.0144 ppm	0.0974 ppm	2.8621 ppm	0.0001 ppm	0.1073 ppm
Concentration per Run 2	-0.0025 ppm	3.5093 ppm	0.0114 ppm	0.0975 ppm	2.8460 ppm	0.0015 ppm	0.1071 ppm
Concentration per Run 3	-0.0004 ppm	3.4885 ppm	0.0129 ppm	0.0977 ppm	2.8478 ppm	-0.0002 ppm	0.1066 ppm
Concentration RSD	102.7 %	0.3 %	11.4 %	0.2 %	0.3 %	194.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6415 ppm	97.8979 %	103.1849 %	95.8120 %	102.2027 %	107.6880 %	103.5374 %
Concentration per Run 1	0.6429 ppm	97.0328 %	103.1864 %	96.4195 %	101.7096 %	107.6656 %	104.2233 %
Concentration per Run 2	0.6407 ppm	98.0434 %	103.1232 %	95.3943 %	102.3463 %	107.6402 %	102.9964 %
Concentration per Run 3	0.6410 ppm	98.6175 %	103.2451 %	95.6221 %	102.5521 %	107.7581 %	103.3925 %
Concentration RSD	0.2 %	0.8 %	0.1 %	0.6 %	0.4 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433011-02d2 WG1935616
Analysis started at: 6/18/2024 10:47:33 PM
Rack 3
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0139 ppm	52.7750 ppm	0.0167 ppm	0.0057 ppm	0.4923 ppm	0.0019 ppm	7.3789 ppm
Concentration per Run 1	0.0140 ppm	52.8586 ppm	0.0171 ppm	0.0061 ppm	0.4955 ppm	0.0019 ppm	7.3577 ppm
Concentration per Run 2	0.0139 ppm	52.7643 ppm	0.0175 ppm	0.0053 ppm	0.4916 ppm	0.0020 ppm	7.3947 ppm
Concentration per Run 3	0.0138 ppm	52.7020 ppm	0.0154 ppm	0.0057 ppm	0.4898 ppm	0.0020 ppm	7.3842 ppm
Concentration RSD	0.8 %	0.1 %	6.7 %	6.5 %	0.6 %	2.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0145 ppm	0.0315 ppm	2.1132 ppm	4.1186 ppm	86.7530 ppm	14.3565 ppm	0.1135 ppm
Concentration per Run 1	0.0145 ppm	0.0317 ppm	2.1164 ppm	4.1266 ppm	87.0366 ppm	14.4863 ppm	0.1145 ppm
Concentration per Run 2	0.0144 ppm	0.0308 ppm	2.1122 ppm	4.1182 ppm	86.6481 ppm	14.3258 ppm	0.1124 ppm
Concentration per Run 3	0.0145 ppm	0.0320 ppm	2.1109 ppm	4.1108 ppm	86.5742 ppm	14.2573 ppm	0.1135 ppm
Concentration RSD	0.6 %	1.9 %	0.1 %	0.2 %	0.3 %	0.8 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.7185 ppm	1.1393 ppm	0.0021 ppm	0.6349 ppm	0.2090 ppm	0.6786 ppm	0.0013 ppm
Concentration per Run 1	22.8280 ppm	1.1420 ppm	0.0020 ppm	0.6289 ppm	0.2085 ppm	0.6825 ppm	0.0011 ppm
Concentration per Run 2	22.6738 ppm	1.1380 ppm	0.0024 ppm	0.6387 ppm	0.2096 ppm	0.6777 ppm	0.0011 ppm
Concentration per Run 3	22.6536 ppm	1.1380 ppm	0.0021 ppm	0.6372 ppm	0.2090 ppm	0.6755 ppm	0.0018 ppm
Concentration RSD	0.4 %	0.2 %	9.1 %	0.8 %	0.3 %	0.5 %	31.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	4.3452 ppm	0.0953 ppm	0.0522 ppm	4.6476 ppm	0.0001 ppm	0.1568 ppm
Concentration per Run 1	0.0004 ppm	4.3728 ppm	0.0943 ppm	0.0523 ppm	4.6695 ppm	-0.0009 ppm	0.1568 ppm
Concentration per Run 2	0.0018 ppm	4.3552 ppm	0.0970 ppm	0.0523 ppm	4.6366 ppm	0.0000 ppm	0.1573 ppm
Concentration per Run 3	0.0034 ppm	4.3077 ppm	0.0945 ppm	0.0520 ppm	4.6368 ppm	0.0013 ppm	0.1563 ppm
Concentration RSD	79.7 %	0.8 %	1.5 %	0.3 %	0.4 %	841.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7827 ppm	99.5039 %	105.4406 %	95.1331 %	104.5961 %	111.2201 %	106.2953 %
Concentration per Run 1	2.7838 ppm	98.5457 %	105.3158 %	94.9213 %	104.0844 %	110.9738 %	106.1749 %
Concentration per Run 2	2.7915 ppm	99.8147 %	105.4834 %	94.8682 %	104.7869 %	111.3291 %	105.9741 %
Concentration per Run 3	2.7728 ppm	100.1512 %	105.5227 %	95.6098 %	104.9171 %	111.3574 %	106.7369 %
Concentration RSD	0.3 %	0.9 %	0.1 %	0.4 %	0.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: L2433011-03d2 WG1935616
Analysis started at: 6/18/2024 10:51:34 PM
Rack 3
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	26.6525 ppm	0.0060 ppm	0.0029 ppm	0.1895 ppm	0.0019 ppm	6.2970 ppm
Concentration per Run 1	0.0016 ppm	26.6555 ppm	0.0063 ppm	0.0026 ppm	0.1892 ppm	0.0019 ppm	6.2955 ppm
Concentration per Run 2	0.0010 ppm	26.6825 ppm	0.0082 ppm	0.0038 ppm	0.1901 ppm	0.0019 ppm	6.2999 ppm
Concentration per Run 3	0.0011 ppm	26.6197 ppm	0.0036 ppm	0.0024 ppm	0.1893 ppm	0.0018 ppm	6.2958 ppm
Concentration RSD	27.0 %	0.1 %	38.4 %	26.5 %	0.3 %	2.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0216 ppm	0.2556 ppm	0.5477 ppm	52.0245 ppm	6.7142 ppm	0.0634 ppm
Concentration per Run 1	0.0021 ppm	0.0218 ppm	0.2565 ppm	0.5493 ppm	52.0683 ppm	6.7397 ppm	0.0632 ppm
Concentration per Run 2	0.0021 ppm	0.0217 ppm	0.2558 ppm	0.5487 ppm	52.1121 ppm	6.7514 ppm	0.0646 ppm
Concentration per Run 3	0.0022 ppm	0.0212 ppm	0.2545 ppm	0.5451 ppm	51.8932 ppm	6.6515 ppm	0.0623 ppm
Concentration RSD	1.6 %	1.4 %	0.4 %	0.4 %	0.2 %	0.8 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.1941 ppm	0.8495 ppm	-0.0008 ppm	0.5112 ppm	0.0822 ppm	0.1454 ppm	-0.0024 ppm
Concentration per Run 1	12.2427 ppm	0.8500 ppm	-0.0007 ppm	0.5078 ppm	0.0819 ppm	0.1463 ppm	-0.0032 ppm
Concentration per Run 2	12.2265 ppm	0.8499 ppm	-0.0008 ppm	0.5080 ppm	0.0826 ppm	0.1458 ppm	-0.0019 ppm
Concentration per Run 3	12.1132 ppm	0.8486 ppm	-0.0010 ppm	0.5178 ppm	0.0821 ppm	0.1441 ppm	-0.0023 ppm
Concentration RSD	0.6 %	0.1 %	14.6 %	1.1 %	0.4 %	0.8 %	27.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.6972 ppm	0.0096 ppm	0.0268 ppm	2.2959 ppm	0.0014 ppm	0.0828 ppm
Concentration per Run 1	-0.0034 ppm	3.7256 ppm	0.0094 ppm	0.0268 ppm	2.3034 ppm	0.0004 ppm	0.0832 ppm
Concentration per Run 2	0.0014 ppm	3.6929 ppm	0.0100 ppm	0.0268 ppm	2.2973 ppm	0.0010 ppm	0.0829 ppm
Concentration per Run 3	0.0022 ppm	3.6730 ppm	0.0095 ppm	0.0268 ppm	2.2870 ppm	0.0028 ppm	0.0824 ppm
Concentration RSD	6,330.4 %	0.7 %	3.3 %	0.1 %	0.4 %	92.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5706 ppm	97.8480 %	103.5589 %	96.7648 %	101.6236 %	107.7080 %	103.9503 %
Concentration per Run 1	0.5697 ppm	97.4245 %	102.9028 %	96.7095 %	101.3553 %	106.9562 %	104.2163 %
Concentration per Run 2	0.5741 ppm	97.7726 %	103.9188 %	96.9688 %	101.7198 %	108.0270 %	104.1667 %
Concentration per Run 3	0.5678 ppm	98.3470 %	103.8550 %	96.6161 %	101.7957 %	108.1409 %	103.4679 %
Concentration RSD	0.6 %	0.5 %	0.5 %	0.2 %	0.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCV
Analysis started at: 6/18/2024 10:55:36 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5128 ppm	0.5060 ppm	0.4794 ppm	0.5036 ppm	0.5346 ppm	0.4943 ppm	0.4784 ppm
Concentration per Run 1	0.5105 ppm	0.5156 ppm	0.4783 ppm	0.5060 ppm	0.5347 ppm	0.4939 ppm	0.4781 ppm
Concentration per Run 2	0.5131 ppm	0.5023 ppm	0.4757 ppm	0.5009 ppm	0.5349 ppm	0.4952 ppm	0.4775 ppm
Concentration per Run 3	0.5149 ppm	0.5001 ppm	0.4841 ppm	0.5038 ppm	0.5343 ppm	0.4938 ppm	0.4797 ppm
Recovery Percentage 1	102.566 %	101.198 %	95.872 %	100.714 %	106.925 %	98.859 %	95.684 %
Concentration RSD	0.4 %	1.7 %	0.9 %	0.5 %	0.1 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5145 ppm	0.5207 ppm	0.5124 ppm	0.4981 ppm	0.4800 ppm	5.6102 ppm	0.5161 ppm
Concentration per Run 1	0.5144 ppm	0.5212 ppm	0.5129 ppm	0.4984 ppm	0.4774 ppm	5.6521 ppm	0.5234 ppm
Concentration per Run 2	0.5139 ppm	0.5190 ppm	0.5107 ppm	0.4975 ppm	0.4782 ppm	5.6404 ppm	0.5230 ppm
Concentration per Run 3	0.5153 ppm	0.5220 ppm	0.5135 ppm	0.4984 ppm	0.4845 ppm	5.5381 ppm	0.5020 ppm
Recovery Percentage 1	102.909 %	104.146 %	102.479 %	99.621 %	96.009 %	112.204 %	103.228 %
Concentration RSD	0.1 %	0.3 %	0.3 %	0.1 %	0.8 %	1.1 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5040 ppm	0.4646 ppm	0.5053 ppm	11.2994 ppm	0.5258 ppm	0.5032 ppm	0.4977 ppm
Concentration per Run 1	0.5058 ppm	0.4649 ppm	0.4990 ppm	11.3169 ppm	0.5279 ppm	0.5006 ppm	0.4954 ppm
Concentration per Run 2	0.5030 ppm	0.4638 ppm	0.5044 ppm	11.2706 ppm	0.5237 ppm	0.5029 ppm	0.4949 ppm
Concentration per Run 3	0.5033 ppm	0.4651 ppm	0.5126 ppm	11.3106 ppm	0.5257 ppm	0.5062 ppm	0.5027 ppm
Recovery Percentage 1	100.807 %	92.917 %	101.069 %	112.994 %	105.159 %	100.649 %	99.531 %
Concentration RSD	0.3 %	0.2 %	1.4 %	0.2 %	0.4 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4975 ppm	5.3142 ppm	0.5370 ppm	0.5254 ppm	0.5162 ppm	0.4901 ppm	0.5100 ppm
Concentration per Run 1	0.4958 ppm	5.3017 ppm	0.5406 ppm	0.5240 ppm	0.5156 ppm	0.4893 ppm	0.5091 ppm
Concentration per Run 2	0.4945 ppm	5.3048 ppm	0.5356 ppm	0.5265 ppm	0.5154 ppm	0.4874 ppm	0.5102 ppm
Concentration per Run 3	0.5021 ppm	5.3362 ppm	0.5347 ppm	0.5257 ppm	0.5176 ppm	0.4934 ppm	0.5107 ppm
Recovery Percentage 1	99.500 %	101.223 %	107.395 %	105.080 %	103.239 %	98.012 %	101.998 %
Concentration RSD	0.8 %	0.4 %	0.6 %	0.2 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5274 ppm	98.0624 %	101.6060 %	98.8027 %	96.3847 %	100.0349 %	97.7908 %
Concentration per Run 1	0.5292 ppm	97.7520 %	102.1388 %	98.7258 %	96.3622 %	100.7143 %	97.7475 %
Concentration per Run 2	0.5272 ppm	98.5102 %	101.1833 %	98.7070 %	96.7845 %	99.3733 %	97.4997 %
Concentration per Run 3	0.5257 ppm	97.9250 %	101.4960 %	98.9753 %	96.0074 %	100.0169 %	98.1251 %
Recovery Percentage 1	105.476 %						
Concentration RSD	0.3 %	0.4 %	0.5 %	0.2 %	0.4 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/18/2024 11:05:38 PM

LabBook: WG1935552_06182024T8.imexp

Sample: CCB
Analysis started at: 6/18/2024 10:59:35 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0162 ppm	-0.0006 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	-0.0062 ppm
Concentration per Run 1	0.0008 ppm	-0.0237 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	-0.0058 ppm
Concentration per Run 2	0.0002 ppm	-0.0153 ppm	-0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0073 ppm
Concentration per Run 3	0.0005 ppm	-0.0097 ppm	-0.0016 ppm	-0.0018 ppm	-0.0001 ppm	0.0001 ppm	-0.0056 ppm
Recovery Percentage 1	7.165 %	-16.244 %	-20.936 %	-2.100 %	-1.998 %	1.116 %	-6.230 %
Concentration RSD	63.2 %	43.6 %	139.2 %	169.5 %	75.1 %	58.5 %	14.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0031 ppm	0.0272 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	-0.0003 ppm	0.0042 ppm	0.0483 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm	0.0309 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0022 ppm	0.0023 ppm	-0.0022 ppm
Recovery Percentage 1	-0.703 %	-2.060 %	-3.134 %	-0.566 %	6.197 %	1.086 %	-7.394 %
Concentration RSD	105.4 %	36.3 %	76.6 %	461.0 %	32.6 %	85.6 %	167.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0000 ppm	-0.0012 ppm	0.0074 ppm	0.0006 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 1	-0.0032 ppm	0.0000 ppm	-0.0013 ppm	0.0037 ppm	0.0006 ppm	0.0007 ppm	-0.0012 ppm
Concentration per Run 2	-0.0009 ppm	-0.0001 ppm	-0.0012 ppm	0.0059 ppm	0.0006 ppm	-0.0006 ppm	-0.0011 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0010 ppm	0.0125 ppm	0.0007 ppm	-0.0006 ppm	-0.0006 ppm
Recovery Percentage 1	-1.407 %	-0.228 %	-2.369 %	0.370 %	2.506 %	-1.480 %	-1.947 %
Concentration RSD	111.5 %	183.5 %	12.4 %	62.0 %	5.3 %	523.4 %	32.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0045 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0019 ppm	-0.0002 ppm
Concentration per Run 1	0.0009 ppm	0.0033 ppm	0.0011 ppm	0.0001 ppm	-0.0007 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0017 ppm	0.0076 ppm	-0.0013 ppm	0.0005 ppm	-0.0006 ppm	-0.0036 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	0.0026 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm	-0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	-9.537 %	0.899 %	-0.057 %	2.151 %	-6.392 %	-9.394 %	-1.719 %
Concentration RSD	165.3 %	60.4 %	4,289.3 %	106.5 %	13.2 %	77.4 %	52.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	90.3324 %	96.5492 %	93.4179 %	96.3513 %	99.9648 %	97.8013 %
Concentration per Run 1	0.0005 ppm	89.3608 %	96.0941 %	92.7061 %	95.9733 %	100.0015 %	97.5254 %
Concentration per Run 2	0.0005 ppm	89.9924 %	95.9914 %	93.8870 %	95.9289 %	99.2988 %	98.1595 %
Concentration per Run 3	0.0005 ppm	91.6440 %	97.5621 %	93.6604 %	97.1517 %	100.5940 %	97.7188 %
Recovery Percentage 1	9.863 %						
Concentration RSD	7.8 %	1.3 %	0.9 %	0.7 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: Blank DHL Trace8
Analysis started at: 6/19/2024 6:11:57 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	-0.1 %	-1.1 %	0.2 %	0.2 %	-0.5 %	-0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	0.1 %	-0.4 %	0.2 %	-0.2 %	0.6 %	-0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.2 %	0.3 %	0.4 %	0.8 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.2 %	0.3 %	0.2 %	1.7 %	-0.2 %	-0.8 %	-0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	3.8 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: ICAL
Analysis started at: 6/19/2024 6:16:15 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0089 ppm	24.9367 ppm	1.0052 ppm	1.0099 ppm	1.0003 ppm	0.9989 ppm	9.9943 ppm
Concentration per Run 2	0.9975 ppm	25.0652 ppm	1.0036 ppm	0.9950 ppm	1.0027 ppm	0.9984 ppm	10.0050 ppm
Concentration per Run 3	0.9936 ppm	24.9981 ppm	0.9912 ppm	0.9951 ppm	0.9970 ppm	1.0027 ppm	10.0007 ppm
Concentration RSD	0.8 %	0.3 %	0.8 %	0.9 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0095 ppm	1.0095 ppm	1.0083 ppm	1.0076 ppm	24.9699 ppm	34.9366 ppm	1.0083 ppm
Concentration per Run 2	0.9965 ppm	0.9969 ppm	1.0005 ppm	1.0007 ppm	25.0152 ppm	35.1077 ppm	1.0048 ppm
Concentration per Run 3	0.9940 ppm	0.9936 ppm	0.9911 ppm	0.9918 ppm	25.0149 ppm	34.9557 ppm	0.9869 ppm
Concentration RSD	0.8 %	0.8 %	0.9 %	0.8 %	0.1 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0906 ppm	0.9991 ppm	0.9977 ppm	25.0874 ppm	1.0062 ppm	1.0023 ppm	1.0114 ppm
Concentration per Run 2	9.9617 ppm	1.0009 ppm	0.9995 ppm	25.0196 ppm	1.0024 ppm	0.9980 ppm	0.9938 ppm
Concentration per Run 3	9.9476 ppm	1.0001 ppm	1.0028 ppm	24.8930 ppm	0.9915 ppm	0.9997 ppm	0.9948 ppm
Concentration RSD	0.8 %	0.1 %	0.3 %	0.4 %	0.8 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0042 ppm	10.0888 ppm	1.0055 ppm	0.9977 ppm	1.0078 ppm	1.0003 ppm	1.0079 ppm
Concentration per Run 2	1.0037 ppm	9.9726 ppm	1.0040 ppm	0.9951 ppm	0.9991 ppm	1.0025 ppm	0.9972 ppm
Concentration per Run 3	0.9921 ppm	9.9385 ppm	0.9904 ppm	1.0072 ppm	0.9931 ppm	0.9972 ppm	0.9948 ppm
Concentration RSD	0.7 %	0.8 %	0.8 %	0.6 %	0.7 %	0.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	99.4758 %	102.5363 %	96.5800 %	92.3591 %	97.8838 %	93.8499 %
Concentration per Run 1	1.0100 ppm	98.4824 %	102.5646 %	96.3779 %	91.2351 %	97.8263 %	93.5378 %
Concentration per Run 2	1.0017 ppm	99.8949 %	102.4252 %	96.4741 %	92.8387 %	98.0547 %	93.8400 %
Concentration per Run 3	0.9883 ppm	100.0501 %	102.6192 %	96.8880 %	93.0035 %	97.7704 %	94.1718 %
Concentration RSD	1.1 %	0.9 %	0.1 %	0.3 %	1.1 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: ICV
Analysis started at: 6/19/2024 6:20:10 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5071 ppm	0.4992 ppm	0.4852 ppm	0.4983 ppm	0.5020 ppm	0.5090 ppm	0.4879 ppm
Concentration per Run 1	0.5135 ppm	0.5083 ppm	0.4840 ppm	0.5049 ppm	0.5043 ppm	0.5110 ppm	0.4866 ppm
Concentration per Run 2	0.5048 ppm	0.4923 ppm	0.4893 ppm	0.4982 ppm	0.5020 ppm	0.5092 ppm	0.4891 ppm
Concentration per Run 3	0.5029 ppm	0.4969 ppm	0.4825 ppm	0.4917 ppm	0.4996 ppm	0.5067 ppm	0.4880 ppm
Recovery Percentage 1	101.420 %	99.835 %	97.050 %	99.655 %	100.391 %	101.797 %	97.581 %
Concentration RSD	1.1 %	1.7 %	0.7 %	1.3 %	0.5 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5096 ppm	0.5134 ppm	0.4988 ppm	0.4938 ppm	0.5053 ppm	5.2645 ppm	0.4971 ppm
Concentration per Run 1	0.5161 ppm	0.5210 ppm	0.5068 ppm	0.5003 ppm	0.5082 ppm	5.2929 ppm	0.5005 ppm
Concentration per Run 2	0.5080 ppm	0.5108 ppm	0.4944 ppm	0.4931 ppm	0.5044 ppm	5.2755 ppm	0.4971 ppm
Concentration per Run 3	0.5047 ppm	0.5085 ppm	0.4953 ppm	0.4880 ppm	0.5032 ppm	5.2250 ppm	0.4936 ppm
Recovery Percentage 1	101.915 %	102.680 %	99.766 %	98.755 %	101.051 %	105.290 %	99.414 %
Concentration RSD	1.2 %	1.3 %	1.4 %	1.2 %	0.5 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4956 ppm	0.4961 ppm	0.5030 ppm	10.1993 ppm	0.5125 ppm	0.4979 ppm	0.5001 ppm
Concentration per Run 1	0.5029 ppm	0.4965 ppm	0.5058 ppm	10.2152 ppm	0.5198 ppm	0.4988 ppm	0.5067 ppm
Concentration per Run 2	0.4930 ppm	0.4961 ppm	0.5007 ppm	10.2083 ppm	0.5080 ppm	0.4972 ppm	0.4963 ppm
Concentration per Run 3	0.4910 ppm	0.4959 ppm	0.5024 ppm	10.1744 ppm	0.5095 ppm	0.4979 ppm	0.4975 ppm
Recovery Percentage 1	99.128 %	99.228 %	100.595 %	101.993 %	102.490 %	99.590 %	100.028 %
Concentration RSD	1.3 %	0.1 %	0.5 %	0.2 %	1.3 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4952 ppm	5.2254 ppm	0.5204 ppm	0.4956 ppm	0.5063 ppm	0.4948 ppm	0.4991 ppm
Concentration per Run 1	0.4965 ppm	5.2964 ppm	0.5269 ppm	0.4972 ppm	0.5136 ppm	0.4943 ppm	0.5064 ppm
Concentration per Run 2	0.4993 ppm	5.2001 ppm	0.5166 ppm	0.4957 ppm	0.5036 ppm	0.4956 ppm	0.4970 ppm
Concentration per Run 3	0.4899 ppm	5.1796 ppm	0.5177 ppm	0.4937 ppm	0.5017 ppm	0.4944 ppm	0.4938 ppm
Recovery Percentage 1	99.048 %	99.531 %	104.082 %	99.112 %	101.255 %	98.956 %	99.812 %
Concentration RSD	1.0 %	1.2 %	1.1 %	0.4 %	1.3 %	0.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5128 ppm	99.4245 %	103.7292 %	99.4807 %	94.2445 %	100.0908 %	96.0608 %
Concentration per Run 1	0.5208 ppm	98.3003 %	103.8891 %	99.4177 %	93.0746 %	100.2189 %	96.1110 %
Concentration per Run 2	0.5086 ppm	99.6718 %	102.9251 %	99.8059 %	94.6404 %	99.1642 %	96.1829 %
Concentration per Run 3	0.5089 ppm	100.3015 %	104.3735 %	99.2184 %	95.0185 %	100.8893 %	95.8883 %
Recovery Percentage 1	102.558 %						
Concentration RSD	1.4 %	1.0 %	0.7 %	0.3 %	1.1 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: ICB
Analysis started at: 6/19/2024 6:24:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0015 ppm	-0.0002 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	-0.0008 ppm	0.0023 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0004 ppm	-0.0020 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 3	-0.0002 ppm	0.0061 ppm	-0.0003 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	-0.0018 ppm
Recovery Percentage 1	1.794 %	1.490 %	-5.542 %	5.249 %	-1.869 %	0.597 %	-1.321 %
Concentration RSD	236.9 %	281.6 %	389.7 %	126.4 %	21.9 %	236.3 %	79.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0101 ppm	-0.0038 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0053 ppm	0.0056 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0023 ppm	-0.0050 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0010 ppm	0.0226 ppm	-0.0120 ppm	-0.0025 ppm
Recovery Percentage 1	1.398 %	0.124 %	-4.361 %	6.194 %	20.157 %	-0.152 %	-0.060 %
Concentration RSD	67.6 %	1,985.8 %	30.1 %	51.6 %	108.7 %	232.6 %	36,985.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0013 ppm	-0.0037 ppm	-0.0001 ppm	-0.0011 ppm	0.0022 ppm
Concentration per Run 1	0.0020 ppm	0.0000 ppm	0.0016 ppm	-0.0097 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	-0.0013 ppm	-0.0001 ppm	0.0011 ppm	-0.0043 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0002 ppm	0.0014 ppm	0.0028 ppm	0.0000 ppm	-0.0021 ppm	0.0047 ppm
Recovery Percentage 1	-0.109 %	0.413 %	2.690 %	-0.187 %	-0.484 %	-10.900 %	4.302 %
Concentration RSD	1,699.6 %	457.4 %	17.2 %	167.3 %	306.0 %	118.0 %	107.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0019 ppm	-0.0006 ppm	-0.0019 ppm	0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 2	-0.0002 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 3	-0.0022 ppm	0.0018 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-14.645 %	-0.017 %	-2.021 %	0.404 %	-1.551 %	-3.154 %	2.022 %
Concentration RSD	74.0 %	1,989.1 %	79.6 %	214.4 %	56.5 %	180.1 %	76.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	93.2154 %	99.8256 %	95.5572 %	94.6985 %	100.5591 %	96.9942 %
Concentration per Run 1	0.0002 ppm	90.9197 %	100.0058 %	95.1218 %	92.9400 %	101.2345 %	96.8871 %
Concentration per Run 2	0.0001 ppm	93.5812 %	99.7261 %	95.7360 %	94.9902 %	100.2816 %	96.8360 %
Concentration per Run 3	0.0000 ppm	95.1454 %	99.7448 %	95.8138 %	96.1654 %	100.1612 %	97.2596 %
Recovery Percentage 1	2.403 %						
Concentration RSD	89.4 %	2.3 %	0.2 %	0.4 %	1.7 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ
Analysis started at: 6/19/2024 6:29:25 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0074 ppm	0.1021 ppm	0.0044 ppm	0.0311 ppm	0.0103 ppm	0.0051 ppm	0.1016 ppm
Concentration per Run 1	0.0079 ppm	0.1017 ppm	0.0044 ppm	0.0326 ppm	0.0104 ppm	0.0051 ppm	0.0982 ppm
Concentration per Run 2	0.0073 ppm	0.1048 ppm	0.0046 ppm	0.0302 ppm	0.0103 ppm	0.0051 ppm	0.1035 ppm
Concentration per Run 3	0.0070 ppm	0.0997 ppm	0.0044 ppm	0.0304 ppm	0.0103 ppm	0.0050 ppm	0.1031 ppm
Recovery Percentage 1	105.761 %	102.068 %	88.943 %	103.565 %	103.223 %	101.797 %	101.601 %
Concentration RSD	6.2 %	2.5 %	2.4 %	4.2 %	0.7 %	0.9 %	2.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0214 ppm	0.0104 ppm	0.0111 ppm	0.0611 ppm	2.7555 ppm	0.0106 ppm
Concentration per Run 1	0.0042 ppm	0.0218 ppm	0.0103 ppm	0.0110 ppm	0.0623 ppm	2.7901 ppm	0.0121 ppm
Concentration per Run 2	0.0042 ppm	0.0215 ppm	0.0108 ppm	0.0113 ppm	0.0591 ppm	2.7401 ppm	0.0104 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0100 ppm	0.0109 ppm	0.0618 ppm	2.7363 ppm	0.0094 ppm
Recovery Percentage 1	83.695 %	106.829 %	103.692 %	110.918 %	122.108 %	110.220 %	106.212 %
Concentration RSD	0.5 %	2.6 %	4.0 %	2.0 %	2.8 %	1.1 %	13.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1047 ppm	0.0107 ppm	0.0521 ppm	2.2045 ppm	0.0258 ppm	0.0098 ppm	0.0491 ppm
Concentration per Run 1	0.1072 ppm	0.0107 ppm	0.0517 ppm	2.2037 ppm	0.0257 ppm	0.0104 ppm	0.0485 ppm
Concentration per Run 2	0.1030 ppm	0.0105 ppm	0.0519 ppm	2.2099 ppm	0.0258 ppm	0.0097 ppm	0.0518 ppm
Concentration per Run 3	0.1039 ppm	0.0110 ppm	0.0526 ppm	2.2000 ppm	0.0260 ppm	0.0093 ppm	0.0471 ppm
Recovery Percentage 1	104.706 %	107.466 %	104.180 %	110.225 %	103.396 %	98.138 %	98.209 %
Concentration RSD	2.1 %	2.7 %	0.9 %	0.2 %	0.4 %	5.9 %	4.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0078 ppm	0.5385 ppm	0.0525 ppm	0.0101 ppm	0.0511 ppm	0.0187 ppm	0.0100 ppm
Concentration per Run 1	0.0078 ppm	0.5449 ppm	0.0546 ppm	0.0101 ppm	0.0518 ppm	0.0201 ppm	0.0100 ppm
Concentration per Run 2	0.0080 ppm	0.5362 ppm	0.0511 ppm	0.0101 ppm	0.0510 ppm	0.0182 ppm	0.0102 ppm
Concentration per Run 3	0.0076 ppm	0.5344 ppm	0.0518 ppm	0.0101 ppm	0.0506 ppm	0.0179 ppm	0.0099 ppm
Recovery Percentage 1	78.014 %	107.700 %	104.983 %	100.877 %	102.267 %	93.597 %	100.000 %
Concentration RSD	2.6 %	1.0 %	3.5 %	0.2 %	1.2 %	6.3 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	98.3763 %	102.1036 %	98.6015 %	94.9613 %	99.3968 %	96.6143 %
Concentration per Run 1	0.0055 ppm	97.3167 %	101.4899 %	98.7194 %	94.3343 %	98.8168 %	97.1369 %
Concentration per Run 2	0.0057 ppm	98.5211 %	101.4364 %	98.1177 %	95.0396 %	98.5560 %	95.9133 %
Concentration per Run 3	0.0056 ppm	99.2910 %	103.3844 %	98.9675 %	95.5100 %	100.8174 %	96.7927 %
Recovery Percentage 1	111.881 %						
Concentration RSD	1.4 %	1.0 %	1.1 %	0.4 %	0.6 %	1.2 %	0.7 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: ICSA
Analysis started at: 6/19/2024 6:33:25 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	498.5300 ppm	-0.0013 ppm	0.0019 ppm	0.0018 ppm	0.0001 ppm	472.5740 ppm
Concentration per Run 1	-0.0007 ppm	497.3950 ppm	-0.0026 ppm	0.0031 ppm	0.0020 ppm	0.0001 ppm	472.4316 ppm
Concentration per Run 2	-0.0005 ppm	499.7258 ppm	-0.0008 ppm	0.0024 ppm	0.0017 ppm	0.0001 ppm	472.3858 ppm
Concentration per Run 3	-0.0006 ppm	498.4694 ppm	-0.0006 ppm	0.0001 ppm	0.0017 ppm	0.0001 ppm	472.9046 ppm
Recovery Percentage 1	-8.944 %	498,530.042 %	-43.845 %	6.187 %	18.070 %	1.913 %	472,574.008 %
Concentration RSD	18.6 %	0.2 %	82.8 %	85.2 %	8.1 %	33.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0009 ppm	-0.0011 ppm	-0.0030 ppm	190.4191 ppm	0.0449 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	-0.0015 ppm	-0.0028 ppm	190.5966 ppm	0.0641 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0010 ppm	-0.0031 ppm	190.1750 ppm	0.0550 ppm	0.0008 ppm
Concentration per Run 3	-0.0002 ppm	-0.0012 ppm	-0.0010 ppm	-0.0033 ppm	190.4858 ppm	0.0155 ppm	0.0026 ppm
Recovery Percentage 1	-0.442 %	-4.392 %	-11.451 %	-30.467 %	380,838.241 %	1.795 %	25.325 %
Concentration RSD	537.6 %	29.6 %	25.6 %	8.4 %	0.1 %	57.6 %	67.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	478.9781 ppm	0.0021 ppm	-0.0010 ppm	0.0181 ppm	-0.0007 ppm	-0.0020 ppm	0.0008 ppm
Concentration per Run 1	483.1031 ppm	0.0022 ppm	-0.0015 ppm	0.0222 ppm	-0.0003 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 2	478.5453 ppm	0.0022 ppm	-0.0013 ppm	0.0182 ppm	-0.0006 ppm	-0.0039 ppm	0.0007 ppm
Concentration per Run 3	475.2859 ppm	0.0018 ppm	-0.0002 ppm	0.0139 ppm	-0.0012 ppm	-0.0007 ppm	0.0024 ppm
Recovery Percentage 1	478,978.127 %	20.765 %	-1.954 %	0.905 %	-2.850 %	-19.567 %	1.636 %
Concentration RSD	0.8 %	12.4 %	73.1 %	22.9 %	64.1 %	85.3 %	187.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0205 ppm	-0.0012 ppm	0.0005 ppm	-0.0003 ppm	0.0030 ppm	0.0007 ppm
Concentration per Run 1	-0.0008 ppm	0.0190 ppm	-0.0021 ppm	0.0005 ppm	-0.0002 ppm	0.0053 ppm	0.0005 ppm
Concentration per Run 2	-0.0057 ppm	0.0237 ppm	-0.0012 ppm	0.0005 ppm	-0.0005 ppm	0.0017 ppm	0.0010 ppm
Concentration per Run 3	-0.0004 ppm	0.0187 ppm	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	0.0022 ppm	0.0007 ppm
Recovery Percentage 1	-22.931 %	4.094 %	-2.386 %	5.343 %	-3.355 %	15.245 %	7.086 %
Concentration RSD	127.5 %	13.9 %	77.7 %	8.4 %	39.3 %	64.8 %	34.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	90.3955 %	94.9803 %	81.2159 %	84.1854 %	92.4872 %	84.3374 %
Concentration per Run 1	0.0004 ppm	89.7226 %	94.8279 %	81.2178 %	83.1978 %	92.2611 %	84.2502 %
Concentration per Run 2	0.0004 ppm	90.3046 %	95.3472 %	81.1478 %	84.1868 %	92.9298 %	84.4777 %
Concentration per Run 3	0.0006 ppm	91.1591 %	94.7659 %	81.2821 %	85.1715 %	92.2707 %	84.2843 %
Recovery Percentage 1	8.993 %						
Concentration RSD	30.1 %	0.8 %	0.3 %	0.1 %	1.2 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: SIC Multi
Analysis started at: 6/19/2024 6:56:07 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0014 ppm	0.0154 ppm	-0.0003 ppm	0.0036 ppm	0.0000 ppm	-0.0009 ppm	0.0079 ppm
Concentration per Run 1	-0.0016 ppm	0.0234 ppm	-0.0009 ppm	0.0033 ppm	0.0000 ppm	-0.0009 ppm	0.0092 ppm
Concentration per Run 2	-0.0013 ppm	0.0122 ppm	0.0000 ppm	0.0039 ppm	0.0002 ppm	-0.0010 ppm	0.0091 ppm
Concentration per Run 3	-0.0012 ppm	0.0105 ppm	0.0000 ppm	0.0036 ppm	0.0000 ppm	-0.0008 ppm	0.0055 ppm
Recovery Percentage 1	-19.444 %	15.370 %	-10.153 %	11.925 %	0.476 %	-22.375 %	7.948 %
Concentration RSD	16.6 %	45.6 %	178.9 %	7.9 %	248.7 %	10.2 %	26.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	19.6114 ppm	-0.0012 ppm	0.0159 ppm	0.0018 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	19.6957 ppm	-0.0013 ppm	0.0133 ppm	0.0167 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	-0.0009 ppm	19.6254 ppm	-0.0013 ppm	0.0207 ppm	-0.0259 ppm	-0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	19.5133 ppm	-0.0011 ppm	0.0138 ppm	0.0147 ppm	0.0019 ppm
Recovery Percentage 1	1.411 %	-1.299 %	196,114.439 %	-12.166 %	31.888 %	0.074 %	5.827 %
Concentration RSD	58.6 %	308.6 %	0.5 %	9.7 %	26.1 %	1,299.1 %	255.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0031 ppm	20.1994 ppm	0.0002 ppm	-0.0020 ppm	0.0004 ppm	-0.0034 ppm	-0.0104 ppm
Concentration per Run 1	-0.0020 ppm	20.1713 ppm	0.0000 ppm	0.0006 ppm	0.0006 ppm	-0.0035 ppm	-0.0113 ppm
Concentration per Run 2	-0.0043 ppm	20.2144 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	-0.0024 ppm	-0.0137 ppm
Concentration per Run 3	-0.0029 ppm	20.2125 ppm	0.0005 ppm	-0.0064 ppm	-0.0001 ppm	-0.0043 ppm	-0.0063 ppm
Recovery Percentage 1	-3.076 %	201,994.107 %	0.384 %	-0.100 %	1.529 %	-34.076 %	-20.871 %
Concentration RSD	36.4 %	0.1 %	142.4 %	192.3 %	109.4 %	28.5 %	36.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0047 ppm	0.0106 ppm	-0.0061 ppm	0.0004 ppm	19.2982 ppm	0.0111 ppm	9.9595 ppm
Concentration per Run 1	-0.0028 ppm	-0.0113 ppm	-0.0066 ppm	0.0004 ppm	19.3811 ppm	0.0128 ppm	10.0202 ppm
Concentration per Run 2	-0.0046 ppm	0.0088 ppm	-0.0049 ppm	0.0005 ppm	19.3071 ppm	0.0112 ppm	9.9638 ppm
Concentration per Run 3	-0.0069 ppm	0.0342 ppm	-0.0069 ppm	0.0004 ppm	19.2065 ppm	0.0094 ppm	9.8944 ppm
Recovery Percentage 1	-47.465 %	2.117 %	-12.254 %	4.230 %	192,982.426 %	55.436 %	99,594.539 %
Concentration RSD	43.8 %	215.4 %	17.3 %	10.9 %	0.5 %	15.4 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	101.7288 %	104.1885 %	82.7058 %	95.4489 %	100.3700 %	97.7086 %
Concentration per Run 1	0.0004 ppm	101.7642 %	104.6604 %	83.0103 %	95.4315 %	100.7553 %	98.2616 %
Concentration per Run 2	0.0004 ppm	101.2667 %	104.1730 %	82.8623 %	94.9788 %	100.2130 %	97.5772 %
Concentration per Run 3	0.0006 ppm	102.1554 %	103.7322 %	82.2448 %	95.9366 %	100.1416 %	97.2869 %
Recovery Percentage 1	9.204 %						
Concentration RSD	22.3 %	0.4 %	0.4 %	0.5 %	0.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR Check
Analysis started at: 6/19/2024 7:00:12 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	0.0978 ppm	22.3934 ppm	19.7958 ppm	20.1533 ppm	5.1173 ppm	0.0183 ppm
Concentration per Run 1	0.0019 ppm	0.1062 ppm	22.3584 ppm	19.9065 ppm	20.1634 ppm	5.1087 ppm	0.0186 ppm
Concentration per Run 2	0.0015 ppm	0.0956 ppm	22.3353 ppm	19.8233 ppm	20.1797 ppm	5.1245 ppm	0.0190 ppm
Concentration per Run 3	0.0013 ppm	0.0915 ppm	22.4864 ppm	19.6577 ppm	20.1167 ppm	5.1188 ppm	0.0172 ppm
Recovery Percentage 1			111.967 %	98.979 %	100.766 %		0.000 %
Concentration RSD	18.7 %	7.8 %	0.4 %	0.6 %	0.2 %	0.2 %	5.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	5.0188 ppm	5.0964 ppm	0.0019 ppm	20.3262 ppm	0.0392 ppm	533.7493 ppm	19.3120 ppm
Concentration per Run 1	5.0499 ppm	5.1168 ppm	0.0023 ppm	20.4487 ppm	0.0383 ppm	532.4521 ppm	19.1879 ppm
Concentration per Run 2	5.0243 ppm	5.1019 ppm	0.0019 ppm	20.3032 ppm	0.0382 ppm	531.6275 ppm	19.2671 ppm
Concentration per Run 3	4.9822 ppm	5.0705 ppm	0.0015 ppm	20.2267 ppm	0.0412 ppm	537.1682 ppm	19.4810 ppm
Recovery Percentage 1	100.376 %	101.928 %		101.631 %	0.000 %	106.750 %	96.560 %
Concentration RSD	0.7 %	0.5 %	22.5 %	0.6 %	4.3 %	0.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0042 ppm	0.0015 ppm	5.1365 ppm	423.9559 ppm	10.0730 ppm	52.5749 ppm	5.1821 ppm
Concentration per Run 1	-0.0036 ppm	0.0015 ppm	5.1098 ppm	422.5156 ppm	10.1175 ppm	52.6910 ppm	5.2020 ppm
Concentration per Run 2	-0.0042 ppm	0.0017 ppm	5.1565 ppm	425.7556 ppm	10.0863 ppm	52.4601 ppm	5.1802 ppm
Concentration per Run 3	-0.0049 ppm	0.0013 ppm	5.1431 ppm	423.5964 ppm	10.0151 ppm	52.5736 ppm	5.1641 ppm
Recovery Percentage 1		0.000 %	102.730 %	84.791 %	100.730 %	105.150 %	103.642 %
Concentration RSD	15.8 %	13.3 %	0.5 %	0.4 %	0.5 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.3832 ppm	22.5106 ppm	7.8721 ppm	4.9361 ppm	0.0117 ppm	5.1147 ppm	-0.0008 ppm
Concentration per Run 1	5.3959 ppm	22.6199 ppm	7.9254 ppm	4.9316 ppm	0.0130 ppm	5.1002 ppm	-0.0005 ppm
Concentration per Run 2	5.3444 ppm	22.5249 ppm	7.8719 ppm	4.9461 ppm	0.0115 ppm	5.0939 ppm	-0.0011 ppm
Concentration per Run 3	5.4091 ppm	22.3871 ppm	7.8190 ppm	4.9307 ppm	0.0106 ppm	5.1499 ppm	-0.0009 ppm
Recovery Percentage 1	107.663 %	112.553 %	78.721 %	98.723 %	0.000 %	102.293 %	0.000 %
Concentration RSD	0.6 %	0.5 %	0.7 %	0.2 %	10.1 %	0.6 %	31.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.5894 ppm	92.4359 %	96.1713 %	86.7293 %	85.7241 %	91.6482 %	83.5731 %
Concentration per Run 1	19.7094 ppm	92.5046 %	96.3623 %	86.6160 %	85.4530 %	91.6805 %	83.3299 %
Concentration per Run 2	19.6028 ppm	92.1137 %	95.8741 %	86.7364 %	85.5341 %	91.5854 %	83.6758 %
Concentration per Run 3	19.4561 ppm	92.6895 %	96.2776 %	86.8355 %	86.1853 %	91.6786 %	83.7135 %
Recovery Percentage 1	97.947 %						
Concentration RSD	0.6 %	0.3 %	0.3 %	0.1 %	0.5 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ 0.01
Analysis started at: 6/19/2024 7:26:01 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0088 ppm	0.0084 ppm	0.0099 ppm	0.0081 ppm	0.0095 ppm	0.0095 ppm	0.0220 ppm
Concentration per Run 1	0.0086 ppm	0.0075 ppm	0.0117 ppm	0.0093 ppm	0.0094 ppm	0.0095 ppm	0.0231 ppm
Concentration per Run 2	0.0089 ppm	0.0090 ppm	0.0082 ppm	0.0075 ppm	0.0096 ppm	0.0095 ppm	0.0228 ppm
Concentration per Run 3	0.0088 ppm	0.0086 ppm	0.0099 ppm	0.0075 ppm	0.0096 ppm	0.0095 ppm	0.0201 ppm
Recovery Percentage 1	0.000 %	0.000 %	99.327 %	80.810 %	95.225 %	0.000 %	0.000 %
Concentration RSD	1.4 %	9.3 %	17.5 %	13.0 %	1.6 %	0.3 %	7.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0088 ppm	0.0087 ppm	0.0089 ppm	0.0082 ppm	0.0126 ppm	0.1571 ppm	**0.0125 ppm**
Concentration per Run 1	0.0087 ppm	0.0087 ppm	0.0089 ppm	0.0082 ppm	0.0132 ppm	0.1799 ppm	0.0141 ppm
Concentration per Run 2	0.0089 ppm	0.0086 ppm	0.0089 ppm	0.0084 ppm	0.0133 ppm	0.1528 ppm	0.0121 ppm
Concentration per Run 3	0.0089 ppm	0.0089 ppm	0.0088 ppm	0.0079 ppm	0.0113 ppm	0.1386 ppm	0.0114 ppm
Recovery Percentage 1	0.000 %	87.440 %	88.674 %	81.884 %	0.000 %	0.000 %	125.339 %
Concentration RSD	1.4 %	1.6 %	0.7 %	2.9 %	8.6 %	13.3 %	**11.3 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0101 ppm	0.0101 ppm	0.0092 ppm	0.2485 ppm	0.0086 ppm	0.0083 ppm	0.0137 ppm
Concentration per Run 1	0.0101 ppm	0.0100 ppm	0.0089 ppm	0.2525 ppm	0.0086 ppm	0.0085 ppm	0.0102 ppm
Concentration per Run 2	0.0102 ppm	0.0101 ppm	0.0092 ppm	0.2421 ppm	0.0083 ppm	0.0090 ppm	0.0139 ppm
Concentration per Run 3	0.0101 ppm	0.0102 ppm	0.0095 ppm	0.2508 ppm	0.0088 ppm	0.0073 ppm	0.0169 ppm
Recovery Percentage 1	0.000 %	100.917 %	92.099 %	0.000 %	85.647 %	82.715 %	0.000 %
Concentration RSD	0.5 %	0.6 %	3.4 %	2.2 %	3.1 %	10.9 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0083 ppm	0.0898 ppm	0.0088 ppm	0.0097 ppm	0.0089 ppm	0.0096 ppm	0.0085 ppm
Concentration per Run 1	0.0096 ppm	0.0898 ppm	0.0084 ppm	0.0096 ppm	0.0090 ppm	0.0095 ppm	0.0080 ppm
Concentration per Run 2	0.0072 ppm	0.0905 ppm	0.0096 ppm	0.0097 ppm	0.0090 ppm	0.0097 ppm	0.0085 ppm
Concentration per Run 3	0.0082 ppm	0.0891 ppm	0.0082 ppm	0.0097 ppm	0.0087 ppm	0.0095 ppm	0.0090 ppm
Recovery Percentage 1	83.339 %	0.000 %	87.560 %	96.680 %	88.766 %	95.881 %	85.198 %
Concentration RSD	14.6 %	0.8 %	8.6 %	0.5 %	2.0 %	1.0 %	5.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0104 ppm	119.5781 %	108.1174 %	112.2554 %	101.3279 %	99.9541 %	101.1204 %
Concentration per Run 1	0.0104 ppm	121.2578 %	108.5288 %	113.2995 %	101.0719 %	99.6961 %	101.2733 %
Concentration per Run 2	0.0101 ppm	119.5032 %	107.8085 %	111.9890 %	101.3448 %	100.0773 %	100.7338 %
Concentration per Run 3	0.0107 ppm	117.9734 %	108.0150 %	111.4776 %	101.5669 %	100.0889 %	101.3540 %
Recovery Percentage 1	103.786 %						
Concentration RSD	3.0 %	1.4 %	0.3 %	0.8 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LLOQ 0.05
Analysis started at: 6/19/2024 7:30:17 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0528 ppm	0.0549 ppm	0.0489 ppm	0.0522 ppm	0.0517 ppm	0.0513 ppm	0.0633 ppm
Concentration per Run 1	0.0537 ppm	0.0660 ppm	0.0495 ppm	0.0554 ppm	0.0518 ppm	0.0514 ppm	0.0635 ppm
Concentration per Run 2	0.0524 ppm	0.0493 ppm	0.0490 ppm	0.0506 ppm	0.0514 ppm	0.0511 ppm	0.0632 ppm
Concentration per Run 3	0.0522 ppm	0.0492 ppm	0.0482 ppm	0.0507 ppm	0.0519 ppm	0.0514 ppm	0.0631 ppm
Recovery Percentage 1	0.000 %	109.719 %	0.000 %	0.000 %	0.000 %	0.000 %	126.519 %
Concentration RSD	1.6 %	17.6 %	1.3 %	5.3 %	0.6 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.0538 ppm	0.0520 ppm	0.0517 ppm	0.0545 ppm	0.5934 ppm	0.0566 ppm
Concentration per Run 1	0.0541 ppm	0.0554 ppm	0.0531 ppm	0.0528 ppm	0.0541 ppm	0.6128 ppm	0.0586 ppm
Concentration per Run 2	0.0524 ppm	0.0532 ppm	0.0514 ppm	0.0516 ppm	0.0531 ppm	0.5917 ppm	0.0550 ppm
Concentration per Run 3	0.0519 ppm	0.0529 ppm	0.0513 ppm	0.0507 ppm	0.0561 ppm	0.5758 ppm	0.0561 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	108.905 %	23.737 %	0.000 %
Concentration RSD	2.2 %	2.5 %	2.0 %	2.1 %	2.8 %	3.1 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0524 ppm	0.0515 ppm	0.0521 ppm	1.1053 ppm	0.0543 ppm	0.0510 ppm	0.0507 ppm
Concentration per Run 1	0.0535 ppm	0.0519 ppm	0.0530 ppm	1.1056 ppm	0.0549 ppm	0.0514 ppm	0.0524 ppm
Concentration per Run 2	0.0517 ppm	0.0513 ppm	0.0514 ppm	1.1065 ppm	0.0547 ppm	0.0514 ppm	0.0502 ppm
Concentration per Run 3	0.0520 ppm	0.0515 ppm	0.0518 ppm	1.1037 ppm	0.0533 ppm	0.0502 ppm	0.0495 ppm
Recovery Percentage 1	104.764 %	0.000 %	0.000 %	110.526 %	0.000 %	0.000 %	101.366 %
Concentration RSD	1.8 %	0.6 %	1.6 %	0.1 %	1.6 %	1.3 %	3.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0467 ppm	0.5381 ppm	0.0540 ppm	0.0513 ppm	0.0517 ppm	0.0495 ppm	0.0510 ppm
Concentration per Run 1	0.0473 ppm	0.5480 ppm	0.0562 ppm	0.0513 ppm	0.0528 ppm	0.0502 ppm	0.0523 ppm
Concentration per Run 2	0.0461 ppm	0.5347 ppm	0.0533 ppm	0.0511 ppm	0.0512 ppm	0.0492 ppm	0.0503 ppm
Concentration per Run 3	0.0466 ppm	0.5316 ppm	0.0527 ppm	0.0514 ppm	0.0512 ppm	0.0490 ppm	0.0505 ppm
Recovery Percentage 1	0.000 %	107.625 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.2 %	1.6 %	3.5 %	0.2 %	1.8 %	1.3 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0549 ppm	96.7075 %	101.7427 %	98.5897 %	95.4755 %	100.2294 %	97.6115 %
Concentration per Run 1	0.0559 ppm	95.0007 %	101.8658 %	98.7954 %	94.4941 %	100.4214 %	97.9945 %
Concentration per Run 2	0.0551 ppm	96.6840 %	101.9110 %	98.8845 %	95.2933 %	100.4293 %	97.7838 %
Concentration per Run 3	0.0537 ppm	98.4376 %	101.4512 %	98.0893 %	96.6392 %	99.8375 %	97.0563 %
Recovery Percentage 1	109.793 %						
Concentration RSD	2.0 %	1.8 %	0.2 %	0.4 %	1.1 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 20 As
Analysis started at: 6/19/2024 7:34:13 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0008 ppm	**20.2769 ppm**	-0.0036 ppm	-0.0001 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run 1	0.0007 ppm	-0.0055 ppm	20.2639 ppm	-0.0033 ppm	-0.0001 ppm	0.0000 ppm	0.0104 ppm
Concentration per Run 2	0.0005 ppm	0.0042 ppm	20.4543 ppm	-0.0053 ppm	-0.0003 ppm	0.0000 ppm	0.0169 ppm
Concentration per Run 3	0.0001 ppm	0.0036 ppm	20.1126 ppm	-0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0138 ppm
Concentration RSD	71.5 %	708.4 %	0.8 %	44.1 %	89.1 %	533.9 %	23.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	0.0114 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0006 ppm	0.0021 ppm	-0.0063 ppm	0.0017 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0027 ppm	0.0277 ppm	-0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0005 ppm	0.0011 ppm	0.0128 ppm	0.0010 ppm
Concentration RSD	65.1 %	119.7 %	92.2 %	48.0 %	39.7 %	149.4 %	426.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	0.0002 ppm	-0.0002 ppm	0.0216 ppm	0.0006 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0027 ppm	0.0001 ppm	-0.0003 ppm	0.0231 ppm	0.0012 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	0.0008 ppm	0.0004 ppm	-0.0008 ppm	0.0234 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	0.0005 ppm	0.0183 ppm	0.0001 ppm	-0.0007 ppm	0.0012 ppm
Concentration RSD	56.5 %	81.8 %	321.8 %	13.2 %	92.0 %	233.7 %	123.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0039 ppm	-0.0012 ppm	0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	-0.0017 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0041 ppm	0.0032 ppm	-0.0010 ppm	0.0000 ppm	-0.0003 ppm	-0.0012 ppm	0.0000 ppm
Concentration RSD	51.0 %	79.2 %	155.9 %	106.7 %	47.0 %	484.6 %	109.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	96.8447 %	102.2510 %	98.4328 %	96.4278 %	101.3505 %	98.4326 %
Concentration per Run 1	0.0021 ppm	95.2572 %	102.0151 %	98.2612 %	95.5383 %	101.4630 %	98.4693 %
Concentration per Run 2	0.0026 ppm	97.2606 %	102.1099 %	98.6573 %	96.8114 %	101.0506 %	98.3833 %
Concentration per Run 3	0.0021 ppm	98.0164 %	102.6280 %	98.3798 %	96.9338 %	101.5378 %	98.4453 %
Concentration RSD	13.2 %	1.5 %	0.3 %	0.2 %	0.8 %	0.3 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 20 Si
Analysis started at: 6/19/2024 7:38:08 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0093 ppm	0.0009 ppm	0.0040 ppm	-0.0002 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 1	0.0001 ppm	0.0095 ppm	0.0010 ppm	0.0044 ppm	-0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0001 ppm	0.0038 ppm	0.0010 ppm	0.0039 ppm	-0.0001 ppm	0.0000 ppm	0.0079 ppm
Concentration per Run 3	0.0007 ppm	0.0145 ppm	0.0008 ppm	0.0038 ppm	-0.0004 ppm	0.0000 ppm	0.0110 ppm
Concentration RSD	108.4 %	57.8 %	13.4 %	8.8 %	69.2 %	141.7 %	18.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0029 ppm	0.0014 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0025 ppm	0.0034 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0038 ppm	0.0033 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0002 ppm	0.0024 ppm	-0.0024 ppm	0.0002 ppm
Concentration RSD	75.4 %	676.6 %	2,749.3 %	812.9 %	27.2 %	234.7 %	147.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0002 ppm	-0.0003 ppm	0.0114 ppm	-0.0005 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 1	0.0005 ppm	0.0003 ppm	-0.0006 ppm	0.0206 ppm	-0.0010 ppm	-0.0011 ppm	0.0036 ppm
Concentration per Run 2	0.0040 ppm	0.0001 ppm	0.0001 ppm	0.0100 ppm	-0.0004 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	0.0004 ppm	-0.0004 ppm	0.0037 ppm	0.0001 ppm	-0.0007 ppm	-0.0004 ppm
Concentration RSD	180.7 %	62.4 %	112.8 %	74.7 %	111.8 %	175.6 %	165.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	20.4502 ppm	-0.0010 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	20.6423 ppm	-0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	20.3693 ppm	-0.0013 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	-0.0033 ppm	20.3389 ppm	-0.0013 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm	0.0002 ppm
Concentration RSD	192.1 %	0.8 %	51.2 %	141.1 %	34.7 %	466.1 %	19.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.1172 %	104.1325 %	101.4557 %	95.9591 %	100.7577 %	98.5498 %
Concentration per Run 1	0.0016 ppm	101.3898 %	104.2623 %	101.4852 %	94.7968 %	100.7066 %	98.4617 %
Concentration per Run 2	0.0017 ppm	102.1396 %	103.8660 %	101.6517 %	96.0607 %	100.3862 %	98.5971 %
Concentration per Run 3	0.0016 ppm	102.8223 %	104.2691 %	101.2303 %	97.0198 %	101.1803 %	98.5906 %
Concentration RSD	2.5 %	0.7 %	0.2 %	0.2 %	1.2 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 500 Na
Analysis started at: 6/19/2024 7:42:05 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0157 ppm
Concentration per Run 1	0.0002 ppm	-0.0011 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0174 ppm
Concentration per Run 2	0.0001 ppm	0.0024 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0151 ppm
Concentration per Run 3	-0.0005 ppm	-0.0003 ppm	-0.0010 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0146 ppm
Concentration RSD	528.7 %	518.3 %	177.4 %	51.6 %	791.7 %	196.5 %	9.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0039 ppm	0.1635 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	-0.0006 ppm	0.0005 ppm	0.0004 ppm	0.0029 ppm	0.1617 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0007 ppm	0.0048 ppm	0.1607 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0039 ppm	0.1680 ppm	-0.0008 ppm
Concentration RSD	22,069.7 %	811.9 %	100.9 %	25.2 %	24.3 %	2.4 %	44.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0009 ppm	0.0003 ppm	-0.0006 ppm	471.4424 ppm	-0.0002 ppm	-0.0009 ppm	-0.0013 ppm
Concentration per Run 1	0.0023 ppm	0.0004 ppm	-0.0008 ppm	473.4384 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0018 ppm	0.0002 ppm	-0.0004 ppm	472.5195 ppm	0.0001 ppm	-0.0007 ppm	-0.0066 ppm
Concentration per Run 3	-0.0015 ppm	0.0004 ppm	-0.0007 ppm	468.3694 ppm	-0.0001 ppm	-0.0020 ppm	0.0025 ppm
Concentration RSD	234.6 %	28.6 %	28.7 %	0.6 %	190.9 %	131.9 %	360.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0045 ppm	-0.0012 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0053 ppm	-0.0015 ppm	0.0000 ppm	-0.0007 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0045 ppm	0.0047 ppm	-0.0010 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0034 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm	-0.0001 ppm
Concentration RSD	184.3 %	22.5 %	27.6 %	69.8 %	92.8 %	26.0 %	259.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	91.8336 %	98.3647 %	92.0742 %	90.1584 %	96.3139 %	92.9322 %
Concentration per Run 1	0.0016 ppm	89.7349 %	98.1742 %	91.2726 %	88.7049 %	96.6483 %	92.3339 %
Concentration per Run 2	0.0015 ppm	92.5680 %	98.6195 %	92.6000 %	90.6588 %	96.2777 %	93.4343 %
Concentration per Run 3	0.0014 ppm	93.1980 %	98.3003 %	92.3501 %	91.1115 %	96.0157 %	93.0284 %
Concentration RSD	4.4 %	2.0 %	0.2 %	0.8 %	1.4 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 500 Fe
Analysis started at: 6/19/2024 7:46:01 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0480 ppm	-0.0005 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0150 ppm
Concentration per Run 1	-0.0020 ppm	0.0455 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0161 ppm
Concentration per Run 2	-0.0021 ppm	0.0543 ppm	-0.0030 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0140 ppm
Concentration per Run 3	-0.0017 ppm	0.0443 ppm	0.0018 ppm	0.0011 ppm	0.0003 ppm	0.0001 ppm	0.0150 ppm
Concentration RSD	10.2 %	11.4 %	498.3 %	53.9 %	62.2 %	246.0 %	7.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0017 ppm	-0.0032 ppm	-0.0077 ppm	466.1864 ppm	-0.0500 ppm	0.0008 ppm
Concentration per Run 1	0.0004 ppm	-0.0014 ppm	-0.0037 ppm	-0.0078 ppm	464.7328 ppm	-0.0463 ppm	0.0005 ppm
Concentration per Run 2	0.0005 ppm	-0.0019 ppm	-0.0034 ppm	-0.0073 ppm	466.8167 ppm	-0.0498 ppm	0.0016 ppm
Concentration per Run 3	0.0004 ppm	-0.0018 ppm	-0.0026 ppm	-0.0080 ppm	467.0098 ppm	-0.0538 ppm	0.0003 ppm
Concentration RSD	9.9 %	15.4 %	16.9 %	4.2 %	0.3 %	7.5 %	87.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0029 ppm	0.0006 ppm	-0.0028 ppm	0.1222 ppm	-0.0013 ppm	0.0003 ppm	0.0103 ppm
Concentration per Run 1	-0.0049 ppm	0.0003 ppm	-0.0028 ppm	0.1267 ppm	-0.0013 ppm	0.0014 ppm	0.0111 ppm
Concentration per Run 2	-0.0009 ppm	0.0009 ppm	-0.0027 ppm	0.1165 ppm	-0.0016 ppm	0.0002 ppm	0.0114 ppm
Concentration per Run 3	-0.0028 ppm	0.0007 ppm	-0.0029 ppm	0.1233 ppm	-0.0011 ppm	-0.0005 ppm	0.0084 ppm
Concentration RSD	69.0 %	48.8 %	3.2 %	4.2 %	20.0 %	273.7 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0017 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm
Concentration per Run 1	-0.0007 ppm	0.0011 ppm	-0.0005 ppm	0.0004 ppm	0.0000 ppm	-0.0007 ppm	0.0022 ppm
Concentration per Run 2	-0.0023 ppm	0.0011 ppm	0.0006 ppm	0.0004 ppm	-0.0003 ppm	0.0014 ppm	0.0023 ppm
Concentration per Run 3	-0.0024 ppm	0.0028 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0014 ppm	0.0025 ppm
Concentration RSD	54.8 %	57.7 %	2,095.0 %	10.6 %	140.5 %	676.1 %	6.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	99.7518 %	101.6786 %	93.4660 %	92.9311 %	98.4233 %	95.9054 %
Concentration per Run 1	0.0008 ppm	99.0361 %	102.1724 %	93.7428 %	91.7326 %	98.8921 %	96.2726 %
Concentration per Run 2	0.0009 ppm	99.9002 %	101.0730 %	92.9122 %	93.2237 %	97.5860 %	95.4611 %
Concentration per Run 3	0.0008 ppm	100.3191 %	101.7905 %	93.7429 %	93.8370 %	98.7919 %	95.9825 %
Concentration RSD	7.7 %	0.7 %	0.5 %	0.5 %	1.2 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 1000 Ca
Analysis started at: 6/19/2024 7:49:58 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0109 ppm	-0.0011 ppm	0.0021 ppm	0.0008 ppm	0.0000 ppm	960.7076 ppm
Concentration per Run 1	-0.0010 ppm	-0.0156 ppm	-0.0027 ppm	0.0030 ppm	0.0007 ppm	0.0000 ppm	959.8109 ppm
Concentration per Run 2	-0.0004 ppm	-0.0032 ppm	-0.0010 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	961.4737 ppm
Concentration per Run 3	-0.0007 ppm	-0.0137 ppm	0.0004 ppm	0.0028 ppm	0.0010 ppm	0.0000 ppm	960.8381 ppm
Concentration RSD	44.2 %	61.6 %	139.6 %	71.5 %	24.7 %	52.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.0005 ppm	0.0001 ppm	0.0006 ppm	0.0281 ppm	0.0287 ppm	0.0001 ppm
Concentration per Run 1	0.0051 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0288 ppm	0.0223 ppm	0.0016 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0271 ppm	0.0472 ppm	0.0001 ppm
Concentration per Run 3	0.0048 ppm	0.0009 ppm	0.0001 ppm	0.0009 ppm	0.0283 ppm	0.0166 ppm	-0.0015 ppm
Concentration RSD	3.7 %	63.5 %	288.3 %	29.0 %	3.1 %	56.7 %	2,404.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0137 ppm	0.0002 ppm	-0.0005 ppm	0.0865 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0151 ppm	0.0004 ppm	-0.0002 ppm	0.0929 ppm	0.0020 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	0.0121 ppm	-0.0001 ppm	-0.0008 ppm	0.0856 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0139 ppm	0.0003 ppm	-0.0006 ppm	0.0809 ppm	0.0008 ppm	0.0006 ppm	0.0006 ppm
Concentration RSD	10.9 %	139.4 %	53.0 %	7.0 %	111.4 %	239.5 %	23,783.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0110 ppm	0.0105 ppm	0.0001 ppm	-0.0009 ppm	-0.0004 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	-0.0093 ppm	0.0104 ppm	-0.0007 ppm	-0.0008 ppm	-0.0005 ppm	0.0022 ppm	0.0004 ppm
Concentration per Run 2	-0.0130 ppm	0.0097 ppm	0.0000 ppm	-0.0009 ppm	-0.0004 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	-0.0107 ppm	0.0114 ppm	0.0010 ppm	-0.0010 ppm	-0.0004 ppm	-0.0014 ppm	0.0006 ppm
Concentration RSD	17.4 %	8.3 %	1,032.2 %	10.6 %	21.8 %	546.2 %	19.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	87.7721 %	94.6474 %	84.3566 %	87.7804 %	95.0862 %	88.3183 %
Concentration per Run 1	0.0023 ppm	86.2386 %	94.8497 %	83.9667 %	86.6969 %	95.5722 %	88.1222 %
Concentration per Run 2	0.0023 ppm	87.9148 %	94.3864 %	84.8447 %	87.8882 %	94.7574 %	88.6385 %
Concentration per Run 3	0.0023 ppm	89.1628 %	94.7060 %	84.2585 %	88.7561 %	94.9289 %	88.1941 %
Concentration RSD	1.5 %	1.7 %	0.3 %	0.5 %	1.2 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 8:06:29 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5005 ppm	0.5032 ppm	0.4834 ppm	0.4963 ppm	0.5039 ppm	0.5081 ppm	0.4895 ppm
Concentration per Run 1	0.5057 ppm	0.5086 ppm	0.4838 ppm	0.4994 ppm	0.5068 ppm	0.5079 ppm	0.4884 ppm
Concentration per Run 2	0.4990 ppm	0.4928 ppm	0.4839 ppm	0.4978 ppm	0.5038 ppm	0.5070 ppm	0.4862 ppm
Concentration per Run 3	0.4967 ppm	0.5082 ppm	0.4825 ppm	0.4916 ppm	0.5010 ppm	0.5095 ppm	0.4939 ppm
Recovery Percentage 1	100.098 %	100.643 %	96.680 %	99.260 %	100.772 %	101.627 %	97.897 %
Concentration RSD	0.9 %	1.8 %	0.2 %	0.8 %	0.6 %	0.2 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5047 ppm	0.5072 ppm	0.4924 ppm	0.4895 ppm	0.5039 ppm	5.3652 ppm	0.5098 ppm
Concentration per Run 1	0.5093 ppm	0.5121 ppm	0.4963 ppm	0.4931 ppm	0.5031 ppm	5.3479 ppm	0.5060 ppm
Concentration per Run 2	0.5041 ppm	0.5057 ppm	0.4921 ppm	0.4907 ppm	0.5053 ppm	5.4107 ppm	0.5136 ppm
Concentration per Run 3	0.5008 ppm	0.5036 ppm	0.4888 ppm	0.4846 ppm	0.5032 ppm	5.3371 ppm	0.5097 ppm
Recovery Percentage 1	100.946 %	101.430 %	98.479 %	97.890 %	100.778 %	107.305 %	101.955 %
Concentration RSD	0.8 %	0.9 %	0.8 %	0.9 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4922 ppm	0.4974 ppm	0.4966 ppm	10.2577 ppm	0.5054 ppm	0.4935 ppm	0.4928 ppm
Concentration per Run 1	0.4946 ppm	0.4971 ppm	0.4959 ppm	10.2664 ppm	0.5093 ppm	0.4933 ppm	0.4968 ppm
Concentration per Run 2	0.4941 ppm	0.4970 ppm	0.4988 ppm	10.2191 ppm	0.5076 ppm	0.4934 ppm	0.4946 ppm
Concentration per Run 3	0.4878 ppm	0.4981 ppm	0.4951 ppm	10.2876 ppm	0.4993 ppm	0.4938 ppm	0.4870 ppm
Recovery Percentage 1	98.435 %	99.484 %	99.312 %	102.577 %	101.079 %	98.701 %	98.563 %
Concentration RSD	0.8 %	0.1 %	0.4 %	0.3 %	1.1 %	0.0 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4882 ppm	5.1898 ppm	0.5149 ppm	0.4969 ppm	0.5000 ppm	0.4885 ppm	0.4935 ppm
Concentration per Run 1	0.4863 ppm	5.2269 ppm	0.5179 ppm	0.4977 ppm	0.5045 ppm	0.4846 ppm	0.4973 ppm
Concentration per Run 2	0.4892 ppm	5.1904 ppm	0.5175 ppm	0.4976 ppm	0.5000 ppm	0.4913 ppm	0.4933 ppm
Concentration per Run 3	0.4892 ppm	5.1522 ppm	0.5094 ppm	0.4953 ppm	0.4956 ppm	0.4895 ppm	0.4898 ppm
Recovery Percentage 1	97.648 %	98.854 %	102.987 %	99.374 %	100.008 %	97.695 %	98.697 %
Concentration RSD	0.3 %	0.7 %	0.9 %	0.3 %	0.9 %	0.7 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5051 ppm	100.5185 %	103.1150 %	99.8743 %	95.2795 %	99.6769 %	96.5149 %
Concentration per Run 1	0.5081 ppm	100.1286 %	102.7566 %	99.8957 %	94.9747 %	99.0933 %	96.5140 %
Concentration per Run 2	0.5067 ppm	100.1647 %	103.0474 %	99.8166 %	95.0184 %	99.6717 %	96.4136 %
Concentration per Run 3	0.5006 ppm	101.2622 %	103.5409 %	99.9106 %	95.8455 %	100.2658 %	96.6170 %
Recovery Percentage 1	101.028 %						
Concentration RSD	0.8 %	0.6 %	0.4 %	0.1 %	0.5 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 8:10:31 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0042 ppm	-0.0009 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	-0.0007 ppm	-0.0060 ppm	-0.0010 ppm	0.0032 ppm	-0.0001 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	0.0004 ppm	0.0098 ppm	-0.0021 ppm	-0.0013 ppm	-0.0001 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0086 ppm	0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-1.811 %	4.152 %	-28.435 %	1.648 %	-0.591 %	1.169 %	-1.372 %
Concentration RSD	443.8 %	212.2 %	154.9 %	477.5 %	53.4 %	16.9 %	98.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0008 ppm	-0.0081 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0009 ppm	-0.0010 ppm	-0.0182 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0004 ppm	0.0025 ppm	0.0250 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	-0.0003 ppm	0.0004 ppm	0.0010 ppm	-0.0312 ppm	0.0021 ppm
Recovery Percentage 1	1.040 %	0.691 %	-3.821 %	5.490 %	1.604 %	-0.324 %	10.881 %
Concentration RSD	74.0 %	478.1 %	54.9 %	52.9 %	219.4 %	362.5 %	84.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	-0.0001 ppm	0.0005 ppm	0.0159 ppm	-0.0005 ppm	-0.0007 ppm	0.0015 ppm
Concentration per Run 1	0.0009 ppm	-0.0002 ppm	-0.0003 ppm	0.0184 ppm	0.0001 ppm	-0.0008 ppm	0.0021 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0011 ppm	0.0163 ppm	-0.0010 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0128 ppm	-0.0005 ppm	-0.0011 ppm	0.0017 ppm
Recovery Percentage 1	0.586 %	-0.624 %	0.948 %	0.793 %	-1.851 %	-6.922 %	3.080 %
Concentration RSD	64.6 %	428.0 %	154.4 %	17.8 %	122.9 %	72.8 %	47.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	-0.0009 ppm	-0.0009 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0029 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	-0.0037 ppm	-0.0019 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0026 ppm	-0.0011 ppm	-0.0013 ppm	-0.0002 ppm	-0.0003 ppm	0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	-30.611 %	-0.181 %	-1.780 %	-0.466 %	-3.473 %	3.262 %	-0.256 %
Concentration RSD	17.3 %	116.9 %	80.4 %	322.7 %	42.1 %	56.5 %	911.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	93.8304 %	98.8406 %	96.3633 %	95.8579 %	100.1610 %	98.2818 %
Concentration per Run 1	0.0002 ppm	91.4479 %	99.1175 %	95.7236 %	94.5118 %	100.4568 %	98.0428 %
Concentration per Run 2	0.0001 ppm	94.5031 %	98.8925 %	96.5279 %	96.1839 %	100.3983 %	98.4599 %
Concentration per Run 3	0.0002 ppm	95.5401 %	98.5117 %	96.8385 %	96.8781 %	99.6279 %	98.3428 %
Recovery Percentage 1	3.278 %						
Concentration RSD	40.6 %	2.3 %	0.3 %	0.6 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: XLLOQ 0.01 Se
Analysis started at: 6/19/2024 8:28:28 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0095 ppm	**0.0005 ppm**	**-0.0004 ppm**	**-0.0003 ppm**	0.0000 ppm	0.0114 ppm
Concentration per Run 1	-0.0001 ppm	0.0050 ppm	-0.0007 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0141 ppm
Concentration per Run 2	0.0000 ppm	0.0081 ppm	0.0018 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0099 ppm
Concentration per Run 3	-0.0007 ppm	0.0154 ppm	0.0005 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0102 ppm
Recovery Percentage 1	0.000 %	0.000 %	5.266 %	-3.921 %	-3.274 %	0.000 %	0.000 %
Concentration RSD	150.7 %	56.2 %	**234.2 %**	**119.9 %**	**30.5 %**	410.1 %	20.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	**-0.0002 ppm**	**-0.0001 ppm**	**-0.0004 ppm**	0.0025 ppm	-0.0004 ppm	**0.0019 ppm**
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm	0.0022 ppm	-0.0044 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0022 ppm	0.0048 ppm	0.0044 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0030 ppm	-0.0014 ppm	0.0011 ppm
Recovery Percentage 1	0.000 %	-2.438 %	-0.555 %	-3.530 %	0.000 %	0.000 %	18.807 %
Concentration RSD	53.7 %	**41.7 %**	**383.7 %**	**14.2 %**	19.2 %	1,305.1 %	**119.2 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0015 ppm	**0.0001 ppm**	**-0.0005 ppm**	0.0145 ppm	**-0.0002 ppm**	**-0.0013 ppm**	-0.0002 ppm
Concentration per Run 1	0.0027 ppm	0.0000 ppm	-0.0003 ppm	0.0165 ppm	-0.0007 ppm	-0.0013 ppm	-0.0018 ppm
Concentration per Run 2	0.0006 ppm	0.0003 ppm	-0.0006 ppm	0.0142 ppm	0.0003 ppm	-0.0021 ppm	-0.0012 ppm
Concentration per Run 3	0.0014 ppm	0.0002 ppm	-0.0006 ppm	0.0128 ppm	-0.0001 ppm	-0.0003 ppm	0.0024 ppm
Recovery Percentage 1	0.000 %	1.471 %	-4.914 %	0.000 %	-1.529 %	-12.519 %	0.000 %
Concentration RSD	69.0 %	**72.1 %**	**34.8 %**	12.9 %	**325.7 %**	**73.6 %**	1,154.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0070 ppm**	0.0034 ppm	**-0.0006 ppm**	**0.0000 ppm**	**-0.0001 ppm**	**-0.0005 ppm**	**0.0001 ppm**
Concentration per Run 1	0.0076 ppm	0.0030 ppm	-0.0011 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0058 ppm	0.0034 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	0.0075 ppm	0.0038 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm
Recovery Percentage 1	69.518 %	0.000 %	-5.941 %	-0.034 %	-0.680 %	-4.796 %	0.574 %
Concentration RSD	**14.4 %**	12.4 %	**86.1 %**	**2,519.4 %**	**200.0 %**	**104.7 %**	**74.6 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0011 ppm**	117.9293 %	107.7189 %	111.2303 %	100.9378 %	100.7328 %	101.1464 %
Concentration per Run 1	0.0012 ppm	119.7941 %	107.3565 %	112.1370 %	100.7912 %	99.9292 %	101.2237 %
Concentration per Run 2	0.0011 ppm	118.2801 %	108.1528 %	110.9460 %	101.2674 %	100.9483 %	100.9803 %
Concentration per Run 3	0.0011 ppm	115.7136 %	107.6475 %	110.6077 %	100.7548 %	101.3210 %	101.2353 %
Recovery Percentage 1	11.197 %						
Concentration RSD	**5.5 %**	1.7 %	0.4 %	0.7 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-02D2 WG1935622
Analysis started at: 6/19/2024 8:40:46 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	162.7534 ppm	0.0968 ppm	0.0042 ppm	0.0691 ppm	0.0040 ppm	18.4082 ppm
Concentration per Run 1	-0.0005 ppm	162.0887 ppm	0.0962 ppm	0.0044 ppm	0.0695 ppm	0.0040 ppm	18.3347 ppm
Concentration per Run 2	-0.0004 ppm	163.1691 ppm	0.0973 ppm	0.0026 ppm	0.0695 ppm	0.0041 ppm	18.4159 ppm
Concentration per Run 3	-0.0001 ppm	163.0023 ppm	0.0968 ppm	0.0055 ppm	0.0683 ppm	0.0040 ppm	18.4739 ppm
Concentration RSD	61.3 %	0.4 %	0.6 %	35.8 %	1.0 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.1765 ppm	0.2137 ppm	0.2985 ppm	361.9153 ppm	2.6562 ppm	0.3476 ppm
Concentration per Run 1	0.0024 ppm	0.1773 ppm	0.2151 ppm	0.3005 ppm	361.5381 ppm	2.6857 ppm	0.3529 ppm
Concentration per Run 2	0.0023 ppm	0.1770 ppm	0.2131 ppm	0.2978 ppm	362.9300 ppm	2.6790 ppm	0.3515 ppm
Concentration per Run 3	0.0024 ppm	0.1752 ppm	0.2128 ppm	0.2972 ppm	361.2778 ppm	2.6040 ppm	0.3383 ppm
Concentration RSD	2.8 %	0.6 %	0.6 %	0.6 %	0.2 %	1.7 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.0215 ppm	5.0517 ppm	0.0072 ppm	1.2596 ppm	0.3641 ppm	0.2089 ppm	0.0073 ppm
Concentration per Run 1	54.3128 ppm	5.0347 ppm	0.0073 ppm	1.2581 ppm	0.3658 ppm	0.2076 ppm	0.0088 ppm
Concentration per Run 2	53.8941 ppm	5.0590 ppm	0.0072 ppm	1.2600 ppm	0.3651 ppm	0.2113 ppm	0.0069 ppm
Concentration per Run 3	53.8575 ppm	5.0613 ppm	0.0071 ppm	1.2607 ppm	0.3614 ppm	0.2077 ppm	0.0061 ppm
Concentration RSD	0.5 %	0.3 %	1.2 %	0.1 %	0.6 %	1.0 %	18.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	9.3898 ppm	0.0018 ppm	0.1106 ppm	0.3248 ppm	0.0023 ppm	0.1791 ppm
Concentration per Run 1	0.0003 ppm	9.4695 ppm	0.0018 ppm	0.1104 ppm	0.3285 ppm	0.0028 ppm	0.1806 ppm
Concentration per Run 2	-0.0016 ppm	9.3754 ppm	0.0012 ppm	0.1107 ppm	0.3277 ppm	0.0024 ppm	0.1792 ppm
Concentration per Run 3	-0.0001 ppm	9.3244 ppm	0.0022 ppm	0.1106 ppm	0.3181 ppm	0.0016 ppm	0.1776 ppm
Concentration RSD	209.9 %	0.8 %	27.9 %	0.1 %	1.8 %	25.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7154 ppm	102.2121 %	102.9017 %	94.1361 %	106.5011 %	112.1546 %	108.5463 %
Concentration per Run 1	0.7198 ppm	101.9683 %	103.2594 %	94.3152 %	105.9508 %	112.2899 %	108.3865 %
Concentration per Run 2	0.7140 ppm	102.5953 %	102.5045 %	93.8607 %	106.8775 %	111.7350 %	108.4128 %
Concentration per Run 3	0.7124 ppm	102.0727 %	102.9412 %	94.2324 %	106.6748 %	112.4391 %	108.8395 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.3 %	0.5 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-03D2 WG1935622
Analysis started at: 6/19/2024 8:44:49 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	141.6980 ppm	0.1165 ppm	0.0352 ppm	0.0721 ppm	0.0033 ppm	15.2041 ppm
Concentration per Run 1	-0.0004 ppm	141.4868 ppm	0.1175 ppm	0.0339 ppm	0.0710 ppm	0.0034 ppm	15.2160 ppm
Concentration per Run 2	0.0003 ppm	141.4767 ppm	0.1165 ppm	0.0360 ppm	0.0729 ppm	0.0033 ppm	15.1762 ppm
Concentration per Run 3	-0.0004 ppm	142.1305 ppm	0.1156 ppm	0.0358 ppm	0.0725 ppm	0.0033 ppm	15.2202 ppm
Concentration RSD	227.8 %	0.3 %	0.8 %	3.2 %	1.3 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.1647 ppm	0.1898 ppm	0.2519 ppm	317.1739 ppm	3.6412 ppm	0.2926 ppm
Concentration per Run 1	0.0012 ppm	0.1668 ppm	0.1918 ppm	0.2534 ppm	315.3542 ppm	3.6218 ppm	0.2875 ppm
Concentration per Run 2	0.0013 ppm	0.1635 ppm	0.1887 ppm	0.2518 ppm	318.1148 ppm	3.6450 ppm	0.2919 ppm
Concentration per Run 3	0.0012 ppm	0.1637 ppm	0.1888 ppm	0.2504 ppm	318.0528 ppm	3.6566 ppm	0.2983 ppm
Concentration RSD	8.5 %	1.1 %	0.9 %	0.6 %	0.5 %	0.5 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.6613 ppm	4.3079 ppm	0.0060 ppm	19.2353 ppm	0.3277 ppm	0.1988 ppm	0.0097 ppm
Concentration per Run 1	50.1223 ppm	4.3117 ppm	0.0058 ppm	19.1956 ppm	0.3312 ppm	0.1985 ppm	0.0103 ppm
Concentration per Run 2	49.3922 ppm	4.3039 ppm	0.0059 ppm	19.2566 ppm	0.3253 ppm	0.1968 ppm	0.0096 ppm
Concentration per Run 3	49.4692 ppm	4.3080 ppm	0.0064 ppm	19.2536 ppm	0.3265 ppm	0.2013 ppm	0.0093 ppm
Concentration RSD	0.8 %	0.1 %	5.2 %	0.2 %	1.0 %	1.1 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	7.0337 ppm	0.0015 ppm	0.1300 ppm	0.7781 ppm	0.0029 ppm	0.1761 ppm
Concentration per Run 1	0.0003 ppm	7.0439 ppm	0.0016 ppm	0.1295 ppm	0.7838 ppm	0.0021 ppm	0.1780 ppm
Concentration per Run 2	-0.0025 ppm	7.0477 ppm	0.0016 ppm	0.1305 ppm	0.7777 ppm	0.0017 ppm	0.1751 ppm
Concentration per Run 3	0.0001 ppm	7.0094 ppm	0.0013 ppm	0.1302 ppm	0.7727 ppm	0.0050 ppm	0.1753 ppm
Concentration RSD	228.5 %	0.3 %	12.4 %	0.4 %	0.7 %	60.6 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6041 ppm	100.9263 %	103.1258 %	93.3499 %	106.9628 %	113.6190 %	109.2124 %
Concentration per Run 1	0.6093 ppm	100.2050 %	103.3132 %	93.5832 %	105.8449 %	113.8611 %	109.1816 %
Concentration per Run 2	0.6003 ppm	101.2739 %	103.0527 %	93.3775 %	107.4098 %	113.5280 %	109.0395 %
Concentration per Run 3	0.6027 ppm	101.3001 %	103.0116 %	93.0892 %	107.6336 %	113.4678 %	109.4162 %
Concentration RSD	0.8 %	0.6 %	0.2 %	0.3 %	0.9 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2431167-04D2 WG1935622
Analysis started at: 6/19/2024 8:48:47 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	70.7880 ppm	0.0477 ppm	0.1030 ppm	0.0923 ppm	0.0019 ppm	100.4793 ppm
Concentration per Run 1	0.0001 ppm	71.0027 ppm	0.0487 ppm	0.1043 ppm	0.0930 ppm	0.0018 ppm	100.3119 ppm
Concentration per Run 2	-0.0001 ppm	70.4733 ppm	0.0473 ppm	0.1036 ppm	0.0918 ppm	0.0020 ppm	100.9030 ppm
Concentration per Run 3	-0.0005 ppm	70.8881 ppm	0.0470 ppm	0.1010 ppm	0.0922 ppm	0.0019 ppm	100.2230 ppm
Concentration RSD	193.3 %	0.4 %	1.9 %	1.7 %	0.6 %	4.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0475 ppm	0.1034 ppm	0.0662 ppm	142.2867 ppm	3.8440 ppm	0.1682 ppm
Concentration per Run 1	0.0009 ppm	0.0484 ppm	0.1044 ppm	0.0667 ppm	142.0091 ppm	3.8849 ppm	0.1691 ppm
Concentration per Run 2	0.0008 ppm	0.0476 ppm	0.1032 ppm	0.0659 ppm	143.2416 ppm	3.8007 ppm	0.1671 ppm
Concentration per Run 3	0.0009 ppm	0.0464 ppm	0.1025 ppm	0.0662 ppm	141.6093 ppm	3.8464 ppm	0.1683 ppm
Concentration RSD	9.2 %	2.1 %	0.9 %	0.6 %	0.6 %	1.1 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	33.4107 ppm	1.5427 ppm	0.0072 ppm	21.6013 ppm	0.1161 ppm	0.0847 ppm	0.0027 ppm
Concentration per Run 1	33.7289 ppm	1.5450 ppm	0.0073 ppm	21.5369 ppm	0.1171 ppm	0.0849 ppm	0.0058 ppm
Concentration per Run 2	33.3886 ppm	1.5401 ppm	0.0074 ppm	21.8280 ppm	0.1171 ppm	0.0847 ppm	0.0037 ppm
Concentration per Run 3	33.1146 ppm	1.5431 ppm	0.0069 ppm	21.4389 ppm	0.1140 ppm	0.0844 ppm	-0.0013 ppm
Concentration RSD	0.9 %	0.2 %	3.9 %	0.9 %	1.6 %	0.3 %	131.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	10.2968 ppm	0.0028 ppm	0.2837 ppm	1.2410 ppm	0.0027 ppm	0.1237 ppm
Concentration per Run 1	-0.0016 ppm	10.4232 ppm	0.0035 ppm	0.2831 ppm	1.2468 ppm	0.0033 ppm	0.1248 ppm
Concentration per Run 2	0.0008 ppm	10.2831 ppm	0.0025 ppm	0.2884 ppm	1.2430 ppm	0.0018 ppm	0.1236 ppm
Concentration per Run 3	-0.0029 ppm	10.1841 ppm	0.0022 ppm	0.2797 ppm	1.2333 ppm	0.0031 ppm	0.1228 ppm
Concentration RSD	147.8 %	1.2 %	24.6 %	1.5 %	0.6 %	30.3 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3320 ppm	98.9953 %	102.9784 %	93.3245 %	105.0728 %	112.3470 %	106.8274 %
Concentration per Run 1	0.3356 ppm	97.8678 %	102.9377 %	93.0688 %	103.6790 %	112.2398 %	106.8697 %
Concentration per Run 2	0.3320 ppm	99.1651 %	101.9357 %	93.8725 %	105.3562 %	111.4594 %	107.3628 %
Concentration per Run 3	0.3284 ppm	99.9530 %	104.0618 %	93.0323 %	106.1831 %	113.3419 %	106.2498 %
Concentration RSD	1.1 %	1.1 %	1.0 %	0.5 %	1.2 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432924-01D2 WG1935622
Analysis started at: 6/19/2024 8:52:46 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	34.3983 ppm	0.0227 ppm	0.0129 ppm	0.3231 ppm	0.0013 ppm	44.9115 ppm
Concentration per Run 1	0.0006 ppm	34.3894 ppm	0.0235 ppm	0.0131 ppm	0.3223 ppm	0.0013 ppm	44.7508 ppm
Concentration per Run 2	0.0009 ppm	34.4237 ppm	0.0220 ppm	0.0123 ppm	0.3227 ppm	0.0013 ppm	45.0256 ppm
Concentration per Run 3	0.0010 ppm	34.3817 ppm	0.0226 ppm	0.0132 ppm	0.3242 ppm	0.0012 ppm	44.9580 ppm
Concentration RSD	25.7 %	0.1 %	3.4 %	3.8 %	0.3 %	2.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0079 ppm	0.0139 ppm	0.0653 ppm	0.3101 ppm	38.4216 ppm	2.0993 ppm	0.0300 ppm
Concentration per Run 1	0.0081 ppm	0.0145 ppm	0.0661 ppm	0.3129 ppm	38.3872 ppm	2.0912 ppm	0.0322 ppm
Concentration per Run 2	0.0078 ppm	0.0139 ppm	0.0649 ppm	0.3085 ppm	38.4316 ppm	2.1107 ppm	0.0277 ppm
Concentration per Run 3	0.0078 ppm	0.0134 ppm	0.0649 ppm	0.3090 ppm	38.4461 ppm	2.0959 ppm	0.0301 ppm
Concentration RSD	2.1 %	4.1 %	1.1 %	0.8 %	0.1 %	0.5 %	7.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.0831 ppm	0.6215 ppm	0.0089 ppm	0.5753 ppm	0.0560 ppm	0.2529 ppm	0.0028 ppm
Concentration per Run 1	8.1914 ppm	0.6211 ppm	0.0091 ppm	0.5759 ppm	0.0575 ppm	0.2537 ppm	-0.0004 ppm
Concentration per Run 2	8.0504 ppm	0.6229 ppm	0.0088 ppm	0.5745 ppm	0.0552 ppm	0.2506 ppm	0.0035 ppm
Concentration per Run 3	8.0074 ppm	0.6205 ppm	0.0087 ppm	0.5755 ppm	0.0553 ppm	0.2544 ppm	0.0054 ppm
Concentration RSD	1.2 %	0.2 %	1.8 %	0.1 %	2.3 %	0.8 %	105.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	2.8638 ppm	0.0666 ppm	0.2655 ppm	0.5601 ppm	-0.0007 ppm	0.0595 ppm
Concentration per Run 1	0.0029 ppm	2.9181 ppm	0.0679 ppm	0.2651 ppm	0.5686 ppm	0.0010 ppm	0.0598 ppm
Concentration per Run 2	0.0011 ppm	2.8452 ppm	0.0659 ppm	0.2656 ppm	0.5571 ppm	-0.0028 ppm	0.0591 ppm
Concentration per Run 3	0.0033 ppm	2.8281 ppm	0.0661 ppm	0.2659 ppm	0.5546 ppm	-0.0003 ppm	0.0594 ppm
Concentration RSD	49.8 %	1.7 %	1.7 %	0.2 %	1.3 %	287.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1986 ppm	99.4327 %	103.1601 %	96.1798 %	100.4122 %	106.3530 %	101.5058 %
Concentration per Run 1	1.2168 ppm	98.2113 %	102.7868 %	95.7165 %	99.3945 %	105.8723 %	101.0426 %
Concentration per Run 2	1.1923 ppm	99.9366 %	103.4838 %	96.6455 %	100.7295 %	106.9048 %	101.8935 %
Concentration per Run 3	1.1867 ppm	100.1503 %	103.2096 %	96.1773 %	101.1126 %	106.2818 %	101.5813 %
Concentration RSD	1.3 %	1.1 %	0.3 %	0.5 %	0.9 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-01D2 WG1935622
Analysis started at: 6/19/2024 8:56:44 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	73.1463 ppm	0.0604 ppm	0.0029 ppm	0.1888 ppm	0.0036 ppm	2.6077 ppm
Concentration per Run 1	-0.0006 ppm	73.2672 ppm	0.0596 ppm	0.0016 ppm	0.1882 ppm	0.0037 ppm	2.6160 ppm
Concentration per Run 2	-0.0001 ppm	73.1314 ppm	0.0612 ppm	0.0027 ppm	0.1878 ppm	0.0037 ppm	2.6034 ppm
Concentration per Run 3	-0.0003 ppm	73.0403 ppm	0.0603 ppm	0.0044 ppm	0.1905 ppm	0.0036 ppm	2.6037 ppm
Concentration RSD	88.6 %	0.2 %	1.4 %	48.8 %	0.8 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0355 ppm	0.0948 ppm	0.0877 ppm	123.3614 ppm	11.3958 ppm	0.1027 ppm
Concentration per Run 1	0.0003 ppm	0.0360 ppm	0.0962 ppm	0.0885 ppm	123.2550 ppm	11.4823 ppm	0.1041 ppm
Concentration per Run 2	0.0002 ppm	0.0358 ppm	0.0946 ppm	0.0874 ppm	122.7928 ppm	11.2964 ppm	0.1003 ppm
Concentration per Run 3	0.0005 ppm	0.0349 ppm	0.0936 ppm	0.0873 ppm	124.0362 ppm	11.4088 ppm	0.1037 ppm
Concentration RSD	39.6 %	1.7 %	1.4 %	0.8 %	0.5 %	0.8 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.1338 ppm	1.1353 ppm	0.0049 ppm	2.4078 ppm	0.0651 ppm	0.1079 ppm	0.0012 ppm
Concentration per Run 1	19.4110 ppm	1.1346 ppm	0.0051 ppm	2.4059 ppm	0.0666 ppm	0.1066 ppm	0.0006 ppm
Concentration per Run 2	19.0992 ppm	1.1350 ppm	0.0051 ppm	2.4095 ppm	0.0644 ppm	0.1097 ppm	0.0005 ppm
Concentration per Run 3	18.8913 ppm	1.1362 ppm	0.0045 ppm	2.4079 ppm	0.0644 ppm	0.1075 ppm	0.0026 ppm
Concentration RSD	1.4 %	0.1 %	6.6 %	0.1 %	1.9 %	1.5 %	97.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	4.2357 ppm	0.0031 ppm	0.0171 ppm	3.8356 ppm	0.0033 ppm	0.1579 ppm
Concentration per Run 1	-0.0023 ppm	4.2965 ppm	0.0044 ppm	0.0171 ppm	3.8946 ppm	0.0027 ppm	0.1604 ppm
Concentration per Run 2	0.0013 ppm	4.2306 ppm	0.0021 ppm	0.0171 ppm	3.8256 ppm	0.0042 ppm	0.1572 ppm
Concentration per Run 3	-0.0008 ppm	4.1800 ppm	0.0026 ppm	0.0172 ppm	3.7867 ppm	0.0031 ppm	0.1561 ppm
Concentration RSD	313.5 %	1.4 %	38.7 %	0.3 %	1.4 %	23.4 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2152 ppm	102.2585 %	106.0088 %	96.0453 %	109.1977 %	115.4431 %	111.4624 %
Concentration per Run 1	0.2183 ppm	101.1966 %	106.3251 %	96.1461 %	108.0672 %	115.9800 %	111.6164 %
Concentration per Run 2	0.2144 ppm	102.2663 %	105.4213 %	96.1830 %	109.2250 %	114.7168 %	111.2382 %
Concentration per Run 3	0.2129 ppm	103.3127 %	106.2801 %	95.8068 %	110.3008 %	115.6326 %	111.5327 %
Concentration RSD	1.3 %	1.0 %	0.5 %	0.2 %	1.0 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-02D2 WG1935622
Analysis started at: 6/19/2024 9:00:39 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	51.0856 ppm	0.0629 ppm	0.0008 ppm	0.1914 ppm	0.0020 ppm	1.6255 ppm
Concentration per Run 1	-0.0007 ppm	51.0748 ppm	0.0630 ppm	0.0004 ppm	0.1901 ppm	0.0021 ppm	1.6248 ppm
Concentration per Run 2	-0.0005 ppm	51.3532 ppm	0.0642 ppm	0.0007 ppm	0.1926 ppm	0.0020 ppm	1.6271 ppm
Concentration per Run 3	-0.0004 ppm	50.8289 ppm	0.0615 ppm	0.0012 ppm	0.1915 ppm	0.0021 ppm	1.6246 ppm
Concentration RSD	33.9 %	0.5 %	2.2 %	46.8 %	0.6 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0299 ppm	0.0742 ppm	0.0612 ppm	103.0496 ppm	15.4742 ppm	0.0776 ppm
Concentration per Run 1	0.0002 ppm	0.0298 ppm	0.0758 ppm	0.0619 ppm	103.1097 ppm	15.4149 ppm	0.0789 ppm
Concentration per Run 2	0.0003 ppm	0.0302 ppm	0.0735 ppm	0.0611 ppm	103.2956 ppm	15.5482 ppm	0.0780 ppm
Concentration per Run 3	0.0002 ppm	0.0297 ppm	0.0732 ppm	0.0607 ppm	102.7435 ppm	15.4595 ppm	0.0757 ppm
Concentration RSD	37.7 %	0.9 %	1.9 %	1.0 %	0.3 %	0.4 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8524 ppm	0.8616 ppm	0.0027 ppm	1.1861 ppm	0.0615 ppm	0.0362 ppm	-0.0004 ppm
Concentration per Run 1	18.1239 ppm	0.8608 ppm	0.0023 ppm	1.1929 ppm	0.0627 ppm	0.0366 ppm	0.0002 ppm
Concentration per Run 2	17.7594 ppm	0.8639 ppm	0.0032 ppm	1.1816 ppm	0.0613 ppm	0.0371 ppm	0.0010 ppm
Concentration per Run 3	17.6739 ppm	0.8600 ppm	0.0026 ppm	1.1837 ppm	0.0607 ppm	0.0350 ppm	-0.0023 ppm
Concentration RSD	1.3 %	0.2 %	16.9 %	0.5 %	1.7 %	3.0 %	452.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	2.4521 ppm	0.0007 ppm	0.0107 ppm	3.6189 ppm	0.0030 ppm	0.1390 ppm
Concentration per Run 1	-0.0009 ppm	2.5192 ppm	0.0004 ppm	0.0107 ppm	3.6697 ppm	0.0035 ppm	0.1414 ppm
Concentration per Run 2	-0.0027 ppm	2.4285 ppm	0.0008 ppm	0.0106 ppm	3.6074 ppm	0.0030 ppm	0.1382 ppm
Concentration per Run 3	-0.0028 ppm	2.4088 ppm	0.0008 ppm	0.0107 ppm	3.5795 ppm	0.0024 ppm	0.1374 ppm
Concentration RSD	50.1 %	2.4 %	31.0 %	0.5 %	1.3 %	18.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1876 ppm	101.7743 %	105.6406 %	96.8410 %	102.9083 %	108.9936 %	105.5960 %
Concentration per Run 1	0.1921 ppm	100.8721 %	105.8014 %	96.9956 %	102.3978 %	109.3432 %	105.3369 %
Concentration per Run 2	0.1856 ppm	102.4114 %	105.7453 %	96.7393 %	103.4318 %	109.1617 %	105.5368 %
Concentration per Run 3	0.1851 ppm	102.0394 %	105.3750 %	96.7882 %	102.8953 %	108.4759 %	105.9143 %
Concentration RSD	2.1 %	0.8 %	0.2 %	0.1 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432925-03D2 WG1935622
Analysis started at: 6/19/2024 9:04:34 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	78.5639 ppm	0.0920 ppm	0.0010 ppm	0.3441 ppm	0.0032 ppm	7.5942 ppm
Concentration per Run 1	-0.0006 ppm	78.5882 ppm	0.0923 ppm	0.0011 ppm	0.3441 ppm	0.0032 ppm	7.5982 ppm
Concentration per Run 2	-0.0007 ppm	78.7916 ppm	0.0931 ppm	0.0015 ppm	0.3443 ppm	0.0031 ppm	7.6008 ppm
Concentration per Run 3	-0.0004 ppm	78.3120 ppm	0.0907 ppm	0.0005 ppm	0.3438 ppm	0.0033 ppm	7.5834 ppm
Concentration RSD	26.2 %	0.3 %	1.4 %	46.5 %	0.1 %	2.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0424 ppm	0.1110 ppm	0.1195 ppm	146.7036 ppm	21.1471 ppm	0.1110 ppm
Concentration per Run 1	0.0002 ppm	0.0431 ppm	0.1121 ppm	0.1207 ppm	146.6963 ppm	20.9759 ppm	0.1111 ppm
Concentration per Run 2	0.0003 ppm	0.0422 ppm	0.1103 ppm	0.1191 ppm	146.7566 ppm	21.3143 ppm	0.1107 ppm
Concentration per Run 3	0.0004 ppm	0.0420 ppm	0.1105 ppm	0.1187 ppm	146.6577 ppm	21.1511 ppm	0.1112 ppm
Concentration RSD	36.2 %	1.4 %	0.9 %	0.9 %	0.0 %	0.8 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.6678 ppm	1.3094 ppm	0.0050 ppm	2.3017 ppm	0.0914 ppm	0.0646 ppm	0.0006 ppm
Concentration per Run 1	25.9771 ppm	1.3161 ppm	0.0043 ppm	2.3040 ppm	0.0923 ppm	0.0660 ppm	0.0004 ppm
Concentration per Run 2	25.6325 ppm	1.3054 ppm	0.0053 ppm	2.3060 ppm	0.0904 ppm	0.0626 ppm	0.0023 ppm
Concentration per Run 3	25.3937 ppm	1.3067 ppm	0.0055 ppm	2.2952 ppm	0.0914 ppm	0.0651 ppm	-0.0009 ppm
Concentration RSD	1.1 %	0.4 %	12.4 %	0.2 %	1.1 %	2.7 %	256.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	5.1452 ppm	0.0017 ppm	0.0450 ppm	4.9972 ppm	0.0057 ppm	0.1882 ppm
Concentration per Run 1	-0.0009 ppm	5.1671 ppm	0.0032 ppm	0.0449 ppm	5.0588 ppm	0.0059 ppm	0.1904 ppm
Concentration per Run 2	-0.0025 ppm	5.1315 ppm	0.0011 ppm	0.0450 ppm	4.9854 ppm	0.0047 ppm	0.1884 ppm
Concentration per Run 3	0.0002 ppm	5.1371 ppm	0.0007 ppm	0.0452 ppm	4.9474 ppm	0.0064 ppm	0.1858 ppm
Concentration RSD	133.0 %	0.4 %	81.8 %	0.2 %	1.1 %	15.8 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2581 ppm	103.1102 %	105.1210 %	94.8004 %	105.0053 %	110.2517 %	106.8776 %
Concentration per Run 1	0.2609 ppm	102.4506 %	104.9942 %	94.7882 %	104.1773 %	110.4344 %	106.8239 %
Concentration per Run 2	0.2582 ppm	102.9794 %	104.8255 %	94.8405 %	105.0279 %	109.8899 %	106.6864 %
Concentration per Run 3	0.2553 ppm	103.9008 %	105.5432 %	94.7724 %	105.8109 %	110.4310 %	107.1224 %
Concentration RSD	1.1 %	0.7 %	0.4 %	0.0 %	0.8 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-01D2 WG1935622
Analysis started at: 6/19/2024 9:08:29 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	57.6597 ppm	0.0235 ppm	0.0043 ppm	0.3983 ppm	0.0026 ppm	25.9984 ppm
Concentration per Run 1	0.0000 ppm	57.4780 ppm	0.0240 ppm	0.0043 ppm	0.3987 ppm	0.0026 ppm	25.9842 ppm
Concentration per Run 2	-0.0002 ppm	57.8024 ppm	0.0219 ppm	0.0049 ppm	0.3975 ppm	0.0026 ppm	26.0176 ppm
Concentration per Run 3	-0.0004 ppm	57.6988 ppm	0.0245 ppm	0.0039 ppm	0.3988 ppm	0.0026 ppm	25.9932 ppm
Concentration RSD	84.9 %	0.3 %	5.9 %	11.1 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0603 ppm	0.1550 ppm	0.0997 ppm	96.7267 ppm	16.9741 ppm	0.0986 ppm
Concentration per Run 1	0.0010 ppm	0.0611 ppm	0.1559 ppm	0.1011 ppm	96.8363 ppm	16.9857 ppm	0.1006 ppm
Concentration per Run 2	0.0007 ppm	0.0602 ppm	0.1546 ppm	0.0992 ppm	96.6194 ppm	16.8898 ppm	0.0977 ppm
Concentration per Run 3	0.0009 ppm	0.0596 ppm	0.1545 ppm	0.0988 ppm	96.7243 ppm	17.0467 ppm	0.0974 ppm
Concentration RSD	14.2 %	1.2 %	0.5 %	1.2 %	0.1 %	0.5 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	39.7529 ppm	0.8806 ppm	0.0022 ppm	2.1063 ppm	0.1465 ppm	0.0420 ppm	0.0002 ppm
Concentration per Run 1	40.2488 ppm	0.8803 ppm	0.0015 ppm	2.1054 ppm	0.1476 ppm	0.0430 ppm	-0.0003 ppm
Concentration per Run 2	39.6293 ppm	0.8800 ppm	0.0028 ppm	2.1106 ppm	0.1461 ppm	0.0402 ppm	-0.0028 ppm
Concentration per Run 3	39.3805 ppm	0.8817 ppm	0.0023 ppm	2.1029 ppm	0.1458 ppm	0.0427 ppm	0.0036 ppm
Concentration RSD	1.1 %	0.1 %	29.0 %	0.2 %	0.6 %	3.6 %	1,956.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	5.3833 ppm	0.0020 ppm	0.0519 ppm	5.7641 ppm	0.0034 ppm	0.2041 ppm
Concentration per Run 1	0.0000 ppm	5.4762 ppm	0.0018 ppm	0.0521 ppm	5.8297 ppm	0.0045 ppm	0.2070 ppm
Concentration per Run 2	-0.0030 ppm	5.3404 ppm	0.0027 ppm	0.0520 ppm	5.7389 ppm	0.0033 ppm	0.2031 ppm
Concentration per Run 3	0.0002 ppm	5.3332 ppm	0.0015 ppm	0.0518 ppm	5.7235 ppm	0.0024 ppm	0.2021 ppm
Concentration RSD	191.8 %	1.5 %	33.1 %	0.3 %	1.0 %	31.4 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3678 ppm	101.3966 %	104.8162 %	92.2398 %	117.0754 %	123.7497 %	118.8892 %
Concentration per Run 1	0.3727 ppm	100.1816 %	105.2587 %	92.1644 %	115.9721 %	124.7495 %	118.6265 %
Concentration per Run 2	0.3657 ppm	102.0576 %	105.1086 %	91.8643 %	117.6372 %	123.8760 %	118.7613 %
Concentration per Run 3	0.3651 ppm	101.9506 %	104.0813 %	92.6908 %	117.6168 %	122.6235 %	119.2797 %
Concentration RSD	1.2 %	1.0 %	0.6 %	0.5 %	0.8 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-02D2 WG1935622
Analysis started at: 6/19/2024 9:12:24 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	76.4885 ppm	0.0155 ppm	0.0029 ppm	0.6519 ppm	0.0033 ppm	15.9813 ppm
Concentration per Run 1	-0.0004 ppm	76.4693 ppm	0.0148 ppm	0.0026 ppm	0.6480 ppm	0.0033 ppm	15.9854 ppm
Concentration per Run 2	-0.0005 ppm	76.8870 ppm	0.0166 ppm	0.0023 ppm	0.6594 ppm	0.0032 ppm	15.9828 ppm
Concentration per Run 3	-0.0006 ppm	76.1094 ppm	0.0149 ppm	0.0037 ppm	0.6484 ppm	0.0034 ppm	15.9758 ppm
Concentration RSD	25.4 %	0.5 %	6.6 %	26.6 %	1.0 %	3.0 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0691 ppm	0.2148 ppm	0.1408 ppm	119.1164 ppm	35.2999 ppm	0.1221 ppm
Concentration per Run 1	0.0004 ppm	0.0690 ppm	0.2151 ppm	0.1412 ppm	119.1334 ppm	35.2151 ppm	0.1237 ppm
Concentration per Run 2	0.0005 ppm	0.0694 ppm	0.2142 ppm	0.1411 ppm	119.4137 ppm	35.7145 ppm	0.1223 ppm
Concentration per Run 3	0.0005 ppm	0.0688 ppm	0.2150 ppm	0.1401 ppm	118.8022 ppm	34.9700 ppm	0.1202 ppm
Concentration RSD	6.2 %	0.4 %	0.2 %	0.4 %	0.3 %	1.1 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.5727 ppm	1.0117 ppm	-0.0006 ppm	1.2535 ppm	0.2026 ppm	0.0321 ppm	0.0000 ppm
Concentration per Run 1	49.7327 ppm	1.0142 ppm	-0.0006 ppm	1.2515 ppm	0.2031 ppm	0.0320 ppm	-0.0005 ppm
Concentration per Run 2	49.4561 ppm	1.0132 ppm	-0.0005 ppm	1.2550 ppm	0.2019 ppm	0.0307 ppm	-0.0008 ppm
Concentration per Run 3	49.5294 ppm	1.0076 ppm	-0.0008 ppm	1.2541 ppm	0.2028 ppm	0.0337 ppm	0.0012 ppm
Concentration RSD	0.3 %	0.4 %	18.9 %	0.1 %	0.3 %	4.7 %	10,161.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	2.7344 ppm	0.0028 ppm	0.0456 ppm	9.8433 ppm	0.0071 ppm	0.2295 ppm
Concentration per Run 1	-0.0015 ppm	2.7348 ppm	0.0030 ppm	0.0455 ppm	9.8689 ppm	0.0065 ppm	0.2308 ppm
Concentration per Run 2	0.0013 ppm	2.7412 ppm	0.0027 ppm	0.0456 ppm	9.8361 ppm	0.0081 ppm	0.2277 ppm
Concentration per Run 3	-0.0019 ppm	2.7274 ppm	0.0028 ppm	0.0458 ppm	9.8249 ppm	0.0068 ppm	0.2301 ppm
Concentration RSD	243.9 %	0.3 %	4.4 %	0.3 %	0.2 %	12.1 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4132 ppm	104.3463 %	104.7228 %	90.0098 %	110.2109 %	114.0412 %	111.2597 %
Concentration per Run 1	0.4136 ppm	104.0167 %	104.2723 %	90.1216 %	109.8448 %	113.4531 %	111.5301 %
Concentration per Run 2	0.4112 ppm	104.7352 %	104.6792 %	89.9546 %	110.6702 %	114.0402 %	111.2088 %
Concentration per Run 3	0.4147 ppm	104.2871 %	105.2170 %	89.9533 %	110.1176 %	114.6303 %	111.0402 %
Concentration RSD	0.4 %	0.3 %	0.5 %	0.1 %	0.4 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 9:16:21 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5028 ppm	0.4933 ppm	0.4807 ppm	0.4978 ppm	0.5055 ppm	0.5099 ppm	0.4923 ppm
Concentration per Run 1	0.5088 ppm	0.4965 ppm	0.4782 ppm	0.5022 ppm	0.5048 ppm	0.5107 ppm	0.4940 ppm
Concentration per Run 2	0.5012 ppm	0.4809 ppm	0.4817 ppm	0.4963 ppm	0.5071 ppm	0.5107 ppm	0.4939 ppm
Concentration per Run 3	0.4983 ppm	0.5026 ppm	0.4821 ppm	0.4949 ppm	0.5046 ppm	0.5082 ppm	0.4890 ppm
Recovery Percentage 1	100.553 %	98.669 %	96.136 %	99.558 %	101.103 %	101.973 %	98.459 %
Concentration RSD	1.1 %	2.3 %	0.4 %	0.8 %	0.3 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5063 ppm	0.5103 ppm	0.4968 ppm	0.4918 ppm	0.5151 ppm	5.3323 ppm	0.5029 ppm
Concentration per Run 1	0.5124 ppm	0.5168 ppm	0.5028 ppm	0.4971 ppm	0.5161 ppm	5.3957 ppm	0.5072 ppm
Concentration per Run 2	0.5044 ppm	0.5086 ppm	0.4948 ppm	0.4925 ppm	0.5121 ppm	5.3010 ppm	0.4987 ppm
Concentration per Run 3	0.5021 ppm	0.5055 ppm	0.4926 ppm	0.4858 ppm	0.5170 ppm	5.3003 ppm	0.5028 ppm
Recovery Percentage 1	101.258 %	102.061 %	99.350 %	98.358 %	103.011 %	106.647 %	100.577 %
Concentration RSD	1.1 %	1.1 %	1.1 %	1.2 %	0.5 %	1.0 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4946 ppm	0.4977 ppm	0.4993 ppm	10.3712 ppm	0.5114 ppm	0.4945 ppm	0.4970 ppm
Concentration per Run 1	0.4998 ppm	0.4975 ppm	0.5005 ppm	10.3499 ppm	0.5183 ppm	0.4951 ppm	0.5034 ppm
Concentration per Run 2	0.4937 ppm	0.4984 ppm	0.4983 ppm	10.3883 ppm	0.5093 ppm	0.4950 ppm	0.4987 ppm
Concentration per Run 3	0.4902 ppm	0.4971 ppm	0.4990 ppm	10.3753 ppm	0.5066 ppm	0.4935 ppm	0.4888 ppm
Recovery Percentage 1	98.914 %	99.530 %	99.856 %	103.712 %	102.282 %	98.907 %	99.394 %
Concentration RSD	1.0 %	0.1 %	0.2 %	0.2 %	1.2 %	0.2 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4866 ppm	5.2080 ppm	0.5229 ppm	0.5008 ppm	0.5050 ppm	0.4857 ppm	0.4980 ppm
Concentration per Run 1	0.4818 ppm	5.2595 ppm	0.5282 ppm	0.5002 ppm	0.5122 ppm	0.4832 ppm	0.5045 ppm
Concentration per Run 2	0.4923 ppm	5.1896 ppm	0.5221 ppm	0.5026 ppm	0.5041 ppm	0.4883 ppm	0.4964 ppm
Concentration per Run 3	0.4857 ppm	5.1749 ppm	0.5186 ppm	0.4995 ppm	0.4989 ppm	0.4857 ppm	0.4930 ppm
Recovery Percentage 1	97.322 %	99.201 %	104.590 %	100.158 %	101.007 %	97.147 %	99.593 %
Concentration RSD	1.1 %	0.9 %	0.9 %	0.3 %	1.3 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5117 ppm	100.8791 %	102.8331 %	99.4757 %	95.7716 %	99.7529 %	97.1777 %
Concentration per Run 1	0.5190 ppm	99.6670 %	102.2699 %	99.3219 %	94.5933 %	99.4601 %	97.2408 %
Concentration per Run 2	0.5085 ppm	101.5403 %	102.6739 %	99.4616 %	96.4553 %	99.4087 %	96.9112 %
Concentration per Run 3	0.5077 ppm	101.4300 %	103.5554 %	99.6435 %	96.2662 %	100.3898 %	97.3810 %
Recovery Percentage 1	102.348 %						
Concentration RSD	1.2 %	1.0 %	0.6 %	0.2 %	1.1 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 9:20:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0029 ppm	-0.0020 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0052 ppm	-0.0022 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	-0.0001 ppm	0.0033 ppm	-0.0015 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0022 ppm	-0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-1.192 %	2.898 %	-66.727 %	-1.491 %	-2.381 %	0.244 %	-0.807 %
Concentration RSD	37.8 %	85.1 %	20.3 %	85.4 %	24.4 %	327.3 %	136.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0035 ppm	-0.0088 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0022 ppm	0.0059 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0004 ppm	0.0019 ppm	0.0097 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0063 ppm	-0.0421 ppm	-0.0005 ppm
Recovery Percentage 1	1.366 %	1.880 %	-0.436 %	3.956 %	6.923 %	-0.353 %	-1.038 %
Concentration RSD	100.5 %	49.6 %	1,202.7 %	23.5 %	70.6 %	326.7 %	315.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0058 ppm	-0.0001 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 1	-0.0013 ppm	0.0001 ppm	0.0007 ppm	0.0067 ppm	0.0004 ppm	-0.0012 ppm	-0.0025 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	-0.0005 ppm	-0.0006 ppm	-0.0016 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0009 ppm	0.0093 ppm	-0.0002 ppm	-0.0006 ppm	0.0026 ppm
Recovery Percentage 1	-0.156 %	1.492 %	1.464 %	0.288 %	-0.474 %	-8.339 %	-1.027 %
Concentration RSD	657.2 %	72.0 %	22.8 %	72.0 %	368.5 %	41.6 %	526.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0009 ppm	-0.0015 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	0.0007 ppm	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 2	-0.0046 ppm	0.0002 ppm	-0.0013 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	0.0017 ppm	-0.0022 ppm	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-22.865 %	0.171 %	-3.043 %	0.061 %	-2.324 %	-3.166 %	-0.246 %
Concentration RSD	88.7 %	89.7 %	41.1 %	1,014.0 %	45.6 %	157.6 %	347.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	94.1776 %	98.9344 %	96.1649 %	95.6693 %	100.1975 %	97.9947 %
Concentration per Run 1	0.0004 ppm	92.5141 %	98.4627 %	95.6717 %	94.5533 %	99.6759 %	97.9167 %
Concentration per Run 2	0.0002 ppm	94.2440 %	99.1837 %	96.1944 %	95.8568 %	100.7745 %	98.0851 %
Concentration per Run 3	0.0003 ppm	95.7746 %	99.1569 %	96.6287 %	96.5978 %	100.1421 %	97.9823 %
Recovery Percentage 1	5.817 %						
Concentration RSD	25.6 %	1.7 %	0.4 %	0.5 %	1.1 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-1 WG1936048
Analysis started at: 6/19/2024 9:27:59 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0149 ppm	0.0002 ppm	-0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0152 ppm
Concentration per Run 1	0.0000 ppm	0.0139 ppm	-0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 2	0.0003 ppm	0.0133 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0153 ppm
Concentration per Run 3	0.0001 ppm	0.0176 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0158 ppm
Recovery Percentage 1	2.129 %	14.949 %	7.538 %	-1.846 %	-1.637 %	0.484 %	15.242 %
Concentration RSD	72.9 %	15.4 %	419.3 %	130.7 %	40.7 %	23.9 %	4.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0470 ppm	0.0031 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0006 ppm	-0.0004 ppm	0.0469 ppm	-0.0021 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0004 ppm	0.0473 ppm	0.0151 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0469 ppm	-0.0039 ppm	0.0016 ppm
Recovery Percentage 1	0.129 %	-0.442 %	4.218 %	-4.756 %	94.060 %	0.122 %	12.805 %
Concentration RSD	378.7 %	426.1 %	66.4 %	30.8 %	0.5 %	344.6 %	25.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0046 ppm	0.0006 ppm	-0.0002 ppm	0.0162 ppm	-0.0005 ppm	-0.0014 ppm	-0.0025 ppm
Concentration per Run 1	0.0049 ppm	0.0007 ppm	-0.0002 ppm	0.0140 ppm	-0.0008 ppm	-0.0014 ppm	-0.0018 ppm
Concentration per Run 2	0.0039 ppm	0.0007 ppm	-0.0003 ppm	0.0220 ppm	-0.0004 ppm	-0.0009 ppm	-0.0044 ppm
Concentration per Run 3	0.0051 ppm	0.0005 ppm	-0.0001 ppm	0.0127 ppm	-0.0003 ppm	-0.0020 ppm	-0.0014 ppm
Recovery Percentage 1	4.641 %	6.178 %	-0.340 %	0.811 %	-1.856 %	-13.964 %	-5.070 %
Concentration RSD	14.4 %	22.4 %	52.9 %	31.0 %	55.2 %	38.3 %	63.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0105 ppm	0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	0.0129 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0024 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	0.0097 ppm	0.0004 ppm	-0.0001 ppm	0.0005 ppm	-0.0011 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0088 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-6.361 %	2.095 %	0.324 %	0.726 %	5.083 %	1.776 %	1.540 %
Concentration RSD	109.3 %	20.6 %	197.5 %	262.7 %	4.1 %	509.3 %	135.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	118.7688 %	107.0780 %	112.0656 %	101.2886 %	100.3736 %	101.9723 %
Concentration per Run 1	0.0010 ppm	121.2015 %	108.3041 %	113.0365 %	101.4794 %	100.9530 %	101.3618 %
Concentration per Run 2	0.0008 ppm	118.2940 %	106.4703 %	112.1110 %	100.9385 %	99.8787 %	102.2617 %
Concentration per Run 3	0.0009 ppm	116.8110 %	106.4596 %	111.0493 %	101.4480 %	100.2892 %	102.2934 %
Recovery Percentage 1	18.471 %						
Concentration RSD	11.2 %	1.9 %	1.0 %	0.9 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-2D2 WG1936048
Analysis started at: 6/19/2024 9:32:10 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0562 ppm	2.2579 ppm	0.1320 ppm	1.0986 ppm	2.1965 ppm	0.0554 ppm	10.7369 ppm
Concentration per Run 1	0.0570 ppm	2.2769 ppm	0.1331 ppm	1.1157 ppm	2.2158 ppm	0.0557 ppm	10.7878 ppm
Concentration per Run 2	0.0561 ppm	2.2555 ppm	0.1319 ppm	1.0988 ppm	2.1890 ppm	0.0553 ppm	10.7104 ppm
Concentration per Run 3	0.0555 ppm	2.2412 ppm	0.1309 ppm	1.0811 ppm	2.1847 ppm	0.0551 ppm	10.7123 ppm
Concentration RSD	1.3 %	0.8 %	0.8 %	1.6 %	0.8 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0592 ppm	0.5623 ppm	0.2241 ppm	0.2796 ppm	1.1099 ppm	11.3326 ppm	-0.0009 ppm
Concentration per Run 1	0.0602 ppm	0.5713 ppm	0.2276 ppm	0.2849 ppm	1.1208 ppm	11.3837 ppm	0.0004 ppm
Concentration per Run 2	0.0591 ppm	0.5626 ppm	0.2235 ppm	0.2786 ppm	1.1072 ppm	11.3831 ppm	0.0000 ppm
Concentration per Run 3	0.0584 ppm	0.5531 ppm	0.2212 ppm	0.2751 ppm	1.1017 ppm	11.2311 ppm	-0.0030 ppm
Concentration RSD	1.5 %	1.6 %	1.4 %	1.8 %	0.9 %	0.8 %	218.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9131 ppm	0.5414 ppm	1.1072 ppm	11.2521 ppm	0.5514 ppm	0.5911 ppm	0.5661 ppm
Concentration per Run 1	11.1044 ppm	0.5429 ppm	1.1150 ppm	11.2937 ppm	0.5603 ppm	0.5956 ppm	0.5716 ppm
Concentration per Run 2	10.9131 ppm	0.5415 ppm	1.1084 ppm	11.2795 ppm	0.5515 ppm	0.5917 ppm	0.5682 ppm
Concentration per Run 3	10.7217 ppm	0.5399 ppm	1.0982 ppm	11.1830 ppm	0.5425 ppm	0.5858 ppm	0.5584 ppm
Concentration RSD	1.8 %	0.3 %	0.8 %	0.5 %	1.6 %	0.8 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1301 ppm	1.1088 ppm	1.1164 ppm	1.0347 ppm	1.1059 ppm	0.1310 ppm	0.5664 ppm
Concentration per Run 1	0.1310 ppm	1.1245 ppm	1.1347 ppm	1.0420 ppm	1.1248 ppm	0.1316 ppm	0.5760 ppm
Concentration per Run 2	0.1295 ppm	1.1011 ppm	1.1115 ppm	1.0353 ppm	1.1030 ppm	0.1311 ppm	0.5681 ppm
Concentration per Run 3	0.1298 ppm	1.1007 ppm	1.1029 ppm	1.0269 ppm	1.0899 ppm	0.1303 ppm	0.5551 ppm
Concentration RSD	0.6 %	1.2 %	1.5 %	0.7 %	1.6 %	0.5 %	1.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5601 ppm	98.3876 %	101.3158 %	96.8386 %	94.2155 %	98.2690 %	96.0536 %
Concentration per Run 1	0.5719 ppm	97.0287 %	101.8379 %	97.5048 %	93.1627 %	98.9238 %	96.5418 %
Concentration per Run 2	0.5602 ppm	98.2013 %	101.3073 %	95.9889 %	94.1197 %	98.2038 %	95.7221 %
Concentration per Run 3	0.5482 ppm	99.9328 %	100.8023 %	97.0222 %	95.3642 %	97.6793 %	95.8968 %
Concentration RSD	2.1 %	1.5 %	0.5 %	0.8 %	1.2 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-03D2 WG1935622
Analysis started at: 6/19/2024 9:36:07 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	38.6031 ppm	0.0110 ppm	0.0026 ppm	0.2684 ppm	0.0016 ppm	10.3787 ppm
Concentration per Run 1	-0.0001 ppm	38.6942 ppm	0.0117 ppm	0.0034 ppm	0.2676 ppm	0.0016 ppm	10.3946 ppm
Concentration per Run 2	-0.0001 ppm	38.5564 ppm	0.0092 ppm	0.0024 ppm	0.2688 ppm	0.0017 ppm	10.3779 ppm
Concentration per Run 3	-0.0008 ppm	38.5587 ppm	0.0120 ppm	0.0021 ppm	0.2688 ppm	0.0017 ppm	10.3635 ppm
Concentration RSD	135.9 %	0.2 %	14.1 %	25.8 %	0.3 %	2.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0289 ppm	0.0973 ppm	0.0536 ppm	72.3207 ppm	13.5137 ppm	0.0584 ppm
Concentration per Run 1	0.0003 ppm	0.0294 ppm	0.0985 ppm	0.0541 ppm	72.2182 ppm	13.4061 ppm	0.0582 ppm
Concentration per Run 2	0.0003 ppm	0.0291 ppm	0.0970 ppm	0.0534 ppm	72.3536 ppm	13.5837 ppm	0.0577 ppm
Concentration per Run 3	0.0003 ppm	0.0283 ppm	0.0964 ppm	0.0534 ppm	72.3903 ppm	13.5514 ppm	0.0594 ppm
Concentration RSD	10.0 %	1.9 %	1.1 %	0.7 %	0.1 %	0.7 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.1743 ppm	0.5975 ppm	0.0026 ppm	0.7023 ppm	0.0688 ppm	0.0202 ppm	0.0001 ppm
Concentration per Run 1	22.4707 ppm	0.5961 ppm	0.0029 ppm	0.7061 ppm	0.0696 ppm	0.0204 ppm	-0.0025 ppm
Concentration per Run 2	22.0928 ppm	0.5985 ppm	0.0021 ppm	0.7044 ppm	0.0695 ppm	0.0203 ppm	0.0031 ppm
Concentration per Run 3	21.9593 ppm	0.5979 ppm	0.0029 ppm	0.6964 ppm	0.0675 ppm	0.0201 ppm	-0.0005 ppm
Concentration RSD	1.2 %	0.2 %	17.3 %	0.7 %	1.7 %	0.6 %	4,686.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	2.2290 ppm	0.0019 ppm	0.0269 ppm	3.7691 ppm	0.0047 ppm	0.1486 ppm
Concentration per Run 1	-0.0042 ppm	2.2400 ppm	0.0023 ppm	0.0270 ppm	3.8026 ppm	0.0056 ppm	0.1499 ppm
Concentration per Run 2	-0.0020 ppm	2.2218 ppm	0.0018 ppm	0.0267 ppm	3.7675 ppm	0.0042 ppm	0.1481 ppm
Concentration per Run 3	-0.0027 ppm	2.2252 ppm	0.0016 ppm	0.0269 ppm	3.7371 ppm	0.0043 ppm	0.1477 ppm
Concentration RSD	37.2 %	0.4 %	19.9 %	0.5 %	0.9 %	17.1 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1928 ppm	103.4234 %	104.3005 %	97.6426 %	109.3308 %	113.3059 %	110.8340 %
Concentration per Run 1	0.1953 ppm	101.4220 %	103.7329 %	98.2594 %	107.4170 %	112.9340 %	111.1598 %
Concentration per Run 2	0.1921 ppm	104.1170 %	104.7809 %	97.3600 %	109.9365 %	114.1020 %	110.6331 %
Concentration per Run 3	0.1909 ppm	104.7313 %	104.3877 %	97.3086 %	110.6389 %	112.8816 %	110.7091 %
Concentration RSD	1.2 %	1.7 %	0.5 %	0.5 %	1.5 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-04D2 WG1935622
Analysis started at: 6/19/2024 9:40:04 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	28.1116 ppm	0.0221 ppm	0.0015 ppm	0.2358 ppm	0.0007 ppm	6.3097 ppm
Concentration per Run 1	-0.0002 ppm	28.3241 ppm	0.0206 ppm	0.0017 ppm	0.2370 ppm	0.0007 ppm	6.3136 ppm
Concentration per Run 2	-0.0001 ppm	27.8240 ppm	0.0244 ppm	0.0025 ppm	0.2326 ppm	0.0008 ppm	6.3353 ppm
Concentration per Run 3	-0.0004 ppm	28.1866 ppm	0.0212 ppm	0.0002 ppm	0.2378 ppm	0.0007 ppm	6.2803 ppm
Concentration RSD	84.2 %	0.9 %	9.3 %	81.3 %	1.2 %	9.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0235 ppm	0.0742 ppm	0.0365 ppm	58.5973 ppm	8.8219 ppm	0.0447 ppm
Concentration per Run 1	0.0003 ppm	0.0238 ppm	0.0752 ppm	0.0366 ppm	58.4914 ppm	8.9107 ppm	0.0452 ppm
Concentration per Run 2	0.0003 ppm	0.0230 ppm	0.0738 ppm	0.0368 ppm	58.8533 ppm	8.6769 ppm	0.0421 ppm
Concentration per Run 3	0.0004 ppm	0.0237 ppm	0.0735 ppm	0.0361 ppm	58.4472 ppm	8.8781 ppm	0.0467 ppm
Concentration RSD	1.8 %	1.7 %	1.3 %	1.0 %	0.4 %	1.4 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5220 ppm	0.4090 ppm	0.0007 ppm	0.4570 ppm	0.0549 ppm	0.0117 ppm	0.0010 ppm
Concentration per Run 1	14.7360 ppm	0.4095 ppm	0.0012 ppm	0.4494 ppm	0.0547 ppm	0.0104 ppm	0.0051 ppm
Concentration per Run 2	14.4795 ppm	0.4082 ppm	0.0004 ppm	0.4745 ppm	0.0543 ppm	0.0130 ppm	0.0020 ppm
Concentration per Run 3	14.3504 ppm	0.4094 ppm	0.0006 ppm	0.4470 ppm	0.0555 ppm	0.0117 ppm	-0.0040 ppm
Concentration RSD	1.4 %	0.2 %	56.8 %	3.3 %	1.1 %	11.3 %	444.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	1.5837 ppm	0.0009 ppm	0.0234 ppm	2.9208 ppm	0.0021 ppm	0.0777 ppm
Concentration per Run 1	-0.0032 ppm	1.5983 ppm	0.0014 ppm	0.0230 ppm	2.9594 ppm	0.0027 ppm	0.0787 ppm
Concentration per Run 2	0.0003 ppm	1.5793 ppm	0.0005 ppm	0.0240 ppm	2.9085 ppm	0.0017 ppm	0.0772 ppm
Concentration per Run 3	-0.0040 ppm	1.5735 ppm	0.0007 ppm	0.0232 ppm	2.8943 ppm	0.0020 ppm	0.0771 ppm
Concentration RSD	100.8 %	0.8 %	51.2 %	2.1 %	1.2 %	24.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1531 ppm	100.9621 %	103.4931 %	97.0932 %	108.0164 %	113.1367 %	110.6763 %
Concentration per Run 1	0.1549 ppm	99.4179 %	103.1323 %	97.2782 %	106.6546 %	112.5357 %	110.8090 %
Concentration per Run 2	0.1530 ppm	101.0456 %	102.8758 %	97.3090 %	108.0979 %	113.0172 %	110.9180 %
Concentration per Run 3	0.1515 ppm	102.4229 %	104.4713 %	96.6924 %	109.2967 %	113.8571 %	110.3019 %
Concentration RSD	1.1 %	1.5 %	0.8 %	0.4 %	1.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432996-07D2 WG1935622
Analysis started at: 6/19/2024 9:44:00 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	94.8729 ppm	0.0219 ppm	0.0095 ppm	0.7377 ppm	0.0050 ppm	95.3560 ppm
Concentration per Run 1	-0.0006 ppm	94.4150 ppm	0.0201 ppm	0.0097 ppm	0.7297 ppm	0.0052 ppm	95.5180 ppm
Concentration per Run 2	-0.0012 ppm	94.8305 ppm	0.0238 ppm	0.0095 ppm	0.7424 ppm	0.0049 ppm	95.2031 ppm
Concentration per Run 3	-0.0007 ppm	95.3730 ppm	0.0217 ppm	0.0093 ppm	0.7411 ppm	0.0049 ppm	95.3470 ppm
Concentration RSD	38.7 %	0.5 %	8.3 %	2.1 %	0.9 %	3.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0945 ppm	0.2470 ppm	0.2763 ppm	163.8722 ppm	38.1050 ppm	0.1444 ppm
Concentration per Run 1	0.0012 ppm	0.0951 ppm	0.2508 ppm	0.2797 ppm	163.8620 ppm	37.7275 ppm	0.1427 ppm
Concentration per Run 2	0.0010 ppm	0.0945 ppm	0.2456 ppm	0.2745 ppm	163.9207 ppm	38.3776 ppm	0.1449 ppm
Concentration per Run 3	0.0012 ppm	0.0938 ppm	0.2447 ppm	0.2748 ppm	163.8338 ppm	38.2100 ppm	0.1457 ppm
Concentration RSD	10.9 %	0.7 %	1.3 %	1.1 %	0.0 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	101.3337 ppm	1.6724 ppm	0.0036 ppm	1.6767 ppm	0.2291 ppm	0.0721 ppm	0.0036 ppm
Concentration per Run 1	102.7634 ppm	1.6692 ppm	0.0035 ppm	1.6988 ppm	0.2330 ppm	0.0727 ppm	0.0021 ppm
Concentration per Run 2	100.8449 ppm	1.6739 ppm	0.0035 ppm	1.6661 ppm	0.2287 ppm	0.0729 ppm	0.0052 ppm
Concentration per Run 3	100.3926 ppm	1.6741 ppm	0.0038 ppm	1.6654 ppm	0.2256 ppm	0.0707 ppm	0.0033 ppm
Concentration RSD	1.2 %	0.2 %	5.3 %	1.1 %	1.6 %	1.7 %	43.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	3.1343 ppm	0.0040 ppm	0.1071 ppm	9.5746 ppm	0.0091 ppm	0.3167 ppm
Concentration per Run 1	-0.0006 ppm	3.1832 ppm	0.0050 ppm	0.1077 ppm	9.7095 ppm	0.0081 ppm	0.3188 ppm
Concentration per Run 2	-0.0001 ppm	3.1295 ppm	0.0031 ppm	0.1069 ppm	9.5511 ppm	0.0103 ppm	0.3177 ppm
Concentration per Run 3	0.0001 ppm	3.0900 ppm	0.0039 ppm	0.1068 ppm	9.4632 ppm	0.0090 ppm	0.3136 ppm
Concentration RSD	169.1 %	1.5 %	23.7 %	0.4 %	1.3 %	12.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5226 ppm	104.2843 %	106.3252 %	88.6109 %	125.5466 %	132.8985 %	127.0658 %
Concentration per Run 1	0.5301 ppm	103.0336 %	105.2979 %	88.6243 %	124.4725 %	131.8718 %	127.2147 %
Concentration per Run 2	0.5205 ppm	104.6967 %	106.7518 %	88.5723 %	125.5619 %	133.0124 %	126.7118 %
Concentration per Run 3	0.5173 ppm	105.1225 %	106.9258 %	88.6361 %	126.6054 %	133.8114 %	127.2707 %
Concentration RSD	1.3 %	1.1 %	0.8 %	0.0 %	0.8 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434073-04D2 WG1936048
Analysis started at: 6/19/2024 9:47:57 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0031 ppm	43.2599 ppm	0.0305 ppm	0.0437 ppm	2.1028 ppm	0.0014 ppm	456.3477 ppm
Concentration per Run 1	0.0032 ppm	43.3564 ppm	0.0275 ppm	0.0430 ppm	2.0997 ppm	0.0015 ppm	455.9551 ppm
Concentration per Run 2	0.0032 ppm	43.1395 ppm	0.0327 ppm	0.0431 ppm	2.0952 ppm	0.0014 ppm	456.9378 ppm
Concentration per Run 3	0.0029 ppm	43.2839 ppm	0.0312 ppm	0.0449 ppm	2.1135 ppm	0.0014 ppm	456.1501 ppm
Concentration RSD	5.9 %	0.3 %	8.7 %	2.5 %	0.5 %	2.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0237 ppm	6.3113 ppm	0.3935 ppm	11.2084 ppm	176.7677 ppm	4.1437 ppm	1.7194 ppm
Concentration per Run 1	0.0241 ppm	6.3753 ppm	0.3985 ppm	11.3542 ppm	176.9249 ppm	4.1353 ppm	1.7034 ppm
Concentration per Run 2	0.0237 ppm	6.2998 ppm	0.3927 ppm	11.1759 ppm	176.1641 ppm	4.1311 ppm	1.7128 ppm
Concentration per Run 3	0.0234 ppm	6.2587 ppm	0.3892 ppm	11.0951 ppm	177.2141 ppm	4.1646 ppm	1.7421 ppm
Concentration RSD	1.5 %	0.9 %	1.2 %	1.2 %	0.3 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	142.9433 ppm	3.4167 ppm	0.0254 ppm	1.4269 ppm	29.7007 ppm	0.4172 ppm	0.1295 ppm
Concentration per Run 1	144.8000 ppm	3.4133 ppm	0.0260 ppm	1.4286 ppm	30.1380 ppm	0.4198 ppm	0.1281 ppm
Concentration per Run 2	142.7375 ppm	3.4199 ppm	0.0247 ppm	1.4270 ppm	29.6349 ppm	0.4160 ppm	0.1292 ppm
Concentration per Run 3	141.2926 ppm	3.4169 ppm	0.0254 ppm	1.4253 ppm	29.3292 ppm	0.4158 ppm	0.1312 ppm
Concentration RSD	1.2 %	0.1 %	2.4 %	0.1 %	1.4 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0058 ppm	6.0787 ppm	0.2119 ppm	0.4645 ppm	1.0055 ppm	0.0033 ppm	0.0976 ppm
Concentration per Run 1	-0.0062 ppm	6.1748 ppm	0.2151 ppm	0.4671 ppm	1.0200 ppm	0.0042 ppm	0.0984 ppm
Concentration per Run 2	-0.0071 ppm	6.0062 ppm	0.2115 ppm	0.4621 ppm	0.9996 ppm	0.0034 ppm	0.0971 ppm
Concentration per Run 3	-0.0040 ppm	6.0550 ppm	0.2091 ppm	0.4642 ppm	0.9968 ppm	0.0023 ppm	0.0973 ppm
Concentration RSD	27.4 %	1.4 %	1.4 %	0.5 %	1.3 %	30.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9486 ppm	96.8788 %	102.8417 %	87.4625 %	102.8149 %	112.7083 %	101.7231 %
Concentration per Run 1	2.9938 ppm	95.9375 %	102.3898 %	87.2883 %	101.9862 %	112.3993 %	101.5631 %
Concentration per Run 2	2.9417 ppm	96.8478 %	102.9142 %	87.3848 %	102.8406 %	112.6037 %	101.4041 %
Concentration per Run 3	2.9104 ppm	97.8511 %	103.2212 %	87.7144 %	103.6178 %	113.1220 %	102.2020 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.3 %	0.8 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-3D2 WG1936048
Analysis started at: 6/19/2024 9:51:55 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0567 ppm	50.7041 ppm	0.1767 ppm	1.0644 ppm	5.0658 ppm	0.0554 ppm	445.6495 ppm
Concentration per Run 1	0.0575 ppm	50.7637 ppm	0.1760 ppm	1.0729 ppm	5.0720 ppm	0.0555 ppm	446.1382 ppm
Concentration per Run 2	0.0566 ppm	50.7436 ppm	0.1771 ppm	1.0673 ppm	5.0573 ppm	0.0554 ppm	445.6870 ppm
Concentration per Run 3	0.0561 ppm	50.6051 ppm	0.1769 ppm	1.0529 ppm	5.0682 ppm	0.0553 ppm	445.1232 ppm
Concentration RSD	1.2 %	0.2 %	0.3 %	1.0 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0812 ppm	8.8514 ppm	0.7404 ppm	15.7426 ppm	378.0819 ppm	15.7554 ppm	2.2641 ppm
Concentration per Run 1	0.0817 ppm	8.9345 ppm	0.7488 ppm	15.9168 ppm	379.0932 ppm	15.8261 ppm	2.2698 ppm
Concentration per Run 2	0.0814 ppm	8.8477 ppm	0.7393 ppm	15.6864 ppm	377.6659 ppm	15.6607 ppm	2.2446 ppm
Concentration per Run 3	0.0804 ppm	8.7718 ppm	0.7330 ppm	15.6247 ppm	377.4867 ppm	15.7794 ppm	2.2780 ppm
Concentration RSD	0.8 %	0.9 %	1.1 %	1.0 %	0.2 %	0.5 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	138.5820 ppm	5.6843 ppm	1.0493 ppm	12.9156 ppm	42.2701 ppm	1.1035 ppm	0.7243 ppm
Concentration per Run 1	139.9440 ppm	5.6904 ppm	1.0498 ppm	12.9153 ppm	42.7251 ppm	1.1093 ppm	0.7321 ppm
Concentration per Run 2	138.3533 ppm	5.6843 ppm	1.0491 ppm	12.9524 ppm	42.1971 ppm	1.0977 ppm	0.7273 ppm
Concentration per Run 3	137.4487 ppm	5.6781 ppm	1.0491 ppm	12.8793 ppm	41.8883 ppm	1.1035 ppm	0.7135 ppm
Concentration RSD	0.9 %	0.1 %	0.0 %	0.3 %	1.0 %	0.5 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1086 ppm	9.3619 ppm	1.3604 ppm	1.5342 ppm	2.1628 ppm	0.1323 ppm	0.6371 ppm
Concentration per Run 1	0.1078 ppm	9.4859 ppm	1.3756 ppm	1.5361 ppm	2.1864 ppm	0.1315 ppm	0.6430 ppm
Concentration per Run 2	0.1083 ppm	9.3507 ppm	1.3576 ppm	1.5359 ppm	2.1566 ppm	0.1330 ppm	0.6361 ppm
Concentration per Run 3	0.1097 ppm	9.2491 ppm	1.3478 ppm	1.5307 ppm	2.1454 ppm	0.1325 ppm	0.6323 ppm
Concentration RSD	0.9 %	1.3 %	1.0 %	0.2 %	1.0 %	0.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.6391 ppm	96.0642 %	101.1620 %	82.0655 %	100.6321 %	110.3684 %	98.3282 %
Concentration per Run 1	3.6801 ppm	95.4691 %	100.8873 %	82.4776 %	99.7244 %	110.1166 %	98.6625 %
Concentration per Run 2	3.6360 ppm	96.3617 %	101.6573 %	82.3064 %	101.0337 %	111.0437 %	98.3207 %
Concentration per Run 3	3.6012 ppm	96.3617 %	100.9416 %	81.4123 %	101.1381 %	109.9448 %	98.0014 %
Concentration RSD	1.1 %	0.5 %	0.4 %	0.7 %	0.8 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-4D2 WG1936048
Analysis started at: 6/19/2024 9:55:53 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	44.0484 ppm	0.0316 ppm	0.0462 ppm	2.0343 ppm	0.0016 ppm	519.2683 ppm
Concentration per Run 1	0.0008 ppm	44.2273 ppm	0.0320 ppm	0.0462 ppm	2.0400 ppm	0.0017 ppm	520.2521 ppm
Concentration per Run 2	0.0011 ppm	44.0643 ppm	0.0329 ppm	0.0461 ppm	2.0411 ppm	0.0017 ppm	519.4311 ppm
Concentration per Run 3	0.0013 ppm	43.8536 ppm	0.0298 ppm	0.0464 ppm	2.0217 ppm	0.0016 ppm	518.1215 ppm
Concentration RSD	23.7 %	0.4 %	5.2 %	0.3 %	0.5 %	2.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0261 ppm	4.4837 ppm	0.4605 ppm	8.8072 ppm	185.1485 ppm	4.3366 ppm	1.6451 ppm
Concentration per Run 1	0.0265 ppm	4.5324 ppm	0.4666 ppm	8.9365 ppm	185.4300 ppm	4.3912 ppm	1.6515 ppm
Concentration per Run 2	0.0260 ppm	4.4805 ppm	0.4590 ppm	8.7833 ppm	185.9860 ppm	4.3077 ppm	1.6413 ppm
Concentration per Run 3	0.0258 ppm	4.4383 ppm	0.4558 ppm	8.7020 ppm	184.0295 ppm	4.3109 ppm	1.6427 ppm
Concentration RSD	1.3 %	1.1 %	1.2 %	1.4 %	0.5 %	1.1 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	163.5863 ppm	3.3232 ppm	0.0341 ppm	1.4942 ppm	20.8813 ppm	0.4910 ppm	0.1140 ppm
Concentration per Run 1	165.9000 ppm	3.3321 ppm	0.0341 ppm	1.4966 ppm	21.1726 ppm	0.4933 ppm	0.1126 ppm
Concentration per Run 2	163.0526 ppm	3.3284 ppm	0.0340 ppm	1.4944 ppm	20.8248 ppm	0.4914 ppm	0.1184 ppm
Concentration per Run 3	161.8064 ppm	3.3090 ppm	0.0343 ppm	1.4915 ppm	20.6465 ppm	0.4884 ppm	0.1110 ppm
Concentration RSD	1.3 %	0.4 %	0.5 %	0.2 %	1.3 %	0.5 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0062 ppm	6.6932 ppm	0.2556 ppm	0.5350 ppm	0.9934 ppm	0.0034 ppm	0.1065 ppm
Concentration per Run 1	-0.0058 ppm	6.7580 ppm	0.2605 ppm	0.5346 ppm	1.0110 ppm	0.0054 ppm	0.1080 ppm
Concentration per Run 2	-0.0056 ppm	6.7307 ppm	0.2535 ppm	0.5381 ppm	0.9898 ppm	0.0035 ppm	0.1063 ppm
Concentration per Run 3	-0.0071 ppm	6.5910 ppm	0.2529 ppm	0.5323 ppm	0.9793 ppm	0.0012 ppm	0.1053 ppm
Concentration RSD	13.5 %	1.3 %	1.7 %	0.5 %	1.6 %	62.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.8039 ppm	97.1416 %	102.5946 %	86.7367 %	103.4193 %	112.8008 %	101.8402 %
Concentration per Run 1	3.8618 ppm	96.4031 %	102.7341 %	86.7154 %	102.7684 %	112.8636 %	101.5240 %
Concentration per Run 2	3.7881 ppm	97.4258 %	102.6104 %	86.4829 %	103.7061 %	112.9455 %	101.5184 %
Concentration per Run 3	3.7617 ppm	97.5958 %	102.4394 %	87.0119 %	103.7832 %	112.5933 %	102.4782 %
Concentration RSD	1.4 %	0.7 %	0.1 %	0.3 %	0.5 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-5D2 WG1936048
Analysis started at: 6/19/2024 9:59:48 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0525 ppm	43.5202 ppm	0.1580 ppm	0.9865 ppm	3.8832 ppm	0.0488 ppm	449.7001 ppm
Concentration per Run 1	0.0529 ppm	43.4201 ppm	0.1601 ppm	0.9942 ppm	3.8908 ppm	0.0487 ppm	449.3981 ppm
Concentration per Run 2	0.0528 ppm	43.5529 ppm	0.1561 ppm	0.9851 ppm	3.8745 ppm	0.0488 ppm	449.3053 ppm
Concentration per Run 3	0.0518 ppm	43.5875 ppm	0.1578 ppm	0.9803 ppm	3.8845 ppm	0.0489 ppm	450.3969 ppm
Concentration RSD	1.1 %	0.2 %	1.3 %	0.7 %	0.2 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0693 ppm	6.5022 ppm	0.5609 ppm	11.0072 ppm	171.5391 ppm	14.6270 ppm	1.6244 ppm
Concentration per Run 1	0.0702 ppm	6.5821 ppm	0.5675 ppm	11.1482 ppm	171.5480 ppm	14.7136 ppm	1.6543 ppm
Concentration per Run 2	0.0690 ppm	6.4932 ppm	0.5624 ppm	10.9866 ppm	171.2743 ppm	14.5750 ppm	1.6016 ppm
Concentration per Run 3	0.0687 ppm	6.4313 ppm	0.5527 ppm	10.8867 ppm	171.7949 ppm	14.5925 ppm	1.6173 ppm
Concentration RSD	1.2 %	1.2 %	1.3 %	1.2 %	0.2 %	0.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	146.4501 ppm	3.7620 ppm	0.9378 ppm	11.8142 ppm	28.9951 ppm	0.9332 ppm	0.6027 ppm
Concentration per Run 1	148.5295 ppm	3.7561 ppm	0.9390 ppm	11.8142 ppm	29.4152 ppm	0.9348 ppm	0.6087 ppm
Concentration per Run 2	146.2295 ppm	3.7639 ppm	0.9382 ppm	11.7862 ppm	28.9855 ppm	0.9319 ppm	0.6059 ppm
Concentration per Run 3	144.5914 ppm	3.7659 ppm	0.9363 ppm	11.8421 ppm	28.5847 ppm	0.9327 ppm	0.5935 ppm
Concentration RSD	1.4 %	0.1 %	0.1 %	0.2 %	1.4 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1001 ppm	6.8485 ppm	1.1194 ppm	1.3846 ppm	1.9309 ppm	0.1193 ppm	0.5641 ppm
Concentration per Run 1	0.0989 ppm	6.9499 ppm	1.1276 ppm	1.3786 ppm	1.9597 ppm	0.1187 ppm	0.5720 ppm
Concentration per Run 2	0.1024 ppm	6.8453 ppm	1.1206 ppm	1.3913 ppm	1.9286 ppm	0.1196 ppm	0.5632 ppm
Concentration per Run 3	0.0990 ppm	6.7504 ppm	1.1101 ppm	1.3838 ppm	1.9044 ppm	0.1198 ppm	0.5570 ppm
Concentration RSD	2.0 %	1.5 %	0.8 %	0.5 %	1.4 %	0.5 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2685 ppm	97.4038 %	102.7717 %	86.4416 %	103.0710 %	111.7438 %	101.3329 %
Concentration per Run 1	3.3172 ppm	96.3192 %	103.1757 %	86.4005 %	101.8332 %	112.4652 %	101.0722 %
Concentration per Run 2	3.2666 ppm	97.7077 %	102.9633 %	86.4683 %	103.4587 %	111.7036 %	101.6552 %
Concentration per Run 3	3.2216 ppm	98.1845 %	102.1763 %	86.4560 %	103.9211 %	111.0626 %	101.2713 %
Concentration RSD	1.5 %	1.0 %	0.5 %	0.0 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936048-6D10 WG1936048
Analysis started at: 6/19/2024 10:03:44 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	8.6170 ppm	0.0055 ppm	0.0101 ppm	0.4185 ppm	0.0003 ppm	95.0405 ppm
Concentration per Run 1	0.0008 ppm	8.6272 ppm	0.0049 ppm	0.0103 ppm	0.4170 ppm	0.0003 ppm	95.0354 ppm
Concentration per Run 2	0.0005 ppm	8.6049 ppm	0.0056 ppm	0.0097 ppm	0.4185 ppm	0.0003 ppm	95.0186 ppm
Concentration per Run 3	0.0007 ppm	8.6189 ppm	0.0058 ppm	0.0103 ppm	0.4199 ppm	0.0003 ppm	95.0674 ppm
Concentration RSD	27.0 %	0.1 %	8.4 %	3.3 %	0.3 %	15.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	1.3274 ppm	0.0810 ppm	2.2248 ppm	37.0756 ppm	0.8435 ppm	0.3433 ppm
Concentration per Run 1	0.0052 ppm	1.3519 ppm	0.0829 ppm	2.2717 ppm	36.9865 ppm	0.8459 ppm	0.3430 ppm
Concentration per Run 2	0.0051 ppm	1.3225 ppm	0.0803 ppm	2.2182 ppm	37.0508 ppm	0.8381 ppm	0.3427 ppm
Concentration per Run 3	0.0050 ppm	1.3076 ppm	0.0799 ppm	2.1847 ppm	37.1897 ppm	0.8465 ppm	0.3441 ppm
Concentration RSD	1.5 %	1.7 %	2.0 %	2.0 %	0.3 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.8203 ppm	0.7066 ppm	0.0062 ppm	0.2987 ppm	6.4163 ppm	0.0812 ppm	0.0274 ppm
Concentration per Run 1	30.4040 ppm	0.7072 ppm	0.0069 ppm	0.2987 ppm	6.5629 ppm	0.0829 ppm	0.0276 ppm
Concentration per Run 2	29.6638 ppm	0.7065 ppm	0.0058 ppm	0.2984 ppm	6.3917 ppm	0.0796 ppm	0.0278 ppm
Concentration per Run 3	29.3931 ppm	0.7062 ppm	0.0061 ppm	0.2989 ppm	6.2944 ppm	0.0813 ppm	0.0267 ppm
Concentration RSD	1.8 %	0.1 %	9.1 %	0.1 %	2.1 %	2.0 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	1.2040 ppm	0.0457 ppm	0.0926 ppm	0.2054 ppm	-0.0003 ppm	0.0196 ppm
Concentration per Run 1	-0.0014 ppm	1.2152 ppm	0.0459 ppm	0.0923 ppm	0.2094 ppm	-0.0007 ppm	0.0201 ppm
Concentration per Run 2	-0.0025 ppm	1.2180 ppm	0.0465 ppm	0.0928 ppm	0.2065 ppm	-0.0005 ppm	0.0196 ppm
Concentration per Run 3	-0.0033 ppm	1.1787 ppm	0.0447 ppm	0.0928 ppm	0.2002 ppm	0.0004 ppm	0.0192 ppm
Concentration RSD	40.1 %	1.8 %	2.0 %	0.3 %	2.3 %	214.8 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6393 ppm	97.8143 %	102.2658 %	96.3187 %	96.8213 %	102.6340 %	98.6754 %
Concentration per Run 1	0.6533 ppm	96.4076 %	102.8937 %	95.8029 %	95.8076 %	103.6989 %	98.6557 %
Concentration per Run 2	0.6369 ppm	98.2697 %	102.1214 %	96.7006 %	97.2674 %	102.2285 %	98.8227 %
Concentration per Run 3	0.6278 ppm	98.7656 %	101.7821 %	96.4528 %	97.3890 %	101.9748 %	98.5477 %
Concentration RSD	2.0 %	1.3 %	0.6 %	0.5 %	0.9 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 10:07:47 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5031 ppm	0.4928 ppm	0.4847 ppm	0.4957 ppm	0.5035 ppm	0.5089 ppm	0.4948 ppm
Concentration per Run 1	0.5094 ppm	0.4913 ppm	0.4823 ppm	0.4998 ppm	0.5058 ppm	0.5097 ppm	0.4947 ppm
Concentration per Run 2	0.5007 ppm	0.4996 ppm	0.4850 ppm	0.4916 ppm	0.5025 ppm	0.5080 ppm	0.4939 ppm
Concentration per Run 3	0.4993 ppm	0.4874 ppm	0.4867 ppm	0.4958 ppm	0.5022 ppm	0.5090 ppm	0.4959 ppm
Recovery Percentage 1	100.628 %	98.554 %	96.934 %	99.142 %	100.697 %	101.774 %	98.960 %
Concentration RSD	1.1 %	1.3 %	0.5 %	0.8 %	0.4 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5035 ppm	0.5099 ppm	0.4965 ppm	0.4892 ppm	0.5119 ppm	5.4129 ppm	0.5086 ppm
Concentration per Run 1	0.5073 ppm	0.5142 ppm	0.5017 ppm	0.4947 ppm	0.5176 ppm	5.4533 ppm	0.5113 ppm
Concentration per Run 2	0.5014 ppm	0.5094 ppm	0.4922 ppm	0.4867 ppm	0.5077 ppm	5.4218 ppm	0.5092 ppm
Concentration per Run 3	0.5019 ppm	0.5061 ppm	0.4957 ppm	0.4863 ppm	0.5105 ppm	5.3636 ppm	0.5054 ppm
Recovery Percentage 1	100.705 %	101.983 %	99.305 %	97.849 %	102.387 %	108.258 %	101.727 %
Concentration RSD	0.7 %	0.8 %	1.0 %	1.0 %	1.0 %	0.8 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4932 ppm	0.4998 ppm	0.5004 ppm	10.4863 ppm	0.5115 ppm	0.4920 ppm	0.4913 ppm
Concentration per Run 1	0.4975 ppm	0.4992 ppm	0.4989 ppm	10.4752 ppm	0.5162 ppm	0.4910 ppm	0.4907 ppm
Concentration per Run 2	0.4915 ppm	0.4998 ppm	0.4986 ppm	10.4556 ppm	0.5067 ppm	0.4909 ppm	0.4911 ppm
Concentration per Run 3	0.4906 ppm	0.5004 ppm	0.5036 ppm	10.5282 ppm	0.5115 ppm	0.4942 ppm	0.4920 ppm
Recovery Percentage 1	98.640 %	99.956 %	100.072 %	104.863 %	102.296 %	98.408 %	98.257 %
Concentration RSD	0.8 %	0.1 %	0.6 %	0.4 %	0.9 %	0.4 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4893 ppm	5.2114 ppm	0.5240 ppm	0.5025 ppm	0.5021 ppm	0.4843 ppm	0.4967 ppm
Concentration per Run 1	0.4880 ppm	5.2605 ppm	0.5260 ppm	0.5038 ppm	0.5083 ppm	0.4845 ppm	0.5026 ppm
Concentration per Run 2	0.4916 ppm	5.1748 ppm	0.5208 ppm	0.5024 ppm	0.5002 ppm	0.4865 ppm	0.4954 ppm
Concentration per Run 3	0.4883 ppm	5.1990 ppm	0.5253 ppm	0.5013 ppm	0.4979 ppm	0.4819 ppm	0.4921 ppm
Recovery Percentage 1	97.855 %	99.266 %	104.808 %	100.509 %	100.423 %	96.866 %	99.340 %
Concentration RSD	0.4 %	0.8 %	0.5 %	0.2 %	1.1 %	0.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5116 ppm	100.5235 %	101.9752 %	99.9672 %	95.1264 %	98.6971 %	97.4314 %
Concentration per Run 1	0.5152 ppm	99.9680 %	102.0875 %	100.2175 %	94.3485 %	98.6686 %	97.4688 %
Concentration per Run 2	0.5078 ppm	100.8073 %	101.4510 %	99.9740 %	95.2907 %	98.1633 %	97.4169 %
Concentration per Run 3	0.5119 ppm	100.7952 %	102.3870 %	99.7101 %	95.7398 %	99.2595 %	97.4084 %
Recovery Percentage 1	102.326 %						
Concentration RSD	0.7 %	0.5 %	0.5 %	0.3 %	0.7 %	0.6 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 10:11:43 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0014 ppm	0.0005 ppm	0.0013 ppm	-0.0003 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	-0.0001 ppm	-0.0080 ppm	0.0008 ppm	0.0010 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	-0.0029 ppm	0.0005 ppm	0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 3	0.0003 ppm	0.0066 ppm	0.0002 ppm	0.0015 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-1.358 %	-1.405 %	16.635 %	4.379 %	-3.131 %	0.642 %	-1.506 %
Concentration RSD	369.4 %	528.9 %	55.9 %	21.6 %	8.4 %	47.1 %	119.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0049 ppm	-0.0043 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0009 ppm	0.0063 ppm	-0.0086 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0004 ppm	0.0040 ppm	-0.0167 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm	0.0045 ppm	0.0123 ppm	-0.0001 ppm
Recovery Percentage 1	0.809 %	0.924 %	-4.162 %	5.305 %	9.873 %	-0.173 %	-1.226 %
Concentration RSD	241.2 %	247.8 %	10.8 %	62.1 %	24.0 %	345.9 %	612.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0009 ppm	0.0116 ppm	0.0004 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.0001 ppm	0.0017 ppm	0.0075 ppm	0.0003 ppm	-0.0016 ppm	-0.0017 ppm
Concentration per Run 2	-0.0019 ppm	0.0000 ppm	0.0006 ppm	0.0191 ppm	0.0008 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0081 ppm	0.0001 ppm	-0.0020 ppm	0.0035 ppm
Recovery Percentage 1	-1.327 %	0.284 %	1.886 %	0.579 %	1.722 %	-15.495 %	-0.084 %
Concentration RSD	74.3 %	331.0 %	65.7 %	56.5 %	83.0 %	29.2 %	7,249.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0024 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 1	-0.0014 ppm	0.0016 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 2	-0.0022 ppm	0.0009 ppm	-0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 3	-0.0010 ppm	0.0047 ppm	-0.0014 ppm	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	-15.470 %	0.483 %	-2.285 %	0.100 %	-0.940 %	-4.883 %	-3.201 %
Concentration RSD	40.6 %	82.7 %	34.8 %	1,215.9 %	202.1 %	48.9 %	21.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	95.2431 %	98.3235 %	96.3803 %	96.4408 %	99.3841 %	98.3590 %
Concentration per Run 1	0.0005 ppm	92.8131 %	98.3082 %	96.2233 %	94.7450 %	99.8717 %	98.5294 %
Concentration per Run 2	0.0004 ppm	96.0593 %	98.1045 %	95.8263 %	97.0895 %	98.9810 %	97.8990 %
Concentration per Run 3	0.0002 ppm	96.8568 %	98.5577 %	97.0913 %	97.4879 %	99.2994 %	98.6487 %
Recovery Percentage 1	7.652 %						
Concentration RSD	36.8 %	2.2 %	0.2 %	0.7 %	1.5 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: SIC 50 Ni As-
Analysis started at: 6/19/2024 10:23:51 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0070 ppm	0.0013 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0054 ppm
Concentration per Run 1	0.0001 ppm	-0.0080 ppm	0.0035 ppm	-0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0082 ppm
Concentration per Run 2	0.0001 ppm	-0.0090 ppm	-0.0002 ppm	0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	0.0003 ppm	-0.0041 ppm	0.0005 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0020 ppm
Concentration RSD	81.3 %	37.2 %	156.6 %	254.8 %	34.5 %	152.6 %	58.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0057 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	-0.0109 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	-0.0003 ppm	0.0005 ppm	-0.0012 ppm	-0.0217 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0059 ppm	-0.0001 ppm	0.0006 ppm	0.0022 ppm	-0.0043 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0058 ppm	0.0001 ppm	0.0001 ppm	0.0025 ppm	-0.0068 ppm	-0.0008 ppm
Concentration RSD	976.1 %	5.6 %	243.7 %	73.5 %	175.7 %	86.1 %	258.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0124 ppm	52.7770 ppm	0.0028 ppm	-0.0070 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	-0.0005 ppm	0.0057 ppm	53.8686 ppm	0.0022 ppm	-0.0091 ppm
Concentration per Run 2	0.0015 ppm	0.0003 ppm	-0.0005 ppm	0.0231 ppm	52.5237 ppm	0.0032 ppm	-0.0047 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	-0.0007 ppm	0.0084 ppm	51.9388 ppm	0.0029 ppm	-0.0073 ppm
Concentration RSD	1,375.7 %	111.2 %	21.3 %	76.0 %	1.9 %	19.0 %	31.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0036 ppm	0.0018 ppm	-0.0019 ppm	0.0001 ppm	-0.0008 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 1	-0.0033 ppm	0.0029 ppm	-0.0016 ppm	0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0040 ppm	0.0029 ppm	-0.0018 ppm	0.0002 ppm	-0.0006 ppm	-0.0027 ppm	0.0005 ppm
Concentration per Run 3	-0.0034 ppm	-0.0003 ppm	-0.0024 ppm	0.0000 ppm	-0.0012 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	10.9 %	100.4 %	21.6 %	102.6 %	43.6 %	124.2 %	137.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	95.5066 %	98.6559 %	96.2822 %	96.2340 %	99.8738 %	97.9375 %
Concentration per Run 1	0.0009 ppm	93.8125 %	99.1080 %	96.1239 %	95.2107 %	100.7228 %	98.2340 %
Concentration per Run 2	0.0012 ppm	96.2308 %	98.0931 %	96.4268 %	96.9118 %	99.3043 %	97.7690 %
Concentration per Run 3	0.0008 ppm	96.4767 %	98.7664 %	96.2958 %	96.5793 %	99.5942 %	97.8095 %
Concentration RSD	17.2 %	1.5 %	0.5 %	0.2 %	0.9 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432886-02D2 WG1936048
Analysis started at: 6/19/2024 10:39:48 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	23.0650 ppm	0.0649 ppm	0.0264 ppm	0.2118 ppm	0.0015 ppm	84.3942 ppm
Concentration per Run 1	-0.0001 ppm	23.0995 ppm	0.0652 ppm	0.0282 ppm	0.2115 ppm	0.0014 ppm	84.5684 ppm
Concentration per Run 2	-0.0005 ppm	23.0144 ppm	0.0645 ppm	0.0260 ppm	0.2122 ppm	0.0015 ppm	84.1076 ppm
Concentration per Run 3	-0.0009 ppm	23.0812 ppm	0.0651 ppm	0.0250 ppm	0.2119 ppm	0.0015 ppm	84.5067 ppm
Concentration RSD	82.8 %	0.2 %	0.6 %	6.2 %	0.2 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.0095 ppm	0.0968 ppm	0.1043 ppm	108.4517 ppm	4.2633 ppm	0.0162 ppm
Concentration per Run 1	0.0027 ppm	0.0092 ppm	0.0982 ppm	0.1046 ppm	108.3797 ppm	4.3038 ppm	0.0169 ppm
Concentration per Run 2	0.0028 ppm	0.0097 ppm	0.0958 ppm	0.1042 ppm	108.3021 ppm	4.2512 ppm	0.0170 ppm
Concentration per Run 3	0.0027 ppm	0.0095 ppm	0.0962 ppm	0.1041 ppm	108.6735 ppm	4.2349 ppm	0.0147 ppm
Concentration RSD	2.2 %	2.2 %	1.3 %	0.3 %	0.2 %	0.8 %	8.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.2011 ppm	0.5118 ppm	0.0042 ppm	1.1288 ppm	0.0298 ppm	0.5047 ppm	0.0059 ppm
Concentration per Run 1	43.4896 ppm	0.5118 ppm	0.0040 ppm	1.1273 ppm	0.0310 ppm	0.5039 ppm	0.0049 ppm
Concentration per Run 2	43.0576 ppm	0.5109 ppm	0.0042 ppm	1.1223 ppm	0.0300 ppm	0.5030 ppm	0.0062 ppm
Concentration per Run 3	43.0560 ppm	0.5125 ppm	0.0045 ppm	1.1369 ppm	0.0284 ppm	0.5072 ppm	0.0065 ppm
Concentration RSD	0.6 %	0.2 %	6.0 %	0.7 %	4.5 %	0.4 %	14.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	6.1937 ppm	0.0164 ppm	0.1239 ppm	0.3508 ppm	0.0006 ppm	0.1281 ppm
Concentration per Run 1	0.0029 ppm	6.2311 ppm	0.0162 ppm	0.1237 ppm	0.3521 ppm	0.0003 ppm	0.1291 ppm
Concentration per Run 2	-0.0032 ppm	6.1692 ppm	0.0166 ppm	0.1237 ppm	0.3519 ppm	0.0001 ppm	0.1278 ppm
Concentration per Run 3	-0.0033 ppm	6.1808 ppm	0.0165 ppm	0.1244 ppm	0.3485 ppm	0.0015 ppm	0.1276 ppm
Concentration RSD	297.9 %	0.5 %	1.5 %	0.3 %	0.6 %	116.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6351 ppm	101.1640 %	103.9521 %	96.9768 %	99.3124 %	104.5121 %	100.8714 %
Concentration per Run 1	0.6390 ppm	100.3931 %	103.7915 %	97.1850 %	98.8277 %	104.9238 %	100.9159 %
Concentration per Run 2	0.6303 ppm	101.6147 %	104.4226 %	97.0924 %	99.6457 %	104.5493 %	100.9310 %
Concentration per Run 3	0.6359 ppm	101.4843 %	103.6421 %	96.6529 %	99.4637 %	104.0632 %	100.7674 %
Concentration RSD	0.7 %	0.7 %	0.4 %	0.3 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432938-01D2 WG1936048
Analysis started at: 6/19/2024 10:43:50 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	86.1251 ppm	0.1122 ppm	0.0334 ppm	0.9187 ppm	0.0060 ppm	162.8163 ppm
Concentration per Run 1	-0.0003 ppm	86.0472 ppm	0.1140 ppm	0.0344 ppm	0.9208 ppm	0.0060 ppm	163.0241 ppm
Concentration per Run 2	-0.0001 ppm	86.2967 ppm	0.1126 ppm	0.0325 ppm	0.9202 ppm	0.0060 ppm	163.1695 ppm
Concentration per Run 3	-0.0003 ppm	86.0315 ppm	0.1099 ppm	0.0333 ppm	0.9152 ppm	0.0060 ppm	162.2551 ppm
Concentration RSD	64.6 %	0.2 %	1.9 %	2.9 %	0.3 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.0930 ppm	0.1310 ppm	0.1814 ppm	192.7026 ppm	10.9953 ppm	0.0844 ppm
Concentration per Run 1	0.0050 ppm	0.0949 ppm	0.1336 ppm	0.1840 ppm	192.8827 ppm	11.0354 ppm	0.0855 ppm
Concentration per Run 2	0.0049 ppm	0.0927 ppm	0.1303 ppm	0.1808 ppm	193.1877 ppm	10.9895 ppm	0.0829 ppm
Concentration per Run 3	0.0048 ppm	0.0913 ppm	0.1293 ppm	0.1794 ppm	192.0376 ppm	10.9610 ppm	0.0847 ppm
Concentration RSD	2.1 %	2.0 %	1.7 %	1.3 %	0.3 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	89.4056 ppm	6.0823 ppm	0.0238 ppm	0.3671 ppm	0.2479 ppm	0.3700 ppm	0.0160 ppm
Concentration per Run 1	90.6734 ppm	6.0933 ppm	0.0236 ppm	0.3672 ppm	0.2530 ppm	0.3712 ppm	0.0177 ppm
Concentration per Run 2	89.2209 ppm	6.0881 ppm	0.0238 ppm	0.3692 ppm	0.2460 ppm	0.3696 ppm	0.0157 ppm
Concentration per Run 3	88.3226 ppm	6.0656 ppm	0.0239 ppm	0.3649 ppm	0.2447 ppm	0.3693 ppm	0.0146 ppm
Concentration RSD	1.3 %	0.2 %	0.6 %	0.6 %	1.8 %	0.3 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	6.8708 ppm	0.0048 ppm	0.1527 ppm	0.4776 ppm	0.0052 ppm	0.2235 ppm
Concentration per Run 1	0.0003 ppm	6.9520 ppm	0.0050 ppm	0.1531 ppm	0.4863 ppm	0.0046 ppm	0.2264 ppm
Concentration per Run 2	0.0017 ppm	6.8859 ppm	0.0054 ppm	0.1528 ppm	0.4761 ppm	0.0050 ppm	0.2233 ppm
Concentration per Run 3	0.0015 ppm	6.7746 ppm	0.0041 ppm	0.1522 ppm	0.4704 ppm	0.0059 ppm	0.2210 ppm
Concentration RSD	66.9 %	1.3 %	13.2 %	0.3 %	1.7 %	12.9 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6353 ppm	101.5028 %	106.8294 %	93.8497 %	129.0431 %	139.3753 %	130.2551 %
Concentration per Run 1	1.6613 ppm	100.9521 %	106.7730 %	93.9462 %	128.1194 %	139.4205 %	130.7114 %
Concentration per Run 2	1.6345 ppm	101.4355 %	106.6617 %	93.4160 %	129.3069 %	139.2648 %	129.9112 %
Concentration per Run 3	1.6101 ppm	102.1208 %	107.0536 %	94.1869 %	129.7029 %	139.4408 %	130.1425 %
Concentration RSD	1.6 %	0.6 %	0.2 %	0.4 %	0.6 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432938-03D2 WG1936048
Analysis started at: 6/19/2024 10:47:46 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	88.6965 ppm	0.0916 ppm	0.0140 ppm	0.8135 ppm	0.0059 ppm	29.9034 ppm
Concentration per Run 1	-0.0002 ppm	89.1811 ppm	0.0911 ppm	0.0145 ppm	0.8186 ppm	0.0059 ppm	30.0286 ppm
Concentration per Run 2	0.0002 ppm	88.6387 ppm	0.0919 ppm	0.0146 ppm	0.8196 ppm	0.0059 ppm	29.8980 ppm
Concentration per Run 3	-0.0004 ppm	88.2696 ppm	0.0918 ppm	0.0131 ppm	0.8022 ppm	0.0058 ppm	29.7835 ppm
Concentration RSD	192.1 %	0.5 %	0.5 %	6.1 %	1.2 %	1.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0672 ppm	0.1237 ppm	0.1406 ppm	174.9757 ppm	7.2476 ppm	0.0653 ppm
Concentration per Run 1	0.0021 ppm	0.0677 ppm	0.1255 ppm	0.1428 ppm	175.4653 ppm	7.3174 ppm	0.0665 ppm
Concentration per Run 2	0.0020 ppm	0.0669 ppm	0.1238 ppm	0.1404 ppm	175.8752 ppm	7.2506 ppm	0.0646 ppm
Concentration per Run 3	0.0019 ppm	0.0670 ppm	0.1217 ppm	0.1387 ppm	173.5867 ppm	7.1747 ppm	0.0647 ppm
Concentration RSD	3.0 %	0.6 %	1.5 %	1.5 %	0.7 %	1.0 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.5346 ppm	3.4461 ppm	0.0170 ppm	0.3310 ppm	0.1876 ppm	0.1640 ppm	0.0053 ppm
Concentration per Run 1	24.9401 ppm	3.4649 ppm	0.0169 ppm	0.3326 ppm	0.1897 ppm	0.1645 ppm	0.0056 ppm
Concentration per Run 2	24.4476 ppm	3.4434 ppm	0.0166 ppm	0.3320 ppm	0.1867 ppm	0.1645 ppm	0.0036 ppm
Concentration per Run 3	24.2160 ppm	3.4299 ppm	0.0177 ppm	0.3285 ppm	0.1863 ppm	0.1631 ppm	0.0066 ppm
Concentration RSD	1.5 %	0.5 %	3.4 %	0.7 %	1.0 %	0.5 %	29.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	7.6902 ppm	0.0077 ppm	0.0770 ppm	0.5204 ppm	0.0046 ppm	0.2265 ppm
Concentration per Run 1	-0.0002 ppm	7.8400 ppm	0.0093 ppm	0.0779 ppm	0.5283 ppm	0.0041 ppm	0.2310 ppm
Concentration per Run 2	-0.0001 ppm	7.6771 ppm	0.0072 ppm	0.0770 ppm	0.5183 ppm	0.0045 ppm	0.2253 ppm
Concentration per Run 3	0.0017 ppm	7.5534 ppm	0.0065 ppm	0.0761 ppm	0.5145 ppm	0.0051 ppm	0.2232 ppm
Concentration RSD	229.8 %	1.9 %	19.4 %	1.2 %	1.4 %	11.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6248 ppm	104.0883 %	106.8621 %	98.7333 %	131.4947 %	137.8839 %	133.5121 %
Concentration per Run 1	0.6339 ppm	103.2799 %	107.7605 %	98.4466 %	130.7811 %	139.2203 %	133.6005 %
Concentration per Run 2	0.6217 ppm	104.5229 %	106.6265 %	98.6523 %	131.8948 %	137.7408 %	133.3314 %
Concentration per Run 3	0.6187 ppm	104.4619 %	106.1992 %	99.1009 %	131.8082 %	136.6908 %	133.6045 %
Concentration RSD	1.3 %	0.7 %	0.8 %	0.3 %	0.5 %	0.9 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432974-01D2 WG1936048
Analysis started at: 6/19/2024 10:51:42 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	73.1667 ppm	0.0165 ppm	0.0088 ppm	0.6660 ppm	0.0036 ppm	10.8327 ppm
Concentration per Run 1	0.0001 ppm	73.4572 ppm	0.0165 ppm	0.0084 ppm	0.6713 ppm	0.0036 ppm	10.9051 ppm
Concentration per Run 2	-0.0002 ppm	73.2343 ppm	0.0165 ppm	0.0093 ppm	0.6613 ppm	0.0035 ppm	10.8252 ppm
Concentration per Run 3	0.0000 ppm	72.8084 ppm	0.0164 ppm	0.0088 ppm	0.6656 ppm	0.0036 ppm	10.7677 ppm
Concentration RSD	619.1 %	0.5 %	0.2 %	5.2 %	0.7 %	2.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0077 ppm	0.0279 ppm	0.0834 ppm	0.7321 ppm	102.7919 ppm	2.3526 ppm	0.0808 ppm
Concentration per Run 1	0.0077 ppm	0.0285 ppm	0.0851 ppm	0.7483 ppm	103.4003 ppm	2.3866 ppm	0.0836 ppm
Concentration per Run 2	0.0078 ppm	0.0282 ppm	0.0829 ppm	0.7271 ppm	102.4823 ppm	2.3308 ppm	0.0805 ppm
Concentration per Run 3	0.0076 ppm	0.0272 ppm	0.0820 ppm	0.7207 ppm	102.4931 ppm	2.3403 ppm	0.0782 ppm
Concentration RSD	1.2 %	2.4 %	1.9 %	2.0 %	0.5 %	1.3 %	3.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.8259 ppm	0.5923 ppm	0.0016 ppm	0.4960 ppm	0.0739 ppm	0.2821 ppm	0.0032 ppm
Concentration per Run 1	12.0482 ppm	0.5960 ppm	0.0015 ppm	0.4991 ppm	0.0758 ppm	0.2814 ppm	0.0027 ppm
Concentration per Run 2	11.8033 ppm	0.5922 ppm	0.0018 ppm	0.4984 ppm	0.0733 ppm	0.2849 ppm	0.0063 ppm
Concentration per Run 3	11.6263 ppm	0.5887 ppm	0.0014 ppm	0.4905 ppm	0.0725 ppm	0.2802 ppm	0.0006 ppm
Concentration RSD	1.8 %	0.6 %	13.6 %	1.0 %	2.4 %	0.9 %	90.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	7.5182 ppm	0.0092 ppm	0.1389 ppm	0.5222 ppm	0.0022 ppm	0.1471 ppm
Concentration per Run 1	0.0003 ppm	7.6690 ppm	0.0102 ppm	0.1398 ppm	0.5392 ppm	0.0015 ppm	0.1496 ppm
Concentration per Run 2	0.0027 ppm	7.5213 ppm	0.0091 ppm	0.1384 ppm	0.5152 ppm	0.0041 ppm	0.1464 ppm
Concentration per Run 3	0.0006 ppm	7.3642 ppm	0.0084 ppm	0.1384 ppm	0.5122 ppm	0.0008 ppm	0.1452 ppm
Concentration RSD	110.4 %	2.0 %	9.9 %	0.6 %	2.8 %	80.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.9932 ppm	102.2882 %	106.2356 %	99.4164 %	115.0661 %	121.1619 %	117.4484 %
Concentration per Run 1	3.0575 ppm	100.9802 %	106.6892 %	99.8717 %	114.3013 %	121.6958 %	117.9529 %
Concentration per Run 2	2.9713 ppm	102.5125 %	105.9210 %	99.2682 %	115.1620 %	120.9895 %	117.3045 %
Concentration per Run 3	2.9509 ppm	103.3718 %	106.0965 %	99.1091 %	115.7352 %	120.8004 %	117.0878 %
Concentration RSD	1.9 %	1.2 %	0.4 %	0.4 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-01D2 WG1936048
Analysis started at: 6/19/2024 10:55:38 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0780 ppm	3.8297 ppm	0.1118 ppm	0.0413 ppm	0.9087 ppm	0.0002 ppm	5.4130 ppm
Concentration per Run 1	0.0786 ppm	3.8407 ppm	0.1112 ppm	0.0423 ppm	0.9078 ppm	0.0001 ppm	5.4203 ppm
Concentration per Run 2	0.0779 ppm	3.8417 ppm	0.1108 ppm	0.0390 ppm	0.9051 ppm	0.0001 ppm	5.4089 ppm
Concentration per Run 3	0.0777 ppm	3.8068 ppm	0.1136 ppm	0.0425 ppm	0.9132 ppm	0.0002 ppm	5.4100 ppm
Concentration RSD	0.6 %	0.5 %	1.4 %	4.7 %	0.5 %	24.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0186 ppm	0.0096 ppm	1.1849 ppm	0.6156 ppm	72.3334 ppm	0.6547 ppm	0.0016 ppm
Concentration per Run 1	0.0187 ppm	0.0096 ppm	1.2001 ppm	0.6254 ppm	72.3238 ppm	0.6453 ppm	0.0026 ppm
Concentration per Run 2	0.0187 ppm	0.0101 ppm	1.1831 ppm	0.6121 ppm	72.1019 ppm	0.6324 ppm	0.0005 ppm
Concentration per Run 3	0.0185 ppm	0.0091 ppm	1.1715 ppm	0.6093 ppm	72.5745 ppm	0.6864 ppm	0.0018 ppm
Concentration RSD	0.6 %	5.2 %	1.2 %	1.4 %	0.3 %	4.3 %	67.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.9589 ppm	0.1895 ppm	0.0468 ppm	11.1128 ppm	0.2614 ppm	330.6093 ppm	3.6189 ppm
Concentration per Run 1	7.0630 ppm	0.1902 ppm	0.0469 ppm	11.1084 ppm	0.2642 ppm	330.5074 ppm	3.6666 ppm
Concentration per Run 2	6.9445 ppm	0.1887 ppm	0.0469 ppm	11.1195 ppm	0.2628 ppm	330.7311 ppm	3.6008 ppm
Concentration per Run 3	6.8692 ppm	0.1896 ppm	0.0467 ppm	11.1107 ppm	0.2571 ppm	330.5894 ppm	3.5893 ppm
Concentration RSD	1.4 %	0.4 %	0.3 %	0.1 %	1.4 %	0.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0765 ppm	2.0717 ppm	0.9318 ppm	0.0749 ppm	0.0915 ppm	-0.0012 ppm	0.1983 ppm
Concentration per Run 1	0.0747 ppm	2.0970 ppm	0.9455 ppm	0.0748 ppm	0.0937 ppm	-0.0016 ppm	0.2011 ppm
Concentration per Run 2	0.0790 ppm	2.0581 ppm	0.9279 ppm	0.0748 ppm	0.0906 ppm	-0.0003 ppm	0.1982 ppm
Concentration per Run 3	0.0757 ppm	2.0601 ppm	0.9221 ppm	0.0751 ppm	0.0904 ppm	-0.0016 ppm	0.1956 ppm
Concentration RSD	3.0 %	1.1 %	1.3 %	0.2 %	2.1 %	67.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7903 ppm	101.2875 %	103.9584 %	99.4622 %	97.0012 %	101.2793 %	97.6553 %
Concentration per Run 1	0.8040 ppm	99.6924 %	104.2255 %	99.3261 %	95.7403 %	101.6584 %	97.4757 %
Concentration per Run 2	0.7901 ppm	101.4080 %	104.1525 %	99.5892 %	97.0862 %	101.5117 %	97.9211 %
Concentration per Run 3	0.7767 ppm	102.7620 %	103.4973 %	99.4711 %	98.1773 %	100.6679 %	97.5692 %
Concentration RSD	1.7 %	1.5 %	0.4 %	0.1 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D2 WG1936048
Analysis started at: 6/19/2024 10:59:35 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1459 ppm	6.6057 ppm	0.1751 ppm	0.0941 ppm	0.6127 ppm	0.0001 ppm	28.3825 ppm
Concentration per Run 1	0.1478 ppm	6.5931 ppm	0.1757 ppm	0.0947 ppm	0.6125 ppm	0.0002 ppm	28.3593 ppm
Concentration per Run 2	0.1449 ppm	6.6225 ppm	0.1760 ppm	0.0932 ppm	0.6139 ppm	0.0001 ppm	28.3715 ppm
Concentration per Run 3	0.1449 ppm	6.6014 ppm	0.1737 ppm	0.0942 ppm	0.6116 ppm	0.0001 ppm	28.4166 ppm
Concentration RSD	1.1 %	0.2 %	0.7 %	0.8 %	0.2 %	25.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0878 ppm	0.0355 ppm	2.0727 ppm	0.9757 ppm	89.2113 ppm	0.9367 ppm	0.0044 ppm
Concentration per Run 1	0.0891 ppm	0.0364 ppm	2.0987 ppm	0.9915 ppm	89.0569 ppm	0.9403 ppm	0.0056 ppm
Concentration per Run 2	0.0877 ppm	0.0351 ppm	2.0615 ppm	0.9695 ppm	89.2285 ppm	0.9324 ppm	0.0049 ppm
Concentration per Run 3	0.0866 ppm	0.0348 ppm	2.0578 ppm	0.9660 ppm	89.3484 ppm	0.9373 ppm	0.0028 ppm
Concentration RSD	1.4 %	2.4 %	1.1 %	1.4 %	0.2 %	0.4 %	32.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4835 ppm	0.7413 ppm	0.0618 ppm	24.4967 ppm	0.7660 ppm	551.9231 ppm	3.8604 ppm
Concentration per Run 1	20.7443 ppm	0.7406 ppm	0.0624 ppm	24.5579 ppm	0.7781 ppm	550.4088 ppm	3.9256 ppm
Concentration per Run 2	20.4018 ppm	0.7420 ppm	0.0616 ppm	24.4852 ppm	0.7596 ppm	554.9872 ppm	3.8495 ppm
Concentration per Run 3	20.3046 ppm	0.7412 ppm	0.0615 ppm	24.4469 ppm	0.7604 ppm	550.3734 ppm	3.8061 ppm
Concentration RSD	1.1 %	0.1 %	0.8 %	0.2 %	1.4 %	0.5 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1235 ppm	2.2250 ppm	2.6008 ppm	0.1542 ppm	0.1712 ppm	0.0052 ppm	0.8168 ppm
Concentration per Run 1	0.1238 ppm	2.2472 ppm	2.6346 ppm	0.1545 ppm	0.1725 ppm	0.0024 ppm	0.8282 ppm
Concentration per Run 2	0.1228 ppm	2.2341 ppm	2.5997 ppm	0.1545 ppm	0.1712 ppm	0.0064 ppm	0.8124 ppm
Concentration per Run 3	0.1240 ppm	2.1937 ppm	2.5682 ppm	0.1537 ppm	0.1700 ppm	0.0068 ppm	0.8097 ppm
Concentration RSD	0.5 %	1.3 %	1.3 %	0.3 %	0.7 %	47.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	4.4247 ppm	100.4128 %	103.1309 %	96.6111 %	95.4334 %	99.9576 %	94.8176 %
Concentration per Run 1	4.4974 ppm	99.4942 %	103.3170 %	96.7296 %	94.6016 %	100.2747 %	94.7299 %
Concentration per Run 2	4.3918 ppm	100.2646 %	103.4694 %	96.0218 %	95.3118 %	100.2501 %	94.4080 %
Concentration per Run 3	4.3850 ppm	101.4796 %	102.6063 %	97.0818 %	96.3869 %	99.3481 %	95.3150 %
Concentration RSD	1.4 %	1.0 %	0.4 %	0.6 %	0.9 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-03D2 WG1936048
Analysis started at: 6/19/2024 11:03:32 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0059 ppm	93.6569 ppm	0.0276 ppm	0.0927 ppm	6.1097 ppm	0.0085 ppm	21.2848 ppm
Concentration per Run 1	-0.0057 ppm	93.8237 ppm	0.0285 ppm	0.0909 ppm	6.0776 ppm	0.0086 ppm	21.2140 ppm
Concentration per Run 2	-0.0052 ppm	93.4459 ppm	0.0282 ppm	0.0933 ppm	6.1112 ppm	0.0085 ppm	21.3501 ppm
Concentration per Run 3	-0.0067 ppm	93.7010 ppm	0.0261 ppm	0.0940 ppm	6.1404 ppm	0.0084 ppm	21.2905 ppm
Concentration RSD	12.9 %	0.2 %	4.8 %	1.8 %	0.5 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0117 ppm	0.2604 ppm	0.2594 ppm	0.0984 ppm	345.8402 ppm	17.1644 ppm	0.6461 ppm
Concentration per Run 1	0.0116 ppm	0.2621 ppm	0.2615 ppm	0.0992 ppm	343.5556 ppm	17.2088 ppm	0.6416 ppm
Concentration per Run 2	0.0117 ppm	0.2599 ppm	0.2589 ppm	0.0978 ppm	346.8212 ppm	17.0487 ppm	0.6459 ppm
Concentration per Run 3	0.0117 ppm	0.2591 ppm	0.2578 ppm	0.0981 ppm	347.1436 ppm	17.2356 ppm	0.6509 ppm
Concentration RSD	0.5 %	0.6 %	0.7 %	0.8 %	0.6 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	82.5344 ppm	75.0782 ppm	0.0059 ppm	1.7058 ppm	0.6500 ppm	0.2767 ppm	0.0112 ppm
Concentration per Run 1	83.0877 ppm	75.0390 ppm	0.0063 ppm	1.7016 ppm	0.6538 ppm	0.2749 ppm	0.0069 ppm
Concentration per Run 2	82.1521 ppm	75.0596 ppm	0.0054 ppm	1.7186 ppm	0.6478 ppm	0.2758 ppm	0.0114 ppm
Concentration per Run 3	82.3633 ppm	75.1361 ppm	0.0059 ppm	1.6973 ppm	0.6486 ppm	0.2794 ppm	0.0152 ppm
Concentration RSD	0.6 %	0.1 %	7.4 %	0.7 %	0.5 %	0.9 %	36.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	4.5872 ppm	0.0063 ppm	0.2787 ppm	3.5456 ppm	0.0169 ppm	0.2422 ppm
Concentration per Run 1	-0.0016 ppm	4.6107 ppm	0.0065 ppm	0.2780 ppm	3.5780 ppm	0.0170 ppm	0.2443 ppm
Concentration per Run 2	-0.0001 ppm	4.5738 ppm	0.0066 ppm	0.2793 ppm	3.5260 ppm	0.0186 ppm	0.2403 ppm
Concentration per Run 3	-0.0019 ppm	4.5770 ppm	0.0059 ppm	0.2789 ppm	3.5329 ppm	0.0150 ppm	0.2419 ppm
Concentration RSD	83.4 %	0.4 %	5.5 %	0.2 %	0.8 %	10.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2334 ppm	114.0724 %	110.5017 %	100.3402 %	119.7875 %	121.2139 %	123.8412 %
Concentration per Run 1	1.2426 ppm	113.9203 %	111.3183 %	100.1861 %	119.6181 %	121.4561 %	123.4976 %
Concentration per Run 2	1.2299 ppm	114.6703 %	108.7094 %	100.2194 %	120.2389 %	119.7183 %	123.7098 %
Concentration per Run 3	1.2277 ppm	113.6265 %	111.4773 %	100.6153 %	119.5054 %	122.4673 %	124.3163 %
Concentration RSD	0.7 %	0.5 %	1.4 %	0.2 %	0.3 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-06D2 WG1936048
Analysis started at: 6/19/2024 11:07:29 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0036 ppm	95.4575 ppm	0.0307 ppm	0.1178 ppm	2.1365 ppm	0.0111 ppm	128.3495 ppm
Concentration per Run 1	-0.0035 ppm	95.5345 ppm	0.0299 ppm	0.1193 ppm	2.1451 ppm	0.0111 ppm	128.3150 ppm
Concentration per Run 2	-0.0039 ppm	95.3346 ppm	0.0300 ppm	0.1186 ppm	2.1539 ppm	0.0110 ppm	128.4459 ppm
Concentration per Run 3	-0.0035 ppm	95.5034 ppm	0.0323 ppm	0.1154 ppm	2.1104 ppm	0.0110 ppm	128.2875 ppm
Concentration RSD	6.8 %	0.1 %	4.5 %	1.8 %	1.1 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.1436 ppm	0.2277 ppm	0.1403 ppm	301.9159 ppm	19.3626 ppm	0.5051 ppm
Concentration per Run 1	0.0026 ppm	0.1442 ppm	0.2291 ppm	0.1419 ppm	304.7115 ppm	19.5229 ppm	0.5088 ppm
Concentration per Run 2	0.0024 ppm	0.1437 ppm	0.2287 ppm	0.1392 ppm	303.4149 ppm	19.4972 ppm	0.5058 ppm
Concentration per Run 3	0.0025 ppm	0.1431 ppm	0.2253 ppm	0.1397 ppm	297.6213 ppm	19.0678 ppm	0.5006 ppm
Concentration RSD	5.1 %	0.4 %	0.9 %	1.0 %	1.3 %	1.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	80.9464 ppm	21.4244 ppm	0.0056 ppm	2.4054 ppm	0.5230 ppm	0.2016 ppm	0.0084 ppm
Concentration per Run 1	81.7128 ppm	21.4900 ppm	0.0063 ppm	2.4077 ppm	0.5266 ppm	0.2029 ppm	0.0094 ppm
Concentration per Run 2	80.9784 ppm	21.4365 ppm	0.0046 ppm	2.4053 ppm	0.5246 ppm	0.2018 ppm	0.0084 ppm
Concentration per Run 3	80.1478 ppm	21.3468 ppm	0.0060 ppm	2.4033 ppm	0.5177 ppm	0.1999 ppm	0.0074 ppm
Concentration RSD	1.0 %	0.3 %	16.6 %	0.1 %	0.9 %	0.8 %	11.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	12.3007 ppm	0.0047 ppm	0.6251 ppm	3.6091 ppm	0.0068 ppm	0.2152 ppm
Concentration per Run 1	-0.0002 ppm	12.4325 ppm	0.0039 ppm	0.6267 ppm	3.6404 ppm	0.0055 ppm	0.2167 ppm
Concentration per Run 2	-0.0007 ppm	12.2484 ppm	0.0048 ppm	0.6259 ppm	3.6132 ppm	0.0075 ppm	0.2152 ppm
Concentration per Run 3	-0.0033 ppm	12.2212 ppm	0.0052 ppm	0.6226 ppm	3.5736 ppm	0.0075 ppm	0.2135 ppm
Concentration RSD	120.0 %	0.9 %	14.1 %	0.3 %	0.9 %	16.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0769 ppm	105.2247 %	103.2554 %	93.2723 %	142.3514 %	146.0656 %	145.9144 %
Concentration per Run 1	1.0839 ppm	105.0961 %	102.7635 %	93.4733 %	142.7416 %	145.3826 %	146.3910 %
Concentration per Run 2	1.0831 ppm	104.6831 %	102.7064 %	93.3478 %	141.0351 %	145.2670 %	146.2191 %
Concentration per Run 3	1.0639 ppm	105.8947 %	104.2964 %	92.9960 %	143.2774 %	147.5472 %	145.1331 %
Concentration RSD	1.0 %	0.6 %	0.9 %	0.3 %	0.8 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433059-07D2 WG1936048
Analysis started at: 6/19/2024 11:11:27 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0044 ppm	91.4669 ppm	0.0355 ppm	0.0936 ppm	2.8887 ppm	0.0170 ppm	29.8772 ppm
Concentration per Run 1	-0.0041 ppm	91.6072 ppm	0.0354 ppm	0.0951 ppm	2.8816 ppm	0.0170 ppm	29.8694 ppm
Concentration per Run 2	-0.0053 ppm	91.3344 ppm	0.0363 ppm	0.0922 ppm	2.8852 ppm	0.0169 ppm	29.8629 ppm
Concentration per Run 3	-0.0039 ppm	91.4592 ppm	0.0348 ppm	0.0935 ppm	2.8995 ppm	0.0171 ppm	29.8994 ppm
Concentration RSD	17.6 %	0.1 %	2.1 %	1.5 %	0.3 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0049 ppm	0.1265 ppm	0.2076 ppm	0.0853 ppm	312.8025 ppm	17.8684 ppm	0.5411 ppm
Concentration per Run 1	0.0050 ppm	0.1275 ppm	0.2096 ppm	0.0869 ppm	311.4683 ppm	17.9577 ppm	0.5451 ppm
Concentration per Run 2	0.0048 ppm	0.1268 ppm	0.2066 ppm	0.0840 ppm	312.0946 ppm	17.9169 ppm	0.5423 ppm
Concentration per Run 3	0.0050 ppm	0.1253 ppm	0.2066 ppm	0.0849 ppm	314.8444 ppm	17.7307 ppm	0.5359 ppm
Concentration RSD	2.7 %	0.9 %	0.8 %	1.7 %	0.6 %	0.7 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	87.6812 ppm	37.8519 ppm	0.0035 ppm	1.8237 ppm	0.6190 ppm	0.1808 ppm	0.0094 ppm
Concentration per Run 1	88.4268 ppm	37.8587 ppm	0.0036 ppm	1.8128 ppm	0.6228 ppm	0.1816 ppm	0.0083 ppm
Concentration per Run 2	87.3998 ppm	37.8319 ppm	0.0035 ppm	1.8341 ppm	0.6163 ppm	0.1801 ppm	0.0114 ppm
Concentration per Run 3	87.2171 ppm	37.8652 ppm	0.0034 ppm	1.8241 ppm	0.6180 ppm	0.1805 ppm	0.0087 ppm
Concentration RSD	0.7 %	0.0 %	2.8 %	0.6 %	0.5 %	0.4 %	18.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	5.4513 ppm	0.0036 ppm	0.2848 ppm	2.6952 ppm	0.0081 ppm	0.2238 ppm
Concentration per Run 1	-0.0006 ppm	5.4999 ppm	0.0041 ppm	0.2836 ppm	2.7163 ppm	0.0086 ppm	0.2247 ppm
Concentration per Run 2	-0.0014 ppm	5.4565 ppm	0.0035 ppm	0.2835 ppm	2.6856 ppm	0.0086 ppm	0.2236 ppm
Concentration per Run 3	0.0003 ppm	5.3976 ppm	0.0032 ppm	0.2874 ppm	2.6837 ppm	0.0072 ppm	0.2231 ppm
Concentration RSD	153.4 %	0.9 %	12.7 %	0.8 %	0.7 %	10.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3061 ppm	109.2522 %	107.3915 %	98.9112 %	**247.7782 %**	**253.7966 %**	**255.4218 %**
Concentration per Run 1	1.3135 ppm	108.8600 %	107.5569 %	98.7809 %	**247.2567 %**	**253.7698 %**	**255.1697 %**
Concentration per Run 2	1.3007 ppm	109.3903 %	107.5655 %	98.9419 %	**247.1304 %**	**254.5096 %**	**255.6626 %**
Concentration per Run 3	1.3042 ppm	109.5061 %	107.0522 %	99.0108 %	**248.9476 %**	**253.1106 %**	**255.4331 %**
Concentration RSD	0.5 %	0.3 %	0.3 %	0.1 %	**0.4 %**	**0.3 %**	**0.1 %**

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 11:15:26 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4852 ppm	0.4875 ppm	0.4904 ppm	0.4966 ppm	0.5061 ppm	0.4985 ppm
Concentration per Run 1	0.5094 ppm	0.4866 ppm	0.4908 ppm	0.4945 ppm	0.4965 ppm	0.5061 ppm	0.5014 ppm
Concentration per Run 2	0.5005 ppm	0.4806 ppm	0.4870 ppm	0.4921 ppm	0.4966 ppm	0.5056 ppm	0.4922 ppm
Concentration per Run 3	0.4974 ppm	0.4883 ppm	0.4846 ppm	0.4846 ppm	0.4968 ppm	0.5065 ppm	0.5018 ppm
Recovery Percentage 1	100.483 %	97.034 %	97.490 %	98.077 %	99.324 %	101.214 %	99.698 %
Concentration RSD	1.2 %	0.8 %	0.6 %	1.1 %	0.0 %	0.1 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5045 ppm	0.5070 ppm	0.4959 ppm	0.4898 ppm	0.5271 ppm	5.2658 ppm	0.4938 ppm
Concentration per Run 1	0.5088 ppm	0.5130 ppm	0.5017 ppm	0.4949 ppm	0.5279 ppm	5.2569 ppm	0.4939 ppm
Concentration per Run 2	0.5058 ppm	0.5078 ppm	0.4945 ppm	0.4896 ppm	0.5312 ppm	5.3031 ppm	0.4939 ppm
Concentration per Run 3	0.4990 ppm	0.5002 ppm	0.4914 ppm	0.4849 ppm	0.5221 ppm	5.2374 ppm	0.4935 ppm
Recovery Percentage 1	100.903 %	101.402 %	99.171 %	97.965 %	105.411 %	105.316 %	98.750 %
Concentration RSD	1.0 %	1.3 %	1.1 %	1.0 %	0.9 %	0.6 %	0.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4902 ppm	0.5037 ppm	0.4938 ppm	10.5845 ppm	0.5093 ppm	0.4931 ppm	0.4903 ppm
Concentration per Run 1	0.4971 ppm	0.5029 ppm	0.4925 ppm	10.6122 ppm	0.5108 ppm	0.4936 ppm	0.4972 ppm
Concentration per Run 2	0.4874 ppm	0.5028 ppm	0.4968 ppm	10.5659 ppm	0.5130 ppm	0.4914 ppm	0.4908 ppm
Concentration per Run 3	0.4860 ppm	0.5053 ppm	0.4920 ppm	10.5754 ppm	0.5042 ppm	0.4941 ppm	0.4830 ppm
Recovery Percentage 1	98.032 %	100.738 %	98.752 %	105.845 %	101.863 %	98.613 %	98.069 %
Concentration RSD	1.2 %	0.3 %	0.5 %	0.2 %	0.9 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4913 ppm	5.2322 ppm	0.5174 ppm	0.4999 ppm	0.5011 ppm	0.4937 ppm	0.4958 ppm
Concentration per Run 1	0.4940 ppm	5.2862 ppm	0.5225 ppm	0.4994 ppm	0.5077 ppm	0.4939 ppm	0.5025 ppm
Concentration per Run 2	0.4901 ppm	5.2388 ppm	0.5170 ppm	0.5005 ppm	0.5003 ppm	0.4961 ppm	0.4947 ppm
Concentration per Run 3	0.4898 ppm	5.1717 ppm	0.5127 ppm	0.5000 ppm	0.4953 ppm	0.4910 ppm	0.4903 ppm
Recovery Percentage 1	98.265 %	99.662 %	103.482 %	99.988 %	100.221 %	98.732 %	99.164 %
Concentration RSD	0.5 %	1.1 %	1.0 %	0.1 %	1.3 %	0.5 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5075 ppm	100.9924 %	101.4053 %	100.3887 %	96.0483 %	97.9576 %	97.8320 %
Concentration per Run 1	0.5126 ppm	99.8425 %	101.4270 %	100.2512 %	94.6607 %	98.0796 %	97.4640 %
Concentration per Run 2	0.5054 ppm	100.8689 %	101.6943 %	100.6404 %	96.1546 %	98.1575 %	98.1630 %
Concentration per Run 3	0.5046 ppm	102.2659 %	101.0947 %	100.2746 %	97.3295 %	97.6357 %	97.8690 %
Recovery Percentage 1	101.507 %						
Concentration RSD	0.9 %	1.2 %	0.3 %	0.2 %	1.4 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 11:19:23 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0056 ppm	-0.0010 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	-0.0007 ppm	-0.0070 ppm	-0.0030 ppm	-0.0008 ppm	-0.0005 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 2	-0.0005 ppm	-0.0142 ppm	0.0012 ppm	0.0002 ppm	-0.0005 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 3	-0.0008 ppm	0.0044 ppm	-0.0012 ppm	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0032 ppm
Recovery Percentage 1	-9.583 %	-5.615 %	-32.838 %	-1.050 %	-5.180 %	1.497 %	4.117 %
Concentration RSD	18.1 %	166.5 %	216.5 %	148.4 %	5.1 %	101.6 %	44.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0009 ppm	0.0052 ppm	-0.0673 ppm	-0.0045 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0008 ppm	0.0053 ppm	-0.0650 ppm	-0.0032 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0009 ppm	0.0061 ppm	-0.0545 ppm	-0.0039 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0043 ppm	-0.0825 ppm	-0.0065 ppm
Recovery Percentage 1	1.369 %	2.521 %	0.783 %	8.601 %	10.485 %	-2.693 %	-45.248 %
Concentration RSD	78.8 %	21.3 %	182.9 %	8.1 %	16.8 %	21.0 %	37.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0001 ppm	0.0004 ppm	0.0152 ppm	-0.0001 ppm	-0.0007 ppm	-0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0158 ppm	0.0000 ppm	-0.0006 ppm	-0.0049 ppm
Concentration per Run 2	-0.0012 ppm	-0.0003 ppm	0.0005 ppm	0.0152 ppm	-0.0004 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	0.0004 ppm	0.0146 ppm	0.0000 ppm	-0.0007 ppm	-0.0019 ppm
Recovery Percentage 1	-0.577 %	-0.904 %	0.877 %	0.760 %	-0.553 %	-6.803 %	-4.476 %
Concentration RSD	113.3 %	205.1 %	6.5 %	3.8 %	186.6 %	18.7 %	113.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0041 ppm	-0.0013 ppm	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	0.0043 ppm	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	-0.0022 ppm	0.0001 ppm
Concentration per Run 2	-0.0029 ppm	0.0034 ppm	-0.0009 ppm	-0.0001 ppm	0.0007 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	-0.0015 ppm	0.0044 ppm	-0.0019 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-15.072 %	0.810 %	-2.629 %	-0.709 %	2.445 %	-3.524 %	1.605 %
Concentration RSD	92.9 %	13.5 %	42.3 %	78.2 %	151.4 %	196.4 %	39.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	96.5827 %	99.1915 %	97.9872 %	97.5454 %	99.6317 %	99.2888 %
Concentration per Run 1	0.0010 ppm	94.6932 %	99.6457 %	97.9577 %	96.3636 %	100.3842 %	99.5044 %
Concentration per Run 2	0.0012 ppm	96.3319 %	99.1657 %	98.0678 %	97.3264 %	99.5511 %	99.4380 %
Concentration per Run 3	0.0012 ppm	98.7230 %	98.7633 %	97.9360 %	98.9461 %	98.9597 %	98.9238 %
Recovery Percentage 1	22.610 %						
Concentration RSD	8.6 %	2.1 %	0.4 %	0.1 %	1.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433061-01D2 WG1936048
Analysis started at: 6/19/2024 11:34:57 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	20.0509 ppm	0.0104 ppm	0.0172 ppm	1.2839 ppm	0.0009 ppm	57.8941 ppm
Concentration per Run 1	0.0032 ppm	19.9478 ppm	0.0099 ppm	0.0167 ppm	1.2805 ppm	0.0009 ppm	57.6806 ppm
Concentration per Run 2	0.0031 ppm	19.9973 ppm	0.0103 ppm	0.0167 ppm	1.2839 ppm	0.0009 ppm	57.7900 ppm
Concentration per Run 3	0.0033 ppm	20.2075 ppm	0.0110 ppm	0.0184 ppm	1.2872 ppm	0.0009 ppm	58.2117 ppm
Concentration RSD	3.0 %	0.7 %	5.6 %	5.7 %	0.3 %	2.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0131 ppm	0.1542 ppm	0.9522 ppm	105.1167 ppm	8.8036 ppm	0.0166 ppm
Concentration per Run 1	0.0028 ppm	0.0128 ppm	0.1498 ppm	0.9286 ppm	104.5439 ppm	8.8249 ppm	0.0190 ppm
Concentration per Run 2	0.0028 ppm	0.0130 ppm	0.1544 ppm	0.9546 ppm	105.1111 ppm	8.7976 ppm	0.0157 ppm
Concentration per Run 3	0.0030 ppm	0.0135 ppm	0.1585 ppm	0.9733 ppm	105.6950 ppm	8.7882 ppm	0.0152 ppm
Concentration RSD	5.6 %	2.7 %	2.8 %	2.4 %	0.5 %	0.2 %	12.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.1387 ppm	0.5645 ppm	0.0079 ppm	3.4684 ppm	0.1236 ppm	0.0694 ppm	0.0030 ppm
Concentration per Run 1	8.8923 ppm	0.5629 ppm	0.0077 ppm	3.4573 ppm	0.1200 ppm	0.0678 ppm	0.0026 ppm
Concentration per Run 2	9.1435 ppm	0.5639 ppm	0.0079 ppm	3.4628 ppm	0.1231 ppm	0.0706 ppm	-0.0007 ppm
Concentration per Run 3	9.3804 ppm	0.5667 ppm	0.0080 ppm	3.4849 ppm	0.1277 ppm	0.0699 ppm	0.0069 ppm
Concentration RSD	2.7 %	0.4 %	2.0 %	0.4 %	3.1 %	2.1 %	129.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0165 ppm	2.0034 ppm	0.0636 ppm	0.3562 ppm	0.2223 ppm	0.0008 ppm	0.0357 ppm
Concentration per Run 1	0.0157 ppm	1.9532 ppm	0.0615 ppm	0.3536 ppm	0.2158 ppm	0.0005 ppm	0.0348 ppm
Concentration per Run 2	0.0169 ppm	1.9992 ppm	0.0632 ppm	0.3564 ppm	0.2222 ppm	0.0010 ppm	0.0357 ppm
Concentration per Run 3	0.0169 ppm	2.0578 ppm	0.0661 ppm	0.3586 ppm	0.2288 ppm	0.0007 ppm	0.0366 ppm
Concentration RSD	4.1 %	2.6 %	3.7 %	0.7 %	2.9 %	30.9 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6513 ppm	124.3517 %	108.6895 %	108.1450 %	105.4519 %	103.8320 %	103.7744 %
Concentration per Run 1	1.5998 ppm	127.7687 %	108.4551 %	109.5290 %	105.2651 %	102.6829 %	103.8581 %
Concentration per Run 2	1.6530 ppm	124.2178 %	109.2780 %	108.2397 %	105.5032 %	104.6566 %	103.8151 %
Concentration per Run 3	1.7012 ppm	121.0687 %	108.3353 %	106.6664 %	105.5875 %	104.1564 %	103.6499 %
Concentration RSD	3.1 %	2.7 %	0.5 %	1.3 %	0.2 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433089-01D2 WG1936048
Analysis started at: 6/19/2024 11:39:06 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0019 ppm	68.1522 ppm	0.0458 ppm	0.0010 ppm	0.3190 ppm	0.0036 ppm	16.5374 ppm
Concentration per Run 1	-0.0018 ppm	67.3560 ppm	0.0471 ppm	0.0003 ppm	0.3157 ppm	0.0038 ppm	16.5538 ppm
Concentration per Run 2	-0.0022 ppm	67.3957 ppm	0.0446 ppm	0.0012 ppm	0.3152 ppm	0.0038 ppm	16.5976 ppm
Concentration per Run 3	-0.0018 ppm	69.7049 ppm	0.0458 ppm	0.0016 ppm	0.3263 ppm	0.0031 ppm	16.4609 ppm
Concentration RSD	12.7 %	2.0 %	2.7 %	62.0 %	2.0 %	10.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0485 ppm	0.1158 ppm	0.1173 ppm	117.9218 ppm	19.8954 ppm	0.1475 ppm
Concentration per Run 1	0.0002 ppm	0.0494 ppm	0.1171 ppm	0.1190 ppm	117.9369 ppm	19.3263 ppm	0.1459 ppm
Concentration per Run 2	0.0002 ppm	0.0491 ppm	0.1156 ppm	0.1163 ppm	117.7099 ppm	19.1905 ppm	0.1436 ppm
Concentration per Run 3	0.0001 ppm	0.0471 ppm	0.1147 ppm	0.1167 ppm	118.1186 ppm	21.1695 ppm	0.1529 ppm
Concentration RSD	25.7 %	2.5 %	1.0 %	1.2 %	0.2 %	5.6 %	3.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.6998 ppm	1.2753 ppm	0.0014 ppm	3.3628 ppm	0.0926 ppm	0.0523 ppm	-0.0008 ppm
Concentration per Run 1	27.0441 ppm	1.2693 ppm	0.0016 ppm	3.4181 ppm	0.0948 ppm	0.0535 ppm	-0.0019 ppm
Concentration per Run 2	26.6117 ppm	1.2701 ppm	0.0014 ppm	3.4219 ppm	0.0913 ppm	0.0517 ppm	0.0016 ppm
Concentration per Run 3	26.4434 ppm	1.2865 ppm	0.0013 ppm	3.2483 ppm	0.0916 ppm	0.0517 ppm	-0.0021 ppm
Concentration RSD	1.2 %	0.8 %	10.2 %	2.9 %	2.1 %	2.0 %	260.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	7.3424 ppm	0.0020 ppm	0.0703 ppm	4.5741 ppm	0.0038 ppm	0.1819 ppm
Concentration per Run 1	-0.0027 ppm	7.3904 ppm	0.0019 ppm	0.0711 ppm	4.6503 ppm	0.0047 ppm	0.1844 ppm
Concentration per Run 2	-0.0041 ppm	7.3478 ppm	0.0021 ppm	0.0712 ppm	4.5541 ppm	0.0037 ppm	0.1816 ppm
Concentration per Run 3	-0.0016 ppm	7.2889 ppm	0.0020 ppm	0.0686 ppm	4.5180 ppm	0.0030 ppm	0.1796 ppm
Concentration RSD	45.3 %	0.7 %	4.6 %	2.1 %	1.5 %	22.1 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2994 ppm	105.0332 %	103.4055 %	97.7211 %	115.9115 %	118.7874 %	120.0952 %
Concentration per Run 1	0.3045 ppm	103.7569 %	102.2877 %	97.4974 %	114.5634 %	118.4230 %	119.5515 %
Concentration per Run 2	0.2970 ppm	105.4787 %	100.7382 %	97.4064 %	116.3504 %	116.4896 %	119.9224 %
Concentration per Run 3	0.2967 ppm	105.8640 %	107.1907 %	98.2595 %	116.8208 %	121.4495 %	120.8117 %
Concentration RSD	1.5 %	1.1 %	3.3 %	0.5 %	1.0 %	2.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433089-02D2 WG1936048
Analysis started at: 6/19/2024 11:43:02 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0025 ppm	83.7990 ppm	0.0468 ppm	0.0021 ppm	0.4167 ppm	0.0045 ppm	17.7498 ppm
Concentration per Run 1	-0.0025 ppm	85.8223 ppm	0.0477 ppm	0.0021 ppm	0.4278 ppm	0.0040 ppm	17.6410 ppm
Concentration per Run 2	-0.0026 ppm	82.4407 ppm	0.0472 ppm	0.0037 ppm	0.4068 ppm	0.0048 ppm	17.7854 ppm
Concentration per Run 3	-0.0025 ppm	83.1341 ppm	0.0454 ppm	0.0003 ppm	0.4156 ppm	0.0047 ppm	17.8232 ppm
Concentration RSD	2.6 %	2.1 %	2.6 %	82.8 %	2.5 %	9.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0602 ppm	0.1375 ppm	0.1369 ppm	140.9222 ppm	24.6369 ppm	0.1701 ppm
Concentration per Run 1	0.0000 ppm	0.0611 ppm	0.1398 ppm	0.1394 ppm	141.0986 ppm	26.1465 ppm	0.1820 ppm
Concentration per Run 2	0.0001 ppm	0.0603 ppm	0.1375 ppm	0.1363 ppm	140.5073 ppm	23.7900 ppm	0.1652 ppm
Concentration per Run 3	0.0000 ppm	0.0593 ppm	0.1353 ppm	0.1351 ppm	141.1608 ppm	23.9743 ppm	0.1630 ppm
Concentration RSD	72.0 %	1.5 %	1.6 %	1.6 %	0.3 %	5.3 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.8451 ppm	1.6633 ppm	0.0043 ppm	4.8020 ppm	0.1126 ppm	0.0731 ppm	0.0000 ppm
Concentration per Run 1	32.3162 ppm	1.6737 ppm	0.0045 ppm	4.6477 ppm	0.1140 ppm	0.0729 ppm	-0.0010 ppm
Concentration per Run 2	31.7732 ppm	1.6534 ppm	0.0041 ppm	4.8921 ppm	0.1127 ppm	0.0740 ppm	0.0013 ppm
Concentration per Run 3	31.4458 ppm	1.6627 ppm	0.0044 ppm	4.8662 ppm	0.1110 ppm	0.0723 ppm	-0.0002 ppm
Concentration RSD	1.4 %	0.6 %	4.4 %	2.8 %	1.3 %	1.1 %	11,253.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	8.9488 ppm	0.0018 ppm	0.1010 ppm	5.5851 ppm	0.0051 ppm	0.2235 ppm
Concentration per Run 1	-0.0010 ppm	9.0312 ppm	0.0029 ppm	0.0990 ppm	5.6731 ppm	0.0051 ppm	0.2268 ppm
Concentration per Run 2	-0.0032 ppm	8.9700 ppm	0.0010 ppm	0.1020 ppm	5.5636 ppm	0.0055 ppm	0.2229 ppm
Concentration per Run 3	-0.0007 ppm	8.8452 ppm	0.0016 ppm	0.1020 ppm	5.5185 ppm	0.0047 ppm	0.2208 ppm
Concentration RSD	83.6 %	1.1 %	53.7 %	1.7 %	1.4 %	8.0 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3752 ppm	105.2566 %	103.7064 %	96.5574 %	118.7940 %	121.9811 %	123.8417 %
Concentration per Run 1	0.3811 ppm	104.3126 %	108.2322 %	97.2417 %	117.6353 %	125.5254 %	124.2408 %
Concentration per Run 2	0.3742 ppm	105.1950 %	101.0386 %	96.7229 %	118.6620 %	119.6548 %	124.3870 %
Concentration per Run 3	0.3703 ppm	106.2622 %	101.8484 %	95.7075 %	120.0847 %	120.7630 %	122.8974 %
Concentration RSD	1.5 %	0.9 %	3.8 %	0.8 %	1.0 %	2.6 %	0.7 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433126-01D2 WG1936048
Analysis started at: 6/19/2024 11:46:58 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0018 ppm	77.2396 ppm	0.0494 ppm	0.0963 ppm	0.4910 ppm	0.0051 ppm	421.7210 ppm
Concentration per Run 1	-0.0022 ppm	76.5426 ppm	0.0499 ppm	0.0983 ppm	0.4881 ppm	0.0053 ppm	422.4031 ppm
Concentration per Run 2	-0.0016 ppm	76.3126 ppm	0.0505 ppm	0.0968 ppm	0.4819 ppm	0.0054 ppm	426.0227 ppm
Concentration per Run 3	-0.0017 ppm	78.8636 ppm	0.0479 ppm	0.0937 ppm	0.5030 ppm	0.0046 ppm	416.7371 ppm
Concentration RSD	19.2 %	1.8 %	2.8 %	2.4 %	2.2 %	8.7 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0540 ppm	0.2275 ppm	0.4528 ppm	115.3372 ppm	5.6660 ppm	0.0792 ppm
Concentration per Run 1	0.0011 ppm	0.0548 ppm	0.2304 ppm	0.4611 ppm	116.1907 ppm	5.6327 ppm	0.0785 ppm
Concentration per Run 2	0.0012 ppm	0.0542 ppm	0.2267 ppm	0.4499 ppm	115.1437 ppm	5.4159 ppm	0.0749 ppm
Concentration per Run 3	0.0013 ppm	0.0530 ppm	0.2254 ppm	0.4472 ppm	114.6771 ppm	5.9492 ppm	0.0844 ppm
Concentration RSD	8.0 %	1.7 %	1.1 %	1.6 %	0.7 %	4.7 %	6.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	44.6347 ppm	2.4151 ppm	0.0128 ppm	6.5578 ppm	0.1566 ppm	0.5276 ppm	0.0048 ppm
Concentration per Run 1	45.1764 ppm	2.4096 ppm	0.0132 ppm	6.6169 ppm	0.1600 ppm	0.5300 ppm	0.0046 ppm
Concentration per Run 2	44.5075 ppm	2.4078 ppm	0.0128 ppm	6.7484 ppm	0.1555 ppm	0.5269 ppm	0.0052 ppm
Concentration per Run 3	44.2203 ppm	2.4279 ppm	0.0125 ppm	6.3081 ppm	0.1544 ppm	0.5259 ppm	0.0047 ppm
Concentration RSD	1.1 %	0.5 %	2.8 %	3.4 %	1.9 %	0.4 %	6.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	35.2743 ppm	0.0391 ppm	1.7008 ppm	4.2763 ppm	0.0042 ppm	0.2254 ppm
Concentration per Run 1	-0.0028 ppm	35.7332 ppm	0.0392 ppm	1.7219 ppm	4.3391 ppm	0.0053 ppm	0.2282 ppm
Concentration per Run 2	-0.0045 ppm	35.1235 ppm	0.0394 ppm	1.7339 ppm	4.2618 ppm	0.0047 ppm	0.2249 ppm
Concentration per Run 3	-0.0023 ppm	34.9661 ppm	0.0386 ppm	1.6466 ppm	4.2280 ppm	0.0024 ppm	0.2231 ppm
Concentration RSD	35.5 %	1.1 %	1.0 %	2.8 %	1.3 %	37.1 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2754 ppm	100.5451 %	100.9499 %	89.5247 %	110.5162 %	115.9399 %	113.7366 %
Concentration per Run 1	1.2924 ppm	99.8621 %	99.2605 %	89.4443 %	110.3394 %	114.4259 %	113.7384 %
Concentration per Run 2	1.2724 ppm	100.5891 %	96.9265 %	89.6598 %	110.3008 %	112.7744 %	113.6205 %
Concentration per Run 3	1.2615 ppm	101.1840 %	106.6626 %	89.4701 %	110.9084 %	120.6194 %	113.8507 %
Concentration RSD	1.2 %	0.7 %	5.0 %	0.1 %	0.3 %	3.6 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433128-02D2 WG1936048
Analysis started at: 6/19/2024 11:50:54 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0011 ppm	19.3170 ppm	0.0369 ppm	0.0433 ppm	0.0372 ppm	0.0019 ppm	19.7628 ppm
Concentration per Run 1	-0.0013 ppm	19.2966 ppm	0.0381 ppm	0.0431 ppm	0.0371 ppm	0.0019 ppm	19.7573 ppm
Concentration per Run 2	-0.0010 ppm	19.3770 ppm	0.0365 ppm	0.0431 ppm	0.0372 ppm	0.0019 ppm	19.7351 ppm
Concentration per Run 3	-0.0009 ppm	19.2775 ppm	0.0363 ppm	0.0436 ppm	0.0372 ppm	0.0019 ppm	19.7959 ppm
Concentration RSD	16.5 %	0.3 %	2.6 %	0.8 %	0.1 %	1.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0228 ppm	0.0879 ppm	0.0283 ppm	100.3173 ppm	4.0917 ppm	0.0515 ppm
Concentration per Run 1	0.0001 ppm	0.0236 ppm	0.0889 ppm	0.0292 ppm	100.4561 ppm	4.1083 ppm	0.0526 ppm
Concentration per Run 2	0.0001 ppm	0.0223 ppm	0.0879 ppm	0.0278 ppm	100.1503 ppm	4.1149 ppm	0.0509 ppm
Concentration per Run 3	0.0003 ppm	0.0226 ppm	0.0870 ppm	0.0280 ppm	100.3454 ppm	4.0520 ppm	0.0510 ppm
Concentration RSD	46.4 %	2.8 %	1.1 %	2.6 %	0.2 %	0.8 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2901 ppm	0.6797 ppm	0.0012 ppm	9.5146 ppm	0.0530 ppm	0.0214 ppm	-0.0009 ppm
Concentration per Run 1	11.4397 ppm	0.6794 ppm	0.0014 ppm	9.5425 ppm	0.0537 ppm	0.0218 ppm	-0.0011 ppm
Concentration per Run 2	11.2581 ppm	0.6800 ppm	0.0008 ppm	9.4769 ppm	0.0527 ppm	0.0208 ppm	-0.0018 ppm
Concentration per Run 3	11.1725 ppm	0.6797 ppm	0.0014 ppm	9.5244 ppm	0.0525 ppm	0.0217 ppm	0.0001 ppm
Concentration RSD	1.2 %	0.1 %	31.6 %	0.4 %	1.2 %	2.5 %	108.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	2.7365 ppm	0.0015 ppm	0.0783 ppm	0.5664 ppm	-0.0001 ppm	0.1003 ppm
Concentration per Run 1	-0.0009 ppm	2.7979 ppm	0.0014 ppm	0.0784 ppm	0.5733 ppm	0.0008 ppm	0.1018 ppm
Concentration per Run 2	0.0016 ppm	2.7246 ppm	0.0014 ppm	0.0784 ppm	0.5649 ppm	0.0004 ppm	0.1005 ppm
Concentration per Run 3	-0.0011 ppm	2.6871 ppm	0.0015 ppm	0.0782 ppm	0.5610 ppm	-0.0014 ppm	0.0986 ppm
Concentration RSD	1,088.5 %	2.1 %	5.6 %	0.2 %	1.1 %	1,691.5 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1497 ppm	102.4871 %	103.5833 %	100.1728 %	107.7086 %	110.1744 %	109.7133 %
Concentration per Run 1	0.1521 ppm	101.3504 %	103.1001 %	100.0315 %	107.1778 %	109.9756 %	109.6535 %
Concentration per Run 2	0.1494 ppm	102.6057 %	104.3190 %	100.1179 %	107.4327 %	110.4696 %	109.9037 %
Concentration per Run 3	0.1475 ppm	103.5051 %	103.3310 %	100.3691 %	108.5152 %	110.0781 %	109.5825 %
Concentration RSD	1.5 %	1.1 %	0.6 %	0.2 %	0.7 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-01D2 WG1936048
Analysis started at: 6/19/2024 11:54:51 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0020 ppm	87.0577 ppm	0.0260 ppm	0.0404 ppm	0.7566 ppm	0.0056 ppm	11.4882 ppm
Concentration per Run 1	-0.0018 ppm	87.7845 ppm	0.0254 ppm	0.0403 ppm	0.7567 ppm	0.0057 ppm	11.5984 ppm
Concentration per Run 2	-0.0022 ppm	86.9910 ppm	0.0261 ppm	0.0402 ppm	0.7633 ppm	0.0056 ppm	11.4811 ppm
Concentration per Run 3	-0.0018 ppm	86.3975 ppm	0.0264 ppm	0.0408 ppm	0.7499 ppm	0.0055 ppm	11.3851 ppm
Concentration RSD	12.2 %	0.8 %	2.1 %	0.8 %	0.9 %	1.2 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0700 ppm	0.1549 ppm	0.1693 ppm	184.2982 ppm	9.0430 ppm	0.1733 ppm
Concentration per Run 1	0.0004 ppm	0.0710 ppm	0.1564 ppm	0.1711 ppm	184.8648 ppm	9.0747 ppm	0.1753 ppm
Concentration per Run 2	0.0006 ppm	0.0693 ppm	0.1549 ppm	0.1688 ppm	184.3973 ppm	9.0539 ppm	0.1690 ppm
Concentration per Run 3	0.0002 ppm	0.0699 ppm	0.1534 ppm	0.1679 ppm	183.6325 ppm	9.0004 ppm	0.1757 ppm
Concentration RSD	45.0 %	1.2 %	1.0 %	1.0 %	0.3 %	0.4 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.4543 ppm	5.3545 ppm	0.0025 ppm	0.9758 ppm	0.1403 ppm	0.1261 ppm	0.0026 ppm
Concentration per Run 1	32.8726 ppm	5.3974 ppm	0.0027 ppm	0.9834 ppm	0.1422 ppm	0.1263 ppm	0.0039 ppm
Concentration per Run 2	32.4205 ppm	5.3587 ppm	0.0023 ppm	0.9755 ppm	0.1393 ppm	0.1266 ppm	-0.0004 ppm
Concentration per Run 3	32.0698 ppm	5.3072 ppm	0.0026 ppm	0.9684 ppm	0.1395 ppm	0.1255 ppm	0.0042 ppm
Concentration RSD	1.2 %	0.8 %	8.0 %	0.8 %	1.2 %	0.4 %	99.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.0696 ppm	0.0048 ppm	0.0733 ppm	2.3413 ppm	0.0050 ppm	0.2378 ppm
Concentration per Run 1	-0.0014 ppm	5.1250 ppm	0.0050 ppm	0.0736 ppm	2.3769 ppm	0.0063 ppm	0.2404 ppm
Concentration per Run 2	-0.0022 ppm	5.0566 ppm	0.0056 ppm	0.0732 ppm	2.3336 ppm	0.0032 ppm	0.2376 ppm
Concentration per Run 3	-0.0008 ppm	5.0273 ppm	0.0038 ppm	0.0732 ppm	2.3133 ppm	0.0056 ppm	0.2354 ppm
Concentration RSD	47.0 %	1.0 %	19.5 %	0.3 %	1.4 %	32.9 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3449 ppm	106.6321 %	104.3684 %	100.1491 %	128.0177 %	129.0310 %	131.4166 %
Concentration per Run 1	0.3500 ppm	105.7320 %	103.4471 %	99.8215 %	127.3376 %	128.0558 %	130.9510 %
Concentration per Run 2	0.3436 ppm	106.6641 %	104.4024 %	100.4940 %	128.0361 %	129.2188 %	132.0519 %
Concentration per Run 3	0.3411 ppm	107.5003 %	105.2556 %	100.1319 %	128.6794 %	129.8185 %	131.2469 %
Concentration RSD	1.3 %	0.8 %	0.9 %	0.3 %	0.5 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-02D2 WG1936048
Analysis started at: 6/19/2024 11:58:48 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0023 ppm	94.2129 ppm	0.0280 ppm	0.0386 ppm	0.5839 ppm	0.0057 ppm	23.4859 ppm
Concentration per Run 1	-0.0022 ppm	94.5383 ppm	0.0275 ppm	0.0392 ppm	0.5884 ppm	0.0058 ppm	23.5511 ppm
Concentration per Run 2	-0.0027 ppm	94.4764 ppm	0.0283 ppm	0.0387 ppm	0.5833 ppm	0.0057 ppm	23.5911 ppm
Concentration per Run 3	-0.0018 ppm	93.6241 ppm	0.0282 ppm	0.0379 ppm	0.5800 ppm	0.0056 ppm	23.3156 ppm
Concentration RSD	21.4 %	0.5 %	1.6 %	1.7 %	0.7 %	1.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0674 ppm	0.1502 ppm	0.2255 ppm	185.0619 ppm	8.7887 ppm	0.1649 ppm
Concentration per Run 1	0.0007 ppm	0.0685 ppm	0.1514 ppm	0.2284 ppm	186.7312 ppm	8.8822 ppm	0.1679 ppm
Concentration per Run 2	0.0007 ppm	0.0676 ppm	0.1502 ppm	0.2248 ppm	185.3738 ppm	8.7727 ppm	0.1619 ppm
Concentration per Run 3	0.0010 ppm	0.0660 ppm	0.1491 ppm	0.2234 ppm	183.0806 ppm	8.7111 ppm	0.1650 ppm
Concentration RSD	22.7 %	1.8 %	0.8 %	1.1 %	1.0 %	1.0 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.3167 ppm	4.3772 ppm	0.0030 ppm	1.0195 ppm	0.1559 ppm	0.3498 ppm	0.0029 ppm
Concentration per Run 1	35.8358 ppm	4.3972 ppm	0.0027 ppm	1.0227 ppm	0.1583 ppm	0.3493 ppm	0.0028 ppm
Concentration per Run 2	35.1322 ppm	4.3880 ppm	0.0027 ppm	1.0252 ppm	0.1557 ppm	0.3505 ppm	0.0042 ppm
Concentration per Run 3	34.9821 ppm	4.3464 ppm	0.0036 ppm	1.0105 ppm	0.1537 ppm	0.3495 ppm	0.0018 ppm
Concentration RSD	1.3 %	0.6 %	17.4 %	0.8 %	1.5 %	0.2 %	40.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	5.7007 ppm	0.0132 ppm	0.0876 ppm	1.9411 ppm	0.0048 ppm	0.2331 ppm
Concentration per Run 1	-0.0017 ppm	5.7671 ppm	0.0129 ppm	0.0887 ppm	1.9703 ppm	0.0040 ppm	0.2369 ppm
Concentration per Run 2	0.0024 ppm	5.6738 ppm	0.0134 ppm	0.0877 ppm	1.9342 ppm	0.0067 ppm	0.2334 ppm
Concentration per Run 3	0.0007 ppm	5.6614 ppm	0.0133 ppm	0.0864 ppm	1.9189 ppm	0.0036 ppm	0.2290 ppm
Concentration RSD	483.6 %	1.0 %	2.1 %	1.3 %	1.4 %	35.0 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4840 ppm	106.5663 %	103.3890 %	100.2856 %	131.0685 %	132.1581 %	136.0669 %
Concentration per Run 1	0.4914 ppm	105.1961 %	103.3619 %	100.1067 %	130.0901 %	132.5120 %	136.0737 %
Concentration per Run 2	0.4838 ppm	106.7315 %	102.9847 %	100.4355 %	130.9373 %	131.4959 %	136.0638 %
Concentration per Run 3	0.4768 ppm	107.7713 %	103.8205 %	100.3147 %	132.1781 %	132.4664 %	136.0633 %
Concentration RSD	1.5 %	1.2 %	0.4 %	0.2 %	0.8 %	0.4 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433148-03D2 WG1936048
Analysis started at: 6/19/2024 12:02:45 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	118.1906 ppm	0.0502 ppm	0.0312 ppm	1.0424 ppm	0.0063 ppm	26.7554 ppm
Concentration per Run 1	-0.0010 ppm	118.6099 ppm	0.0514 ppm	0.0320 ppm	1.0469 ppm	0.0064 ppm	26.7384 ppm
Concentration per Run 2	-0.0011 ppm	118.2917 ppm	0.0491 ppm	0.0299 ppm	1.0456 ppm	0.0063 ppm	26.7562 ppm
Concentration per Run 3	-0.0008 ppm	117.6702 ppm	0.0501 ppm	0.0319 ppm	1.0349 ppm	0.0063 ppm	26.7715 ppm
Concentration RSD	15.7 %	0.4 %	2.3 %	3.8 %	0.6 %	0.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0625 ppm	0.1608 ppm	0.2741 ppm	172.4359 ppm	6.6770 ppm	0.1224 ppm
Concentration per Run 1	0.0031 ppm	0.0627 ppm	0.1628 ppm	0.2774 ppm	173.4440 ppm	6.7308 ppm	0.1252 ppm
Concentration per Run 2	0.0033 ppm	0.0626 ppm	0.1610 ppm	0.2728 ppm	172.6814 ppm	6.6838 ppm	0.1234 ppm
Concentration per Run 3	0.0033 ppm	0.0622 ppm	0.1586 ppm	0.2720 ppm	171.1824 ppm	6.6164 ppm	0.1186 ppm
Concentration RSD	3.0 %	0.4 %	1.3 %	1.1 %	0.7 %	0.9 %	2.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.0584 ppm	4.3849 ppm	0.0044 ppm	1.1583 ppm	0.1258 ppm	1.7731 ppm	0.0052 ppm
Concentration per Run 1	27.4898 ppm	4.3964 ppm	0.0046 ppm	1.1547 ppm	0.1269 ppm	1.7619 ppm	0.0057 ppm
Concentration per Run 2	26.9624 ppm	4.3852 ppm	0.0044 ppm	1.1580 ppm	0.1258 ppm	1.7901 ppm	0.0062 ppm
Concentration per Run 3	26.7231 ppm	4.3732 ppm	0.0042 ppm	1.1621 ppm	0.1246 ppm	1.7673 ppm	0.0038 ppm
Concentration RSD	1.4 %	0.3 %	4.8 %	0.3 %	0.9 %	0.8 %	24.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	6.1762 ppm	0.0422 ppm	0.1617 ppm	1.8237 ppm	0.0041 ppm	0.2512 ppm
Concentration per Run 1	0.0018 ppm	6.2315 ppm	0.0444 ppm	0.1625 ppm	1.8489 ppm	0.0040 ppm	0.2563 ppm
Concentration per Run 2	0.0017 ppm	6.1526 ppm	0.0420 ppm	0.1617 ppm	1.8163 ppm	0.0028 ppm	0.2491 ppm
Concentration per Run 3	0.0002 ppm	6.1444 ppm	0.0402 ppm	0.1610 ppm	1.8059 ppm	0.0055 ppm	0.2482 ppm
Concentration RSD	71.1 %	0.8 %	5.0 %	0.5 %	1.2 %	33.2 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4943 ppm	104.6945 %	107.7176 %	98.6121 %	146.0337 %	153.3407 %	150.8488 %
Concentration per Run 1	1.5182 ppm	103.1764 %	108.5168 %	99.0619 %	143.9658 %	154.3517 %	151.4721 %
Concentration per Run 2	1.4909 ppm	105.0091 %	107.3422 %	98.2810 %	146.4930 %	152.7512 %	150.3727 %
Concentration per Run 3	1.4737 ppm	105.8981 %	107.2939 %	98.4932 %	147.6423 %	152.9192 %	150.7017 %
Concentration RSD	1.5 %	1.3 %	0.6 %	0.4 %	1.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433149-01D2 WG1936048
Analysis started at: 6/19/2024 12:06:42 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	91.6375 ppm	0.0387 ppm	0.1213 ppm	0.5797 ppm	0.0055 ppm	37.9126 ppm
Concentration per Run 1	0.0020 ppm	91.4308 ppm	0.0410 ppm	0.1219 ppm	0.5774 ppm	0.0055 ppm	37.8850 ppm
Concentration per Run 2	0.0023 ppm	91.8222 ppm	0.0365 ppm	0.1215 ppm	0.5815 ppm	0.0055 ppm	37.9687 ppm
Concentration per Run 3	0.0015 ppm	91.6595 ppm	0.0385 ppm	0.1204 ppm	0.5802 ppm	0.0055 ppm	37.8840 ppm
Concentration RSD	19.5 %	0.2 %	5.8 %	0.6 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0032 ppm	0.0804 ppm	0.1838 ppm	0.3491 ppm	220.0254 ppm	8.6335 ppm	0.1931 ppm
Concentration per Run 1	0.0031 ppm	0.0815 ppm	0.1861 ppm	0.3534 ppm	219.5120 ppm	8.6264 ppm	0.1931 ppm
Concentration per Run 2	0.0032 ppm	0.0805 ppm	0.1836 ppm	0.3499 ppm	220.4317 ppm	8.6209 ppm	0.1956 ppm
Concentration per Run 3	0.0032 ppm	0.0793 ppm	0.1816 ppm	0.3442 ppm	220.1326 ppm	8.6532 ppm	0.1907 ppm
Concentration RSD	1.2 %	1.3 %	1.2 %	1.3 %	0.2 %	0.2 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.1041 ppm	4.0231 ppm	0.0050 ppm	3.9873 ppm	0.1593 ppm	0.6627 ppm	0.0072 ppm
Concentration per Run 1	37.6760 ppm	4.0154 ppm	0.0051 ppm	3.9947 ppm	0.1616 ppm	0.6663 ppm	0.0078 ppm
Concentration per Run 2	36.9885 ppm	4.0298 ppm	0.0047 ppm	3.9853 ppm	0.1598 ppm	0.6613 ppm	0.0041 ppm
Concentration per Run 3	36.6477 ppm	4.0239 ppm	0.0052 ppm	3.9818 ppm	0.1564 ppm	0.6605 ppm	0.0097 ppm
Concentration RSD	1.4 %	0.2 %	4.6 %	0.2 %	1.7 %	0.5 %	39.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.7417 ppm	0.0191 ppm	0.1929 ppm	2.4649 ppm	0.0035 ppm	0.2846 ppm
Concentration per Run 1	-0.0033 ppm	5.7813 ppm	0.0196 ppm	0.1926 ppm	2.5050 ppm	0.0036 ppm	0.2898 ppm
Concentration per Run 2	0.0004 ppm	5.7634 ppm	0.0181 ppm	0.1930 ppm	2.4556 ppm	0.0031 ppm	0.2824 ppm
Concentration per Run 3	-0.0016 ppm	5.6802 ppm	0.0194 ppm	0.1931 ppm	2.4341 ppm	0.0037 ppm	0.2816 ppm
Concentration RSD	121.2 %	0.9 %	4.3 %	0.1 %	1.5 %	9.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8591 ppm	105.1081 %	108.3113 %	97.8208 %	119.5883 %	126.9027 %	124.0625 %
Concentration per Run 1	0.8663 ppm	103.8040 %	109.1340 %	97.8465 %	118.0180 %	128.1777 %	124.3016 %
Concentration per Run 2	0.8594 ppm	105.6474 %	107.3298 %	98.3039 %	120.4444 %	125.4683 %	124.5035 %
Concentration per Run 3	0.8516 ppm	105.8730 %	108.4702 %	97.3118 %	120.3024 %	127.0621 %	123.3824 %
Concentration RSD	0.9 %	1.1 %	0.8 %	0.5 %	1.1 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433162-01D2 WG1936048
Analysis started at: 6/19/2024 12:10:39 PM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	84.5789 ppm	0.0616 ppm	0.0114 ppm	0.4789 ppm	0.0036 ppm	198.0720 ppm
Concentration per Run 1	-0.0003 ppm	84.6081 ppm	0.0629 ppm	0.0108 ppm	0.4768 ppm	0.0036 ppm	197.9720 ppm
Concentration per Run 2	-0.0002 ppm	84.5237 ppm	0.0619 ppm	0.0116 ppm	0.4776 ppm	0.0035 ppm	198.1535 ppm
Concentration per Run 3	-0.0010 ppm	84.6049 ppm	0.0599 ppm	0.0119 ppm	0.4823 ppm	0.0036 ppm	198.0905 ppm
Concentration RSD	85.5 %	0.1 %	2.5 %	5.1 %	0.6 %	1.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0887 ppm	0.1037 ppm	0.2318 ppm	207.0492 ppm	6.3350 ppm	0.1769 ppm
Concentration per Run 1	0.0018 ppm	0.0897 ppm	0.1053 ppm	0.2336 ppm	206.6171 ppm	6.3827 ppm	0.1804 ppm
Concentration per Run 2	0.0019 ppm	0.0882 ppm	0.1033 ppm	0.2313 ppm	206.4822 ppm	6.2907 ppm	0.1747 ppm
Concentration per Run 3	0.0018 ppm	0.0882 ppm	0.1026 ppm	0.2303 ppm	208.0485 ppm	6.3316 ppm	0.1755 ppm
Concentration RSD	2.6 %	1.0 %	1.3 %	0.7 %	0.4 %	0.7 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	107.7603 ppm	6.3773 ppm	0.0040 ppm	0.4036 ppm	0.1657 ppm	0.1555 ppm	0.0050 ppm
Concentration per Run 1	109.1759 ppm	6.3773 ppm	0.0034 ppm	0.4002 ppm	0.1684 ppm	0.1559 ppm	0.0072 ppm
Concentration per Run 2	107.5992 ppm	6.3754 ppm	0.0040 ppm	0.4077 ppm	0.1653 ppm	0.1561 ppm	0.0046 ppm
Concentration per Run 3	106.5058 ppm	6.3790 ppm	0.0046 ppm	0.4028 ppm	0.1634 ppm	0.1546 ppm	0.0032 ppm
Concentration RSD	1.2 %	0.0 %	14.9 %	0.9 %	1.5 %	0.5 %	40.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	6.5389 ppm	0.0041 ppm	0.2436 ppm	0.4089 ppm	0.0029 ppm	0.0992 ppm
Concentration per Run 1	-0.0006 ppm	6.6041 ppm	0.0033 ppm	0.2429 ppm	0.4117 ppm	0.0037 ppm	0.0999 ppm
Concentration per Run 2	-0.0033 ppm	6.5257 ppm	0.0050 ppm	0.2428 ppm	0.4105 ppm	0.0031 ppm	0.0988 ppm
Concentration per Run 3	-0.0032 ppm	6.4869 ppm	0.0040 ppm	0.2451 ppm	0.4044 ppm	0.0019 ppm	0.0990 ppm
Concentration RSD	65.4 %	0.9 %	21.6 %	0.5 %	1.0 %	32.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6179 ppm	102.1258 %	104.9354 %	93.3836 %	117.7049 %	123.2463 %	118.0319 %
Concentration per Run 1	0.6244 ppm	101.2549 %	104.7873 %	93.5548 %	116.9629 %	123.2226 %	118.1794 %
Concentration per Run 2	0.6157 ppm	102.3800 %	104.8483 %	93.6027 %	118.0646 %	122.8387 %	118.2755 %
Concentration per Run 3	0.6135 ppm	102.7424 %	105.1705 %	92.9933 %	118.0871 %	123.6776 %	117.6408 %
Concentration RSD	0.9 %	0.8 %	0.2 %	0.4 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 12:14:37 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4880 ppm	0.4811 ppm	0.4789 ppm	0.4814 ppm	0.4929 ppm	0.5081 ppm	0.4949 ppm
Concentration per Run 1	0.4897 ppm	0.4770 ppm	0.4801 ppm	0.4810 ppm	0.4905 ppm	0.5064 ppm	0.4917 ppm
Concentration per Run 2	0.4883 ppm	0.4852 ppm	0.4789 ppm	0.4834 ppm	0.4937 ppm	0.5094 ppm	0.4954 ppm
Concentration per Run 3	0.4861 ppm	0.4811 ppm	0.4776 ppm	0.4799 ppm	0.4944 ppm	0.5086 ppm	0.4975 ppm
Recovery Percentage 1	97.609 %	96.218 %	95.777 %	96.286 %	98.578 %	101.622 %	98.978 %
Concentration RSD	0.4 %	0.9 %	0.3 %	0.4 %	0.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4913 ppm	0.4981 ppm	0.4841 ppm	0.4741 ppm	0.5299 ppm	5.2627 ppm	0.4951 ppm
Concentration per Run 1	0.4926 ppm	0.4984 ppm	0.4862 ppm	0.4752 ppm	0.5346 ppm	5.2524 ppm	0.4909 ppm
Concentration per Run 2	0.4910 ppm	0.4984 ppm	0.4847 ppm	0.4736 ppm	0.5273 ppm	5.2817 ppm	0.4994 ppm
Concentration per Run 3	0.4904 ppm	0.4976 ppm	0.4814 ppm	0.4735 ppm	0.5277 ppm	5.2540 ppm	0.4950 ppm
Recovery Percentage 1	98.266 %	99.622 %	96.818 %	94.813 %	105.976 %	105.254 %	99.022 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.2 %	0.8 %	0.3 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4830 ppm	0.4988 ppm	0.4838 ppm	10.6033 ppm	0.4998 ppm	0.4853 ppm	0.4767 ppm
Concentration per Run 1	0.4868 ppm	0.4988 ppm	0.4805 ppm	10.6335 ppm	0.5030 ppm	0.4869 ppm	0.4765 ppm
Concentration per Run 2	0.4805 ppm	0.4992 ppm	0.4848 ppm	10.6007 ppm	0.4992 ppm	0.4856 ppm	0.4839 ppm
Concentration per Run 3	0.4818 ppm	0.4983 ppm	0.4862 ppm	10.5756 ppm	0.4972 ppm	0.4833 ppm	0.4697 ppm
Recovery Percentage 1	96.604 %	99.752 %	96.767 %	106.033 %	99.962 %	97.052 %	95.335 %
Concentration RSD	0.7 %	0.1 %	0.6 %	0.3 %	0.6 %	0.4 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4833 ppm	5.0565 ppm	0.5103 ppm	0.4963 ppm	0.4875 ppm	0.4775 ppm	0.4853 ppm
Concentration per Run 1	0.4823 ppm	5.0547 ppm	0.5128 ppm	0.4958 ppm	0.4894 ppm	0.4769 ppm	0.4881 ppm
Concentration per Run 2	0.4824 ppm	5.0697 ppm	0.5086 ppm	0.4974 ppm	0.4875 ppm	0.4774 ppm	0.4848 ppm
Concentration per Run 3	0.4851 ppm	5.0449 ppm	0.5094 ppm	0.4958 ppm	0.4857 ppm	0.4783 ppm	0.4831 ppm
Recovery Percentage 1	96.652 %	96.314 %	102.052 %	99.267 %	97.508 %	95.509 %	97.067 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.2 %	0.4 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	103.9660 %	102.0332 %	101.8557 %	98.9489 %	98.9008 %	100.2947 %
Concentration per Run 1	0.5050 ppm	102.9090 %	101.4459 %	101.6797 %	97.8325 %	98.6007 %	100.2508 %
Concentration per Run 2	0.5037 ppm	104.6338 %	102.0275 %	101.5394 %	99.5417 %	98.6572 %	100.0392 %
Concentration per Run 3	0.5010 ppm	104.3552 %	102.6261 %	102.3480 %	99.4725 %	99.4446 %	100.5941 %
Recovery Percentage 1	100.643 %						
Concentration RSD	0.4 %	0.9 %	0.6 %	0.4 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 12:18:34 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	-0.0030 ppm	0.0002 ppm	-0.0005 ppm	-0.0005 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 1	-0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0000 ppm	0.0139 ppm
Concentration per Run 2	-0.0006 ppm	-0.0051 ppm	-0.0003 ppm	-0.0010 ppm	-0.0005 ppm	0.0000 ppm	0.0088 ppm
Concentration per Run 3	-0.0011 ppm	-0.0035 ppm	0.0008 ppm	-0.0015 ppm	-0.0004 ppm	0.0001 ppm	0.0048 ppm
Recovery Percentage 1	-10.998 %	-2.950 %	7.431 %	-1.746 %	-4.552 %	1.142 %	9.190 %
Concentration RSD	37.8 %	84.5 %	235.8 %	236.1 %	17.0 %	49.1 %	49.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	0.0068 ppm	-0.0731 ppm	-0.0004 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0063 ppm	-0.0920 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0066 ppm	-0.0503 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0076 ppm	-0.0771 ppm	-0.0010 ppm
Recovery Percentage 1	2.195 %	-1.214 %	1.002 %	7.553 %	13.662 %	-2.925 %	-3.945 %
Concentration RSD	62.3 %	62.0 %	37.5 %	71.0 %	10.0 %	28.9 %	186.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0001 ppm	0.0003 ppm	0.0257 ppm	-0.0003 ppm	-0.0013 ppm	0.0010 ppm
Concentration per Run 1	-0.0027 ppm	-0.0003 ppm	0.0002 ppm	0.0307 ppm	-0.0003 ppm	-0.0017 ppm	0.0011 ppm
Concentration per Run 2	-0.0036 ppm	-0.0001 ppm	0.0007 ppm	0.0283 ppm	0.0000 ppm	-0.0015 ppm	0.0016 ppm
Concentration per Run 3	0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0180 ppm	-0.0005 ppm	-0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-1.860 %	-1.486 %	0.689 %	1.283 %	-1.076 %	-12.558 %	1.968 %
Concentration RSD	125.7 %	63.7 %	82.9 %	26.3 %	88.7 %	50.4 %	74.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0026 ppm	-0.0006 ppm	-0.0001 ppm	0.0009 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	-0.0012 ppm	0.0021 ppm	-0.0006 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0024 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	-0.0006 ppm
Concentration per Run 3	-0.0008 ppm	0.0032 ppm	-0.0012 ppm	0.0000 ppm	0.0015 ppm	0.0005 ppm	-0.0003 ppm
Recovery Percentage 1	-7.189 %	0.514 %	-1.262 %	-1.210 %	8.846 %	2.409 %	-2.909 %
Concentration RSD	80.4 %	23.1 %	94.3 %	55.6 %	63.2 %	99.2 %	83.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	96.3653 %	98.3028 %	98.0894 %	98.4192 %	99.0691 %	100.5636 %
Concentration per Run 1	0.0016 ppm	94.6494 %	98.5614 %	98.0374 %	97.6166 %	99.5376 %	100.7672 %
Concentration per Run 2	0.0011 ppm	96.8158 %	97.6880 %	97.7161 %	98.8177 %	98.6182 %	100.1098 %
Concentration per Run 3	0.0010 ppm	97.6307 %	98.6589 %	98.5147 %	98.8234 %	99.0515 %	100.8138 %
Recovery Percentage 1	24.798 %						
Concentration RSD	26.8 %	1.6 %	0.5 %	0.4 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: LDR 100 Mn
Analysis started at: 6/19/2024 12:31:30 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0022 ppm	-0.0040 ppm	0.0018 ppm	-0.0010 ppm	-0.0005 ppm	0.0001 ppm	0.0092 ppm
Concentration per Run 1	-0.0025 ppm	0.0002 ppm	0.0010 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0088 ppm
Concentration per Run 2	-0.0020 ppm	-0.0063 ppm	0.0011 ppm	-0.0014 ppm	-0.0007 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 3	-0.0022 ppm	-0.0058 ppm	0.0035 ppm	-0.0017 ppm	-0.0003 ppm	0.0001 ppm	0.0096 ppm
Concentration RSD	12.3 %	90.6 %	77.3 %	100.4 %	35.1 %	37.3 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0060 ppm	-0.0038 ppm	-0.0623 ppm	-0.0030 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0017 ppm	-0.0063 ppm	-0.0054 ppm	-0.0607 ppm	-0.0043 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0015 ppm	-0.0058 ppm	-0.0027 ppm	-0.0653 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0016 ppm	-0.0060 ppm	-0.0032 ppm	-0.0609 ppm	-0.0037 ppm
Concentration RSD	14.8 %	54.1 %	6.2 %	3.8 %	37.9 %	4.2 %	61.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0238 ppm	92.7777 ppm	-0.0011 ppm	0.0279 ppm	-0.0010 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	0.0229 ppm	92.2438 ppm	-0.0012 ppm	0.0264 ppm	-0.0004 ppm	0.0006 ppm	-0.0021 ppm
Concentration per Run 2	0.0233 ppm	92.8777 ppm	-0.0008 ppm	0.0281 ppm	-0.0015 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	0.0251 ppm	93.2116 ppm	-0.0014 ppm	0.0293 ppm	-0.0011 ppm	-0.0006 ppm	-0.0017 ppm
Concentration RSD	4.8 %	0.5 %	24.4 %	5.3 %	57.2 %	9,226.3 %	29.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	0.0065 ppm	-0.0013 ppm	-0.0001 ppm	0.0008 ppm	0.0163 ppm	-0.0044 ppm
Concentration per Run 1	0.0004 ppm	0.0094 ppm	-0.0020 ppm	0.0000 ppm	0.0008 ppm	0.0163 ppm	-0.0043 ppm
Concentration per Run 2	0.0043 ppm	0.0061 ppm	-0.0011 ppm	-0.0003 ppm	0.0009 ppm	0.0168 ppm	-0.0043 ppm
Concentration per Run 3	0.0025 ppm	0.0041 ppm	-0.0008 ppm	-0.0001 ppm	0.0007 ppm	0.0158 ppm	-0.0045 ppm
Concentration RSD	82.8 %	41.1 %	46.2 %	115.6 %	10.3 %	3.0 %	3.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	116.4255 %	106.5331 %	110.0777 %	103.2151 %	100.2687 %	105.3473 %
Concentration per Run 1	0.0004 ppm	117.1716 %	107.5467 %	110.6326 %	102.7356 %	101.3229 %	105.3476 %
Concentration per Run 2	0.0004 ppm	116.5855 %	106.3123 %	109.8333 %	103.4570 %	99.8935 %	105.3157 %
Concentration per Run 3	0.0003 ppm	115.5195 %	105.7404 %	109.7672 %	103.4527 %	99.5898 %	105.3786 %
Concentration RSD	18.8 %	0.7 %	0.9 %	0.4 %	0.4 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-01D10 WG1936048
Analysis started at: 6/19/2024 12:40:38 PM
Rack 1
Vial 49
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0125 ppm	0.7207 ppm	0.0192 ppm	0.0055 ppm	0.1716 ppm	0.0000 ppm	1.0330 ppm
Concentration per Run 1	0.0123 ppm	0.7098 ppm	0.0191 ppm	0.0049 ppm	0.1711 ppm	0.0000 ppm	1.0285 ppm
Concentration per Run 2	0.0122 ppm	0.7220 ppm	0.0182 ppm	0.0057 ppm	0.1721 ppm	0.0000 ppm	1.0319 ppm
Concentration per Run 3	0.0128 ppm	0.7305 ppm	0.0202 ppm	0.0059 ppm	0.1715 ppm	0.0000 ppm	1.0387 ppm
Concentration RSD	2.4 %	1.4 %	5.2 %	9.7 %	0.3 %	33.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0031 ppm	0.0014 ppm	0.1967 ppm	0.1017 ppm	14.1036 ppm	0.0611 ppm	-0.0025 ppm
Concentration per Run 1	0.0030 ppm	0.0013 ppm	0.1944 ppm	0.1002 ppm	14.0723 ppm	0.0557 ppm	-0.0024 ppm
Concentration per Run 2	0.0032 ppm	0.0015 ppm	0.1958 ppm	0.1020 ppm	14.1349 ppm	0.0635 ppm	-0.0020 ppm
Concentration per Run 3	0.0031 ppm	0.0016 ppm	0.1998 ppm	0.1030 ppm	14.1035 ppm	0.0642 ppm	-0.0031 ppm
Concentration RSD	2.0 %	11.3 %	1.4 %	1.4 %	0.2 %	7.7 %	23.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1765 ppm	0.0368 ppm	0.0071 ppm	2.1857 ppm	0.0438 ppm	63.2421 ppm	0.5846 ppm
Concentration per Run 1	1.1611 ppm	0.0367 ppm	0.0067 ppm	2.1710 ppm	0.0432 ppm	62.4905 ppm	0.5740 ppm
Concentration per Run 2	1.1776 ppm	0.0370 ppm	0.0074 ppm	2.1830 ppm	0.0437 ppm	63.2010 ppm	0.5821 ppm
Concentration per Run 3	1.1909 ppm	0.0368 ppm	0.0073 ppm	2.2031 ppm	0.0446 ppm	64.0348 ppm	0.5977 ppm
Concentration RSD	1.3 %	0.3 %	5.6 %	0.7 %	1.6 %	1.2 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0136 ppm	0.3299 ppm	0.1579 ppm	0.0140 ppm	0.0158 ppm	-0.0001 ppm	0.0331 ppm
Concentration per Run 1	0.0118 ppm	0.3264 ppm	0.1550 ppm	0.0137 ppm	0.0162 ppm	0.0009 ppm	0.0327 ppm
Concentration per Run 2	0.0140 ppm	0.3330 ppm	0.1568 ppm	0.0141 ppm	0.0151 ppm	-0.0011 ppm	0.0331 ppm
Concentration per Run 3	0.0151 ppm	0.3303 ppm	0.1618 ppm	0.0141 ppm	0.0162 ppm	-0.0001 ppm	0.0337 ppm
Concentration RSD	12.2 %	1.0 %	2.3 %	1.6 %	3.9 %	883.5 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1320 ppm	124.0080 %	109.0954 %	114.8340 %	103.8372 %	100.5003 %	103.3461 %
Concentration per Run 1	0.1301 ppm	125.6142 %	110.2809 %	115.8533 %	102.7786 %	101.4101 %	102.9195 %
Concentration per Run 2	0.1318 ppm	123.8784 %	109.0551 %	114.8180 %	103.9689 %	100.3505 %	103.3690 %
Concentration per Run 3	0.1341 ppm	122.5315 %	107.9502 %	113.8306 %	104.7642 %	99.7402 %	103.7498 %
Concentration RSD	1.5 %	1.2 %	1.1 %	0.9 %	1.0 %	0.8 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D10 WG1936048
Analysis started at: 6/19/2024 12:44:49 PM
Rack 1
Vial 50
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0280 ppm	1.3053 ppm	0.0347 ppm	0.0189 ppm	0.1196 ppm	0.0001 ppm	5.7044 ppm
Concentration per Run 1	0.0286 ppm	1.3269 ppm	0.0349 ppm	0.0201 ppm	0.1197 ppm	0.0000 ppm	5.7077 ppm
Concentration per Run 2	0.0280 ppm	1.2966 ppm	0.0337 ppm	0.0181 ppm	0.1194 ppm	0.0001 ppm	5.7133 ppm
Concentration per Run 3	0.0274 ppm	1.2925 ppm	0.0355 ppm	0.0186 ppm	0.1197 ppm	0.0001 ppm	5.6923 ppm
Concentration RSD	2.1 %	1.4 %	2.5 %	5.5 %	0.2 %	54.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0178 ppm	0.0073 ppm	0.4167 ppm	0.1921 ppm	18.3441 ppm	0.1060 ppm	-0.0035 ppm
Concentration per Run 1	0.0182 ppm	0.0075 ppm	0.4261 ppm	0.1963 ppm	18.2658 ppm	0.1234 ppm	-0.0022 ppm
Concentration per Run 2	0.0177 ppm	0.0070 ppm	0.4131 ppm	0.1912 ppm	18.3152 ppm	0.0800 ppm	-0.0048 ppm
Concentration per Run 3	0.0175 ppm	0.0075 ppm	0.4110 ppm	0.1887 ppm	18.4512 ppm	0.1144 ppm	-0.0036 ppm
Concentration RSD	1.9 %	3.9 %	2.0 %	2.0 %	0.5 %	21.6 %	36.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2276 ppm	0.1481 ppm	0.0118 ppm	5.0035 ppm	0.1567 ppm	120.3331 ppm	0.7622 ppm
Concentration per Run 1	4.3220 ppm	0.1487 ppm	0.0119 ppm	4.9852 ppm	0.1604 ppm	120.5971 ppm	0.7761 ppm
Concentration per Run 2	4.1968 ppm	0.1478 ppm	0.0116 ppm	5.0223 ppm	0.1565 ppm	120.1536 ppm	0.7592 ppm
Concentration per Run 3	4.1640 ppm	0.1478 ppm	0.0118 ppm	5.0031 ppm	0.1533 ppm	120.2486 ppm	0.7513 ppm
Concentration RSD	2.0 %	0.3 %	1.2 %	0.4 %	2.3 %	0.2 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0245 ppm	0.4325 ppm	0.5315 ppm	0.0304 ppm	0.0353 ppm	0.0014 ppm	0.1630 ppm
Concentration per Run 1	0.0249 ppm	0.4408 ppm	0.5427 ppm	0.0305 ppm	0.0346 ppm	0.0021 ppm	0.1667 ppm
Concentration per Run 2	0.0245 ppm	0.4314 ppm	0.5309 ppm	0.0305 ppm	0.0376 ppm	0.0004 ppm	0.1619 ppm
Concentration per Run 3	0.0240 ppm	0.4253 ppm	0.5209 ppm	0.0302 ppm	0.0336 ppm	0.0019 ppm	0.1604 ppm
Concentration RSD	1.9 %	1.8 %	2.1 %	0.6 %	5.8 %	65.6 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9217 ppm	101.1599 %	102.4774 %	100.8389 %	99.1482 %	100.4454 %	100.0353 %
Concentration per Run 1	0.9392 ppm	99.3611 %	102.6373 %	100.8316 %	97.9293 %	100.4828 %	100.2593 %
Concentration per Run 2	0.9173 ppm	101.9834 %	101.6549 %	100.4107 %	100.0184 %	99.9164 %	99.6045 %
Concentration per Run 3	0.9085 ppm	102.1351 %	103.1400 %	101.2744 %	99.4968 %	100.9371 %	100.2421 %
Concentration RSD	1.7 %	1.5 %	0.7 %	0.4 %	1.1 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432998-01D20 WG1936048
Analysis started at: 6/19/2024 12:49:58 PM
Rack 2
Vial 4
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0076 ppm	0.3980 ppm	0.0119 ppm	0.0046 ppm	0.0950 ppm	0.0001 ppm	0.5768 ppm
Concentration per Run 1	0.0074 ppm	0.3958 ppm	0.0116 ppm	0.0059 ppm	0.0943 ppm	0.0001 ppm	0.5731 ppm
Concentration per Run 2	0.0077 ppm	0.4028 ppm	0.0123 ppm	0.0036 ppm	0.0956 ppm	0.0001 ppm	0.5761 ppm
Concentration per Run 3	0.0078 ppm	0.3955 ppm	0.0119 ppm	0.0042 ppm	0.0952 ppm	0.0000 ppm	0.5812 ppm
Concentration RSD	2.5 %	1.0 %	3.0 %	26.0 %	0.7 %	54.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0010 ppm	0.1218 ppm	0.0630 ppm	7.8009 ppm	-0.0011 ppm	-0.0019 ppm
Concentration per Run 1	0.0019 ppm	0.0013 ppm	0.1234 ppm	0.0643 ppm	7.7523 ppm	-0.0088 ppm	-0.0008 ppm
Concentration per Run 2	0.0020 ppm	0.0007 ppm	0.1217 ppm	0.0624 ppm	7.8358 ppm	-0.0138 ppm	-0.0021 ppm
Concentration per Run 3	0.0019 ppm	0.0009 ppm	0.1204 ppm	0.0622 ppm	7.8146 ppm	0.0194 ppm	-0.0029 ppm
Concentration RSD	0.9 %	30.6 %	1.2 %	1.8 %	0.6 %	1,675.2 %	53.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.7336 ppm	0.0205 ppm	0.0039 ppm	1.2241 ppm	0.0273 ppm	36.1977 ppm	0.3722 ppm
Concentration per Run 1	0.7443 ppm	0.0205 ppm	0.0039 ppm	1.2155 ppm	0.0282 ppm	36.4721 ppm	0.3787 ppm
Concentration per Run 2	0.7314 ppm	0.0205 ppm	0.0036 ppm	1.2252 ppm	0.0268 ppm	36.0859 ppm	0.3691 ppm
Concentration per Run 3	0.7250 ppm	0.0206 ppm	0.0041 ppm	1.2315 ppm	0.0269 ppm	36.0352 ppm	0.3688 ppm
Concentration RSD	1.3 %	0.5 %	6.8 %	0.7 %	2.8 %	0.7 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	0.2142 ppm	0.0987 ppm	0.0077 ppm	0.0099 ppm	-0.0004 ppm	0.0205 ppm
Concentration per Run 1	0.0082 ppm	0.2125 ppm	0.1002 ppm	0.0077 ppm	0.0102 ppm	0.0007 ppm	0.0208 ppm
Concentration per Run 2	0.0081 ppm	0.2109 ppm	0.0986 ppm	0.0077 ppm	0.0102 ppm	-0.0003 ppm	0.0205 ppm
Concentration per Run 3	0.0060 ppm	0.2193 ppm	0.0972 ppm	0.0078 ppm	0.0093 ppm	-0.0015 ppm	0.0202 ppm
Concentration RSD	16.9 %	2.1 %	1.5 %	1.1 %	5.2 %	312.1 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0830 ppm	99.9657 %	102.0350 %	101.3060 %	98.9923 %	100.7229 %	101.4472 %
Concentration per Run 1	0.0837 ppm	97.8485 %	101.4448 %	100.7056 %	97.8178 %	100.2202 %	101.3120 %
Concentration per Run 2	0.0831 ppm	100.5114 %	101.2696 %	101.6568 %	99.6916 %	99.9398 %	101.7156 %
Concentration per Run 3	0.0823 ppm	101.5374 %	103.3905 %	101.5557 %	99.4676 %	102.0089 %	101.3140 %
Concentration RSD	0.9 %	1.9 %	1.2 %	0.5 %	1.0 %	1.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: xL2432998-02D20 WG1936048
Analysis started at: 6/19/2024 12:53:56 PM
Rack 2
Vial 5
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0137 ppm	0.6500 ppm	0.0154 ppm	0.0091 ppm	0.0605 ppm	0.0001 ppm	2.8641 ppm
Concentration per Run 1	0.0141 ppm	0.6448 ppm	0.0155 ppm	0.0095 ppm	0.0613 ppm	0.0001 ppm	2.8670 ppm
Concentration per Run 2	0.0134 ppm	0.6582 ppm	0.0156 ppm	0.0088 ppm	0.0601 ppm	0.0001 ppm	2.8694 ppm
Concentration per Run 3	0.0137 ppm	0.6470 ppm	0.0152 ppm	0.0091 ppm	0.0601 ppm	0.0001 ppm	2.8558 ppm
Concentration RSD	2.3 %	1.1 %	1.3 %	4.1 %	1.2 %	16.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0091 ppm	0.0036 ppm	0.2105 ppm	0.0971 ppm	9.2139 ppm	0.0275 ppm	-0.0036 ppm
Concentration per Run 1	0.0092 ppm	0.0040 ppm	0.2150 ppm	0.0995 ppm	9.1980 ppm	0.0433 ppm	-0.0037 ppm
Concentration per Run 2	0.0092 ppm	0.0030 ppm	0.2097 ppm	0.0968 ppm	9.2192 ppm	0.0244 ppm	-0.0025 ppm
Concentration per Run 3	0.0088 ppm	0.0037 ppm	0.2068 ppm	0.0952 ppm	9.2246 ppm	0.0148 ppm	-0.0047 ppm
Concentration RSD	2.4 %	14.9 %	2.0 %	2.3 %	0.2 %	52.7 %	30.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1470 ppm	0.0750 ppm	0.0056 ppm	2.5489 ppm	0.0798 ppm	61.6598 ppm	0.3887 ppm
Concentration per Run 1	2.1999 ppm	0.0752 ppm	0.0058 ppm	2.5430 ppm	0.0812 ppm	61.9378 ppm	0.4000 ppm
Concentration per Run 2	2.1390 ppm	0.0750 ppm	0.0055 ppm	2.5495 ppm	0.0797 ppm	61.5751 ppm	0.3850 ppm
Concentration per Run 3	2.1021 ppm	0.0747 ppm	0.0053 ppm	2.5541 ppm	0.0785 ppm	61.4665 ppm	0.3812 ppm
Concentration RSD	2.3 %	0.3 %	4.7 %	0.2 %	1.7 %	0.4 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0112 ppm	0.2160 ppm	0.2703 ppm	0.0151 ppm	0.0180 ppm	-0.0002 ppm	0.0821 ppm
Concentration per Run 1	0.0121 ppm	0.2264 ppm	0.2747 ppm	0.0150 ppm	0.0186 ppm	-0.0013 ppm	0.0840 ppm
Concentration per Run 2	0.0111 ppm	0.2106 ppm	0.2726 ppm	0.0151 ppm	0.0178 ppm	0.0010 ppm	0.0820 ppm
Concentration per Run 3	0.0106 ppm	0.2109 ppm	0.2638 ppm	0.0151 ppm	0.0175 ppm	-0.0003 ppm	0.0803 ppm
Concentration RSD	6.8 %	4.2 %	2.1 %	0.4 %	3.3 %	603.6 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4648 ppm	100.5745 %	102.4938 %	101.4111 %	98.8621 %	100.9918 %	101.2804 %
Concentration per Run 1	0.4757 ppm	98.1874 %	102.7038 %	101.0200 %	97.3967 %	101.1418 %	101.1093 %
Concentration per Run 2	0.4639 ppm	101.0643 %	102.6446 %	101.5122 %	99.2742 %	100.9506 %	101.4705 %
Concentration per Run 3	0.4548 ppm	102.4717 %	102.1330 %	101.7012 %	99.9155 %	100.8831 %	101.2615 %
Concentration RSD	2.3 %	2.2 %	0.3 %	0.3 %	1.3 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-01D2 WG1936224
Analysis started at: 6/19/2024 12:57:53 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	57.6479 ppm	0.0309 ppm	0.0095 ppm	0.2839 ppm	0.0031 ppm	12.7642 ppm
Concentration per Run 1	-0.0008 ppm	57.8704 ppm	0.0318 ppm	0.0094 ppm	0.2847 ppm	0.0031 ppm	12.8138 ppm
Concentration per Run 2	-0.0005 ppm	57.4744 ppm	0.0313 ppm	0.0104 ppm	0.2832 ppm	0.0031 ppm	12.6757 ppm
Concentration per Run 3	-0.0005 ppm	57.5988 ppm	0.0294 ppm	0.0088 ppm	0.2839 ppm	0.0032 ppm	12.8030 ppm
Concentration RSD	32.9 %	0.4 %	4.1 %	8.3 %	0.3 %	1.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0360 ppm	0.1254 ppm	0.1748 ppm	107.3568 ppm	7.5739 ppm	0.0925 ppm
Concentration per Run 1	0.0013 ppm	0.0370 ppm	0.1268 ppm	0.1776 ppm	107.4792 ppm	7.6259 ppm	0.0924 ppm
Concentration per Run 2	0.0012 ppm	0.0360 ppm	0.1250 ppm	0.1744 ppm	106.9530 ppm	7.5725 ppm	0.0941 ppm
Concentration per Run 3	0.0012 ppm	0.0351 ppm	0.1244 ppm	0.1724 ppm	107.6382 ppm	7.5234 ppm	0.0910 ppm
Concentration RSD	5.6 %	2.5 %	1.0 %	1.5 %	0.3 %	0.7 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.1465 ppm	1.8892 ppm	0.0040 ppm	0.7841 ppm	0.0786 ppm	0.4712 ppm	0.0040 ppm
Concentration per Run 1	18.4501 ppm	1.8914 ppm	0.0044 ppm	0.8083 ppm	0.0803 ppm	0.4704 ppm	0.0039 ppm
Concentration per Run 2	18.1244 ppm	1.8816 ppm	0.0036 ppm	0.7771 ppm	0.0771 ppm	0.4690 ppm	0.0030 ppm
Concentration per Run 3	17.8651 ppm	1.8947 ppm	0.0039 ppm	0.7668 ppm	0.0785 ppm	0.4743 ppm	0.0049 ppm
Concentration RSD	1.6 %	0.4 %	9.6 %	2.8 %	2.0 %	0.6 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	10.8600 ppm	0.0480 ppm	0.0680 ppm	2.4200 ppm	0.0018 ppm	0.1239 ppm
Concentration per Run 1	-0.0006 ppm	11.0901 ppm	0.0483 ppm	0.0682 ppm	2.4654 ppm	0.0044 ppm	0.1256 ppm
Concentration per Run 2	0.0009 ppm	11.1408 ppm	0.0484 ppm	0.0677 ppm	2.4142 ppm	0.0015 ppm	0.1238 ppm
Concentration per Run 3	0.0007 ppm	10.3493 ppm	0.0471 ppm	0.0681 ppm	2.3805 ppm	-0.0004 ppm	0.1224 ppm
Concentration RSD	231.7 %	4.1 %	1.6 %	0.4 %	1.8 %	134.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5504 ppm	104.2671 %	107.3518 %	98.8487 %	130.0158 %	136.3110 %	133.4285 %
Concentration per Run 1	0.5592 ppm	102.6222 %	106.6928 %	99.0616 %	128.4482 %	135.8872 %	133.6660 %
Concentration per Run 2	0.5483 ppm	104.6248 %	108.0086 %	98.9053 %	130.8871 %	137.1930 %	133.6843 %
Concentration per Run 3	0.5437 ppm	105.5544 %	107.3541 %	98.5792 %	130.7120 %	135.8528 %	132.9353 %
Concentration RSD	1.4 %	1.4 %	0.6 %	0.2 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-02D2 WG1936224
Analysis started at: 6/19/2024 1:01:50 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	72.3575 ppm	0.0316 ppm	0.0071 ppm	0.1490 ppm	0.0025 ppm	4.3671 ppm
Concentration per Run 1	-0.0005 ppm	72.4900 ppm	0.0299 ppm	0.0074 ppm	0.1506 ppm	0.0025 ppm	4.3786 ppm
Concentration per Run 2	-0.0011 ppm	72.2855 ppm	0.0343 ppm	0.0068 ppm	0.1482 ppm	0.0026 ppm	4.3618 ppm
Concentration per Run 3	-0.0008 ppm	72.2970 ppm	0.0305 ppm	0.0070 ppm	0.1482 ppm	0.0025 ppm	4.3608 ppm
Concentration RSD	34.0 %	0.2 %	7.7 %	4.6 %	0.9 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0184 ppm	0.0858 ppm	0.0463 ppm	85.8223 ppm	4.3757 ppm	0.0564 ppm
Concentration per Run 1	0.0006 ppm	0.0185 ppm	0.0871 ppm	0.0473 ppm	85.9108 ppm	4.4763 ppm	0.0573 ppm
Concentration per Run 2	0.0005 ppm	0.0186 ppm	0.0856 ppm	0.0457 ppm	86.1584 ppm	4.3168 ppm	0.0559 ppm
Concentration per Run 3	0.0004 ppm	0.0180 ppm	0.0846 ppm	0.0458 ppm	85.3978 ppm	4.3342 ppm	0.0560 ppm
Concentration RSD	15.1 %	1.7 %	1.5 %	1.9 %	0.5 %	2.0 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7605 ppm	1.1530 ppm	0.0031 ppm	0.4928 ppm	0.0361 ppm	0.1860 ppm	-0.0019 ppm
Concentration per Run 1	9.9189 ppm	1.1539 ppm	0.0029 ppm	0.5104 ppm	0.0366 ppm	0.1843 ppm	-0.0001 ppm
Concentration per Run 2	9.7243 ppm	1.1571 ppm	0.0034 ppm	0.4877 ppm	0.0360 ppm	0.1859 ppm	0.0017 ppm
Concentration per Run 3	9.6382 ppm	1.1480 ppm	0.0030 ppm	0.4804 ppm	0.0357 ppm	0.1876 ppm	-0.0072 ppm
Concentration RSD	1.5 %	0.4 %	9.1 %	3.2 %	1.3 %	0.9 %	252.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0029 ppm	14.8895 ppm	0.0062 ppm	0.0322 ppm	2.5494 ppm	0.0033 ppm	0.1198 ppm
Concentration per Run 1	0.0019 ppm	15.2089 ppm	0.0059 ppm	0.0326 ppm	2.6003 ppm	0.0039 ppm	0.1215 ppm
Concentration per Run 2	0.0040 ppm	14.7892 ppm	0.0066 ppm	0.0321 ppm	2.5345 ppm	0.0025 ppm	0.1193 ppm
Concentration per Run 3	0.0026 ppm	14.6705 ppm	0.0062 ppm	0.0320 ppm	2.5134 ppm	0.0033 ppm	0.1185 ppm
Concentration RSD	37.0 %	1.9 %	5.9 %	1.0 %	1.8 %	21.3 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1676 ppm	104.4455 %	107.2672 %	98.8782 %	121.0713 %	126.5152 %	123.7165 %
Concentration per Run 1	0.1702 ppm	102.7813 %	107.6439 %	98.3370 %	119.9853 %	127.4835 %	123.2951 %
Concentration per Run 2	0.1674 ppm	104.9172 %	106.9464 %	98.8471 %	121.3396 %	125.7431 %	123.9013 %
Concentration per Run 3	0.1650 ppm	105.6379 %	107.2114 %	99.4504 %	121.8889 %	126.3191 %	123.9529 %
Concentration RSD	1.6 %	1.4 %	0.3 %	0.6 %	0.8 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2434455-03D2 WG1936224
Analysis started at: 6/19/2024 1:05:48 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	79.2192 ppm	0.0352 ppm	0.0080 ppm	0.3020 ppm	0.0042 ppm	14.6419 ppm
Concentration per Run 1	-0.0009 ppm	79.3410 ppm	0.0382 ppm	0.0076 ppm	0.3019 ppm	0.0042 ppm	14.6767 ppm
Concentration per Run 2	-0.0010 ppm	79.0626 ppm	0.0323 ppm	0.0087 ppm	0.3032 ppm	0.0042 ppm	14.6567 ppm
Concentration per Run 3	-0.0007 ppm	79.2539 ppm	0.0352 ppm	0.0078 ppm	0.3008 ppm	0.0042 ppm	14.5925 ppm
Concentration RSD	17.7 %	0.2 %	8.3 %	7.2 %	0.4 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0335 ppm	0.1262 ppm	0.1061 ppm	124.2747 ppm	8.9876 ppm	0.1015 ppm
Concentration per Run 1	0.0011 ppm	0.0340 ppm	0.1280 ppm	0.1073 ppm	124.5751 ppm	9.0480 ppm	0.1038 ppm
Concentration per Run 2	0.0012 ppm	0.0328 ppm	0.1255 ppm	0.1054 ppm	123.8166 ppm	8.9962 ppm	0.1008 ppm
Concentration per Run 3	0.0012 ppm	0.0336 ppm	0.1252 ppm	0.1057 ppm	124.4325 ppm	8.9185 ppm	0.1000 ppm
Concentration RSD	4.5 %	2.0 %	1.2 %	0.9 %	0.3 %	0.7 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.4192 ppm	2.0683 ppm	0.0066 ppm	1.2760 ppm	0.0718 ppm	0.2181 ppm	0.0017 ppm
Concentration per Run 1	20.6562 ppm	2.0720 ppm	0.0070 ppm	1.2858 ppm	0.0733 ppm	0.2183 ppm	-0.0012 ppm
Concentration per Run 2	20.3311 ppm	2.0638 ppm	0.0065 ppm	1.2734 ppm	0.0713 ppm	0.2179 ppm	0.0012 ppm
Concentration per Run 3	20.2702 ppm	2.0690 ppm	0.0062 ppm	1.2687 ppm	0.0709 ppm	0.2180 ppm	0.0052 ppm
Concentration RSD	1.0 %	0.2 %	6.1 %	0.7 %	1.8 %	0.1 %	186.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	15.4736 ppm	0.0084 ppm	0.0669 ppm	4.0594 ppm	0.0022 ppm	0.1593 ppm
Concentration per Run 1	0.0009 ppm	15.9061 ppm	0.0082 ppm	0.0670 ppm	4.1143 ppm	0.0022 ppm	0.1610 ppm
Concentration per Run 2	0.0004 ppm	15.3861 ppm	0.0087 ppm	0.0668 ppm	4.0459 ppm	0.0027 ppm	0.1586 ppm
Concentration per Run 3	-0.0015 ppm	15.1285 ppm	0.0084 ppm	0.0669 ppm	4.0180 ppm	0.0018 ppm	0.1584 ppm
Concentration RSD	4,655.5 %	2.6 %	2.8 %	0.1 %	1.2 %	20.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3590 ppm	105.1678 %	106.5180 %	95.9933 %	133.8552 %	138.4623 %	136.2183 %
Concentration per Run 1	0.3629 ppm	104.2927 %	106.7452 %	96.2027 %	133.0833 %	138.7482 %	136.5114 %
Concentration per Run 2	0.3582 ppm	105.8136 %	106.9857 %	95.9980 %	134.8268 %	138.5577 %	136.1599 %
Concentration per Run 3	0.3560 ppm	105.3970 %	105.8230 %	95.7793 %	133.6556 %	138.0810 %	135.9835 %
Concentration RSD	1.0 %	0.7 %	0.6 %	0.2 %	0.7 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432998-02D40 WG1936048
Analysis started at: 6/19/2024 1:09:45 PM
Rack 2
Vial 6
Comment Pb LDR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	0.3306 ppm	0.0082 ppm	0.0041 ppm	0.0294 ppm	0.0000 ppm	1.4295 ppm
Concentration per Run 1	0.0068 ppm	0.3295 ppm	0.0083 ppm	0.0043 ppm	0.0294 ppm	0.0001 ppm	1.4283 ppm
Concentration per Run 2	0.0069 ppm	0.3311 ppm	0.0079 ppm	0.0045 ppm	0.0296 ppm	0.0000 ppm	1.4302 ppm
Concentration per Run 3	0.0067 ppm	0.3313 ppm	0.0084 ppm	0.0035 ppm	0.0292 ppm	0.0000 ppm	1.4301 ppm
Concentration RSD	1.3 %	0.3 %	3.3 %	12.6 %	0.6 %	39.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0046 ppm	0.0015 ppm	0.1064 ppm	0.0493 ppm	4.5670 ppm	-0.0046 ppm	-0.0051 ppm
Concentration per Run 1	0.0046 ppm	0.0021 ppm	0.1092 ppm	0.0508 ppm	4.5750 ppm	-0.0044 ppm	-0.0041 ppm
Concentration per Run 2	0.0046 ppm	0.0015 ppm	0.1055 ppm	0.0489 ppm	4.5748 ppm	-0.0131 ppm	-0.0061 ppm
Concentration per Run 3	0.0046 ppm	0.0010 ppm	0.1044 ppm	0.0483 ppm	4.5510 ppm	0.0036 ppm	-0.0051 ppm
Concentration RSD	0.5 %	36.8 %	2.4 %	2.6 %	0.3 %	179.8 %	19.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.0816 ppm	0.0375 ppm	0.0023 ppm	1.2776 ppm	0.0396 ppm	31.2887 ppm	0.1952 ppm
Concentration per Run 1	1.1107 ppm	0.0375 ppm	0.0024 ppm	1.2835 ppm	0.0403 ppm	31.5887 ppm	0.1995 ppm
Concentration per Run 2	1.0754 ppm	0.0377 ppm	0.0025 ppm	1.2766 ppm	0.0391 ppm	31.3216 ppm	0.1915 ppm
Concentration per Run 3	1.0586 ppm	0.0373 ppm	0.0019 ppm	1.2726 ppm	0.0394 ppm	30.9557 ppm	0.1946 ppm
Concentration RSD	2.5 %	0.5 %	13.9 %	0.4 %	1.6 %	1.0 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0065 ppm	0.1383 ppm	0.1361 ppm	0.0075 ppm	0.0118 ppm	0.0011 ppm	0.0408 ppm
Concentration per Run 1	0.0057 ppm	0.1531 ppm	0.1406 ppm	0.0076 ppm	0.0159 ppm	0.0016 ppm	0.0418 ppm
Concentration per Run 2	0.0083 ppm	0.1343 ppm	0.1341 ppm	0.0074 ppm	0.0102 ppm	0.0004 ppm	0.0408 ppm
Concentration per Run 3	0.0054 ppm	0.1275 ppm	0.1335 ppm	0.0075 ppm	0.0093 ppm	0.0013 ppm	0.0399 ppm
Concentration RSD	24.6 %	9.6 %	2.9 %	1.5 %	30.5 %	59.1 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2335 ppm	100.3426 %	103.1088 %	101.4605 %	99.3189 %	101.5742 %	101.7848 %
Concentration per Run 1	0.2403 ppm	98.3117 %	103.0837 %	101.4283 %	98.3614 %	102.0149 %	101.9194 %
Concentration per Run 2	0.2306 ppm	100.5344 %	102.3716 %	101.0155 %	99.2077 %	100.9210 %	101.4073 %
Concentration per Run 3	0.2296 ppm	102.1817 %	103.8712 %	101.9378 %	100.3875 %	101.7868 %	102.0277 %
Concentration RSD	2.5 %	1.9 %	0.7 %	0.5 %	1.0 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 1:22:53 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4951 ppm	0.4837 ppm	0.4844 ppm	0.4840 ppm	0.4917 ppm	0.5068 ppm	0.4989 ppm
Concentration per Run 1	0.5002 ppm	0.4781 ppm	0.4841 ppm	0.4894 ppm	0.4918 ppm	0.5060 ppm	0.5019 ppm
Concentration per Run 2	0.4947 ppm	0.4873 ppm	0.4838 ppm	0.4828 ppm	0.4925 ppm	0.5072 ppm	0.4982 ppm
Concentration per Run 3	0.4902 ppm	0.4856 ppm	0.4852 ppm	0.4798 ppm	0.4907 ppm	0.5073 ppm	0.4966 ppm
Recovery Percentage 1	99.014 %	96.732 %	96.872 %	96.794 %	98.334 %	101.365 %	99.780 %
Concentration RSD	1.0 %	1.0 %	0.1 %	1.0 %	0.2 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4986 ppm	0.5014 ppm	0.4905 ppm	0.4845 ppm	0.5184 ppm	5.2501 ppm	0.4871 ppm
Concentration per Run 1	0.5050 ppm	0.5070 ppm	0.4971 ppm	0.4897 ppm	0.5158 ppm	5.2707 ppm	0.4901 ppm
Concentration per Run 2	0.4989 ppm	0.5007 ppm	0.4891 ppm	0.4830 ppm	0.5213 ppm	5.2587 ppm	0.4899 ppm
Concentration per Run 3	0.4918 ppm	0.4965 ppm	0.4851 ppm	0.4809 ppm	0.5181 ppm	5.2209 ppm	0.4814 ppm
Recovery Percentage 1	99.715 %	100.273 %	98.092 %	96.903 %	103.673 %	105.002 %	97.426 %
Concentration RSD	1.3 %	1.1 %	1.2 %	0.9 %	0.5 %	0.5 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4888 ppm	0.5033 ppm	0.4891 ppm	10.5697 ppm	0.5058 ppm	0.4879 ppm	0.4856 ppm
Concentration per Run 1	0.4923 ppm	0.5026 ppm	0.4920 ppm	10.5744 ppm	0.5103 ppm	0.4910 ppm	0.4947 ppm
Concentration per Run 2	0.4897 ppm	0.5035 ppm	0.4875 ppm	10.5246 ppm	0.5075 ppm	0.4870 ppm	0.4839 ppm
Concentration per Run 3	0.4844 ppm	0.5038 ppm	0.4877 ppm	10.6102 ppm	0.4996 ppm	0.4858 ppm	0.4782 ppm
Recovery Percentage 1	97.755 %	100.664 %	97.817 %	105.697 %	101.163 %	97.583 %	97.122 %
Concentration RSD	0.8 %	0.1 %	0.5 %	0.4 %	1.1 %	0.6 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4842 ppm	5.1556 ppm	0.5159 ppm	0.4974 ppm	0.5018 ppm	0.4867 ppm	0.4918 ppm
Concentration per Run 1	0.4841 ppm	5.2074 ppm	0.5224 ppm	0.4966 ppm	0.5076 ppm	0.4871 ppm	0.4977 ppm
Concentration per Run 2	0.4869 ppm	5.1396 ppm	0.5142 ppm	0.4977 ppm	0.5018 ppm	0.4855 ppm	0.4916 ppm
Concentration per Run 3	0.4815 ppm	5.1197 ppm	0.5111 ppm	0.4980 ppm	0.4961 ppm	0.4875 ppm	0.4861 ppm
Recovery Percentage 1	96.837 %	98.201 %	103.179 %	99.487 %	100.364 %	97.338 %	98.364 %
Concentration RSD	0.6 %	0.9 %	1.1 %	0.1 %	1.1 %	0.2 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5056 ppm	102.6531 %	102.4876 %	101.3824 %	97.8163 %	99.2999 %	99.5143 %
Concentration per Run 1	0.5123 ppm	101.8125 %	101.7525 %	101.0509 %	97.3024 %	98.4245 %	99.6370 %
Concentration per Run 2	0.5060 ppm	102.2438 %	104.0864 %	101.8939 %	97.4017 %	100.8458 %	99.9330 %
Concentration per Run 3	0.4985 ppm	103.9031 %	101.6239 %	101.2023 %	98.7447 %	98.6296 %	98.9728 %
Recovery Percentage 1	101.116 %						
Concentration RSD	1.4 %	1.1 %	1.4 %	0.4 %	0.8 %	1.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 1:26:57 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0051 ppm	-0.0001 ppm	0.0007 ppm	-0.0005 ppm	0.0001 ppm	0.0110 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	-0.0011 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm	0.0116 ppm
Concentration per Run 2	-0.0008 ppm	-0.0082 ppm	0.0004 ppm	0.0010 ppm	-0.0004 ppm	0.0001 ppm	0.0086 ppm
Concentration per Run 3	-0.0004 ppm	-0.0076 ppm	0.0003 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0126 ppm
Recovery Percentage 1	-7.129 %	-5.067 %	-4.664 %	2.443 %	-4.540 %	2.100 %	10.972 %
Concentration RSD	53.7 %	96.8 %	596.0 %	41.0 %	34.4 %	30.3 %	18.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0007 ppm	0.0074 ppm	-0.0708 ppm	-0.0034 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm	0.0064 ppm	-0.0533 ppm	-0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0089 ppm	-0.1003 ppm	-0.0052 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0069 ppm	-0.0588 ppm	-0.0030 ppm
Recovery Percentage 1	1.873 %	1.449 %	-0.394 %	6.832 %	14.785 %	-2.833 %	-34.351 %
Concentration RSD	62.8 %	90.6 %	307.7 %	37.0 %	18.1 %	36.3 %	46.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0213 ppm	-0.0003 ppm	-0.0015 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	0.0005 ppm	0.0222 ppm	0.0006 ppm	-0.0016 ppm	-0.0024 ppm
Concentration per Run 2	-0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0224 ppm	-0.0004 ppm	-0.0016 ppm	-0.0016 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0192 ppm	-0.0009 ppm	-0.0012 ppm	0.0030 ppm
Recovery Percentage 1	0.074 %	3.211 %	0.511 %	1.064 %	-1.040 %	-14.658 %	-0.634 %
Concentration RSD	1,002.4 %	23.0 %	105.7 %	8.4 %	293.7 %	17.1 %	922.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0009 ppm	-0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	-0.0015 ppm	-0.0007 ppm	-0.0003 ppm	0.0001 ppm	0.0013 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0006 ppm	0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0010 ppm	-0.0002 ppm	-0.0005 ppm
Recovery Percentage 1	-3.885 %	0.051 %	-0.038 %	-0.683 %	10.435 %	1.342 %	-3.255 %
Concentration RSD	264.0 %	338.1 %	2,627.7 %	186.5 %	23.7 %	188.1 %	43.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	98.7385 %	99.4617 %	98.7628 %	99.6162 %	99.9354 %	100.9120 %
Concentration per Run 1	0.0011 ppm	97.4066 %	99.6140 %	98.9206 %	99.3808 %	100.3896 %	101.4387 %
Concentration per Run 2	0.0011 ppm	99.0948 %	98.9953 %	98.7512 %	99.7912 %	99.5089 %	100.8456 %
Concentration per Run 3	0.0013 ppm	99.7141 %	99.7757 %	98.6164 %	99.6764 %	99.9076 %	100.4515 %
Recovery Percentage 1	23.274 %						
Concentration RSD	10.5 %	1.2 %	0.4 %	0.2 %	0.2 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-1 WG1936224
Analysis started at: 6/19/2024 1:32:24 PM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0120 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0270 ppm
Concentration per Run 1	-0.0008 ppm	0.0091 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0257 ppm
Concentration per Run 2	-0.0009 ppm	0.0114 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0260 ppm
Concentration per Run 3	-0.0009 ppm	0.0157 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0293 ppm
Recovery Percentage 1	-12.577 %	12.046 %	-2.397 %	0.173 %	-0.285 %	0.490 %	27.022 %
Concentration RSD	7.7 %	27.8 %	683.1 %	128.0 %	248.8 %	114.2 %	7.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0003 ppm	0.1268 ppm	-0.0885 ppm	-0.0038 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm	0.1253 ppm	-0.0708 ppm	-0.0053 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	0.1293 ppm	-0.0987 ppm	-0.0039 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm	0.1258 ppm	-0.0961 ppm	-0.0022 ppm
Recovery Percentage 1	0.238 %	-0.971 %	7.748 %	2.765 %	253.593 %	-3.542 %	-37.916 %
Concentration RSD	407.9 %	108.1 %	27.1 %	93.9 %	1.7 %	17.4 %	40.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0073 ppm	0.0007 ppm	-0.0006 ppm	0.0352 ppm	-0.0003 ppm	-0.0016 ppm	-0.0018 ppm
Concentration per Run 1	0.0060 ppm	0.0008 ppm	-0.0002 ppm	0.0349 ppm	-0.0005 ppm	-0.0017 ppm	-0.0010 ppm
Concentration per Run 2	0.0078 ppm	0.0006 ppm	-0.0006 ppm	0.0315 ppm	-0.0004 ppm	-0.0018 ppm	-0.0013 ppm
Concentration per Run 3	0.0081 ppm	0.0008 ppm	-0.0011 ppm	0.0391 ppm	0.0000 ppm	-0.0013 ppm	-0.0030 ppm
Recovery Percentage 1	7.298 %	7.307 %	-1.217 %	1.758 %	-1.186 %	-16.113 %	-3.501 %
Concentration RSD	15.5 %	18.7 %	72.7 %	10.8 %	80.1 %	15.6 %	61.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.0125 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0022 ppm	0.0124 ppm	-0.0008 ppm	-0.0001 ppm	0.0013 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0117 ppm	-0.0006 ppm	-0.0001 ppm	0.0012 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 3	-0.0011 ppm	0.0136 ppm	0.0001 ppm	-0.0001 ppm	0.0018 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	4.170 %	2.509 %	-0.796 %	-1.094 %	14.125 %	1.866 %	-1.748 %
Concentration RSD	396.1 %	7.6 %	121.6 %	30.7 %	21.8 %	98.9 %	70.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	119.3648 %	103.1927 %	107.9319 %	103.1326 %	98.9184 %	102.9471 %
Concentration per Run 1	0.0018 ppm	122.0155 %	103.0318 %	108.9506 %	102.8344 %	98.5310 %	103.1057 %
Concentration per Run 2	0.0017 ppm	119.5230 %	103.3395 %	107.8708 %	103.3423 %	98.9256 %	102.4706 %
Concentration per Run 3	0.0020 ppm	116.5558 %	103.2067 %	106.9743 %	103.2210 %	99.2987 %	103.2651 %
Recovery Percentage 1	36.420 %						
Concentration RSD	9.6 %	2.3 %	0.1 %	0.9 %	0.3 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-2D2 WG1936224
Analysis started at: 6/19/2024 1:36:35 PM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3280 ppm	17.4809 ppm	1.2173 ppm	0.9141 ppm	1.2104 ppm	0.6411 ppm	19.2242 ppm
Concentration per Run 1	0.3355 ppm	17.6451 ppm	1.2210 ppm	0.9336 ppm	1.2162 ppm	0.6435 ppm	19.3554 ppm
Concentration per Run 2	0.3271 ppm	17.4394 ppm	1.2183 ppm	0.9074 ppm	1.2070 ppm	0.6413 ppm	19.1743 ppm
Concentration per Run 3	0.3216 ppm	17.3582 ppm	1.2125 ppm	0.9012 ppm	1.2080 ppm	0.6386 ppm	19.1430 ppm
Concentration RSD	2.1 %	0.8 %	0.4 %	1.9 %	0.4 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8395 ppm	0.3219 ppm	0.7209 ppm	0.8135 ppm	21.4790 ppm	4.2821 ppm	0.4828 ppm
Concentration per Run 1	0.8629 ppm	0.3292 ppm	0.7384 ppm	0.8323 ppm	21.6973 ppm	4.3527 ppm	0.4907 ppm
Concentration per Run 2	0.8294 ppm	0.3199 ppm	0.7153 ppm	0.8091 ppm	21.3413 ppm	4.2585 ppm	0.4745 ppm
Concentration per Run 3	0.8263 ppm	0.3166 ppm	0.7090 ppm	0.7990 ppm	21.3983 ppm	4.2352 ppm	0.4830 ppm
Concentration RSD	2.4 %	2.0 %	2.1 %	2.1 %	0.9 %	1.5 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7482 ppm	2.0206 ppm	0.5403 ppm	7.2420 ppm	1.2571 ppm	0.3601 ppm	0.8162 ppm
Concentration per Run 1	5.8770 ppm	2.0324 ppm	0.5471 ppm	7.2887 ppm	1.2901 ppm	0.3596 ppm	0.8355 ppm
Concentration per Run 2	5.7202 ppm	2.0173 ppm	0.5354 ppm	7.2206 ppm	1.2461 ppm	0.3605 ppm	0.8065 ppm
Concentration per Run 3	5.6475 ppm	2.0121 ppm	0.5385 ppm	7.2166 ppm	1.2350 ppm	0.3601 ppm	0.8066 ppm
Concentration RSD	2.0 %	0.5 %	1.1 %	0.6 %	2.3 %	0.1 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5887 ppm	7.8511 ppm	0.3036 ppm	0.5235 ppm	1.2244 ppm	0.8188 ppm	0.4063 ppm
Concentration per Run 1	0.5897 ppm	8.1539 ppm	0.3116 ppm	0.5248 ppm	1.2537 ppm	0.8210 ppm	0.4164 ppm
Concentration per Run 2	0.5878 ppm	7.7462 ppm	0.3002 ppm	0.5237 ppm	1.2121 ppm	0.8210 ppm	0.4039 ppm
Concentration per Run 3	0.5885 ppm	7.6532 ppm	0.2991 ppm	0.5220 ppm	1.2075 ppm	0.8145 ppm	0.3987 ppm
Concentration RSD	0.2 %	3.4 %	2.3 %	0.3 %	2.1 %	0.5 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6593 ppm	102.0623 %	103.6553 %	99.3837 %	104.8806 %	106.9297 %	106.6838 %
Concentration per Run 1	0.6766 ppm	100.6986 %	102.2016 %	99.0297 %	104.2733 %	105.7761 %	106.4595 %
Concentration per Run 2	0.6530 ppm	102.3998 %	104.4149 %	99.6587 %	105.0109 %	107.5722 %	106.8735 %
Concentration per Run 3	0.6484 ppm	103.0883 %	104.3494 %	99.4628 %	105.3575 %	107.4408 %	106.7183 %
Concentration RSD	2.3 %	1.2 %	1.2 %	0.3 %	0.5 %	0.9 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-3D2 WG1936224
Analysis started at: 6/19/2024 1:40:31 PM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3404 ppm	18.3383 ppm	1.2431 ppm	0.9455 ppm	1.0738 ppm	0.6416 ppm	19.0501 ppm
Concentration per Run 1	0.3481 ppm	18.4350 ppm	1.2590 ppm	0.9689 ppm	1.0776 ppm	0.6440 ppm	19.1597 ppm
Concentration per Run 2	0.3393 ppm	18.2148 ppm	1.2415 ppm	0.9444 ppm	1.0758 ppm	0.6403 ppm	19.0367 ppm
Concentration per Run 3	0.3337 ppm	18.3650 ppm	1.2287 ppm	0.9231 ppm	1.0682 ppm	0.6405 ppm	18.9539 ppm
Concentration RSD	2.1 %	0.6 %	1.2 %	2.4 %	0.5 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8497 ppm	0.3317 ppm	0.7340 ppm	0.8324 ppm	22.5948 ppm	4.3735 ppm	0.4914 ppm
Concentration per Run 1	0.8704 ppm	0.3396 ppm	0.7484 ppm	0.8567 ppm	22.6967 ppm	4.4202 ppm	0.4964 ppm
Concentration per Run 2	0.8493 ppm	0.3299 ppm	0.7325 ppm	0.8255 ppm	22.6011 ppm	4.3734 ppm	0.4929 ppm
Concentration per Run 3	0.8294 ppm	0.3257 ppm	0.7212 ppm	0.8151 ppm	22.4866 ppm	4.3268 ppm	0.4849 ppm
Concentration RSD	2.4 %	2.2 %	1.9 %	2.6 %	0.5 %	1.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0088 ppm	2.0657 ppm	0.5593 ppm	7.4160 ppm	1.2904 ppm	0.3752 ppm	0.8733 ppm
Concentration per Run 1	6.1489 ppm	2.0756 ppm	0.5650 ppm	7.4320 ppm	1.3173 ppm	0.3813 ppm	0.8918 ppm
Concentration per Run 2	5.9812 ppm	2.0624 ppm	0.5590 ppm	7.4107 ppm	1.2846 ppm	0.3737 ppm	0.8797 ppm
Concentration per Run 3	5.8964 ppm	2.0590 ppm	0.5539 ppm	7.4054 ppm	1.2694 ppm	0.3705 ppm	0.8483 ppm
Concentration RSD	2.1 %	0.4 %	1.0 %	0.2 %	1.9 %	1.5 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6022 ppm	5.6967 ppm	0.3137 ppm	0.4932 ppm	1.2662 ppm	0.8095 ppm	0.4198 ppm
Concentration per Run 1	0.6045 ppm	5.8994 ppm	0.3217 ppm	0.4952 ppm	1.2939 ppm	0.8148 ppm	0.4285 ppm
Concentration per Run 2	0.6010 ppm	5.5853 ppm	0.3115 ppm	0.4941 ppm	1.2558 ppm	0.8152 ppm	0.4204 ppm
Concentration per Run 3	0.6010 ppm	5.6052 ppm	0.3079 ppm	0.4902 ppm	1.2490 ppm	0.7984 ppm	0.4105 ppm
Concentration RSD	0.3 %	3.1 %	2.3 %	0.5 %	1.9 %	1.2 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6826 ppm	101.7343 %	103.2308 %	98.9234 %	105.4328 %	106.8850 %	106.6949 %
Concentration per Run 1	0.6975 ppm	100.2522 %	102.7212 %	98.4679 %	105.4059 %	106.6655 %	106.6768 %
Concentration per Run 2	0.6800 ppm	101.8891 %	103.3589 %	98.9895 %	104.9838 %	106.7389 %	106.8359 %
Concentration per Run 3	0.6702 ppm	103.0616 %	103.6124 %	99.3127 %	105.9088 %	107.2506 %	106.5720 %
Concentration RSD	2.0 %	1.4 %	0.4 %	0.4 %	0.4 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433379-01D2 WG1936224
Analysis started at: 6/19/2024 1:44:29 PM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0046 ppm	65.6463 ppm	0.2437 ppm	0.0193 ppm	0.4931 ppm	0.0039 ppm	124.7435 ppm
Concentration per Run 1	-0.0051 ppm	65.4876 ppm	0.2446 ppm	0.0199 ppm	0.4912 ppm	0.0040 ppm	124.9017 ppm
Concentration per Run 2	-0.0048 ppm	65.7140 ppm	0.2437 ppm	0.0193 ppm	0.4955 ppm	0.0038 ppm	124.4661 ppm
Concentration per Run 3	-0.0039 ppm	65.7372 ppm	0.2429 ppm	0.0187 ppm	0.4925 ppm	0.0039 ppm	124.8627 ppm
Concentration RSD	14.0 %	0.2 %	0.3 %	3.2 %	0.4 %	2.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0632 ppm	0.1347 ppm	0.2318 ppm	315.5024 ppm	21.5296 ppm	0.1048 ppm
Concentration per Run 1	0.0006 ppm	0.0637 ppm	0.1355 ppm	0.2336 ppm	315.1675 ppm	21.5717 ppm	0.1078 ppm
Concentration per Run 2	0.0005 ppm	0.0630 ppm	0.1345 ppm	0.2316 ppm	315.5475 ppm	21.5201 ppm	0.1040 ppm
Concentration per Run 3	0.0006 ppm	0.0628 ppm	0.1340 ppm	0.2303 ppm	315.7922 ppm	21.4969 ppm	0.1025 ppm
Concentration RSD	16.5 %	0.8 %	0.5 %	0.7 %	0.1 %	0.2 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.1920 ppm	2.5554 ppm	0.0124 ppm	0.9372 ppm	0.1234 ppm	0.5570 ppm	0.0276 ppm
Concentration per Run 1	77.0277 ppm	2.5544 ppm	0.0128 ppm	0.9374 ppm	0.1245 ppm	0.5585 ppm	0.0252 ppm
Concentration per Run 2	75.9171 ppm	2.5468 ppm	0.0129 ppm	0.9415 ppm	0.1229 ppm	0.5580 ppm	0.0267 ppm
Concentration per Run 3	75.6313 ppm	2.5649 ppm	0.0115 ppm	0.9326 ppm	0.1227 ppm	0.5546 ppm	0.0310 ppm
Concentration RSD	1.0 %	0.4 %	6.3 %	0.5 %	0.8 %	0.4 %	10.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0488 ppm	4.2741 ppm	0.0326 ppm	0.2106 ppm	6.1127 ppm	0.0059 ppm	0.1768 ppm
Concentration per Run 1	0.0468 ppm	4.5101 ppm	0.0331 ppm	0.2108 ppm	6.1738 ppm	0.0058 ppm	0.1798 ppm
Concentration per Run 2	0.0493 ppm	4.2512 ppm	0.0323 ppm	0.2107 ppm	6.0845 ppm	0.0071 ppm	0.1756 ppm
Concentration per Run 3	0.0502 ppm	4.0610 ppm	0.0326 ppm	0.2103 ppm	6.0798 ppm	0.0049 ppm	0.1750 ppm
Concentration RSD	3.6 %	5.3 %	1.4 %	0.1 %	0.9 %	18.8 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4394 ppm	103.4774 %	106.8308 %	89.2183 %	119.4985 %	129.4904 %	124.9393 %
Concentration per Run 1	0.4451 ppm	102.2504 %	107.6559 %	89.5230 %	118.9900 %	130.9586 %	124.9878 %
Concentration per Run 2	0.4371 ppm	103.6666 %	106.9053 %	89.3856 %	119.0780 %	129.1398 %	125.1744 %
Concentration per Run 3	0.4358 ppm	104.5151 %	105.9311 %	88.7463 %	120.4274 %	128.3729 %	124.6556 %
Concentration RSD	1.1 %	1.1 %	0.8 %	0.5 %	0.7 %	1.0 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-4D2 WG1936224
Analysis started at: 6/19/2024 1:48:26 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	67.9251 ppm	0.2993 ppm	0.9503 ppm	2.2765 ppm	0.0541 ppm	146.4963 ppm
Concentration per Run 1	0.0473 ppm	68.0429 ppm	0.2989 ppm	0.9726 ppm	2.2816 ppm	0.0542 ppm	146.7129 ppm
Concentration per Run 2	0.0498 ppm	67.8615 ppm	0.3008 ppm	0.9394 ppm	2.2634 ppm	0.0543 ppm	146.6250 ppm
Concentration per Run 3	0.0495 ppm	67.8709 ppm	0.2983 ppm	0.9388 ppm	2.2845 ppm	0.0538 ppm	146.1511 ppm
Concentration RSD	2.8 %	0.2 %	0.4 %	2.0 %	0.5 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0502 ppm	0.5392 ppm	0.3166 ppm	0.4725 ppm	262.1250 ppm	30.4949 ppm	0.1059 ppm
Concentration per Run 1	0.0506 ppm	0.5488 ppm	0.3240 ppm	0.4728 ppm	261.9819 ppm	30.6404 ppm	0.1063 ppm
Concentration per Run 2	0.0502 ppm	0.5368 ppm	0.3137 ppm	0.4733 ppm	262.3082 ppm	30.1972 ppm	0.1061 ppm
Concentration per Run 3	0.0500 ppm	0.5320 ppm	0.3121 ppm	0.4714 ppm	262.0848 ppm	30.6472 ppm	0.1053 ppm
Concentration RSD	0.6 %	1.6 %	2.0 %	0.2 %	0.1 %	0.8 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.4518 ppm	2.8705 ppm	0.9561 ppm	11.4122 ppm	0.5906 ppm	1.0061 ppm	0.4944 ppm
Concentration per Run 1	86.7958 ppm	2.8772 ppm	0.9594 ppm	11.4379 ppm	0.6055 ppm	1.0086 ppm	0.5075 ppm
Concentration per Run 2	85.1253 ppm	2.8715 ppm	0.9525 ppm	11.4264 ppm	0.5851 ppm	1.0063 ppm	0.4852 ppm
Concentration per Run 3	84.4344 ppm	2.8629 ppm	0.9563 ppm	11.3723 ppm	0.5812 ppm	1.0035 ppm	0.4905 ppm
Concentration RSD	1.4 %	0.3 %	0.4 %	0.3 %	2.2 %	0.3 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1247 ppm	6.7991 ppm	0.9696 ppm	1.1268 ppm	6.5958 ppm	0.1361 ppm	0.6626 ppm
Concentration per Run 1	0.1245 ppm	6.9555 ppm	1.0141 ppm	1.1281 ppm	6.7315 ppm	0.1366 ppm	0.6862 ppm
Concentration per Run 2	0.1248 ppm	6.7155 ppm	0.9446 ppm	1.1283 ppm	6.5328 ppm	0.1380 ppm	0.6522 ppm
Concentration per Run 3	0.1249 ppm	6.7263 ppm	0.9502 ppm	1.1240 ppm	6.5232 ppm	0.1338 ppm	0.6495 ppm
Concentration RSD	0.1 %	2.0 %	4.0 %	0.2 %	1.8 %	1.6 %	3.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9202 ppm	103.0154 %	105.3939 %	88.1534 %	121.4922 %	128.4180 %	123.8217 %
Concentration per Run 1	0.9493 ppm	99.7630 %	105.8536 %	87.8240 %	116.4010 %	129.1737 %	123.4612 %
Concentration per Run 2	0.9058 ppm	104.0266 %	104.9176 %	88.0191 %	123.2337 %	127.7230 %	124.1661 %
Concentration per Run 3	0.9056 ppm	105.2566 %	105.4104 %	88.6169 %	124.8419 %	128.3571 %	123.8378 %
Concentration RSD	2.7 %	2.8 %	0.4 %	0.5 %	3.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-4D2 WG1936224
Analysis started at: 6/19/2024 1:52:23 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0492 ppm	66.6497 ppm	0.2996 ppm	0.9479 ppm	2.2513 ppm	0.0536 ppm	144.7838 ppm
Concentration per Run 1	0.0507 ppm	66.7703 ppm	0.3022 ppm	0.9588 ppm	2.2480 ppm	0.0538 ppm	145.2047 ppm
Concentration per Run 2	0.0500 ppm	66.6775 ppm	0.2981 ppm	0.9437 ppm	2.2483 ppm	0.0535 ppm	144.9719 ppm
Concentration per Run 3	0.0470 ppm	66.5013 ppm	0.2985 ppm	0.9412 ppm	2.2575 ppm	0.0534 ppm	144.1749 ppm
Concentration RSD	4.0 %	0.2 %	0.8 %	1.0 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0502 ppm	0.5378 ppm	0.3168 ppm	0.4727 ppm	259.5423 ppm	29.9639 ppm	0.1035 ppm
Concentration per Run 1	0.0513 ppm	0.5451 ppm	0.3197 ppm	0.4832 ppm	259.8144 ppm	30.0358 ppm	0.1038 ppm
Concentration per Run 2	0.0507 ppm	0.5364 ppm	0.3148 ppm	0.4765 ppm	260.4369 ppm	29.9042 ppm	0.1052 ppm
Concentration per Run 3	0.0484 ppm	0.5318 ppm	0.3158 ppm	0.4583 ppm	258.3755 ppm	29.9517 ppm	0.1016 ppm
Concentration RSD	3.0 %	1.3 %	0.8 %	2.7 %	0.4 %	0.2 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	85.8635 ppm	2.8217 ppm	0.9583 ppm	11.3084 ppm	0.5907 ppm	1.0011 ppm	0.4998 ppm
Concentration per Run 1	86.9068 ppm	2.8411 ppm	0.9621 ppm	11.3665 ppm	0.5952 ppm	1.0095 ppm	0.5099 ppm
Concentration per Run 2	85.4654 ppm	2.8090 ppm	0.9601 ppm	11.2988 ppm	0.5861 ppm	0.9974 ppm	0.4948 ppm
Concentration per Run 3	85.2183 ppm	2.8151 ppm	0.9528 ppm	11.2598 ppm	0.5910 ppm	0.9965 ppm	0.4948 ppm
Concentration RSD	1.1 %	0.6 %	0.5 %	0.5 %	0.8 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1244 ppm	6.7383 ppm	0.9711 ppm	1.1070 ppm	6.5983 ppm	0.1380 ppm	0.6644 ppm
Concentration per Run 1	0.1231 ppm	6.9172 ppm	0.9734 ppm	1.1113 ppm	6.6637 ppm	0.1374 ppm	0.6689 ppm
Concentration per Run 2	0.1231 ppm	6.7665 ppm	0.9520 ppm	1.1039 ppm	6.5596 ppm	0.1363 ppm	0.6543 ppm
Concentration per Run 3	0.1269 ppm	6.5313 ppm	0.9878 ppm	1.1057 ppm	6.5718 ppm	0.1405 ppm	0.6702 ppm
Concentration RSD	1.8 %	2.9 %	1.9 %	0.4 %	0.9 %	1.6 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9209 ppm	103.3019 %	104.9845 %	88.1692 %	121.8791 %	127.4383 %	123.8606 %
Concentration per Run 1	0.9292 ppm	103.2066 %	105.3018 %	87.5832 %	123.2398 %	127.9549 %	123.3685 %
Concentration per Run 2	0.9093 ppm	104.8423 %	104.2694 %	88.5407 %	124.4814 %	126.6237 %	124.1361 %
Concentration per Run 3	0.9243 ppm	101.8567 %	105.3821 %	88.3837 %	117.9163 %	127.7363 %	124.0773 %
Concentration RSD	1.1 %	1.4 %	0.6 %	0.6 %	2.9 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-5D2 WG1936224
Analysis started at: 6/19/2024 1:56:21 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0504 ppm	64.9370 ppm	0.3412 ppm	0.9567 ppm	2.3040 ppm	0.0542 ppm	131.1428 ppm
Concentration per Run 1	0.0507 ppm	65.3993 ppm	0.3418 ppm	0.9706 ppm	2.3131 ppm	0.0543 ppm	131.7765 ppm
Concentration per Run 2	0.0504 ppm	64.9069 ppm	0.3443 ppm	0.9530 ppm	2.3157 ppm	0.0541 ppm	130.9323 ppm
Concentration per Run 3	0.0500 ppm	64.5048 ppm	0.3376 ppm	0.9466 ppm	2.2831 ppm	0.0541 ppm	130.7195 ppm
Concentration RSD	0.6 %	0.7 %	1.0 %	1.3 %	0.8 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0518 ppm	0.5554 ppm	0.3312 ppm	0.5212 ppm	321.8537 ppm	28.0518 ppm	0.1044 ppm
Concentration per Run 1	0.0524 ppm	0.5637 ppm	0.3365 ppm	0.5286 ppm	322.4807 ppm	28.3218 ppm	0.1048 ppm
Concentration per Run 2	0.0516 ppm	0.5540 ppm	0.3302 ppm	0.5200 ppm	322.1726 ppm	28.0805 ppm	0.1052 ppm
Concentration per Run 3	0.0513 ppm	0.5486 ppm	0.3270 ppm	0.5151 ppm	320.9078 ppm	27.7532 ppm	0.1032 ppm
Concentration RSD	1.1 %	1.4 %	1.5 %	1.3 %	0.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.9427 ppm	3.2942 ppm	0.9799 ppm	11.4108 ppm	0.6173 ppm	1.0395 ppm	0.5077 ppm
Concentration per Run 1	78.1409 ppm	3.3120 ppm	0.9835 ppm	11.4455 ppm	0.6255 ppm	1.0458 ppm	0.5176 ppm
Concentration per Run 2	76.6153 ppm	3.2904 ppm	0.9791 ppm	11.4026 ppm	0.6166 ppm	1.0407 ppm	0.5038 ppm
Concentration per Run 3	76.0719 ppm	3.2800 ppm	0.9772 ppm	11.3843 ppm	0.6098 ppm	1.0321 ppm	0.5016 ppm
Concentration RSD	1.4 %	0.5 %	0.3 %	0.3 %	1.3 %	0.7 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1340 ppm	6.8451 ppm	0.9746 ppm	1.1450 ppm	6.5928 ppm	0.1397 ppm	0.6721 ppm
Concentration per Run 1	0.1353 ppm	6.9861 ppm	0.9874 ppm	1.1453 ppm	6.6885 ppm	0.1427 ppm	0.6835 ppm
Concentration per Run 2	0.1351 ppm	6.8593 ppm	0.9806 ppm	1.1468 ppm	6.5690 ppm	0.1387 ppm	0.6691 ppm
Concentration per Run 3	0.1318 ppm	6.6901 ppm	0.9557 ppm	1.1427 ppm	6.5209 ppm	0.1377 ppm	0.6638 ppm
Concentration RSD	1.5 %	2.2 %	1.7 %	0.2 %	1.3 %	1.9 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9435 ppm	104.3803 %	104.7636 %	87.8531 %	121.0454 %	124.6257 %	121.9273 %
Concentration per Run 1	0.9624 ppm	103.2470 %	104.5304 %	88.1103 %	120.0893 %	124.5319 %	122.3568 %
Concentration per Run 2	0.9403 ppm	104.9834 %	105.4438 %	87.7923 %	121.5318 %	125.3172 %	121.9244 %
Concentration per Run 3	0.9277 ppm	104.9105 %	104.3168 %	87.6567 %	121.5150 %	124.0280 %	121.5008 %
Concentration RSD	1.9 %	0.9 %	0.6 %	0.3 %	0.7 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-5D2 WG1936224
Analysis started at: 6/19/2024 2:00:19 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	65.6418 ppm	0.3431 ppm	0.9513 ppm	2.3280 ppm	0.0548 ppm	132.5209 ppm
Concentration per Run 1	0.0504 ppm	65.7037 ppm	0.3444 ppm	0.9596 ppm	2.3347 ppm	0.0547 ppm	132.5732 ppm
Concentration per Run 2	0.0505 ppm	65.6938 ppm	0.3438 ppm	0.9488 ppm	2.3283 ppm	0.0549 ppm	132.6119 ppm
Concentration per Run 3	0.0501 ppm	65.5279 ppm	0.3410 ppm	0.9454 ppm	2.3211 ppm	0.0549 ppm	132.3774 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.8 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0512 ppm	0.5536 ppm	0.3299 ppm	0.5213 ppm	325.0562 ppm	28.3114 ppm	0.1051 ppm
Concentration per Run 1	0.0518 ppm	0.5591 ppm	0.3330 ppm	0.5255 ppm	325.8987 ppm	28.4164 ppm	0.1083 ppm
Concentration per Run 2	0.0507 ppm	0.5495 ppm	0.3291 ppm	0.5197 ppm	325.1490 ppm	28.3132 ppm	0.1053 ppm
Concentration per Run 3	0.0512 ppm	0.5523 ppm	0.3275 ppm	0.5188 ppm	324.1208 ppm	28.2044 ppm	0.1017 ppm
Concentration RSD	1.0 %	0.9 %	0.9 %	0.7 %	0.3 %	0.4 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	76.5981 ppm	3.3295 ppm	0.9767 ppm	11.5285 ppm	0.6141 ppm	1.0422 ppm	0.5037 ppm
Concentration per Run 1	77.5637 ppm	3.3343 ppm	0.9781 ppm	11.5370 ppm	0.6220 ppm	1.0474 ppm	0.5066 ppm
Concentration per Run 2	76.4126 ppm	3.3310 ppm	0.9736 ppm	11.5380 ppm	0.6154 ppm	1.0450 ppm	0.5043 ppm
Concentration per Run 3	75.8179 ppm	3.3232 ppm	0.9783 ppm	11.5105 ppm	0.6047 ppm	1.0343 ppm	0.5003 ppm
Concentration RSD	1.2 %	0.2 %	0.3 %	0.1 %	1.4 %	0.7 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1341 ppm	7.0128 ppm	0.9616 ppm	1.1554 ppm	6.5687 ppm	0.1400 ppm	0.6682 ppm
Concentration per Run 1	0.1357 ppm	7.1552 ppm	0.9784 ppm	1.1508 ppm	6.6441 ppm	0.1396 ppm	0.6773 ppm
Concentration per Run 2	0.1339 ppm	6.9751 ppm	0.9587 ppm	1.1557 ppm	6.5488 ppm	0.1423 ppm	0.6676 ppm
Concentration per Run 3	0.1327 ppm	6.9080 ppm	0.9478 ppm	1.1596 ppm	6.5131 ppm	0.1382 ppm	0.6596 ppm
Concentration RSD	1.1 %	1.8 %	1.6 %	0.4 %	1.0 %	1.5 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9362 ppm	104.3125 %	105.3070 %	87.5748 %	120.8990 %	125.5768 %	121.7906 %
Concentration per Run 1	0.9492 ppm	102.9277 %	105.6171 %	87.7135 %	119.4473 %	126.2009 %	122.0114 %
Concentration per Run 2	0.9352 ppm	104.6573 %	105.7515 %	86.9910 %	121.1851 %	125.7739 %	121.3131 %
Concentration per Run 3	0.9241 ppm	105.3527 %	104.5524 %	88.0199 %	122.0647 %	124.7557 %	122.0472 %
Concentration RSD	1.3 %	1.2 %	0.6 %	0.6 %	1.1 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-7D2 WG1936224
Analysis started at: 6/19/2024 2:04:18 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0412 ppm	64.1521 ppm	0.3592 ppm	0.9021 ppm	2.2305 ppm	0.0493 ppm	127.8889 ppm
Concentration per Run 1	0.0414 ppm	64.0710 ppm	0.3578 ppm	0.9094 ppm	2.2204 ppm	0.0489 ppm	127.4148 ppm
Concentration per Run 2	0.0411 ppm	64.0982 ppm	0.3586 ppm	0.8989 ppm	2.2370 ppm	0.0494 ppm	128.1310 ppm
Concentration per Run 3	0.0410 ppm	64.2872 ppm	0.3613 ppm	0.8980 ppm	2.2343 ppm	0.0495 ppm	128.1210 ppm
Concentration RSD	0.6 %	0.2 %	0.5 %	0.7 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0453 ppm	0.4792 ppm	0.2983 ppm	0.4449 ppm	305.3779 ppm	30.3522 ppm	0.0977 ppm
Concentration per Run 1	0.0460 ppm	0.4818 ppm	0.2993 ppm	0.4465 ppm	304.0140 ppm	30.2764 ppm	0.0981 ppm
Concentration per Run 2	0.0448 ppm	0.4777 ppm	0.2978 ppm	0.4451 ppm	305.9932 ppm	30.2894 ppm	0.0974 ppm
Concentration per Run 3	0.0453 ppm	0.4781 ppm	0.2977 ppm	0.4430 ppm	306.1266 ppm	30.4908 ppm	0.0974 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	0.4 %	0.4 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	79.7178 ppm	2.8987 ppm	0.8770 ppm	10.9248 ppm	0.5450 ppm	1.0598 ppm	0.4784 ppm
Concentration per Run 1	80.0374 ppm	2.8938 ppm	0.8688 ppm	10.8992 ppm	0.5447 ppm	1.0529 ppm	0.4810 ppm
Concentration per Run 2	79.7047 ppm	2.8953 ppm	0.8758 ppm	10.9459 ppm	0.5471 ppm	1.0706 ppm	0.4734 ppm
Concentration per Run 3	79.4114 ppm	2.9071 ppm	0.8864 ppm	10.9294 ppm	0.5433 ppm	1.0560 ppm	0.4807 ppm
Concentration RSD	0.4 %	0.3 %	1.0 %	0.2 %	0.3 %	0.9 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1347 ppm	4.6200 ppm	0.9460 ppm	1.0896 ppm	6.6182 ppm	0.1226 ppm	0.6198 ppm
Concentration per Run 1	0.1344 ppm	4.7692 ppm	0.9516 ppm	1.0841 ppm	6.6386 ppm	0.1168 ppm	0.6222 ppm
Concentration per Run 2	0.1349 ppm	4.6035 ppm	0.9451 ppm	1.0894 ppm	6.6116 ppm	0.1295 ppm	0.6199 ppm
Concentration per Run 3	0.1348 ppm	4.4874 ppm	0.9413 ppm	1.0952 ppm	6.6043 ppm	0.1216 ppm	0.6175 ppm
Concentration RSD	0.2 %	3.1 %	0.6 %	0.5 %	0.3 %	5.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8452 ppm	103.4779 %	105.8933 %	88.4448 %	117.8705 %	126.9875 %	123.1748 %
Concentration per Run 1	0.8491 ppm	102.9437 %	106.5459 %	88.1424 %	117.4577 %	127.6610 %	123.0717 %
Concentration per Run 2	0.8449 ppm	103.6831 %	105.9378 %	89.8035 %	117.9797 %	127.2093 %	123.7622 %
Concentration per Run 3	0.8417 ppm	103.8068 %	105.1961 %	87.3883 %	118.1739 %	126.0923 %	122.6905 %
Concentration RSD	0.4 %	0.5 %	0.6 %	1.4 %	0.3 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-6D10 WG1936224
Analysis started at: 6/19/2024 2:08:24 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	13.6314 ppm	0.0457 ppm	0.0042 ppm	0.1017 ppm	0.0009 ppm	26.2915 ppm
Concentration per Run 1	-0.0007 ppm	13.6603 ppm	0.0449 ppm	0.0048 ppm	0.1020 ppm	0.0009 ppm	26.3883 ppm
Concentration per Run 2	-0.0006 ppm	13.6165 ppm	0.0444 ppm	0.0040 ppm	0.1016 ppm	0.0009 ppm	26.3150 ppm
Concentration per Run 3	-0.0007 ppm	13.6174 ppm	0.0479 ppm	0.0036 ppm	0.1016 ppm	0.0008 ppm	26.1711 ppm
Concentration RSD	9.3 %	0.2 %	4.1 %	14.7 %	0.2 %	5.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0141 ppm	0.0289 ppm	0.0496 ppm	70.0195 ppm	4.3930 ppm	0.0204 ppm
Concentration per Run 1	0.0003 ppm	0.0143 ppm	0.0292 ppm	0.0512 ppm	70.2927 ppm	4.4224 ppm	0.0224 ppm
Concentration per Run 2	0.0003 ppm	0.0137 ppm	0.0284 ppm	0.0489 ppm	69.8424 ppm	4.3936 ppm	0.0203 ppm
Concentration per Run 3	0.0002 ppm	0.0143 ppm	0.0291 ppm	0.0486 ppm	69.9234 ppm	4.3631 ppm	0.0184 ppm
Concentration RSD	32.1 %	2.5 %	1.4 %	2.9 %	0.3 %	0.7 %	9.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1461 ppm	0.5400 ppm	0.0032 ppm	0.2164 ppm	0.0256 ppm	0.1088 ppm	0.0029 ppm
Concentration per Run 1	16.4459 ppm	0.5411 ppm	0.0038 ppm	0.2183 ppm	0.0255 ppm	0.1085 ppm	0.0004 ppm
Concentration per Run 2	16.1367 ppm	0.5403 ppm	0.0030 ppm	0.2116 ppm	0.0263 ppm	0.1098 ppm	0.0049 ppm
Concentration per Run 3	15.8556 ppm	0.5385 ppm	0.0030 ppm	0.2193 ppm	0.0249 ppm	0.1081 ppm	0.0033 ppm
Concentration RSD	1.8 %	0.2 %	15.2 %	1.9 %	2.6 %	0.8 %	78.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0126 ppm	1.0041 ppm	0.0071 ppm	0.0430 ppm	1.2662 ppm	0.0019 ppm	0.0348 ppm
Concentration per Run 1	0.0133 ppm	1.0032 ppm	0.0070 ppm	0.0433 ppm	1.2786 ppm	0.0013 ppm	0.0353 ppm
Concentration per Run 2	0.0127 ppm	1.0347 ppm	0.0074 ppm	0.0429 ppm	1.2724 ppm	0.0024 ppm	0.0348 ppm
Concentration per Run 3	0.0117 ppm	0.9744 ppm	0.0070 ppm	0.0427 ppm	1.2478 ppm	0.0020 ppm	0.0342 ppm
Concentration RSD	6.5 %	3.0 %	3.7 %	0.7 %	1.3 %	28.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0943 ppm	103.2482 %	103.7694 %	100.5631 %	104.1103 %	105.6976 %	106.7018 %
Concentration per Run 1	0.0958 ppm	101.0891 %	102.9616 %	100.7711 %	102.4144 %	105.3431 %	106.7678 %
Concentration per Run 2	0.0939 ppm	103.7270 %	104.0347 %	100.3365 %	104.5618 %	105.9575 %	106.4929 %
Concentration per Run 3	0.0932 ppm	104.9285 %	104.3118 %	100.5818 %	105.3549 %	105.7922 %	106.8447 %
Concentration RSD	1.4 %	1.9 %	0.7 %	0.2 %	1.5 %	0.3 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 2:12:23 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4961 ppm	0.4786 ppm	0.4815 ppm	0.4866 ppm	0.4870 ppm	0.5049 ppm	0.5008 ppm
Concentration per Run 1	0.5047 ppm	0.4829 ppm	0.4825 ppm	0.4923 ppm	0.4866 ppm	0.5052 ppm	0.5003 ppm
Concentration per Run 2	0.4951 ppm	0.4769 ppm	0.4821 ppm	0.4885 ppm	0.4882 ppm	0.5051 ppm	0.5020 ppm
Concentration per Run 3	0.4884 ppm	0.4761 ppm	0.4800 ppm	0.4790 ppm	0.4862 ppm	0.5043 ppm	0.5002 ppm
Recovery Percentage 1	99.213 %	95.722 %	96.304 %	97.317 %	97.395 %	100.978 %	100.165 %
Concentration RSD	1.6 %	0.8 %	0.3 %	1.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4980 ppm	0.4996 ppm	0.4900 ppm	0.4834 ppm	0.5272 ppm	5.1686 ppm	0.4729 ppm
Concentration per Run 1	0.5042 ppm	0.5066 ppm	0.4978 ppm	0.4910 ppm	0.5269 ppm	5.1759 ppm	0.4824 ppm
Concentration per Run 2	0.4976 ppm	0.4996 ppm	0.4891 ppm	0.4849 ppm	0.5288 ppm	5.1988 ppm	0.4728 ppm
Concentration per Run 3	0.4922 ppm	0.4926 ppm	0.4831 ppm	0.4744 ppm	0.5260 ppm	5.1311 ppm	0.4636 ppm
Recovery Percentage 1	99.602 %	99.918 %	97.998 %	96.684 %	105.443 %	103.372 %	94.586 %
Concentration RSD	1.2 %	1.4 %	1.5 %	1.7 %	0.3 %	0.7 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4873 ppm	0.5027 ppm	0.4893 ppm	10.5307 ppm	0.5037 ppm	0.4897 ppm	0.4854 ppm
Concentration per Run 1	0.4957 ppm	0.5040 ppm	0.4913 ppm	10.5500 ppm	0.5102 ppm	0.4913 ppm	0.4906 ppm
Concentration per Run 2	0.4877 ppm	0.5034 ppm	0.4906 ppm	10.5188 ppm	0.5050 ppm	0.4881 ppm	0.4889 ppm
Concentration per Run 3	0.4785 ppm	0.5009 ppm	0.4860 ppm	10.5233 ppm	0.4958 ppm	0.4896 ppm	0.4766 ppm
Recovery Percentage 1	97.463 %	100.546 %	97.856 %	105.307 %	100.734 %	97.931 %	97.072 %
Concentration RSD	1.8 %	0.3 %	0.6 %	0.2 %	1.5 %	0.3 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4822 ppm	5.1525 ppm	0.5131 ppm	0.4938 ppm	0.5042 ppm	0.4895 ppm	0.4911 ppm
Concentration per Run 1	0.4887 ppm	5.2209 ppm	0.5216 ppm	0.4937 ppm	0.5121 ppm	0.4873 ppm	0.4993 ppm
Concentration per Run 2	0.4790 ppm	5.1523 ppm	0.5103 ppm	0.4944 ppm	0.5033 ppm	0.4932 ppm	0.4899 ppm
Concentration per Run 3	0.4789 ppm	5.0842 ppm	0.5075 ppm	0.4934 ppm	0.4971 ppm	0.4878 ppm	0.4842 ppm
Recovery Percentage 1	96.442 %	98.142 %	102.627 %	98.766 %	100.831 %	97.890 %	98.226 %
Concentration RSD	1.2 %	1.3 %	1.5 %	0.1 %	1.5 %	0.7 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	103.1903 %	102.7134 %	102.0260 %	98.2889 %	99.3474 %	100.2523 %
Concentration per Run 1	0.5105 ppm	102.1539 %	102.2046 %	101.7133 %	97.4743 %	98.9854 %	100.1882 %
Concentration per Run 2	0.5023 ppm	103.4889 %	102.8930 %	102.2194 %	98.8530 %	99.7460 %	100.4422 %
Concentration per Run 3	0.4967 ppm	103.9280 %	103.0425 %	102.1454 %	98.5394 %	99.3106 %	100.1266 %
Recovery Percentage 1	100.631 %						
Concentration RSD	1.4 %	0.9 %	0.4 %	0.3 %	0.7 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 2:16:21 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0004 ppm	-0.0019 ppm	-0.0003 ppm	0.0003 ppm	-0.0004 ppm	-0.0001 ppm	0.0117 ppm
Concentration per Run 2	-0.0003 ppm	-0.0019 ppm	0.0008 ppm	0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0117 ppm
Concentration per Run 3	-0.0006 ppm	0.0063 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0166 ppm
Recovery Percentage 1	-6.005 %	0.843 %	3.145 %	1.476 %	-3.419 %	1.307 %	13.337 %
Concentration RSD	30.9 %	563.8 %	615.9 %	156.8 %	11.9 %	188.3 %	21.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0079 ppm	-0.0655 ppm	-0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0087 ppm	-0.0360 ppm	-0.0032 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0008 ppm	0.0066 ppm	-0.0833 ppm	-0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0084 ppm	-0.0771 ppm	-0.0036 ppm
Recovery Percentage 1	1.066 %	-0.783 %	-1.490 %	7.533 %	15.840 %	-2.619 %	-31.341 %
Concentration RSD	143.6 %	343.5 %	79.5 %	41.7 %	14.6 %	39.3 %	15.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0191 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0189 ppm	-0.0008 ppm	-0.0010 ppm	0.0042 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0192 ppm	-0.0008 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	-0.0006 ppm	0.0003 ppm	0.0009 ppm	0.0191 ppm	0.0009 ppm	-0.0020 ppm	-0.0041 ppm
Recovery Percentage 1	0.087 %	2.273 %	0.732 %	0.953 %	-0.841 %	-8.621 %	0.483 %
Concentration RSD	768.3 %	45.1 %	143.1 %	0.8 %	472.0 %	138.2 %	1,713.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0088 ppm	-0.0006 ppm	-0.0002 ppm	0.0010 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0013 ppm	0.0112 ppm	0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0102 ppm	-0.0004 ppm	-0.0002 ppm	0.0009 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0052 ppm	-0.0014 ppm	-0.0002 ppm	0.0008 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	-10.885 %	1.770 %	-1.131 %	-1.957 %	9.770 %	5.714 %	-1.364 %
Concentration RSD	25.4 %	36.5 %	141.8 %	7.0 %	30.2 %	66.4 %	243.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	97.7262 %	99.4166 %	99.1801 %	99.1532 %	100.1167 %	101.4256 %
Concentration per Run 1	0.0013 ppm	96.2975 %	99.1443 %	98.8273 %	98.7906 %	100.4398 %	101.4371 %
Concentration per Run 2	0.0011 ppm	97.6620 %	99.6268 %	98.7170 %	98.9180 %	100.2604 %	100.7848 %
Concentration per Run 3	0.0011 ppm	99.2192 %	99.4787 %	99.9960 %	99.7509 %	99.6498 %	102.0550 %
Recovery Percentage 1	22.750 %						
Concentration RSD	10.1 %	1.5 %	0.2 %	0.7 %	0.5 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432838-01 WG1935332
Analysis started at: 6/19/2024 2:23:07 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	68.4061 ppm	0.0008 ppm	0.0175 ppm	0.0286 ppm	0.0000 ppm	32.5868 ppm
Concentration per Run 1	-0.0005 ppm	67.2612 ppm	0.0011 ppm	0.0176 ppm	0.0283 ppm	0.0000 ppm	32.6493 ppm
Concentration per Run 2	-0.0004 ppm	67.8221 ppm	0.0005 ppm	0.0177 ppm	0.0280 ppm	0.0001 ppm	32.8336 ppm
Concentration per Run 3	-0.0006 ppm	70.1350 ppm	0.0008 ppm	0.0172 ppm	0.0295 ppm	0.0000 ppm	32.2773 ppm
Concentration RSD	14.9 %	2.2 %	34.9 %	1.5 %	2.7 %	125.8 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0029 ppm	0.2355 ppm	1.6477 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0034 ppm	0.2365 ppm	1.6257 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0028 ppm	0.2331 ppm	1.5843 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0007 ppm	0.0027 ppm	0.2370 ppm	1.7329 ppm	0.0050 ppm
Concentration RSD	32.0 %	49.3 %	30.9 %	12.9 %	0.9 %	4.7 %	111.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.0123 ppm	0.0191 ppm	0.0005 ppm	12.5162 ppm	0.0008 ppm	0.0034 ppm	-0.0001 ppm
Concentration per Run 1	7.9805 ppm	0.0191 ppm	0.0004 ppm	12.7068 ppm	0.0004 ppm	0.0039 ppm	-0.0006 ppm
Concentration per Run 2	8.0059 ppm	0.0192 ppm	0.0006 ppm	12.7511 ppm	0.0009 ppm	0.0034 ppm	-0.0016 ppm
Concentration per Run 3	8.0505 ppm	0.0191 ppm	0.0006 ppm	12.0908 ppm	0.0012 ppm	0.0028 ppm	0.0019 ppm
Concentration RSD	0.4 %	0.4 %	20.7 %	2.9 %	46.1 %	16.8 %	2,102.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.3130 ppm	-0.0016 ppm	0.1597 ppm	0.0043 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	0.0016 ppm	0.3101 ppm	-0.0022 ppm	0.1618 ppm	0.0042 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 2	-0.0034 ppm	0.3118 ppm	-0.0012 ppm	0.1606 ppm	0.0043 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.3172 ppm	-0.0015 ppm	0.1566 ppm	0.0042 ppm	0.0023 ppm	0.0007 ppm
Concentration RSD	294.9 %	1.2 %	29.2 %	1.7 %	0.4 %	85.0 %	28.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0074 ppm	115.7698 %	103.4403 %	110.0628 %	98.8577 %	97.6547 %	103.5080 %
Concentration per Run 1	0.0074 ppm	115.8530 %	101.2378 %	110.8479 %	98.0456 %	96.4343 %	103.8495 %
Concentration per Run 2	0.0077 ppm	115.6039 %	100.6582 %	109.7699 %	98.3256 %	95.7087 %	103.2292 %
Concentration per Run 3	0.0072 ppm	115.8524 %	108.4249 %	109.5705 %	100.2020 %	100.8210 %	103.4454 %
Concentration RSD	3.1 %	0.1 %	4.2 %	0.6 %	1.2 %	2.8 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432844-01 WG1935332
Analysis started at: 6/19/2024 2:27:24 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	1.5567 ppm	0.0017 ppm	0.0300 ppm	0.0152 ppm	0.0001 ppm	46.7301 ppm
Concentration per Run 1	-0.0006 ppm	1.5604 ppm	0.0031 ppm	0.0310 ppm	0.0152 ppm	0.0000 ppm	46.8188 ppm
Concentration per Run 2	-0.0007 ppm	1.5627 ppm	0.0008 ppm	0.0309 ppm	0.0151 ppm	0.0001 ppm	46.7534 ppm
Concentration per Run 3	-0.0006 ppm	1.5469 ppm	0.0011 ppm	0.0281 ppm	0.0152 ppm	0.0001 ppm	46.6180 ppm
Concentration RSD	14.6 %	0.5 %	71.8 %	5.6 %	0.3 %	31.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0008 ppm	0.0002 ppm	0.0031 ppm	0.1705 ppm	6.0424 ppm	-0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0009 ppm	0.0003 ppm	0.0030 ppm	0.1702 ppm	6.1227 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0010 ppm	0.0002 ppm	0.0033 ppm	0.1709 ppm	6.0486 ppm	-0.0009 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0029 ppm	0.1704 ppm	5.9559 ppm	-0.0024 ppm
Concentration RSD	1.7 %	40.1 %	44.2 %	7.0 %	0.2 %	1.4 %	420.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.9846 ppm	0.0114 ppm	0.0508 ppm	287.6312 ppm	0.0012 ppm	-0.0009 ppm	-0.0038 ppm
Concentration per Run 1	13.3593 ppm	0.0114 ppm	0.0518 ppm	288.1756 ppm	0.0022 ppm	-0.0007 ppm	-0.0054 ppm
Concentration per Run 2	12.9110 ppm	0.0115 ppm	0.0503 ppm	287.3365 ppm	0.0007 ppm	-0.0006 ppm	-0.0038 ppm
Concentration per Run 3	12.6835 ppm	0.0113 ppm	0.0502 ppm	287.3816 ppm	0.0006 ppm	-0.0015 ppm	-0.0022 ppm
Concentration RSD	2.6 %	1.0 %	1.8 %	0.2 %	76.0 %	54.8 %	41.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.6936 ppm	-0.0020 ppm	0.2335 ppm	0.0027 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 1	0.0006 ppm	0.7100 ppm	-0.0022 ppm	0.2339 ppm	0.0027 ppm	-0.0006 ppm	0.0010 ppm
Concentration per Run 2	0.0029 ppm	0.6945 ppm	-0.0014 ppm	0.2338 ppm	0.0027 ppm	0.0035 ppm	0.0004 ppm
Concentration per Run 3	0.0017 ppm	0.6763 ppm	-0.0024 ppm	0.2329 ppm	0.0029 ppm	0.0019 ppm	0.0005 ppm
Concentration RSD	66.4 %	2.4 %	27.3 %	0.2 %	3.6 %	126.9 %	49.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	94.3439 %	100.3767 %	93.9863 %	95.9618 %	100.1681 %	98.4134 %
Concentration per Run 1	0.0053 ppm	91.7669 %	100.3969 %	93.1801 %	94.5546 %	100.7883 %	98.2161 %
Concentration per Run 2	0.0051 ppm	94.7391 %	101.1406 %	93.7189 %	96.0686 %	100.5984 %	98.1434 %
Concentration per Run 3	0.0052 ppm	96.5256 %	99.5925 %	95.0599 %	97.2622 %	99.1178 %	98.8807 %
Concentration RSD	2.1 %	2.5 %	0.8 %	1.0 %	1.4 %	0.9 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432903-03 WG1935332
Analysis started at: 6/19/2024 2:31:22 PM
Rack 2
Vial 9
Comment

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0685 ppm	-0.0005 ppm	0.0524 ppm	0.0192 ppm	0.0000 ppm	25.0617 ppm
Concentration per Run 1	-0.0005 ppm	0.0805 ppm	-0.0006 ppm	0.0546 ppm	0.0192 ppm	0.0000 ppm	25.1583 ppm
Concentration per Run 2	-0.0006 ppm	0.0542 ppm	-0.0022 ppm	0.0515 ppm	0.0193 ppm	0.0000 ppm	25.0796 ppm
Concentration per Run 3	-0.0002 ppm	0.0708 ppm	0.0014 ppm	0.0512 ppm	0.0191 ppm	0.0000 ppm	24.9472 ppm
Concentration RSD	49.5 %	19.5 %	366.4 %	3.6 %	0.6 %	36.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0081 ppm	0.0073 ppm	0.2523 ppm	14.4233 ppm	0.0333 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	0.0085 ppm	0.0071 ppm	0.2519 ppm	14.5420 ppm	0.0356 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0082 ppm	0.0079 ppm	0.2547 ppm	14.4188 ppm	0.0322 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0077 ppm	0.0068 ppm	0.2502 ppm	14.3092 ppm	0.0322 ppm
Concentration RSD	118.1 %	34.1 %	5.0 %	7.8 %	0.9 %	0.8 %	5.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.4924 ppm	0.0053 ppm	0.0020 ppm	2,409.5964 ppm	0.0399 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	7.6741 ppm	0.0054 ppm	0.0017 ppm	2,434.9917 ppm	0.0394 ppm	0.0005 ppm	-0.0034 ppm
Concentration per Run 2	7.4557 ppm	0.0055 ppm	0.0021 ppm	2,435.5475 ppm	0.0407 ppm	-0.0006 ppm	0.0041 ppm
Concentration per Run 3	7.3475 ppm	0.0050 ppm	0.0022 ppm	2,358.2500 ppm	0.0397 ppm	-0.0012 ppm	-0.0015 ppm
Concentration RSD	2.2 %	4.8 %	10.7 %	1.8 %	1.6 %	216.0 %	1,549.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.3355 ppm	-0.0025 ppm	0.1458 ppm	0.0013 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 1	0.0023 ppm	0.3392 ppm	-0.0028 ppm	0.1462 ppm	0.0012 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.3346 ppm	-0.0025 ppm	0.1459 ppm	0.0016 ppm	0.0034 ppm	0.0001 ppm
Concentration per Run 3	-0.0009 ppm	0.3327 ppm	-0.0023 ppm	0.1453 ppm	0.0011 ppm	0.0027 ppm	-0.0005 ppm
Concentration RSD	8,215.9 %	1.0 %	9.5 %	0.3 %	22.3 %	52.0 %	785.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0061 ppm	76.7292 %	91.2591 %	73.4086 %	76.5464 %	89.7311 %	79.5310 %
Concentration per Run 1	0.0066 ppm	75.1127 %	90.4362 %	73.0902 %	76.1197 %	89.3123 %	79.4293 %
Concentration per Run 2	0.0059 ppm	77.0044 %	91.1595 %	72.8466 %	76.4207 %	89.5926 %	79.3828 %
Concentration per Run 3	0.0057 ppm	78.0705 %	92.1816 %	74.2890 %	77.0986 %	90.2885 %	79.7809 %
Concentration RSD	7.8 %	2.0 %	1.0 %	1.1 %	0.7 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432883-01 WG1935332
Analysis started at: 6/19/2024 2:35:20 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0007 ppm	0.0007 ppm	0.0178 ppm	0.1044 ppm	0.0001 ppm	21.0017 ppm
Concentration per Run 1	-0.0005 ppm	-0.0031 ppm	0.0013 ppm	0.0193 ppm	0.1042 ppm	0.0001 ppm	20.9728 ppm
Concentration per Run 2	-0.0007 ppm	0.0091 ppm	-0.0001 ppm	0.0176 ppm	0.1039 ppm	0.0001 ppm	20.9870 ppm
Concentration per Run 3	-0.0013 ppm	-0.0039 ppm	0.0011 ppm	0.0165 ppm	0.1051 ppm	0.0000 ppm	21.0455 ppm
Concentration RSD	47.7 %	1,035.1 %	102.0 %	8.0 %	0.6 %	85.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0004 ppm	0.0047 ppm	15.0384 ppm	4.3007 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	-0.0006 ppm	0.0045 ppm	15.0047 ppm	4.2813 ppm	-0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0005 ppm	0.0047 ppm	15.0265 ppm	4.3365 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0048 ppm	15.0840 ppm	4.2843 ppm	-0.0010 ppm
Concentration RSD	228.5 %	82.0 %	59.1 %	4.0 %	0.3 %	0.7 %	63.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.9285 ppm	0.8940 ppm	-0.0009 ppm	38.9854 ppm	0.0064 ppm	-0.0006 ppm	-0.0002 ppm
Concentration per Run 1	5.0234 ppm	0.8926 ppm	-0.0003 ppm	39.0466 ppm	0.0061 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	4.9077 ppm	0.8928 ppm	-0.0011 ppm	38.9103 ppm	0.0068 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 3	4.8542 ppm	0.8965 ppm	-0.0011 ppm	38.9994 ppm	0.0062 ppm	-0.0016 ppm	-0.0004 ppm
Concentration RSD	1.8 %	0.2 %	56.3 %	0.2 %	6.6 %	144.8 %	240.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	13.9160 ppm	-0.0015 ppm	0.4773 ppm	0.0007 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0026 ppm	14.1377 ppm	-0.0013 ppm	0.4758 ppm	0.0011 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 2	-0.0009 ppm	13.8600 ppm	-0.0018 ppm	0.4778 ppm	0.0006 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	13.7504 ppm	-0.0014 ppm	0.4783 ppm	0.0005 ppm	0.0020 ppm	-0.0001 ppm
Concentration RSD	344.8 %	1.4 %	16.3 %	0.3 %	41.6 %	19.3 %	29.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0245 ppm	101.1065 %	103.5464 %	101.2036 %	99.8463 %	101.2234 %	101.7061 %
Concentration per Run 1	0.0252 ppm	99.3603 %	103.6057 %	100.8428 %	99.2734 %	101.6691 %	101.7278 %
Concentration per Run 2	0.0240 ppm	101.0560 %	104.3492 %	101.2563 %	99.7128 %	101.8138 %	101.7350 %
Concentration per Run 3	0.0244 ppm	102.9034 %	102.6843 %	101.5116 %	100.5528 %	100.1873 %	101.6556 %
Concentration RSD	2.5 %	1.8 %	0.8 %	0.3 %	0.7 %	0.9 %	0.0 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432931-01 WG1935332
Analysis started at: 6/19/2024 2:39:19 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	4.1555 ppm	-0.0004 ppm	0.0230 ppm	0.0219 ppm	0.0001 ppm	33.1172 ppm
Concentration per Run 1	-0.0004 ppm	4.1769 ppm	-0.0017 ppm	0.0234 ppm	0.0221 ppm	0.0001 ppm	33.3641 ppm
Concentration per Run 2	-0.0004 ppm	4.1406 ppm	0.0008 ppm	0.0233 ppm	0.0222 ppm	0.0000 ppm	32.9904 ppm
Concentration per Run 3	-0.0011 ppm	4.1491 ppm	-0.0005 ppm	0.0223 ppm	0.0215 ppm	0.0001 ppm	32.9972 ppm
Concentration RSD	59.5 %	0.5 %	292.3 %	2.7 %	1.7 %	60.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0073 ppm	0.0073 ppm	0.1427 ppm	1.4762 ppm	-0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0072 ppm	0.0077 ppm	0.1431 ppm	1.5228 ppm	-0.0020 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0073 ppm	0.0070 ppm	0.1440 ppm	1.4756 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0073 ppm	0.0071 ppm	0.1409 ppm	1.4301 ppm	-0.0029 ppm
Concentration RSD	74.5 %	2,501.5 %	0.9 %	4.8 %	1.1 %	3.1 %	55.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.0560 ppm	0.1081 ppm	0.0002 ppm	11.5980 ppm	0.0079 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 1	9.2882 ppm	0.1090 ppm	0.0002 ppm	11.6875 ppm	0.0085 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 2	9.0206 ppm	0.1076 ppm	0.0002 ppm	11.5922 ppm	0.0077 ppm	0.0013 ppm	-0.0027 ppm
Concentration per Run 3	8.8591 ppm	0.1076 ppm	0.0002 ppm	11.5141 ppm	0.0074 ppm	0.0014 ppm	0.0011 ppm
Concentration RSD	2.4 %	0.8 %	18.4 %	0.7 %	7.2 %	70.2 %	454.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	0.3343 ppm	-0.0013 ppm	0.1614 ppm	0.0012 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	-0.0017 ppm	0.3438 ppm	-0.0007 ppm	0.1624 ppm	0.0010 ppm	0.0016 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.3307 ppm	-0.0018 ppm	0.1610 ppm	0.0015 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	-0.0024 ppm	0.3283 ppm	-0.0014 ppm	0.1608 ppm	0.0011 ppm	0.0014 ppm	0.0008 ppm
Concentration RSD	51.9 %	2.5 %	45.0 %	0.5 %	18.7 %	15.3 %	26.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	98.4889 %	102.6090 %	99.5295 %	100.0049 %	102.6067 %	102.0552 %
Concentration per Run 1	0.0043 ppm	95.7300 %	101.5056 %	98.5859 %	98.7880 %	101.9293 %	101.4235 %
Concentration per Run 2	0.0040 ppm	98.9898 %	102.7006 %	99.8972 %	99.9198 %	102.7442 %	102.4607 %
Concentration per Run 3	0.0040 ppm	100.7470 %	103.6208 %	100.1055 %	101.3069 %	103.1466 %	102.2814 %
Concentration RSD	3.9 %	2.6 %	1.0 %	0.8 %	1.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2432978-03 WG1935332
Analysis started at: 6/19/2024 2:43:19 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.2135 ppm	0.0023 ppm	46.4410 ppm	0.0493 ppm	0.0001 ppm	223.8726 ppm
Concentration per Run 1	-0.0007 ppm	0.2199 ppm	0.0036 ppm	47.5936 ppm	0.0493 ppm	0.0000 ppm	224.9146 ppm
Concentration per Run 2	-0.0009 ppm	0.2048 ppm	0.0011 ppm	46.2720 ppm	0.0494 ppm	0.0001 ppm	223.7207 ppm
Concentration per Run 3	-0.0005 ppm	0.2156 ppm	0.0022 ppm	45.4573 ppm	0.0491 ppm	0.0000 ppm	222.9825 ppm
Concentration RSD	27.9 %	3.6 %	54.7 %	2.3 %	0.3 %	46.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0061 ppm	0.0173 ppm	1.0005 ppm	8.3865 ppm	0.0628 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0063 ppm	0.0177 ppm	1.0031 ppm	8.4408 ppm	0.0613 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0062 ppm	0.0173 ppm	1.0026 ppm	8.3427 ppm	0.0637 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0056 ppm	0.0170 ppm	0.9957 ppm	8.3759 ppm	0.0634 ppm
Concentration RSD	47.9 %	985.0 %	6.2 %	2.3 %	0.4 %	0.6 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.6785 ppm	0.0862 ppm	0.0541 ppm	402.2780 ppm	0.0084 ppm	-0.0008 ppm	-0.0027 ppm
Concentration per Run 1	42.8020 ppm	0.0864 ppm	0.0548 ppm	404.9828 ppm	0.0078 ppm	-0.0010 ppm	-0.0028 ppm
Concentration per Run 2	41.4600 ppm	0.0861 ppm	0.0540 ppm	402.2119 ppm	0.0084 ppm	-0.0006 ppm	-0.0036 ppm
Concentration per Run 3	40.7736 ppm	0.0859 ppm	0.0535 ppm	399.6394 ppm	0.0090 ppm	-0.0010 ppm	-0.0016 ppm
Concentration RSD	2.5 %	0.3 %	1.2 %	0.7 %	6.8 %	29.0 %	37.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0042 ppm	4.3396 ppm	-0.0022 ppm	1.8977 ppm	0.0088 ppm	0.0022 ppm	0.0011 ppm
Concentration per Run 1	-0.0039 ppm	4.4402 ppm	-0.0038 ppm	1.9043 ppm	0.0088 ppm	0.0025 ppm	0.0011 ppm
Concentration per Run 2	-0.0031 ppm	4.3356 ppm	-0.0021 ppm	1.8950 ppm	0.0090 ppm	0.0024 ppm	0.0013 ppm
Concentration per Run 3	-0.0057 ppm	4.2430 ppm	-0.0008 ppm	1.8937 ppm	0.0085 ppm	0.0017 ppm	0.0009 ppm
Concentration RSD	31.6 %	2.3 %	66.2 %	0.3 %	3.1 %	20.9 %	17.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0313 ppm	95.4981 %	101.0274 %	91.7936 %	95.0132 %	99.9369 %	96.2922 %
Concentration per Run 1	0.0320 ppm	93.1747 %	100.3378 %	91.5973 %	93.8016 %	99.9239 %	96.2648 %
Concentration per Run 2	0.0313 ppm	95.9215 %	101.3688 %	92.1109 %	95.4451 %	100.2532 %	96.5705 %
Concentration per Run 3	0.0306 ppm	97.3982 %	101.3757 %	91.6728 %	95.7928 %	99.6335 %	96.0414 %
Concentration RSD	2.3 %	2.2 %	0.6 %	0.3 %	1.1 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-01 WG1935332
Analysis started at: 6/19/2024 2:47:18 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	1.1102 ppm	0.0004 ppm	0.0365 ppm	0.0683 ppm	0.0001 ppm	9.0896 ppm
Concentration per Run 1	-0.0006 ppm	1.1191 ppm	-0.0010 ppm	0.0381 ppm	0.0686 ppm	0.0001 ppm	9.0904 ppm
Concentration per Run 2	-0.0004 ppm	1.1167 ppm	0.0016 ppm	0.0364 ppm	0.0681 ppm	0.0002 ppm	9.0745 ppm
Concentration per Run 3	-0.0005 ppm	1.0947 ppm	0.0007 ppm	0.0349 ppm	0.0684 ppm	0.0001 ppm	9.1039 ppm
Concentration RSD	18.3 %	1.2 %	303.0 %	4.3 %	0.3 %	40.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0009 ppm	0.0025 ppm	0.0040 ppm	1.6105 ppm	1.4303 ppm	-0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0007 ppm	0.0021 ppm	0.0040 ppm	1.6156 ppm	1.4444 ppm	-0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0026 ppm	0.0040 ppm	1.6012 ppm	1.3927 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0029 ppm	0.0041 ppm	1.6145 ppm	1.4538 ppm	-0.0005 ppm
Concentration RSD	39.0 %	25.1 %	14.6 %	1.3 %	0.5 %	2.3 %	150.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.2455 ppm	0.2111 ppm	-0.0008 ppm	4.8224 ppm	0.0029 ppm	-0.0008 ppm	-0.0036 ppm
Concentration per Run 1	4.3649 ppm	0.2110 ppm	-0.0006 ppm	4.8324 ppm	0.0034 ppm	-0.0019 ppm	-0.0036 ppm
Concentration per Run 2	4.2240 ppm	0.2113 ppm	-0.0008 ppm	4.8061 ppm	0.0022 ppm	-0.0001 ppm	-0.0048 ppm
Concentration per Run 3	4.1475 ppm	0.2109 ppm	-0.0009 ppm	4.8287 ppm	0.0031 ppm	-0.0005 ppm	-0.0023 ppm
Concentration RSD	2.6 %	0.1 %	20.3 %	0.3 %	21.7 %	115.4 %	36.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	6.6654 ppm	-0.0023 ppm	0.0454 ppm	0.0811 ppm	0.0007 ppm	0.0024 ppm
Concentration per Run 1	-0.0005 ppm	6.8578 ppm	-0.0023 ppm	0.0455 ppm	0.0827 ppm	0.0010 ppm	0.0023 ppm
Concentration per Run 2	0.0006 ppm	6.6234 ppm	-0.0025 ppm	0.0454 ppm	0.0811 ppm	-0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.0005 ppm	6.5149 ppm	-0.0020 ppm	0.0454 ppm	0.0796 ppm	0.0013 ppm	0.0026 ppm
Concentration RSD	277.5 %	2.6 %	9.4 %	0.1 %	1.9 %	105.9 %	6.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0062 ppm	99.8268 %	103.4851 %	101.3012 %	101.9846 %	103.9977 %	104.1924 %
Concentration per Run 1	0.0064 ppm	97.4519 %	104.1588 %	100.6217 %	100.8628 %	104.9006 %	104.0229 %
Concentration per Run 2	0.0060 ppm	99.8323 %	103.1430 %	101.3681 %	101.7236 %	103.2089 %	104.3194 %
Concentration per Run 3	0.0062 ppm	102.1963 %	103.1536 %	101.9138 %	103.3673 %	103.8835 %	104.2349 %
Concentration RSD	3.4 %	2.4 %	0.6 %	0.6 %	1.2 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-02 WG1935332
Analysis started at: 6/19/2024 2:51:17 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0963 ppm	0.0003 ppm	0.0266 ppm	0.0301 ppm	0.0000 ppm	12.4535 ppm
Concentration per Run 1	-0.0004 ppm	0.0970 ppm	-0.0001 ppm	0.0266 ppm	0.0301 ppm	0.0000 ppm	12.5121 ppm
Concentration per Run 2	-0.0006 ppm	0.0985 ppm	-0.0003 ppm	0.0262 ppm	0.0302 ppm	0.0001 ppm	12.4457 ppm
Concentration per Run 3	-0.0007 ppm	0.0936 ppm	0.0012 ppm	0.0270 ppm	0.0301 ppm	0.0001 ppm	12.4028 ppm
Concentration RSD	34.5 %	2.6 %	293.4 %	1.6 %	0.3 %	112.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0042 ppm	0.0018 ppm	0.2624 ppm	1.2125 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0043 ppm	0.0017 ppm	0.2633 ppm	1.2723 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0040 ppm	0.0021 ppm	0.2643 ppm	1.1789 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0042 ppm	0.0015 ppm	0.2596 ppm	1.1863 ppm	0.0003 ppm
Concentration RSD	410.7 %	143.5 %	3.8 %	16.3 %	0.9 %	4.3 %	275.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7754 ppm	0.0047 ppm	-0.0005 ppm	17.6467 ppm	0.0016 ppm	-0.0018 ppm	-0.0025 ppm
Concentration per Run 1	5.9317 ppm	0.0048 ppm	-0.0002 ppm	17.7460 ppm	0.0019 ppm	-0.0029 ppm	-0.0040 ppm
Concentration per Run 2	5.7322 ppm	0.0047 ppm	-0.0005 ppm	17.6558 ppm	0.0014 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 3	5.6622 ppm	0.0047 ppm	-0.0007 ppm	17.5383 ppm	0.0016 ppm	-0.0014 ppm	-0.0033 ppm
Concentration RSD	2.4 %	0.7 %	46.4 %	0.6 %	16.2 %	59.0 %	77.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	8.6214 ppm	-0.0024 ppm	0.0679 ppm	0.0053 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0010 ppm	8.8333 ppm	-0.0015 ppm	0.0681 ppm	0.0057 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0011 ppm	8.5844 ppm	-0.0038 ppm	0.0678 ppm	0.0050 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0013 ppm	8.4465 ppm	-0.0019 ppm	0.0677 ppm	0.0053 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	569.5 %	2.3 %	50.5 %	0.3 %	6.8 %	126.4 %	36.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	99.9801 %	102.6137 %	100.9950 %	101.0899 %	102.5924 %	103.0531 %
Concentration per Run 1	0.0023 ppm	97.4580 %	101.8155 %	100.2915 %	99.6538 %	102.3249 %	102.8095 %
Concentration per Run 2	0.0020 ppm	100.9958 %	102.8981 %	101.5021 %	102.1285 %	102.7925 %	103.4063 %
Concentration per Run 3	0.0018 ppm	101.4866 %	103.1276 %	101.1913 %	101.4874 %	102.6599 %	102.9436 %
Concentration RSD	12.2 %	2.2 %	0.7 %	0.6 %	1.3 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-05 WG1935332
Analysis started at: 6/19/2024 2:55:16 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0087 ppm	0.0004 ppm	0.0256 ppm	0.0162 ppm	0.0000 ppm	23.0615 ppm
Concentration per Run 1	-0.0006 ppm	0.0073 ppm	0.0005 ppm	0.0258 ppm	0.0161 ppm	0.0000 ppm	23.1390 ppm
Concentration per Run 2	-0.0006 ppm	0.0145 ppm	-0.0010 ppm	0.0265 ppm	0.0164 ppm	0.0001 ppm	23.0213 ppm
Concentration per Run 3	-0.0005 ppm	0.0044 ppm	0.0018 ppm	0.0247 ppm	0.0162 ppm	0.0000 ppm	23.0242 ppm
Concentration RSD	13.0 %	59.6 %	335.5 %	3.6 %	0.9 %	43.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0012 ppm	0.0213 ppm	1.5585 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0011 ppm	0.0013 ppm	0.0216 ppm	1.5784 ppm	-0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0221 ppm	1.5600 ppm	-0.0028 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0013 ppm	0.0202 ppm	1.5372 ppm	-0.0004 ppm
Concentration RSD	433.3 %	128.6 %	49.5 %	12.2 %	4.7 %	1.3 %	74.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.5727 ppm	0.0010 ppm	-0.0007 ppm	13.4349 ppm	0.0002 ppm	-0.0012 ppm	-0.0006 ppm
Concentration per Run 1	6.7785 ppm	0.0010 ppm	-0.0003 ppm	13.4900 ppm	0.0000 ppm	-0.0009 ppm	-0.0033 ppm
Concentration per Run 2	6.5022 ppm	0.0010 ppm	-0.0008 ppm	13.4202 ppm	-0.0003 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 3	6.4375 ppm	0.0011 ppm	-0.0008 ppm	13.3944 ppm	0.0009 ppm	-0.0015 ppm	0.0012 ppm
Concentration RSD	2.8 %	7.7 %	40.7 %	0.4 %	346.9 %	27.1 %	364.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	2.9091 ppm	-0.0023 ppm	0.0828 ppm	0.0013 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	2.9837 ppm	-0.0022 ppm	0.0834 ppm	0.0014 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 2	-0.0023 ppm	2.8931 ppm	-0.0029 ppm	0.0825 ppm	0.0013 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 3	-0.0005 ppm	2.8505 ppm	-0.0018 ppm	0.0825 ppm	0.0013 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	118.8 %	2.3 %	23.8 %	0.6 %	4.9 %	76.7 %	287.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	98.9690 %	102.3265 %	100.7274 %	100.8788 %	102.4122 %	103.0825 %
Concentration per Run 1	0.0010 ppm	96.5259 %	101.8298 %	100.4912 %	99.7586 %	102.4806 %	103.2327 %
Concentration per Run 2	0.0010 ppm	99.7250 %	102.6431 %	100.7589 %	101.3467 %	102.5672 %	103.3751 %
Concentration per Run 3	0.0012 ppm	100.6562 %	102.5067 %	100.9322 %	101.5312 %	102.1888 %	102.6397 %
Concentration RSD	13.9 %	2.2 %	0.4 %	0.2 %	1.0 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-06 WG1935332
Analysis started at: 6/19/2024 2:59:13 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0734 ppm	-0.0003 ppm	0.1041 ppm	0.0156 ppm	0.0000 ppm	19.8251 ppm
Concentration per Run 1	-0.0005 ppm	0.0771 ppm	0.0002 ppm	0.1053 ppm	0.0158 ppm	0.0000 ppm	19.8997 ppm
Concentration per Run 2	-0.0008 ppm	0.0722 ppm	-0.0003 ppm	0.1034 ppm	0.0156 ppm	0.0000 ppm	19.7835 ppm
Concentration per Run 3	-0.0007 ppm	0.0709 ppm	-0.0008 ppm	0.1036 ppm	0.0156 ppm	0.0001 ppm	19.7921 ppm
Concentration RSD	22.9 %	4.4 %	163.1 %	1.0 %	0.8 %	127.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0037 ppm	0.0014 ppm	0.1042 ppm	1.4993 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0036 ppm	0.0014 ppm	0.1062 ppm	1.5433 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0039 ppm	0.0013 ppm	0.1029 ppm	1.4978 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0034 ppm	0.0015 ppm	0.1037 ppm	1.4568 ppm	0.0028 ppm
Concentration RSD	102.5 %	1,497.3 %	7.6 %	7.8 %	1.7 %	2.9 %	453.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6060 ppm	0.0028 ppm	-0.0008 ppm	15.6905 ppm	0.0018 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 1	9.5939 ppm	0.0027 ppm	-0.0006 ppm	15.7435 ppm	0.0022 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 2	9.7192 ppm	0.0026 ppm	-0.0007 ppm	15.6339 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	9.5048 ppm	0.0030 ppm	-0.0010 ppm	15.6940 ppm	0.0025 ppm	-0.0017 ppm	-0.0013 ppm
Concentration RSD	1.1 %	7.4 %	26.2 %	0.3 %	63.4 %	45.2 %	924.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0005 ppm	10.6903 ppm	-0.0020 ppm	0.0956 ppm	0.0024 ppm	0.0006 ppm	0.0012 ppm
Concentration per Run 1	0.0018 ppm	10.6693 ppm	-0.0020 ppm	0.0957 ppm	0.0026 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 2	-0.0022 ppm	10.8422 ppm	-0.0023 ppm	0.0953 ppm	0.0023 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 3	-0.0012 ppm	10.5594 ppm	-0.0018 ppm	0.0959 ppm	0.0022 ppm	-0.0008 ppm	0.0014 ppm
Concentration RSD	396.1 %	1.3 %	12.7 %	0.4 %	9.1 %	320.6 %	13.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	96.2981 %	98.3091 %	96.2503 %	97.8557 %	98.5683 %	98.9050 %
Concentration per Run 1	0.0023 ppm	96.5985 %	97.5161 %	95.6770 %	99.1537 %	98.2225 %	98.8486 %
Concentration per Run 2	0.0022 ppm	95.1879 %	98.4193 %	96.1899 %	96.8598 %	98.3918 %	98.9727 %
Concentration per Run 3	0.0025 ppm	97.1079 %	98.9920 %	96.8838 %	97.5537 %	99.0906 %	98.8936 %
Concentration RSD	6.6 %	1.0 %	0.8 %	0.6 %	1.2 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 3:03:11 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4918 ppm	0.4835 ppm	0.4792 ppm	0.4844 ppm	0.4889 ppm	0.5039 ppm	0.5003 ppm
Concentration per Run 1	0.4971 ppm	0.4825 ppm	0.4798 ppm	0.4902 ppm	0.4895 ppm	0.5051 ppm	0.4999 ppm
Concentration per Run 2	0.4905 ppm	0.4875 ppm	0.4792 ppm	0.4805 ppm	0.4888 ppm	0.5029 ppm	0.4981 ppm
Concentration per Run 3	0.4877 ppm	0.4804 ppm	0.4786 ppm	0.4826 ppm	0.4883 ppm	0.5037 ppm	0.5030 ppm
Recovery Percentage 1	98.353 %	96.694 %	95.843 %	96.886 %	97.774 %	100.782 %	100.064 %
Concentration RSD	1.0 %	0.7 %	0.1 %	1.1 %	0.1 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4948 ppm	0.4960 ppm	0.4865 ppm	0.4809 ppm	0.5242 ppm	5.2212 ppm	0.4820 ppm
Concentration per Run 1	0.5012 ppm	0.5037 ppm	0.4930 ppm	0.4852 ppm	0.5242 ppm	5.2488 ppm	0.4896 ppm
Concentration per Run 2	0.4922 ppm	0.4934 ppm	0.4843 ppm	0.4795 ppm	0.5212 ppm	5.2307 ppm	0.4821 ppm
Concentration per Run 3	0.4910 ppm	0.4911 ppm	0.4823 ppm	0.4779 ppm	0.5271 ppm	5.1842 ppm	0.4743 ppm
Recovery Percentage 1	98.955 %	99.206 %	97.305 %	96.173 %	104.836 %	104.425 %	96.397 %
Concentration RSD	1.1 %	1.4 %	1.2 %	0.8 %	0.6 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4831 ppm	0.5018 ppm	0.4817 ppm	10.7461 ppm	0.4996 ppm	0.4855 ppm	0.4796 ppm
Concentration per Run 1	0.4917 ppm	0.5020 ppm	0.4840 ppm	10.7385 ppm	0.5060 ppm	0.4866 ppm	0.4848 ppm
Concentration per Run 2	0.4805 ppm	0.5009 ppm	0.4798 ppm	10.7446 ppm	0.4964 ppm	0.4838 ppm	0.4807 ppm
Concentration per Run 3	0.4772 ppm	0.5023 ppm	0.4814 ppm	10.7553 ppm	0.4965 ppm	0.4862 ppm	0.4732 ppm
Recovery Percentage 1	96.625 %	100.353 %	96.347 %	107.461 %	99.929 %	97.109 %	95.913 %
Concentration RSD	1.6 %	0.1 %	0.4 %	0.1 %	1.1 %	0.3 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4836 ppm	5.1006 ppm	0.5065 ppm	0.4918 ppm	0.4994 ppm	0.4886 ppm	0.4875 ppm
Concentration per Run 1	0.4799 ppm	5.1600 ppm	0.5114 ppm	0.4918 ppm	0.5062 ppm	0.4905 ppm	0.4935 ppm
Concentration per Run 2	0.4839 ppm	5.0883 ppm	0.5025 ppm	0.4914 ppm	0.4968 ppm	0.4889 ppm	0.4844 ppm
Concentration per Run 3	0.4869 ppm	5.0534 ppm	0.5056 ppm	0.4922 ppm	0.4951 ppm	0.4864 ppm	0.4847 ppm
Recovery Percentage 1	96.717 %	97.153 %	101.302 %	98.361 %	99.874 %	97.717 %	97.507 %
Concentration RSD	0.7 %	1.1 %	0.9 %	0.1 %	1.2 %	0.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	103.8554 %	103.1366 %	102.4649 %	98.3857 %	99.3775 %	100.2441 %
Concentration per Run 1	0.5049 ppm	102.2392 %	103.0485 %	102.1790 %	96.8371 %	99.3601 %	100.1411 %
Concentration per Run 2	0.4938 ppm	104.5953 %	103.1346 %	102.6127 %	99.1033 %	99.3199 %	100.1526 %
Concentration per Run 3	0.4967 ppm	104.7317 %	103.2265 %	102.6031 %	99.2167 %	99.4525 %	100.4386 %
Recovery Percentage 1	99.702 %						
Concentration RSD	1.2 %	1.3 %	0.1 %	0.2 %	1.4 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:07:09 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	-0.0009 ppm	0.0008 ppm	0.0024 ppm	-0.0002 ppm	0.0000 ppm	0.0127 ppm
Concentration per Run 1	-0.0012 ppm	-0.0046 ppm	0.0018 ppm	0.0024 ppm	0.0000 ppm	0.0001 ppm	0.0115 ppm
Concentration per Run 2	-0.0003 ppm	0.0068 ppm	-0.0002 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0160 ppm
Concentration per Run 3	-0.0007 ppm	-0.0049 ppm	0.0008 ppm	0.0031 ppm	-0.0003 ppm	0.0000 ppm	0.0105 ppm
Recovery Percentage 1	-10.272 %	-0.889 %	27.250 %	8.102 %	-1.867 %	0.403 %	12.653 %
Concentration RSD	66.8 %	749.6 %	122.4 %	27.0 %	101.0 %	302.3 %	23.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0059 ppm	-0.0848 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	-0.0001 ppm	0.0010 ppm	0.0061 ppm	-0.0621 ppm	-0.0040 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0048 ppm	-0.1015 ppm	-0.0055 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0070 ppm	-0.0907 ppm	-0.0027 ppm
Recovery Percentage 1	1.025 %	-1.695 %	2.035 %	10.354 %	11.895 %	-3.391 %	-40.762 %
Concentration RSD	13.0 %	116.5 %	247.0 %	3.1 %	18.1 %	24.0 %	33.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0003 ppm	0.0003 ppm	0.2826 ppm	-0.0008 ppm	-0.0008 ppm	-0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.2885 ppm	-0.0008 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 2	-0.0012 ppm	0.0004 ppm	0.0006 ppm	0.2834 ppm	-0.0010 ppm	-0.0008 ppm	-0.0033 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.2759 ppm	-0.0004 ppm	-0.0010 ppm	-0.0032 ppm
Recovery Percentage 1	-0.551 %	2.960 %	0.546 %	14.131 %	-3.002 %	-8.193 %	-4.801 %
Concentration RSD	107.5 %	44.3 %	108.0 %	2.2 %	40.6 %	18.8 %	59.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0006 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0013 ppm	0.0032 ppm	0.0004 ppm	-0.0001 ppm	0.0008 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	0.0003 ppm	-0.0008 ppm	-0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0003 ppm	-0.0003 ppm	0.0009 ppm	-0.0009 ppm	-0.0005 ppm
Recovery Percentage 1	-3.220 %	0.113 %	-0.092 %	-1.898 %	9.005 %	-2.077 %	-4.494 %
Concentration RSD	262.0 %	403.5 %	904.9 %	61.4 %	13.0 %	142.1 %	11.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	97.6458 %	99.6592 %	98.9941 %	99.3536 %	100.4912 %	101.6205 %
Concentration per Run 1	0.0009 ppm	95.2439 %	99.4149 %	98.4036 %	98.0480 %	100.5399 %	101.4887 %
Concentration per Run 2	0.0010 ppm	98.2400 %	99.4579 %	98.8886 %	99.8780 %	100.5101 %	101.3383 %
Concentration per Run 3	0.0010 ppm	99.4535 %	100.1049 %	99.6901 %	100.1347 %	100.4235 %	102.0346 %
Recovery Percentage 1	18.932 %						
Concentration RSD	3.4 %	2.2 %	0.4 %	0.7 %	1.1 %	0.1 %	0.4 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: WG1936224-1 WG1936224
Analysis started at: 6/19/2024 3:13:47 PM
Rack 2
Vial 24
Comment Fe+ rr

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0091 ppm	-0.0003 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	0.0287 ppm
Concentration per Run 1	-0.0004 ppm	-0.0018 ppm	-0.0006 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0308 ppm
Concentration per Run 2	-0.0007 ppm	0.0185 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0269 ppm
Concentration per Run 3	-0.0004 ppm	0.0106 ppm	0.0002 ppm	0.0037 ppm	0.0001 ppm	0.0000 ppm	0.0285 ppm
Recovery Percentage 1	-7.177 %	9.120 %	-9.116 %	9.110 %	0.626 %	1.059 %	28.731 %
Concentration RSD	38.8 %	112.6 %	153.7 %	32.6 %	84.1 %	71.9 %	6.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0012 ppm	**0.1282 ppm**	-0.0732 ppm	-0.0057 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0012 ppm	0.1288 ppm	-0.0575 ppm	-0.0050 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0011 ppm	0.1275 ppm	-0.0952 ppm	-0.0069 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0007 ppm	0.0013 ppm	0.1283 ppm	-0.0669 ppm	-0.0053 ppm
Recovery Percentage 1	-0.128 %	-1.230 %	6.143 %	11.920 %	256.406 %	-2.928 %	-57.183 %
Concentration RSD	1,294.9 %	68.6 %	30.5 %	5.2 %	**0.5 %**	26.8 %	17.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0069 ppm	0.0008 ppm	-0.0005 ppm	0.2677 ppm	-0.0005 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.0063 ppm	0.0010 ppm	-0.0003 ppm	0.2660 ppm	-0.0010 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0083 ppm	0.0007 ppm	-0.0007 ppm	0.2709 ppm	0.0004 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 3	0.0060 ppm	0.0007 ppm	-0.0005 ppm	0.2661 ppm	-0.0010 ppm	-0.0008 ppm	-0.0023 ppm
Recovery Percentage 1	6.895 %	8.130 %	-1.023 %	13.384 %	-2.085 %	-6.836 %	-1.816 %
Concentration RSD	17.8 %	21.3 %	39.0 %	1.1 %	156.2 %	35.4 %	134.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0163 ppm	0.0005 ppm	-0.0002 ppm	0.0014 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0134 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0238 ppm	0.0014 ppm	-0.0003 ppm	0.0017 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	-0.0013 ppm	0.0117 ppm	0.0000 ppm	-0.0003 ppm	0.0015 ppm	0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-4.229 %	3.259 %	0.910 %	-1.887 %	14.285 %	-0.529 %	-1.524 %
Concentration RSD	179.1 %	40.1 %	187.8 %	94.8 %	19.9 %	711.8 %	116.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	101.7665 %	100.9005 %	100.4081 %	99.0043 %	99.0061 %	100.4712 %
Concentration per Run 1	0.0016 ppm	100.3349 %	100.9545 %	99.9758 %	97.8790 %	99.2819 %	99.9154 %
Concentration per Run 2	0.0020 ppm	102.3290 %	100.2234 %	101.0605 %	99.6544 %	98.4358 %	101.1539 %
Concentration per Run 3	0.0018 ppm	102.6356 %	101.5235 %	100.1880 %	99.4795 %	99.3006 %	100.3443 %
Recovery Percentage 1	35.875 %						
Concentration RSD	10.8 %	1.2 %	0.6 %	0.6 %	1.0 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-07 WG1935332
Analysis started at: 6/19/2024 3:20:47 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0116 ppm	0.0011 ppm	0.0994 ppm	0.0690 ppm	0.0000 ppm	87.3378 ppm
Concentration per Run 1	-0.0013 ppm	0.0126 ppm	-0.0005 ppm	0.1011 ppm	0.0693 ppm	0.0000 ppm	87.5535 ppm
Concentration per Run 2	-0.0007 ppm	0.0134 ppm	0.0021 ppm	0.0978 ppm	0.0690 ppm	0.0000 ppm	87.1775 ppm
Concentration per Run 3	-0.0008 ppm	0.0088 ppm	0.0018 ppm	0.0993 ppm	0.0687 ppm	0.0000 ppm	87.2825 ppm
Concentration RSD	32.0 %	21.0 %	126.8 %	1.6 %	0.4 %	18.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0035 ppm	0.0222 ppm	5.9939 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0030 ppm	0.0231 ppm	6.0568 ppm	-0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0035 ppm	0.0207 ppm	5.9640 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0041 ppm	0.0227 ppm	5.9609 ppm	-0.0027 ppm
Concentration RSD	82.6 %	426.4 %	66.7 %	14.9 %	5.7 %	0.9 %	34.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.6008 ppm	0.1206 ppm	-0.0001 ppm	11.1590 ppm	0.0001 ppm	-0.0010 ppm	-0.0012 ppm
Concentration per Run 1	14.7803 ppm	0.1209 ppm	-0.0002 ppm	11.1989 ppm	-0.0001 ppm	-0.0019 ppm	-0.0009 ppm
Concentration per Run 2	14.5823 ppm	0.1203 ppm	0.0003 ppm	11.1342 ppm	0.0004 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 3	14.4397 ppm	0.1207 ppm	-0.0003 ppm	11.1439 ppm	0.0000 ppm	-0.0009 ppm	-0.0021 ppm
Concentration RSD	1.2 %	0.3 %	409.5 %	0.3 %	248.0 %	80.4 %	71.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.7108 ppm	-0.0023 ppm	0.4510 ppm	0.0014 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0011 ppm	4.7660 ppm	-0.0030 ppm	0.4528 ppm	0.0014 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	4.7020 ppm	-0.0013 ppm	0.4498 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	4.6643 ppm	-0.0025 ppm	0.4505 ppm	0.0013 ppm	0.0003 ppm	0.0004 ppm
Concentration RSD	62.1 %	1.1 %	39.6 %	0.3 %	10.2 %	91.6 %	31.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0018 ppm	100.9019 %	102.0627 %	98.4627 %	100.4567 %	101.2053 %	100.3227 %
Concentration per Run 1	0.0017 ppm	100.2724 %	101.0422 %	98.4656 %	100.5768 %	100.4292 %	100.6031 %
Concentration per Run 2	0.0018 ppm	100.7136 %	102.8374 %	98.3256 %	100.1450 %	101.9403 %	100.2112 %
Concentration per Run 3	0.0019 ppm	101.7199 %	102.3084 %	98.5969 %	100.6483 %	101.2464 %	100.1538 %
Concentration RSD	4.7 %	0.7 %	0.9 %	0.1 %	0.3 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

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LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-08 WG1935332
Analysis started at: 6/19/2024 3:24:52 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0893 ppm	0.0000 ppm	0.0138 ppm	0.0111 ppm	0.0001 ppm	11.5414 ppm
Concentration per Run 1	-0.0005 ppm	0.0859 ppm	-0.0001 ppm	0.0151 ppm	0.0110 ppm	0.0001 ppm	11.5440 ppm
Concentration per Run 2	-0.0010 ppm	0.0965 ppm	0.0005 ppm	0.0125 ppm	0.0111 ppm	0.0001 ppm	11.5402 ppm
Concentration per Run 3	-0.0006 ppm	0.0856 ppm	-0.0004 ppm	0.0138 ppm	0.0112 ppm	0.0001 ppm	11.5401 ppm
Concentration RSD	41.0 %	7.0 %	6,278.8 %	9.1 %	1.1 %	13.9 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0031 ppm	0.0013 ppm	0.1813 ppm	1.0800 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0031 ppm	0.0011 ppm	0.1830 ppm	1.0980 ppm	-0.0016 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0031 ppm	0.0017 ppm	0.1814 ppm	1.0596 ppm	-0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0032 ppm	0.0011 ppm	0.1795 ppm	1.0825 ppm	-0.0011 ppm
Concentration RSD	100.7 %	116.8 %	2.0 %	28.8 %	1.0 %	1.8 %	34.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5003 ppm	0.0119 ppm	-0.0009 ppm	18.2021 ppm	0.0004 ppm	-0.0012 ppm	-0.0017 ppm
Concentration per Run 1	5.6480 ppm	0.0119 ppm	-0.0007 ppm	18.2755 ppm	0.0002 ppm	-0.0012 ppm	-0.0020 ppm
Concentration per Run 2	5.4601 ppm	0.0119 ppm	-0.0015 ppm	18.1646 ppm	0.0005 ppm	-0.0008 ppm	-0.0021 ppm
Concentration per Run 3	5.3927 ppm	0.0118 ppm	-0.0006 ppm	18.1663 ppm	0.0005 ppm	-0.0015 ppm	-0.0009 ppm
Concentration RSD	2.4 %	0.4 %	57.4 %	0.3 %	46.3 %	30.4 %	41.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	7.3527 ppm	-0.0027 ppm	0.0565 ppm	0.0035 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	-0.0036 ppm	7.5555 ppm	-0.0030 ppm	0.0567 ppm	0.0035 ppm	-0.0011 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	7.2817 ppm	-0.0027 ppm	0.0565 ppm	0.0036 ppm	0.0026 ppm	0.0006 ppm
Concentration per Run 3	0.0013 ppm	7.2209 ppm	-0.0024 ppm	0.0564 ppm	0.0035 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	912.3 %	2.4 %	10.0 %	0.3 %	1.9 %	675.5 %	38.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	99.2353 %	100.8903 %	99.7255 %	100.4090 %	101.0422 %	102.0631 %
Concentration per Run 1	0.0020 ppm	97.0017 %	100.9540 %	99.2362 %	99.5326 %	100.9941 %	102.1002 %
Concentration per Run 2	0.0019 ppm	99.4944 %	101.4132 %	99.2432 %	100.2758 %	101.5047 %	101.6558 %
Concentration per Run 3	0.0019 ppm	101.2099 %	100.3039 %	100.6970 %	101.4186 %	100.6277 %	102.4334 %
Concentration RSD	3.5 %	2.1 %	0.6 %	0.8 %	0.9 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-09 WG1935332
Analysis started at: 6/19/2024 3:28:51 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0029 ppm	0.0005 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0408 ppm
Concentration per Run 1	-0.0007 ppm	0.0018 ppm	0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0000 ppm	0.0391 ppm
Concentration per Run 2	-0.0002 ppm	0.0077 ppm	-0.0011 ppm	0.0014 ppm	0.0011 ppm	0.0000 ppm	0.0407 ppm
Concentration per Run 3	-0.0004 ppm	-0.0008 ppm	0.0018 ppm	0.0012 ppm	0.0012 ppm	-0.0001 ppm	0.0427 ppm
Concentration RSD	61.9 %	150.0 %	300.5 %	7.1 %	4.1 %	557.0 %	4.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0083 ppm	-0.0486 ppm	-0.0042 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0014 ppm	0.0077 ppm	-0.0505 ppm	-0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0079 ppm	-0.0415 ppm	-0.0055 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0094 ppm	-0.0539 ppm	-0.0041 ppm
Concentration RSD	143.6 %	361.9 %	23.5 %	69.3 %	10.8 %	13.2 %	29.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0112 ppm	0.0003 ppm	-0.0015 ppm	0.1457 ppm	-0.0006 ppm	-0.0019 ppm	-0.0019 ppm
Concentration per Run 1	0.0105 ppm	0.0004 ppm	-0.0017 ppm	0.1452 ppm	-0.0007 ppm	-0.0005 ppm	-0.0038 ppm
Concentration per Run 2	0.0113 ppm	0.0004 ppm	-0.0013 ppm	0.1451 ppm	-0.0008 ppm	-0.0019 ppm	-0.0032 ppm
Concentration per Run 3	0.0117 ppm	0.0001 ppm	-0.0014 ppm	0.1469 ppm	-0.0002 ppm	-0.0033 ppm	0.0013 ppm
Concentration RSD	5.6 %	60.0 %	12.9 %	0.7 %	61.8 %	74.3 %	147.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0142 ppm	-0.0029 ppm	0.0001 ppm	0.0010 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0140 ppm	-0.0030 ppm	0.0000 ppm	0.0012 ppm	0.0018 ppm	-0.0003 ppm
Concentration per Run 2	0.0030 ppm	0.0154 ppm	-0.0033 ppm	0.0000 ppm	0.0008 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 3	0.0008 ppm	0.0132 ppm	-0.0024 ppm	0.0003 ppm	0.0010 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	147.3 %	7.9 %	16.9 %	186.5 %	17.8 %	81.4 %	202.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0103 ppm	97.9411 %	101.1271 %	99.5218 %	100.9551 %	102.6147 %	103.4028 %
Concentration per Run 1	0.0105 ppm	95.6180 %	100.6755 %	99.0987 %	99.8718 %	102.7826 %	103.4239 %
Concentration per Run 2	0.0105 ppm	98.5773 %	101.2739 %	99.4903 %	101.3124 %	102.7477 %	103.5428 %
Concentration per Run 3	0.0101 ppm	99.6280 %	101.4319 %	99.9765 %	101.6810 %	102.3136 %	103.2416 %
Concentration RSD	2.4 %	2.1 %	0.4 %	0.4 %	0.9 %	0.3 %	0.1 %

iCAP Pro Trace 8 Data report

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LabBook: WG1936236_06192024T8.imexp

Sample: L2433035-10 WG1935332
Analysis started at: 6/19/2024 3:32:49 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0055 ppm	0.0010 ppm	0.0282 ppm	0.0220 ppm	0.0000 ppm	10.2960 ppm
Concentration per Run 1	-0.0009 ppm	0.0049 ppm	-0.0002 ppm	0.0276 ppm	0.0221 ppm	0.0000 ppm	10.3202 ppm
Concentration per Run 2	-0.0004 ppm	0.0152 ppm	0.0010 ppm	0.0282 ppm	0.0220 ppm	0.0000 ppm	10.2896 ppm
Concentration per Run 3	-0.0003 ppm	-0.0035 ppm	0.0021 ppm	0.0287 ppm	0.0219 ppm	0.0000 ppm	10.2784 ppm
Concentration RSD	52.8 %	168.8 %	119.4 %	2.0 %	0.4 %	222.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0025 ppm	0.0010 ppm	0.0010 ppm	2.9696 ppm	0.9147 ppm	-0.0024 ppm
Concentration per Run 1	0.0001 ppm	0.0024 ppm	0.0013 ppm	0.0012 ppm	2.9674 ppm	0.9460 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0008 ppm	0.0011 ppm	2.9695 ppm	0.9116 ppm	-0.0042 ppm
Concentration per Run 3	0.0000 ppm	0.0030 ppm	0.0008 ppm	0.0008 ppm	2.9718 ppm	0.8866 ppm	0.0010 ppm
Concentration RSD	171.1 %	16.3 %	30.1 %	16.2 %	0.1 %	3.3 %	123.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.5874 ppm	0.0411 ppm	-0.0012 ppm	8.9333 ppm	0.0015 ppm	-0.0014 ppm	-0.0003 ppm
Concentration per Run 1	4.7178 ppm	0.0412 ppm	-0.0012 ppm	8.9894 ppm	0.0020 ppm	-0.0025 ppm	0.0002 ppm
Concentration per Run 2	4.5385 ppm	0.0411 ppm	-0.0013 ppm	8.9154 ppm	0.0018 ppm	-0.0006 ppm	-0.0014 ppm
Concentration per Run 3	4.5059 ppm	0.0411 ppm	-0.0011 ppm	8.8949 ppm	0.0007 ppm	-0.0011 ppm	0.0004 ppm
Concentration RSD	2.5 %	0.0 %	8.2 %	0.6 %	44.7 %	70.8 %	374.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	7.9990 ppm	-0.0023 ppm	0.0397 ppm	0.0011 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 1	-0.0015 ppm	8.2195 ppm	-0.0034 ppm	0.0397 ppm	0.0011 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	7.9425 ppm	-0.0021 ppm	0.0397 ppm	0.0010 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 3	-0.0008 ppm	7.8349 ppm	-0.0015 ppm	0.0395 ppm	0.0013 ppm	0.0025 ppm	-0.0003 ppm
Concentration RSD	101.9 %	2.5 %	41.7 %	0.4 %	12.5 %	142.5 %	21.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	97.8896 %	101.2272 %	99.1866 %	99.0687 %	100.7324 %	101.2848 %
Concentration per Run 1	0.0062 ppm	95.4328 %	100.4447 %	98.7071 %	97.7988 %	100.3513 %	101.5457 %
Concentration per Run 2	0.0060 ppm	98.7780 %	101.6160 %	99.5054 %	99.5442 %	101.1720 %	101.4124 %
Concentration per Run 3	0.0058 ppm	99.4581 %	101.6208 %	99.3474 %	99.8630 %	100.6740 %	100.8963 %
Concentration RSD	3.4 %	2.2 %	0.7 %	0.4 %	1.1 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433067-02 WG1935332
Analysis started at: 6/19/2024 3:36:47 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0009 ppm	0.0019 ppm	0.0004 ppm	0.0152 ppm	0.0054 ppm	0.0000 ppm	27.4722 ppm
Concentration per Run 1	-0.0010 ppm	0.0038 ppm	0.0006 ppm	0.0159 ppm	0.0053 ppm	0.0000 ppm	27.6404 ppm
Concentration per Run 2	-0.0011 ppm	-0.0075 ppm	0.0001 ppm	0.0156 ppm	0.0055 ppm	0.0000 ppm	27.5019 ppm
Concentration per Run 3	-0.0007 ppm	0.0094 ppm	0.0005 ppm	0.0143 ppm	0.0055 ppm	0.0001 ppm	27.2743 ppm
Concentration RSD	21.7 %	457.0 %	76.2 %	5.5 %	1.9 %	52.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0021 ppm	0.0945 ppm	2.5472 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0023 ppm	0.0964 ppm	2.5912 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0022 ppm	0.0937 ppm	2.5165 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0000 ppm	0.0017 ppm	0.0934 ppm	2.5339 ppm	-0.0024 ppm
Concentration RSD	2,095.1 %	48.9 %	1,779.7 %	15.1 %	1.8 %	1.5 %	106.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0749 ppm	1.5281 ppm	0.0023 ppm	109.5639 ppm	0.0037 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 1	6.2523 ppm	1.5396 ppm	0.0020 ppm	109.9391 ppm	0.0038 ppm	-0.0021 ppm	0.0021 ppm
Concentration per Run 2	6.0458 ppm	1.5278 ppm	0.0024 ppm	109.6228 ppm	0.0034 ppm	-0.0011 ppm	-0.0029 ppm
Concentration per Run 3	5.9265 ppm	1.5168 ppm	0.0027 ppm	109.1300 ppm	0.0038 ppm	-0.0005 ppm	0.0013 ppm
Concentration RSD	2.7 %	0.7 %	15.3 %	0.4 %	6.3 %	62.5 %	1,596.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.6927 ppm	-0.0021 ppm	0.1854 ppm	0.0009 ppm	0.0018 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	4.8252 ppm	-0.0018 ppm	0.1858 ppm	0.0008 ppm	0.0023 ppm	-0.0006 ppm
Concentration per Run 2	0.0009 ppm	4.6737 ppm	-0.0020 ppm	0.1853 ppm	0.0009 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	4.5793 ppm	-0.0026 ppm	0.1852 ppm	0.0010 ppm	0.0019 ppm	-0.0004 ppm
Concentration RSD	1,006.5 %	2.6 %	17.9 %	0.2 %	11.6 %	28.7 %	61.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	98.7488 %	102.8319 %	99.1100 %	99.7559 %	102.3440 %	101.9783 %
Concentration per Run 1	0.0017 ppm	96.0831 %	102.4623 %	98.5491 %	98.2789 %	102.4164 %	102.1242 %
Concentration per Run 2	0.0015 ppm	99.3598 %	103.1338 %	98.9009 %	100.1663 %	102.8459 %	101.8138 %
Concentration per Run 3	0.0017 ppm	100.8034 %	102.8996 %	99.8800 %	100.8226 %	101.7698 %	101.9968 %
Concentration RSD	7.3 %	2.4 %	0.3 %	0.7 %	1.3 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433067-04 WG1935332
Analysis started at: 6/19/2024 3:40:46 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0070 ppm	-0.0001 ppm	0.0152 ppm	0.0053 ppm	0.0000 ppm	27.3134 ppm
Concentration per Run 1	-0.0006 ppm	0.0014 ppm	-0.0001 ppm	0.0156 ppm	0.0054 ppm	0.0000 ppm	27.3354 ppm
Concentration per Run 2	-0.0004 ppm	0.0102 ppm	-0.0012 ppm	0.0151 ppm	0.0054 ppm	0.0000 ppm	27.2870 ppm
Concentration per Run 3	-0.0006 ppm	0.0093 ppm	0.0010 ppm	0.0149 ppm	0.0052 ppm	0.0001 ppm	27.3178 ppm
Concentration RSD	14.6 %	70.0 %	879.0 %	2.6 %	2.4 %	37.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0997 ppm	2.5267 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0024 ppm	0.0993 ppm	2.5759 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0027 ppm	0.1001 ppm	2.5082 ppm	-0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0022 ppm	0.0998 ppm	2.4960 ppm	-0.0036 ppm
Concentration RSD	161.5 %	22.1 %	239.1 %	8.5 %	0.4 %	1.7 %	67.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0735 ppm	1.4845 ppm	0.0022 ppm	108.9005 ppm	0.0029 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 1	6.2357 ppm	1.4850 ppm	0.0025 ppm	109.0409 ppm	0.0032 ppm	-0.0012 ppm	0.0016 ppm
Concentration per Run 2	6.0394 ppm	1.4829 ppm	0.0022 ppm	108.9777 ppm	0.0036 ppm	-0.0014 ppm	0.0009 ppm
Concentration per Run 3	5.9453 ppm	1.4856 ppm	0.0018 ppm	108.6829 ppm	0.0020 ppm	-0.0019 ppm	-0.0021 ppm
Concentration RSD	2.4 %	0.1 %	14.5 %	0.2 %	28.2 %	24.8 %	1,181.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	4.7034 ppm	-0.0021 ppm	0.1836 ppm	0.0011 ppm	0.0011 ppm	-0.0004 ppm
Concentration per Run 1	-0.0006 ppm	4.8273 ppm	-0.0018 ppm	0.1854 ppm	0.0009 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	-0.0006 ppm	4.6767 ppm	-0.0025 ppm	0.1827 ppm	0.0012 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	4.6061 ppm	-0.0020 ppm	0.1827 ppm	0.0011 ppm	0.0017 ppm	-0.0005 ppm
Concentration RSD	73.7 %	2.4 %	18.0 %	0.8 %	11.0 %	51.8 %	54.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	99.4048 %	103.8792 %	99.7735 %	100.7398 %	103.6136 %	102.7697 %
Concentration per Run 1	0.0012 ppm	96.8981 %	103.4067 %	99.2215 %	99.2057 %	103.5083 %	102.4501 %
Concentration per Run 2	0.0013 ppm	99.8348 %	103.7870 %	100.4405 %	101.2710 %	103.1811 %	103.5559 %
Concentration per Run 3	0.0012 ppm	101.4815 %	104.4438 %	99.6585 %	101.7426 %	104.1515 %	102.3031 %
Concentration RSD	2.6 %	2.3 %	0.5 %	0.6 %	1.3 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: L2433137-02D2 WG1935332
Analysis started at: 6/19/2024 3:44:45 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	0.3091 ppm	0.0501 ppm	7.3028 ppm	0.1472 ppm	0.0001 ppm	26.9022 ppm
Concentration per Run 1	-0.0006 ppm	0.3071 ppm	0.0508 ppm	7.5146 ppm	0.1475 ppm	0.0001 ppm	27.0909 ppm
Concentration per Run 2	-0.0002 ppm	0.3080 ppm	0.0493 ppm	7.2363 ppm	0.1466 ppm	0.0000 ppm	26.9038 ppm
Concentration per Run 3	-0.0004 ppm	0.3121 ppm	0.0502 ppm	7.1575 ppm	0.1476 ppm	0.0001 ppm	26.7120 ppm
Concentration RSD	47.7 %	0.9 %	1.5 %	2.6 %	0.4 %	114.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0118 ppm	0.0895 ppm	0.0133 ppm	3.0981 ppm	158.3414 ppm	0.2467 ppm
Concentration per Run 1	0.0001 ppm	0.0125 ppm	0.0922 ppm	0.0136 ppm	3.1106 ppm	157.9029 ppm	0.2496 ppm
Concentration per Run 2	0.0001 ppm	0.0116 ppm	0.0887 ppm	0.0135 ppm	3.0920 ppm	159.0689 ppm	0.2462 ppm
Concentration per Run 3	0.0000 ppm	0.0113 ppm	0.0875 ppm	0.0127 ppm	3.0916 ppm	158.0524 ppm	0.2444 ppm
Concentration RSD	93.5 %	5.1 %	2.8 %	3.9 %	0.3 %	0.4 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.0674 ppm	0.2268 ppm	0.0021 ppm	488.1671 ppm	0.0667 ppm	0.0035 ppm	0.0046 ppm
Concentration per Run 1	23.6408 ppm	0.2270 ppm	0.0026 ppm	490.4631 ppm	0.0695 ppm	0.0030 ppm	0.0035 ppm
Concentration per Run 2	22.9495 ppm	0.2260 ppm	0.0022 ppm	487.5563 ppm	0.0662 ppm	0.0041 ppm	0.0049 ppm
Concentration per Run 3	22.6118 ppm	0.2273 ppm	0.0017 ppm	486.4818 ppm	0.0645 ppm	0.0034 ppm	0.0053 ppm
Concentration RSD	2.3 %	0.3 %	19.8 %	0.4 %	3.8 %	16.6 %	21.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	9.7122 ppm	0.0183 ppm	0.3009 ppm	0.0680 ppm	0.0014 ppm	0.0127 ppm
Concentration per Run 1	0.0005 ppm	9.9696 ppm	0.0191 ppm	0.3019 ppm	0.0700 ppm	-0.0009 ppm	0.0133 ppm
Concentration per Run 2	-0.0002 ppm	9.6332 ppm	0.0185 ppm	0.3005 ppm	0.0676 ppm	0.0028 ppm	0.0125 ppm
Concentration per Run 3	0.0017 ppm	9.5337 ppm	0.0175 ppm	0.3002 ppm	0.0665 ppm	0.0024 ppm	0.0123 ppm
Concentration RSD	152.0 %	2.4 %	4.4 %	0.3 %	2.7 %	139.1 %	4.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0343 ppm	95.3669 %	100.1139 %	93.3122 %	94.4342 %	98.7650 %	97.3477 %
Concentration per Run 1	0.0353 ppm	93.2442 %	99.5739 %	92.4661 %	93.3530 %	98.5884 %	97.1271 %
Concentration per Run 2	0.0341 ppm	95.8932 %	100.1427 %	93.3540 %	94.6752 %	98.8981 %	97.3650 %
Concentration per Run 3	0.0335 ppm	96.9633 %	100.6249 %	94.1163 %	95.2745 %	98.8085 %	97.5510 %
Concentration RSD	2.7 %	2.0 %	0.5 %	0.9 %	1.0 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCV
Analysis started at: 6/19/2024 3:48:44 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4906 ppm	0.4790 ppm	0.4775 ppm	0.4876 ppm	0.4851 ppm	0.5016 ppm	0.4962 ppm
Concentration per Run 1	0.4972 ppm	0.4861 ppm	0.4785 ppm	0.4962 ppm	0.4880 ppm	0.5027 ppm	0.4959 ppm
Concentration per Run 2	0.4890 ppm	0.4798 ppm	0.4765 ppm	0.4832 ppm	0.4850 ppm	0.4999 ppm	0.4986 ppm
Concentration per Run 3	0.4856 ppm	0.4711 ppm	0.4774 ppm	0.4834 ppm	0.4825 ppm	0.5022 ppm	0.4941 ppm
Recovery Percentage 1	98.117 %	95.802 %	95.501 %	97.520 %	97.029 %	100.324 %	99.245 %
Concentration RSD	1.2 %	1.6 %	0.2 %	1.5 %	0.6 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4928 ppm	0.4934 ppm	0.4850 ppm	0.4817 ppm	0.5136 ppm	5.2955 ppm	0.4852 ppm
Concentration per Run 1	0.4996 ppm	0.5011 ppm	0.4916 ppm	0.4896 ppm	0.5192 ppm	5.3887 ppm	0.4904 ppm
Concentration per Run 2	0.4923 ppm	0.4927 ppm	0.4836 ppm	0.4799 ppm	0.5096 ppm	5.2728 ppm	0.4856 ppm
Concentration per Run 3	0.4864 ppm	0.4865 ppm	0.4798 ppm	0.4756 ppm	0.5122 ppm	5.2250 ppm	0.4797 ppm
Recovery Percentage 1	98.551 %	98.687 %	97.000 %	96.342 %	102.726 %	105.910 %	97.038 %
Concentration RSD	1.3 %	1.5 %	1.2 %	1.5 %	1.0 %	1.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4801 ppm	0.4991 ppm	0.4789 ppm	10.5985 ppm	0.4971 ppm	0.4835 ppm	0.4766 ppm
Concentration per Run 1	0.4886 ppm	0.5014 ppm	0.4824 ppm	10.6640 ppm	0.5066 ppm	0.4833 ppm	0.4870 ppm
Concentration per Run 2	0.4772 ppm	0.4978 ppm	0.4787 ppm	10.5785 ppm	0.4960 ppm	0.4823 ppm	0.4685 ppm
Concentration per Run 3	0.4746 ppm	0.4979 ppm	0.4755 ppm	10.5529 ppm	0.4888 ppm	0.4851 ppm	0.4745 ppm
Recovery Percentage 1	96.023 %	99.810 %	95.776 %	105.985 %	99.425 %	96.708 %	95.329 %
Concentration RSD	1.5 %	0.4 %	0.7 %	0.5 %	1.8 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4788 ppm	5.1824 ppm	0.5063 ppm	0.4890 ppm	0.4966 ppm	0.4837 ppm	0.4870 ppm
Concentration per Run 1	0.4851 ppm	5.2490 ppm	0.5132 ppm	0.4910 ppm	0.5034 ppm	0.4888 ppm	0.4940 ppm
Concentration per Run 2	0.4743 ppm	5.1733 ppm	0.5070 ppm	0.4880 ppm	0.4953 ppm	0.4816 ppm	0.4850 ppm
Concentration per Run 3	0.4769 ppm	5.1250 ppm	0.4987 ppm	0.4879 ppm	0.4912 ppm	0.4805 ppm	0.4819 ppm
Recovery Percentage 1	95.751 %	98.713 %	101.257 %	97.790 %	99.325 %	96.731 %	97.392 %
Concentration RSD	1.2 %	1.2 %	1.4 %	0.4 %	1.3 %	0.9 %	1.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4968 ppm	105.0181 %	104.3888 %	102.9489 %	99.7284 %	100.3168 %	100.9118 %
Concentration per Run 1	0.5046 ppm	103.9134 %	103.3304 %	102.5067 %	98.9473 %	99.6129 %	100.3016 %
Concentration per Run 2	0.4960 ppm	104.8389 %	104.5404 %	103.1452 %	99.7706 %	100.2203 %	101.0960 %
Concentration per Run 3	0.4900 ppm	106.3018 %	105.2955 %	103.1948 %	100.4675 %	101.1171 %	101.3379 %
Recovery Percentage 1	99.368 %						
Concentration RSD	1.5 %	1.1 %	0.9 %	0.4 %	0.8 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

6/19/2024 3:59:04 PM

LabBook: WG1936236_06192024T8.imexp

Sample: CCB
Analysis started at: 6/19/2024 3:52:42 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0053 ppm	-0.0005 ppm	0.0022 ppm	-0.0004 ppm	0.0001 ppm	0.0126 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	0.0017 ppm	0.0016 ppm	-0.0004 ppm	0.0001 ppm	0.0109 ppm
Concentration per Run 2	-0.0006 ppm	0.0071 ppm	-0.0007 ppm	0.0032 ppm	-0.0002 ppm	0.0000 ppm	0.0166 ppm
Concentration per Run 3	-0.0001 ppm	0.0080 ppm	-0.0026 ppm	0.0019 ppm	-0.0004 ppm	0.0001 ppm	0.0104 ppm
Recovery Percentage 1	-3.485 %	5.259 %	-17.170 %	7.412 %	-3.712 %	2.496 %	12.645 %
Concentration RSD	129.9 %	75.7 %	419.7 %	37.6 %	33.1 %	54.5 %	27.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0059 ppm	-0.0410 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0058 ppm	-0.0668 ppm	-0.0052 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0050 ppm	-0.0274 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0069 ppm	-0.0287 ppm	-0.0034 ppm
Recovery Percentage 1	1.634 %	-0.548 %	0.471 %	8.698 %	11.844 %	-1.639 %	-30.466 %
Concentration RSD	88.0 %	194.5 %	783.0 %	15.3 %	16.6 %	54.6 %	78.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.1725 ppm	-0.0003 ppm	-0.0013 ppm	-0.0005 ppm
Concentration per Run 1	0.0007 ppm	0.0002 ppm	0.0004 ppm	0.1726 ppm	-0.0011 ppm	-0.0024 ppm	0.0008 ppm
Concentration per Run 2	-0.0021 ppm	0.0004 ppm	0.0001 ppm	0.1758 ppm	0.0003 ppm	-0.0003 ppm	-0.0040 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	-0.0002 ppm	0.1692 ppm	-0.0003 ppm	-0.0013 ppm	0.0017 ppm
Recovery Percentage 1	-0.656 %	2.275 %	0.266 %	8.626 %	-1.381 %	-12.942 %	-1.031 %
Concentration RSD	211.1 %	51.4 %	235.7 %	1.9 %	193.5 %	81.8 %	596.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0105 ppm	-0.0010 ppm	-0.0002 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0005 ppm	0.0119 ppm	-0.0022 ppm	-0.0002 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	0.0102 ppm	-0.0007 ppm	-0.0003 ppm	0.0008 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0017 ppm	0.0094 ppm	-0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0019 ppm	-0.0005 ppm
Recovery Percentage 1	-0.025 %	2.099 %	-2.051 %	-1.979 %	8.686 %	3.870 %	-2.312 %
Concentration RSD	59,104.2 %	11.9 %	102.4 %	40.6 %	17.8 %	142.9 %	97.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	98.8891 %	99.8331 %	99.8683 %	100.6549 %	100.7428 %	102.6747 %
Concentration per Run 1	0.0013 ppm	96.6320 %	99.1665 %	99.5464 %	99.4255 %	100.5184 %	102.4295 %
Concentration per Run 2	0.0012 ppm	99.5159 %	100.2933 %	100.1184 %	101.4118 %	101.1278 %	102.8355 %
Concentration per Run 3	0.0012 ppm	100.5194 %	100.0396 %	99.9402 %	101.1273 %	100.5823 %	102.7592 %
Recovery Percentage 1	24.664 %						
Concentration RSD	6.5 %	2.0 %	0.6 %	0.3 %	1.1 %	0.3 %	0.2 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

ACCREDITED ACCREDITED

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

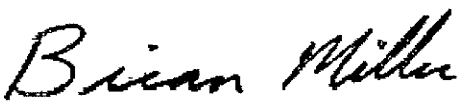
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 9

6/18/2024 6:20:39 AM

LabBook: WG1935383_06172024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank CEY Trace9	0	1	6/17/2024 2:01:54 PM
2	ICAL	0	2	6/17/2024 2:05:47 PM
3	ICV	0	3	6/17/2024 2:11:58 PM
4	ICB	0	4	6/17/2024 2:15:29 PM
5	IS Check	0	4	6/17/2024 2:29:26 PM
6	ICV Peak Check	0	3	6/17/2024 2:48:43 PM
7	ICV Peak Check	0	3	6/17/2024 2:58:01 PM
8	ICV Peak Check	0	3	6/17/2024 3:12:44 PM
9	Blank CEY Trace9	0	1	6/17/2024 3:19:32 PM
10	ICAL	0	2	6/17/2024 3:23:25 PM
11	ICV	0	3	6/17/2024 3:26:53 PM
12	ICB	0	4	6/17/2024 3:30:21 PM
13	ICV	0	3	6/17/2024 3:34:32 PM
14	ICB	0	4	6/17/2024 3:38:00 PM
15	LLOQ	0	5	6/17/2024 3:45:03 PM
16	ICSA	0	6	6/17/2024 3:48:38 PM
17	SIC Multi	0	7	6/17/2024 4:09:54 PM
18	LDR Check	0	8	6/17/2024 4:13:31 PM
19	LLOQ 005 As pass	1	1	6/17/2024 4:26:22 PM
20	LLOQ 01 Se pass	1	2	6/17/2024 4:29:56 PM
21	IEC 500 Al Pb+ As+	1	3	6/17/2024 4:33:24 PM
22	xIEC 10 V Tl-	1	4	6/17/2024 4:36:52 PM
23	xwrong spot	0	7	6/17/2024 4:41:23 PM
24	IEC 20 Ti Tl-	1	5	6/17/2024 4:49:14 PM
25	LDR 500 Na pass	1	6	6/17/2024 4:59:34 PM
26	LDR 20 Si pass	1	7	6/17/2024 5:03:14 PM
27	LDR 20 As pass	1	8	6/17/2024 5:06:44 PM
28	LDR 10 Sn pass	1	9	6/17/2024 5:10:14 PM
29	xwrong spot	0	7	6/17/2024 5:13:44 PM
30	xIEC 20 Cr Tl-	1	10	6/17/2024 5:21:10 PM
31	IEC 20 Mn Tl-	1	11	6/17/2024 5:27:58 PM
32	CCV	0	3	6/17/2024 5:55:31 PM
33	CCB	0	4	6/17/2024 5:59:11 PM
34	WG1935350-1 WG1935350	1	13	6/17/2024 7:12:07 PM
35	WG1935350-2d2 WG1935350	1	14	6/17/2024 7:15:47 PM
36	WG1935350-3d2 WG1935350	1	15	6/17/2024 7:19:14 PM
37	TEST IPS 0746 ADG	1	12	6/17/2024 7:22:42 PM
38	L2432695-06d2 WG1935350	1	16	6/17/2024 7:26:13 PM
39	L2432695-07d2 WG1935350	1	17	6/17/2024 7:29:41 PM
40	L2432700-01d2 WG1935350	1	18	6/17/2024 7:33:09 PM
41	L2432705-01d2 WG1935350	1	19	6/17/2024 7:36:38 PM
42	CCV	0	3	6/17/2024 7:40:06 PM
43	CCB	0	4	6/17/2024 7:43:35 PM
44	L2432705-02d2 WG1935350	1	20	6/17/2024 7:47:11 PM
45	L2432705-03d2 WG1935350	1	21	6/17/2024 7:50:40 PM
46	L2432705-07d2 WG1935350	1	22	6/17/2024 7:54:09 PM
47	L2432736-02d2 WG1935350	1	23	6/17/2024 7:57:39 PM
48	L2432736-03d2 WG1935350	1	24	6/17/2024 8:01:09 PM
49	eL2433078-01d2 WG1935350	1	25	6/17/2024 8:04:40 PM
50	eL2433078-03d2 WG1935350	1	26	6/17/2024 8:08:07 PM
51	L2433078-04d2 WG1935350	1	27	6/17/2024 8:11:34 PM
52	L2433081-01d2 WG1935350	1	28	6/17/2024 8:15:02 PM
53	L2433730-01d2 WG1935350	1	29	6/17/2024 8:18:30 PM
54	CCV	0	3	6/17/2024 8:21:59 PM
55	CCB	0	4	6/17/2024 8:25:28 PM
56	WG1934744-1 WG1934744	1	33	6/17/2024 8:29:05 PM
57	WG1934744-2 WG1934744	1	34	6/17/2024 8:32:35 PM
58	L2433067-03 WG1934744	1	35	6/17/2024 8:36:05 PM
59	L2433078-01d4 WG1935350	1	30	6/17/2024 8:39:35 PM
60	L2433078-03d4 WG1935350	1	31	6/17/2024 8:43:04 PM
61	eL2433078-04d10 WG1935350	1	32	6/17/2024 8:46:33 PM
62	eL2433078-04d20 WG1935350	1	36	6/17/2024 8:52:08 PM
63	L2433078-04d40 WG1935350	1	37	6/17/2024 8:59:10 PM
64	CCV	0	3	6/17/2024 9:02:54 PM
65	CCB	0	4	6/17/2024 9:06:23 PM
66	WG1935332-1 WG1935332	1	38	6/17/2024 10:11:53 PM
67	WG1935332-2 WG1935332	1	39	6/17/2024 10:21:25 PM
68	L2433035-03 WG1935332	1	40	6/17/2024 10:24:59 PM

Sequence Trace 9

6/18/2024 6:20:39 AM

Index	Label	Rack	Vial	Started at
69	WG1935332-3 WG1935332	1	41	6/17/2024 10:28:27 PM
70	WG1935332-4 WG1935332	1	42	6/17/2024 10:31:56 PM
71	WG1935332-5 WG1935332	1	43	6/17/2024 10:35:25 PM
72	WG1935332-6d5 WG1935332	1	44	6/17/2024 10:38:54 PM
73	CCV	0	3	6/17/2024 10:42:24 PM
74	CCB	0	4	6/17/2024 10:45:53 PM
75	L2432783-01 WG1935332	1	50	6/17/2024 10:49:33 PM
76	L2433035-04 WG1935332	1	45	6/17/2024 10:53:01 PM
77	WG1935332-7 WG1935332	1	46	6/17/2024 10:56:31 PM
78	WG1935332-8 WG1935332	1	47	6/17/2024 11:00:01 PM
79	WG1935332-9 WG1935332	1	48	6/17/2024 11:03:31 PM
80	WG1935332-10d5 WG1935332	1	49	6/17/2024 11:07:02 PM
81	CCV	0	3	6/17/2024 11:10:31 PM
82	CCB	0	4	6/17/2024 11:14:01 PM
83	CCV	0	3	6/17/2024 11:17:31 PM
84	CCB	0	4	6/17/2024 11:21:00 PM
85	LLOQ	0	5	6/17/2024 11:24:30 PM

Sequence Trace 5

6/19/2024 6:18:31 AM

LabBook: WG1935621_06182024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	XBlank DHL Trace5	0	1	6/18/2024 8:53:41 AM
2	XICAL	0	2	6/18/2024 9:00:08 AM
3	XICV	0	3	6/18/2024 9:06:21 AM
4	Blank DHL Trace5	0	1	6/18/2024 10:45:04 AM
5	ICAL	0	2	6/18/2024 10:51:23 AM
6	ICV	0	3	6/18/2024 10:57:25 AM
7	ICB	0	4	6/18/2024 11:03:29 AM
8	ICV	0	3	6/18/2024 11:12:16 AM
9	ICB	0	4	6/18/2024 11:18:20 AM
10	LLOQ RL	0	5	6/18/2024 11:24:41 AM
11	ICSA	0	6	6/18/2024 11:30:58 AM
12	SIC Multi	0	7	6/18/2024 12:07:53 PM
13	LDR Check	0	8	6/18/2024 12:14:37 PM
14	LLOQ 0.01 Se pass	1	1	6/18/2024 12:31:58 PM
15	IEC 10 V Tl+ Zn+	1	3	6/18/2024 12:38:13 PM
16	IEC 500 Al Pb-	1	2	6/18/2024 12:44:41 PM
17	LDR 300 K pass	1	4	6/18/2024 12:59:21 PM
18	LDR 200 Na pass	1	5	6/18/2024 1:08:17 PM
19	LDR 20 Si pass	1	6	6/18/2024 1:14:38 PM
20	LDR 10 Sn pass	1	7	6/18/2024 1:20:57 PM
21	IEC 20 Cr Zn- V- Sb+	1	8	6/18/2024 1:27:50 PM
22	CCV	0	3	6/18/2024 1:49:18 PM
23	CCB	0	4	6/18/2024 1:55:22 PM
24	WG1935616-1 WG1935616	1	9	6/18/2024 2:07:10 PM
25	WG1935616-2D2 WG1935616	1	10	6/18/2024 2:13:31 PM
26	WG1935616-3D2 WG1935616	1	11	6/18/2024 2:19:34 PM
27	I2432997-03D2 WG1935616	1	12	6/18/2024 2:25:38 PM
28	WG1935616-4D2 WG1935616	1	13	6/18/2024 2:31:50 PM
29	WG1935616-4D2 WG1935616	1	14	6/18/2024 2:37:52 PM
30	WG1935616-5D2 WG1935616	1	15	6/18/2024 2:43:55 PM
31	WG1935616-5D2 WG1935616	1	16	6/18/2024 2:49:59 PM
32	WG1935616-7D2 WG1935616	1	17	6/18/2024 2:56:02 PM
33	WG1935616-6D10 WG1935616	1	18	6/18/2024 3:02:06 PM
34	CCV	0	3	6/18/2024 3:08:17 PM
35	CCB	0	4	6/18/2024 3:14:21 PM
36	I2430864-01D2 WG1935616	1	19	6/18/2024 3:29:59 PM
37	I2430864-02D2 WG1935616	1	20	6/18/2024 3:36:10 PM
38	CCV	0	3	6/18/2024 3:42:21 PM
39	CCB	0	4	6/18/2024 3:48:25 PM
40	WG1935805-1 WG1935805	1	21	6/18/2024 4:00:54 PM
41	WG1935805-2 WG1935805	1	22	6/18/2024 4:07:14 PM
42	L2432741-22 WG1935805	1	28	6/18/2024 4:13:21 PM
43	L2432741-23 WG1935805	1	29	6/18/2024 4:19:36 PM
44	L2432741-24 WG1935805	1	30	6/18/2024 4:25:49 PM
45	L2432741-21 WG1935805	1	23	6/18/2024 4:32:05 PM
46	WG1935805-3 WG1935805	1	24	6/18/2024 4:38:22 PM
47	WG1935805-4 WG1935805	1	25	6/18/2024 4:44:28 PM
48	WG1935805-5 WG1935805	1	26	6/18/2024 4:50:43 PM
49	WG1935805-6D5 WG1935805	1	27	6/18/2024 4:56:46 PM
50	CCV	0	3	6/18/2024 5:03:01 PM
51	CCB	0	4	6/18/2024 5:09:05 PM
52	L2432741-25 WG1935805	1	31	6/18/2024 5:33:12 PM
53	L2432741-26 WG1935805	1	32	6/18/2024 5:39:27 PM
54	L2432741-27 WG1935805	1	33	6/18/2024 5:45:41 PM
55	L2432741-28 WG1935805	1	34	6/18/2024 5:51:56 PM
56	L2432741-29 WG1935805	1	35	6/18/2024 5:58:12 PM
57	L2432741-30 WG1935805	1	36	6/18/2024 6:04:28 PM
58	L2432741-31 WG1935805	1	37	6/18/2024 6:10:44 PM
59	CCV	0	3	6/18/2024 6:16:57 PM
60	CCB	0	4	6/18/2024 6:23:01 PM
61	WG1935663-1 WG1935663	1	38	6/18/2024 6:36:28 PM
62	WG1935663-2D2 WG1935663	1	39	6/18/2024 6:42:46 PM
63	WG1935663-3D2 WG1935663	1	40	6/18/2024 6:48:47 PM
64	I2432805-02D2 WG1935663	1	41	6/18/2024 6:54:48 PM
65	I2432808-02D2 WG1935663	1	42	6/18/2024 7:00:55 PM
66	I2432843-01D2 WG1935663	1	43	6/18/2024 7:07:03 PM
67	el2433096-01D2 WG1935663	1	44	6/18/2024 7:13:11 PM
68	I2433123-01D2 WG1935663	1	45	6/18/2024 7:19:26 PM
69	I2433123-02D2 WG1935663	1	46	6/18/2024 7:25:34 PM
70	I2433096-01D4 WG1935663	2	2	6/18/2024 7:38:26 PM
71	CCV	0	3	6/18/2024 7:44:34 PM
72	CCB	0	4	6/18/2024 7:50:38 PM

Sequence Trace 5

6/19/2024 6:18:31 AM

Index:	Label:	Rack	Vial	Start time:
73	wg1935811-1 wg1935811	1	47	6/18/2024 8:02:56 PM
74	wg1935811-2 wg1935811	1	48	6/18/2024 8:09:17 PM
75	wg1935811-3 wg1935811	1	49	6/18/2024 8:15:24 PM
76	L2433498-01 wg1935811	1	50	6/18/2024 8:21:29 PM
77	wg1935811-4 wg1935811	1	51	6/18/2024 8:27:50 PM
78	wg1935811-5 wg1935811	1	52	6/18/2024 8:34:03 PM
79	wg1935811-7 wg1935811	1	53	6/18/2024 8:40:16 PM
80	wg1935811-6d5 wg1935811	1	54	6/18/2024 8:46:29 PM
81	CCV	0	3	6/18/2024 8:52:44 PM
82	CCB	0	4	6/18/2024 8:58:49 PM
83	L2433022-01 wg1935811	1	55	6/18/2024 9:05:47 PM
84	L2433022-02 wg1935811	1	56	6/18/2024 9:11:57 PM
85	L2433022-03 wg1935811	1	57	6/18/2024 9:18:08 PM
86	L2433022-04 wg1935811	1	58	6/18/2024 9:24:19 PM
87	L2433110-01 wg1935811	1	59	6/18/2024 9:30:34 PM
88	eL2433110-02 wg1935811	1	60	6/18/2024 9:36:55 PM
89	L2433110-03 wg1935811	2	1	6/18/2024 9:43:19 PM
90	CCV	0	3	6/18/2024 9:49:25 PM
91	CCB	0	4	6/18/2024 9:55:29 PM
92	WG1935323-2 wg1935323	2	20	6/18/2024 10:12:33 PM
93	eL2433110-02d5 wg1935811	2	21	6/18/2024 10:18:40 PM
94	xwrong spot	1	1	6/18/2024 10:32:32 PM
95	L2433110-02d10 wg1935811	2	22	6/18/2024 10:33:27 PM
96	CCV	0	3	6/18/2024 10:39:52 PM
97	CCB	0	4	6/18/2024 10:45:57 PM
98	L2432886-02 wg1935283	2	3	6/18/2024 10:54:51 PM
99	L2432957-01 wg1935283	2	4	6/18/2024 11:03:46 PM
100	L2433042-01 wg1935283	2	5	6/18/2024 11:10:01 PM
101	L2433053-01 wg1935283	2	6	6/18/2024 11:16:11 PM
102	L2433055-01 wg1935283	2	7	6/18/2024 11:22:24 PM
103	L2433056-01 wg1935283	2	8	6/18/2024 11:28:42 PM
104	L2433066-01 wg1935283	2	9	6/18/2024 11:34:56 PM
105	L2433113-02 wg1935283	2	10	6/18/2024 11:41:14 PM
106	L2433113-03 wg1935283	2	11	6/18/2024 11:47:28 PM
107	L2433113-04 wg1935283	2	12	6/18/2024 11:53:44 PM
108	CCV	0	3	6/18/2024 11:59:59 PM
109	CCB	0	4	6/19/2024 12:06:03 AM
110	L2433113-05 wg1935283	2	13	6/19/2024 12:12:25 AM
111	L2433113-06 wg1935283	2	14	6/19/2024 12:18:39 AM
112	L2433113-07 wg1935283	2	15	6/19/2024 12:24:53 AM
113	L2433113-08 wg1935283	2	16	6/19/2024 12:31:06 AM
114	L2433113-09 wg1935283	2	17	6/19/2024 12:37:20 AM
115	L2433113-10 wg1935283	2	18	6/19/2024 12:43:31 AM
116	L2433113-11 wg1935283	2	19	6/19/2024 12:49:44 AM
117	CCV	0	3	6/19/2024 12:55:58 AM
118	CCB	0	4	6/19/2024 1:02:03 AM
119	CCV	0	3	6/19/2024 1:08:25 AM
120	CCB	0	4	6/19/2024 1:14:30 AM
121	LLOQ RL	0	5	6/19/2024 1:20:51 AM

Sequence Trace 9

6/19/2024 6:27:56 AM

LabBook: WG1935555_06182024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank HJM Trace9	0	1	6/18/2024 4:45:01 AM
2	ICAL	0	2	6/18/2024 4:48:32 AM
3	ICV	0	3	6/18/2024 4:52:00 AM
4	ICB	0	4	6/18/2024 4:55:28 AM
5	ICV	0	3	6/18/2024 4:58:57 AM
6	ICB	0	4	6/18/2024 5:02:25 AM
7	LLOQ	0	5	6/18/2024 5:05:54 AM
8	ICSA	0	6	6/18/2024 5:09:24 AM
9	xSIC Multi	0	7	6/18/2024 5:12:54 AM
10	LDR Check	0	8	6/18/2024 5:16:24 AM
11	SIC Multi	0	7	6/18/2024 5:53:19 AM
12	LLOQ 0.005	1	1	6/18/2024 5:57:03 AM
13	LDR 20 As	1	2	6/18/2024 6:00:31 AM
14	LDR 400 Na	1	3	6/18/2024 6:03:59 AM
15	LDR 1000 Ca	1	4	6/18/2024 6:07:27 AM
16	LDR 500 Fe	1	5	6/18/2024 6:10:56 AM
17	LLOQ 0.01	1	6	6/18/2024 6:31:13 AM
18	no exposure	0	3	6/18/2024 6:37:23 AM
19	CCV	0	3	6/18/2024 6:38:02 AM
20	CCB	0	4	6/18/2024 6:41:43 AM
21	WG1935273-1 WG1935273	1	7	6/18/2024 6:51:14 AM
22	WG1935273-2d2 WG1935273	1	8	6/18/2024 6:54:56 AM
23	L2433746-01d2 WG1935273	1	31	6/18/2024 6:58:26 AM
24	L2432563-03d2 WG1935273	1	14	6/18/2024 7:01:54 AM
25	L2432791-01d2 WG1935273	1	15	6/18/2024 7:05:22 AM
26	L2432791-22d2 WG1935273	1	9	6/18/2024 7:08:49 AM
27	WG1935273-3d2 WG1935273	1	10	6/18/2024 7:12:19 AM
28	WG1935273-4d2 WG1935273	1	11	6/18/2024 7:15:49 AM
29	WG1935273-5d2 WG1935273	1	12	6/18/2024 7:19:20 AM
30	WG1935273-6d10 WG1935273	1	13	6/18/2024 7:22:51 AM
31	CCV	0	3	6/18/2024 7:26:18 AM
32	CCB	0	4	6/18/2024 7:29:47 AM
33	L2432791-02d2 WG1935273	1	16	6/18/2024 7:33:30 AM
34	L2432791-05d2 WG1935273	1	17	6/18/2024 7:36:58 AM
35	L2432791-06d2 WG1935273	1	18	6/18/2024 7:40:26 AM
36	L2432791-09d2 WG1935273	1	19	6/18/2024 7:43:54 AM
37	L2432791-10d2 WG1935273	1	20	6/18/2024 7:47:23 AM
38	L2432791-13d2 WG1935273	1	21	6/18/2024 7:50:52 AM
39	L2432791-14d2 WG1935273	1	22	6/18/2024 7:54:21 AM
40	L2432791-17d2 WG1935273	1	23	6/18/2024 7:57:51 AM
41	L2432791-18d2 WG1935273	1	24	6/18/2024 8:01:21 AM
42	L2432791-21d2 WG1935273	1	25	6/18/2024 8:04:51 AM
43	CCV	0	3	6/18/2024 8:08:18 AM
44	CCB	0	4	6/18/2024 8:11:47 AM
45	L2432791-25d2 WG1935273	1	26	6/18/2024 8:35:03 AM
46	L2432791-26d2 WG1935273	1	27	6/18/2024 8:38:45 AM
47	L2432791-29d2 WG1935273	1	28	6/18/2024 8:42:13 AM
48	L2432791-30d2 WG1935273	1	29	6/18/2024 8:45:40 AM
49	L2432791-33d2 WG1935273	1	30	6/18/2024 8:49:09 AM
50	L2432804-01D2 WG1935294	1	34	6/18/2024 8:52:37 AM
51	WG1935294-3D2 WG1935294	1	35	6/18/2024 8:56:07 AM
52	WG1935294-4D2 WG1935294	1	36	6/18/2024 8:59:37 AM
53	WG1935294-5D2 WG1935294	1	37	6/18/2024 9:03:07 AM
54	WG1935294-6D10 WG1935294	1	38	6/18/2024 9:06:35 AM
55	CCV	0	3	6/18/2024 9:10:02 AM
56	CCB	0	4	6/18/2024 9:13:31 AM
57	WG1935294-1 WG1935294	1	32	6/18/2024 9:20:57 AM
58	WG1935294-2D2 WG1935294	1	33	6/18/2024 9:24:33 AM
59	L2432523-01D2 WG1935294	1	39	6/18/2024 9:28:02 AM
60	L2432523-02D2 WG1935294	1	40	6/18/2024 9:31:30 AM
61	L2432523-03D2 WG1935294	1	41	6/18/2024 9:34:57 AM
62	L2432523-04D2 WG1935294	1	42	6/18/2024 9:38:26 AM
63	L2432523-05D2 WG1935294	1	43	6/18/2024 9:41:54 AM
64	L2432614-01D2 WG1935294	1	44	6/18/2024 9:45:23 AM
65	L2432647-01D2 WG1935294	1	45	6/18/2024 9:48:52 AM
66	L2432647-03D2 WG1935294	1	46	6/18/2024 9:52:21 AM
67	CCV	0	3	6/18/2024 9:55:51 AM
68	CCB	0	4	6/18/2024 9:59:20 AM

Sequence Trace 9

6/19/2024 6:27:56 AM

Index	Label	Rack	Vial	Started at
69	L2432647-05D2 WG1935294	1	47	6/18/2024 10:04:14 AM
70	L2432647-07D2 WG1935294	1	48	6/18/2024 10:07:53 AM
71	L2432647-09D2 WG1935294	1	49	6/18/2024 10:11:23 AM
72	L2432647-11D2 WG1935294	1	50	6/18/2024 10:14:51 AM
73	L2432657-01D2 WG1935294	1	51	6/18/2024 10:18:19 AM
74	L2432657-02D2 WG1935294	1	52	6/18/2024 10:21:48 AM
75	L2432657-03D2 WG1935294	1	53	6/18/2024 10:25:16 AM
76	L2432804-03D2 WG1935294	1	54	6/18/2024 10:28:45 AM
77	L2432804-07D2 WG1935294	1	55	6/18/2024 10:32:13 AM
78	L2432614-01D4 WG1935294	1	56	6/18/2024 10:35:42 AM
79	CCV	0	3	6/18/2024 10:39:11 AM
80	CCB	0	4	6/18/2024 10:42:40 AM
81	WG1935403-1 WG1935403	1	57	6/18/2024 10:54:58 AM
82	WG1935403-2D2 WG1935403	1	58	6/18/2024 10:58:45 AM
83	WG1935403-3D2 WG1935403	1	59	6/18/2024 11:02:14 AM
84	eL2430864-03D2 WG1935403	2	5	6/18/2024 11:05:45 AM
85	L2430864-05D2 WG1935403	2	6	6/18/2024 11:09:14 AM
86	L2430864-06D2 WG1935403	2	7	6/18/2024 11:12:42 AM
87	L2430864-07D2 WG1935403	1	60	6/18/2024 11:16:12 AM
88	WG1935403-4D2 WG1935403	2	1	6/18/2024 11:19:42 AM
89	WG1935403-5D2 WG1935403	2	2	6/18/2024 11:23:11 AM
90	WG1935403-6D2 WG1935403	2	3	6/18/2024 11:26:41 AM
91	CCV	0	3	6/18/2024 11:30:10 AM
92	CCB	0	4	6/18/2024 11:33:39 AM
93	WG1935403-7D10 WG1935403	2	4	6/18/2024 11:37:09 AM
94	WG1935354-1 WG1935354	2	9	6/18/2024 11:41:21 AM
95	WG1935354-2 WG1935354	2	10	6/18/2024 11:45:01 AM
96	L2430864-03D4 WG1935403	2	8	6/18/2024 11:48:32 AM
97	L2432710-01 WG1935354	2	11	6/18/2024 11:52:01 AM
98	WG1935354-3 WG1935354	2	12	6/18/2024 11:55:32 AM
99	WG1935354-4 WG1935354	2	13	6/18/2024 11:59:02 AM
100	L2432758-01 WG1935354	2	14	6/18/2024 12:02:32 PM
101	CCV	0	3	6/18/2024 12:06:01 PM
102	CCB	0	4	6/18/2024 12:09:30 PM
103	CCV	0	3	6/18/2024 12:13:00 PM
104	CCB	0	4	6/18/2024 12:16:29 PM

Sequence Trace 9

6/19/2024 6:03:40 AM

LabBook: WG1935555_06182024T9B.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DHL Trace9	0	1	6/18/2024 12:38:02 PM
2	ICAL	0	2	6/18/2024 12:41:46 PM
3	ICV	0	3	6/18/2024 12:45:14 PM
4	ICB	0	4	6/18/2024 12:48:42 PM
5	ICV	0	3	6/18/2024 12:53:15 PM
6	ICB	0	4	6/18/2024 12:56:43 PM
7	LLOQ	0	5	6/18/2024 1:00:11 PM
8	LDR (ICSA)	0	6	6/18/2024 1:03:41 PM
9	xSIC Multi (ICSA Contamination)	0	7	6/18/2024 1:24:07 PM
10	LDR Check	0	8	6/18/2024 1:27:43 PM
11	xSIC Multi (ICSA Contamination)	0	7	6/18/2024 1:51:19 PM
12	LDR 20 As	1	1	6/18/2024 2:04:12 PM
13	LDR 500 Na	1	2	6/18/2024 2:07:46 PM
14	LDR (SIC Multi)	0	7	6/18/2024 2:11:37 PM
15	CCV	0	3	6/18/2024 2:21:32 PM
16	CCB	0	4	6/18/2024 2:25:06 PM
17	WG1935403-4D2 WG1935403	1	3	6/18/2024 2:30:15 PM
18	WG1935403-5D2 WG1935403	1	4	6/18/2024 2:33:43 PM
19	WG1935283-1 WG1935283	1	5	6/18/2024 2:53:47 PM
20	WG1935283-2 WG1935283	1	6	6/18/2024 2:57:22 PM
21	L2432606-01 WG1935283	1	10	6/18/2024 3:00:51 PM
22	L2433113-01 WG1935283	1	7	6/18/2024 3:04:21 PM
23	WG1935283-3 WG1935283	1	8	6/18/2024 3:07:50 PM
24	WG1935283-4 WG1935283	1	9	6/18/2024 3:11:19 PM
25	CCV	0	3	6/18/2024 3:14:49 PM
26	CCB	0	4	6/18/2024 3:18:17 PM
27	WG1935328-1 WG1935328	1	11	6/18/2024 3:25:14 PM
28	WG1935328-2 WG1935328	1	12	6/18/2024 3:28:56 PM
29	L2432707-01 WG1935328	1	18	6/18/2024 3:32:27 PM
30	L2432868-01 WG1935328	1	13	6/18/2024 3:35:55 PM
31	WG1935328-3 WG1935328	1	14	6/18/2024 3:39:22 PM
32	WG1935328-4 WG1935328	1	15	6/18/2024 3:42:50 PM
33	WG1935328-5 WG1935328	1	16	6/18/2024 3:46:17 PM
34	WG1935328-6D5 WG1935328	1	17	6/18/2024 3:49:45 PM
35	CCV	0	3	6/18/2024 3:53:13 PM
36	CCB	0	4	6/18/2024 3:56:42 PM
37	WG1935323-1 WG1935323	1	19	6/18/2024 4:13:47 PM
38	WG1935323-2 WG1935323	1	20	6/18/2024 4:17:28 PM
39	L2433035-01 WG1935323	1	26	6/18/2024 4:20:57 PM
40	L2433035-02 WG1935323	1	27	6/18/2024 4:24:24 PM
41	L2433035-04 WG1935323	1	28	6/18/2024 4:27:52 PM
42	L2433035-03 WG1935323	1	21	6/18/2024 4:31:20 PM
43	WG1935323-3 WG1935323	1	22	6/18/2024 4:34:49 PM
44	WG1935323-4 WG1935323	1	23	6/18/2024 4:38:19 PM
45	WG1935323-5 WG1935323	1	24	6/18/2024 4:41:49 PM
46	WG1935323-6D5 WG1935323	1	25	6/18/2024 4:45:20 PM
47	CCV	0	3	6/18/2024 4:48:47 PM
48	CCB	0	4	6/18/2024 4:52:16 PM
49	L2433035-05 WG1935323	1	29	6/18/2024 4:57:27 PM
50	L2433035-06 WG1935323	1	30	6/18/2024 5:00:55 PM
51	L2433035-07 WG1935323	1	31	6/18/2024 5:04:24 PM
52	L2433035-08 WG1935323	1	32	6/18/2024 5:07:53 PM
53	L2433035-09 WG1935323	1	33	6/18/2024 5:11:23 PM
54	L2433035-10 WG1935323	1	34	6/18/2024 5:14:52 PM
55	L2433064-01D2 WG1935625	1	42	6/18/2024 5:19:55 PM
56	L2433064-02D2 WG1935625	1	43	6/18/2024 5:23:23 PM
57	L2433064-03D2 WG1935625	1	44	6/18/2024 5:26:52 PM
58	L2433064-04D2 WG1935625	1	45	6/18/2024 5:30:21 PM
59	CCV	0	3	6/18/2024 6:06:14 PM
60	CCB	0	4	6/18/2024 6:09:49 PM
61	WG1935625-1 WG1935625	1	35	6/18/2024 6:16:46 PM
62	WG1935625-2D2 WG1935625	1	36	6/18/2024 6:20:22 PM
63	L2433064-05D2 WG1935625	1	46	6/18/2024 6:23:53 PM
64	L2433064-06D2 WG1935625	1	47	6/18/2024 6:27:22 PM
65	L2433099-01D2 WG1935625	1	48	6/18/2024 6:30:53 PM
66	L2433099-08D2 WG1935625	1	37	6/18/2024 6:34:23 PM
67	WG1935625-3D2 WG1935625	1	38	6/18/2024 6:37:50 PM
68	WG1935625-4D2 WG1935625	1	39	6/18/2024 6:41:18 PM

Sequence Trace 9

6/19/2024 6:03:40 AM

Index	Label	Rack	Vial	Started at
69	WG1935625-5D2 WG1935625	1	40	6/18/2024 6:44:46 PM
70	WG1935625-6D10 WG1935625	1	41	6/18/2024 6:48:14 PM
71	CCV	0	3	6/18/2024 6:51:42 PM
72	CCB	0	4	6/18/2024 6:55:11 PM
73	LDR 500 Fe pass	2	1	6/18/2024 7:01:12 PM
74	LDR 1000 Ca pass	2	2	6/18/2024 7:04:44 PM
75	L2433099-02D2 WG1935625	1	49	6/18/2024 7:18:41 PM
76	L2433099-03D2 WG1935625	1	50	6/18/2024 7:22:15 PM
77	L2433099-04D2 WG1935625	1	51	6/18/2024 7:25:44 PM
78	L2433099-05D2 WG1935625	1	52	6/18/2024 7:29:12 PM
79	eL2433099-06D2 WG1935625	1	53	6/18/2024 7:32:41 PM
80	L2433099-07D2 WG1935625	1	54	6/18/2024 7:36:09 PM
81	L2433099-09D2 WG1935625	1	55	6/18/2024 7:39:38 PM
82	L2433099-10D2 WG1935625	1	56	6/18/2024 7:43:07 PM
83	CCV	0	3	6/18/2024 7:46:37 PM
84	CCB	0	4	6/18/2024 7:50:06 PM
85	xWG1935625-1 WG1935625	2	3	6/18/2024 7:58:36 PM
86	eL2433099-02D4 WG1935625	2	4	6/18/2024 8:02:12 PM
87	L2433099-06D5 WG1935625	2	5	6/18/2024 8:05:41 PM
88	L2433099-11D2 WG1935625	1	57	6/18/2024 8:09:10 PM
89	L2433160-04D2 WG1935625	1	58	6/18/2024 8:12:40 PM
90	L2433160-05D2 WG1935625	1	59	6/18/2024 8:16:10 PM
91	L2433160-07D2 WG1935625	1	60	6/18/2024 8:19:41 PM
92	CCV	0	3	6/18/2024 8:23:11 PM
93	CCB	0	4	6/18/2024 8:26:41 PM
94	WG1935663-2d2 WG1935663	2	6	6/18/2024 8:32:48 PM
95	WG1935663-3d2 WG1935663	2	7	6/18/2024 8:36:29 PM
96	CCV	0	3	6/18/2024 8:39:59 PM
97	CCB	0	4	6/18/2024 8:43:30 PM
98	WG1935441-1 WG1935441	2	8	6/18/2024 8:48:36 PM
99	WG1935441-2 WG1935441	2	9	6/18/2024 8:52:15 PM
100	L2433105-01 WG1935441	2	10	6/18/2024 8:58:51 PM
101	WG1935441-3 WG1935441	2	11	6/18/2024 9:02:36 PM
102	WG1935441-4 WG1935441	2	12	6/18/2024 9:06:07 PM
103	WG1935441-5 WG1935441	2	13	6/18/2024 9:09:38 PM
104	WG1935441-6d5 WG1935441	2	14	6/18/2024 9:13:07 PM
105	L2433105-02 WG1935441	2	15	6/18/2024 9:16:37 PM
106	L2433105-03 WG1935441	2	16	6/18/2024 9:20:07 PM
107	L2433105-04 WG1935441	2	17	6/18/2024 9:23:36 PM
108	CCV	0	3	6/18/2024 9:27:06 PM
109	CCB	0	4	6/18/2024 9:30:36 PM
110	L2433105-05 WG1935441	2	18	6/18/2024 9:37:47 PM
111	L2433105-06 WG1935441	2	19	6/18/2024 9:41:23 PM
112	L2433105-07 WG1935441	2	20	6/18/2024 9:44:53 PM
113	L2433105-08 WG1935441	2	21	6/18/2024 9:48:23 PM
114	L2433105-09 WG1935441	2	22	6/18/2024 9:51:53 PM
115	L2433161-01 WG1935441	2	23	6/18/2024 9:55:23 PM
116	L2433161-02 WG1935441	2	24	6/18/2024 9:58:54 PM
117	L2433161-03 WG1935441	2	25	6/18/2024 10:02:25 PM
118	L2433161-04 WG1935441	2	26	6/18/2024 10:05:55 PM
119	L2433161-05 WG1935441	2	27	6/18/2024 10:09:26 PM
120	CCV	0	3	6/18/2024 10:12:56 PM
121	CCB	0	4	6/18/2024 10:16:25 PM
122	L2433161-06 WG1935441	2	28	6/18/2024 10:26:44 PM
123	L2433161-07 WG1935441	2	29	6/18/2024 10:30:20 PM
124	L2433161-08 WG1935441	2	30	6/18/2024 10:33:50 PM
125	CCV	0	3	6/18/2024 10:37:22 PM
126	CCB	0	4	6/18/2024 10:40:53 PM
127	WG1935652-1 WG1935652	2	31	6/18/2024 10:46:13 PM
128	WG1935652-2d2 WG1935652	2	32	6/18/2024 10:49:56 PM
129	L2433008-04d2 WG1935652	2	33	6/18/2024 10:53:26 PM
130	WG1935652-3d2 WG1935652	2	34	6/18/2024 10:56:56 PM
131	WG1935652-4d2 WG1935652	2	35	6/18/2024 11:00:27 PM
132	WG1935652-5d2 WG1935652	2	36	6/18/2024 11:03:58 PM
133	WG1935652-6d10 WG1935652	2	37	6/18/2024 11:07:29 PM
134	L2432919-01d2 WG1935652	2	38	6/18/2024 11:10:59 PM
135	eL2432919-02d2 WG1935652	2	39	6/18/2024 11:14:29 PM
136	eL2432919-03d2 WG1935652	2	40	6/18/2024 11:18:00 PM
137	CCV	0	3	6/18/2024 11:21:30 PM
138	CCB	0	4	6/18/2024 11:25:00 PM
139	L2432919-04d2 WG1935652	2	41	6/18/2024 11:28:30 PM
140	L2432929-01d2 WG1935652	2	42	6/18/2024 11:32:00 PM
141	L2432936-01d2 WG1935652	2	43	6/18/2024 11:35:30 PM
142	L2432936-02d2 WG1935652	2	44	6/18/2024 11:39:00 PM

Sequence Trace 9

6/19/2024 6:03:40 AM

Index	Label	Rack	Vial	Started at
143	eL2432936-03d2 WG1935652	2	45	6/18/2024 11:42:30 PM
144	L2432936-04d2 WG1935652	2	46	6/18/2024 11:46:01 PM
145	L2432936-05d2 WG1935652	2	47	6/18/2024 11:49:31 PM
146	L2432952-21d2 WG1935652	2	48	6/18/2024 11:53:02 PM
147	L2432952-22d2 WG1935652	2	49	6/18/2024 11:56:33 PM
148	L2432952-23d2 WG1935652	2	50	6/19/2024 12:00:04 AM
149	CCV	0	3	6/19/2024 12:03:34 AM
150	CCB	0	4	6/19/2024 12:07:04 AM
151	L2432952-24d2 WG1935652	2	51	6/19/2024 12:10:34 AM
152	L2432990-01d2 WG1935652	2	52	6/19/2024 12:14:05 AM
153	L2432990-02d2 WG1935652	2	53	6/19/2024 12:17:35 AM
154	L2432990-03d2 WG1935652	2	54	6/19/2024 12:21:06 AM
155	L2432990-04d2 WG1935652	2	55	6/19/2024 12:24:37 AM
156	L2433008-05d2 WG1935652	2	56	6/19/2024 12:28:07 AM
157	CCV	0	3	6/19/2024 12:31:38 AM
158	CCB	0	4	6/19/2024 12:35:08 AM
159	CCV	0	3	6/19/2024 12:38:39 AM
160	CCB	0	4	6/19/2024 12:42:08 AM
161	LLOQ	0	5	6/19/2024 12:45:39 AM

Sequence Trace 8

6/18/2024 11:07:12 PM

LabBook: WG1935552_06182024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank JMF Trace8	0	1	6/18/2024 4:36:47 AM
2	ICAL	0	2	6/18/2024 4:40:46 AM
3	ICV	0	3	6/18/2024 4:44:41 AM
4	ICB	0	4	6/18/2024 4:48:38 AM
5	ICV	0	10	6/18/2024 4:52:35 AM
6	ICB	0	4	6/18/2024 4:56:35 AM
7	xLLOQ	0	5	6/18/2024 5:33:25 AM
8	LLOQ	0	5	6/18/2024 5:34:20 AM
9	ICSA	0	6	6/18/2024 5:39:34 AM
10	LLOQ 0.01ppm	1	1	6/18/2024 6:05:59 AM
11	LDR 500 Fe pass	1	2	6/18/2024 6:10:06 AM
12	LDR 1000 Ca pass	1	3	6/18/2024 6:14:01 AM
13	SIC Multi	0	7	6/18/2024 6:28:11 AM
14	LDR 40 Mn pass	1	4	6/18/2024 6:32:15 AM
15	LDR Check	0	8	6/18/2024 6:36:12 AM
16	LDR 500 Na	1	5	6/18/2024 6:40:10 AM
17	IEC 20 Ti +Si -Tl	1	6	6/18/2024 6:44:07 AM
18	IEC 10 V +Tl	1	7	6/18/2024 6:58:34 AM
19	CCV	0	3	6/18/2024 7:16:56 AM
20	CCB	0	4	6/18/2024 7:21:06 AM
21	WG1935256-1 WG1935256	1	8	6/18/2024 7:39:31 AM
22	WG1935256-2D2 WG1935256	1	9	6/18/2024 7:43:42 AM
23	L2432723-01D2 WG1935256	1	29	6/18/2024 7:47:40 AM
24	L2432723-02D2 WG1935256	1	30	6/18/2024 7:51:36 AM
25	L2432723-03D2 WG1935256	1	31	6/18/2024 7:55:31 AM
26	L2432096-25D2 WG1935256	1	10	6/18/2024 7:59:27 AM
27	WG1935256-3D2 WG1935256	1	11	6/18/2024 8:03:25 AM
28	WG1935256-4D2 WG1935256	1	12	6/18/2024 8:07:22 AM
29	WG1935256-5D2 WG1935256	1	13	6/18/2024 8:11:21 AM
30	WG1935256-6D10 WG1935256	1	14	6/18/2024 8:15:15 AM
31	CCV	0	3	6/18/2024 8:19:09 AM
32	CCB	0	4	6/18/2024 8:23:05 AM
33	zWG1935256-1 WG1935256	1	33	6/18/2024 8:29:07 AM
34	Test FM 0305 FAO	1	34	6/18/2024 8:33:17 AM
35	Test FM 0315 FAO	1	35	6/18/2024 8:37:14 AM
36	Test FM 0329 FAO	1	36	6/18/2024 8:41:11 AM
37	L2432723-04D2 WG1935256	1	32	6/18/2024 8:45:09 AM
38	L2432096-26D2 WG1935256	1	15	6/18/2024 8:49:05 AM
39	L2432096-45D2 WG1935256	1	16	6/18/2024 8:53:00 AM
40	L2432096-46D2 WG1935256	1	17	6/18/2024 8:56:55 AM
41	L2432096-47D2 WG1935256	1	18	6/18/2024 9:00:51 AM
42	L2432096-48D2 WG1935256	1	19	6/18/2024 9:04:47 AM
43	CCV	0	3	6/18/2024 9:08:44 AM
44	CCB	0	4	6/18/2024 9:12:40 AM
45	WG1935259-1 WG1935259	1	37	6/18/2024 9:24:26 AM
46	L2432096-49D2 WG1935256	1	20	6/18/2024 9:28:37 AM
47	L2432096-50D2 WG1935256	1	21	6/18/2024 9:33:31 AM
48	L2432096-55D2 WG1935256	1	22	6/18/2024 9:37:36 AM
49	L2432096-56D2 WG1935256	1	23	6/18/2024 9:41:34 AM
50	L2432096-58D2 WG1935256	1	24	6/18/2024 9:45:31 AM
51	L2432096-60D2 WG1935256	1	25	6/18/2024 9:49:29 AM
52	L2432096-61D2 WG1935256	1	26	6/18/2024 9:53:24 AM
53	L2432096-70D2 WG1935256	1	27	6/18/2024 9:57:18 AM
54	L2432096-71D2 WG1935256	1	28	6/18/2024 10:01:14 AM
55	CCV	0	3	6/18/2024 10:05:21 AM
56	CCB	0	4	6/18/2024 10:09:17 AM
57	WG1934555-2 WG1934555	1	60	6/18/2024 10:18:08 AM
58	WG1935259-2D2 WG1935259	1	38	6/18/2024 10:22:23 AM
59	WG1935259-3D2 WG1935259	1	39	6/18/2024 10:26:18 AM
60	L2432584-01D2 WG1935259	1	40	6/18/2024 10:30:13 AM
61	L2432584-02D2 WG1935259	1	41	6/18/2024 10:35:58 AM
62	L2432584-03D2 WG1935259	1	42	6/18/2024 10:39:54 AM
63	L2432584-04D2 WG1935259	1	43	6/18/2024 10:43:55 AM
64	L2432584-05D2 WG1935259	1	44	6/18/2024 10:47:53 AM
65	L2432584-06D2 WG1935259	1	45	6/18/2024 10:51:49 AM
66	0.5 ppm Li STD for MS	2	1	6/18/2024 10:55:46 AM
67	CCV	0	3	6/18/2024 10:59:45 AM
68	CCB	0	4	6/18/2024 11:03:42 AM

Sequence Trace 8

6/18/2024 11:07:12 PM

Index	Label	Rack	Vial	Started at
69	L2432584-07D2 WG1935259	1	46	6/18/2024 11:11:58 AM
70	L2432584-08D2 WG1935259	1	47	6/18/2024 11:16:11 AM
71	L2432584-09D2 WG1935259	1	48	6/18/2024 11:22:54 AM
72	L2432584-10D2 WG1935259	1	49	6/18/2024 11:26:55 AM
73	L2432584-11D2 WG1935259	1	50	6/18/2024 11:30:51 AM
74	L2432584-12D2 WG1935259	1	51	6/18/2024 11:34:48 AM
75	L2432584-13D2 WG1935259	1	52	6/18/2024 11:40:01 AM
76	L2432584-14D2 WG1935259	1	53	6/18/2024 11:43:58 AM
77	L2432584-15D2 WG1935259	1	54	6/18/2024 11:47:55 AM
78	L2432584-16D2 WG1935259	1	55	6/18/2024 11:51:52 AM
79	CCV	0	3	6/18/2024 11:55:49 AM
80	CCB	0	4	6/18/2024 11:59:46 AM
81	WG1935622-1 WG1935622	2	2	6/18/2024 12:16:14 PM
82	WG1935622-2D2 WG1935622	2	3	6/18/2024 12:20:28 PM
83	L2433512-01D2 WG1935622	2	9	6/18/2024 12:24:25 PM
84	L2434010-01D2 WG1935622	2	10	6/18/2024 12:28:23 PM
85	L2434010-02D2 WG1935622	2	11	6/18/2024 12:32:21 PM
86	L2431167-01D2 WG1935622	2	4	6/18/2024 12:36:19 PM
87	WG1935622-3D2 WG1935622	2	5	6/18/2024 12:40:16 PM
88	WG1935622-4D2 WG1935622	2	6	6/18/2024 12:44:13 PM
89	WG1935622-5D2 WG1935622	2	7	6/18/2024 12:48:10 PM
90	WG1935622-6D10 WG1935622	2	8	6/18/2024 12:52:07 PM
91	CCV	0	3	6/18/2024 12:56:04 PM
92	CCB	0	4	6/18/2024 1:00:02 PM
93	L2434070-01D2 WG1935622	2	12	6/18/2024 1:06:39 PM
94	L2434070-02D2 WG1935622	2	13	6/18/2024 1:10:54 PM
95	L2434083-01D2 WG1935622	2	14	6/18/2024 1:14:51 PM
96	L2432584-17D2 WG1935259	1	56	6/18/2024 1:18:49 PM
97	L2432584-18D2 WG1935259	1	57	6/18/2024 1:22:46 PM
98	L2432584-19D2 WG1935259	1	58	6/18/2024 1:26:44 PM
99	L2432584-20D2 WG1935259	1	59	6/18/2024 1:30:43 PM
100	CCV	0	3	6/18/2024 1:34:42 PM
101	CCB	0	4	6/18/2024 1:38:40 PM
102	WG1935332-1 WG1935332	2	15	6/18/2024 1:44:45 PM
103	WG1935332-2 WG1935332	2	16	6/18/2024 1:49:00 PM
104	L2433035-03 WG1935332	2	17	6/18/2024 1:53:03 PM
105	WG1935332-3 WG1935332	2	18	6/18/2024 1:57:00 PM
106	WG1935332-4 WG1935332	2	19	6/18/2024 2:00:58 PM
107	WG1935332-5 WG1935332	2	20	6/18/2024 2:05:02 PM
108	WG1935332-6D5 WG1935332	2	21	6/18/2024 2:09:00 PM
109	Test ICV 0440 MAM	2	27	6/18/2024 2:12:58 PM
110	CCV	0	3	6/18/2024 2:16:55 PM
111	CCB	0	4	6/18/2024 2:20:53 PM
112	L2433035-04 WG1935332	2	22	6/18/2024 2:40:16 PM
113	WG1935332-7 WG1935332	2	23	6/18/2024 2:44:21 PM
114	WG1935332-8 WG1935332	2	24	6/18/2024 2:48:19 PM
115	WG1935332-9 WG1935332	2	25	6/18/2024 2:52:18 PM
116	WG1935332-10D5 WG1935332	2	26	6/18/2024 2:56:22 PM
117	CCV	0	3	6/18/2024 3:00:30 PM
118	CCB	0	4	6/18/2024 3:04:30 PM
119	WG1935415-1 WG1935415	2	28	6/18/2024 3:32:09 PM
120	WG1935415-2 WG1935415	2	29	6/18/2024 3:36:24 PM
121	L2433115-01 WG1935415	2	35	6/18/2024 3:40:22 PM
122	L2433120-01 WG1935415	2	36	6/18/2024 3:44:21 PM
123	L2432812-03d2 WG1935415	2	30	6/18/2024 3:48:21 PM
124	WG1935415-3d2 WG1935415	2	31	6/18/2024 3:52:19 PM
125	WG1935415-4d2 WG1935415	2	32	6/18/2024 3:56:17 PM
126	WG1935415-5d2 WG1935415	2	33	6/18/2024 4:00:15 PM
127	WG1935415-6d10 WG1935415	2	34	6/18/2024 4:04:13 PM
128	CCV	0	3	6/18/2024 4:08:12 PM
129	CCB	0	4	6/18/2024 4:12:10 PM
130	WG1935620-1 WG1935620	2	37	6/18/2024 4:24:42 PM
131	WG1935620-2d2 WG1935620	2	38	6/18/2024 4:29:01 PM
132	L2432914-03d2 WG1935620	2	44	6/18/2024 4:33:01 PM
133	L2432914-05d2 WG1935620	2	45	6/18/2024 4:36:59 PM
134	L2432914-07d2 WG1935620	2	46	6/18/2024 4:40:58 PM
135	L2432914-01d2 WG1935620	2	39	6/18/2024 4:44:57 PM
136	WG1935620-3d2 WG1935620	2	40	6/18/2024 4:48:55 PM
137	WG1935620-4d2 WG1935620	2	41	6/18/2024 4:52:54 PM
138	WG1935620-5d2 WG1935620	2	42	6/18/2024 4:56:52 PM
139	WG1935620-6d10 WG1935620	2	43	6/18/2024 5:00:51 PM
140	CCV	0	3	6/18/2024 5:04:50 PM
141	CCB	0	4	6/18/2024 5:08:48 PM
142	L2432798-01d2 WG1935399	3	4	6/18/2024 5:13:48 PM

Sequence Trace 8

6/18/2024 11:07:12 PM

Index	Label	Rack	Vial	Started at
143	L2432800-01d2 WG1935399	3	5	6/18/2024 5:18:01 PM
144	L2432800-02d2 WG1935399	3	6	6/18/2024 5:22:01 PM
145	L2432800-03d2 WG1935399	3	7	6/18/2024 5:26:01 PM
146	L2432800-04d2 WG1935399	3	8	6/18/2024 5:30:01 PM
147	CCV	0	3	6/18/2024 5:34:00 PM
148	CCB	0	4	6/18/2024 5:37:59 PM
149	L2432914-09d2 WG1935620	2	47	6/18/2024 5:44:07 PM
150	L2432914-11d2 WG1935620	2	48	6/18/2024 5:48:27 PM
151	L2432914-13d2 WG1935620	2	49	6/18/2024 5:52:26 PM
152	L2432914-15d2 WG1935620	2	50	6/18/2024 5:56:26 PM
153	L2433113-01d2 WG1935620	2	51	6/18/2024 6:00:25 PM
154	L2433113-02d2 WG1935620	2	52	6/18/2024 6:04:24 PM
155	L2433113-03d2 WG1935620	2	53	6/18/2024 6:08:23 PM
156	eL2433113-04d2 WG1935620	2	54	6/18/2024 6:12:23 PM
157	L2433113-05d2 WG1935620	2	55	6/18/2024 6:16:22 PM
158	L2433113-06d2 WG1935620	2	56	6/18/2024 6:20:20 PM
159	CCV	0	3	6/18/2024 6:24:20 PM
160	CCB	0	4	6/18/2024 6:28:19 PM
161	CCV	0	3	6/18/2024 6:36:33 PM
162	CCB	0	4	6/18/2024 6:40:38 PM
163	L2433113-07d2 WG1935620	2	57	6/18/2024 6:48:44 PM
164	L2433113-08d2 WG1935620	2	60	6/18/2024 6:53:05 PM
165	L2433113-09d2 WG1935620	3	1	6/18/2024 6:57:05 PM
166	L2433113-10d2 WG1935620	3	2	6/18/2024 7:01:05 PM
167	L2433113-11d2 WG1935620	3	3	6/18/2024 7:05:05 PM
168	L2433113-04d4 WG1935620	3	28	6/18/2024 7:11:28 PM
169	CCV	0	3	6/18/2024 7:15:35 PM
170	CCB	0	4	6/18/2024 7:19:33 PM
171	WG1935632-1 WG1935632	3	11	6/18/2024 7:43:52 PM
172	WG1935632-2d2 WG1935632	3	12	6/18/2024 7:48:14 PM
173	eL2432952-02d2 WG1935632	3	18	6/18/2024 7:52:14 PM
174	L2432952-03d2 WG1935632	3	19	6/18/2024 7:56:15 PM
175	L2432952-04d2 WG1935632	3	20	6/18/2024 8:00:15 PM
176	L2432952-01d2 WG1935632	3	13	6/18/2024 8:04:16 PM
177	WG1935632-3d2 WG1935632	3	14	6/18/2024 8:08:16 PM
178	WG1935632-4d2 WG1935632	3	15	6/18/2024 8:12:17 PM
179	WG1935632-5d2 WG1935632	3	16	6/18/2024 8:16:17 PM
180	WG1935632-6d10 WG1935632	3	17	6/18/2024 8:20:17 PM
181	CCV	0	3	6/18/2024 8:24:18 PM
182	CCB	0	4	6/18/2024 8:28:17 PM
183	L2432952-05d2 WG1935632	3	21	6/18/2024 8:37:57 PM
184	L2432952-06d2 WG1935632	3	22	6/18/2024 8:42:05 PM
185	L2432952-07d2 WG1935632	3	23	6/18/2024 8:46:06 PM
186	L2432952-08d2 WG1935632	3	24	6/18/2024 8:50:06 PM
187	L2432952-09d2 WG1935632	3	25	6/18/2024 8:54:07 PM
188	eL2432952-10d2 WG1935632	3	26	6/18/2024 8:58:08 PM
189	L2432952-11d2 WG1935632	3	27	6/18/2024 9:02:09 PM
190	L2432952-12d2 WG1935632	3	29	6/18/2024 9:06:10 PM
191	L2432952-13d2 WG1935632	3	30	6/18/2024 9:10:12 PM
192	L2432952-14d2 WG1935632	3	31	6/18/2024 9:14:12 PM
193	CCV	0	3	6/18/2024 9:18:13 PM
194	CCB	0	4	6/18/2024 9:22:12 PM
195	L2432952-15d2 WG1935632	3	32	6/18/2024 9:30:03 PM
196	L2432952-16d2 WG1935632	3	33	6/18/2024 9:34:25 PM
197	L2432952-17d2 WG1935632	3	34	6/18/2024 9:38:26 PM
198	L2432952-18d2 WG1935632	3	35	6/18/2024 9:42:28 PM
199	L2432952-19d2 WG1935632	3	36	6/18/2024 9:46:30 PM
200	L2432952-20d2 WG1935632	3	37	6/18/2024 9:50:31 PM
201	L2432952-02d4 WG1935632	3	38	6/18/2024 9:57:21 PM
202	L2432952-10d4 WG1935632	3	39	6/18/2024 10:01:29 PM
203	CCV	0	3	6/18/2024 10:05:30 PM
204	CCB	0	4	6/18/2024 10:09:30 PM
205	L2432997-01d2 WG1935616	3	40	6/18/2024 10:27:05 PM
206	L2432997-02d2 WG1935616	3	41	6/18/2024 10:31:27 PM
207	L2432997-04d2 WG1935616	3	42	6/18/2024 10:35:28 PM
208	L2432997-05d2 WG1935616	3	43	6/18/2024 10:39:29 PM
209	L2433011-01d2 WG1935616	3	44	6/18/2024 10:43:32 PM
210	L2433011-02d2 WG1935616	3	45	6/18/2024 10:47:33 PM
211	L2433011-03d2 WG1935616	3	46	6/18/2024 10:51:34 PM
212	CCV	0	3	6/18/2024 10:55:36 PM
213	CCB	0	4	6/18/2024 10:59:35 PM
214	CCV	0	3	
215	CCB	0	4	
216	LLOQ	0	5	

Sequence Trace 8

6/18/2024 11:07:12 PM

Sequence Trace 8

6/19/2024 4:01:15 PM

LabBook: WG1936236_06192024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	xBlank DHL Trace8	0	1	6/19/2024 5:47:45 AM
2	xICAL	0	2	6/19/2024 5:52:01 AM
3	xICV	0	3	6/19/2024 5:55:56 AM
4	xICB	0	4	6/19/2024 5:59:52 AM
5	xICV	0	3	6/19/2024 6:05:20 AM
6	Blank DHL Trace8	0	1	6/19/2024 6:11:57 AM
7	ICAL	0	2	6/19/2024 6:16:15 AM
8	ICV	0	3	6/19/2024 6:20:10 AM
9	ICB	0	4	6/19/2024 6:24:06 AM
10	LLOQ	0	5	6/19/2024 6:29:25 AM
11	ICSA	0	6	6/19/2024 6:33:25 AM
12	SIC Multi	0	7	6/19/2024 6:56:07 AM
13	LDR Check	0	8	6/19/2024 7:00:12 AM
14	LLOQ 0.01	1	1	6/19/2024 7:26:01 AM
15	LLOQ 0.05	1	2	6/19/2024 7:30:17 AM
16	LDR 20 As	1	3	6/19/2024 7:34:13 AM
17	LDR 20 Si	1	4	6/19/2024 7:38:08 AM
18	LDR 500 Na	1	5	6/19/2024 7:42:05 AM
19	LDR 500 Fe	1	6	6/19/2024 7:46:01 AM
20	LDR 1000 Ca	1	7	6/19/2024 7:49:58 AM
21	CCV	0	3	6/19/2024 8:06:29 AM
22	CCB	0	4	6/19/2024 8:10:31 AM
23	XLLOQ 0.01 Se	1	8	6/19/2024 8:28:28 AM
24	L2431167-02D2 WG1935622	1	9	6/19/2024 8:40:46 AM
25	L2431167-03D2 WG1935622	1	10	6/19/2024 8:44:49 AM
26	L2431167-04D2 WG1935622	1	11	6/19/2024 8:48:47 AM
27	L2432924-01D2 WG1935622	1	12	6/19/2024 8:52:46 AM
28	L2432925-01D2 WG1935622	1	13	6/19/2024 8:56:44 AM
29	L2432925-02D2 WG1935622	1	14	6/19/2024 9:00:39 AM
30	L2432925-03D2 WG1935622	1	15	6/19/2024 9:04:34 AM
31	L2432996-01D2 WG1935622	1	16	6/19/2024 9:08:29 AM
32	L2432996-02D2 WG1935622	1	17	6/19/2024 9:12:24 AM
33	CCV	0	3	6/19/2024 9:16:21 AM
34	CCB	0	4	6/19/2024 9:20:17 AM
35	WG1936048-1 WG1936048	1	21	6/19/2024 9:27:59 AM
36	WG1936048-2D2 WG1936048	1	22	6/19/2024 9:32:10 AM
37	L2432996-03D2 WG1935622	1	18	6/19/2024 9:36:07 AM
38	L2432996-04D2 WG1935622	1	19	6/19/2024 9:40:04 AM
39	L2432996-07D2 WG1935622	1	20	6/19/2024 9:44:00 AM
40	L2434073-04D2 WG1936048	1	23	6/19/2024 9:47:57 AM
41	WG1936048-3D2 WG1936048	1	24	6/19/2024 9:51:55 AM
42	WG1936048-4D2 WG1936048	1	25	6/19/2024 9:55:53 AM
43	WG1936048-5D2 WG1936048	1	26	6/19/2024 9:59:48 AM
44	WG1936048-6D10 WG1936048	1	27	6/19/2024 10:03:44 AM
45	CCV	0	3	6/19/2024 10:07:47 AM
46	CCB	0	4	6/19/2024 10:11:43 AM
47	SIC 50 Ni As-	1	47	6/19/2024 10:23:51 AM
48	L2432886-02D2 WG1936048	1	28	6/19/2024 10:39:48 AM
49	L2432938-01D2 WG1936048	1	29	6/19/2024 10:43:50 AM
50	L2432938-03D2 WG1936048	1	30	6/19/2024 10:47:46 AM
51	L2432974-01D2 WG1936048	1	31	6/19/2024 10:51:42 AM
52	xL2432998-01D2 WG1936048	1	32	6/19/2024 10:55:38 AM
53	xL2432998-02D2 WG1936048	1	33	6/19/2024 10:59:35 AM
54	L2433059-03D2 WG1936048	1	34	6/19/2024 11:03:32 AM
55	L2433059-06D2 WG1936048	1	35	6/19/2024 11:07:29 AM
56	L2433059-07D2 WG1936048	1	36	6/19/2024 11:11:27 AM
57	CCV	0	3	6/19/2024 11:15:26 AM
58	CCB	0	4	6/19/2024 11:19:23 AM
59	L2433061-01D2 WG1936048	1	37	6/19/2024 11:34:57 AM
60	L2433089-01D2 WG1936048	1	38	6/19/2024 11:39:06 AM
61	L2433089-02D2 WG1936048	1	39	6/19/2024 11:43:02 AM
62	L2433126-01D2 WG1936048	1	40	6/19/2024 11:46:58 AM
63	L2433128-02D2 WG1936048	1	41	6/19/2024 11:50:54 AM
64	L2433148-01D2 WG1936048	1	42	6/19/2024 11:54:51 AM
65	L2433148-02D2 WG1936048	1	43	6/19/2024 11:58:48 AM
66	L2433148-03D2 WG1936048	1	44	6/19/2024 12:02:45 PM
67	L2433149-01D2 WG1936048	1	45	6/19/2024 12:06:42 PM
68	L2433162-01D2 WG1936048	1	46	6/19/2024 12:10:39 PM

Sequence Trace 8

6/19/2024 4:01:15 PM

Index	Label	Rack	Vial	Started at
69	CCV	0	3	6/19/2024 12:14:37 PM
70	CCB	0	4	6/19/2024 12:18:34 PM
71	LDR 100 Mn	1	48	6/19/2024 12:31:30 PM
72	xL2432998-01D10 WG1936048	1	49	6/19/2024 12:40:38 PM
73	xL2432998-02D10 WG1936048	1	50	6/19/2024 12:44:49 PM
74	L2432998-01D20 WG1936048	2	4	6/19/2024 12:49:58 PM
75	xL2432998-02D20 WG1936048	2	5	6/19/2024 12:53:56 PM
76	L2434455-01D2 WG1936224	2	1	6/19/2024 12:57:53 PM
77	L2434455-02D2 WG1936224	2	2	6/19/2024 1:01:50 PM
78	L2434455-03D2 WG1936224	2	3	6/19/2024 1:05:48 PM
79	L2432998-02D40 WG1936048	2	6	6/19/2024 1:09:45 PM
80	CCV	0	3	6/19/2024 1:22:53 PM
81	CCB	0	4	6/19/2024 1:26:57 PM
82	WG1936224-1 WG1936224	1	51	6/19/2024 1:32:24 PM
83	WG1936224-2D2 WG1936224	1	52	6/19/2024 1:36:35 PM
84	WG1936224-3D2 WG1936224	1	53	6/19/2024 1:40:31 PM
85	L2433379-01D2 WG1936224	1	54	6/19/2024 1:44:29 PM
86	WG1936224-4D2 WG1936224	1	55	6/19/2024 1:48:26 PM
87	WG1936224-4D2 WG1936224	1	56	6/19/2024 1:52:23 PM
88	WG1936224-5D2 WG1936224	1	57	6/19/2024 1:56:21 PM
89	WG1936224-5D2 WG1936224	1	58	6/19/2024 2:00:19 PM
90	WG1936224-7D2 WG1936224	1	59	6/19/2024 2:04:18 PM
91	WG1936224-6D10 WG1936224	1	60	6/19/2024 2:08:24 PM
92	CCV	0	3	6/19/2024 2:12:23 PM
93	CCB	0	4	6/19/2024 2:16:21 PM
94	L2432838-01 WG1935332	2	7	6/19/2024 2:23:07 PM
95	L2432844-01 WG1935332	2	8	6/19/2024 2:27:24 PM
96	L2432903-03 WG1935332	2	9	6/19/2024 2:31:22 PM
97	L2432883-01 WG1935332	2	10	6/19/2024 2:35:20 PM
98	L2432931-01 WG1935332	2	11	6/19/2024 2:39:19 PM
99	L2432978-03 WG1935332	2	12	6/19/2024 2:43:19 PM
100	L2433035-01 WG1935332	2	13	6/19/2024 2:47:18 PM
101	L2433035-02 WG1935332	2	14	6/19/2024 2:51:17 PM
102	L2433035-05 WG1935332	2	15	6/19/2024 2:55:16 PM
103	L2433035-06 WG1935332	2	16	6/19/2024 2:59:13 PM
104	CCV	0	3	6/19/2024 3:03:11 PM
105	CCB	0	4	6/19/2024 3:07:09 PM
106	WG1936224-1 WG1936224	2	24	6/19/2024 3:13:47 PM
107	L2433035-07 WG1935332	2	17	6/19/2024 3:20:47 PM
108	L2433035-08 WG1935332	2	18	6/19/2024 3:24:52 PM
109	L2433035-09 WG1935332	2	19	6/19/2024 3:28:51 PM
110	L2433035-10 WG1935332	2	20	6/19/2024 3:32:49 PM
111	L2433067-02 WG1935332	2	21	6/19/2024 3:36:47 PM
112	L2433067-04 WG1935332	2	22	6/19/2024 3:40:46 PM
113	L2433137-02D2 WG1935332	2	23	6/19/2024 3:44:45 PM
114	CCV	0	3	6/19/2024 3:48:44 PM
115	CCB	0	4	6/19/2024 3:52:42 PM
116	WG1935872-1 WG1935872	2	25	
117	WG1935872-2 WG1935872	2	26	
118	L2432990-01 WG1935872	2	27	
119	WG1935872-3 WG1935872	2	28	
120	WG1935872-4 WG1935872	2	29	
121	L2432990-02 WG1935872	2	30	
122	L2432990-03 WG1935872	2	31	
123	L2432990-04 WG1935872	2	32	
124	L2433097-02 WG1935872	2	33	
125	L2433097-03 WG1935872	2	34	
126	L2433097-04 WG1935872	2	35	
127	L2433097-05 WG1935872	2	36	
128	L2433097-06 WG1935872	2	37	
129	WG1935869-1 WG1935869	2	38	
130	WG1935869-2 WG1935869	2	39	
131	L2433097-01 WG1935869	2	40	
132	WG1935869-3 WG1935869	2	41	
133	WG1935869-4 WG1935869	2	42	
134	L2433097-07 WG1935869	2	43	
135	<Identifier>	2	44	
136	<Identifier>	2	45	
137	<Identifier>	2	46	
138	<Identifier>	2	47	
139	<Identifier>	2	48	
140	<Identifier>	2	49	
141	<Identifier>	2	50	
142	<Identifier>	2	51	

Sequence Trace 8

6/19/2024 4:01:15 PM

Index	Label	Rack	Vial	Started at
143	<Identifier>	2	52	
144	<Identifier>	2	53	
145	<Identifier>	2	54	
146	<Identifier>	2	55	
147	<Identifier>	2	56	
148	<Identifier>	2	57	
149	<Identifier>	2	58	
150	<Identifier>	2	59	
151	<Identifier>	2	60	
152	CCV	0	3	
153	CCB	0	4	
154	CCV	0	3	
155	CCB	0	4	
156	CCV	0	3	
157	CCB	0	4	
158	CCV	0	3	
159	CCB	0	4	
160	CCV	0	3	
161	CCB	0	4	
162	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1935323

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324230 71600EFM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2433035-01 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-02 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-03 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-04 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-05 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-06 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-07 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-08 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-09 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
L2433035-10 SAMP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-1 BLANK	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	FM2424130641 ADG
WG1935323-2 LCS	06/17/24 15:11	Maisie Mcqueen	NA	50	<2	0.5	06/17/24 15:11	10	95.1	06/17/24 18:11	50	ELN: CLH
WG1935323-3 MS	06/17/24 15:11	Maisie Mcqueen	NA	50	<2	0.5	06/17/24 15:11	10	95.1	06/17/24 18:11	50	ALL Q CONTAINERS

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METALS ELN REPORT

Workgroup: WG1935323

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1935323-4 MSD	06/17/24 15:11	Maisie Mcqueen	NA	50	<2	0.5	06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-5 PS	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-6 SERDIL	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-7 MS	06/17/24 15:11	Maisie Mcqueen	NA	50	<2	0.5	06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-8 DUP	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-9 PS	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	
WG1935323-10 SERDIL	06/17/24 15:11	Maisie Mcqueen	NA	50	<2		06/17/24 15:11	10	95.1	06/17/24 18:11	50	IPS2418041124HCR

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

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METALS ELN REPORT

Workgroup: WG1935332

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO324230 71600EFM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METSPIKE2	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432783-01 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432838-01 WATER	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432844-01 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432883-01 WATER	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432903-03 WATER	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432931-01 WATER	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2432978-03 WATER	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-01 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-02 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-03 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-04 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-05 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-06 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-07 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	

METALS ELN REPORT

Workgroup: WG1935332

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2433035-08 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-09 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433035-10 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433067-02 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433067-04 SAMP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
L2433137-02 SAMP	06/17/24 14:33	Maisie Mcqueen	25	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	2x diluiton due to matrix and high pH
WG1935332-1 BLANK	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	FM2424130641 ADG
WG1935332-2 LCS	06/17/24 14:33	Maisie Mcqueen	50	<2	0.5	06/17/24 14:33	9	95.0	06/17/24 17:33	50	ELN:cme
WG1935332-3 MS	06/17/24 14:33	Maisie Mcqueen	50	<2	0.5	06/17/24 14:33	9	95.0	06/17/24 17:33	50	ELN: clh
WG1935332-4 MSD	06/17/24 14:33	Maisie Mcqueen	50	<2	0.5	06/17/24 14:33	9	95.0	06/17/24 17:33	50	
WG1935332-5 PS	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
WG1935332-6 SERDIL	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
WG1935332-7 MS	06/17/24 14:33	Maisie Mcqueen	50	<2	0.5	06/17/24 14:33	9	95.0	06/17/24 17:33	50	
WG1935332-8 DUP	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	

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METALS ELN REPORT

Workgroup: WG1935332

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1935332-9 PS	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	
WG1935332-10 SERDIL	06/17/24 14:33	Maisie Mcqueen	50	<2		06/17/24 14:33	9	95.0	06/17/24 17:33	50	IPS2418041124HCR

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 19-JUN-24 05:23 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 22:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 22:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 21:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 22:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 22:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 23:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00059	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 23:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 23:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 23:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 23:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935338-1	**Date Collected**	: NA
Client ID	: WG1935338-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 21:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935338-6	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1DUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 22:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1935701.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 08:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 09:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935325-1	**Date Collected**	: NA
Client ID	: WG1935325-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 08:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1936270.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 06/17/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1842390-1			R1842390-3			R1842390-5		R1842390-7	
Date Analyzed	:	06/18/24 07:52			06/18/24 09:34			06/18/24 10:57		06/18/24 11:37	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0030	99	0.0050	0.00470	94	0.00480	97	0.00470	93

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842390-9			R1842390-11		R1842390-13	
Date Analyzed :				06/18/24 12:18			06/18/24 13:04		06/18/24 14:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00470**	**93**	**0.00470**	**93**	**0.00470**	**93**

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842390-15			R1842390-17		R1842390-19	
Date Analyzed :				06/18/24 16:12			06/18/24 18:35		06/18/24 19:03	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00460**	**92**	**0.00470**	**94**	**0.00470**	**95**

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842390-21			R1842390-23		R1842390-25	
Date Analyzed :				06/18/24 20:58			06/18/24 21:53		06/18/24 22:35	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	96	0.00450	91	0.00470	94

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1842390-27						
Date Analyzed :				06/18/24 23:55						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00460	93				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1842892-1			R1842892-3			R1842892-5			
Date Analyzed :	06/19/24 07:12			06/19/24 08:36			06/19/24 10:11			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	101	0.0050	0.00520	103	0.00510	102		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1842390-2		R1842390-4		R1842390-6		R1842390-8		WG1935338-1	
Date Analyzed :	06/18/24 07:56		06/18/24 09:37		06/18/24 11:00		06/18/24 11:41		06/18/24 21:43	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.000135	J	0.000121	J	0.000120	J	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842390-10		R1842390-12		R1842390-14			
Date Analyzed :			06/18/24 12:21		06/18/24 13:07		06/18/24 14:24			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.000115	J	0.000106	J	0.000111	J		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842390-16		R1842390-18		R1842390-20			
Date Analyzed :			06/18/24 16:15		06/18/24 18:39		06/18/24 19:06			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.000112	J	0.000105	J	0.000109	J		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1842390-22		R1842390-24		R1842390-26			
Date Analyzed :			06/18/24 21:02		06/18/24 21:56		06/18/24 22:39			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.000127	J	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:		R1842390-28							
Date Analyzed	:		06/18/24 23:59							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank	Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :	R1842892-2	R1842892-4		R1842892-6		WG1935325-1	
Date Analyzed :	06/19/24 07:15	06/19/24 08:40		06/19/24 10:14		06/19/24 08:06	
Parameter	mg/l Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910 U	0.0000910	U	0.0000910	U			0.00009	U

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935338-3	**MS Analysis Date**	: 06/18/24 22:02
Matrix Spike Dup	: WG1935338-4	**MSD Analysis Date**	: 06/18/24 22:06

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00423**	**85**	**0.005**	**0.00425**	**85**	**0**	**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2433035-05		
Matrix Spike	: WG1935338-5	**MS Analysis Date**	: 06/18/24 22:12
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00446	89					70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935325-3	**MS Analysis Date**	: 06/19/24 08:16
Matrix Spike Dup	: WG1935325-4	**MSD Analysis Date**	: 06/19/24 08:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00512	102	0.005	0.00495	99	3	75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MP-1	**Matrix**	: WATER
Lab Sample ID	: L2433035-05	**Analysis Date**	: 06/18/24 22:09
Dup Sample ID	: WG1935338-6	**DUP Analysis Date**	: 06/18/24 22:15

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935338-2	**LCS Analysis Date**	: 06/18/24 21:46
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Total	0.00100	0.000880	89.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935325-2	**LCS Analysis Date**	: 06/19/24 08:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.000900**	**90.**					**85-115**	**20**

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-01	06/17/24 17:36	-	25
L2433035-02	06/17/24 17:36	-	25
L2433035-03	06/17/24 17:36	-	25
L2433035-04	06/17/24 17:36	-	25
L2433035-05	06/17/24 17:36	-	25
L2433035-06	06/17/24 17:36	-	25
L2433035-07	06/17/24 17:36	-	25
L2433035-08	06/17/24 17:36	-	25
L2433035-09	06/17/24 17:36	-	25
L2433035-10	06/17/24 17:36	-	25
WG1935338-1	06/17/24 17:36	-	25
WG1935338-2	06/17/24 17:36	-	25
WG1935338-3	06/17/24 17:36	-	25
WG1935338-4	06/17/24 17:36	-	25
WG1935338-5	06/17/24 17:36	-	25
WG1935338-6	06/17/24 17:36	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2433035-01	06/17/24 17:36	-	25
L2433035-02	06/17/24 17:36	-	25
L2433035-03	06/17/24 17:36	-	25
L2433035-04	06/17/24 17:36	-	25
L2433035-05	06/17/24 17:36	-	25
L2433035-06	06/17/24 17:36	-	25
L2433035-07	06/17/24 17:36	-	25
L2433035-08	06/17/24 17:36	-	25
L2433035-09	06/17/24 17:36	-	25
L2433035-10	06/17/24 17:36	-	25
WG1935325-1	06/17/24 17:36	-	25
WG1935325-2	06/17/24 17:36	-	25
WG1935325-3	06/17/24 17:36	-	25
WG1935325-4	06/17/24 17:36	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 06/18/24 07:52	**End Date**	: 06/18/24 23:59

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1842390-1 ICV	1	07:52:49	X
R1842390-2 ICB	1	07:56:07	X
R1842390-3 CCV	1	09:34:02	X
R1842390-4 CCB	1	09:37:21	X
R1842390-5 CCV	1	10:57:01	X
R1842390-6 CCB	1	11:00:20	X
R1842390-7 CCV	1	11:37:53	X
R1842390-8 CCB	1	11:41:11	X
R1842390-9 CCV	1	12:18:15	X
R1842390-10 CCB	1	12:21:33	X
R1842390-11 CCV	1	13:04:29	X
R1842390-12 CCB	1	13:07:46	X
R1842390-13 CCV	1	14:21:41	X
R1842390-14 CCB	1	14:24:58	X
R1842390-15 CCV	1	16:12:11	X
R1842390-16 CCB	1	16:15:29	X
R1842390-17 CCV	1	18:35:53	X
R1842390-18 CCB	1	18:39:12	X
R1842390-19 CCV	1	19:03:21	X
R1842390-20 CCB	1	19:06:40	X
R1842390-21 CCV	1	20:58:53	X
R1842390-22 CCB	1	21:02:12	X
WG1935338-1 BLANK	1	21:43:26	X
WG1935338-2 LCS	1	21:46:44	X
L2433035-03	1	21:50:02	X
R1842390-23 CCV	1	21:53:21	X
R1842390-24 CCB	1	21:56:39	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 06/18/24 07:52	**End Date**	: 06/18/24 23:59

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
WG1935338-3 MS	1	22:02:44	X
WG1935338-4 MSD	1	22:06:03	X
L2433035-05	1	22:09:21	X
WG1935338-5 MS	1	22:12:40	X
WG1935338-6 DUP	1	22:15:58	X
L2433035-01	1	22:25:53	X
L2433035-02	1	22:29:12	X
L2433035-04	1	22:32:31	X
R1842390-25 CCV	1	22:35:49	X
R1842390-26 CCB	1	22:39:08	X
L2433035-06	1	23:03:09	X
L2433035-07	1	23:06:26	X
L2433035-08	1	23:09:44	X
L2433035-09	1	23:13:02	X
L2433035-10	1	23:16:20	X
R1842390-27 CCV	1	23:55:52	X
R1842390-28 CCB	1	23:59:10	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 06/19/24 07:12	**End Date**	: 06/19/24 10:14

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1842892-1 ICV	1	07:12:09	X
R1842892-2 ICB	1	07:15:28	X
WG1935325-1 BLANK	1	08:06:46	X
WG1935325-2 LCS	1	08:10:05	X
L2433035-03	1	08:13:25	X
WG1935325-3 MS	1	08:16:45	X
WG1935325-4 MSD	1	08:20:05	X
L2433035-01	1	08:23:25	X
L2433035-02	1	08:26:44	X
L2433035-04	1	08:30:03	X
L2433035-05	1	08:33:23	X
R1842892-3 CCV	1	08:36:42	X
R1842892-4 CCB	1	08:40:01	X
L2433035-06	1	08:48:47	X
L2433035-07	1	08:52:05	X
L2433035-08	1	08:55:23	X
L2433035-09	1	08:58:41	X
L2433035-10	1	09:01:59	X
R1842892-5 CCV	1	10:11:21	X
R1842892-6 CCB	1	10:14:40	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 06/18/2024
Name :

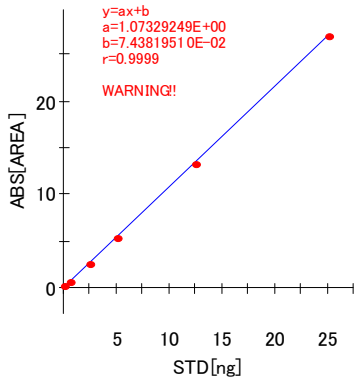
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1941	0.1115	-	06/18/2024 07:32	JWN,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.6922	0.5756	15.1	06/18/2024 07:35	JWN,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.7202	2.4651	1.4	06/18/2024 07:38	JWN,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.3870	4.9498	1.0	06/18/2024 07:42	JWN,NIC3
5	5.000	2.500	2.500	2.500	12.500	13.2455	12.2717	1.8	06/18/2024 07:45	JWN,NIC3
6	10.000	2.500	2.500	2.500	25.000	27.0421	25.1262	0.5	06/18/2024 07:48	JWN,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.0587	7.4391	2.976	-	06/18/2024 07:52	JWN,NIC3
2	ICB	2.500	2.500	2.500	0.2024	0.1193	0.048	-	06/18/2024 07:56	JWN,NIC3
3	0.2PPB	2.500	2.500	2.500	0.6989	0.5819	0.233	-	06/18/2024 08:01	JWN,NIC3
4	I2430662-12 WG1934434	2.500	2.500	2.500	1.1845	1.0343	0.414	-	06/18/2024 08:42	JWN,NIC3
5	I2432540-01 WG1934503	2.500	2.500	2.500	0.2321	0.1469	0.059	-	06/18/2024 08:57	JWN,NIC3
6	I2432603-02 WG1934503	2.500	2.500	2.500	0.3592	0.2654	0.106	-	06/18/2024 09:00	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	I2432616-07 WG1934503	2.500	2.500	2.500	0.2263	0.1415	0.057	-	06/18/2024 09:03	JWN,NIC3
8	I2432633-03 WG1934503	2.500	2.500	2.500	0.1830	0.1012	0.040	-	06/18/2024 09:07	JWN,NIC3
9	I2432633-04 WG1934503	2.500	2.500	2.500	0.2131	0.1292	0.052	-	06/18/2024 09:10	JWN,NIC3
10	I2432748-01 WG1934503	2.500	2.500	2.500	0.2536	0.1670	0.067	-	06/18/2024 09:13	JWN,NIC3
11	I2432753-01 WG1934503	2.500	2.500	2.500	0.8165	0.6914	0.277	-	06/18/2024 09:17	JWN,NIC3
12	I2432755-01 WG1934503	2.500	2.500	2.500	0.5338	0.4280	0.171	-	06/18/2024 09:20	JWN,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	12.6404	11.7079	4.683	93.7	06/18/2024 09:34	JWN,NIC3
14	Check Blank	2.500	2.500	2.500	0.4372	0.3380	0.135	-	06/18/2024 09:37	JWN,NIC3
15	I2432780-01 WG1934503	2.500	2.500	2.500	0.2750	0.1869	0.075	-	06/18/2024 09:41	JWN,NIC3
16	WG1934552-1 WG1934552	2.500	2.500	2.500	0.0394	-0.0326	-0.013	-	06/18/2024 10:07	JWN,NIC3
17	WG1934552-2 WG1934552	2.500	2.500	2.500	2.3738	2.1424	0.857	-	06/18/2024 10:11	JWN,NIC3
18	I2432657-01 WG1934552	2.500	2.500	2.500	0.0474	-0.0251	-0.010	-	06/18/2024 10:14	JWN,NIC3
19	WG1934552-3 WG1934552	2.500	2.500	2.500	11.7632	10.8906	4.356	-	06/18/2024 10:17	JWN,NIC3
20	WG1934552-4 WG1934552	2.500	2.500	2.500	0.0428	-0.0294	-0.012	-	06/18/2024 10:21	JWN,NIC3
21	I2432563-03 WG1934552	2.500	2.500	2.500	0.0428	-0.0294	-0.012	-	06/18/2024 10:24	JWN,NIC3
22	I2432580-01 WG1934552	2.500	2.500	2.500	0.0435	-0.0288	-0.012	-	06/18/2024 10:27	JWN,NIC3
23	I2432580-03 WG1934552	2.500	2.500	2.500	0.0462	-0.0263	-0.011	-	06/18/2024 10:31	JWN,NIC3
24	I2432657-02 WG1934552	2.500	2.500	2.500	0.0619	-0.0116	-0.005	-	06/18/2024 10:34	JWN,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	13.0764	12.1141	4.846	96.9	06/18/2024 10:57	JWN,NIC3
26	Check Blank	2.500	2.500	2.500	0.3986	0.3021	0.121	-	06/18/2024 11:00	JWN,NIC3
27	I2432657-03 WG1934552	2.500	2.500	2.500	0.0435	-0.0288	-0.012	-	06/18/2024 11:04	JWN,NIC3
28	I2432676-01 WG1934552	2.500	2.500	2.500	0.0401	-0.0319	-0.013	-	06/18/2024 11:08	JWN,NIC3
29	I2432694-04 WG1934552	2.500	2.500	2.500	0.0486	-0.0240	-0.010	-	06/18/2024 11:11	JWN,NIC3
30	I2432762-01 WG1934552	2.500	2.500	2.500	0.0406	-0.0315	-0.013	-	06/18/2024 11:14	JWN,NIC3
31	I2432762-02 WG1934552	2.500	2.500	2.500	0.0396	-0.0324	-0.013	-	06/18/2024 11:18	JWN,NIC3
32	I2432762-03 WG1934552	2.500	2.500	2.500	0.0425	-0.0297	-0.012	-	06/18/2024 11:21	JWN,NIC3
33	I2432762-04 WG1934552	2.500	2.500	2.500	0.0407	-0.0314	-0.013	-	06/18/2024 11:24	JWN,NIC3
34	I2432762-05 WG1934552	2.500	2.500	2.500	0.0470	-0.0255	-0.010	-	06/18/2024 11:27	JWN,NIC3
35	I2432786-01 WG1934552	2.500	2.500	2.500	0.0412	-0.0309	-0.012	-	06/18/2024 11:31	JWN,NIC3
36	I2432786-02 WG1934552	2.500	2.500	2.500	0.0403	-0.0318	-0.013	-	06/18/2024 11:34	JWN,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.5594	11.6324	4.653	93.1	06/18/2024 11:37	JWN,NIC3
38	Check Blank	2.500	2.500	2.500	0.3966	0.3002	0.120	-	06/18/2024 11:41	JWN,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2432786-03 WG1934552	2.500	2.500	2.500	0.0378	-0.0341	-0.014	-	06/18/2024 11:45	JWN,NIC3
40	I2432786-04 WG1934552	2.500	2.500	2.500	0.0454	-0.0270	-0.011	-	06/18/2024 11:48	JWN,NIC3
41	WG1935445-1 WG1935445	2.500	2.500	2.500	0.0921	0.0165	0.007	-	06/18/2024 11:51	JWN,NIC3
42	WG1935445-2 WG1935445	2.500	2.500	2.500	2.2699	2.0456	0.818	-	06/18/2024 11:55	JWN,NIC3
43	I2433247-02 WG1935445	2.500	2.500	2.500	0.1073	0.0307	0.012	-	06/18/2024 11:58	JWN,NIC3
44	WG1935445-3 WG1935445	2.500	2.500	2.500	11.4923	10.6382	4.255	-	06/18/2024 12:01	JWN,NIC3
45	WG1935445-4 WG1935445	2.500	2.500	2.500	0.1071	0.0305	0.012	-	06/18/2024 12:05	JWN,NIC3
46	I2432252-01 WG1935445	2.500	2.500	2.500	0.0961	0.0202	0.008	-	06/18/2024 12:08	JWN,NIC3
47	I2432811-01 WG1935445	2.500	2.500	2.500	0.8605	0.7324	0.293	-	06/18/2024 12:11	JWN,NIC3
48	I2433190-02 WG1935445	2.500	2.500	2.500	0.3598	0.2659	0.106	-	06/18/2024 12:14	JWN,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	12.5575	11.6307	4.652	93.0	06/18/2024 12:18	JWN,NIC3
50	Check Blank	2.500	2.500	2.500	0.3840	0.2885	0.115	-	06/18/2024 12:21	JWN,NIC3
51	WG1935695-1 WG1935695	2.500	2.500	2.500	0.4841	0.3817	0.153	-	06/18/2024 12:31	JWN,NIC3
52	WG1935695-2 WG1935695	2.500	2.500	2.500	2.7677	2.5094	1.004	-	06/18/2024 12:34	JWN,NIC3
53	I2432299-03 WG1935695	2.500	2.500	2.500	1.2610	1.1056	0.442	-	06/18/2024 12:38	JWN,NIC3
54	WG1935695-3 WG1935695	2.500	2.500	2.500	13.2618	12.2869	4.915	-	06/18/2024 12:41	JWN,NIC3
55	WG1935695-4 WG1935695	2.500	2.500	2.500	0.8586	0.7307	0.292	-	06/18/2024 12:44	JWN,NIC3
56	I2432299-01 WG1935695	2.500	2.500	2.500	0.4541	0.3538	0.142	-	06/18/2024 12:48	JWN,NIC3
57	I2432299-02 WG1935695	2.500	2.500	2.500	0.5022	0.3986	0.159	-	06/18/2024 12:51	JWN,NIC3
58	I2432299-04 WG1935695	2.500	2.500	2.500	0.9057	0.7745	0.310	-	06/18/2024 12:54	JWN,NIC3
59	I2432299-05 WG1935695	2.500	2.500	2.500	1.5345	1.3604	0.544	-	06/18/2024 12:57	JWN,NIC3
60	I2432299-06 WG1935695	2.500	2.500	2.500	2.1044	1.8914	0.757	-	06/18/2024 13:01	JWN,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	12.6084	11.6781	4.671	93.4	06/18/2024 13:04	JWN,NIC3
62	Check Blank	2.500	2.500	2.500	0.3598	0.2659	0.106	-	06/18/2024 13:07	JWN,NIC3
63	WG1935794-1 WG1935794	2.500	2.500	2.500	0.1228	0.0451	0.018	-	06/18/2024 13:41	JWN,NIC3
64	WG1935794-2 WG1935794	2.500	2.500	2.500	2.4258	2.1908	0.876	-	06/18/2024 13:44	JWN,NIC3
65	I2430834-01 WG1935794	2.500	2.500	2.500	0.1228	0.0451	0.018	-	06/18/2024 13:47	JWN,NIC3
66	WG1935794-3 WG1935794	2.500	2.500	2.500	12.4276	11.5096	4.604	-	06/18/2024 13:51	JWN,NIC3
67	WG1935794-4 WG1935794	2.500	2.500	2.500	0.1396	0.0608	0.024	-	06/18/2024 13:54	JWN,NIC3
68	I2430662-12 WG1935794	2.500	2.500	2.500	0.1323	0.0540	0.022	-	06/18/2024 13:57	JWN,NIC3
69	I2430834-02 WG1935794	2.500	2.500	2.500	0.1368	0.0582	0.023	-	06/18/2024 14:01	JWN,NIC3
70	I2430834-03 WG1935794	2.500	2.500	2.500	0.1608	0.0805	0.032	-	06/18/2024 14:04	JWN,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	HG2425172234MGMV1	2.500	2.500	2.500	2.7962	2.5360	1.014	-	06/18/2024 14:15	JWN,NIC3
72	HG2425172234MGMV2	2.500	2.500	2.500	2.7804	2.5212	1.008	-	06/18/2024 14:18	JWN,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	12.5774	11.6492	4.660	93.2	06/18/2024 14:21	JWN,NIC3
74	Check Blank	2.500	2.500	2.500	0.3732	0.2784	0.111	-	06/18/2024 14:24	JWN,NIC3
75	wg1935278-1 wg1935278	2.500	2.500	2.500	0.0375	-0.0344	-0.014	-	06/18/2024 14:47	JWN,NIC3
76	wg1935278-2 wg1935278	2.500	2.500	2.500	2.4243	2.1894	0.876	-	06/18/2024 14:51	JWN,NIC3
77	I2433121-01 wg1935278	2.500	2.500	2.500	0.1349	0.0564	0.023	-	06/18/2024 14:54	JWN,NIC3
78	wg1935278-3 wg1935278	2.500	2.500	2.500	11.7709	10.8978	4.359	-	06/18/2024 14:57	JWN,NIC3
79	wg1935278-4 wg1935278	2.500	2.500	2.500	0.1515	0.0719	0.029	-	06/18/2024 15:01	JWN,NIC3
80	I2433121-02 wg1935278	2.500	2.500	2.500	5.8959	5.4240	2.170	-	06/18/2024 15:04	JWN,NIC3
81	I2433121-03 wg1935278	2.500	2.500	2.500	0.3022	0.2123	0.085	-	06/18/2024 15:07	JWN,NIC3
82	Check STD(5ug/L)	2.500	2.500	2.500	12.3883	11.4730	4.589	91.8	06/18/2024 16:12	DJR,NIC3
83	Check Blank	2.500	2.500	2.500	0.3761	0.2811	0.112	-	06/18/2024 16:15	DJR,NIC3
84	Check STD(5ug/L)	2.500	2.500	2.500	12.7030	11.7662	4.706	94.1	06/18/2024 18:35	DJR,NIC3
85	Check Blank	2.500	2.500	2.500	0.3568	0.2631	0.105	-	06/18/2024 18:39	DJR,NIC3
86	Q2 LDR NIC 3 AQ 25 PPB	2.500	2.500	2.500	69.1211	64.3317	25.733	-	06/18/2024 18:57	DJR,NIC3
87	Check STD(5ug/L)	2.500	2.500	2.500	12.7694	11.8281	4.731	94.6	06/18/2024 19:03	DJR,NIC3
88	Check Blank	2.500	2.500	2.500	0.3679	0.2735	0.109	-	06/18/2024 19:06	DJR,NIC3
89	WG1935356-1 WG1935356	2.500	2.500	2.500	0.0692	-0.0048	-0.002	-	06/18/2024 20:31	DJR,NIC3
90	WG1935356-2 WG1935356	2.500	2.500	2.500	2.4455	2.2092	0.884	-	06/18/2024 20:34	DJR,NIC3
91	I2433060-01 WG1935356	2.500	2.500	2.500	0.0676	-0.0063	-0.003	-	06/18/2024 20:37	DJR,NIC3
92	WG1935356-3 WG1935356	2.500	2.500	2.500	11.7760	10.9025	4.361	-	06/18/2024 20:41	DJR,NIC3
93	WG1935356-4 WG1935356	2.500	2.500	2.500	0.0639	-0.0098	-0.004	-	06/18/2024 20:44	DJR,NIC3
94	xCheck STD(5ug/L)	2.500	2.500	2.500	10.9187	10.1038	4.042	-	06/18/2024 20:47	DJR,NIC3
95	xCheck Blank	2.500	2.500	2.500	0.3697	0.2752	0.110	-	06/18/2024 20:50	DJR,NIC3
96	Check STD(5ug/L)	2.500	2.500	2.500	12.9173	11.9659	4.786	95.7	06/18/2024 20:58	DJR,NIC3
97	Check Blank	2.500	2.500	2.500	0.1911	0.1087	0.043	-	06/18/2024 21:02	DJR,NIC3
98	I2433046-01 WG1935356	2.500	2.500	2.500	0.0650	-0.0087	-0.003	-	06/18/2024 21:05	DJR,NIC3
99	I2433047-01 WG1935356	2.500	2.500	2.500	0.0604	-0.0130	-0.005	-	06/18/2024 21:08	DJR,NIC3
100	I2433065-01 WG1935356	2.500	2.500	2.500	0.0671	-0.0068	-0.003	-	06/18/2024 21:12	DJR,NIC3
101	I2432710-01 WG1935356	2.500	2.500	2.500	0.0724	-0.0018	-0.001	-	06/18/2024 21:15	DJR,NIC3
102	I2432758-01 WG1935356	2.500	2.500	2.500	0.0633	-0.0103	-0.004	-	06/18/2024 21:18	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	WG1935338-1 WG1935338	2.500	2.500	2.500	0.0754	0.0009	0.000	-	06/18/2024 21:43	DJR,NIC3
104	WG1935338-2 WG1935338	2.500	2.500	2.500	2.4541	2.2172	0.887	-	06/18/2024 21:46	DJR,NIC3
105	I2433035-03 WG1935338	2.500	2.500	2.500	0.1067	0.0301	0.012	-	06/18/2024 21:50	DJR,NIC3
106	Check STD(5ug/L)	2.500	2.500	2.500	12.2515	11.3456	4.538	90.8	06/18/2024 21:53	DJR,NIC3
107	Check Blank	2.500	2.500	2.500	0.4149	0.3173	0.127	-	06/18/2024 21:56	DJR,NIC3
108	WG1935338-3 WG1935338	2.500	2.500	2.500	11.4290	10.5792	4.232	-	06/18/2024 22:02	DJR,NIC3
109	WG1935338-4 WG1935338	2.500	2.500	2.500	11.4848	10.6312	4.252	-	06/18/2024 22:06	DJR,NIC3
110	I2433035-05 WG1935338	2.500	2.500	2.500	0.1099	0.0331	0.013	-	06/18/2024 22:09	DJR,NIC3
111	WG1935338-5 WG1935338	2.500	2.500	2.500	12.0553	11.1628	4.465	-	06/18/2024 22:12	DJR,NIC3
112	WG1935338-6 WG1935338	2.500	2.500	2.500	0.0790	0.0043	0.002	-	06/18/2024 22:15	DJR,NIC3
113	I2432783-01 WG1935338	2.500	2.500	2.500	0.1585	0.0784	0.031	-	06/18/2024 22:19	DJR,NIC3
114	I2432978-03 WG1935338	2.500	2.500	2.500	0.2942	0.2048	0.082	-	06/18/2024 22:22	DJR,NIC3
115	I2433035-01 WG1935338	2.500	2.500	2.500	0.0891	0.0137	0.005	-	06/18/2024 22:25	DJR,NIC3
116	I2433035-02 WG1935338	2.500	2.500	2.500	0.0944	0.0187	0.007	-	06/18/2024 22:29	DJR,NIC3
117	I2433035-04 WG1935338	2.500	2.500	2.500	0.0614	-0.0121	-0.005	-	06/18/2024 22:32	DJR,NIC3
118	Check STD(5ug/L)	2.500	2.500	2.500	12.6255	11.6940	4.678	93.6	06/18/2024 22:35	DJR,NIC3
119	Check Blank	2.500	2.500	2.500	0.1911	0.1087	0.043	-	06/18/2024 22:39	DJR,NIC3
120	I2433035-06 WG1935338	2.500	2.500	2.500	1.6603	1.4776	0.591	-	06/18/2024 23:03	DJR,NIC3
121	I2433035-07 WG1935338	2.500	2.500	2.500	0.0755	0.0010	0.000	-	06/18/2024 23:06	DJR,NIC3
122	I2433035-08 WG1935338	2.500	2.500	2.500	0.0793	0.0046	0.002	-	06/18/2024 23:09	DJR,NIC3
123	I2433035-09 WG1935338	2.500	2.500	2.500	0.0756	0.0011	0.000	-	06/18/2024 23:13	DJR,NIC3
124	I2433035-10 WG1935338	2.500	2.500	2.500	0.0949	0.0191	0.008	-	06/18/2024 23:16	DJR,NIC3
125	XCheck STD(5ug/L)	2.500	2.500	2.500	11.8584	10.9793	4.392	-	06/18/2024 23:31	DJR,NIC3
126	XCheck Blank	2.500	2.500	2.500	0.1849	0.1030	0.041	-	06/18/2024 23:34	DJR,NIC3
127	Check STD(5ug/L)	2.500	2.500	2.500	12.5479	11.6217	4.649	93.0	06/18/2024 23:55	DJR,NIC3
128	Check Blank	2.500	2.500	2.500	0.1844	0.1025	0.041	-	06/18/2024 23:59	DJR,NIC3
129	xWG1935325-1 WG1935325	2.500	2.500	2.500	0.0525	-0.0204	-0.008	-	06/19/2024 00:12	DJR,NIC3
130	xWG1935325-2 WG1935325	2.500	2.500	2.500	2.4451	2.2088	0.884	-	06/19/2024 00:15	DJR,NIC3
131	xI2433035-03 WG1935325	2.500	2.500	2.500	0.0673	-0.0066	-0.003	-	06/19/2024 00:19	DJR,NIC3
132	xWG1935325-3 WG1935325	2.500	2.500	2.500	11.7477	10.8762	4.350	-	06/19/2024 00:22	DJR,NIC3
133	xWG1935325-4 WG1935325	2.500	2.500	2.500	10.7798	9.9744	3.990	-	06/19/2024 00:25	DJR,NIC3
134	xI2433035-01 WG1935325	2.500	2.500	2.500	0.0766	0.0021	0.001	-	06/19/2024 00:29	DJR,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	xl2433035-02 WG1935325	2.500	2.500	2.500	0.0740	-0.0004	-0.000	-	06/19/2024 00:32	DJR,NIC3
136	xl2433035-04 WG1935325	2.500	2.500	2.500	0.0739	-0.0004	-0.000	-	06/19/2024 00:35	DJR,NIC3
137	xl2433035-05 WG1935325	2.500	2.500	2.500	0.0674	-0.0065	-0.003	-	06/19/2024 00:38	DJR,NIC3
138	xl2433035-06 WG1935325	2.500	2.500	2.500	0.1914	0.1090	0.044	-	06/19/2024 00:42	DJR,NIC3
139	Check STD(5ug/L)	2.500	2.500	2.500	11.2918	10.4514	4.181	83.6	06/19/2024 00:45	DJR,NIC3
140	Check Blank	2.500	2.500	2.500	0.1803	0.0987	0.039	-	06/19/2024 00:48	DJR,NIC3
141	xl2433035-07 WG1935325	2.500	2.500	2.500	0.0706	-0.0035	-0.001	-	06/19/2024 00:52	DJR,NIC3
142	xl2433035-08 WG1935325	2.500	2.500	2.500	0.0709	-0.0032	-0.001	-	06/19/2024 00:55	DJR,NIC3
143	xl2433035-09 WG1935325	2.500	2.500	2.500	0.0901	0.0146	0.006	-	06/19/2024 00:58	DJR,NIC3
144	x2433035-10 WG1935325	2.500	2.500	2.500	0.1101	0.0333	0.013	-	06/19/2024 01:01	DJR,NIC3
145	Check STD(5ug/L)	2.500	2.500	2.500	12.6315	11.6996	4.680	93.6	06/19/2024 01:05	DJR,NIC3
146	Check Blank	2.500	2.500	2.500	0.1786	0.0971	0.039	-	06/19/2024 01:08	DJR,NIC3
147	Check STD(5ug/L)	2.500	2.500	2.500	12.4860	11.5641	4.626	92.5	06/19/2024 01:11	DJR,NIC3
148	Check Blank	2.500	2.500	2.500	0.1817	0.1000	0.040	-	06/19/2024 01:15	DJR,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

Title :
Date : 6/19/2024
Name :

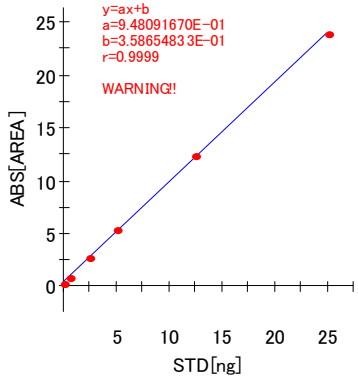
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2461	-0.1187	-	06/19/2024 06:21	JWN,NIC2
2	0.200	2.500	2.500	2.500	0.500	0.7476	0.4102	18.0	06/19/2024 06:47	JWN,NIC2
3	1.000	2.500	2.500	2.500	2.500	2.7357	2.5072	0.3	06/19/2024 06:27	JWN,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.2782	5.1889	3.8	06/19/2024 06:31	JWN,NIC2
5	5.000	2.500	2.500	2.500	12.500	12.302	12.5982	0.8	06/19/2024 06:50	JWN,NIC2
6	10.000	2.500	2.500	2.500	25.000	23.979	24.9142	0.3	06/19/2024 06:37	JWN,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	7.9635	8.0212	3.208	-	06/19/2024 06:55	JWN,NIC2
2	XICB	2.500	2.500	2.500	0.2546	-0.1098	-0.044	-	06/19/2024 06:59	JWN,NIC2
3	ICV	2.500	2.500	2.500	7.5720	7.6083	3.043	-	06/19/2024 07:12	JWN,NIC2
4	ICB	2.500	2.500	2.500	0.2550	-0.1093	-0.044	-	06/19/2024 07:15	JWN,NIC2
5	0.2 PPB	2.500	2.500	2.500	0.7526	0.4155	0.166	-	06/19/2024 07:27	JWN,NIC2
6	wg1935325-1 wg1935325	2.500	2.500	2.500	0.0561	-0.3191	-0.128	-	06/19/2024 08:06	JWN,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1935325-2 wg1935325	2.500	2.500	2.500	2.5005	2.2591	0.904	-	06/19/2024 08:10	JWN,NIC2
8	L2433035-03 wg1935325	2.500	2.500	2.500	0.0689	-0.3056	-0.122	-	06/19/2024 08:13	JWN,NIC2
9	wg1935325-3 wg1935325	2.500	2.500	2.500	12.496	12.8020	5.121	-	06/19/2024 08:16	JWN,NIC2
10	wg1935325-4 wg1935325	2.500	2.500	2.500	12.110	12.3951	4.958	-	06/19/2024 08:20	JWN,NIC2
11	L2433035-01 wg1935325	2.500	2.500	2.500	0.0811	-0.2928	-0.117	-	06/19/2024 08:23	JWN,NIC2
12	L2433035-02 wg1935325	2.500	2.500	2.500	0.0776	-0.2964	-0.119	-	06/19/2024 08:26	JWN,NIC2
13	L2433035-04 wg1935325	2.500	2.500	2.500	0.0770	-0.2971	-0.119	-	06/19/2024 08:30	JWN,NIC2
14	L2433035-05 wg1935325	2.500	2.500	2.500	0.0716	-0.3028	-0.121	-	06/19/2024 08:33	JWN,NIC2
15	Check STD(5ug/L)	2.500	2.500	2.500	12.586	12.8975	5.159	103.2	06/19/2024 08:36	JWN,NIC2
16	Check Blank	2.500	2.500	2.500	0.2537	-0.1107	-0.044	-	06/19/2024 08:40	JWN,NIC2
17	L2433035-06 wg1935325	2.500	2.500	2.500	0.1945	-0.1731	-0.069	-	06/19/2024 08:48	JWN,NIC2
18	L2433035-07 wg1935325	2.500	2.500	2.500	0.0736	-0.3007	-0.120	-	06/19/2024 08:52	JWN,NIC2
19	L2433035-08 wg1935325	2.500	2.500	2.500	0.0727	-0.3016	-0.121	-	06/19/2024 08:55	JWN,NIC2
20	L2433035-09 wg1935325	2.500	2.500	2.500	0.0965	-0.2765	-0.111	-	06/19/2024 08:58	JWN,NIC2
21	L2433035-10 wg1935325	2.500	2.500	2.500	0.1119	-0.2603	-0.104	-	06/19/2024 09:01	JWN,NIC2
22	WG1935746-1 WG1935746	2.500	2.500	2.500	0.2132	-0.1534	-0.061	-	06/19/2024 09:54	JWN,NIC2
23	WG1935746-2 WG1935746	2.500	2.500	2.500	2.6509	2.4177	0.967	-	06/19/2024 09:58	JWN,NIC2
24	L2432871-01 WG1935746	2.500	2.500	2.500	0.2380	-0.1273	-0.051	-	06/19/2024 10:01	JWN,NIC2
25	WG1935746-3 WG1935746	2.500	2.500	2.500	12.871	13.1983	5.279	-	06/19/2024 10:04	JWN,NIC2
26	WG1935746-4 WG1935746	2.500	2.500	2.500	0.2483	-0.1164	-0.047	-	06/19/2024 10:08	JWN,NIC2
27	Check STD(5ug/L)	2.500	2.500	2.500	12.438	12.7408	5.096	101.9	06/19/2024 10:11	JWN,NIC2
28	Check Blank	2.500	2.500	2.500	0.2429	-0.1221	-0.049	-	06/19/2024 10:14	JWN,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

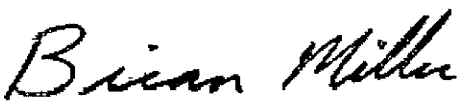
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2PPB
4	10	l2430662-12 WG1934434
5	11	l2432540-01 WG1934503
6	12	l2432603-02 WG1934503
7	13	l2432616-07 WG1934503
8	14	l2432633-03 WG1934503
9	15	l2432633-04 WG1934503
10	16	l2432748-01 WG1934503
11	17	l2432753-01 WG1934503
12	18	l2432755-01 WG1934503
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	l2432780-01 WG1934503
16	22	WG1934552-1 WG1934552
17	23	WG1934552-2 WG1934552
18	24	l2432657-01 WG1934552
19	25	WG1934552-3 WG1934552
20	26	WG1934552-4 WG1934552
21	27	l2432563-03 WG1934552
22	28	l2432580-01 WG1934552
23	29	l2432580-03 WG1934552
24	30	l2432657-02 WG1934552
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	l2432657-03 WG1934552
28	34	l2432676-01 WG1934552
29	35	l2432694-04 WG1934552
30	36	l2432762-01 WG1934552
31	37	l2432762-02 WG1934552
32	38	l2432762-03 WG1934552
33	39	l2432762-04 WG1934552
34	40	l2432762-05 WG1934552
35	41	l2432786-01 WG1934552
36	42	l2432786-02 WG1934552
37	43	Check STD(5ug/L)

38	44	Check Blank
39	45	l2432786-03 WG1934552
40	46	l2432786-04 WG1934552
41	47	WG1935445-1 WG1935445
42	48	WG1935445-2 WG1935445
43	49	l2433247-02 WG1935445
44	50	WG1935445-3 WG1935445
45	51	WG1935445-4 WG1935445
46	52	l2432252-01 WG1935445
47	53	l2432811-01 WG1935445
48	54	l2433190-02 WG1935445
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1935695-1 WG1935695
52	58	WG1935695-2 WG1935695
53	59	l2432299-03 WG1935695
54	60	WG1935695-3 WG1935695
55	61	WG1935695-4 WG1935695
56	62	l2432299-01 WG1935695
57	63	l2432299-02 WG1935695
58	64	l2432299-04 WG1935695
59	65	l2432299-05 WG1935695
60	66	l2432299-06 WG1935695
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	WG1935794-1 WG1935794
64	70	WG1935794-2 WG1935794
65	71	l2430834-01 WG1935794
66	72	WG1935794-3 WG1935794
67	73	WG1935794-4 WG1935794
68	74	l2430662-12 WG1935794
69	75	l2430834-02 WG1935794
70	76	l2430834-03 WG1935794
71	77	HG2425172234MGMV1
72	78	HG2425172234MGMV2
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	wg1935278-1 wg1935278
76	2	wg1935278-2 wg1935278
77	3	l2433121-01 wg1935278
78	4	wg1935278-3 wg1935278
79	5	wg1935278-4 wg1935278
80	6	l2433121-02 wg1935278
81	7	l2433121-03 wg1935278

82	11	Check STD(5ug/L)
83	12	Check Blank
84	13	Check STD(5ug/L)
85	14	Check Blank
86	15	Q2 LDR NIC 3 AQ 25 PPB
87	16	Check STD(5ug/L)
88	17	Check Blank
89	18	WG1935356-1 WG1935356
90	19	WG1935356-2 WG1935356
91	20	l2433060-01 WG1935356
92	21	WG1935356-3 WG1935356
93	22	WG1935356-4 WG1935356
94	23	xCheck STD(5ug/L)
95	24	xCheck Blank
96	25	Check STD(5ug/L)
97	26	Check Blank
98	27	l2433046-01 WG1935356
99	28	l2433047-01 WG1935356
100	29	l2433065-01 WG1935356
101	30	l2432710-01 WG1935356
102	31	l2432758-01 WG1935356
103	32	WG1935338-1 WG1935338
104	33	WG1935338-2 WG1935338
105	34	l2433035-03 WG1935338
106	35	Check STD(5ug/L)
107	36	Check Blank
108	37	WG1935338-3 WG1935338
109	38	WG1935338-4 WG1935338
110	39	l2433035-05 WG1935338
111	40	WG1935338-5 WG1935338
112	41	WG1935338-6 WG1935338
113	42	l2432783-01 WG1935338
114	43	l2432978-03 WG1935338
115	44	l2433035-01 WG1935338
116	45	l2433035-02 WG1935338
117	46	l2433035-04 WG1935338
118	47	Check STD(5ug/L)
119	48	Check Blank
120	49	l2433035-06 WG1935338
121	50	l2433035-07 WG1935338
122	51	l2433035-08 WG1935338
123	52	l2433035-09 WG1935338
124	53	l2433035-10 WG1935338
125	54	XCheck STD(5ug/L)

126	55	XCheck Blank
127	59	Check STD(5ug/L)
128	60	Check Blank
129	61	xWG1935325-1 WG1935325
130	62	xWG1935325-2 WG1935325
131	63	xl2433035-03 WG1935325
132	64	xWG1935325-3 WG1935325
133	65	xWG1935325-4 WG1935325
134	66	xl2433035-01 WG1935325
135	67	xl2433035-02 WG1935325
136	68	xl2433035-04 WG1935325
137	69	xl2433035-05 WG1935325
138	70	xl2433035-06 WG1935325
139	71	Check STD(5ug/L)
140	72	Check Blank
141	73	xl2433035-07 WG1935325
142	74	xl2433035-08 WG1935325
143	75	xl2433035-09 WG1935325
144	76	x2433035-10 WG1935325
145	77	Check STD(5ug/L)
146	78	Check Blank
147	79	Check STD(5ug/L)
148	80	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	XICV
2	8	XICB
3	7	ICV
4	8	ICB
5	9	0.2 PPB
6	10	wg1935325-1 wg1935325
7	11	wg1935325-2 wg1935325
8	12	L2433035-03 wg1935325
9	13	wg1935325-3 wg1935325
10	14	wg1935325-4 wg1935325
11	15	L2433035-01 wg1935325
12	16	L2433035-02 wg1935325
13	17	L2433035-04 wg1935325
14	18	L2433035-05 wg1935325
15	19	Check STD(5ug/L)
16	20	Check Blank
17	21	L2433035-06 wg1935325
18	22	L2433035-07 wg1935325
19	23	L2433035-08 wg1935325
20	24	L2433035-09 wg1935325
21	25	L2433035-10 wg1935325
22	26	WG1935746-1 WG1935746
23	27	WG1935746-2 WG1935746
24	28	L2432871-01 WG1935746
25	29	WG1935746-3 WG1935746
26	30	WG1935746-4 WG1935746
27	31	Check STD(5ug/L)
28	32	Check Blank

METALS ELN REPORT

Workgroup: WG1935325

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2424141423ADG
	NaCl-NH2OH.HCl	HH2424142055DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2433035-01 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	ALL Q CONTAINERS
L2433035-02 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-03 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-04 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-05 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-06 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-07 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-08 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-09 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-10 SAMP	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935325-1 BLANK	06/17/24 17:36	Maisie Mcqueen	NA	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	ELN: CLH

Reported: 19-JUN-24 11:46 AM

METALS ELN REPORT

Workgroup: WG1935325

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1935325-2 LCS	06/17/24 17:36	Maisie Mcqueen	NA	25	0.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935325-3 MS	06/17/24 17:36	Maisie Mcqueen	NA	25	1.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935325-4 MSD	06/17/24 17:36	Maisie Mcqueen	NA	25	1.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 19-JUN-24 11:46 AM

METALS ELN REPORT

Workgroup: WG1935338

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24006780	H2SO4	24009418	METALS	METSPIKE	HG24241219 51HCRV1	METSPIKE	HG24241219320, 344 51HCRV1	

Additional Reagent/Std	K2O8S2	PS2424121723MGM
	KMnO4	PP2424141423ADG
	NaCl-NH2OH.HCl	HH2424142055DJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2432783-01 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2432978-03 WATER	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-01 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-02 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-03 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-04 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-05 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-06 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-07 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-08 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-09 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	
L2433035-10 SAMP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	

Reported: 19-JUN-24 11:46 AM

METALS ELN REPORT

Workgroup: WG1935338

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1935338-1 BLANK	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	ELN: CLH
WG1935338-2 LCS	06/17/24 17:36	Maisie Mcqueen	25	0.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935338-3 MS	06/17/24 17:36	Maisie Mcqueen	25	1.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935338-4 MSD	06/17/24 17:36	Maisie Mcqueen	25	1.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935338-5 MS	06/17/24 17:36	Maisie Mcqueen	25	1.25	06/17/24 17:36	5	95.0	06/17/24 19:36	25	
WG1935338-6 DUP	06/17/24 17:36	Maisie Mcqueen	25		06/17/24 17:36	5	95.0	06/17/24 19:36	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 19-JUN-24 11:46 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.3	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.9	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.81	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.3	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-05	**Date Collected**	:	06/12/24 10:30
Client ID	:	MP-1	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 12:25
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG1936510.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.1	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.92	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.9	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-08	**Date Collected**	:	06/12/24 12:38
Client ID	:	MW-6D	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 12:25
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG1936510.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.1	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 12:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1936510.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.6	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 6/19/2024 12:25
Technician: MRM
Work group: WG1936510
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2432633-03	0.617	1.8	1.0	2.417
SAMP	L2432633-04	0.0721	2.2	1.0	2.2
	L2432654-01	0	17	1.6	17
SAMP	L2432737-01	9.14	0.26	1.0	9.4
SAMP	L2432871-01	0.173	1.7	1.0	1.7
SAMP	L2432871-02	0.354	4.7	1.0	5.054
SAMP	L2432960-07	12	0	1.0	12
SAMP	L2433035-01	0.315	2	1.0	2.315
SAMP	L2433035-02	0	3.9	1.0	3.9
SAMP	L2433035-03	0	0.81	1.0	0.81
SAMP	L2433035-04	0.727	1.6	1.0	2.327
SAMP	L2433035-05	0.125	1.1	1.0	1.1
SAMP	L2433035-06	0	0.92	1.0	0.92
SAMP	L2433035-07	0.187	1.9	1.0	1.9
SAMP	L2433035-08	0	2.1	1.0	2.1
SAMP	L2433035-09	0	0	1.0	0
SAMP	L2433035-10	0	1.6	1.0	1.6

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.315	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.727	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.125	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.187	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 10:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935750-1	**Date Collected**	: NA
Client ID	: WG1935750-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935750-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/19/24 10:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEP
Lab File ID	: NH320240619-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Sample Raw Data

Original Run Filename: OM_6-19-2024_10-01-48AM.OMN Created: 6/19/2024 10:01:48 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-19-2024_10-01-48AM.OMN Last Modified: 6/19/2024 10:39:29 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38411				96%
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.93801				98%
			Known Conc:	100.00000				
	CCB	1	S10	0.02536				
			Known Conc:	100.00000				
	HI ICV 8.0	1	1	8.36022				105%
	LO ICV 1.0	1	2	1.06214				106%
	ICB	1	3	0.00921				
X	WG1935750-1 T	1	4	0.11252				+BLANK, RERUN CONFIRMS
WG1935766	WG1935750-2 T	1	5	37.70078		15.00		94%
	LCS LO T	1	6	4.42669		3.00		
	L2433035-01 T	1	7	0.64223		3.00		
	L2433035-02 T	1	8	0.21531		3.00		
	L2433035-03 T	1	9	0.17653		3.00		
	WG1935750-3 T	1	10	0.09868		3.00		
	CCV 0.4000	1	S6	0.38824				97%
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	3.93761				98%
			Known Conc:	100.00000				
	CCB	1	S10	0.02654				
			Known Conc:	100.00000				
	WG1935750-4 T	1	11	8.28230		3.00		
	L2433035-04 T	1	12	1.05414		3.00		
	L2433035-05 T	1	13	0.45235		3.00		
	L2433035-06 T	1	14	0.39287		3.00		
	L2433035-07 T	1	15	0.51369		3.00		
	L2433035-08 T	1	16	0.04658		3.00		
	L2433035-09 T	1	17	0.11687		3.00		
	L2433035-10 T	1	18	0.25026		3.00		
	L2432654-01 T	1	19	0.53963		15.00		
	L2432737-01 T	1	20	9.46689		3.00		
X	CCV 0.4000	1	S6	0.52655				132%, RERUN OK
			Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

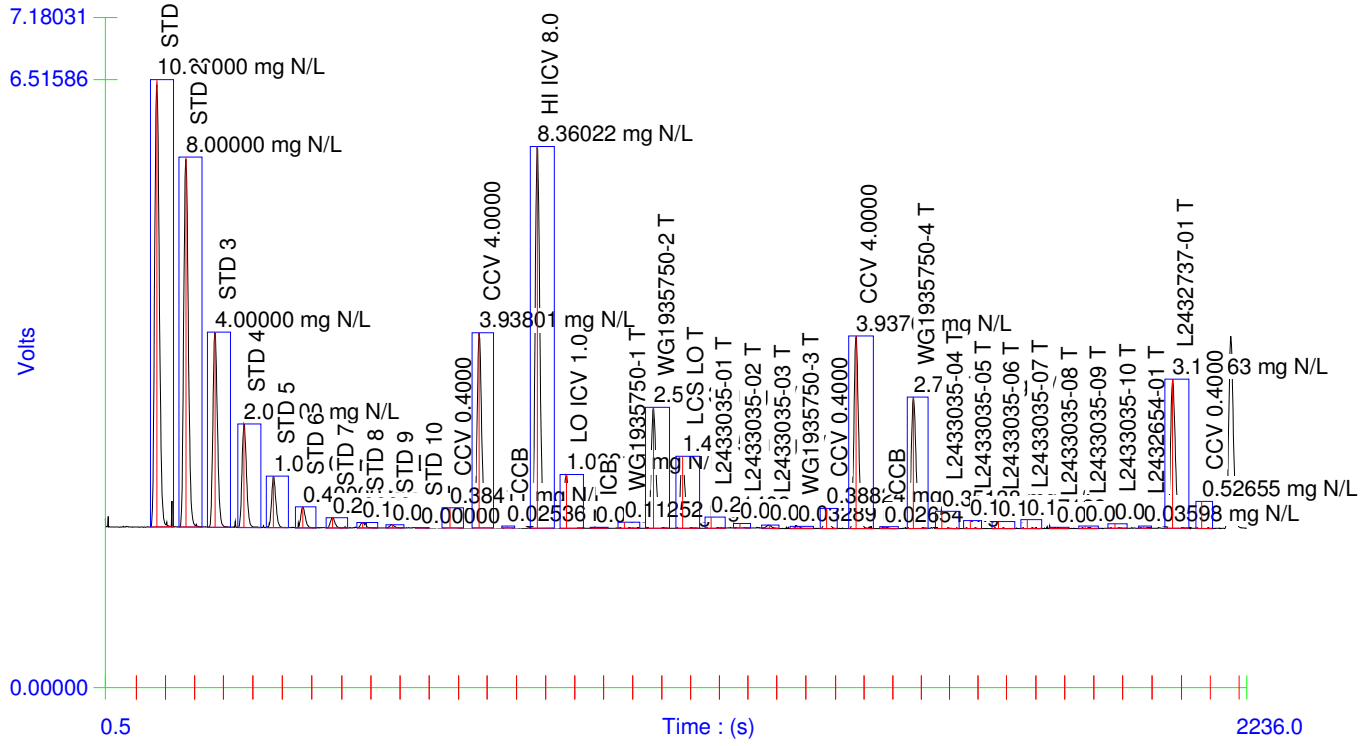
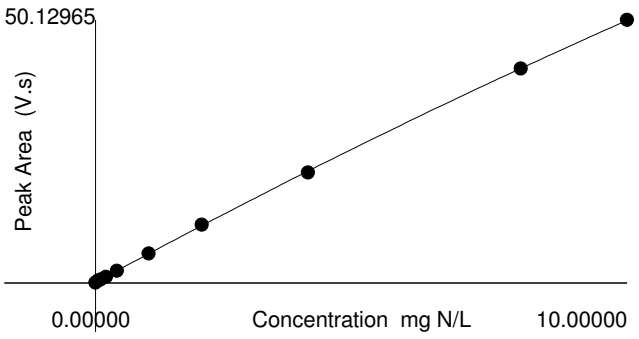


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.12965	4.79572	0.0	-0.2	10.00959	6/19/2024	10:03:00 AM
2	8.00000	1	40.86650	3.96391	0.0	0.1	8.00619	6/19/2024	10:03:57 AM
3	4.00000	1	21.03805	2.09096	0.0	1.3	3.94828	6/19/2024	10:04:54 AM
4	2.00000	1	11.09739	1.10791	0.0	-1.7	2.03217	6/19/2024	10:05:51 AM
5	1.00000	1	5.58096	0.55177	0.0	-0.6	1.00293	6/19/2024	10:06:48 AM
6	0.40000	1	2.28187	0.22341	0.0	-0.2	0.39902	6/19/2024	10:07:46 AM
7	0.20000	1	1.13141	0.11023	0.0	4.1	0.19046	6/19/2024	10:08:44 AM
8	0.10000	1	0.62478	0.05804	0.0	0.8	0.09896	6/19/2024	10:09:43 AM
9	0.05000	1	0.40072	0.03452	0.0	-13.2	0.05856	6/19/2024	10:10:40 AM
10	0.00000	1	0.04268	0.00372			-0.00592	6/19/2024	10:11:37 AM

Figure : 1 (Ammonia)



Area = - 0.05258 * Conc^2 + 5.52181 * Conc + 0.07811
Conc = 0.00040 * Area^2 + 0.17991 * Area - 0.01360
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/19/2024

Original Run Filename: OM_6-19-2024_10-44-20AM.OMN Created: 6/19/2024 10:44:20 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-19-2024_10-44-20AM.OMN Last Modified: 6/19/2024 10:58:21 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
							TRAY A
CCV 0.4000	1	S6	0.37418				94%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.90747				98%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.03192				
	Known Conc:		100.00000				
WG1935750-1 T	1	4	0.10905				+ BLANK CONFIRMS
L2432871-01 T	1	21	0.49970		3.00		
L2432871-02 T	1	22	0.68086		3.00		
L2432960-07 T	1	23	12.32143		3.00		
CCV 0.4000	1	S6	0.43669				109%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87533				97%
	Known Conc:		100.00000				
CCB	1	S10	0.03646				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

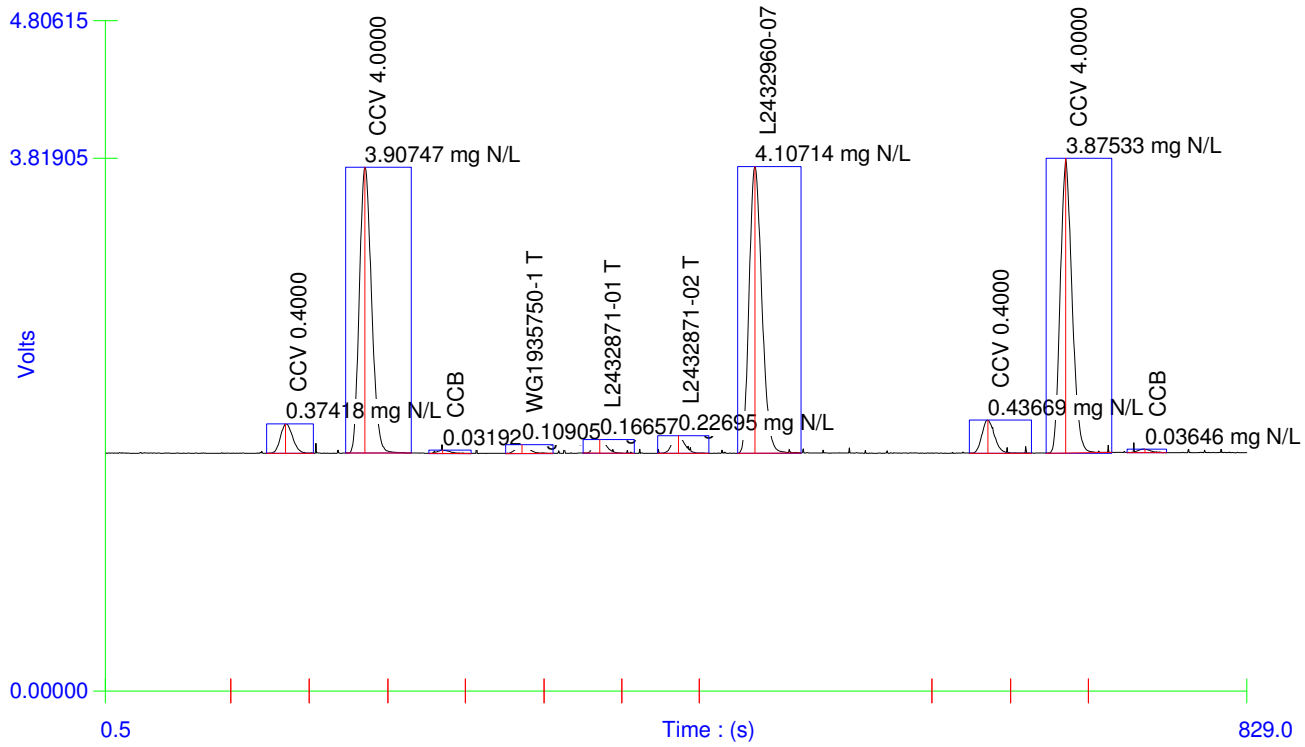
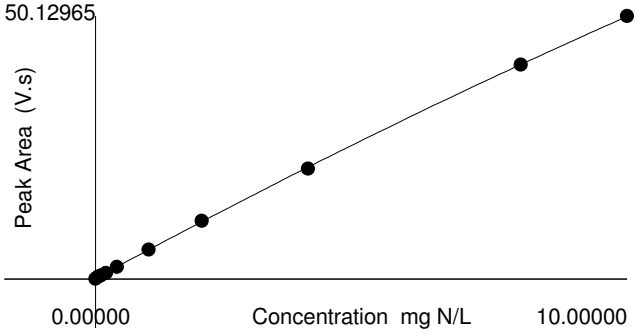


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.12965	4.79572	0.0	-0.2	10.00959	6/19/2024	10:03:00 AM
2	8.00000	1	40.86650	3.96391	0.0	0.1	8.00619	6/19/2024	10:03:57 AM
3	4.00000	1	21.03805	2.09096	0.0	1.3	3.94828	6/19/2024	10:04:54 AM
4	2.00000	1	11.09739	1.10791	0.0	-1.7	2.03217	6/19/2024	10:05:51 AM
5	1.00000	1	5.58096	0.55177	0.0	-0.6	1.00293	6/19/2024	10:06:48 AM
6	0.40000	1	2.28187	0.22341	0.0	-0.2	0.39902	6/19/2024	10:07:46 AM
7	0.20000	1	1.13141	0.11023	0.0	4.1	0.19046	6/19/2024	10:08:44 AM
8	0.10000	1	0.62478	0.05804	0.0	0.8	0.09896	6/19/2024	10:09:43 AM
9	0.05000	1	0.40072	0.03452	0.0	-13.2	0.05856	6/19/2024	10:10:40 AM
10	0.00000	1	0.04268	0.00372			-0.00592	6/19/2024	10:11:37 AM

Figure : 1 (Ammonia)



Area = - 0.05258 * Conc^2 + 5.52181 * Conc + 0.07811
Conc = 0.00040 * Area^2 + 0.17991 * Area - 0.01360
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935750-4	**MS Analysis Date**	: 06/19/24 10:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	7.96	100					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/19/24 10:23
Dup Sample ID	: WG1935750-3	**DUP Analysis Date**	: 06/19/24 10:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	ND	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935750-2	**LCS Analysis Date**	: 06/19/24 10:19
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**36.1**	**90.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

Tray A (10-01-48AM, 10-44-20AM)
prep 6/18/24 @14:17

1	Hi ICV 8.0	
2	Lo ICV 1.0	
3	ICB	
⊗ 4	WG1935750-1T, Blk; rerun	
5	(5766)-2T, LCS Hi, 5x	
6	LCS Lo 7	
7	33035-01T	
8	-02T	
9	-03T	
10	-03T	Dup
11	-03T	MS
12	-04T	
13	-05T	
14	-06T	
15	-07T	
16	-08T	
17	-09T	
18	-10T	
19	32654-01T (5x)	
20	32737-01T	
21	32871-01T	
22	-02T	
23	32960-07T	

Tray B
prep 6/18/24 @9:00

1	WG1935578-1T, Blk	
2	-2T, LCS Hi, 5x	
3	LCS Lo 7	
4	30639-01T	
5	31805-03T	
6	32633-03T	
7	-04T	
8	-04T	MS
9	-04T	Dup
10	33105-01T	
11	-02T	
12	-03T	
13	-04T	
14	-05T	
15	-06T	
16	-07T	
17	-08T	
18	-09T	
19	33161-01T	
20	-02T	

Date: 6/19/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 Stop&Shop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-3969
ICV 1.0:
ICV 8.0: 6/4/24 WC-3433
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

VGP

VGP

To Page No. ____

Sample Preparation

WG1935750

WG1935766

Sample	Dilution	Volume	Final Vol.
Blank	1x	50mL	150mL
Low			
High			
L2433035-01			
-02			
D: 23710-75 -03Pt			
-03 Dup			
-03 MS			
-04			
-05			
-06			
-07			
-08			
-09			
-10			
L2432654-01	5x (10+50) N=17		
32737-01	1x		
32871-01			
-02			
32960-07			

Same Std's & Reagents as previous pg # 50

061824 @ 14:17 SAD

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.0	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.9	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-03	**Date Collected**	:	06/12/24 08:30
Client ID	:	MW-1SR	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 08:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240618-B1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.81	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.6	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-05	**Date Collected**	:	06/12/24 10:30
Client ID	:	MP-1	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 08:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240618-B1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.1	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 08:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.92	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-07	**Date Collected**	:	06/12/24 12:25
Client ID	:	PZ-6	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 08:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240618-B1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.9	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.1	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.6	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935576-1	**Date Collected**	: NA
Client ID	: WG1935576-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 04:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935576-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 08:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240618-B1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.80	0.10	0.05	

Sample Raw Data

Original Run Filename: OM_6-18-2024_03-25-38AM.OMN Created: 6/18/2024 3:25:38 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-18-2024_03-25-38AM.OMN Last Modified: 6/18/2024 6:14:23 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.00993	-0.00906			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.01226	1.05813			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01757	-0.00920			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.04130	-0.00563			
ICV NO2 5.0	1	2	5.04783	5.12794			
ICV NO3 0.5	1	3	0.50712	-0.00925			
ICV NO2 0.5	1	4	0.50543	0.52118			
ICB	1	5	-0.01136	-0.00943			
DILUTER CHK 8PPM	1	6	8.41693	-0.06931	5.00		
BLK NO3	1	7	-0.01453	-0.00591			
LCS NO3	1	8	5.02268	-0.00169			
BLK NO2	1	9	-0.01279	-0.00749			
LCS NO2	1	10	4.99558	5.16276			
CCV NO3	1	S2	1.02998	-0.00761			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02247	1.05881			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01180	-0.00660			
	Known Conc:		0.00000	0.00000			
XWG1935568-1; NO2	1	11	-0.01357	-0.00699			
XWG1935568-2; NO2	1	12	5.07494	5.16357			
XWG1935569/574-1; NO3	1	13	-0.01704	-0.01835			
XWG1935569/574-2; NO3	1	14	5.04293	-0.01435			
WG1935570-1; NO3	1	15	-0.03049	-0.01447			
WG1935570-2; NO3	1	16	4.96003	-0.00271			
WG1935575-1; CNO3	1	17	-0.02038	-0.00362			
WG1935575-2; CNO3	1	18	5.02476	-0.00177			
WG1935576-1; CNO3	1	19	-0.03496	-0.00778			
WG1935576-2; CNO3	1	20	5.03518	-0.00670			
CCV NO3	1	S2	1.00965	-0.00574			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01472	1.05905			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00440	-0.01750			
	Known Conc:		0.00000	0.00000			
XL2433716-02B	1	21	1.60128	0.31488			
XL2434065-01H	1	22	0.17623	0.05004			
XWG1935569-3; DUP NO3 065-01	1	23	0.16563	0.04157			
XWG1935569-4; MS NO3 065-01	1	24	4.05720	0.04321			
XWG1935568-3; DUP NO2 065-01	1	25	0.16755	0.04048			
XWG1935568-4; MS NO2 065-01	1	26	4.32343	4.22516			

XL2434065-02H	1	27	0.13778	0.01280			
L2433934-02A	1	28	2.63845	0.00688			
WG1935570-3; DUP NO3 934-02	1	29	2.64022	0.00207			
WG1935570-4; MS NO3 934-02	1	30	6.47513	0.03245			
CCV NO3	1	S2	1.04441	-0.00553			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03948	1.06325			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00968	-0.00987			
	Known Conc:		0.00000	0.00000			
L2433934-04A	1	31	0.02418	0.00648			
L2433934-05A	1	32	0.01092	0.00085			
L2433934-07A	1	33	2.11998	0.02222			
L2433934-09A	1	34	2.19208	0.07798			
L2433934-11A	1	35	1.56435	0.04851			
L2433934-12A	1	36	2.15708	0.01638			
L2433934-13A	1	37	1.36004	0.02830			
L2433934-14A	1	38	0.17798	0.00812			
L2433934-15A	1	39	0.11258	0.00746			
L2433934-16A	1	40	1.63468	0.04591			
CCV NO3	1	S2	1.03751	-0.01390			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03387	1.06836			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00018	-0.00890			
	Known Conc:		0.00000	0.00000			
L2433934-19A	1	41	0.01321	0.00147			
L2433934-21A	1	42	0.18135	0.01117			
L2433934-22A	1	43	0.17441	0.01135			
L2433934-23A	1	44	0.32406	0.00843			
L2433934-24A	1	45	0.17112	0.00963			
L2433934-25A	1	46	0.27809	0.00852			
L2433934-26A	1	47	0.32622	0.00873			
L2433934-27A	1	48	0.65204	0.01682			
L2433934-28A	1	49	0.88525	0.01094			
L2433934-29A	1	50	0.39654	0.02129			
CCV NO3	1	S2	1.04403	-0.00802			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03652	1.06376			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00035	-0.00981			
	Known Conc:		0.00000	0.00000			
L2433934-30A	1	51	0.92938	0.01263			
WG1935574-3; DUP NO3 934-30	1	52	0.90485	0.00235			
WG1935574-4; MS NO3 934-30	1	53	4.83564	0.00402			
L2433934-31A	1	54	0.00808	-0.00112			
L2433770-35A	1	55	0.01306	0.00557			
L2432851-01C	1	56	0.09625	0.00229			
WG1935575-3; DUP CNO3 851-01	1	57	0.08704	-0.00721			
WG1935575-4; MS CNO3 851-01	1	58	4.00204	-0.01043			
L2432871-01L	1	59	1.68142	0.08555			
WG1935575-5; DUP CNO3 871-01	1	60	1.68052	0.07662			
CCV NO3	1	S2	1.04156	-0.00976			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02266	1.07477			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01412	-0.01116			
	Known Conc:		0.00000	0.00000			
WG1935575-6; MS CNO3 871-01	1	61	5.55766	0.07337			
L2432871-02B	1	62	4.73886	0.22331			
L2432898-02A	1	63	2.18988	0.04914			
L2432898-04A	1	64	2.61009	0.04331			
L2432898-07A	1	65	1.57891	0.04292			
L2433019-01A	1	66	7.09211	0.03854			
L2433050-02C	1	67	0.09728	0.00560			
L2433050-03C	1	68	0.17905	0.00320			
L2433220-01C	1	69	0.16084	0.00560			
L2433266-01C	1	70	2.06000	0.02059			

CCV NO3	1	S2	1.04758	-0.00775			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03402	1.06492			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00428	-0.01055			
	Known Conc:		0.00000	0.00000			
L2433266-02C	1	71	4.24830	0.00624			
L2433266-03C	1	72	0.34106	0.00240			
L2433266-04C	1	73	2.05756	0.00862			
L2433339-01C	1	74	0.03327	0.00289			
L2433339-02C	1	75	0.19091	0.00468			
L2433465-01C	1	76	4.86331	0.00098			
L2433465-02C	1	77	3.69547	0.00091			
L2433492-01F	1	78	0.07341	0.00054			
L2433502-02H	1	79	0.02739	0.00863			
L2431703-01B	1	80	0.36471	0.00989			
CCV NO3	1	S2	1.04214	-0.00987			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03667	1.05672			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00437	-0.00999			
	Known Conc:		0.00000	0.00000			
L2432933-01B	1	81	1.54891	0.07534			
L2432933-02B	1	82	1.18544	0.00772			
L2432937-01B	1	83	0.01318	0.00110			
L2432937-02B	1	84	0.26125	0.00355			
CCV NO3	1	S2	1.04955	-0.00974			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03907	1.06729			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00493	-0.01202			
	Known Conc:		0.00000	0.00000			

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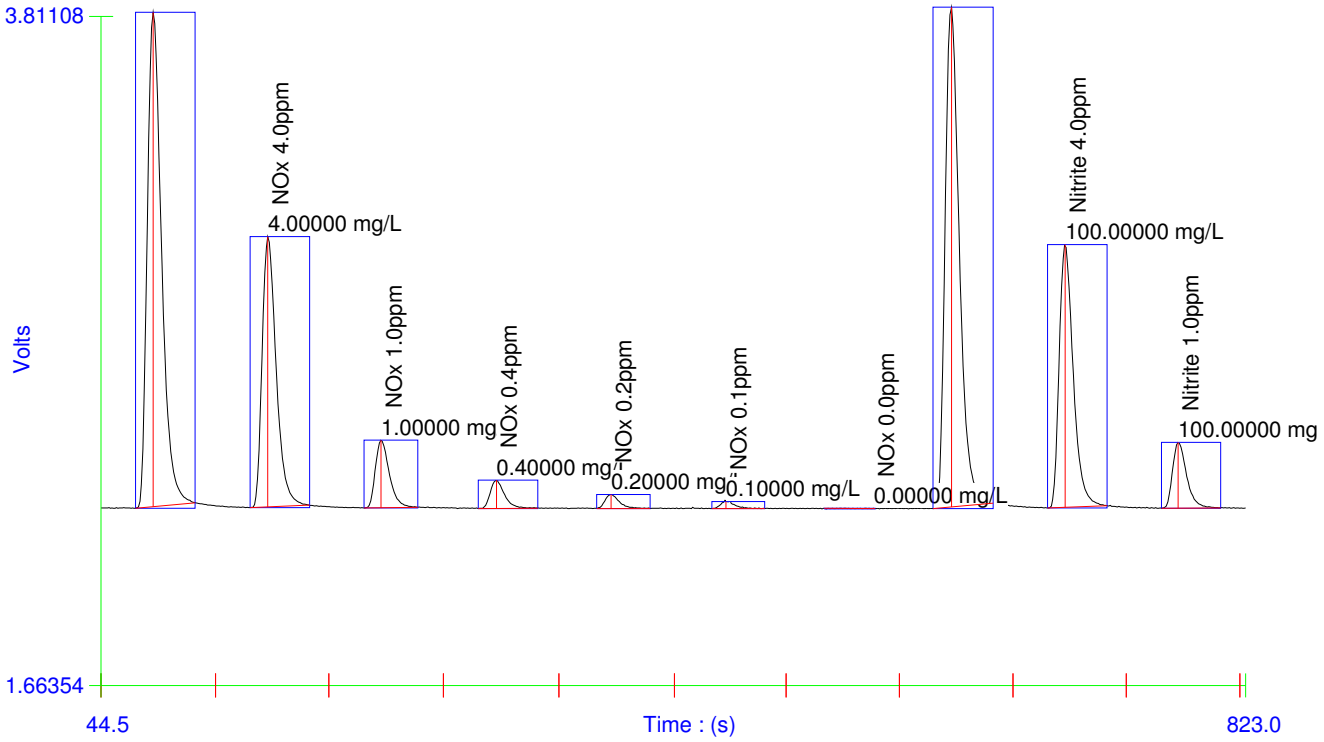

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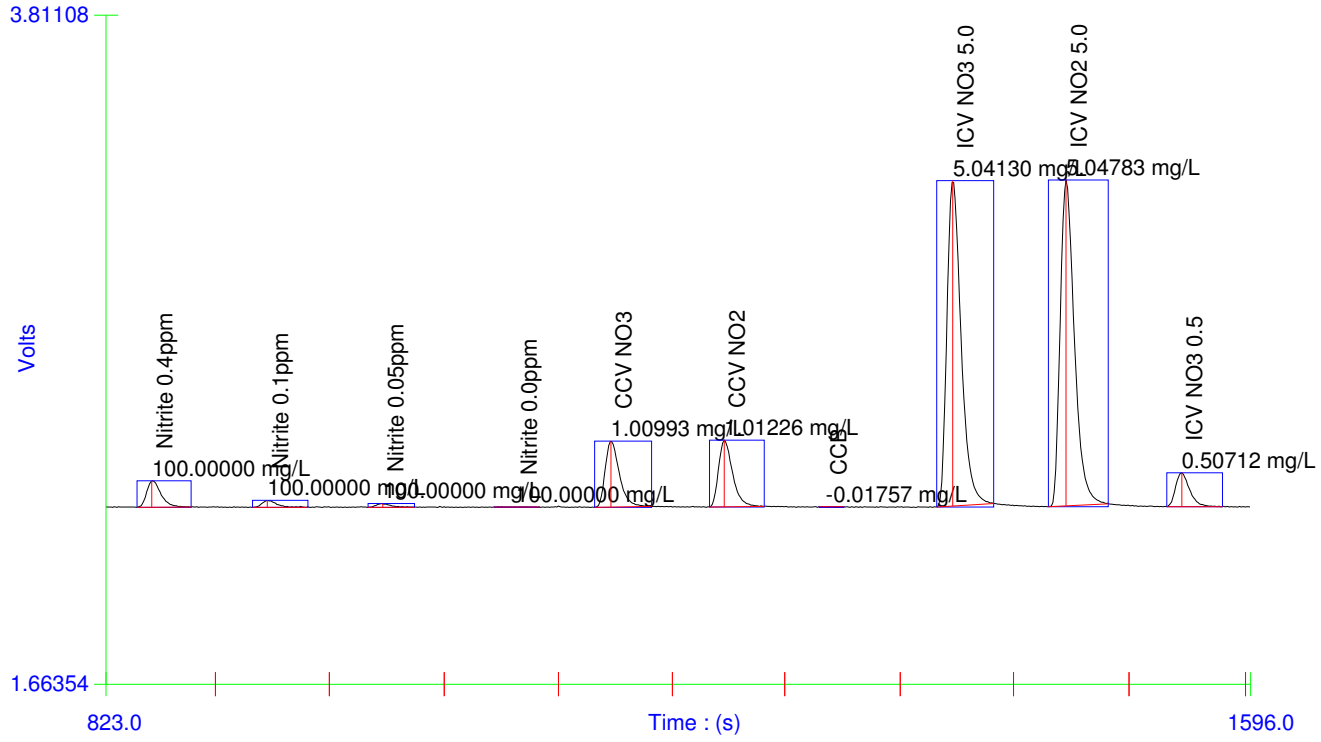

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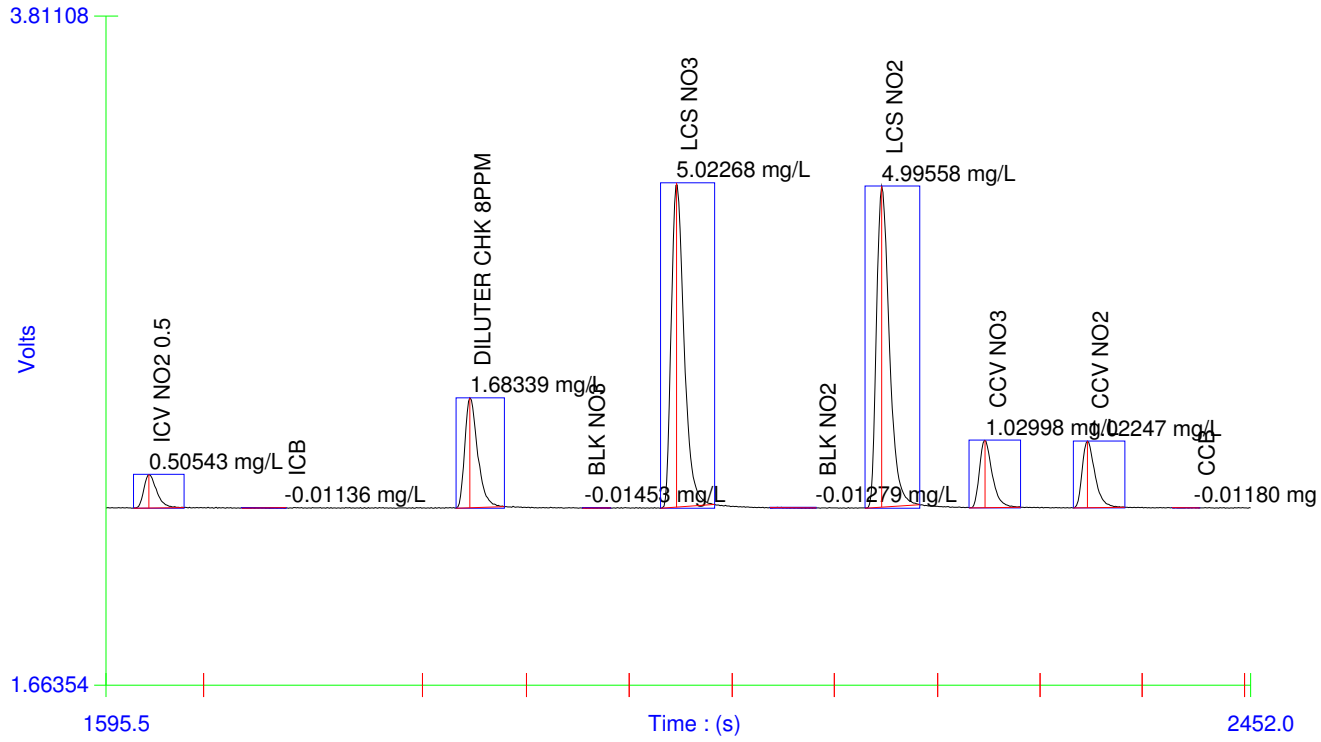

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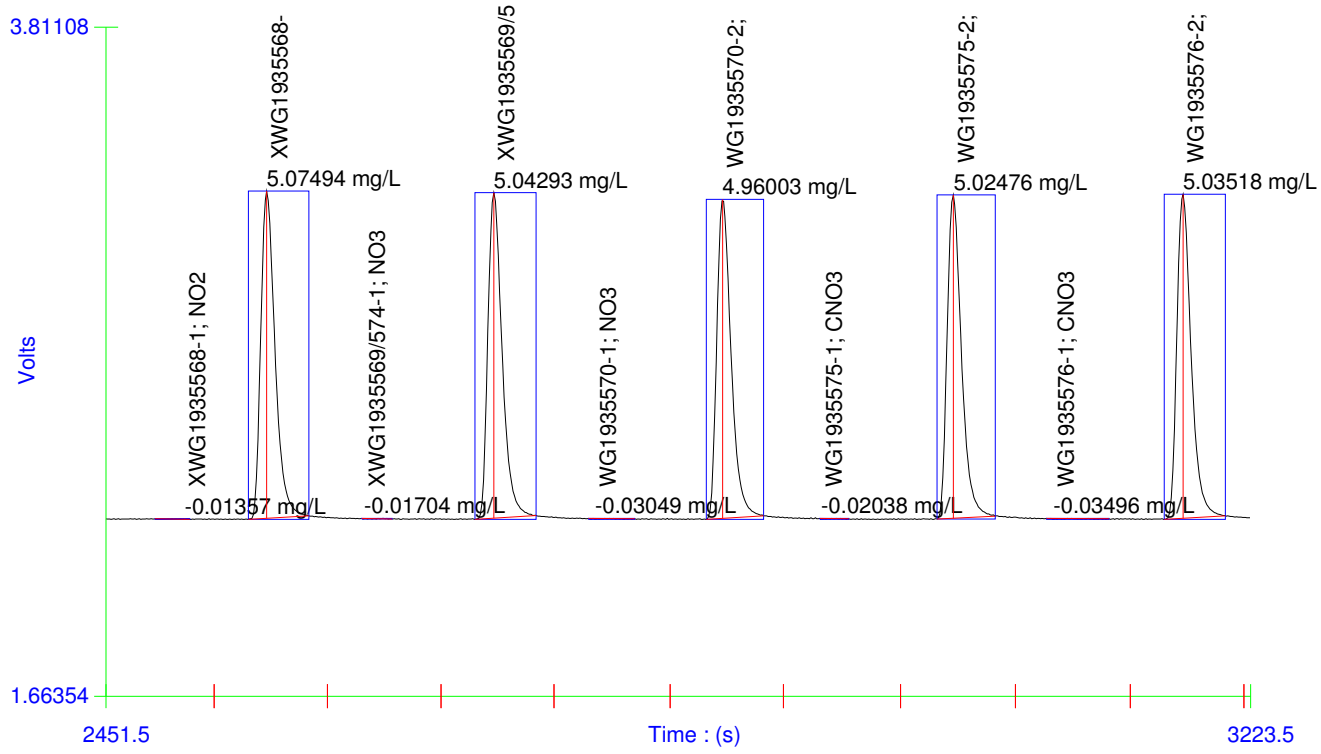

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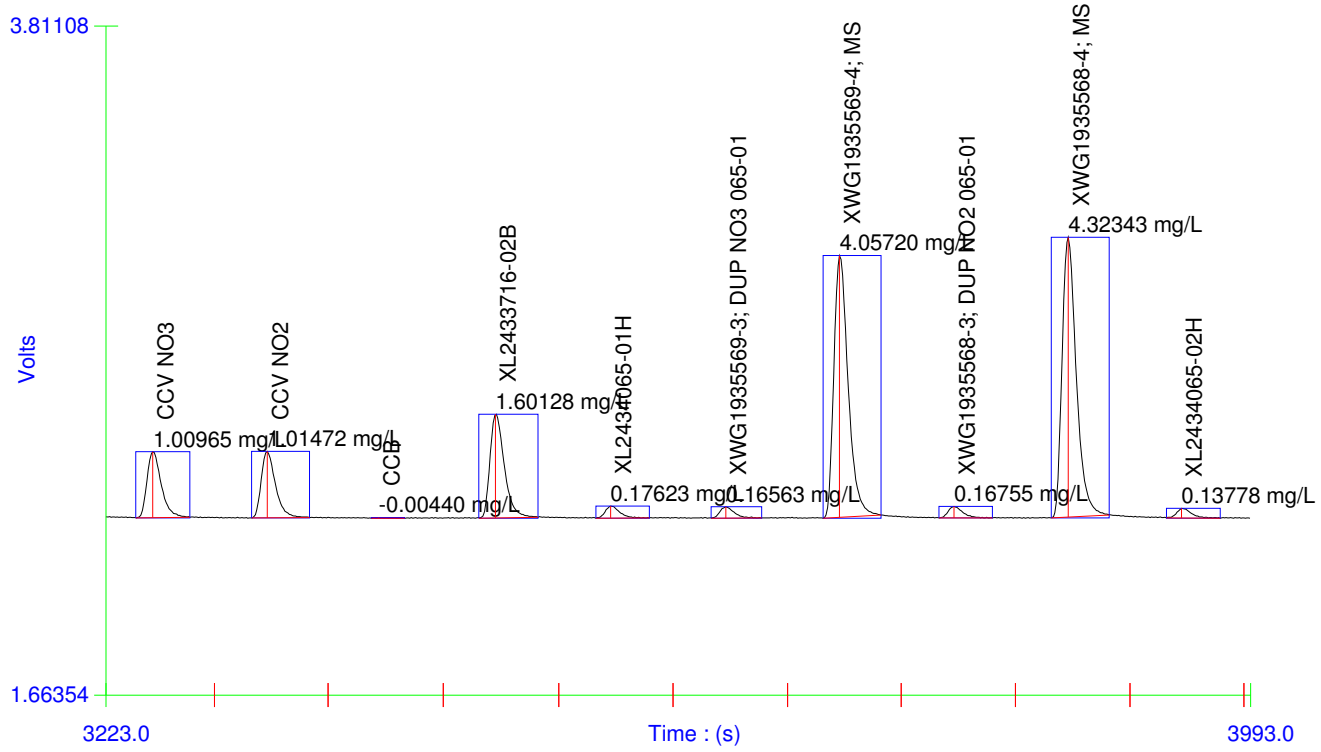

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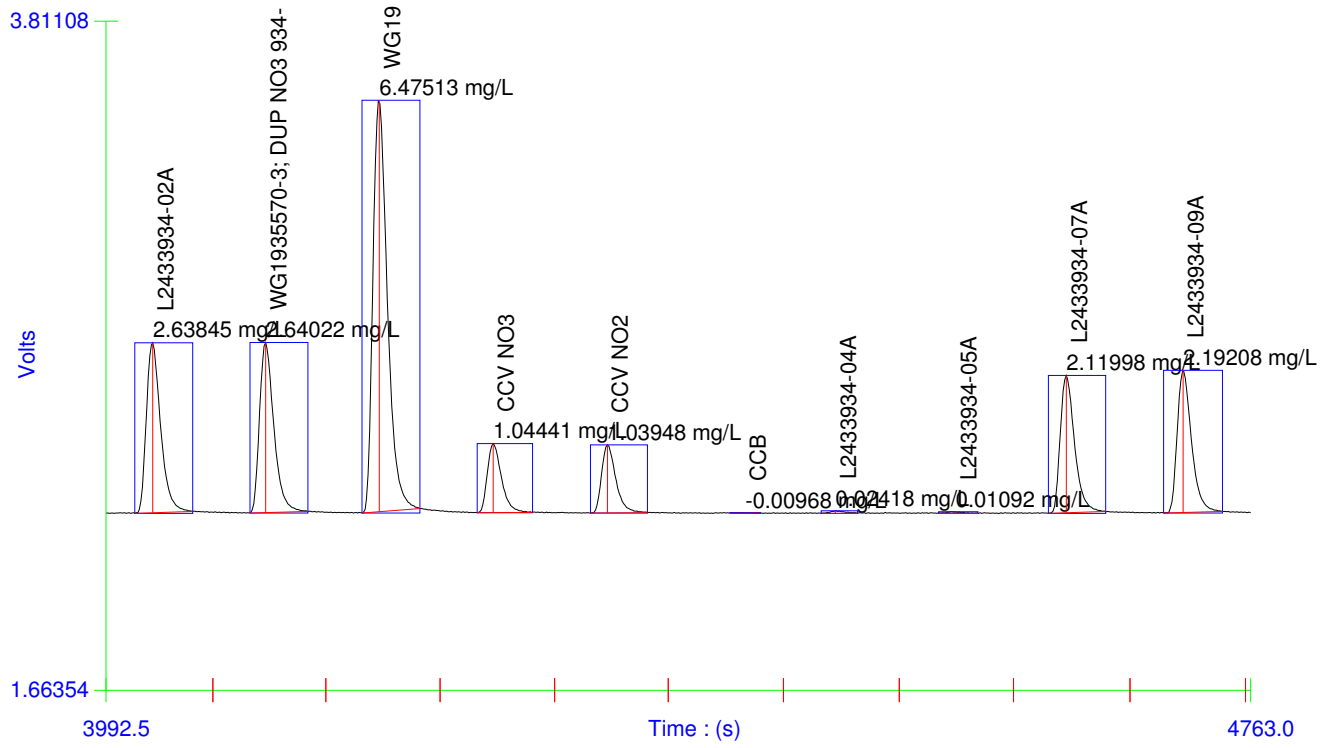

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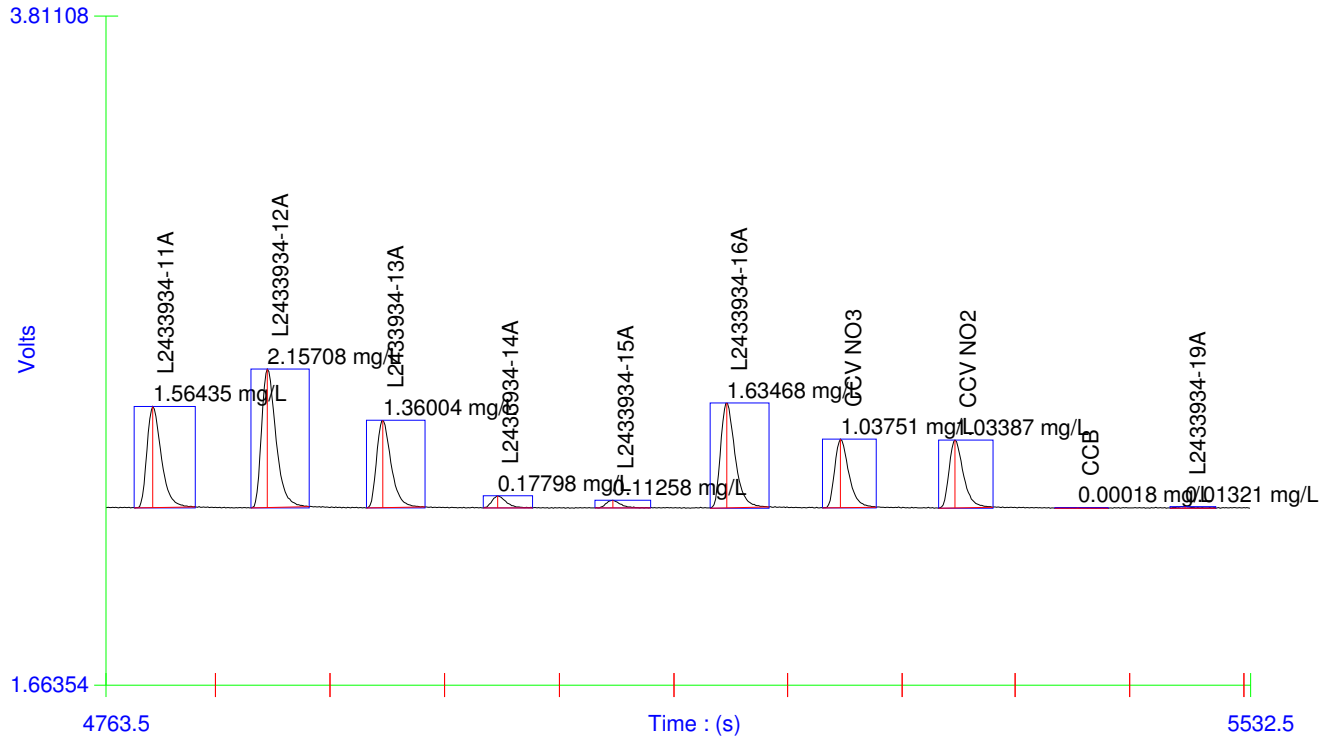

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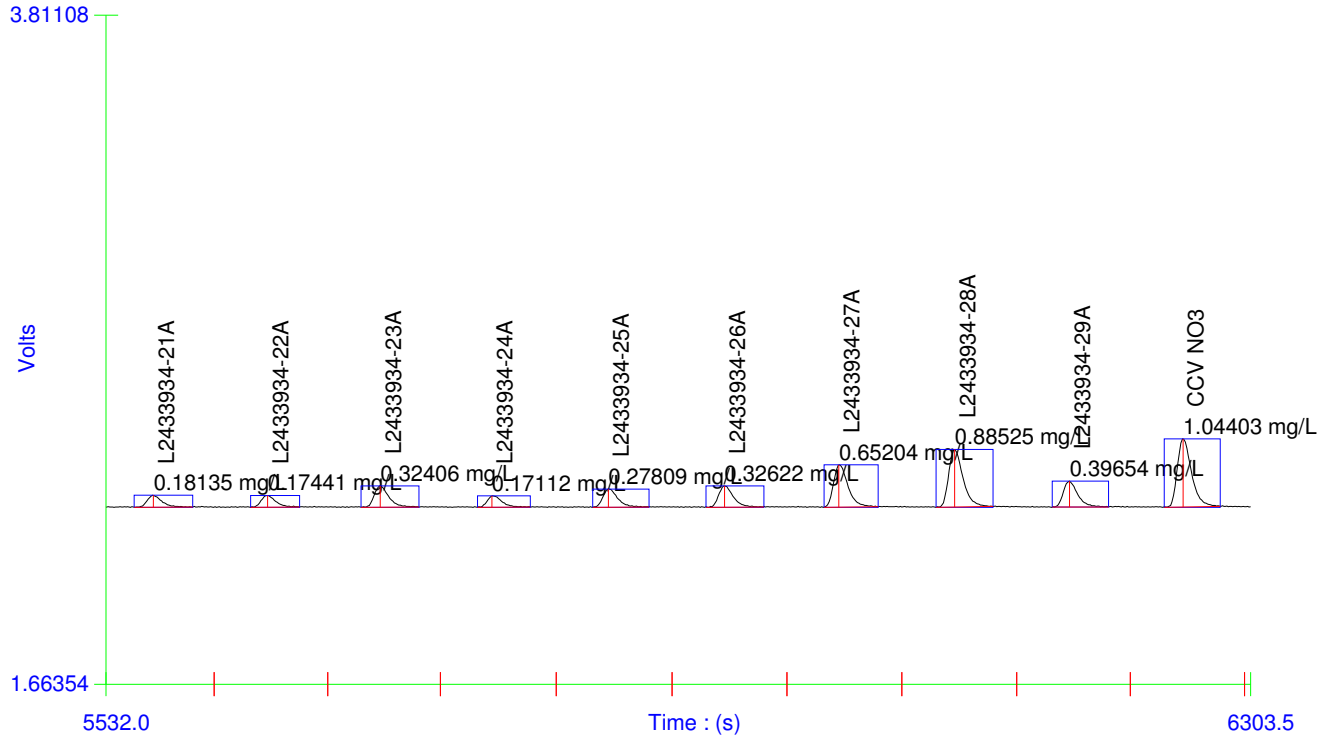

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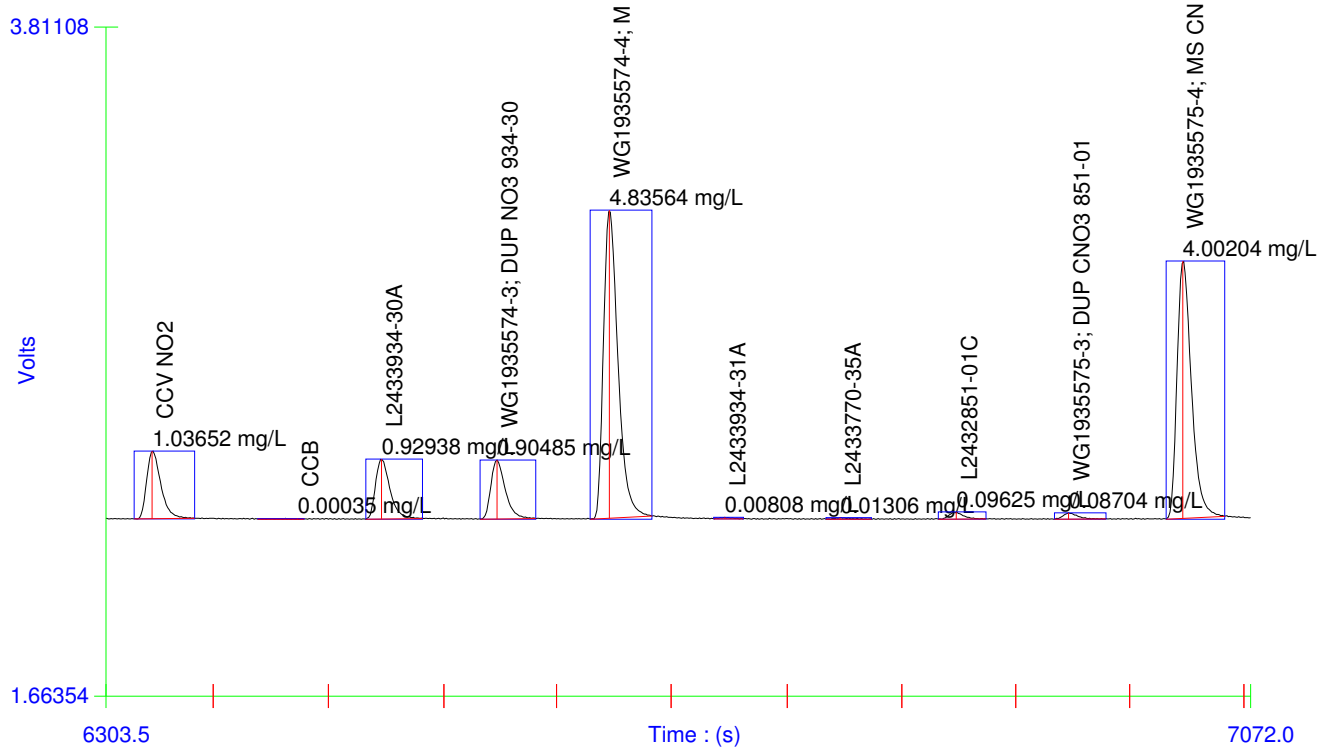

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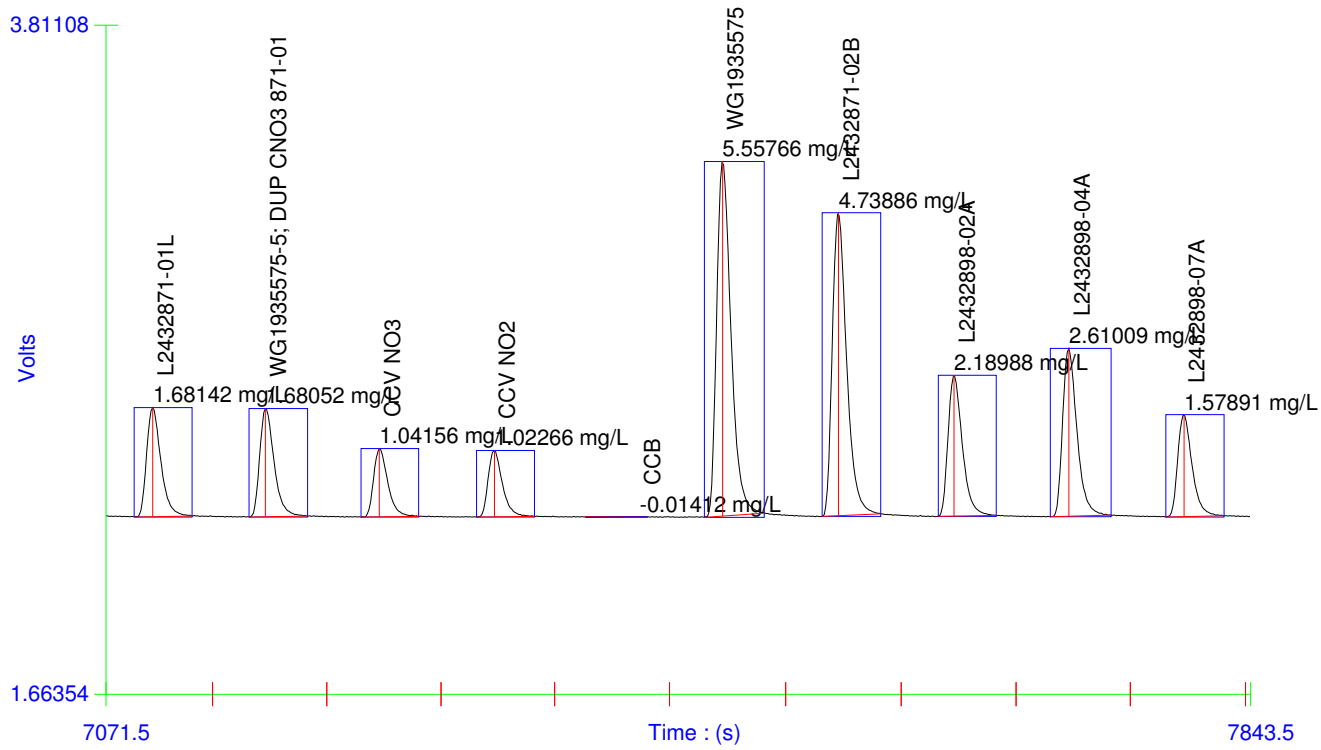

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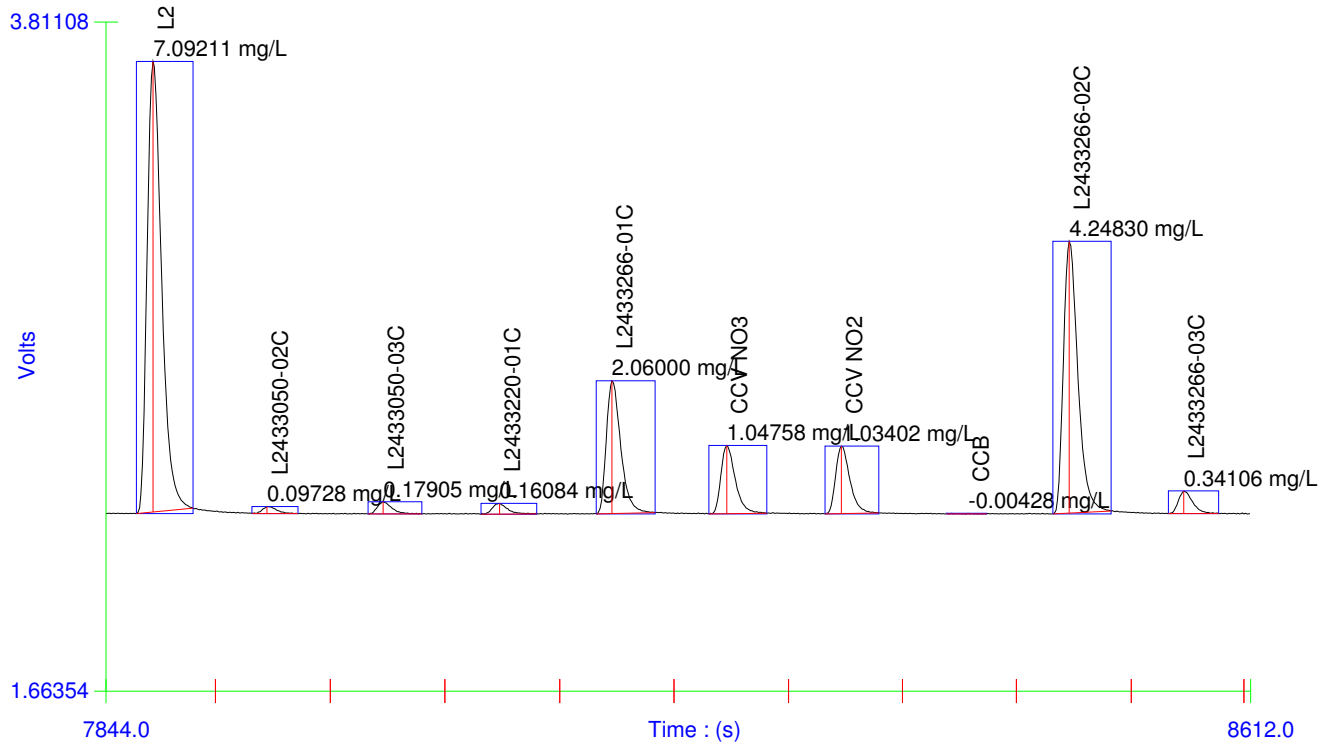

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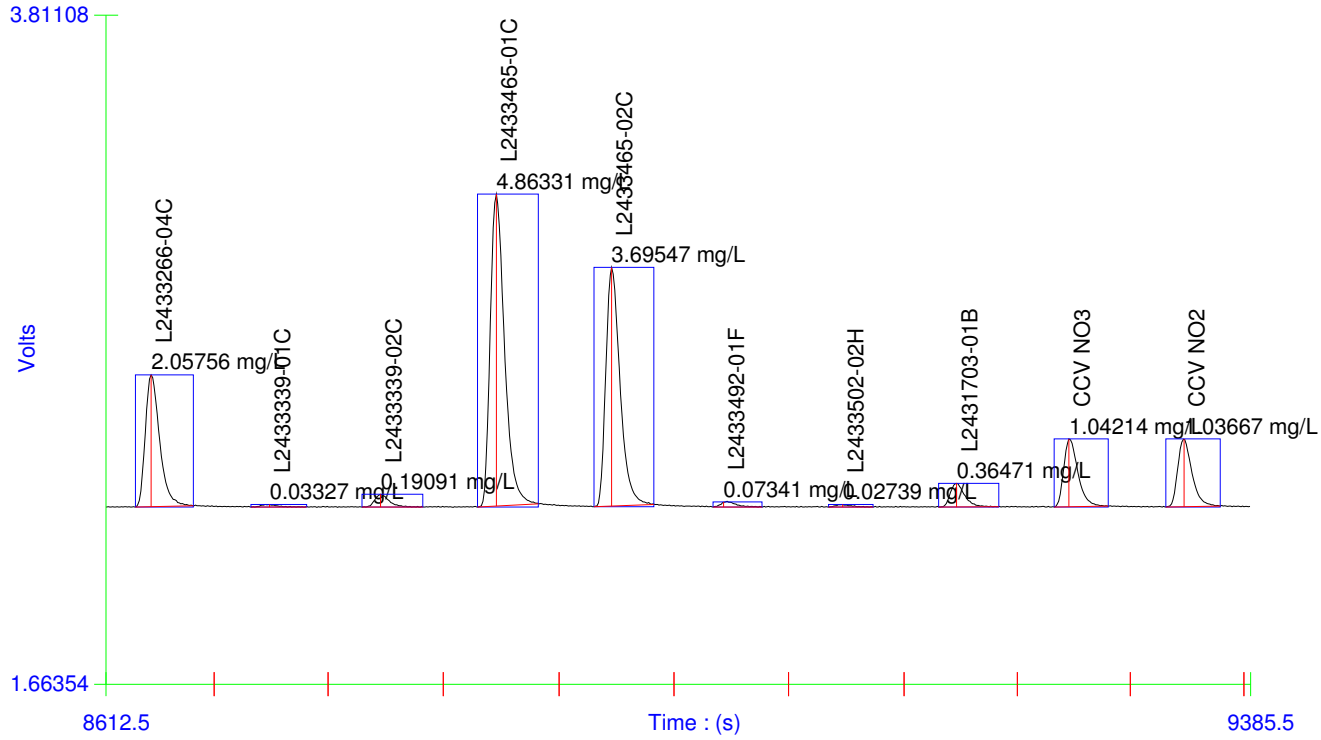
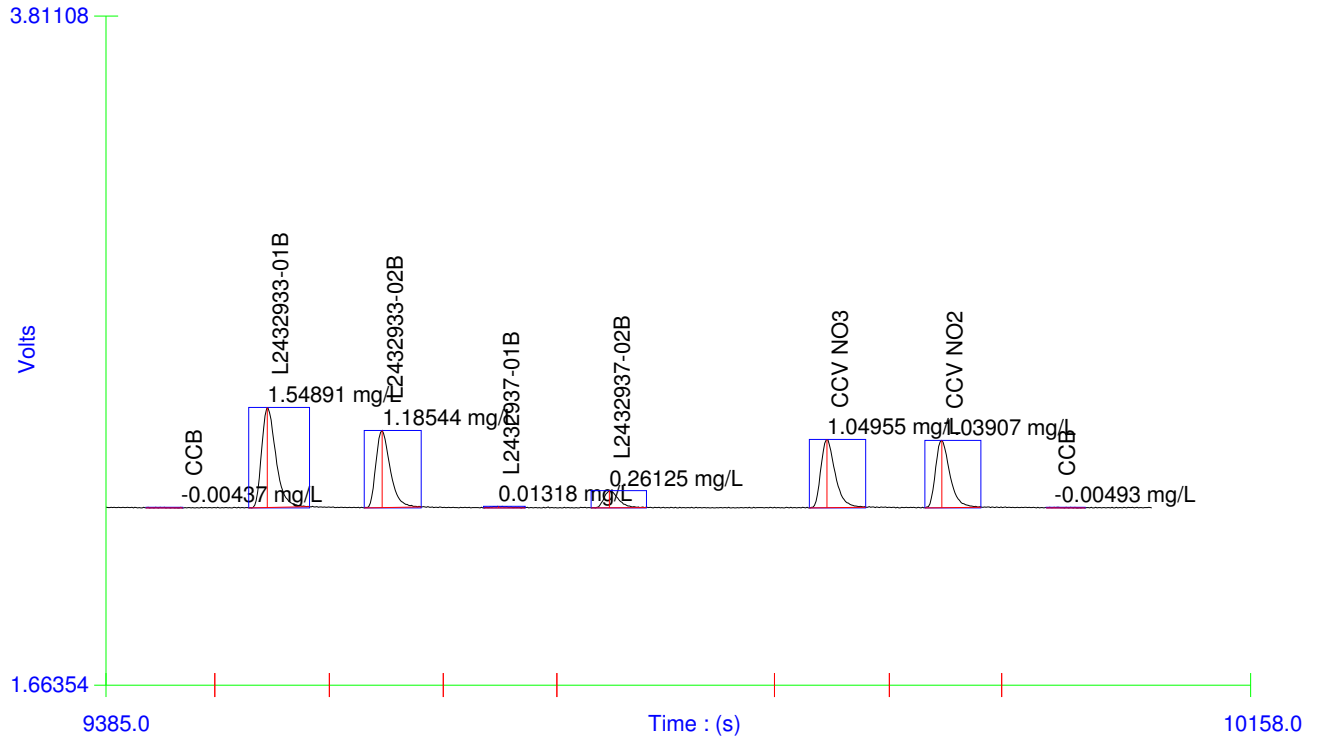


Channel 1 (NO3+NO2) - Set: 13 / 13



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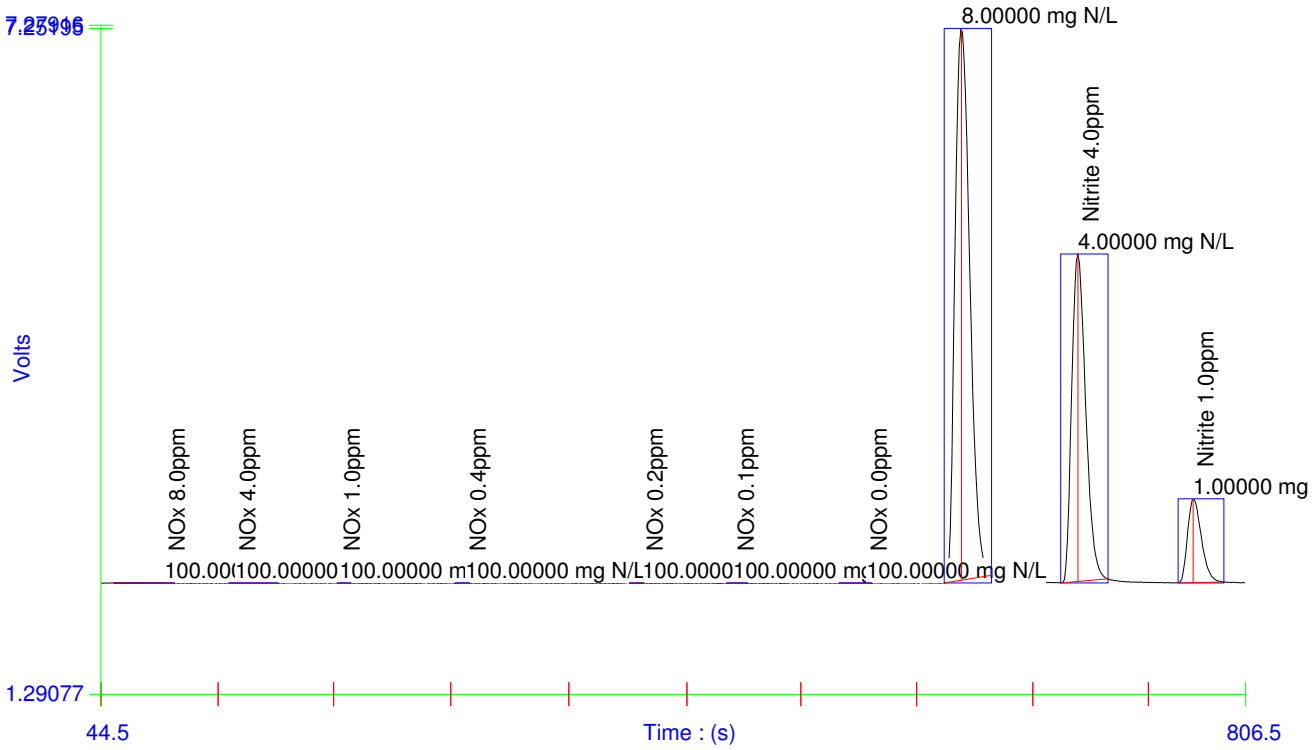

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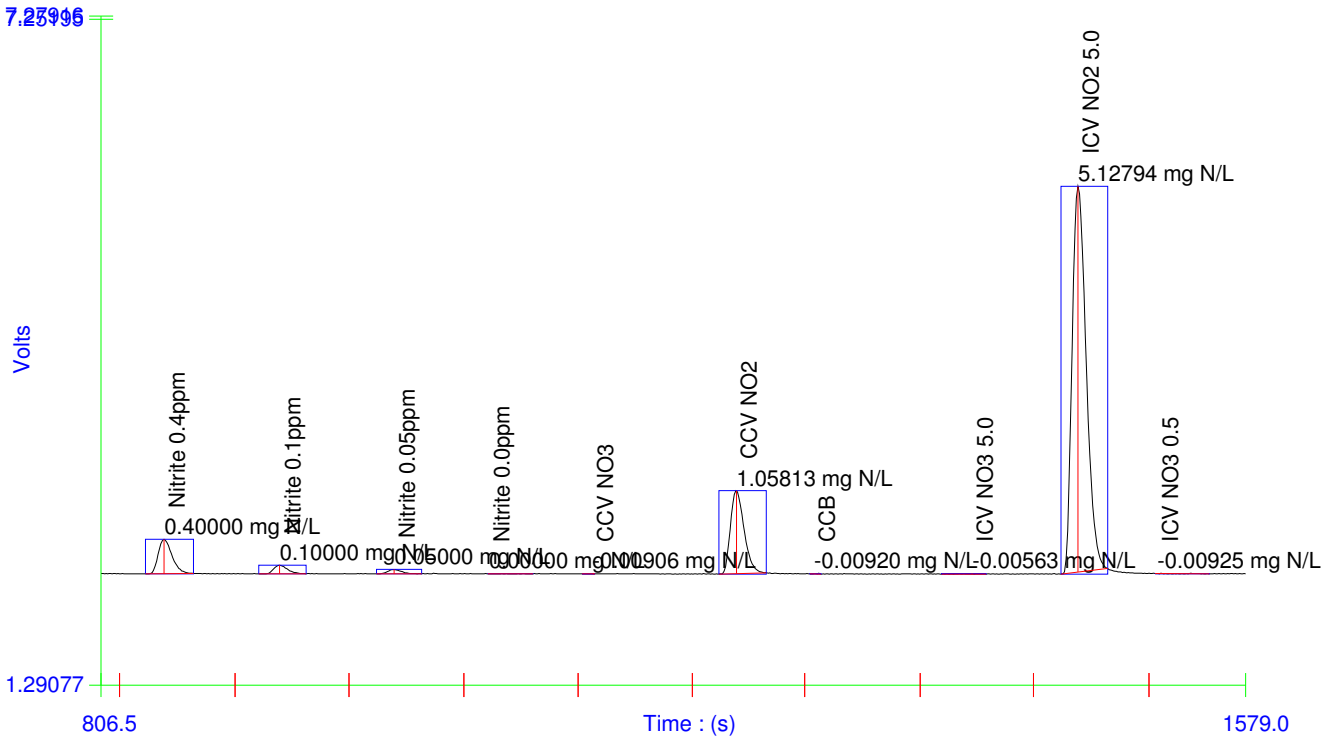

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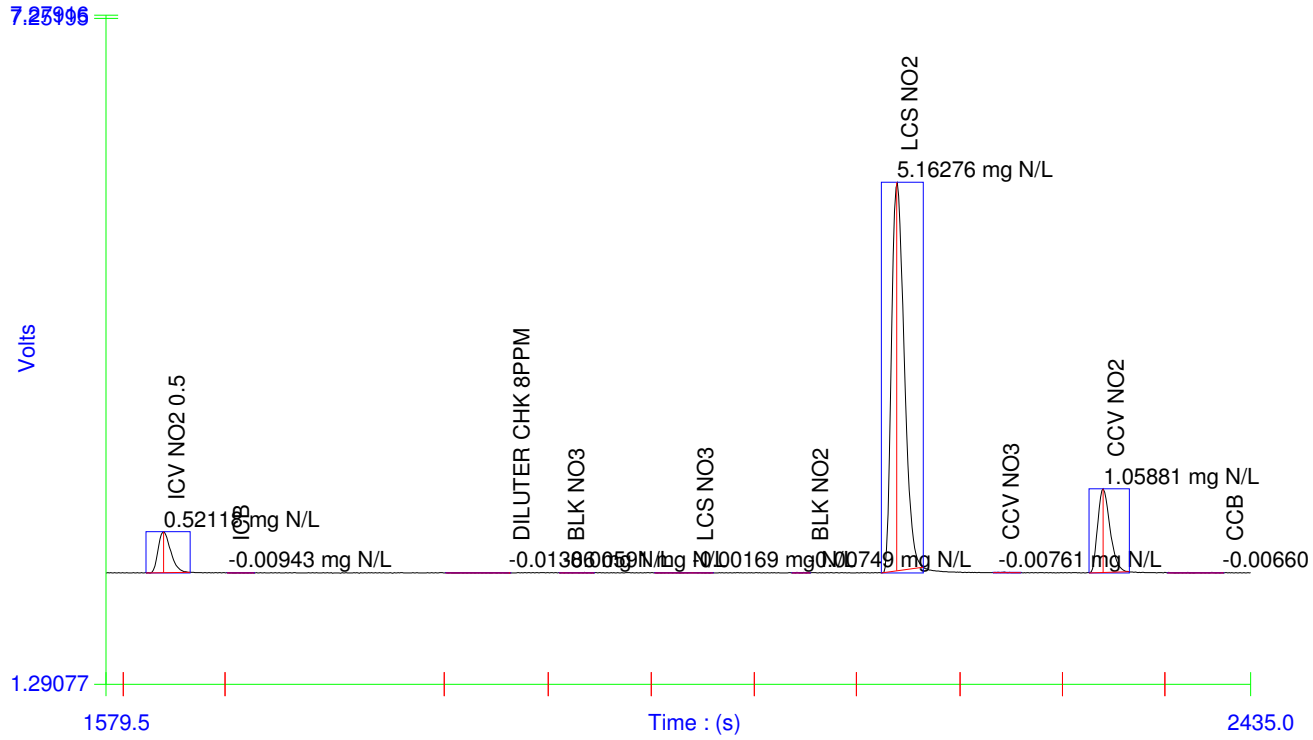

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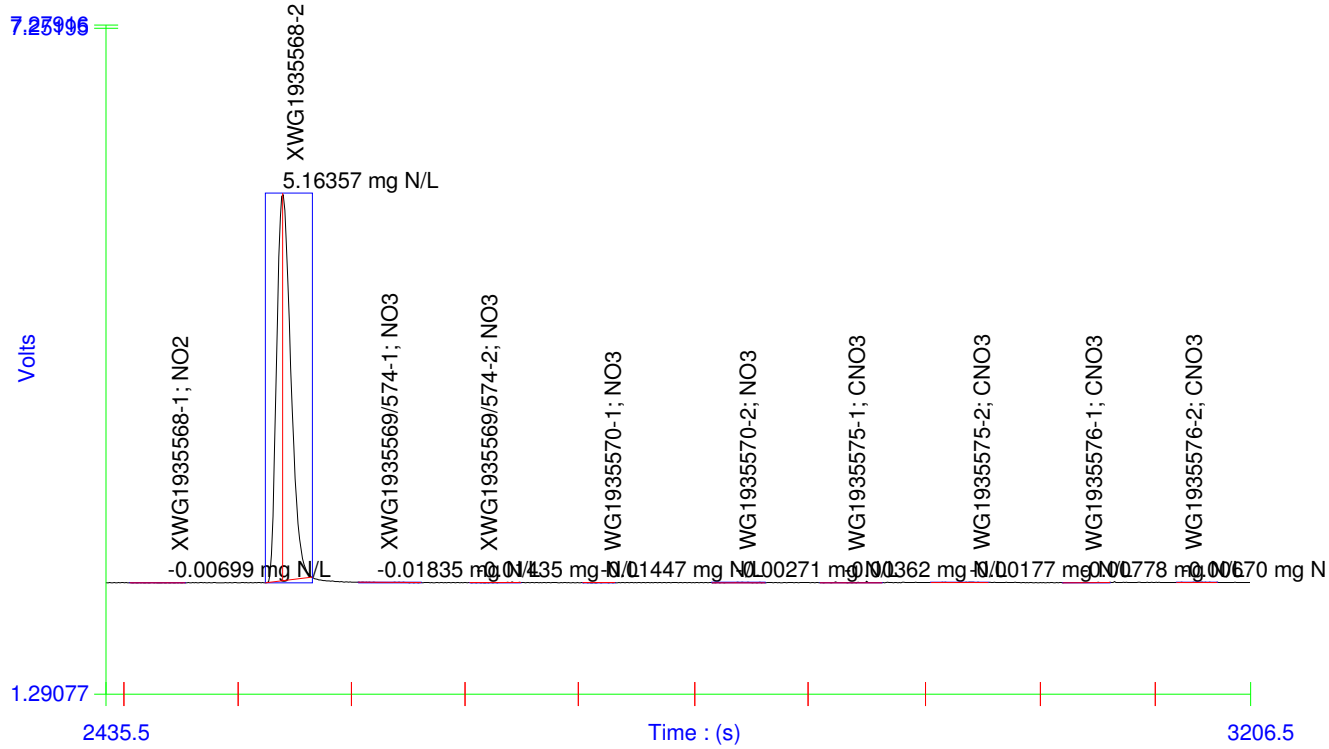

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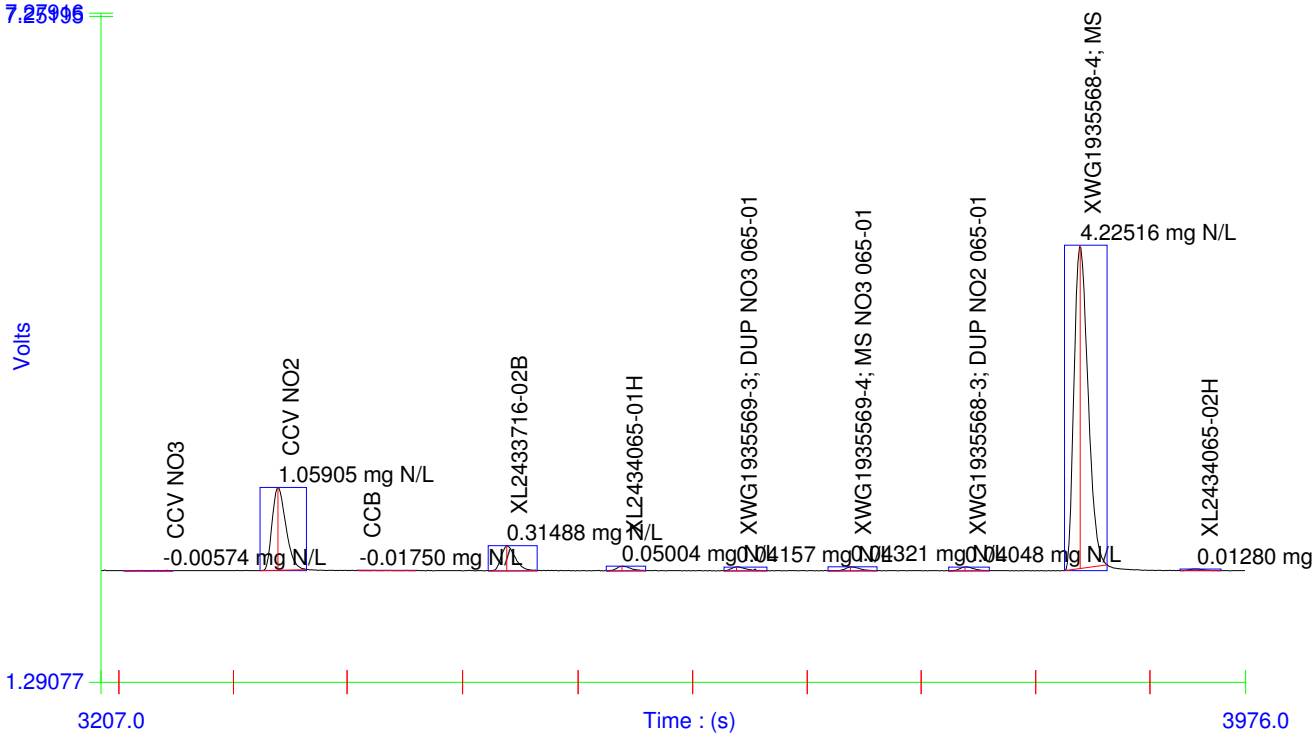

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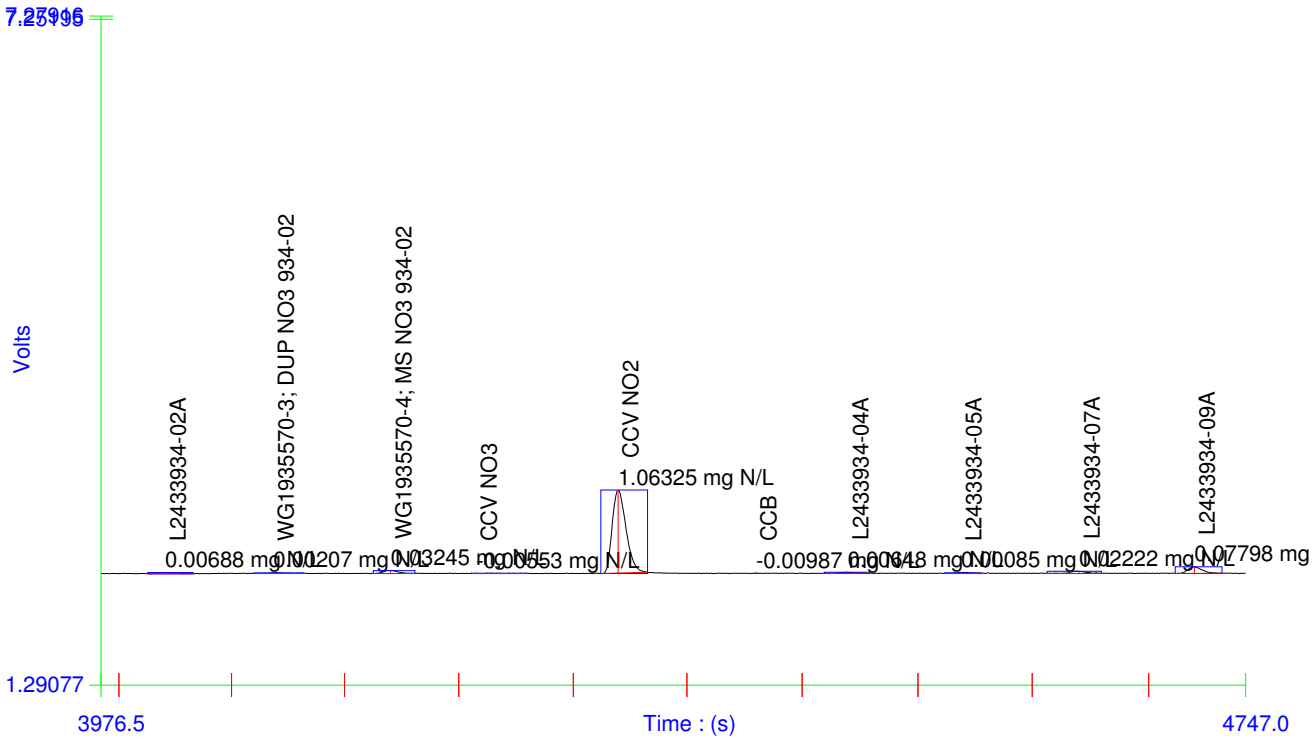
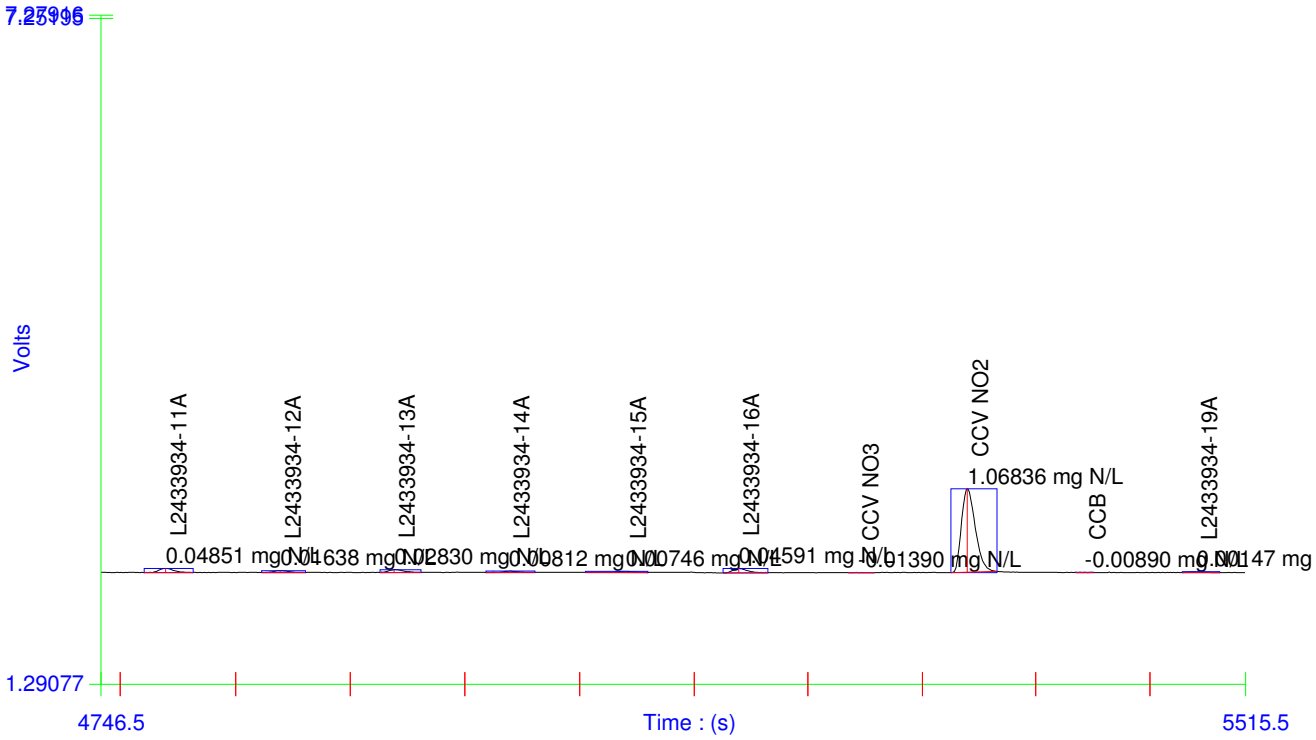
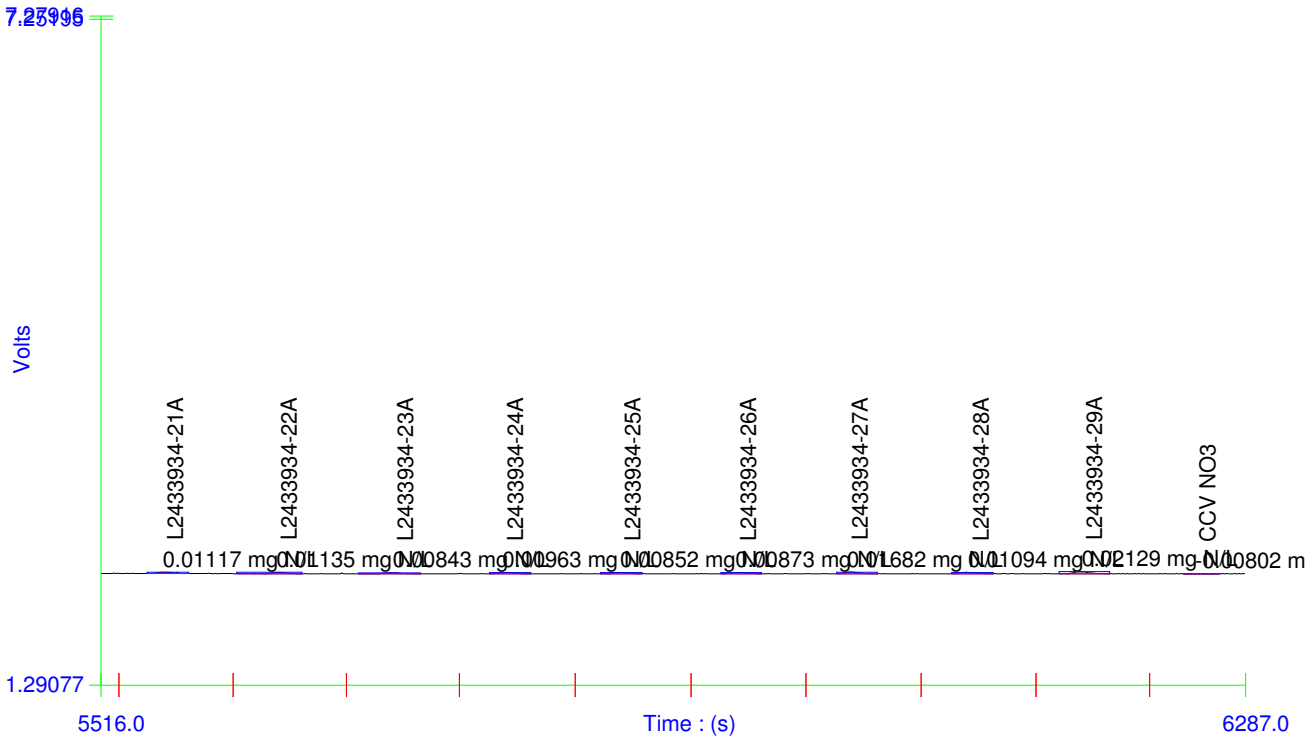


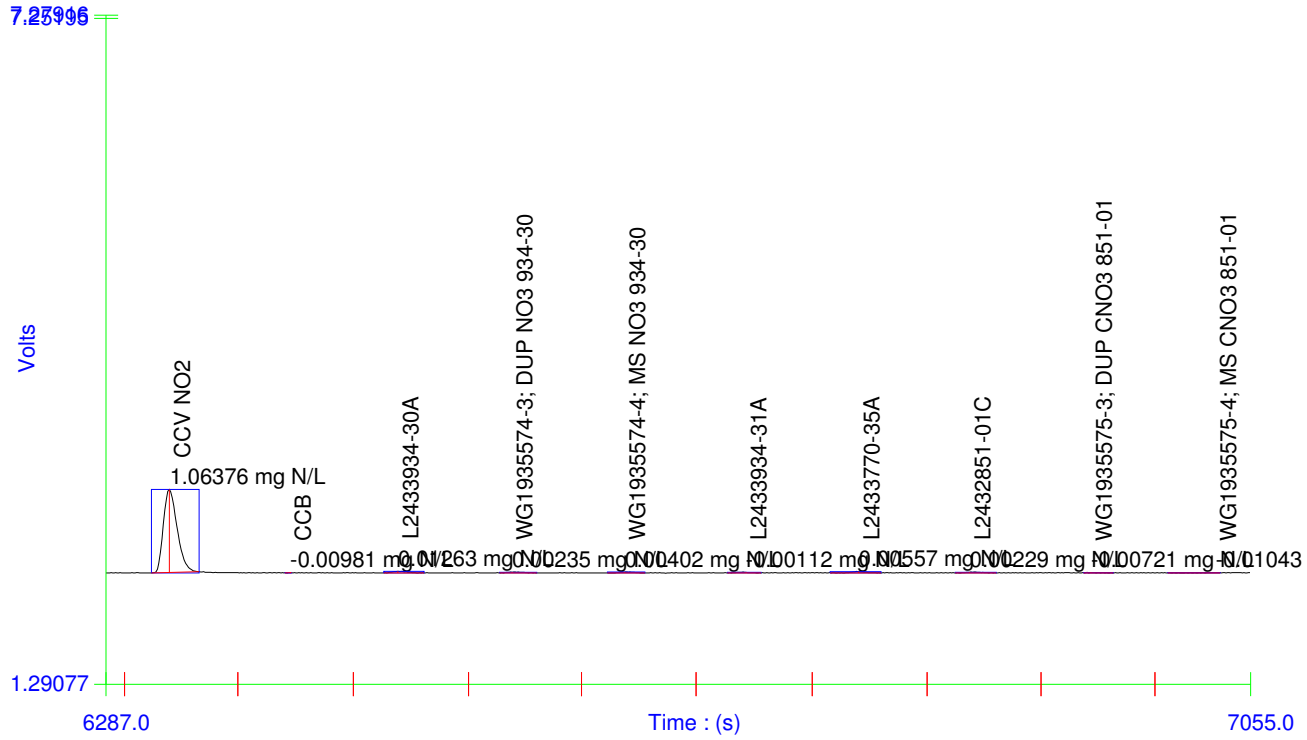
Channel 2 (NO2) - Set: 7 / 13



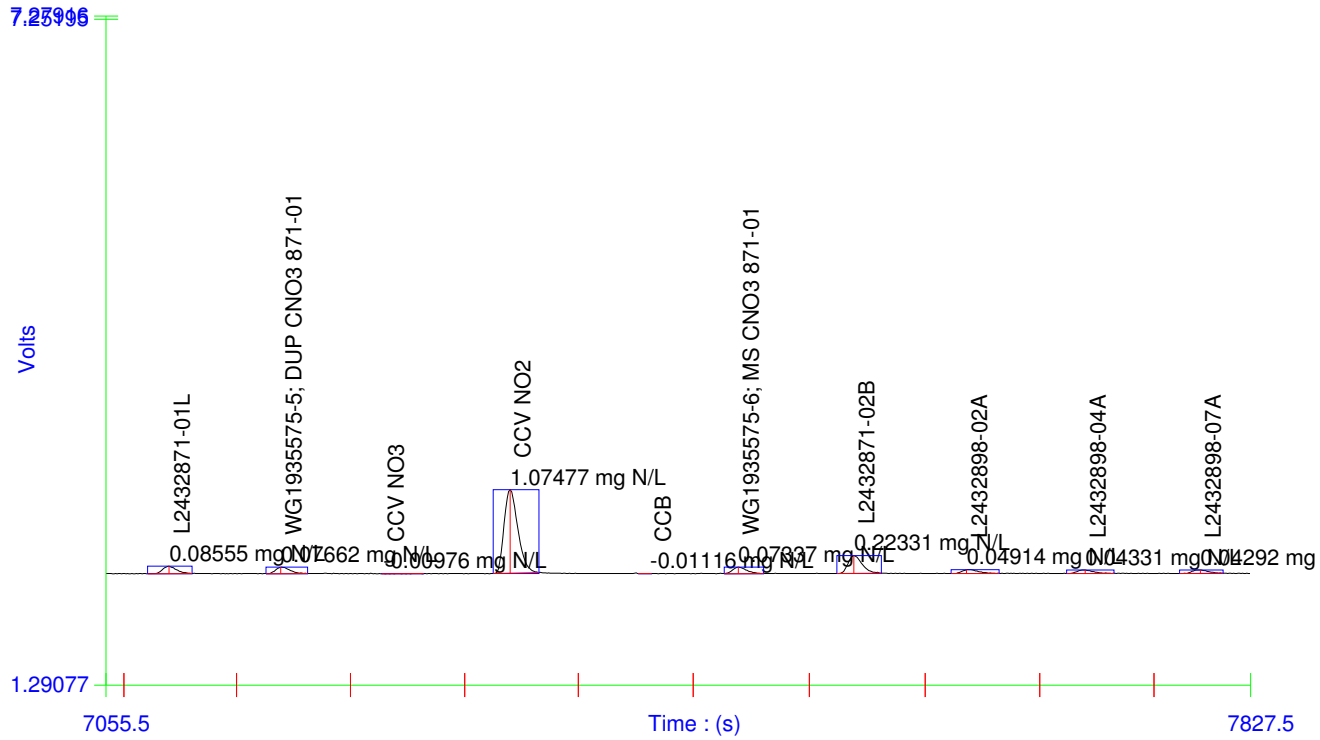
Channel 2 (NO2) - Set: 8 / 13



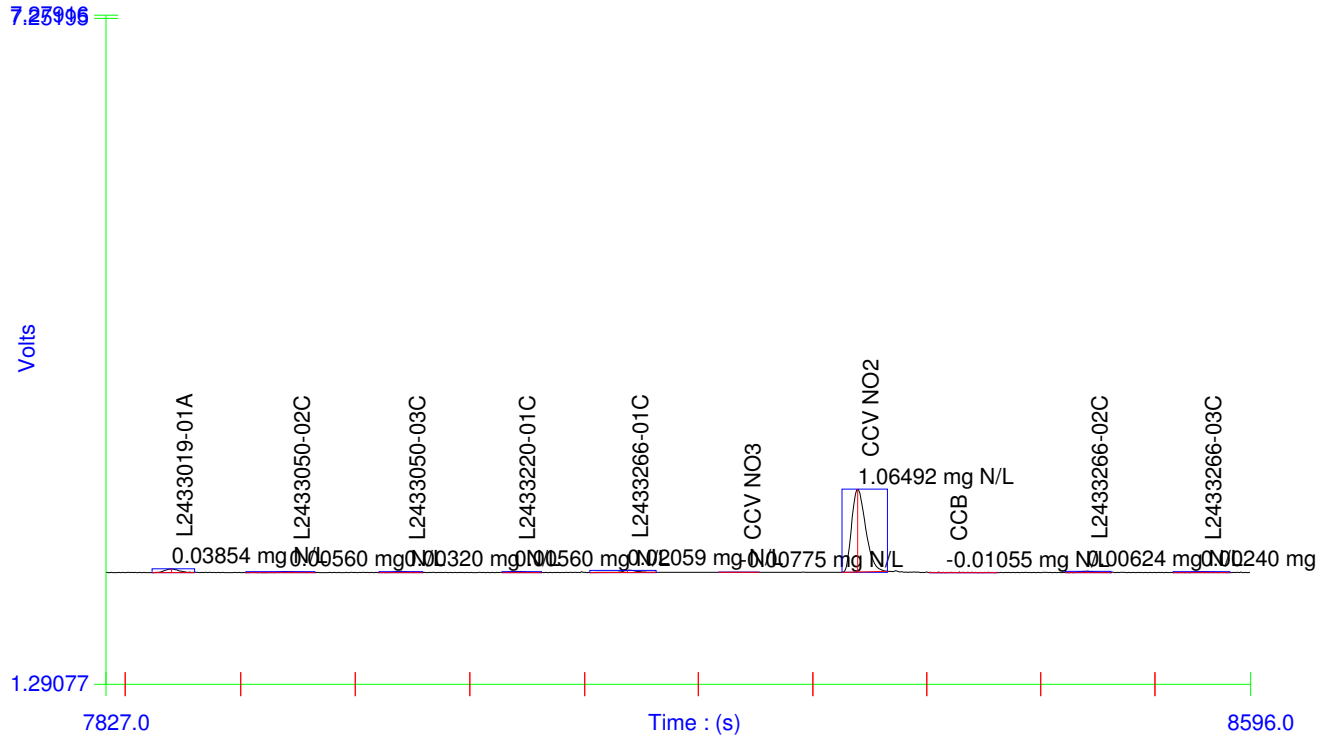
Channel 2 (NO2) - Set: 9 / 13



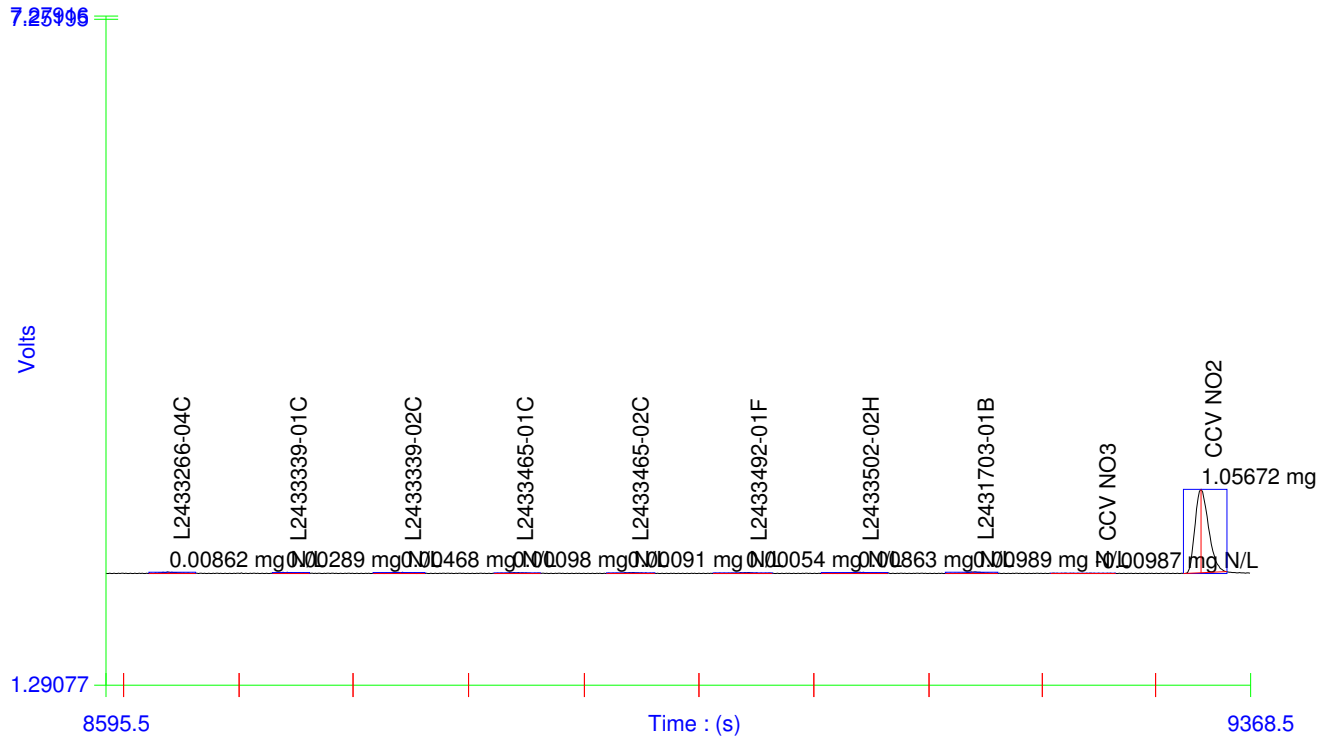
Channel 2 (NO2) - Set: 10 / 13



Channel 2 (NO2) - Set: 11 / 13



Channel 2 (NO2) - Set: 12 / 13



Channel 2 (NO2) - Set: 13 / 13

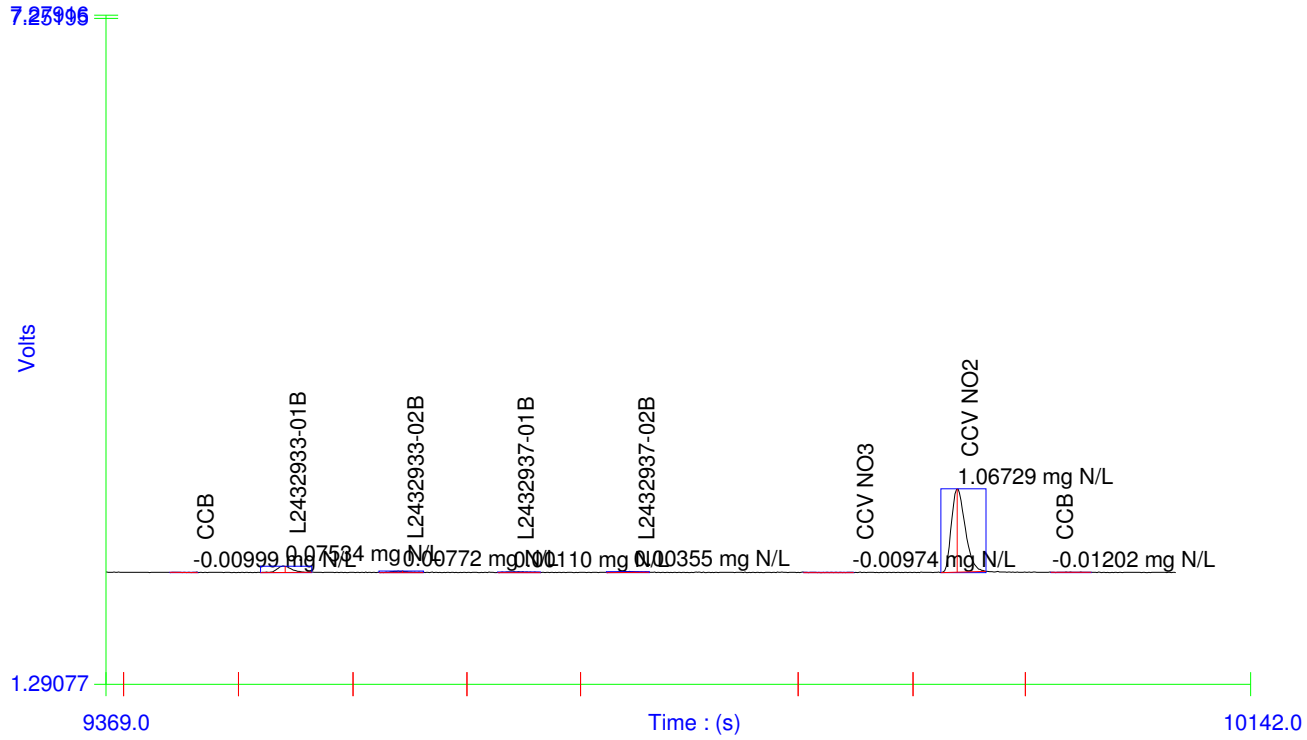


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.81810	1.58663	0.0	2.8	7.76396	6/18/2024	3:26:36 AM
2	4.00000	1	9.56133	0.86728	0.0	-4.2	4.16087	6/18/2024	3:27:54 AM
3	1.00000	1	2.37191	0.21691	0.0	-2.4	1.02354	6/18/2024	3:29:12 AM
4	0.40000	1	1.00085	0.09014	0.0	-6.2	0.42524	6/18/2024	3:30:30 AM
5	0.20000	1	0.49695	0.04508	0.0	-2.5	0.20535	6/18/2024	3:31:48 AM
6	0.10000	1	0.26218	0.02302	0.0	-2.5	0.10290	6/18/2024	3:33:07 AM
7	0.00000	1	-0.00869	0.00106			-0.01530	6/18/2024	3:34:23 AM

Figure : 1 (NO3+NO2)

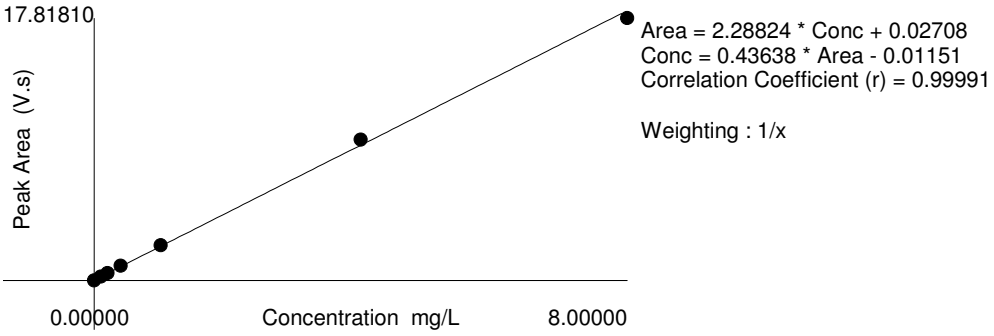
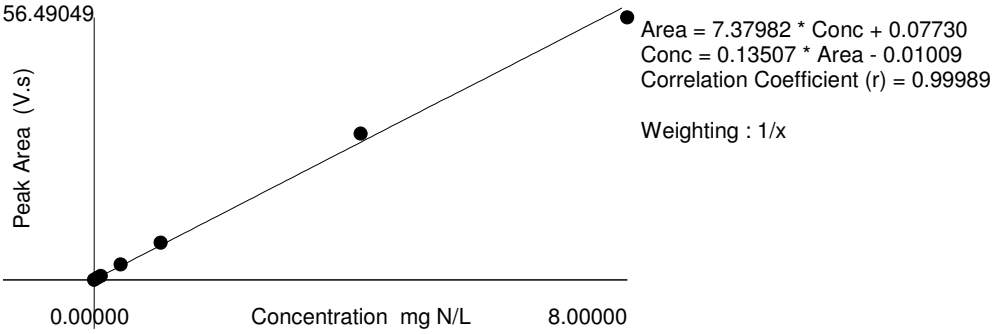


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.49049	4.93927	0.0	4.4	7.62029	6/18/2024	3:35:40 AM
2	4.00000	1	31.43263	2.92780	0.0	-6.2	4.23563	6/18/2024	3:36:58 AM
3	1.00000	1	7.96325	0.74852	0.0	-6.8	1.06554	6/18/2024	3:38:15 AM
4	0.40000	1	3.30735	0.30889	0.0	-9.2	0.43665	6/18/2024	3:39:32 AM
5	0.10000	1	0.83385	0.07769	0.0	-2.3	0.10254	6/18/2024	3:40:51 AM
6	0.05000	1	0.43278	0.03951	0.0	3.0	0.04837	6/18/2024	3:42:08 AM
7	0.00000	1	0.01491	0.00276			-0.00807	6/18/2024	3:43:25 AM

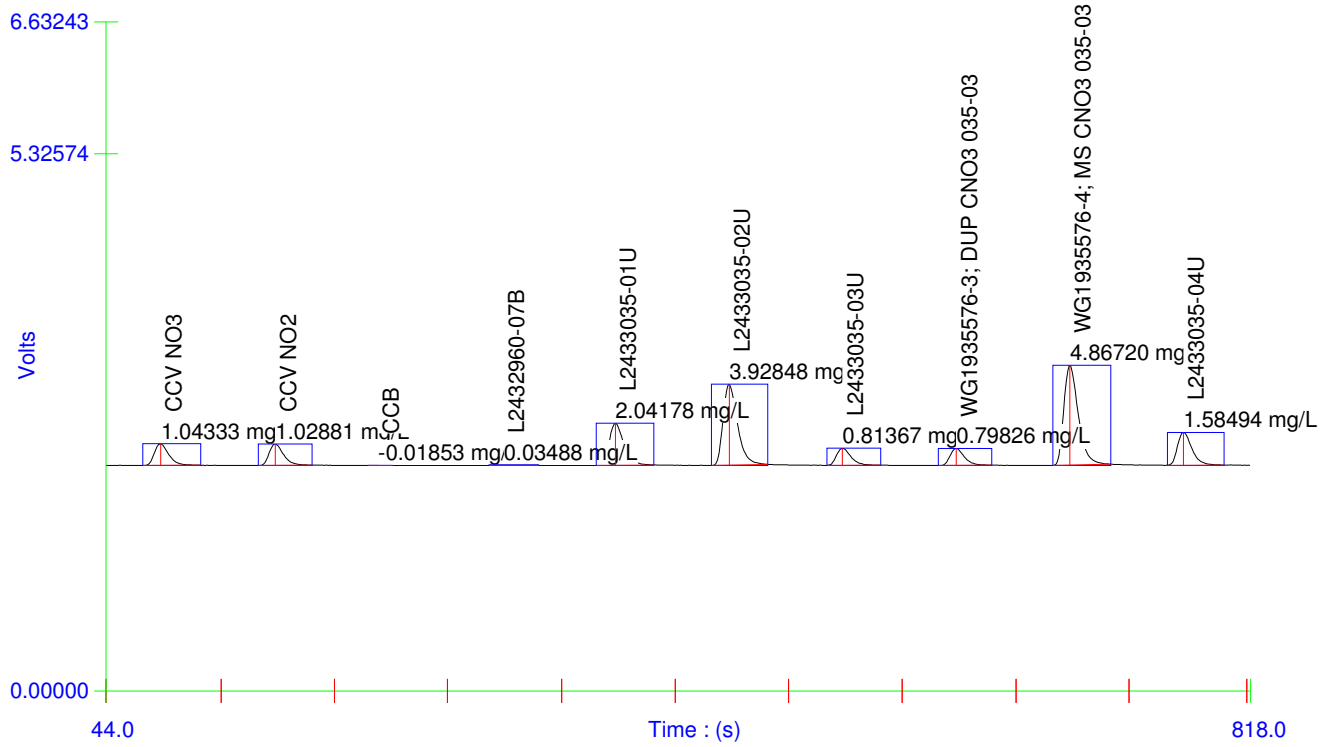
Figure : 2 (Nitrite)



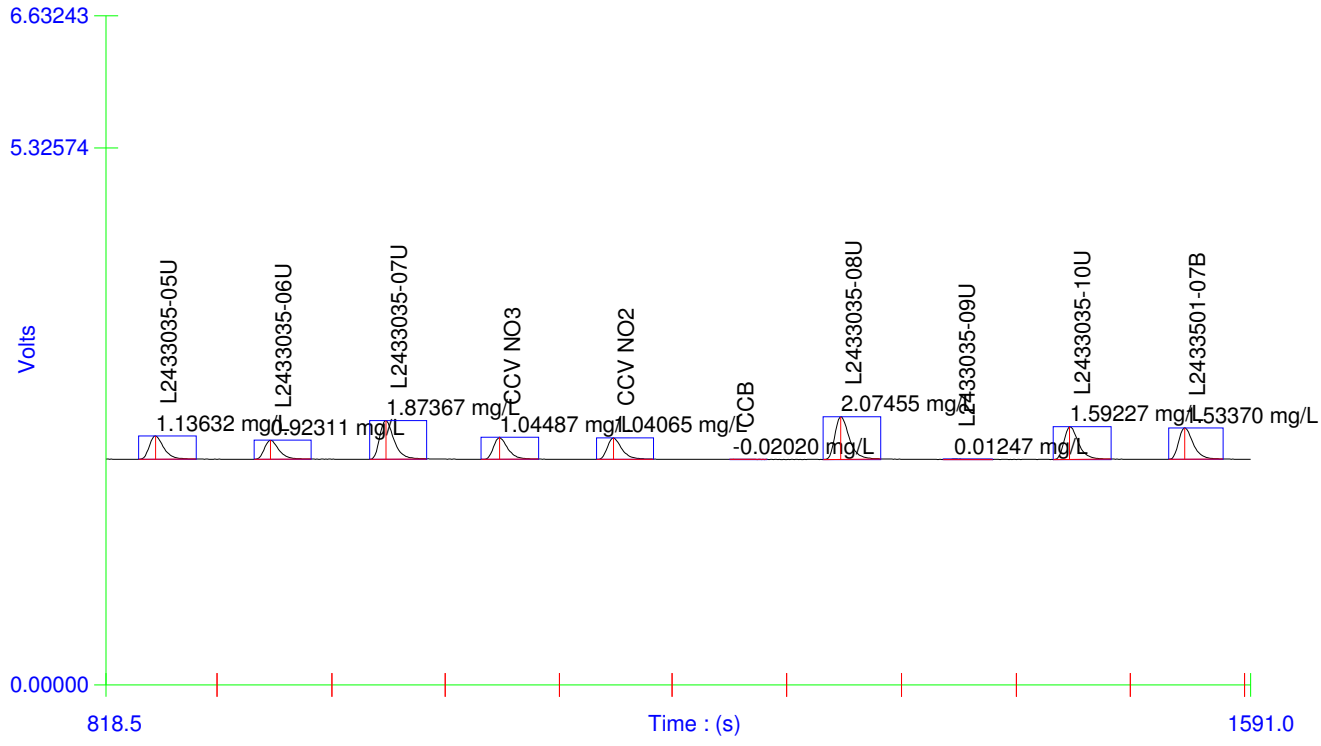
Original Run Filename: OM_6-18-2024_08-40-15AM.OMN Created: 6/18/2024 8:40:15 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-18-2024_08-40-15AM.OMN Last Modified: 6/18/2024 9:18:50 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.04333	-0.01128			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.02881	1.05719			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01853	-0.00543			
	Known Conc:		0.00000	0.00000			
L2432960-07B	1	85	0.03488	0.01586			
L2433035-01U	1	86	2.04178	0.00285			
L2433035-02U	1	87	3.92848	0.00543			
L2433035-03U	1	88	0.81367	0.00385			
WG1935576-3; DUP CNO3 035-03	1	89	0.79826	-0.00724			
WG1935576-4; MS CNO3 035-03	1	90	4.86720	-0.01121			
L2433035-04U	1	91	1.58494	0.00105			
L2433035-05U	1	92	1.13632	-0.00031			
L2433035-06U	1	93	0.92311	0.00163			
L2433035-07U	1	94	1.87367	0.00219			
CCV NO3	1	S2	1.04487	-0.01120			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04065	1.06861			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.02020	-0.01409			
	Known Conc:		0.00000	0.00000			
L2433035-08U	1	95	2.07455	0.00123			
L2433035-09U	1	96	0.01247	0.00164			
L2433035-10U	1	97	1.59227	0.00198			
L2433501-07B	1	98	1.53370	0.00274			
L2433654-02A	1	99	0.03015	0.00125			
L2433656-02A	1	100	0.00690	-0.00080			
L2433725-07B	1	101	0.12195	0.02064			
L2433940-01I	1	102	16.76307	0.01938			
CCV NO3	1	S2	1.05025	-0.01216			
	Known Conc:		1.00000	0.00000			
CCV NO3	1	S2	1.04670	-0.00935			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04083	1.05892			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00385	-0.01101			
	Known Conc:		0.00000	0.00000			

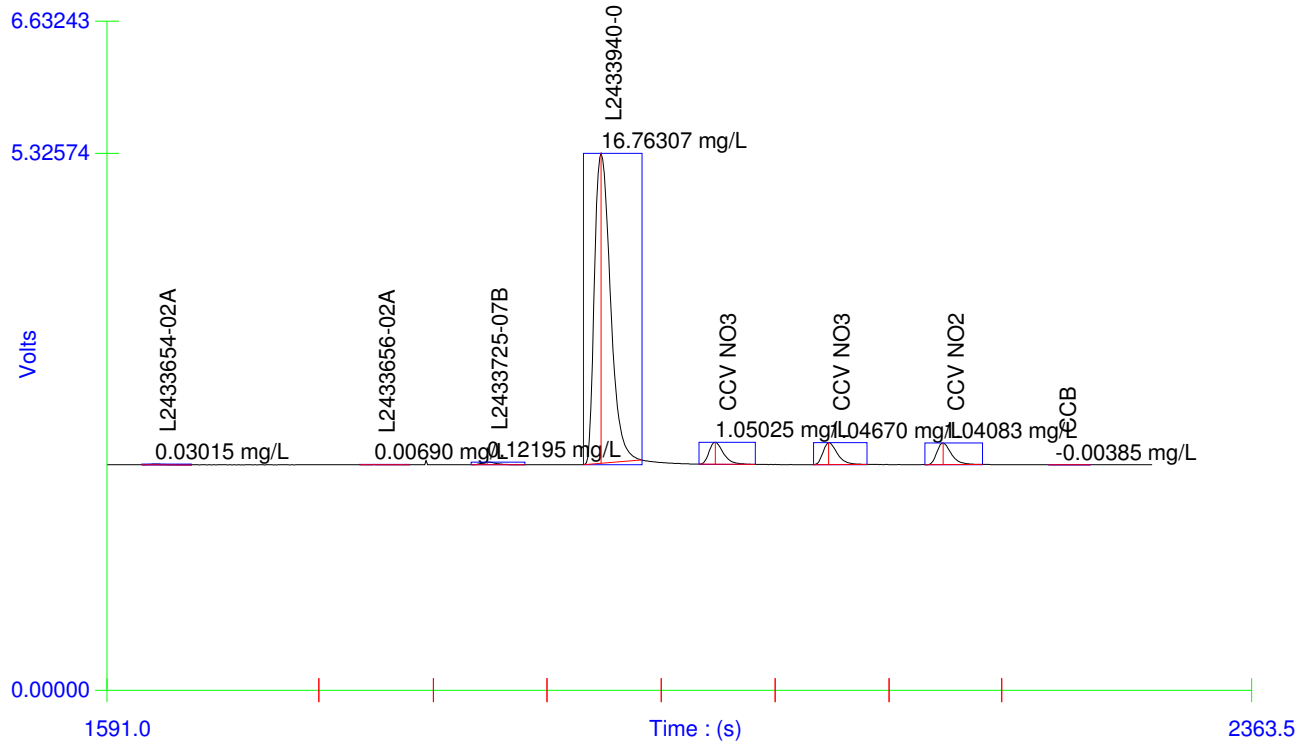
Channel 1 (NO3+NO2) - Set: 1 / 3



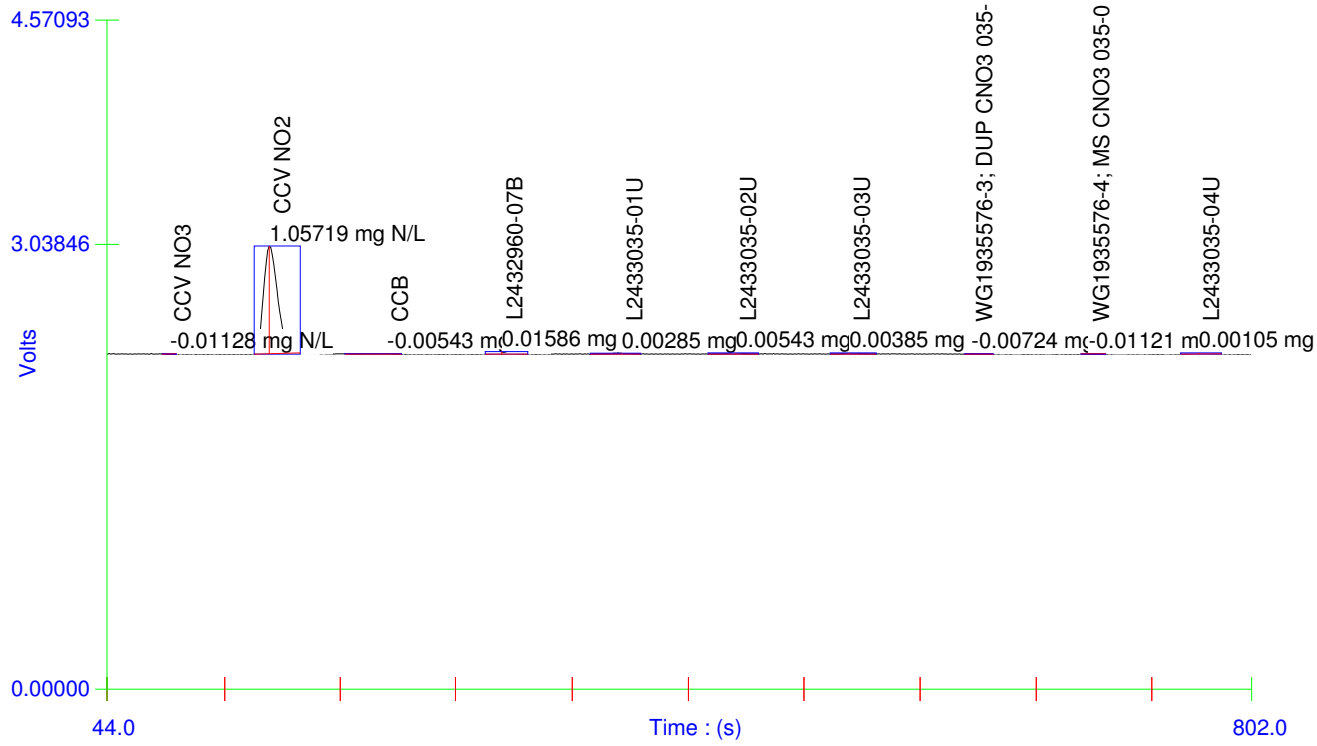
Channel 1 (NO3+NO2) - Set: 2 / 3



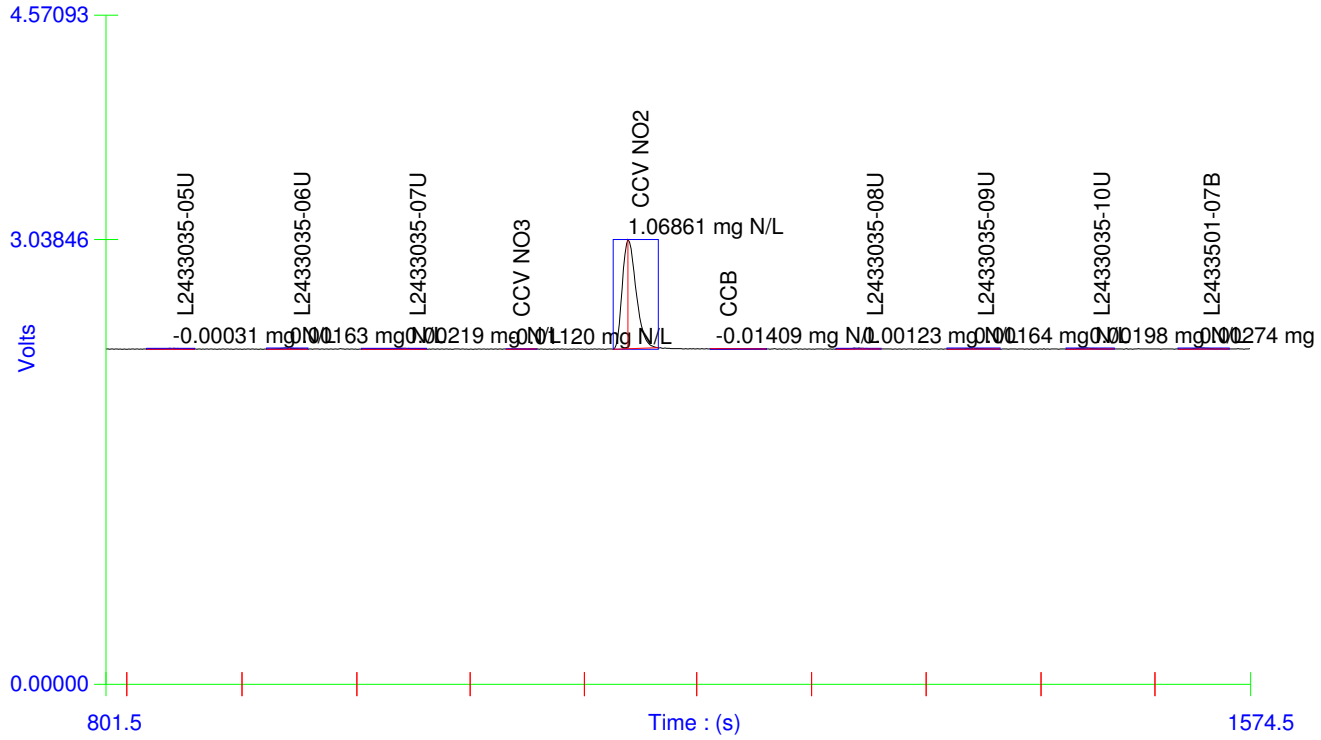
Channel 1 (NO3+NO2) - Set: 3 / 3



Channel 2 (NO2) - Set: 1 / 3



Channel 2 (NO2) - Set: 2 / 3



Channel 2 (NO2) - Set: 3 / 3

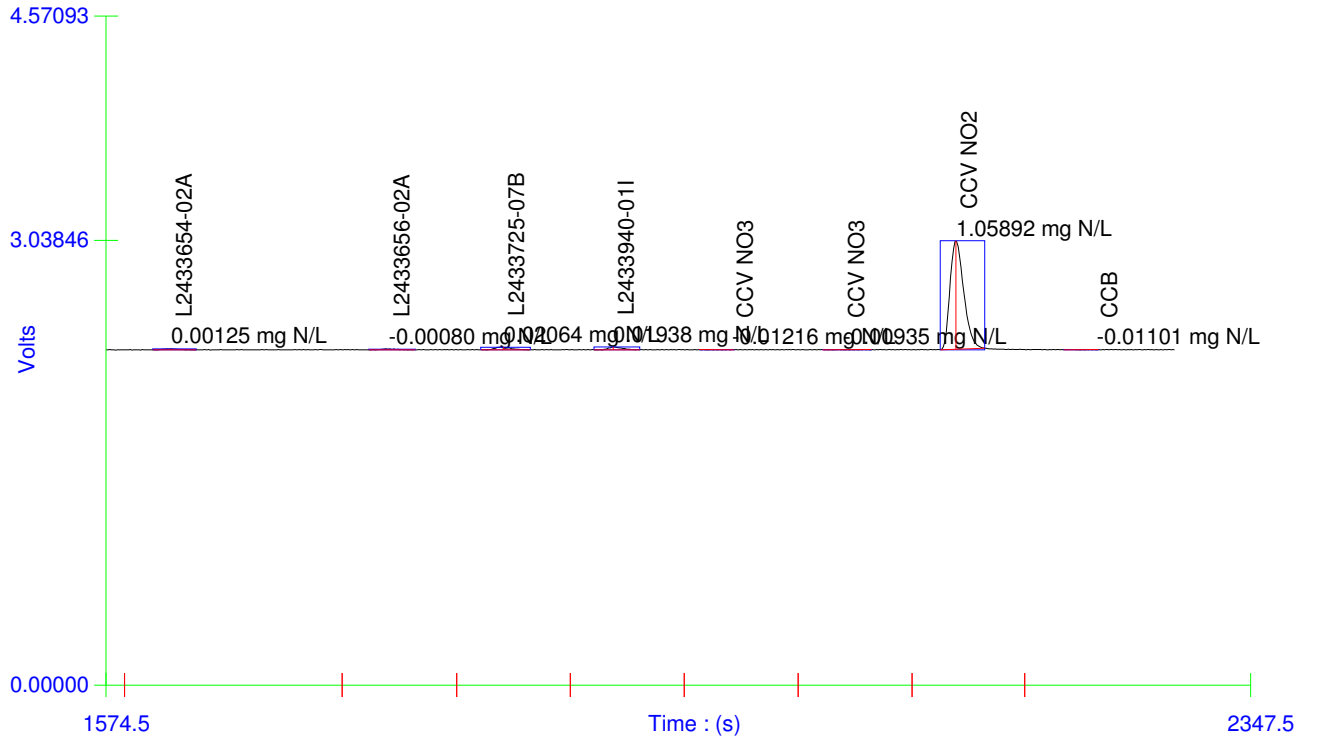
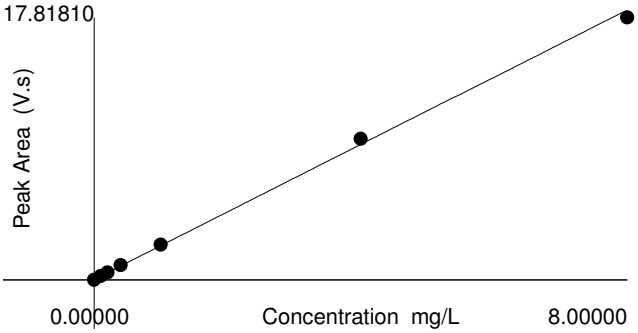


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.81810	1.58663	0.0	2.8	7.76396	6/18/2024	3:26:36 AM
2	4.00000	1	9.56133	0.86728	0.0	-4.2	4.16087	6/18/2024	3:27:54 AM
3	1.00000	1	2.37191	0.21691	0.0	-2.4	1.02354	6/18/2024	3:29:12 AM
4	0.40000	1	1.00085	0.09014	0.0	-6.2	0.42524	6/18/2024	3:30:30 AM
5	0.20000	1	0.49695	0.04508	0.0	-2.5	0.20535	6/18/2024	3:31:48 AM
6	0.10000	1	0.26218	0.02302	0.0	-2.5	0.10290	6/18/2024	3:33:07 AM
7	0.00000	1	-0.00869	0.00106			-0.01530	6/18/2024	3:34:23 AM

Figure : 1 (NO3+NO2)



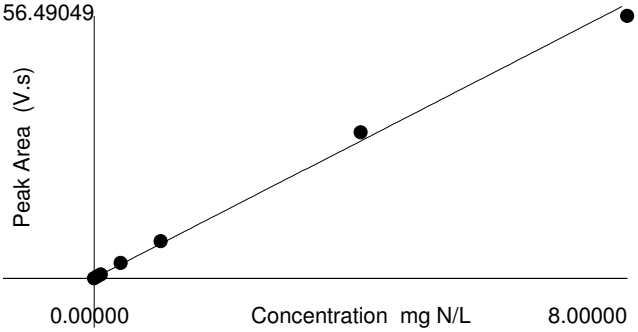
Area = 2.28824 * Conc + 0.02708
Conc = 0.43638 * Area - 0.01151
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.49049	4.93927	0.0	4.4	7.62029	6/18/2024	3:35:40 AM
2	4.00000	1	31.43263	2.92780	0.0	-6.2	4.23563	6/18/2024	3:36:58 AM
3	1.00000	1	7.96325	0.74852	0.0	-6.8	1.06554	6/18/2024	3:38:15 AM
4	0.40000	1	3.30735	0.30889	0.0	-9.2	0.43665	6/18/2024	3:39:32 AM
5	0.10000	1	0.83385	0.07769	0.0	-2.3	0.10254	6/18/2024	3:40:51 AM
6	0.05000	1	0.43278	0.03951	0.0	3.0	0.04837	6/18/2024	3:42:08 AM
7	0.00000	1	0.01491	0.00276			-0.00807	6/18/2024	3:43:25 AM

Figure : 2 (Nitrite)



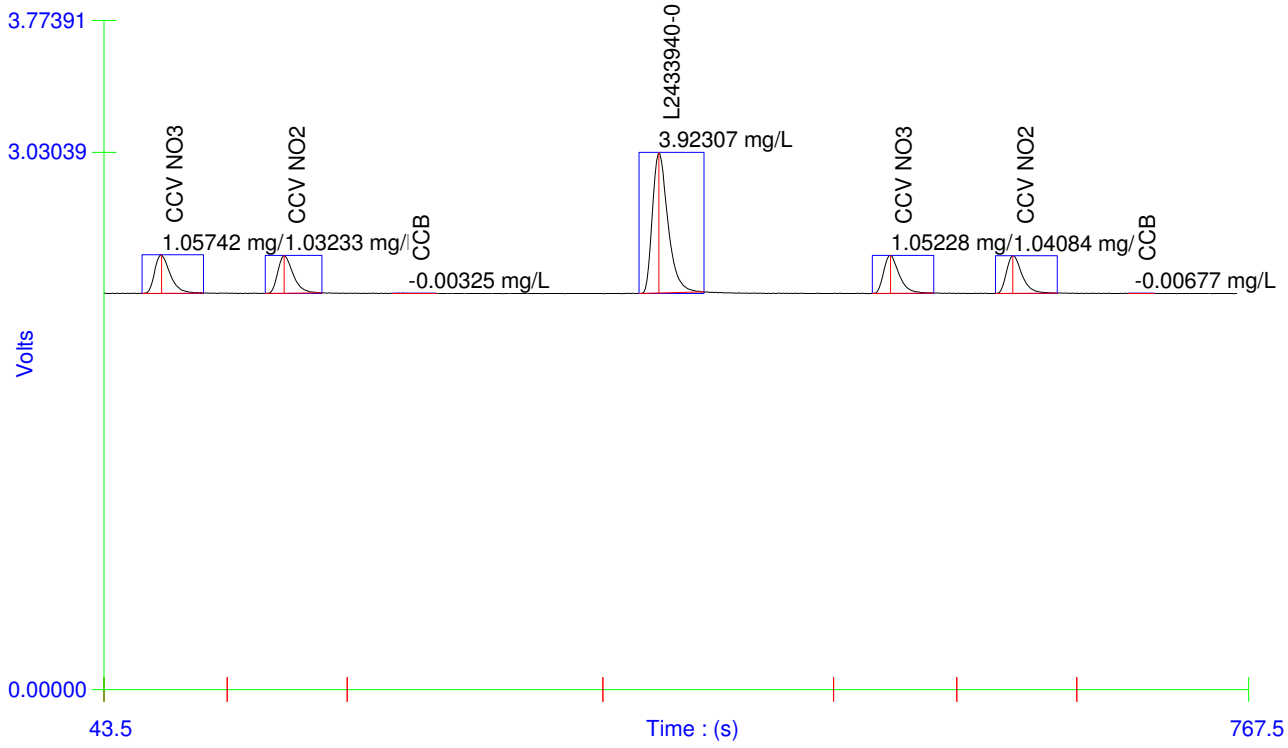
Area = 7.37982 * Conc + 0.07730
Conc = 0.13507 * Area - 0.01009
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

Original Run Filename: OM_6-18-2024_09-41-14AM.OMN Created: 6/18/2024 9:41:14 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-18-2024_09-41-14AM.OMN Last Modified: 6/18/2024 9:54:09 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.05742	-0.00677			
Known Conc:			1.00000	0.00000			
Calibration:				Table/Fig. : 1			
CCV NO2	1	S9	1.03233	1.05735			
Known Conc:			0.00000	1.00000			
Calibration:			Table/Fig. : 2				
CCB	1	S1	-0.00325	-0.00627			
Known Conc:			0.00000	0.00000			
L2433940-01I	1	102	19.61533	-0.00234	5.00		
CCV NO3	1	S2	1.05228	-0.00523			
Known Conc:			1.00000	0.00000			
CCV NO2	1	S9	1.04084	1.06564			
Known Conc:			0.00000	1.00000			
CCB	1	S1	-0.00677	-0.00664			
Known Conc:			0.00000	0.00000			

Channel 1 (NO3+NO2) - Set: 1 / 1



Channel 2 (NO2) - Set: 1 / 1

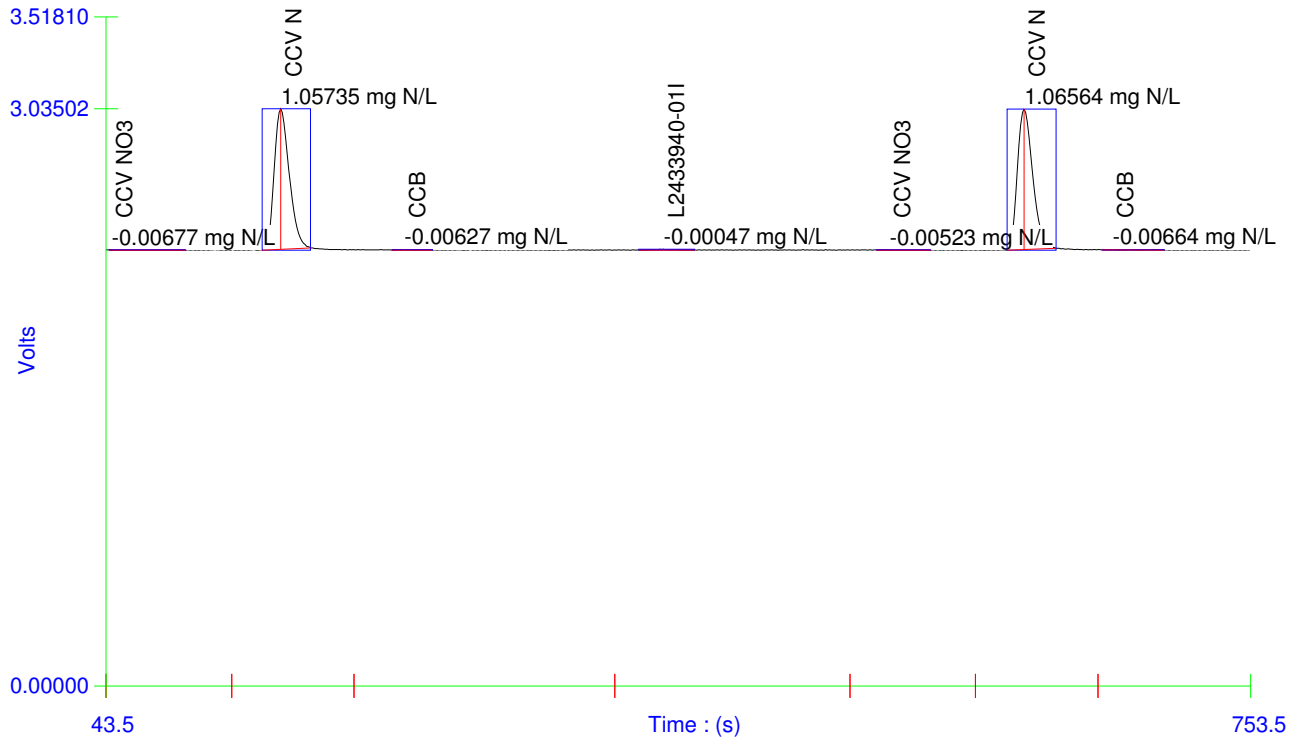
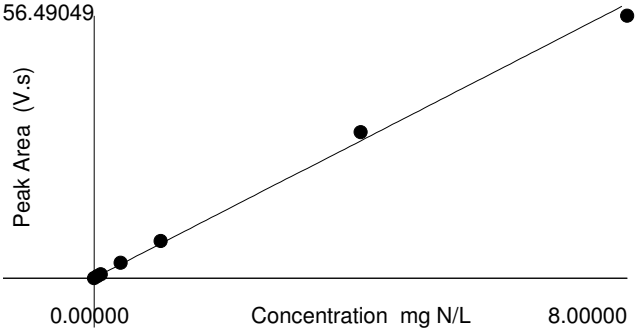


Table : 1 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.49049	4.93927	0.0	4.4	7.62029	6/18/2024	3:35:40 AM
2	4.00000	1	31.43263	2.92780	0.0	-6.2	4.23563	6/18/2024	3:36:58 AM
3	1.00000	1	7.96325	0.74852	0.0	-6.8	1.06554	6/18/2024	3:38:15 AM
4	0.40000	1	3.30735	0.30889	0.0	-9.2	0.43665	6/18/2024	3:39:32 AM
5	0.10000	1	0.83385	0.07769	0.0	-2.3	0.10254	6/18/2024	3:40:51 AM
6	0.05000	1	0.43278	0.03951	0.0	3.0	0.04837	6/18/2024	3:42:08 AM
7	0.00000	1	0.01491	0.00276			-0.00807	6/18/2024	3:43:25 AM

Figure : 1 (Nitrite)



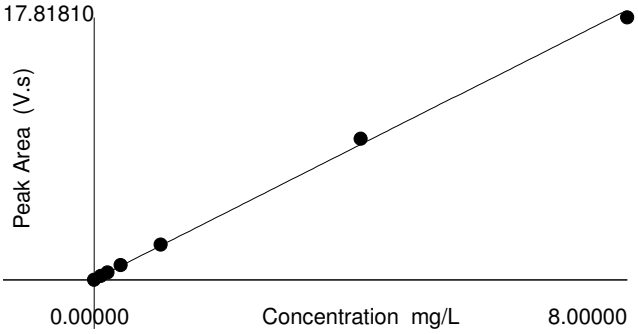
Area = 7.37982 * Conc + 0.07730
Conc = 0.13507 * Area - 0.01009
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

Table : 2 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.81810	1.58663	0.0	2.8	7.76396	6/18/2024	3:26:36 AM
2	4.00000	1	9.56133	0.86728	0.0	-4.2	4.16087	6/18/2024	3:27:54 AM
3	1.00000	1	2.37191	0.21691	0.0	-2.4	1.02354	6/18/2024	3:29:12 AM
4	0.40000	1	1.00085	0.09014	0.0	-6.2	0.42524	6/18/2024	3:30:30 AM
5	0.20000	1	0.49695	0.04508	0.0	-2.5	0.20535	6/18/2024	3:31:48 AM
6	0.10000	1	0.26218	0.02302	0.0	-2.5	0.10290	6/18/2024	3:33:07 AM
7	0.00000	1	-0.00869	0.00106			-0.01530	6/18/2024	3:34:23 AM

Figure : 2 (NO3+NO2)



Area = 2.28824 * Conc + 0.02708
Conc = 0.43638 * Area - 0.01151
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935576-4	**MS Analysis Date**	: 06/18/24 08:51
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	0.81	4	4.9	102					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 08:48
Dup Sample ID	: WG1935576-3	**DUP Analysis Date**	: 06/18/24 08:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.81	0.80	1	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935576-2	**LCS Analysis Date**	: 06/18/24 04:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.00**	**100.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 061824

Initals: KAF

Syringe Lot: 20230620

Filter Lot: 18048470A

Cup #:	Sample ID:	Comments:
1	**ICV NO3 5**	*Buffer: NO3NO2_061424_BUFFER*
2	**ICV NO2 5**	*Color: NO3NO2_060724_COLOR*
3	**ICV NO3 0.5**	*NO3 MS: NO3_061224_200PPM_CAL*
4	**ICV NO2 0.5**	*NO2 MS: NO2_060424_200PPM_CAL*
5	**ICB**	*ICV NO3 5: NO3_061424_5PPM_ICV*
6	**5X DILUTER CHECK**	*ICV NO2 5: NO2_061424_5PPM_ICV*
7	**BLANK NO3**	*ICV NO3 0.5: NO3_061824_0.5PPM_ICV*
8	**LCS NO3**	*ICV NO2 0.5: NO2_061824_0.5PPM_ICV*
9	**BLANK NO2**	
10	**LCS NO2**	
11	**WG1935568-1; NO2**	*OOH*
12	**WG1935568-2; NO2**	*DW*
13	**WG1935569/574-1; NO3**	*GOING OOH*
14	**WG1935569/574-2; NO3**	**FIELD BLANK**
15	**WG1935570-1; NO3**	
16	**WG1935570-2; NO3**	
17	**WG1935575-1; CNO3**	
18	**WG1935575-2; CNO3**	
19	**WG1935576-1; CNO3**	
20	**WG1935576-2; CNO3**	
21	**L2433716-02**	FIA
22	**L2434065-01**	FIA
23	**WG1935569-3; NO3**	FIA
24	**WG1935569-4; NO3**	FIA
25	**WG1935568-3; NO2**	FIA
26	**WG1935568-4; NO2**	FIA
27	**L2434065-02**	FIA
28	**L2433934-02**	
29	**WG1935570-3; NO3**	
30	**WG1935570-4; NO3**	
31	**L2433934-04**	
32	**L2433934-05**	
33	**L2433934-07**	
34	**L2433934-09**	
35	**L2433934-11**	
36	**L2433934-12**	
37	**L2433934-13**	
38	**L2433934-14**	
39	**L2433934-15**	
40	**L2433934-16**	
41	**L2433934-19**	
42	**L2433934-21**	
43	**L2433934-22**	

Cup #:	Sample ID:	Comments:
44	**L2433934-23**	
45	**L2433934-24**	
46	**L2433934-25**	
47	**L2433934-26**	
48	**L2433934-27**	
49	**L2433934-28**	
50	**L2433934-29**	
51	**L2433934-30**	
52	**WG1935574-3; NO3**	
53	**WG1935574-4; NO3**	
54	**L2433934-31**	
55	**L2433770-35**	
56	**L2432851-01**	
57	**WG1935575-3; CNO3**	
58	**WG1935575-4; CNO3**	
59	**L2432871-01**	
60	**WG1935575-5; CNO3**	
61	**WG1935575-6; CNO3**	
62	**L2432871-02**	
63	**L2432898-02**	
64	**L2432898-04**	
65	**L2432898-07**	
66	**L2433019-01**	
67	**L2433050-02**	
68	**L2433050-03**	
69	**L2433220-01**	
70	**L2433266-01**	
71	**L2433266-02**	
72	**L2433266-03**	
73	**L2433266-04**	
74	**L2433339-01**	
75	**L2433339-02**	
76	**L2433465-01**	
77	**L2433465-02**	
78	**L2433492-01**	
79	**L2433502-02**	
80	**L2431703-01**	
81	**L2432933-01**	
82	**L2432933-02**	
83	**L2432937-01**	
84	**L2432937-02**	
85	**L2432960-07**	TRAY 2
86	**L2433035-01**	
87	**L2433035-02**	
88	**L2433035-03**	
89	**WG1935576-3; CNO3**	

Cup #:	Sample ID:	Comments:
90	**WG1935576-4; CNO3**	
91	**L2433035-04**	
92	**L2433035-05**	
93	**L2433035-06**	
94	**L2433035-07**	
95	**L2433035-08**	
96	**L2433035-09**	
97	**L2433035-10**	
98	**L2433501-07**	
99	**L2433654-02**	
100	**L2433656-02**	
101	**L2433725-07**	
102	**l2433940-01i**	
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Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-01	**Date Collected**	:	06/12/24 13:55
Client ID	:	MW-8S	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	45.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-02	**Date Collected**	:	06/12/24 13:56
Client ID	:	MW-8D	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-03	**Date Collected**	:	06/12/24 08:30
Client ID	:	MW-1SR	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	96.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 03:12
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1935066.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	28.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-05	**Date Collected**	:	06/12/24 10:30
Client ID	:	MP-1	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 03:12
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1935066.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	160	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-07	**Date Collected**	:	06/12/24 12:25
Client ID	:	PZ-6	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	360	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 03:12
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1935066.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	88.	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 03:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1935066.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-10	**Date Collected**	:	06/12/24 12:00
Client ID	:	DUP_06122024	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	80.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG1935066-1	**Date Collected**	:	NA
Client ID	:	WG1935066-1BLANK	**Date Received**	:	NA
Sample Location	:		**Date Analyzed**	:	06/17/24 03:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1935066.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935066-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/17/24 03:12
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1935066.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	40.	13	4.0	

Form 1
WETCHEM

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2433035**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Lab ID	:	**WG1935066-4**	**Date Collected**	:	**06/12/24 08:34**
Client ID	:	**MW-1DR2DUP**	**Date Received**	:	**06/12/24**
Sample Location	:		**Date Analyzed**	:	**06/17/24 03:12**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1.3**
Analytical Method	:	**121,2540C**	**Analyst**	:	**DEW**
Lab File ID	:	**WG1935066.pdf**	**Instrument ID**	:	**BALANCE#22**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**75.**	**13**	**4.0**	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: JUN-18-24 10:39:38

WorkGroup	WG1935066	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	18-JUN-24 01:20	**Time In**	18-JUN-24 04:40	**Time In**	18-JUN-24 07:38	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	18-JUN-24 03:31	**Time Out**	18-JUN-24 07:33	**Time Out**	18-JUN-24 09:17	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	17-JUN-24 08:46

LCS Lot #	**TrueValue**	**Units**
060524B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2432927-01	17-JUN-24 03:12	DEB WHELAN	RA	71913376	112.469	80	112.5877	112.589	112.5866			1470.00	1.3	
L2432927-03	17-JUN-24 03:12	DEB WHELAN	PW	71913376	134.828	80	134.944	134.9427	134.9421			1426.25	1.3	
L2432927-05	17-JUN-24 03:12	DEB WHELAN	RC	71913376	117.721	80	117.8372	117.837				1450.00	1.3	
L2433035-01	17-JUN-24 03:12	DEB WHELAN	PS	71913376	135.3616	80	135.3664	135.3697	135.3652			45.00	1.3	
L2433035-02	17-JUN-24 03:12	DEB WHELAN	BH	71913376	132.6253	80	132.6368	132.6364				138.75	1.3	
L2433035-03	17-JUN-24 03:12	DEB WHELAN	SQ	71913376	139.1166	80	139.1243	139.1245				96.25	1.3	
L2433035-04	17-JUN-24 03:12	DEB WHELAN	AS	71913376	138.9153	80	138.9202	138.9221	138.9175			27.50	1.3	
L2433035-05	17-JUN-24 03:12	DEB WHELAN	OG	71913376	138.4203	80	138.4301	138.4304				122.50	1.3	
L2433035-06	17-JUN-24 03:12	DEB WHELAN	QD	71913376	107.8096	80	107.8226	107.823				162.50	1.3	T5
L2433035-07	17-JUN-24 03:12	DEB WHELAN	PT	71913376	109.478	80	109.507	109.5073				362.50	1.3	
L2433035-08	17-JUN-24 03:12	DEB WHELAN	TC	71913376	147.534	80	147.541	147.5422	147.5457			87.50	1.3	
L2433035-09	17-JUN-24 03:12	DEB WHELAN	RG	71913376	137.1323	100	137.1316	137.1318				-7.00	1	EB
L2433035-10	17-JUN-24 03:12	DEB WHELAN	XE	71913376	139.0318	80	139.0382	139.0414	139.0405			80.00	1.3	
L2433067-02	17-JUN-24 03:12	DEB WHELAN	LN	71913376	147.2934	80	147.3207	147.3229	147.325			341.25	1.3	
L2433067-03	17-JUN-24 03:12	DEB WHELAN	AD2	71913376	128.816	80	128.8459	128.8467	128.8469			373.75	1.3	
L2433067-04	17-JUN-24 03:12	DEB WHELAN	BQ	71913376	147.4038	80	147.433	147.4362	147.4355			365.00	1.3	
L2433161-01	17-JUN-24 03:12	DEB WHELAN	LC	71913376	143.233	80	143.245	143.2448				147.50	1.3	
L2433161-02	17-JUN-24 03:12	DEB WHELAN	XY	71913376	136.4294	80	136.4342	136.4363	136.4377			60.00	1.3	
L2433161-03	17-JUN-24 03:12	DEB WHELAN	RM	71913376	135.0023	80	135.0084	135.0093	135.0104			76.25	1.3	
L2433161-04	17-JUN-24 03:12	DEB WHELAN	OW	71913376	144.0101	80	144.0189	144.0216	144.0225			110.00	1.3	
WG1935066-1	17-JUN-24 03:12	DEB WHELAN	XX	71913376	144.7767	100	144.776	144.7762				-7.00	1	T4
WG1935066-2	17-JUN-24 03:12	DEB WHELAN	FD	71913376	150.9804	50	151.0043	151.0069	151.0053			478.00	2	
WG1935066-3	17-JUN-24 03:12	DEB WHELAN	MB	71913376	142.4633	80	142.4682	142.4689	142.4665			40.00	1.3	
WG1935066-4	17-JUN-24 03:12	DEB WHELAN	RF	71913376	123.4224	80	123.4297	123.4311	123.4284			75.00	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/17/24 03:12
Dup Sample ID	: WG1935066-3	**DUP Analysis Date**	: 06/17/24 03:12

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	96.	40.	82 Q	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1DR2	**Matrix**	: WATER
Lab Sample ID	: L2433035-04	**Analysis Date**	: 06/17/24 03:12
Dup Sample ID	: WG1935066-4	**DUP Analysis Date**	: 06/17/24 03:12

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	28.	75.	91 Q	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935066-2	**LCS Analysis Date**	: 06/17/24 03:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**480.**	**96.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935977.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-02	**Date Collected**	:	06/12/24 13:56
Client ID	:	MW-8D	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/19/24 11:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1936381.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	5.4	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	41.	25	3.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	52.	25	3.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	18.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.2	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935977-1	**Date Collected**	: NA
Client ID	: WG1935977-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935977.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	1.8	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935977-3	**Date Collected**	: 06/04/24 16:50
Client ID	: WG1935977-3 DUP	**Date Received**	: 06/05/24
Sample Location	:	**Date Analyzed**	: 06/18/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1935977.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	89.	50	6.8	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936381-1	**Date Collected**	: NA
Client ID	: WG1936381-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936381-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/19/24 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1936381.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	5.3	10	1.4	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt

Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4072
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 06/18/24
Curve Identifier: 6/18/2024
Analysis Analyte: Sulfate
Analysis Date: 6/18/2024 15:00
Preparation Date: 6/18/2024 15:00
Technician: MRW
Work group: WG1935977
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.59
10	0.164	1.0	8.54
20	0.411	1.0	19.0
40	0.926	1.0	40.9

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023580	-0.0374

Correlation Coefficient
0.996393

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	1.827	1	1.0	1.8	Recovery
	ICV	25	25	0	0.435	0.435	20.016	1	1.0	20.0	100%
SAMP	L2431182-01	5	25	0.002	0.385	0.383	17.826	1	5.0	89.1	
SAMP	L2431182-03	5	25	0.022	0.529	0.507	23.047	1	5.0	115.2	
SAMP	L2431182-05	2.5	25	0	0.253	0.253	12.353	1	10.0	123.5	
SAMP	L2431182-07	2.5	25	0	0.292	0.292	13.995	1	10.0	139.9	
SAMP	L2431182-09	2.5	25	0	0.237	0.237	11.679	1	10.0	116.8	
SAMP	L2431182-11	10	25	0.047	0.587	0.540	24.437	1	2.5	61.1	
SAMP	L2431182-13	10	25	0.012	0.721	0.709	31.552	1	2.5	78.9	
SAMP	L2431182-16	10	25	0.015	0.443	0.428	19.721	1	2.5	49.3	
	CCV1	25	25	0	0.433	0.433	19.931	1	1.0	19.9	
	CCB1	25	25	0	0.001	0.001	1.743	1	1.0	1.7	
SAMP	L2431182-18	5	25	0.001	0.379	0.378	17.616	1	5.0	88.1	
SAMP	L2431182-20	2.5	25	0.002	0.359	0.357	16.732	1	10.0	167.3	
SAMP	L2431182-22	2.5	25	0.001	0.336	0.335	15.805	1	10.0	158.1	
SAMP	L2431182-24	5	25	0.015	0.36	0.345	16.226	1	5.0	81.1	
SAMP	L2431182-26	10	25	0.02	0.372	0.352	16.521	1	2.5	41.3	
SAMP	L2431182-28	2.5	25	0.002	0.349	0.347	16.311	1	10.0	163.1	
SAMP	L2431182-30	10	25	0	0.567	0.567	25.573	1	2.5	63.9	
SAMP	L2431182-32	2	25	0	0.506	0.506	23.005	1	12.5	287.6	
SAMP	L2431182-34	1	25	0.004	0.349	0.345	16.226	1	25.0	405.7	
SAMP	L2431182-36	1	25	0	0.306	0.306	14.584	1	25.0	364.6	
	CCV2	25	25	0	0.45	0.450	20.647	1	1.0	20.6	
	CCB2	25	25	0	0.005	0.005	1.911	1	1.0	1.9	
SAMP	L2431182-38	2	25	0.005	0.485	0.480	21.910	1	12.5	273.9	
SAMP	L2433035-01	25	25	0.044	0.372	0.328	15.511	1	1.0	15.5	
	CCV3	25	25	0	0.428	0.428	19.721	1	1.0	19.7	
	CCB3	25	25	0	0	0.000	1.701	1	1.0	1.7	
BLANK	WG1935977-1	25	25	0.000	0.003	0.003	1.827	1	1.0	1.8	
DUP	WG1935977-3	5	25	0.001	0.385	0.384	17.868	1	5.0	89.3	L2431182-18

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1935977-4	2.5	25	0	0.656	0.656	88.100	25	200.0000	293	103
											L2431182-18
LCS	WG1935977-2	25	25	0	0.435	0.435		1	20.0000	20	100

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt

Curve/spike/ccv;wc3437
LCS;wc3373

Sample Number:_____ **Product: SO4-4500** **Reagent;lot A4072**
Curve Calibration Date : 06/19/24 Pippette/s: 322, 424
Client: _____ **Curve Identifier:** 6/19/2024 Acrodisk: FJ5503
Analysis: Sulfate, SO4 **Analysis Analyte: Sulfate** **Syringe: 2125536**
Method: SM 4500SO4-E **Analysis Date:** 6/19/2024 11:00
Instrument: SPEC6 **Preparation Date:** 6/19/2024 11:00
Wavelength: 420 nm **Technician:** MRW
Spike Volume(ml):0.5 **Work group:** WG1936381
Spike Concentration (mg/l):1000 **RL: 10 mg/l**
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.70
10	0.151	1.0	8.10
20	0.419	1.0	19.5
40	0.921	1.0	40.7

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.023586	-0.04

Correlation Coefficient
0.995832

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	1.954	1	1.0	2.0	Recovery
	ICV	25	25	0	0.433	0.433	20.033	1	1.0	20.0	100%
SAMP	L2431558-01	10	25	0.018	0.431	0.413	19.192	1	2.5	48.0	
SAMP	L2431558-02	2.5	25	0.002	0.297	0.295	14.231	1	10.0	142.3	
SAMP	L2431558-03	2	25	0.003	0.642	0.639	28.695	1	12.5	358.7	
SAMP	L2431558-04	5	25	0.012	0.364	0.352	16.628	1	5.0	83.1	
SAMP	L2431558-05	2.5	25	0.015	0.219	0.204	10.405	1	10.0	104.0	
SAMP	L2431558-13	5	25	0.003	0.411	0.408	18.982	1	5.0	94.9	
SAMP	L2431558-15	25	25	0.163	0.168	0.005	2.038	1	1.0	2.0	FILTERED
SAMP	L2433035-02	25	25	0.018	0.324	0.306	14.693	1	1.0	14.7	
	CCV1	25	25	0	0.431	0.431	19.949	1	1.0	19.9	
	CCB1	25	25	0	0.005	0.005	2.038	1	1.0	2.0	
SAMP	L2433035-03	25	25	0.001	0.087	0.086	5.443	1	1.0	5.4	
SAMP	L2433035-04	25	25	0.049	0.383	0.334	15.871	1	1.0	15.9	
SAMP	L2433035-05	25	25	0	0.332	0.332	15.787	1	1.0	15.8	
SAMP	L2433035-06	10	25	0.005	0.353	0.348	16.459	1	2.5	41.1	
SAMP	L2433035-07	10	25	0.003	0.454	0.451	20.790	1	2.5	52.0	
SAMP	L2433035-08	25	25	0.003	0.378	0.375	17.595	1	1.0	17.6	
SAMP	L2433035-09	25	25	0	0.009	0.009	2.206	1	1.0	2.2	
SAMP	L2433035-10	25	25	0.039	0.358	0.319	15.240	1	1.0	15.2	
SAMP	L2433375-01	25	25	0	0.003	0.003	1.954	1	1.0	2.0	
SAMP	L2433375-02	25	25	0	0.745	0.745	33.152	1	1.0	33.2	
	CCV2	25	25	0	0.427	0.427	19.781	1	1.0	19.8	
	CCB2	25	25	0	0.004	0.004	1.996	1	1.0	2.0	
SAMP	L2433375-03	25	25	0	0.765	0.765	33.993	1	1.0	34.0	
SAMP	L2433375-05	25	25	0	0.15	0.150	8.134	1	1.0	8.1	
	CCV3	25	25	0	0.414	0.414	19.234	1	1.0	19.2	
	CCB3	25	25	0	0.003	0.003	1.954	1	1.0	2.0	
BLANK	WG1936381-1	25	25	0.000	0.003	0.003	1.954	1	1.0	2.0	
DUP	WG1936381-3	25	25	0	0.082	0.082	5.275	1	1.0	5.3	L2433035-03

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1936381-4	12.5	25	0	0.52	0.520	0.000	25	40.0000	47	118
											L2433035-03
LCS	WG1936381-2	25	25	0	0.433	0.433		1	20.0000	20	100

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2431182-18		
Matrix Spike	: WG1935977-4	**MS Analysis Date**	: 06/18/24 15:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	88.	200	290	102					55-147	14

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1936381-4	**MS Analysis Date**	: 06/19/24 11:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Sulfate	5.4J	40	47.	118					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/18/24 15:00
Dup Sample ID	: WG1935977-3	**DUP Analysis Date**	: 06/18/24 15:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	88	89.	1	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/19/24 11:00
Dup Sample ID	: WG1936381-3	**DUP Analysis Date**	: 06/19/24 11:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	5.4J	5.3J	NC	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935977-2	**LCS Analysis Date**	: 06/18/24 15:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**20.0**	**100.**					**90-110**	**14**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936381-2	**LCS Analysis Date**	: 06/19/24 11:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**20.0**	**100.**					**90-110**	**14**

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Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

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

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Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	13.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	20.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV3.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	63.8	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	32.3	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	62.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	47.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	245.	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	40.7	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	32.5	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935730-1	**Date Collected**	: NA
Client ID	: WG1935730-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 09:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935730-3	**Date Collected**	: 06/05/24 10:00
Client ID	: WG1935730-3 DUP	**Date Received**	: 06/05/24
Sample Location	:	**Date Analyzed**	: 06/18/24 11:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV2.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936335-5	**Date Collected**	: NA
Client ID	: WG1936335-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 09:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV3.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936335-7	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 13:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 240618_CSV3.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	64.3	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.966	pH		-56.01	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.01	pH		6/18/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.846 mL	OK
		Consumption 4.2 R3	0.852 mL	OK
		Content R5	16.920 mg/L	OK
		ALK LOW R6	16.800 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.024 mL	OK
		Consumption 4.2 R3	0.034 mL	OK
		Content R5	0.480 mg/L	OK
		ALK LOW R6	0.280 mg/L	OK
3	WG1935720-1	Sample size	50 mL	
		Potential R4	4.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.009 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1935720-2	Sample size	50 mL	
		Potential R4	11.03 pH	OK
		Consumption 8.3 R1	4.919 mL	OK
		Consumption 4.5 R2	5.383 mL	OK
		Consumption 4.2 R3	5.383 mL	OK
		Content R5	107.660 mg/L	OK
		ALK LOW R6	107.660 mg/L	OK
5	I2431182-16	Sample size	50 mL	
		Potential R4	4.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.809 mL	OK
		Consumption 4.2 R3	0.884 mL	OK
		Content R5	16.180 mg/L	OK
		ALK LOW R6	14.680 mg/L	OK
6	I2431182-18	Sample size	50 mL	

Titration report

		Potential R4	4.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.168 mL	OK
		Consumption 4.2 R3	0.308 mL	OK
		Content R5	3.360 mg/L	OK
		ALK LOW R6	0.560 mg/L	OK
7	WG1935720-3	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.205 mL	OK
		Consumption 4.2 R3	0.325 mL	OK
		Content R5	4.100 mg/L	OK
		ALK LOW R6	1.700 mg/L	OK
8	WG1935720-4	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.111 mL	OK
		Consumption 4.2 R3	5.207 mL	OK
		Content R5	102.220 mg/L	OK
		ALK LOW R6	100.300 mg/L	OK
9	I2431182-20	Sample size	50 mL	
		Potential R4	4.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.136 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
10	I2431182-22	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.109 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
11	I2431182-24	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.263 mL	OK
		Consumption 4.2 R3	6.386 mL	OK
		Content R5	125.260 mg/L	OK
		ALK LOW R6	122.800 mg/L	OK
12	I2431182-26	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.943 mL	OK
		Consumption 4.2 R3	17.429 mL	OK
		Content R5	338.860 mg/L	OK

Titration report

		ALK LOW R6	329.140 mg/L	OK
13	I2431182-28	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.121 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	I2432633-01	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.955 mL	OK
		Consumption 4.2 R3	6.018 mL	OK
		Content R5	119.100 mg/L	OK
		ALK LOW R6	117.840 mg/L	OK
15	I2432633-02	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.796 mL	OK
		Consumption 4.2 R3	1.813 mL	OK
		Content R5	35.920 mg/L	OK
		ALK LOW R6	35.580 mg/L	OK
16	I2432633-03	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.080 mL	OK
		Consumption 4.2 R3	11.280 mL	OK
		Content R5	221.600 mg/L	OK
		ALK LOW R6	217.600 mg/L	OK
17	I2432633-04	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.980 mL	OK
		Consumption 4.2 R3	1.000 mL	OK
		Content R5	19.600 mg/L	OK
		ALK LOW R6	19.200 mg/L	OK
18	WG1935730-2	Sample size	50 mL	
		Potential R4	11.14 pH	OK
		Consumption 8.3 R1	4.790 mL	OK
		Consumption 4.5 R2	5.107 mL	OK
		Consumption 4.2 R3	5.114 mL	OK
		Content R5	102.140 mg/L	OK
		ALK LOW R6	102.000 mg/L	OK
19	WG1935730-1	Sample size	50 mL	
		Potential R4	4.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.027 mL	OK

Titration report

		Consumption 4.2 R3	0.035 mL	OK
		Content R5	0.540 mg/L	OK
		ALK LOW R6	0.380 mg/L	OK
20	I2431182-30	Sample size	50 mL	
		Potential R4	4.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.166 mL	OK
		Consumption 4.2 R3	5.726 mL	OK
		Content R5	3.320 mg/L	OK
		ALK LOW R6	-107.880 mg/L	OK
21	I2431182-30	Sample size	50 mL	
		Potential R4	4.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.176 mL	OK
		Consumption 4.2 R3	0.230 mL	OK
		Content R5	3.520 mg/L	OK
		ALK LOW R6	2.440 mg/L	OK
22	WG1935730-3	Sample size	50 mL	
		Potential R4	4.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.159 mL	OK
		Consumption 4.2 R3	0.226 mL	OK
		Content R5	3.180 mg/L	OK
		ALK LOW R6	1.840 mg/L	OK
23	WG1935730-4	Sample size	50 mL	
		Potential R4	9.46 pH	OK
		Consumption 8.3 R1	2.168 mL	OK
		Consumption 4.5 R2	5.654 mL	OK
		Consumption 4.2 R3	5.665 mL	OK
		Content R5	113.080 mg/L	OK
		ALK LOW R6	112.860 mg/L	OK
24	I2431182-32	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.985 mL	OK
		Consumption 4.2 R3	6.046 mL	OK
		Content R5	119.700 mg/L	OK
		ALK LOW R6	118.480 mg/L	OK
25	I2431182-34	Sample size	50 mL	
		Potential R4	5.88 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.203 mL	OK
		Consumption 4.2 R3	7.280 mL	OK
		Content R5	144.060 mg/L	OK
		ALK LOW R6	142.520 mg/L	OK
26	I2431182-36	Sample size	50 mL	
		Potential R4	4.50 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.029 mL	OK
		Consumption 4.2 R3	0.281 mL	OK
		Content R5	0.580 mg/L	OK
		ALK LOW R6	-4.460 mg/L	OK
27	I2431182-38	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.232 mL	OK
		Consumption 4.2 R3	1.315 mL	OK
		Content R5	24.640 mg/L	OK
		ALK LOW R6	22.980 mg/L	OK
28	I2431558-01	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.437 mL	OK
		Consumption 4.2 R3	1.482 mL	OK
		Content R5	28.740 mg/L	OK
		ALK LOW R6	27.840 mg/L	OK
29	I2431558-02	Sample size	50 mL	
		Potential R4	6.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.509 mL	OK
		Consumption 4.2 R3	6.565 mL	OK
		Content R5	130.180 mg/L	OK
		ALK LOW R6	129.060 mg/L	OK
30	I2431558-03	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.492 mL	OK
		Consumption 4.2 R3	10.618 mL	OK
		Content R5	209.840 mg/L	OK
		ALK LOW R6	207.320 mg/L	OK
31	I2431558-04	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.367 mL	OK
		Consumption 4.2 R3	10.530 mL	OK
		Content R5	207.340 mg/L	OK
		ALK LOW R6	204.080 mg/L	OK
32	I2431558-05	Sample size	50 mL	
		Potential R4	5.75 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.051 mL	OK
		Consumption 4.2 R3	12.363 mL	OK
		Content R5	241.020 mg/L	OK
		ALK LOW R6	234.780 mg/L	OK

Titration report

33	I2433035-01	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.702 mL	OK
		Consumption 4.2 R3	0.751 mL	OK
		Content R5	14.040 mg/L	OK
		ALK LOW R6	13.060 mg/L	OK
34	I2433035-02	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.006 mL	OK
		Consumption 4.2 R3	1.020 mL	OK
		Content R5	20.120 mg/L	OK
		ALK LOW R6	19.840 mg/L	OK
35	I2433035-03	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.189 mL	OK
		Consumption 4.2 R3	3.215 mL	OK
		Content R5	63.780 mg/L	OK
		ALK LOW R6	63.260 mg/L	OK
36	WG1935730-5	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.217 mL	OK
		Consumption 4.2 R3	3.247 mL	OK
		Content R5	64.340 mg/L	OK
		ALK LOW R6	63.740 mg/L	OK
37	WG1935730-6	Sample size	50 mL	
		Potential R4	10.11 pH	OK
		Consumption 8.3 R1	4.200 mL	OK
		Consumption 4.5 R2	8.734 mL	OK
		Consumption 4.2 R3	8.742 mL	OK
		Content R5	174.680 mg/L	OK
		ALK LOW R6	174.520 mg/L	OK
38	I2433035-04	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.617 mL	OK
		Consumption 4.2 R3	1.634 mL	OK
		Content R5	32.340 mg/L	OK
		ALK LOW R6	32.000 mg/L	OK
39	I2433035-05	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.104 mL	OK
		Consumption 4.2 R3	3.124 mL	OK

Titration report

		Content R5	62.080 mg/L	OK
		ALK LOW R6	61.680 mg/L	OK
40	I2433035-06	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.362 mL	OK
		Consumption 4.2 R3	2.388 mL	OK
		Content R5	47.240 mg/L	OK
		ALK LOW R6	46.720 mg/L	OK
41	I2433035-07	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.266 mL	OK
		Consumption 4.2 R3	12.434 mL	OK
		Content R5	245.320 mg/L	OK
		ALK LOW R6	241.960 mg/L	OK
42	I2433035-08	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.035 mL	OK
		Consumption 4.2 R3	2.058 mL	OK
		Content R5	40.700 mg/L	OK
		ALK LOW R6	40.240 mg/L	OK
43	I2433035-09	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.072 mL	OK
		Consumption 4.2 R3	0.081 mL	OK
		Content R5	1.440 mg/L	OK
		ALK LOW R6	1.260 mg/L	OK
44	I2433035-10	Sample size	50 mL	
		Potential R4	5.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.626 mL	OK
		Consumption 4.2 R3	1.637 mL	OK
		Content R5	32.520 mg/L	OK
		ALK LOW R6	32.300 mg/L	OK
45	CCV	Sample size	50 mL	
		Potential R4	10.97 pH	OK
		Consumption 8.3 R1	4.711 mL	OK
		Consumption 4.5 R2	5.076 mL	OK
		Consumption 4.2 R3	5.082 mL	OK
		Content R5	101.520 mg/L	OK
		ALK LOW R6	101.400 mg/L	OK
46	CCB	Sample size	50 mL	
		Potential R4	4.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

Consumption 4.5 R2	0.018 mL	OK
Consumption 4.2 R3	0.029 mL	OK
Content R5	0.360 mg/L	OK
ALK LOW R6	0.140 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.919 mL	**Minimum**	2.168 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	16.943 mL	**Minimum**	0.018 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R3

Mean	3.831 mL		
Maximum	17.429 mL	**Minimum**	0.009 mL
Standard deviation	4.226 mL	**Rel. standard deviation**	110.327 %
Total samples	46	**Samples excluded**	0

R4

Mean	5.96 pH		
Maximum	11.14 pH	**Minimum**	4.37 pH
Standard deviation	1.75 pH	**Rel. standard deviation**	29.317 %
Total samples	46	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	338.860 mg/L	**Minimum**	0.360 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	329.140 mg/L	**Minimum**	-107.880 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

Titration report

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/18/2024 8:00:24 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	6.966	pH		-56.01	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.01	pH		6/18/2024 7	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.846 mL	OK
		Consumption 4.2 R3	0.852 mL	OK
		Content R5	16.920 mg/L	OK
		ALK LOW R6	16.800 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	4.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.024 mL	OK
		Consumption 4.2 R3	0.034 mL	OK
		Content R5	0.480 mg/L	OK
		ALK LOW R6	0.280 mg/L	OK
3	WG1935720-1	Sample size	50 mL	
		Potential R4	4.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.009 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
4	WG1935720-2	Sample size	50 mL	
		Potential R4	11.03 pH	OK
		Consumption 8.3 R1	4.919 mL	OK
		Consumption 4.5 R2	5.383 mL	OK
		Consumption 4.2 R3	5.383 mL	OK
		Content R5	107.660 mg/L	OK
		ALK LOW R6	107.660 mg/L	OK
5	I2431182-16	Sample size	50 mL	
		Potential R4	4.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.809 mL	OK
		Consumption 4.2 R3	0.884 mL	OK
		Content R5	16.180 mg/L	OK
		ALK LOW R6	14.680 mg/L	OK
6	I2431182-18	Sample size	50 mL	

Titration report

		Potential R4	4.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.168 mL	OK
		Consumption 4.2 R3	0.308 mL	OK
		Content R5	3.360 mg/L	OK
		ALK LOW R6	0.560 mg/L	OK
7	WG1935720-3	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.205 mL	OK
		Consumption 4.2 R3	0.325 mL	OK
		Content R5	4.100 mg/L	OK
		ALK LOW R6	1.700 mg/L	OK
8	WG1935720-4	Sample size	50 mL	
		Potential R4	5.64 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.111 mL	OK
		Consumption 4.2 R3	5.207 mL	OK
		Content R5	102.220 mg/L	OK
		ALK LOW R6	100.300 mg/L	OK
9	I2431182-20	Sample size	50 mL	
		Potential R4	4.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.136 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
10	I2431182-22	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.109 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
11	I2431182-24	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.263 mL	OK
		Consumption 4.2 R3	6.386 mL	OK
		Content R5	125.260 mg/L	OK
		ALK LOW R6	122.800 mg/L	OK
12	I2431182-26	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.943 mL	OK
		Consumption 4.2 R3	17.429 mL	OK
		Content R5	338.860 mg/L	OK

Titration report

		ALK LOW R6	329.140 mg/L	OK
13	I2431182-28	Sample size	50 mL	
		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.121 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	I2432633-01	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.955 mL	OK
		Consumption 4.2 R3	6.018 mL	OK
		Content R5	119.100 mg/L	OK
		ALK LOW R6	117.840 mg/L	OK
15	I2432633-02	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.796 mL	OK
		Consumption 4.2 R3	1.813 mL	OK
		Content R5	35.920 mg/L	OK
		ALK LOW R6	35.580 mg/L	OK
16	I2432633-03	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.080 mL	OK
		Consumption 4.2 R3	11.280 mL	OK
		Content R5	221.600 mg/L	OK
		ALK LOW R6	217.600 mg/L	OK
17	I2432633-04	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.980 mL	OK
		Consumption 4.2 R3	1.000 mL	OK
		Content R5	19.600 mg/L	OK
		ALK LOW R6	19.200 mg/L	OK
18	WG1935730-2	Sample size	50 mL	
		Potential R4	11.14 pH	OK
		Consumption 8.3 R1	4.790 mL	OK
		Consumption 4.5 R2	5.107 mL	OK
		Consumption 4.2 R3	5.114 mL	OK
		Content R5	102.140 mg/L	OK
		ALK LOW R6	102.000 mg/L	OK
19	WG1935730-1	Sample size	50 mL	
		Potential R4	4.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.027 mL	OK

Titration report

		Consumption 4.2 R3	0.035 mL	OK
		Content R5	0.540 mg/L	OK
		ALK LOW R6	0.380 mg/L	OK
20	I2431182-30	Sample size	50 mL	
		Potential R4	4.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.166 mL	OK
		Consumption 4.2 R3	5.726 mL	OK
		Content R5	3.320 mg/L	OK
		ALK LOW R6	-107.880 mg/L	OK
21	I2431182-30	Sample size	50 mL	
		Potential R4	4.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.176 mL	OK
		Consumption 4.2 R3	0.230 mL	OK
		Content R5	3.520 mg/L	OK
		ALK LOW R6	2.440 mg/L	OK
22	WG1935730-3	Sample size	50 mL	
		Potential R4	4.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.159 mL	OK
		Consumption 4.2 R3	0.226 mL	OK
		Content R5	3.180 mg/L	OK
		ALK LOW R6	1.840 mg/L	OK
23	WG1935730-4	Sample size	50 mL	
		Potential R4	9.46 pH	OK
		Consumption 8.3 R1	2.168 mL	OK
		Consumption 4.5 R2	5.654 mL	OK
		Consumption 4.2 R3	5.665 mL	OK
		Content R5	113.080 mg/L	OK
		ALK LOW R6	112.860 mg/L	OK
24	I2431182-32	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.985 mL	OK
		Consumption 4.2 R3	6.046 mL	OK
		Content R5	119.700 mg/L	OK
		ALK LOW R6	118.480 mg/L	OK
25	I2431182-34	Sample size	50 mL	
		Potential R4	5.88 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.203 mL	OK
		Consumption 4.2 R3	7.280 mL	OK
		Content R5	144.060 mg/L	OK
		ALK LOW R6	142.520 mg/L	OK
26	I2431182-36	Sample size	50 mL	
		Potential R4	4.50 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.029 mL	OK
		Consumption 4.2 R3	0.281 mL	OK
		Content R5	0.580 mg/L	OK
		ALK LOW R6	-4.460 mg/L	OK
27	I2431182-38	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.232 mL	OK
		Consumption 4.2 R3	1.315 mL	OK
		Content R5	24.640 mg/L	OK
		ALK LOW R6	22.980 mg/L	OK
28	I2431558-01	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.437 mL	OK
		Consumption 4.2 R3	1.482 mL	OK
		Content R5	28.740 mg/L	OK
		ALK LOW R6	27.840 mg/L	OK
29	I2431558-02	Sample size	50 mL	
		Potential R4	6.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.509 mL	OK
		Consumption 4.2 R3	6.565 mL	OK
		Content R5	130.180 mg/L	OK
		ALK LOW R6	129.060 mg/L	OK
30	I2431558-03	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.492 mL	OK
		Consumption 4.2 R3	10.618 mL	OK
		Content R5	209.840 mg/L	OK
		ALK LOW R6	207.320 mg/L	OK
31	I2431558-04	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.367 mL	OK
		Consumption 4.2 R3	10.530 mL	OK
		Content R5	207.340 mg/L	OK
		ALK LOW R6	204.080 mg/L	OK
32	I2431558-05	Sample size	50 mL	
		Potential R4	5.75 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.051 mL	OK
		Consumption 4.2 R3	12.363 mL	OK
		Content R5	241.020 mg/L	OK
		ALK LOW R6	234.780 mg/L	OK

Titration report

33	I2433035-01	Sample size	50 mL	
		Potential R4	5.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.702 mL	OK
		Consumption 4.2 R3	0.751 mL	OK
		Content R5	14.040 mg/L	OK
		ALK LOW R6	13.060 mg/L	OK
34	I2433035-02	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.006 mL	OK
		Consumption 4.2 R3	1.020 mL	OK
		Content R5	20.120 mg/L	OK
		ALK LOW R6	19.840 mg/L	OK
35	I2433035-03	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.189 mL	OK
		Consumption 4.2 R3	3.215 mL	OK
		Content R5	63.780 mg/L	OK
		ALK LOW R6	63.260 mg/L	OK
36	WG1935730-5	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.217 mL	OK
		Consumption 4.2 R3	3.247 mL	OK
		Content R5	64.340 mg/L	OK
		ALK LOW R6	63.740 mg/L	OK
37	WG1935730-6	Sample size	50 mL	
		Potential R4	10.11 pH	OK
		Consumption 8.3 R1	4.200 mL	OK
		Consumption 4.5 R2	8.734 mL	OK
		Consumption 4.2 R3	8.742 mL	OK
		Content R5	174.680 mg/L	OK
		ALK LOW R6	174.520 mg/L	OK
38	I2433035-04	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.617 mL	OK
		Consumption 4.2 R3	1.634 mL	OK
		Content R5	32.340 mg/L	OK
		ALK LOW R6	32.000 mg/L	OK
39	I2433035-05	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.104 mL	OK
		Consumption 4.2 R3	3.124 mL	OK

Titration report

		Content R5	62.080 mg/L	OK
		ALK LOW R6	61.680 mg/L	OK
40	I2433035-06	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.362 mL	OK
		Consumption 4.2 R3	2.388 mL	OK
		Content R5	47.240 mg/L	OK
		ALK LOW R6	46.720 mg/L	OK
41	I2433035-07	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.266 mL	OK
		Consumption 4.2 R3	12.434 mL	OK
		Content R5	245.320 mg/L	OK
		ALK LOW R6	241.960 mg/L	OK
42	I2433035-08	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.035 mL	OK
		Consumption 4.2 R3	2.058 mL	OK
		Content R5	40.700 mg/L	OK
		ALK LOW R6	40.240 mg/L	OK
43	I2433035-09	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.072 mL	OK
		Consumption 4.2 R3	0.081 mL	OK
		Content R5	1.440 mg/L	OK
		ALK LOW R6	1.260 mg/L	OK
44	I2433035-10	Sample size	50 mL	
		Potential R4	5.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.626 mL	OK
		Consumption 4.2 R3	1.637 mL	OK
		Content R5	32.520 mg/L	OK
		ALK LOW R6	32.300 mg/L	OK
45	CCV	Sample size	50 mL	
		Potential R4	10.97 pH	OK
		Consumption 8.3 R1	4.711 mL	OK
		Consumption 4.5 R2	5.076 mL	OK
		Consumption 4.2 R3	5.082 mL	OK
		Content R5	101.520 mg/L	OK
		ALK LOW R6	101.400 mg/L	OK
46	CCB	Sample size	50 mL	
		Potential R4	4.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

Consumption 4.5 R2	0.018 mL	OK
Consumption 4.2 R3	0.029 mL	OK
Content R5	0.360 mg/L	OK
ALK LOW R6	0.140 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.919 mL	**Minimum**	2.168 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	16.943 mL	**Minimum**	0.018 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R3

Mean	3.831 mL		
Maximum	17.429 mL	**Minimum**	0.009 mL
Standard deviation	4.226 mL	**Rel. standard deviation**	110.327 %
Total samples	46	**Samples excluded**	0

R4

Mean	5.96 pH		
Maximum	11.14 pH	**Minimum**	4.37 pH
Standard deviation	1.75 pH	**Rel. standard deviation**	29.317 %
Total samples	46	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	338.860 mg/L	**Minimum**	0.360 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	329.140 mg/L	**Minimum**	-107.880 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	46	**Samples excluded**	0

Titration report

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/18/2024 8:00:24 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/18/24 09:25
Dup Sample ID	: WG1935730-3	**DUP Analysis Date**	: 06/18/24 11:49

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	2.44	ND	NC	9

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 13:53
Dup Sample ID	: WG1936335-7	**DUP Analysis Date**	: 06/18/24 13:56

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	63.8	64.3	1	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240618	LCS 7.0	7.01	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse	42	l2433035-08
2	Rinse	43	l2433035-09
3	blank	44	l2433035-10
4	lcs	45	CCV
5	l2431182-16	46	CCB
6	l2431182-18	47	
7	DUP	48	
8	MS	49	
9	l2431182-20	50	
10	l2431182-22	51	
11	l2431182-24	52	
12	l2431182-26	53	
13	l2431182-28	54	
14	l2432633-01	55	
15	l2432633-02	56	
16	l2432633-03	57	
17	l2432633-04	58	
18	CCV	59	
19	CCB	60	
20	Xl2431182-30	61	
21	l2431182-30	62	
22	DUP	63	
23	MS	64	
24	l2431182-32	65	
25	l2431182-34	66	
26	l2431182-36	67	
27	l2431182-38	68	
28	l2431558-01	69	
29	l2431558-02	70	
30	l2431558-03	71	
31	l2431558-04	72	
32	l2431558-05	73	
33	l2433035-01	74	
34	l2433035-02	75	
35	l2433035-03	76	
36	DUP		
37	MS		
38	l2433035-04		
39	l2433035-05		
40	l2433035-06		
41	l2433035-07		

CAL	240618	LCS 7.0	7.01	INT:	MKT
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse	42	l2433035-08
2	Rinse	43	l2433035-09
3	blank	44	l2433035-10
4	lcs	45	CCV
5	l2431182-16	46	CCB
6	l2431182-18	47	
7	DUP	48	
8	MS	49	
9	l2431182-20	50	
10	l2431182-22	51	
11	l2431182-24	52	
12	l2431182-26	53	
13	l2431182-28	54	
14	l2432633-01	55	
15	l2432633-02	56	
16	l2432633-03	57	
17	l2432633-04	58	
18	CCV	59	
19	CCB	60	
20	Xl2431182-30	61	
21	l2431182-30	62	
22	DUP	63	
23	MS	64	
24	l2431182-32	65	
25	l2431182-34	66	
26	l2431182-36	67	
27	l2431182-38	68	
28	l2431558-01	69	
29	l2431558-02	70	
30	l2431558-03	71	
31	l2431558-04	72	
32	l2431558-05	73	
33	l2433035-01	74	
34	l2433035-02	75	
35	l2433035-03	76	
36	DUP		
37	MS		
38	l2433035-04		
39	l2433035-05		
40	l2433035-06		
41	l2433035-07		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-01	**Date Collected**	:	06/12/24 13:55
Client ID	:	MW-8S	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 14:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240617-A	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	5.6	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	29.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	4.6	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	9.7	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	20.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	12.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	11.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-08	**Date Collected**	:	06/12/24 12:38
Client ID	:	MW-6D	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/17/24 14:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240617-A	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	16.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/17/24 14:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	9.6	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935351-1	**Date Collected**	: NA
Client ID	: WG1935351-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/17/24 14:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935351-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/17/24 14:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240617-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	4.7	1.0	0.89	

Sample Raw Data

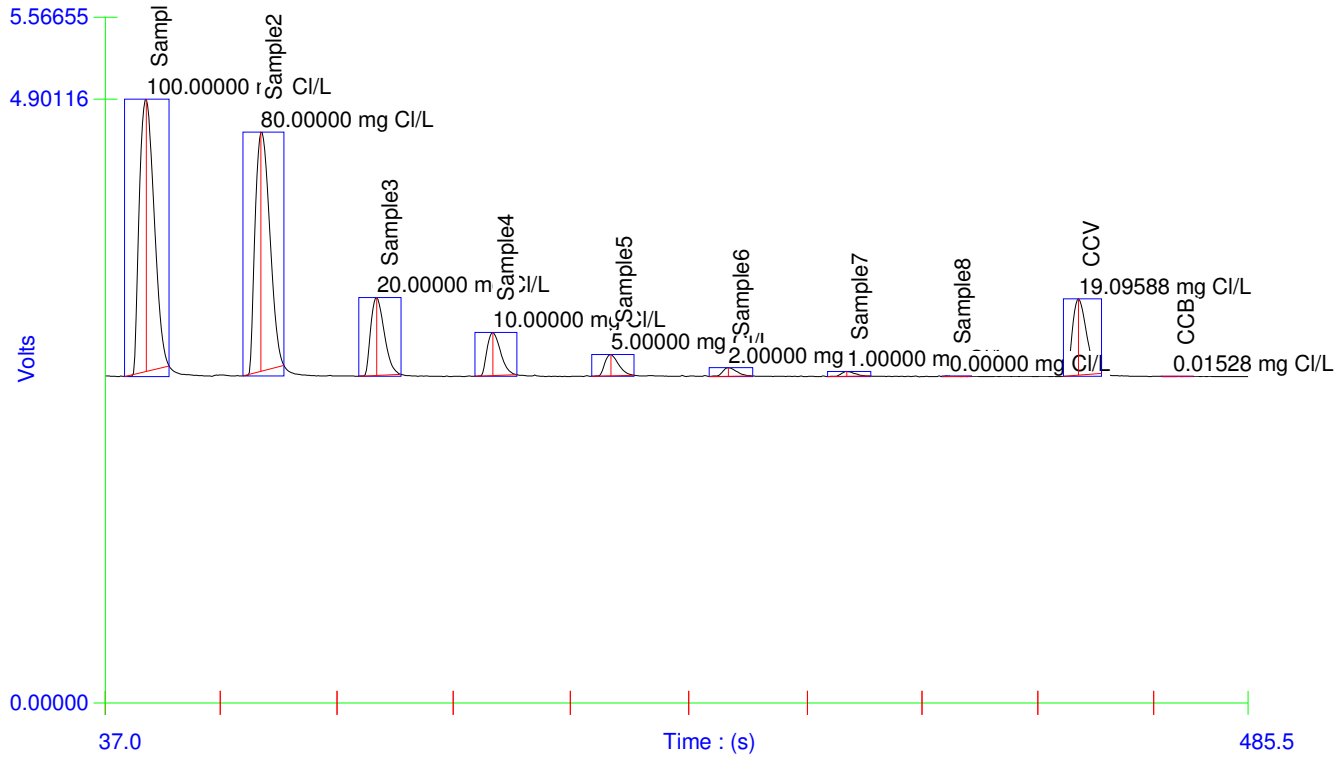
Author: Date : 6/17/2024

Original Run Filename: OM_6-17-2024_03-22-43AM.OMN Created: 6/17/2024 3:22:43 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-17-2024_03-22-43AM.OMN Last Modified: 6/17/2024 3:46:28 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

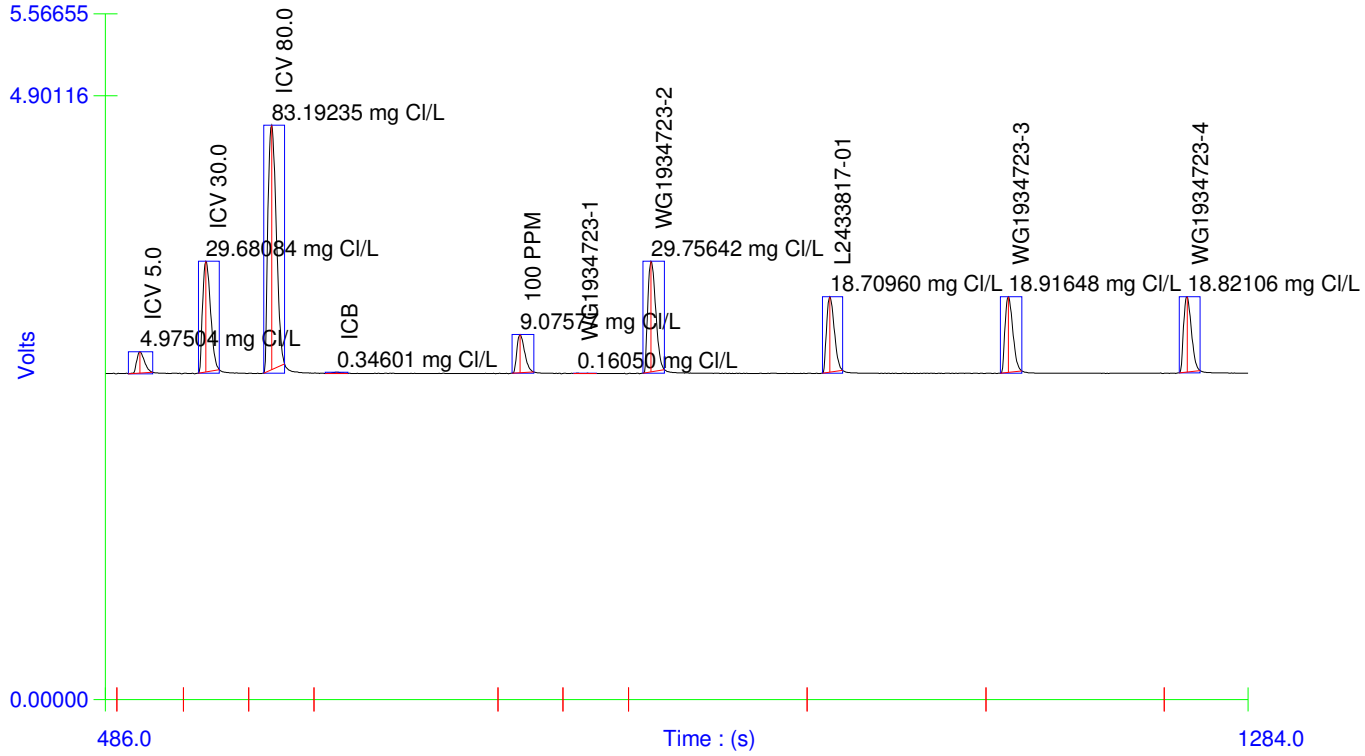
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	19.09588				
Known Conc:			20.00000				
Calibration:			Table/Fig. : 1				
CCB	1	S9	0.01528				
Known Conc:			0.00000				
ICV 5.0	1	1	4.97504				100%
ICV 30.0	1	2	29.68084				99%
ICV 80.0	1	3	83.19235				104%
ICB	1	4	0.34601				
100 PPM	1	5	90.75768	10.00			91%
WG1934723-1	1	6	0.16050				
WG1934723-2	1	7	29.75642				
L2433817-01	1	8	467.74005	25.00			
WG1934723-3	1	9	472.91202	25.00			
WG1934723-4	1	10	470.52661	25.00			
CCV	1	S3	19.38097				
Known Conc:			20.00000				
CCB	1	S9	0.20753				
Known Conc:			0.00000				

Author: Date : 6/17/2024

Channel 1 (Chloride) - Set: 1 / 3



Channel 1 (Chloride) - Set: 2 / 3



Author: Date : 6/17/2024

Channel 1 (Chloride) - Set: 3 / 3

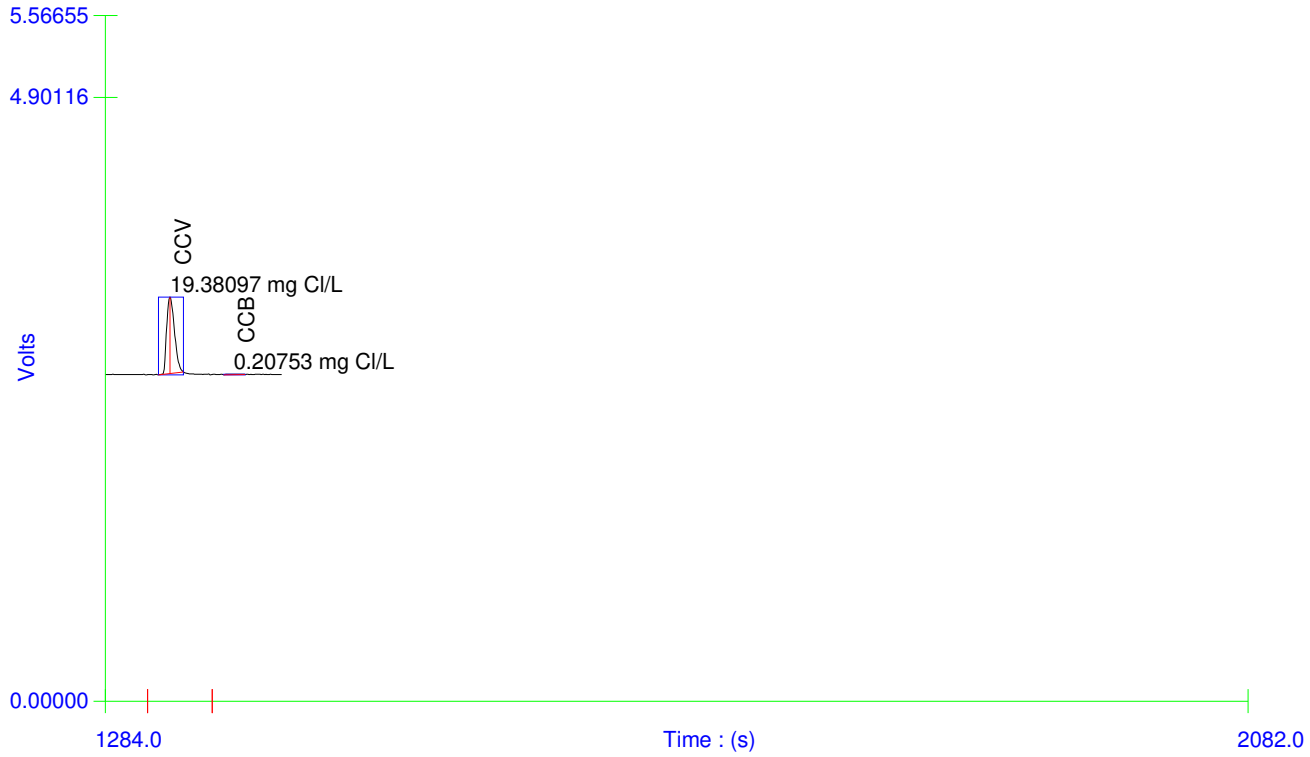
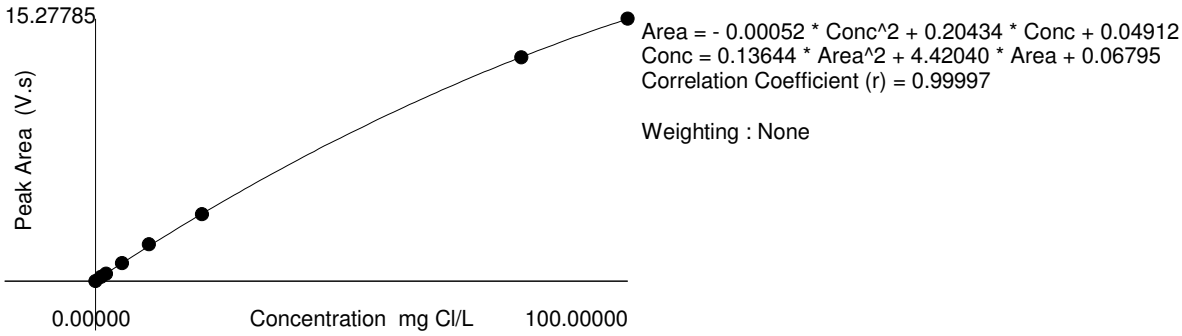


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.27785	2.21067	0.0	-0.1	99.45007	6/17/2024	3:23:35 AM
2	80.00000	1	13.02713	1.94389	0.0	0.2	80.80855	6/17/2024	3:24:20 AM
3	20.00000	1	3.89783	0.63205	0.0	0.7	19.37092	6/17/2024	3:25:06 AM
4	10.00000	1	2.14439	0.34990	0.0	-5.1	10.17447	6/17/2024	3:25:51 AM
5	5.00000	1	1.05804	0.17215	0.0	0.0	4.89768	6/17/2024	3:26:37 AM
6	2.00000	1	0.43954	0.06901	0.0	3.6	2.03726	6/17/2024	3:27:25 AM
7	1.00000	1	0.24391	0.03907	0.0	3.6	1.15424	6/17/2024	3:28:10 AM
8	0.00000	1	0.00879	0.00352			0.10681	6/17/2024	3:28:56 AM

Figure : 1 (Chloride-CH3)



Author: Date : 6/17/2024

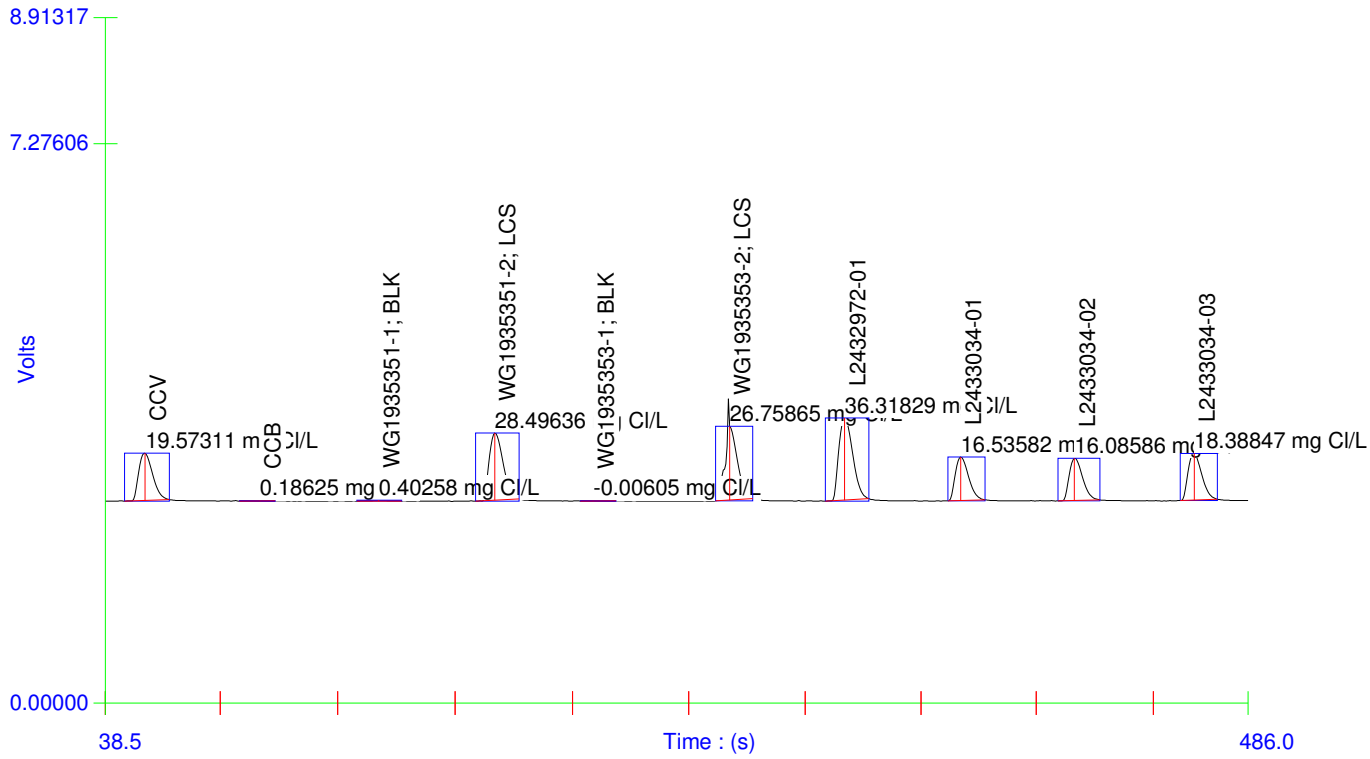
Original Run Filename: OM_6-17-2024_02-00-59PM.OMN Created: 6/17/2024 2:00:59 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_6-17-2024_02-00-59PM.OMN Last Modified: 6/17/2024 2:49:11 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.57311			
	Known Conc:		20.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S9	0.18625			
	Known Conc:		0.00000			
WG1935351-1; BLK	1	1	0.40258			
WG1935351-2; LCS	1	2	28.49636			95%
WG1935353-1; BLK	1	3	-0.00605			
~~WG1935353-2; LCS~~	~~1~~	~~4~~	~~26.75865~~			
L2432972-01	1	5	36.31829			
L2433034-01	1	6	16.53582			
L2433034-02	1	7	16.08586			
L2433034-03	1	8	18.38847			
~~L2433034-04~~	~~1~~	~~9~~	~~16.86469~~			
L2433034-05	1	10	24.71040			
CCV	1	S3	19.18573			
	Known Conc:		20.00000			
CCB	1	S9	0.01696			
	Known Conc:		0.00000			
L2433035-01	1	11	5.56128			
L2433035-02	1	12	29.38678			
L2433035-03	1	13	4.59918			
WG1935351-3; DUP	1	14	4.66875			
WG1935351-4; MS	1	15	23.36689			
L2433035-04	1	16	9.69528			
L2433035-05	1	17	20.27139			
L2433035-06	1	18	12.32794			
L2433035-07	1	19	11.14302			
L2433035-08	1	20	15.87768			
CCV	1	S3	19.09664			
	Known Conc:		20.00000			
CCB	1	S9	0.10677			
	Known Conc:		0.00000			
L2433035-09	1	21	0.19601			
L2433035-10	1	22	9.55766			
~~L2433153-01~~	~~1~~	~~23~~	~~130.36880~~			
~~L2433153-02~~	~~1~~	~~24~~	~~371.23965~~			
~~L2433153-03~~	~~1~~	~~25~~	~~17.53574~~			
~~L2433153-04~~	~~1~~	~~26~~	~~133.65950~~			
~~WG1935353-3; DUP~~	~~1~~	~~27~~	~~133.31059~~			
WG1935353-4; MS	1	28	160.66492	10.00		
L2433153-05	1	29	244.50299			
L2433153-06	1	30	189.64581	10.00		
CCV	1	S3	19.48536			
	Known Conc:		20.00000			
CCB	1	S9	0.18717			
	Known Conc:		0.00000			
L2433153-07	1	31	83.97620			
WG1935353-2; LCS	1	4	28.59470			95%
L2433034-04	1	9	17.76016			
L2433153-01	1	23	134.66454	10.00		
L2433153-02	1	24	788.63251	10.00		
L2433153-03	1	25	16.21606			
L2433153-04	1	26	148.58366	10.00		
WG1935353-3; DUP	1	27	143.86694	10.00		
L2433153-05	1	29	335.37073	10.00		
CCV	1	S3	19.05496			
	Known Conc:		20.00000			

Author: Date : 6/17/2024

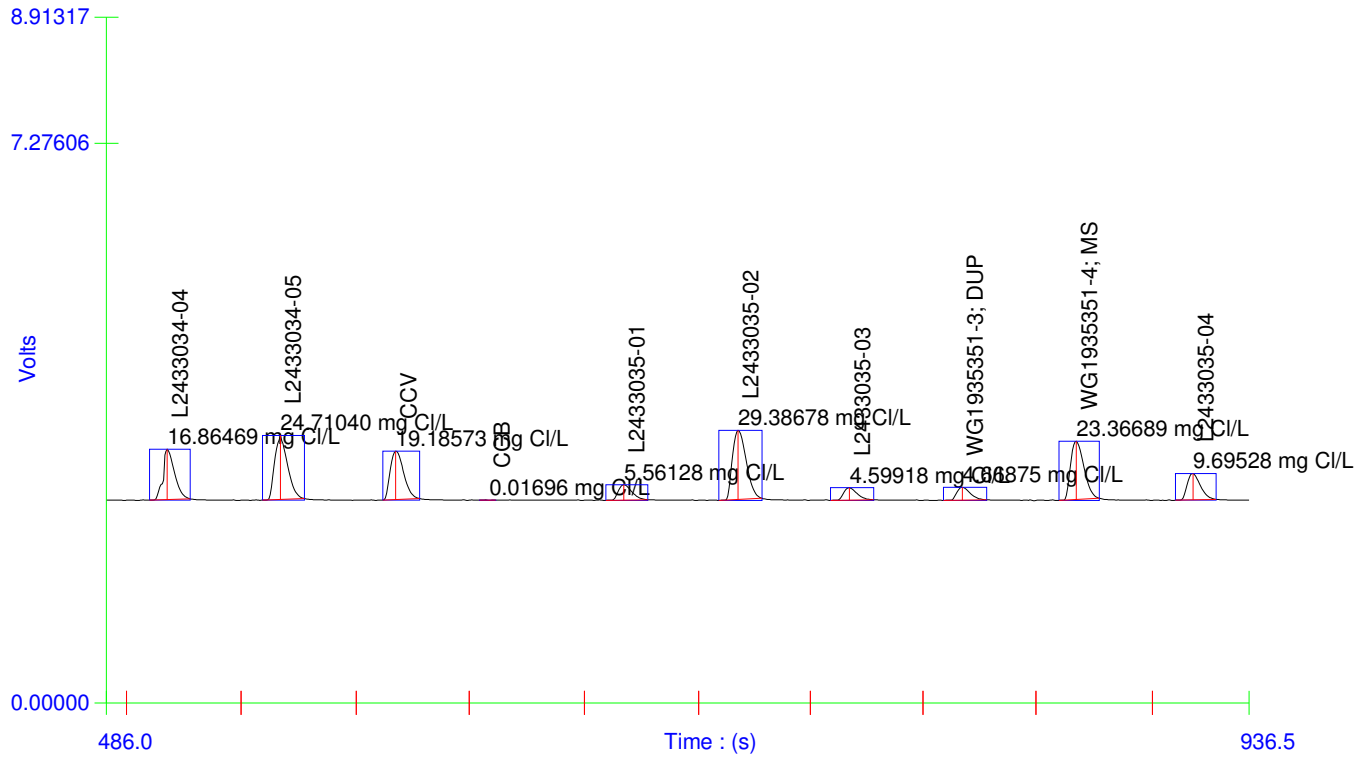
CCB	1	S9	0.02551			
		Known Conc:	0.00000			

Channel 1 (Chloride) - Set: 1 / 5

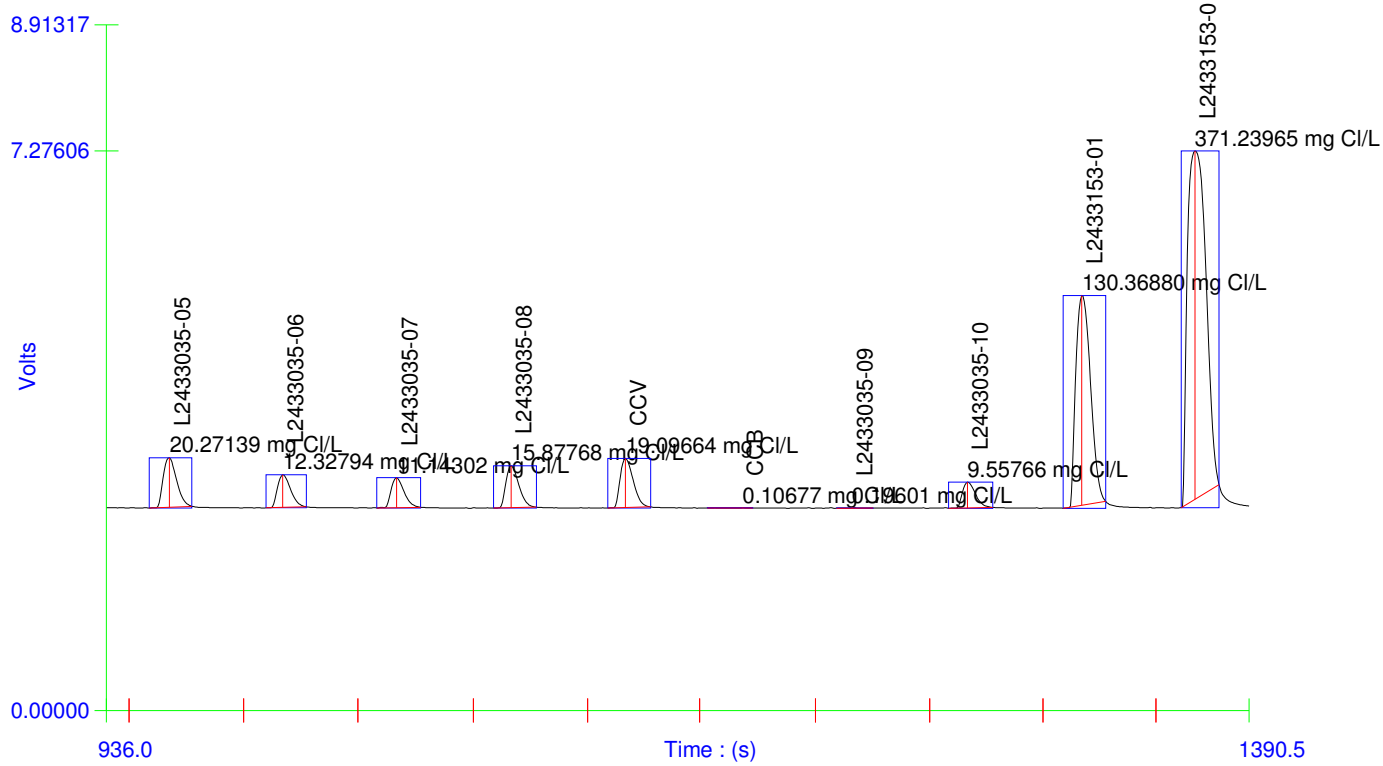


Author: Date : 6/17/2024

Channel 1 (Chloride) - Set: 2 / 5

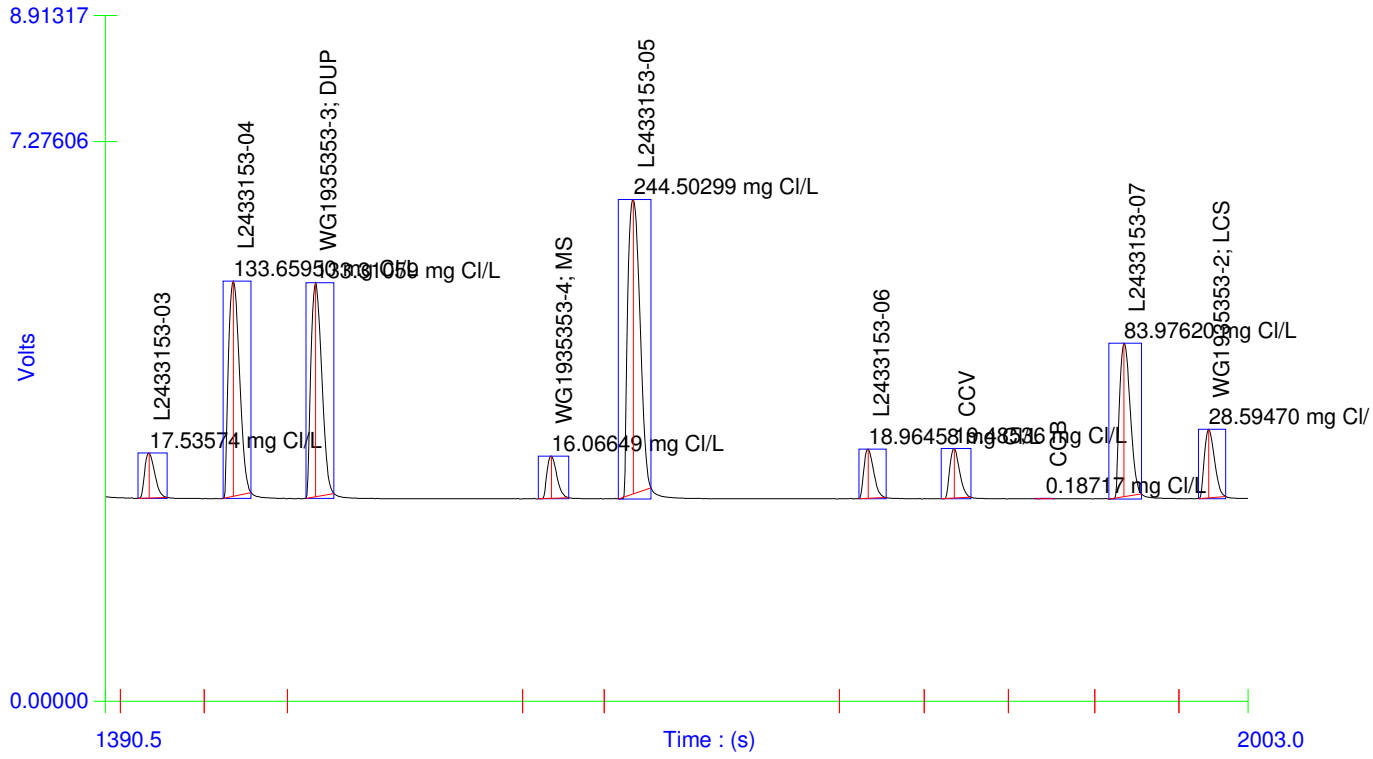


Channel 1 (Chloride) - Set: 3 / 5



Author: Date : 6/17/2024

Channel 1 (Chloride) - Set: 4 / 5



Author: Date : 6/17/2024

Channel 1 (Chloride) - Set: 5 / 5

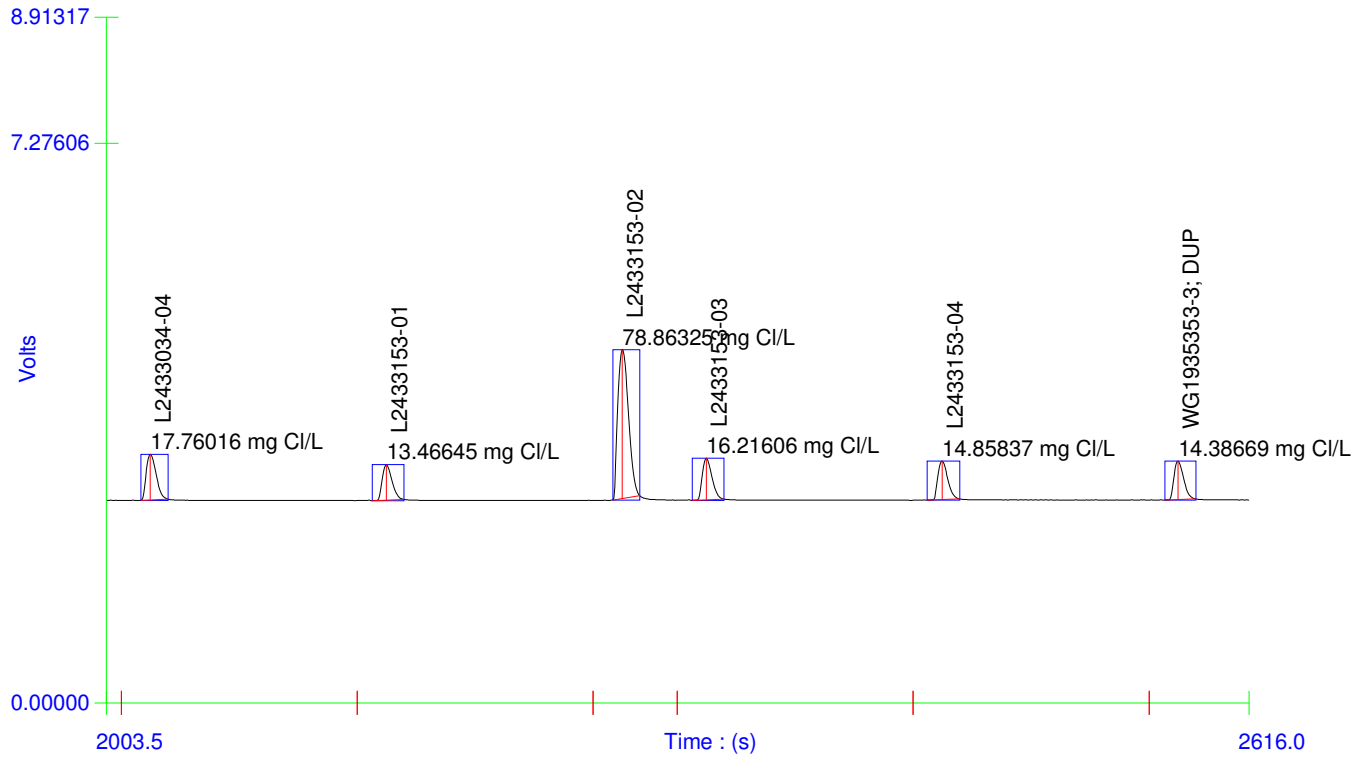
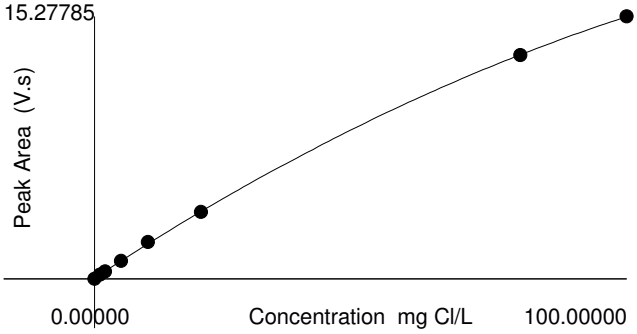


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.27785	2.21067	0.0	-0.1	99.45007	6/17/2024	3:23:35 AM
2	80.00000	1	13.02713	1.94389	0.0	0.2	80.80855	6/17/2024	3:24:20 AM
3	20.00000	1	3.89783	0.63205	0.0	0.7	19.37092	6/17/2024	3:25:06 AM
4	10.00000	1	2.14439	0.34990	0.0	-5.1	10.17447	6/17/2024	3:25:51 AM
5	5.00000	1	1.05804	0.17215	0.0	0.0	4.89768	6/17/2024	3:26:37 AM
6	2.00000	1	0.43954	0.06901	0.0	3.6	2.03726	6/17/2024	3:27:25 AM
7	1.00000	1	0.24391	0.03907	0.0	3.6	1.15424	6/17/2024	3:28:10 AM
8	0.00000	1	0.00879	0.00352			0.10681	6/17/2024	3:28:56 AM

Figure : 1 (Chloride-CH3)



Area = - 0.00052 * Conc^2 + 0.20434 * Conc + 0.04912
Conc = 0.13644 * Area^2 + 4.42040 * Area + 0.06795
Correlation Coefficient (r) = 0.99997

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935351-4	**MS Analysis Date**	: 06/17/24 14:15
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	4.6	20	23.	92					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/17/24 14:13
Dup Sample ID	: WG1935351-3	**DUP Analysis Date**	: 06/17/24 14:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	4.6	4.7	2	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935351-2	**LCS Analysis Date**	: 06/17/24 14:04
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**28.0**	**93.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

1	WG193535 1 -1 Blank
2	-2 LCS
3	WG193535 3 -1 Blank
4	-2 LCS
5	32972-01
6	33034-01
7	-02
8	-03
9	-04
10	-05
11	33035-01
12	-02
13	-03
14	WG193535 1 -3 Dup
15	-4 MS
16	-04
17	-05
18	-06
19	-07
20	-08
21	-09
22	-10
23	33153-01
24	-02
25	-03
26	-04
27	WG193535 3 -3 Dup
28	-4 MS
29	-05
30	-06
31	-07

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2433035
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2433035-02	**Date Collected**	:	06/12/24 13:56
Client ID	:	MW-8D	**Date Received**	:	06/12/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	06/18/24 09:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG1935592.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.09	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.08	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935592-1	**Date Collected**	: NA
Client ID	: WG1935592-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1935592-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 09:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1935592.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.02	U

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Product: F-4500
Analysis Analyte: Fluoride,
Analysis Date: 6/18/2024 9:00
Technician: DTH
Work group: WG1935592
RL: 0.20 mg/L
Distillation Date: 6/18/2024 4:44

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	128.5	-0.701	0.1992	100	-60.1481634	86.355
0.5	-0.301	104.6	-0.303	0.4974	99		
1.0	0.000	86	0.006	1.0137	101	Correlation	Coefficient
10	1.000	26.32	0.998	9.957	100	0.99998522	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	1.07	1.00	1.07	107%
SAMP	L2431465-01	50	50		YES	1.00	0.266	1.00	0.27	
SAMP	L2433035-01	50	50		YES	1.00	0.0568	1.00	0.06	
SAMP	L2433035-02	50	50		YES	1.00	0.0431	1.00	0.04	
SAMP	L2433035-03	50	50		YES	1.00	0.0627	1.00	0.06	
SAMP	L2433035-04	50	50		YES	1.00	0.0479	1.00	0.05	
SAMP	L2433035-05	50	50		YES	1.00	0.0949	1.00	0.09	
SAMP	L2433035-06	50	50		YES	1.00	0.0499	1.00	0.05	
SAMP	L2433035-07	50	50		YES	1.00	0.0841	1.00	0.08	
SAMP	L2433035-08	50	50		YES	1.00	0.0612	1.00	0.06	
SAMP	L2433035-09	50	50		YES	1.00	0.0306	1.00	0.03	
SAMP	L2433035-10	50	50		YES	1.00	0.0315	1.00	0.03	
	L2433236-01	50	50		YES	1.00	0.0484	1.00	0.05	
SAMP	L2433502-02	50	50		YES	1.00	0.171	1.00	0.17	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.05	1.00	1.05	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.05	1.00	1.05	
LOQ1	WG1935592-5	50	50		YES	1.00	0.0999	1.00	0.10	
						1.00		1.00		
						1.00		1.00		
BLANK	WG1935592-1	50	50		YES	1.00	0.0634	1.00	0.06	
DUP	WG1935592-3	50	50		YES	1.00	0	1.00	0.00	L2433035-03

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1935592-4	50	50		YES	.06	0.976	1	0.98	92
LCS	WG1935592-2	50	50		YES		1.83	2	1.83	92

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1935592-4	**MS Analysis Date**	: 06/18/24 09:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.06J	1	0.98	98					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 09:00
Dup Sample ID	: WG1935592-3	**DUP Analysis Date**	: 06/18/24 09:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.06J	ND	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1935592-2	**LCS Analysis Date**	: 06/18/24 09:00
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.80**	**92.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

From Page No. ___

WG1935592 WG1935593

Analyst: JTH
Date & Time: 6/18/24 9:00
ICV:F 031724
LCS:F 031724
Spike:F 031724
Curve:WC- 3420
TISAB III: R- 4133

STD	Mv
0.0	128.5
0.5	104.6
1.0	86.0
10.0	26.0

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	1.07
ICB			000
Blank			0.00
LCS			1.83
31465-01			0.266
33035-01			0.0566
-02			0.0431
-03			0.0637
-03DUP			0.0634
-03MS			0.976
-04			0.6479
-05			0.0949
CCV			1.05
CCB			0.00
-06			0.0499
-07			0.0841
-08			0.0612
-09			0.0306
-10			0.0315
LOQ1			0.0999
33236-01			0.0484
33502-02			0.171
30117-08			0.0762
CCV			1.05
CCB			0.00

To Page No. _

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

From Page No. ____

Tube	Sample	Volume	Final Vol	Block	Comments
					6/18/24 4:44
1	Blank	50mL	50mL	Phenol #2	
2	LCS				10mL F031724-100ppm
3	31465-01				
4	33035-01				
5	-02				
6	-03				
7	-Dup3				
8	-MS03				0.5mL F031724-100pp
9	-04				
10	-05				
11	-06			Phenol #3	
12	-07				
13	-08				
14	-09				
15	-10				
16	LOQ1				0.05mL F031724-100p
17	33236-01				
18	33502-02				
19	32117-08				

To Page No. _

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/20/24 11:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.276	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.049	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 18:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.061	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.068	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.141	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.043	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/18/24 19:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936011-1	**Date Collected**	: NA
Client ID	: WG1936011-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/18/24 18:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936011-3	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SRDUP	**Date Received**	: 06/12/24
Sample Location	:	**Date Analyzed**	: 06/18/24 18:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS061824-WG1936011	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/18/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936383-1	**Date Collected**	: NA
Client ID	: WG1936383-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/20/24 11:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1936383-3	**Date Collected**	: 06/13/24 09:00
Client ID	: WG1936383-3 DUP	**Date Received**	: 06/13/24
Sample Location	:	**Date Analyzed**	: 06/20/24 11:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062024-WG1936383.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/19/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	20-Jun-2024 11:42:29
Tray Number:	2
Tray Name:	WG1936383

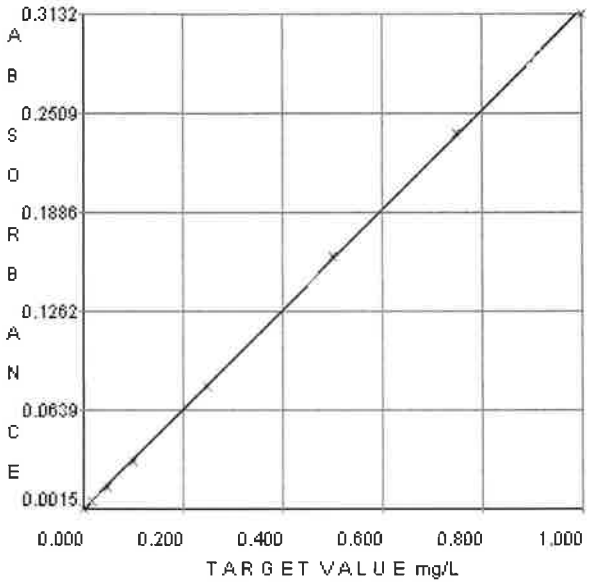
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0015	0.001	0.000	
S90	0.0070	0.018	0.020	-7.68
S91	0.0161	0.047	0.050	-5.30
S92	0.0319	0.098	0.100	-2.22
S93	0.0793	0.248	0.250	-0.61
S94	0.1615	0.510	0.500	1.91
S95	0.2387	0.755	0.750	0.69
S96	0.3132	0.992	1.000	-0.79
S0	0.0017	0.002	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-3.743618E-003
b =:	3.179080E+000
Date & Time:	20-Jun-2024 09:06:50

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	061324-tp color	Maeve Flaherty	04-Jul-2024 22:00:00
TP ascorbic	061924-aa	E ASAMOAH	26-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
2	ICV	ICV	0.501	mg/L	0.158854			EYA	20-Jun-2024 11:13:27
3	ICB	ICB	0.000	mg/L	0.001277			EYA	20-Jun-2024 11:14:35
4	U1	WG1936383-1O	-0.000ELL	mg/L	0.001113			EYA	20-Jun-2024 11:15:43
5	U2	WG1936383-2O	0.496	mg/L	0.157087			EYA	20-Jun-2024 11:16:50
6	U3	L2433035-01O	0.090	mg/L	0.029356			EYA	20-Jun-2024 11:17:58
7	U4	L2433375-01O	-0.000ELL	mg/L	0.001091			EYA	20-Jun-2024 11:19:06
8	U5	L2433375-02O	0.013	mg/L	0.005250			EYA	20-Jun-2024 11:20:14
9	U6	L2433375-03O	0.013	mg/L	0.005415			EYA	20-Jun-2024 11:21:22
10	U7	L2433375-04O	0.005	mg/L	0.002667			EYA	20-Jun-2024 11:22:30
	CCV	C C V	0.487	mg/L	0.154233			EYA	20-Jun-2024 11:23:38
	CCB	C C B	0.001	mg/L	0.001506			EYA	20-Jun-2024 11:24:48
11	U8	WG1936383-3O	0.004	mg/L	0.002294			EYA	20-Jun-2024 11:25:58

12	U9	WG1936383-4O	0.519	mg/L	0.164278		EYA	20-Jun-2024 11:26:52
13	U10	L2433375-05O	0.005	mg/L	0.002842		EYA	20-Jun-2024 11:27:55
14	U11	L2433375-06O	0.003	mg/L	0.002053		EYA	20-Jun-2024 11:28:48
15	U12	L2433375-07O	0.007	mg/L	0.003325		EYA	20-Jun-2024 11:29:42
16	U13	L2433375-08O	0.019	mg/L	0.007051		EYA	20-Jun-2024 11:30:35
17	U14	L2433686-01O	0.784	mg/L	0.247919		EYA	20-Jun-2024 11:31:29
18	U15	L2433691-01O	0.006	mg/L	0.002919		EYA	20-Jun-2024 11:32:22
19	U16	L2433691-02O	0.009	mg/L	0.004016		EYA	20-Jun-2024 11:33:16
20	U17	L2433691-03O	0.024	mg/L	0.008672		EYA	20-Jun-2024 11:34:10
	CCV	C C V	0.476	mg/L	0.150976		EYA	20-Jun-2024 11:35:03
	CCB	C C B	0.001	mg/L	0.001538		EYA	20-Jun-2024 11:35:58

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	18-Jun-2024 19:24:47
Tray Number:	1
Tray Name:	WG1936011,014

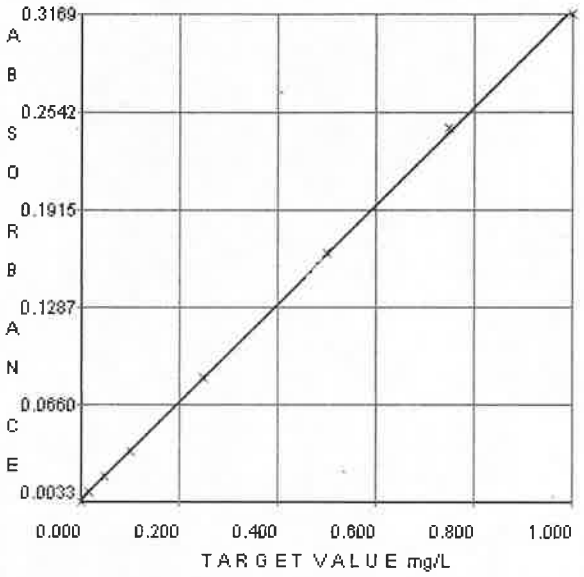
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0033	-0.002	0.000	
S90	0.0096	0.018	0.020	-10.60
S91	0.0194	0.049	0.050	-2.16
S92	0.0354	0.100	0.100	-0.35
S93	0.0833	0.251	0.250	0.49
S94	0.1634	0.505	0.500	0.95
S95	0.2437	0.759	0.750	1.20
S96	0.3169	0.991	1.000	-0.93
S0	0.0035	-0.001	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-1.251413E-002
b =:	3.165288E+000
Date & Time:	18-Jun-2024 12:34:39

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	061324-tp color	Maeve Flaherty	04-Jul-2024 22:00:00
TP ascorbic	061124-aa	Maeve Flaherty	18-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Details	Result	Units	Test Dil.	Cup Dil.	User	Time/Date
2	ICV	ICV	18-JUNE-2024 17:31	0.476	mg/L			EYA	18-Jun-2024 18:33:13
3	ICB	ICB	18-JUNE-2024 17:31	-0.004	mg/L			EYA	18-Jun-2024 18:34:21
4	U1	WG1936011-1	18-JUNE-2024 17:31	-0.005ELL	mg/L			EYA	18-Jun-2024 18:35:28
5	U2	WG1936011-2	18-JUNE-2024 17:31	0.489	mg/L			EYA	18-Jun-2024 18:36:36
6	U3	L2431754-07	18-JUNE-2024 17:31	0.013	mg/L			EYA	18-Jun-2024 18:37:44
7	U4	WG1936014-3	18-JUNE-2024 17:31	0.013	mg/L			EYA	18-Jun-2024 18:38:53
8	U5	WG1936014-4	18-JUNE-2024 17:31	0.503	mg/L			EYA	18-Jun-2024 18:40:01
9	U6	L2431754-08	18-JUNE-2024 17:31	0.154	mg/L			EYA	18-Jun-2024 18:41:09
10	U7	L2431754-09	18-JUNE-2024 17:31	0.926	mg/L			EYA	18-Jun-2024 18:42:17
	CCV	C C V		0.492	mg/L			EYA	18-Jun-2024 18:43:25
	CCB	C C B		-0.003	mg/L			EYA	18-Jun-2024 18:44:35
11	U8	L2432900-01	18-JUNE-2024 17:31	0.442	mg/L			EYA	18-Jun-2024 18:45:45
12	U9	L2432900-02	18-JUNE-2024 17:31	0.550	mg/L			EYA	18-Jun-2024 18:46:53

13	U10	L2432900-03	18-JUNE-2024 17:31	0.482	mg/L		EYA	18-Jun-2024 18:48:00
14	U11	L2432900-04	18-JUNE-2024 17:31	0.426	mg/L		EYA	18-Jun-2024 18:49:08
15	U12	L2432900-05	18-JUNE-2024 17:31	0.547	mg/L		EYA	18-Jun-2024 18:50:15
16	U13	L2432900-06	18-JUNE-2024 17:31	0.216	mg/L		EYA	18-Jun-2024 18:51:22
17	U14	L2432900-07	18-JUNE-2024 17:31	0.228	mg/L		EYA	18-Jun-2024 18:52:29
18	U15	L2433035-01O	18-JUNE-2024 17:31	0.090	mg/L		EYA	18-Jun-2024 18:53:36
19	U16	L2433035-02O	18-JUNE-2024 17:31	0.016	mg/L		EYA	18-Jun-2024 18:54:43
20	U17	L2433035-03O	18-JUNE-2024 17:31	-0.001	mg/L		EYA	18-Jun-2024 18:55:50
	CCV	C C V		0.492	mg/L		EYA	18-Jun-2024 18:56:59
	CCB	C C B		-0.003	mg/L		EYA	18-Jun-2024 18:58:08
21	U18	WG1936011-3O	18-JUNE-2024 17:31	-0.001	mg/L		EYA	18-Jun-2024 18:59:03
22	U19	WG1936011-4O	18-JUNE-2024 17:31	0.505	mg/L		EYA	18-Jun-2024 19:00:05
23	U20	L2433035-04O	18-JUNE-2024 17:31	-0.003ELL	mg/L		EYA	18-Jun-2024 19:00:58
24	U21	L2433035-05O	18-JUNE-2024 17:31	0.020	mg/L		EYA	18-Jun-2024 19:01:52
25	U22	L2433035-06O	18-JUNE-2024 17:31	0.022	mg/L		EYA	18-Jun-2024 19:02:45
26	U23	L2433035-07O	18-JUNE-2024 17:31	0.046	mg/L		EYA	18-Jun-2024 19:03:39
27	U24	L2433035-08O	18-JUNE-2024 17:31	0.014	mg/L		EYA	18-Jun-2024 19:04:32
28	U25	L2433035-09O	18-JUNE-2024 17:31	-0.005ELL	mg/L		EYA	18-Jun-2024 19:05:26
29	U26	L2433035-10O	18-JUNE-2024 17:31	-0.001	mg/L		EYA	18-Jun-2024 19:06:20
	CCV	C C V		0.483	mg/L		EYA	18-Jun-2024 19:07:13
	CCB	C C B		-0.002	mg/L		EYA	18-Jun-2024 19:08:08

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1936011-4	**MS Analysis Date**	: 06/18/24 19:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**ND**	**1.53**	**1.55**	**101**					**80-120**	**15**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2433375-04		
Matrix Spike	: WG1936383-4	**MS Analysis Date**	: 06/20/24 11:26
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.015J	1.53	1.59	104					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03	**Analysis Date**	: 06/18/24 18:55
Dup Sample ID	: WG1936011-3	**DUP Analysis Date**	: 06/18/24 18:59

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	ND	ND	NC	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/20/24 11:22
Dup Sample ID	: WG1936383-3	**DUP Analysis Date**	: 06/20/24 11:25

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.015J	0.012J	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936011-2	**LCS Analysis Date**	: 06/18/24 18:36
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.50**	**98.**					**84-118**	**15**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1936383-2	**LCS Analysis Date**	: 06/20/24 11:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.52**	**99.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

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Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

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Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container / Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

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Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-01	**Date Collected**	: 06/12/24 13:55
Client ID	: MW-8S	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-02	**Date Collected**	: 06/12/24 13:56
Client ID	: MW-8D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 12:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934814K	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.044	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-03	**Date Collected**	: 06/12/24 08:30
Client ID	: MW-1SR	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 12:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-04	**Date Collected**	: 06/12/24 08:34
Client ID	: MW-1DR2	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 13:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-05	**Date Collected**	: 06/12/24 10:30
Client ID	: MP-1	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 13:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.042	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-06	**Date Collected**	: 06/12/24 10:50
Client ID	: MP-1D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.058	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-07	**Date Collected**	: 06/12/24 12:25
Client ID	: PZ-6	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 14:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-08	**Date Collected**	: 06/12/24 12:38
Client ID	: MW-6D	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 14:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.043	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-09	**Date Collected**	: 06/12/24 09:40
Client ID	: EB_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 14:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2433035-10	**Date Collected**	: 06/12/24 12:00
Client ID	: DUP_06122024	**Date Received**	: 06/12/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 06/15/24 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934806-14	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1934814-1	**Date Collected**	: NA
Client ID	: WG1934814-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/15/24 09:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1934814	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

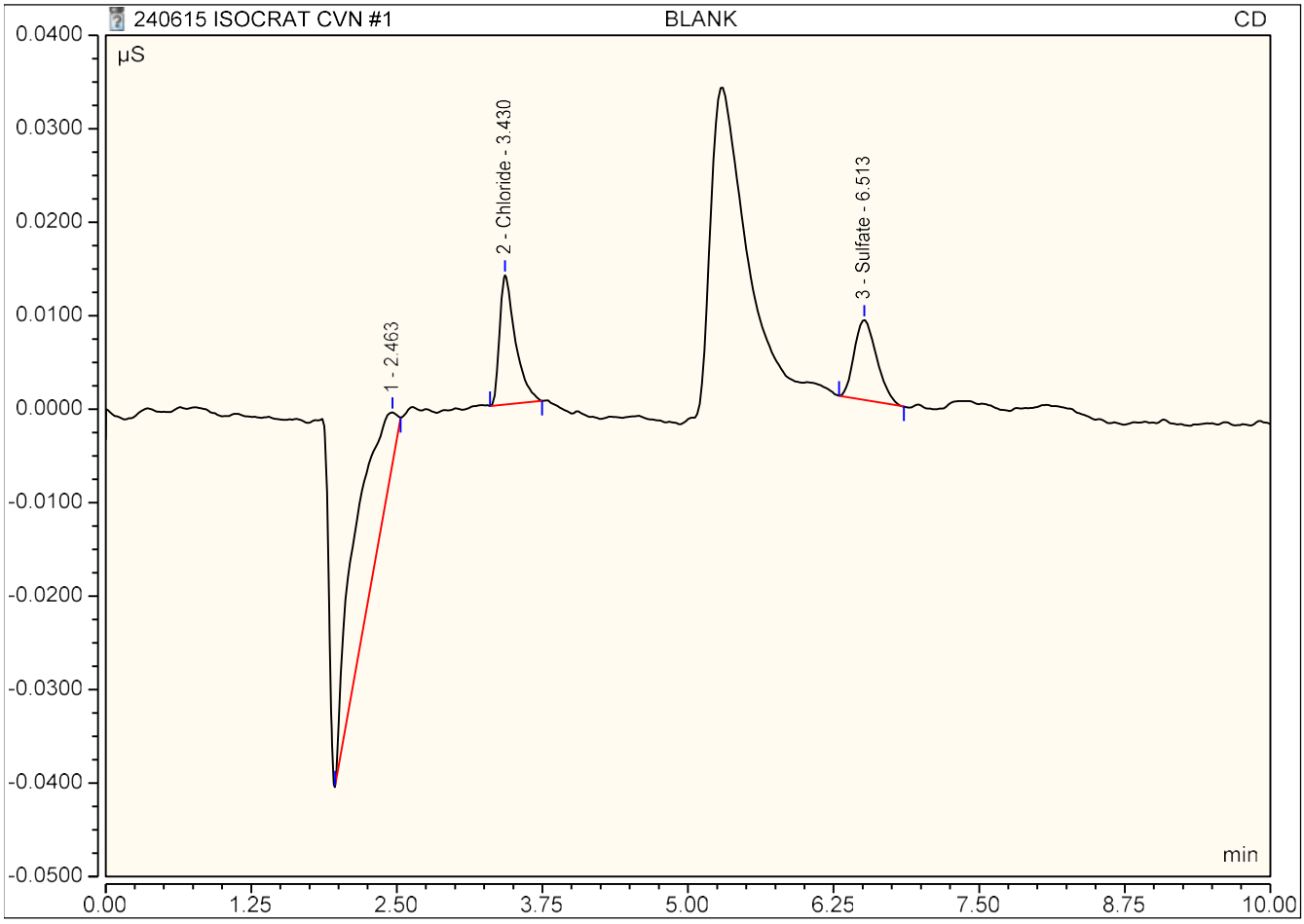
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:46**	*Run Time:*	**10.00**

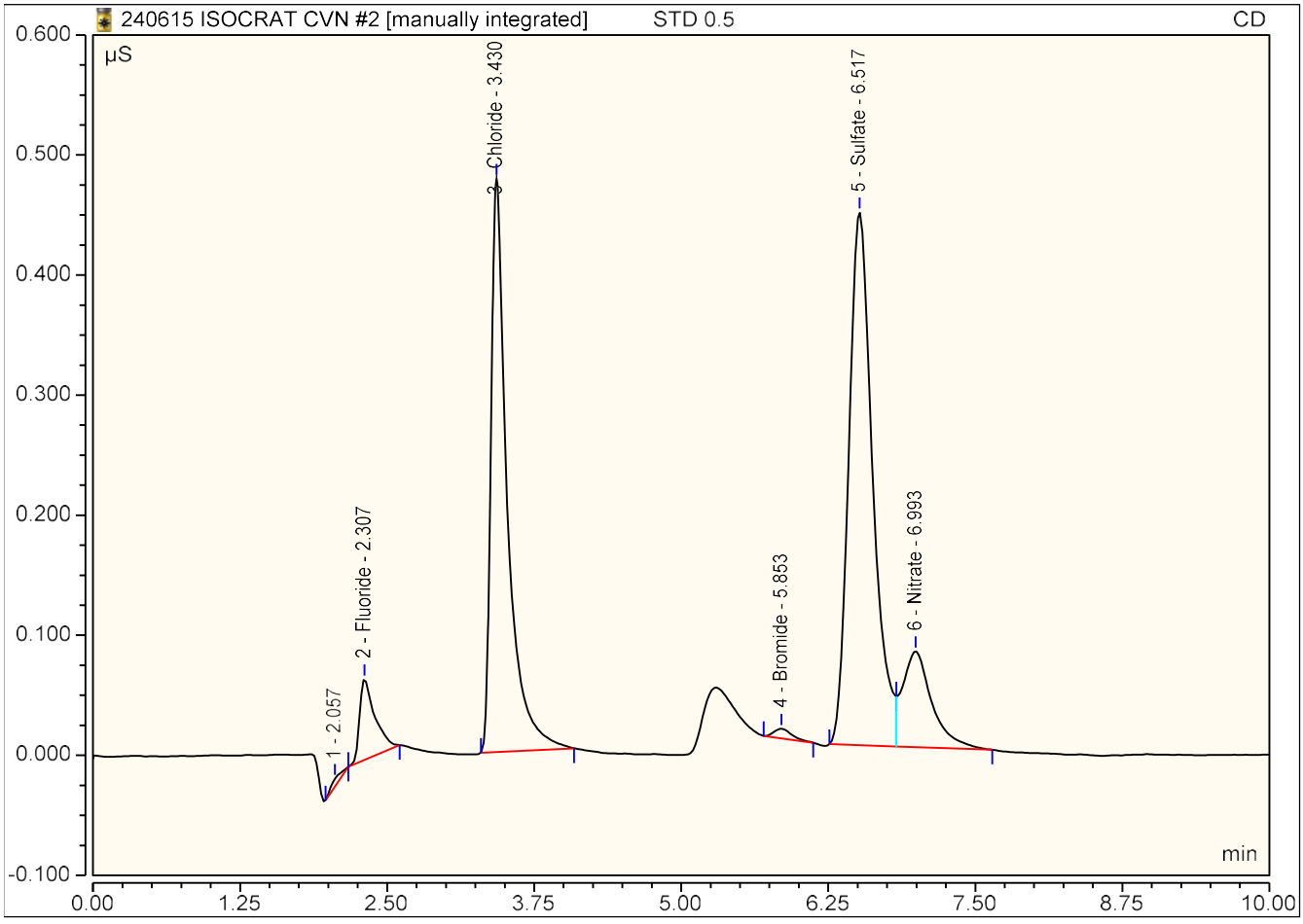
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB	0.002	0.014	0.2384
3	6.51	**Sulfate**	BMB	0.002	0.009	0.4226
TOTAL:				0.00	0.02	0.66



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 16:58**	*Run Time:*	**10.00**

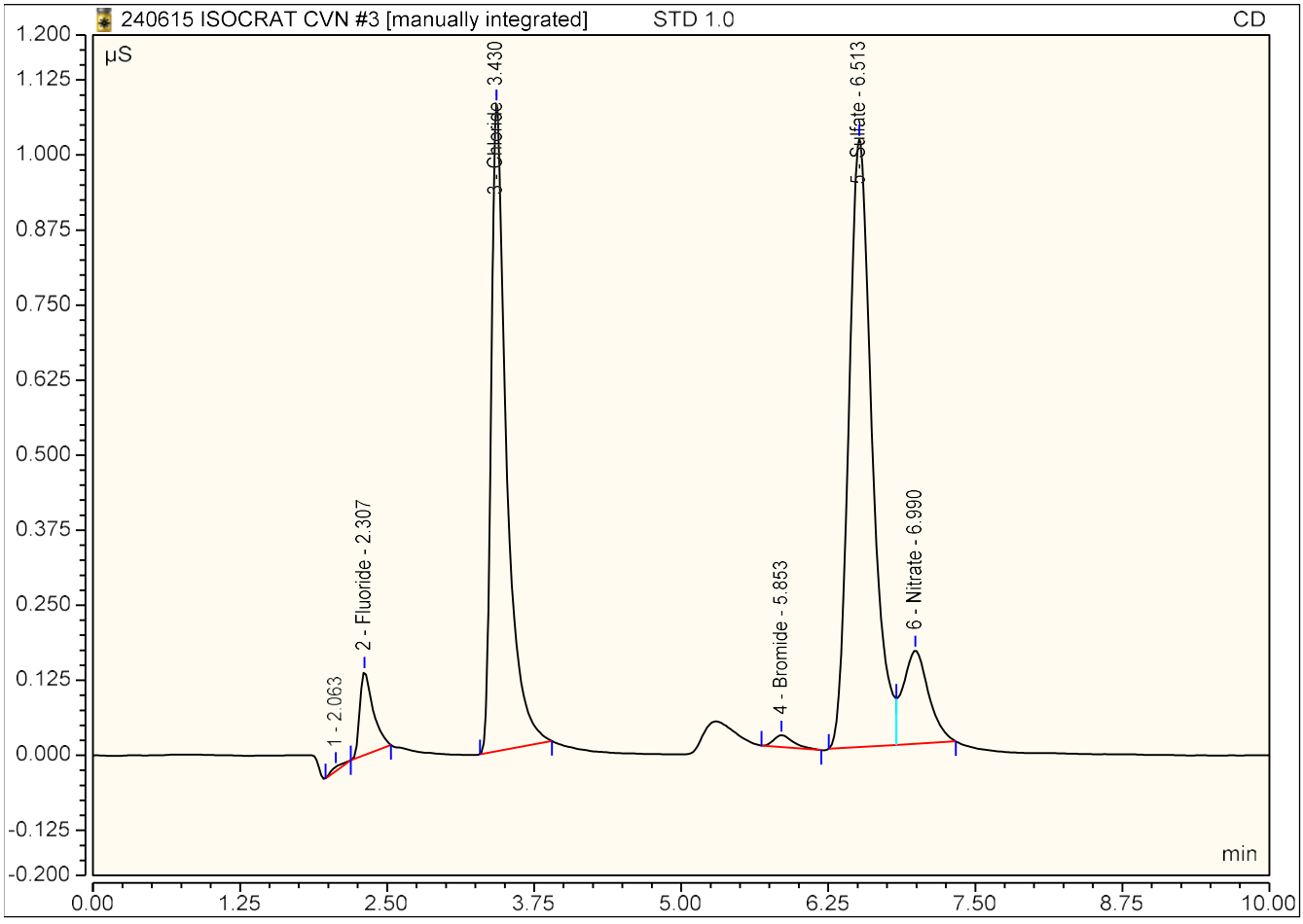
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	bMB*	0.010	0.067	0.0680
3	3.43	**Chloride**	BMB*	0.077	0.478	0.4130
4	5.85	**Bromide**	BMB	0.001	0.008	0.0483
5	6.52	**Sulfate**	BM *	0.105	0.444	0.7547
6	6.99	**Nitrate**	MB*	0.023	0.080	0.0513
TOTAL:				0.22	1.08	1.34



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:10**	*Run Time:*	**10.00**

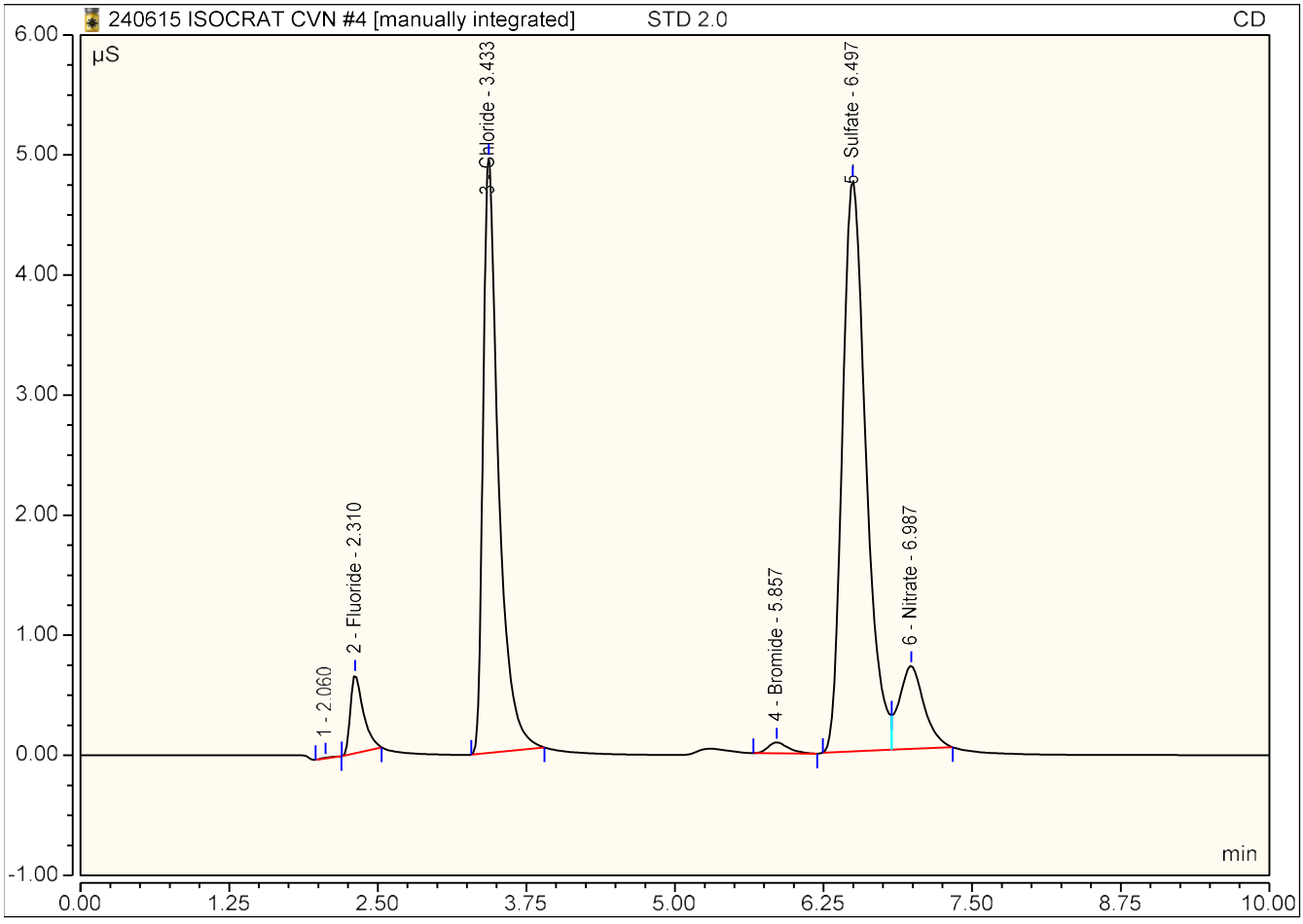
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.018	0.139	0.0818
3	3.43	**Chloride**	BMB*	0.163	1.078	0.6145
4	5.85	**Bromide**	BMB	0.004	0.020	0.0688
5	6.51	**Sulfate**	BM *	0.232	1.012	1.1659
6	6.99	**Nitrate**	MB*	0.039	0.156	0.0661
TOTAL:				0.46	2.40	2.00



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:22**	*Run Time:*	**10.00**

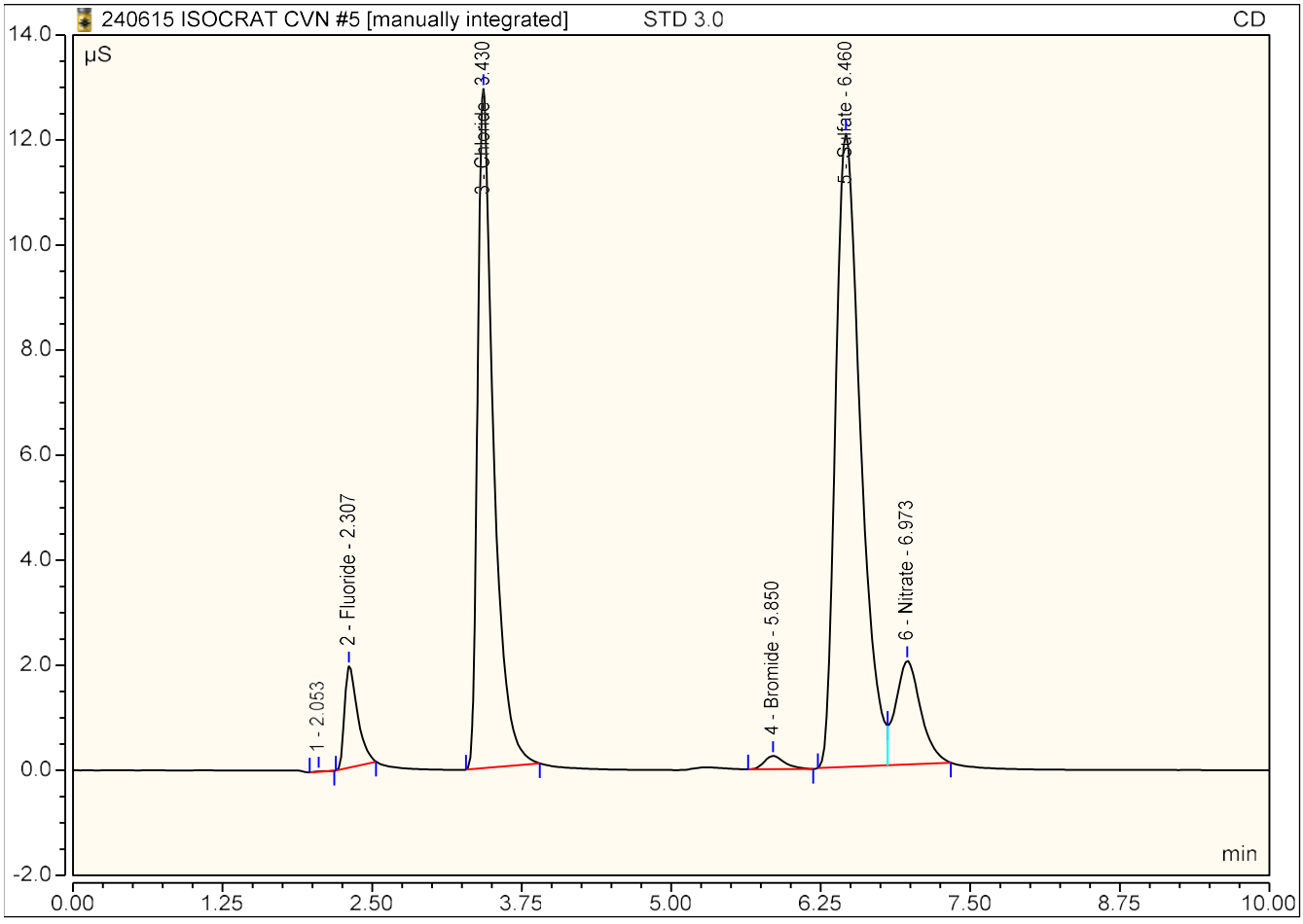
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.083	0.654	0.1890
3	3.43	**Chloride**	BMB*	0.750	4.952	1.9848
4	5.86	**Bromide**	BMB	0.018	0.092	0.1901
5	6.50	**Sulfate**	BM *	1.092	4.757	3.9467
6	6.99	**Nitrate**	MB*	0.168	0.692	0.1826
TOTAL:				2.11	11.15	6.49



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:34**	*Run Time:*	**10.00**

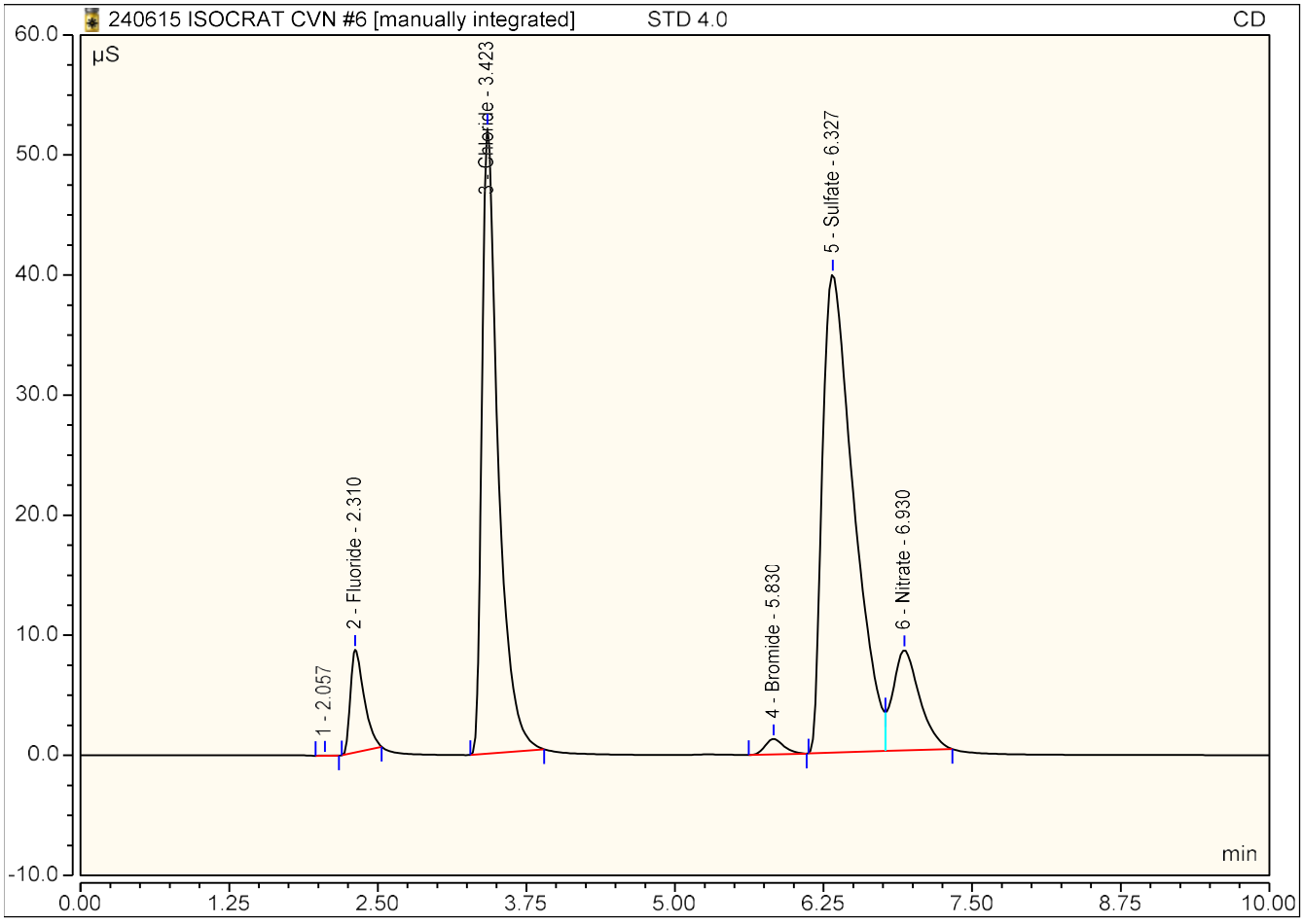
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.244	1.931	0.4596
3	3.43	**Chloride**	BMB*	1.999	12.931	4.9033
4	5.85	**Bromide**	BMB	0.050	0.253	0.4567
5	6.46	**Sulfate**	BM *	2.926	12.055	9.8731
6	6.97	**Nitrate**	MB*	0.482	1.971	0.4653
TOTAL:				5.70	29.14	16.16



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:46**	*Run Time:*	**10.00**

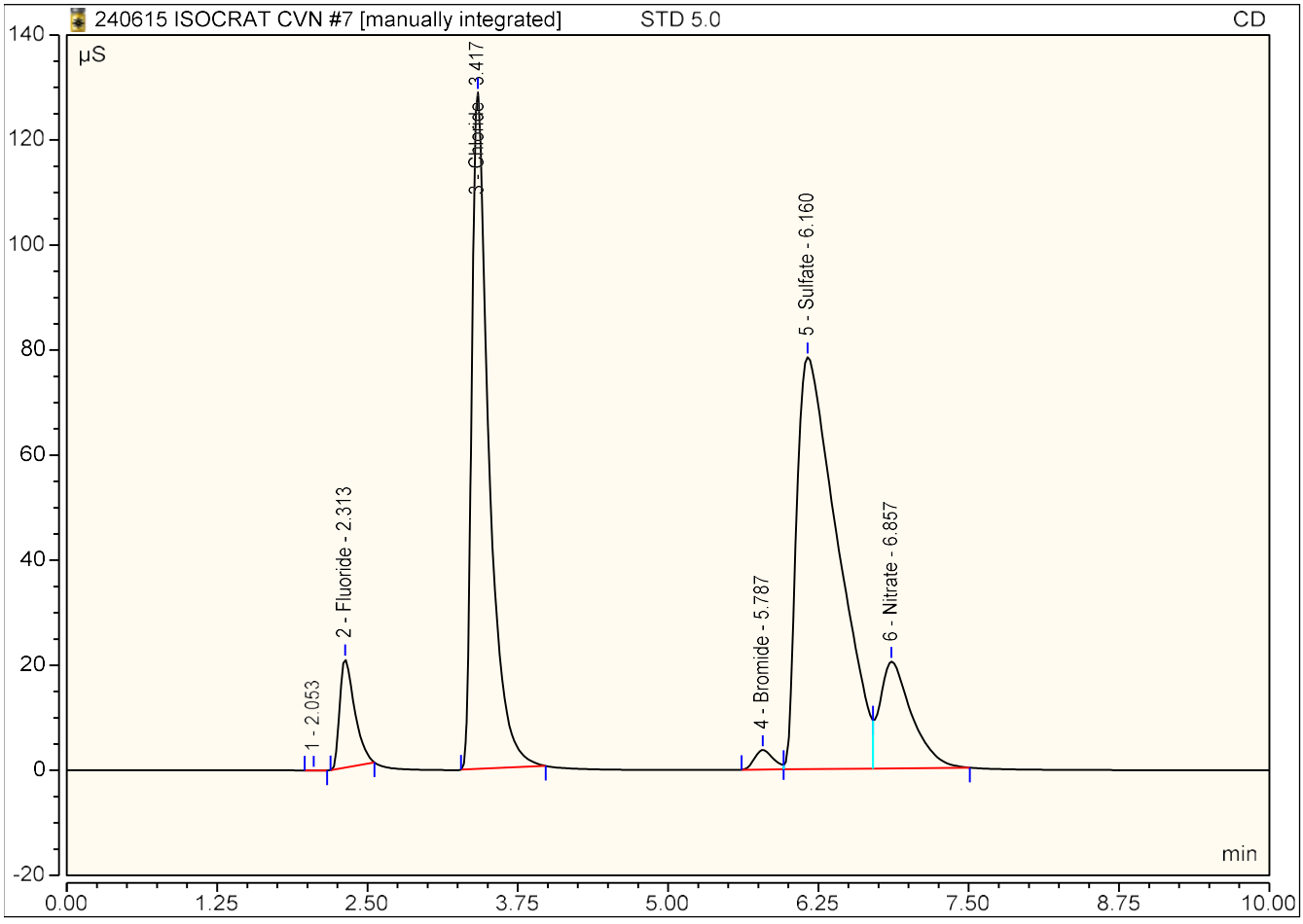
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.138	8.552	1.9544
3	3.42	**Chloride**	BMB*	8.338	52.076	19.7101
4	5.83	**Bromide**	BMB	0.236	1.280	2.0111
5	6.33	**Sulfate**	BM *	12.119	39.833	39.5794
6	6.93	**Nitrate**	MB*	2.193	8.359	2.0097
TOTAL:				24.02	110.10	65.26



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	2.972	20.624	5.0222
3	3.42	**Chloride**	BMB*	21.360	128.769	50.1243
4	5.79	**Bromide**	BM *	0.676	3.745	5.7054
5	6.16	**Sulfate**	M *	30.872	78.460	100.1801
6	6.86	**Nitrate**	MB*	6.286	20.353	5.7047
TOTAL:				62.17	251.95	166.74



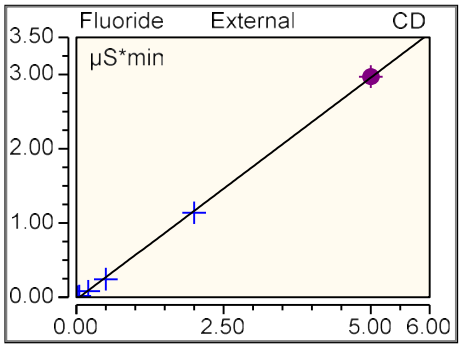
Calibration Batch Report

Sequence:	**240615 ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**12-Jun-2024 / 17:58**	*Run Time:*	**10**

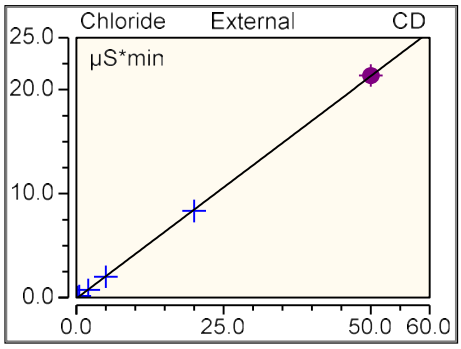
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.030	0.598	0.000	99.9626
Chloride	Area	in, WithOffse	6.000	-0.100	0.428	0.000	99.9923
Bromide	Area	in, WithOffse	5.000	-0.004	0.119	0.000	99.8913
Sulfate	Area	in, WithOffse	6.000	-0.129	0.309	0.000	99.9958
Nitrate	Area	in, WithOffse	5.000	-0.034	1.108	0.000	99.9073
		AVERAGE:		-0.0595	0.5125	0.0000	99.9499

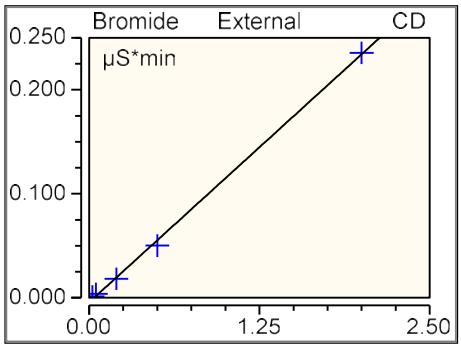
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.307	0.0102	0.067	0.068
STD 1.0	2.307	0.0184	0.139	0.082
STD 2.0	2.310	0.0825	0.654	0.189
STD 3.0	2.307	0.2443	1.931	0.460
STD 4.0	2.310	1.1378	8.552	1.954
STD 5.0	2.313	2.9718	20.624	5.022
Average	2.309			
Rel. Std. Dev.	0.118 %			



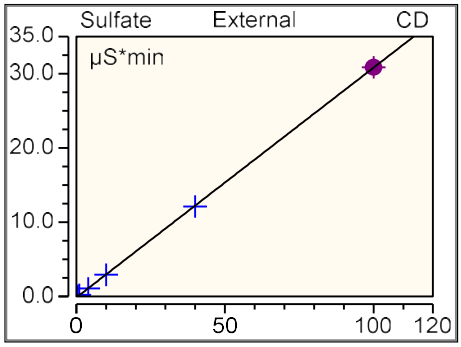
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.430	0.0769	0.478	0.413
STD 1.0	3.430	0.1631	1.078	0.614
STD 2.0	3.433	0.7498	4.952	1.985
STD 3.0	3.430	1.9993	12.931	4.903
STD 4.0	3.423	8.3385	52.076	19.710
STD 5.0	3.417	21.3595	128.769	50.124
Average	3.427			
Rel. Std. Dev.	0.178 %			



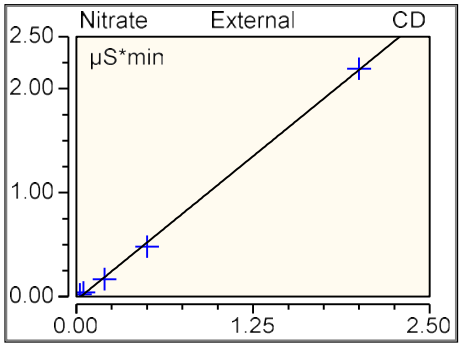
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.853	0.0014	0.008	0.048
STD 1.0	5.853	0.0038	0.020	0.069
STD 2.0	5.857	0.0183	0.092	0.190
STD 3.0	5.850	0.0501	0.253	0.457
STD 4.0	5.830	0.2356	1.280	2.011
STD 5.0	5.787	0.6763	3.745	5.705
Average	5.838			
Rel. Std. Dev.	0.463 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.517	0.1047	0.444	0.755
STD 1.0	6.513	0.2319	1.012	1.166
STD 2.0	6.497	1.0925	4.757	3.947
STD 3.0	6.460	2.9264	12.055	9.873
STD 4.0	6.327	12.1190	39.833	39.579
STD 5.0	6.160	30.8719	78.460	100.180
Average	6.412			
Rel. Std. Dev.	2.222 %			



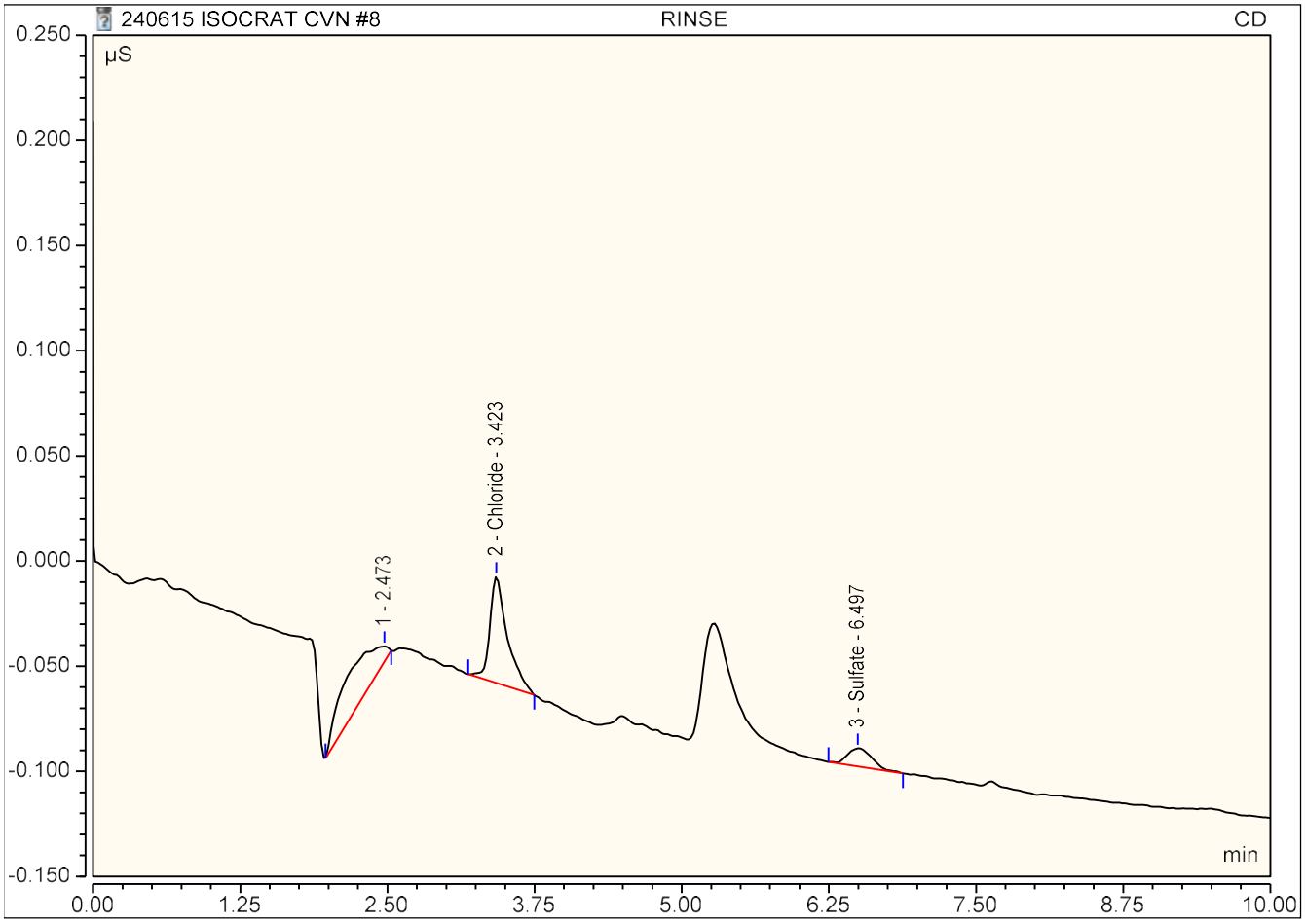
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.993	0.0229	0.080	0.051
STD 1.0	6.990	0.0393	0.156	0.066
STD 2.0	6.987	0.1684	0.692	0.183
STD 3.0	6.973	0.4816	1.971	0.465
STD 4.0	6.930	2.1927	8.359	2.010
STD 5.0	6.857	6.2864	20.353	5.705
Average	6.955			
Rel. Std. Dev.	0.770 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 08:27**	*Run Time:*	**10.00**

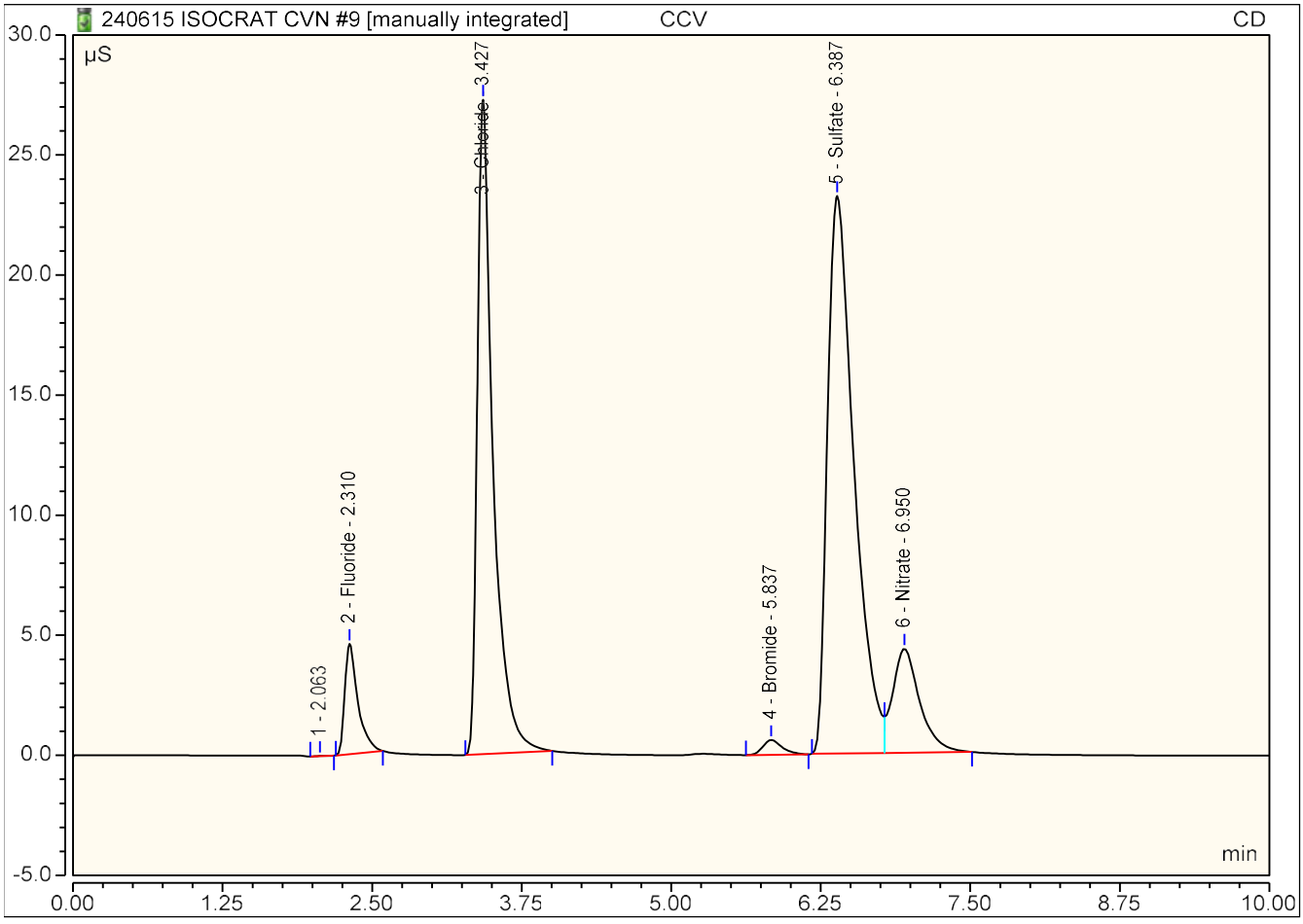
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.009	0.050	0.2538
3	6.50	**Sulfate**	BMB	0.002	0.009	0.4231
TOTAL:				0.01	0.06	0.68



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 08:39**	*Run Time:*	**10.00**

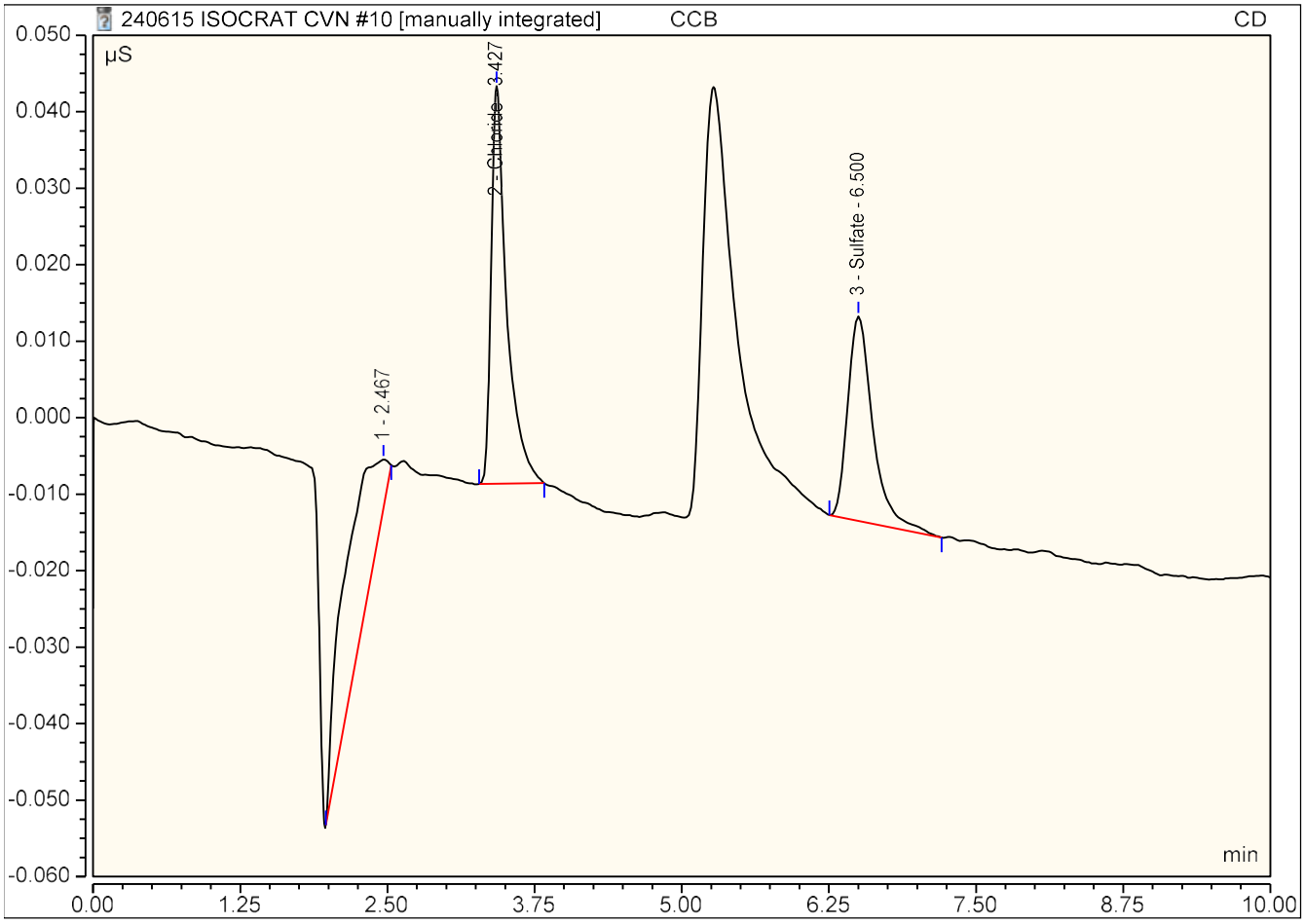
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.582	4.591	1.0245
3	3.43	**Chloride**	BMB*	4.142	27.255	9.9075
4	5.84	**Bromide**	BMB	0.116	0.621	1.0105
5	6.39	**Sulfate**	BM *	5.974	23.214	19.7203
6	6.95	**Nitrate**	MB*	1.138	4.336	1.0573
TOTAL:				11.95	60.02	32.72



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 08:51**	*Run Time:*	**10.00**

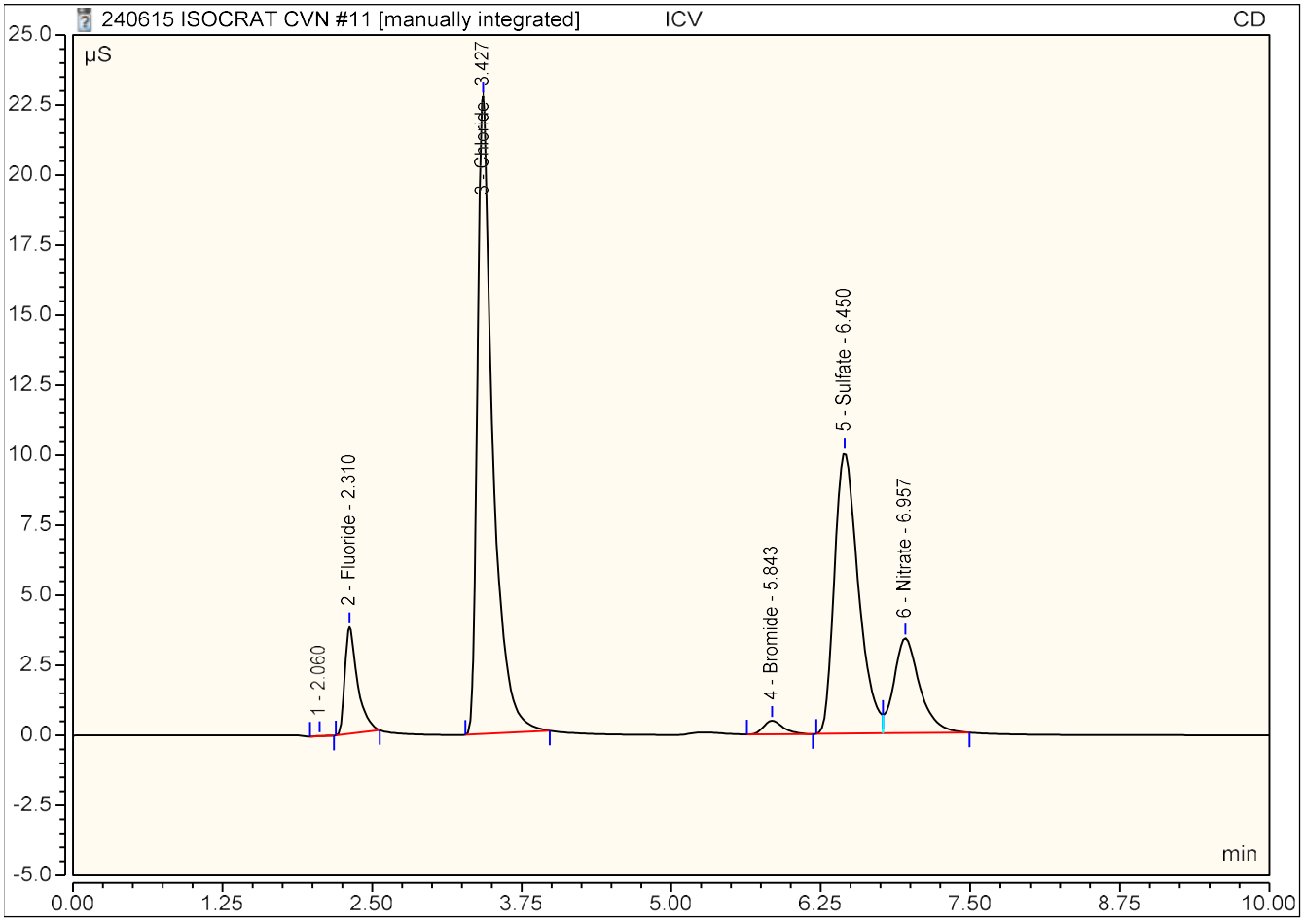
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.43	**Chloride**	BMB*	0.008	0.052	0.2519
3	6.50	**Sulfate**	BMB	0.007	0.027	0.4378
TOTAL:				0.01	0.08	0.69



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 09:03**	*Run Time:*	**10.00**

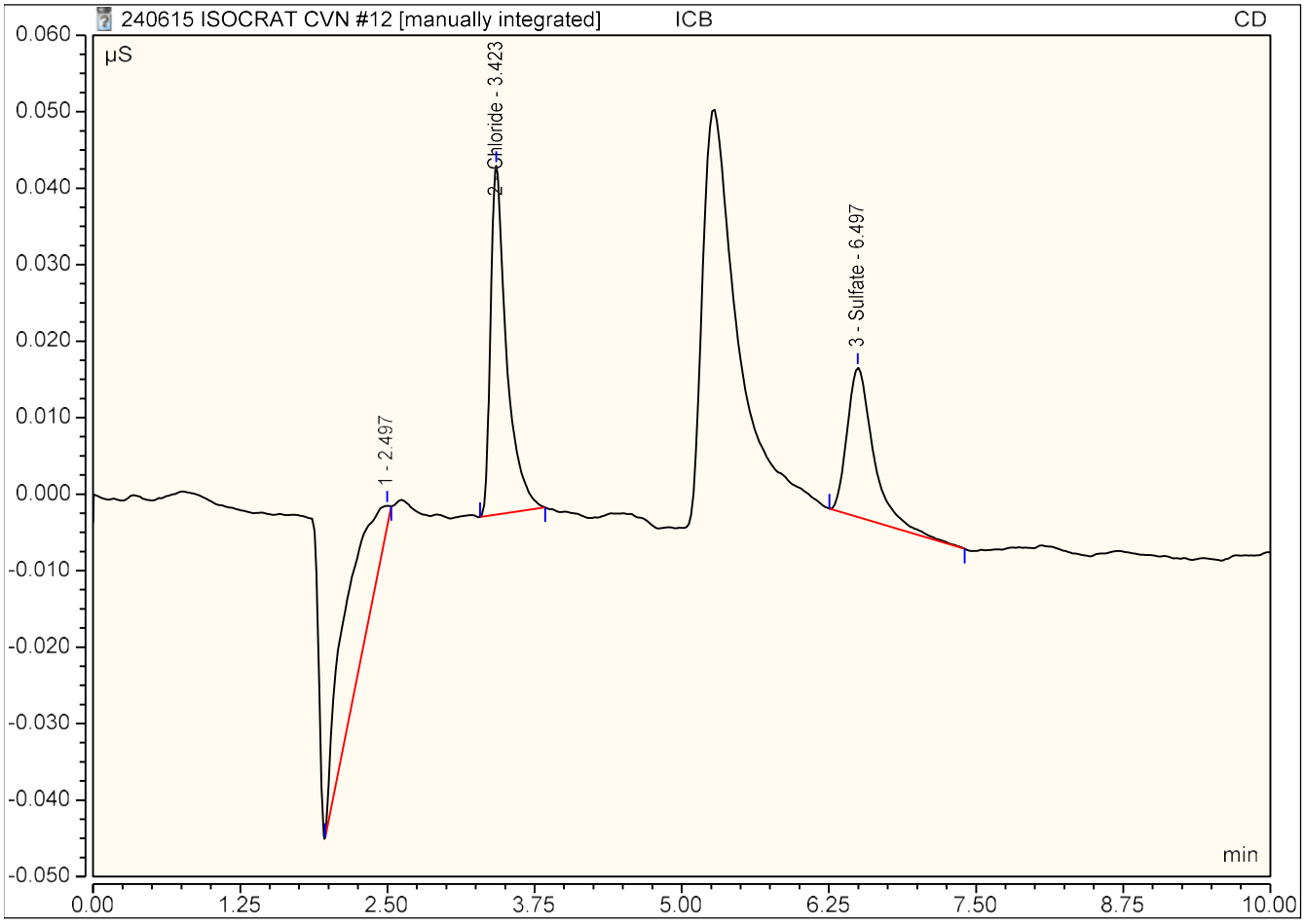
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.464	3.812	0.8272
3	3.43	**Chloride**	BMB*	3.401	22.759	8.1764
4	5.84	**Bromide**	BMB	0.093	0.488	0.8175
5	6.45	**Sulfate**	BM *	2.333	10.036	7.9553
6	6.96	**Nitrate**	MB*	0.848	3.388	0.7963
TOTAL:				7.14	40.48	18.57



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 09:15**	*Run Time:*	**10.00**

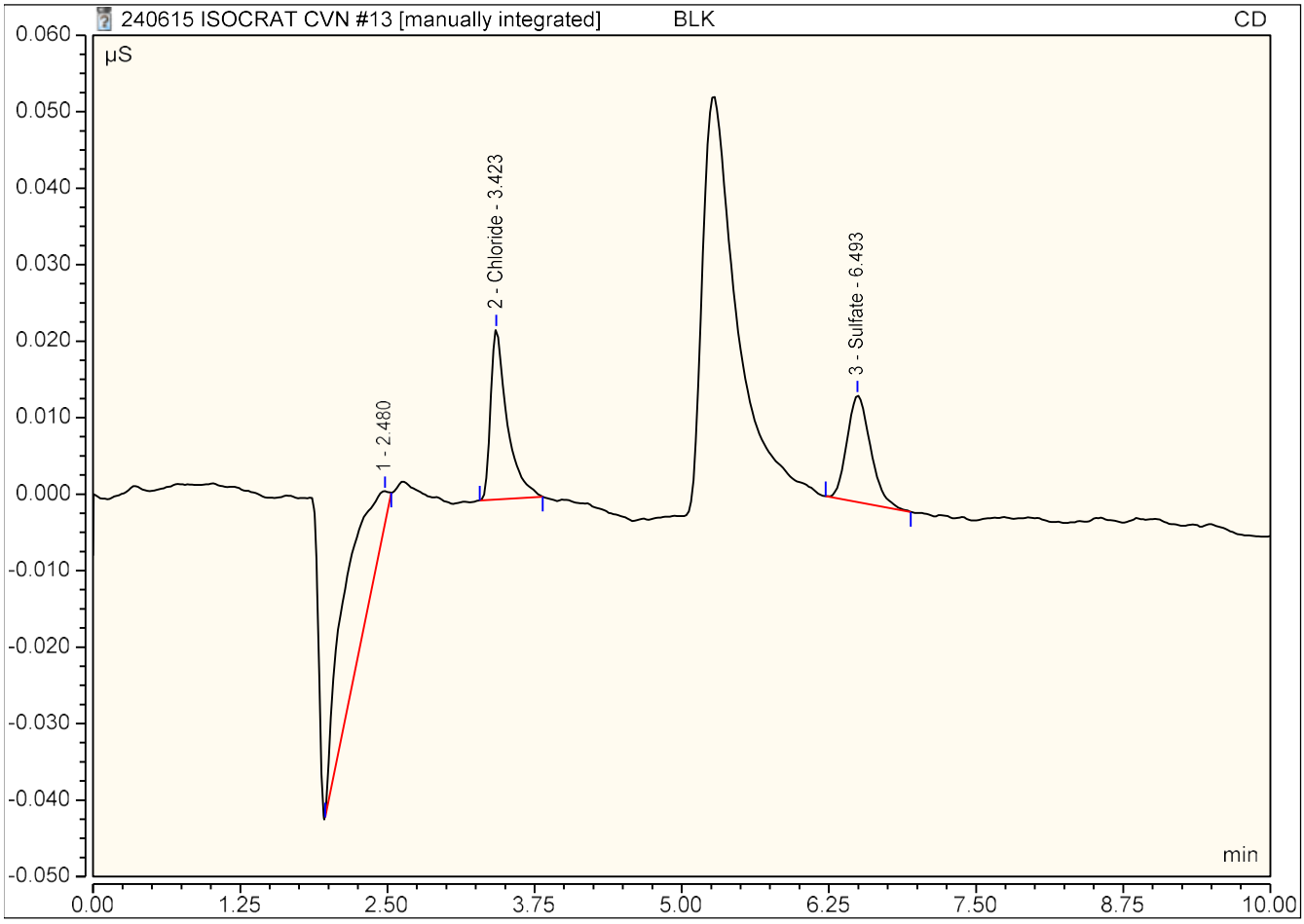
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.007	0.046	0.2501
3	6.50	**Sulfate**	BMB	0.005	0.020	0.4329
TOTAL:				0.01	0.07	0.68



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 09:27**	*Run Time:*	**10.00**

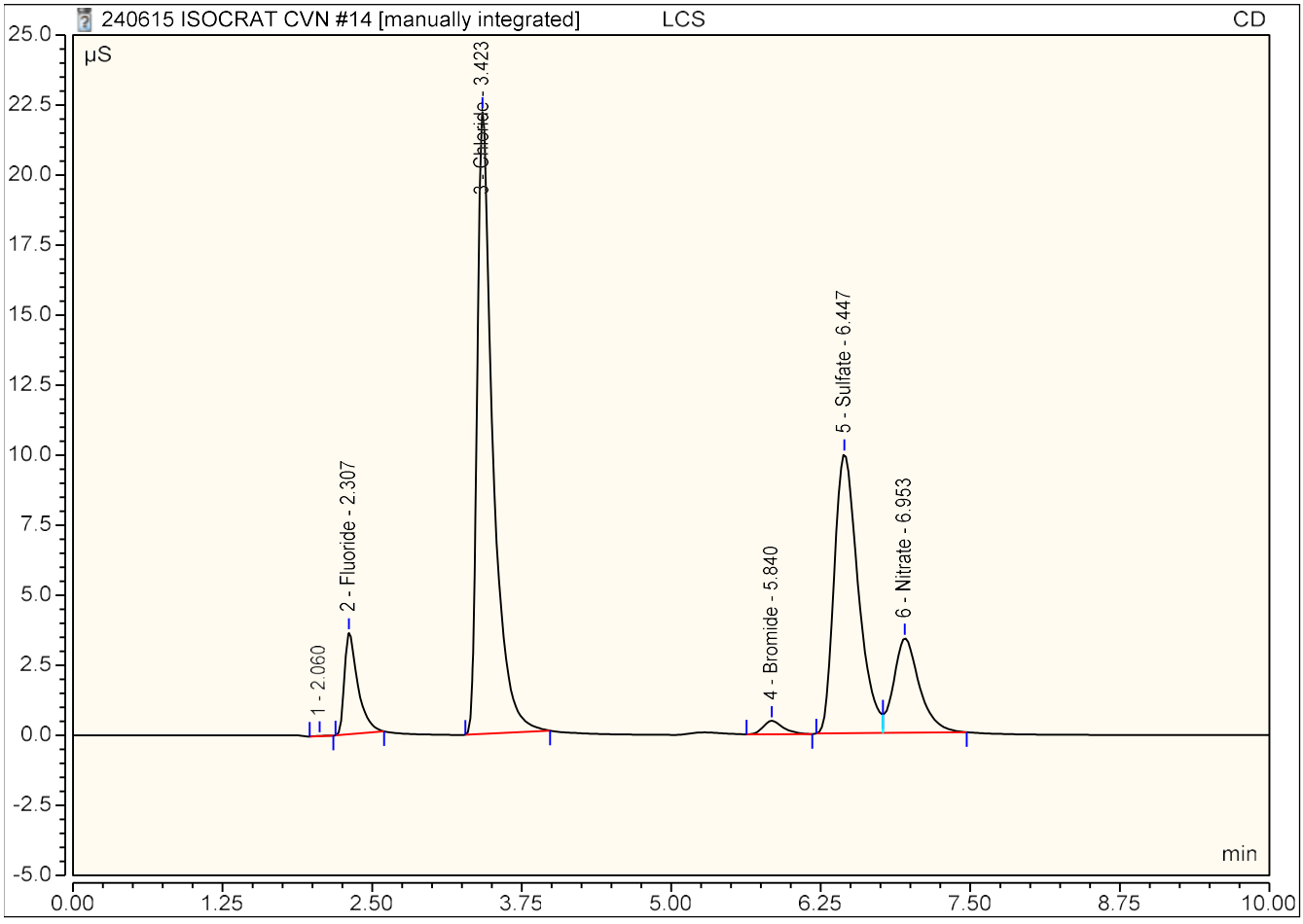
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.004	0.022	0.2419
3	6.49	**Sulfate**	BMB	0.003	0.014	0.4268
TOTAL:				0.01	0.04	0.67



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 09:40**	*Run Time:*	**10.00**

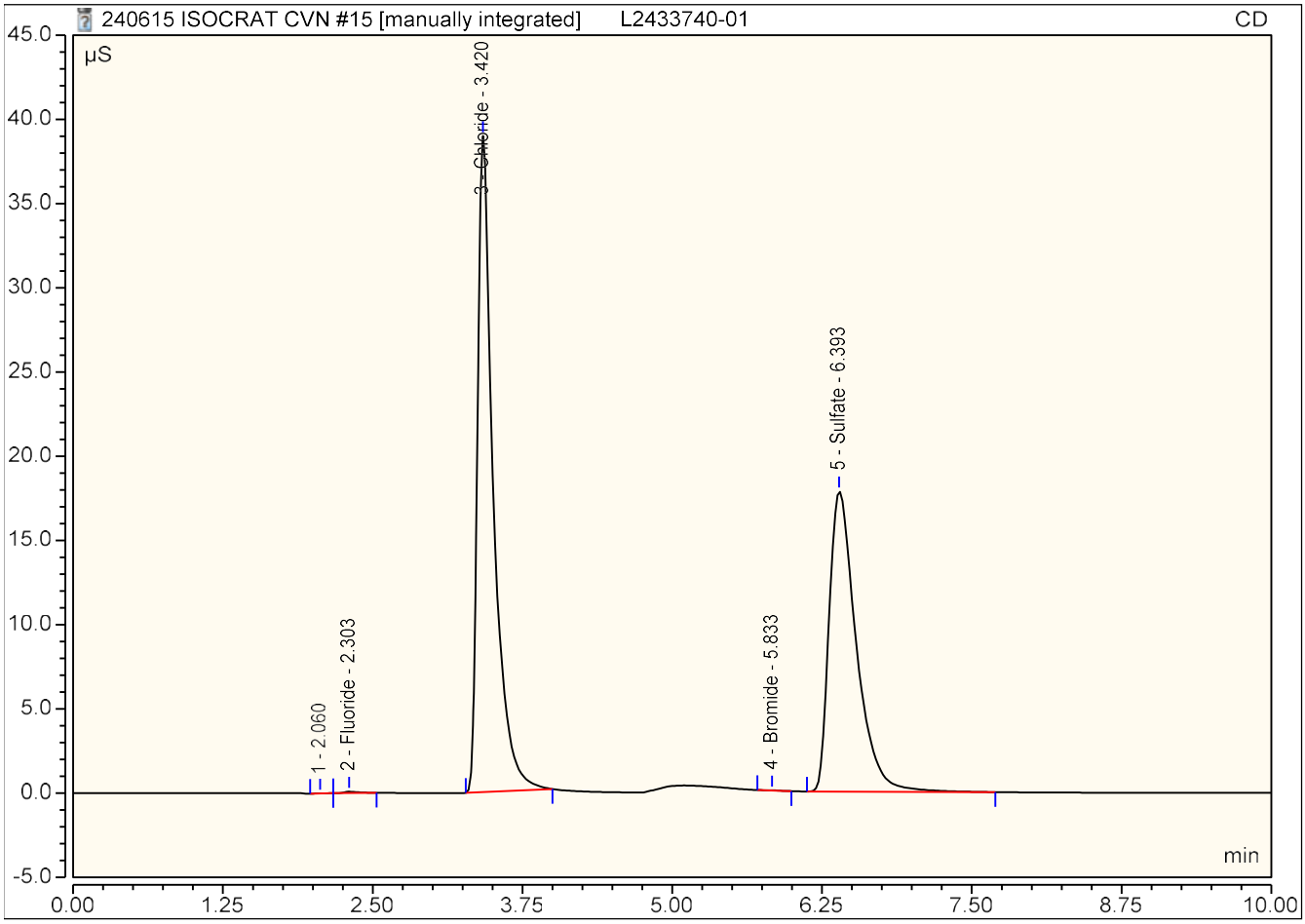
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.470	3.619	0.8368
3	3.42	**Chloride**	BMB*	3.393	22.198	8.1581
4	5.84	**Bromide**	BMB	0.092	0.476	0.8039
5	6.45	**Sulfate**	BM *	2.326	9.967	7.9317
6	6.95	**Nitrate**	MB*	0.840	3.368	0.7888
TOTAL:				7.12	39.63	18.52



Peak Integration Report

Sample Name:	**L2433740-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 09:52**	*Run Time:*	**10.00**

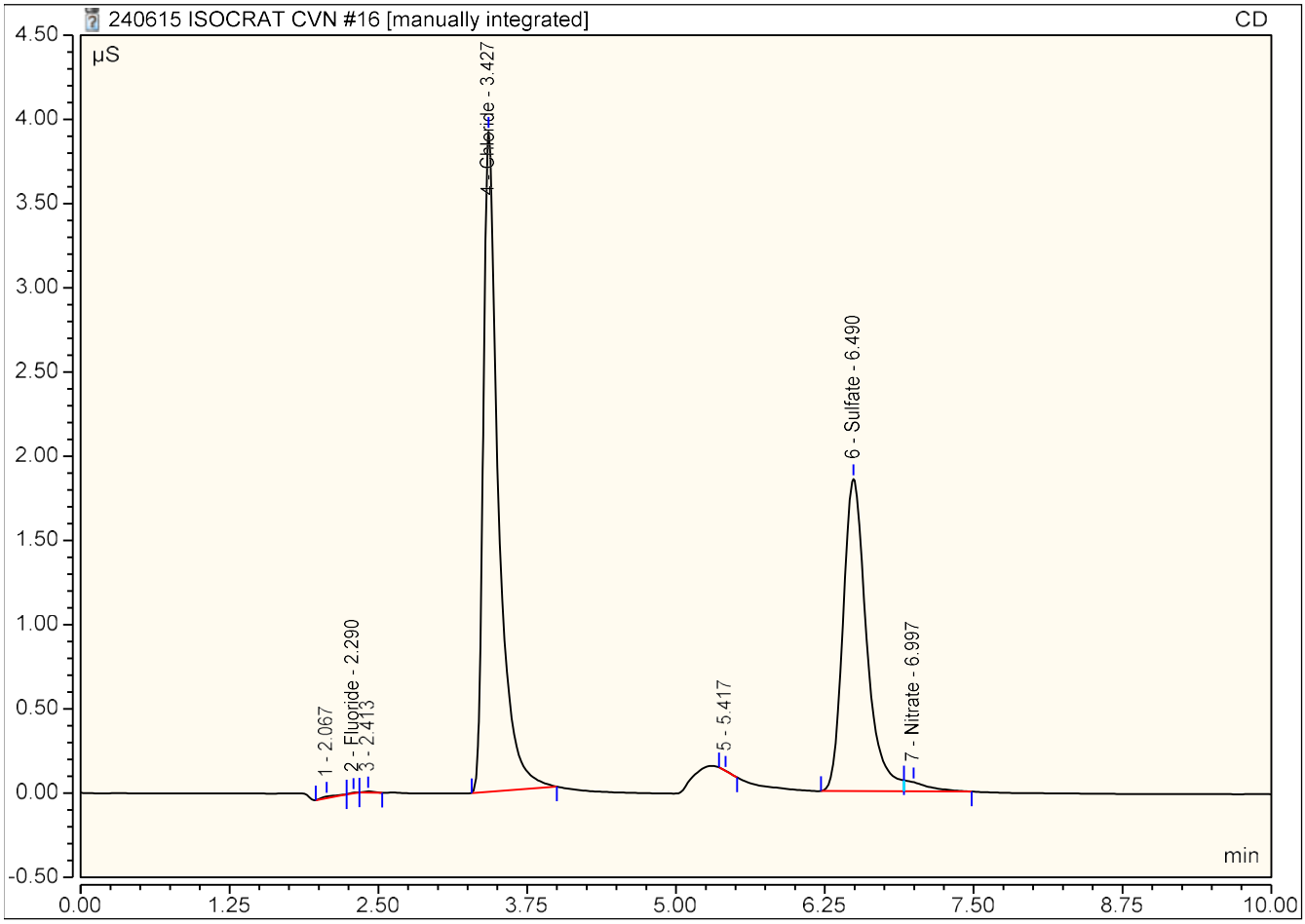
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.088	0.0709
3	3.42	**Chloride**	BMB*	5.960	38.946	14.1537
4	5.83	**Bromide**	BMB	0.002	0.012	0.0497
5	6.39	**Sulfate**	BMB	4.674	17.830	15.5213
TOTAL:				10.65	56.88	29.80



Peak Integration Report

Sample Name:	**XL2433740-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 10:04**	*Run Time:*	**10.00**

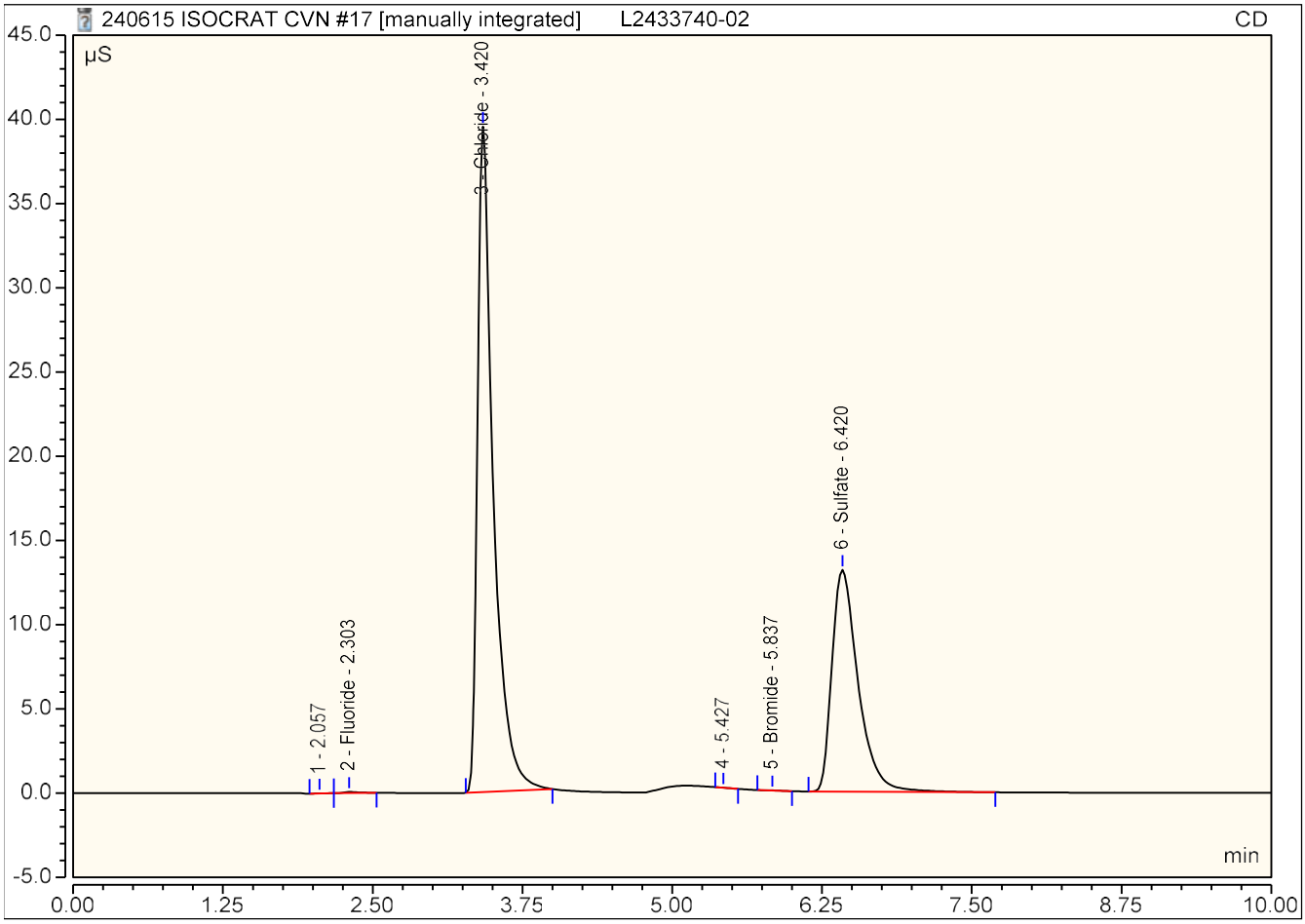
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.000	0.004	0.5133
4	3.43	**Chloride**	BMB*	0.580	3.919	15.8893
6	6.49	**Sulfate**	BM *	0.424	1.853	17.8547
7	7.00	**Nitrate**	MB*	0.014	0.054	0.4300
TOTAL:				1.02	5.83	34.69



Peak Integration Report

Sample Name:	**L2433740-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 10:16**	*Run Time:*	**10.00**

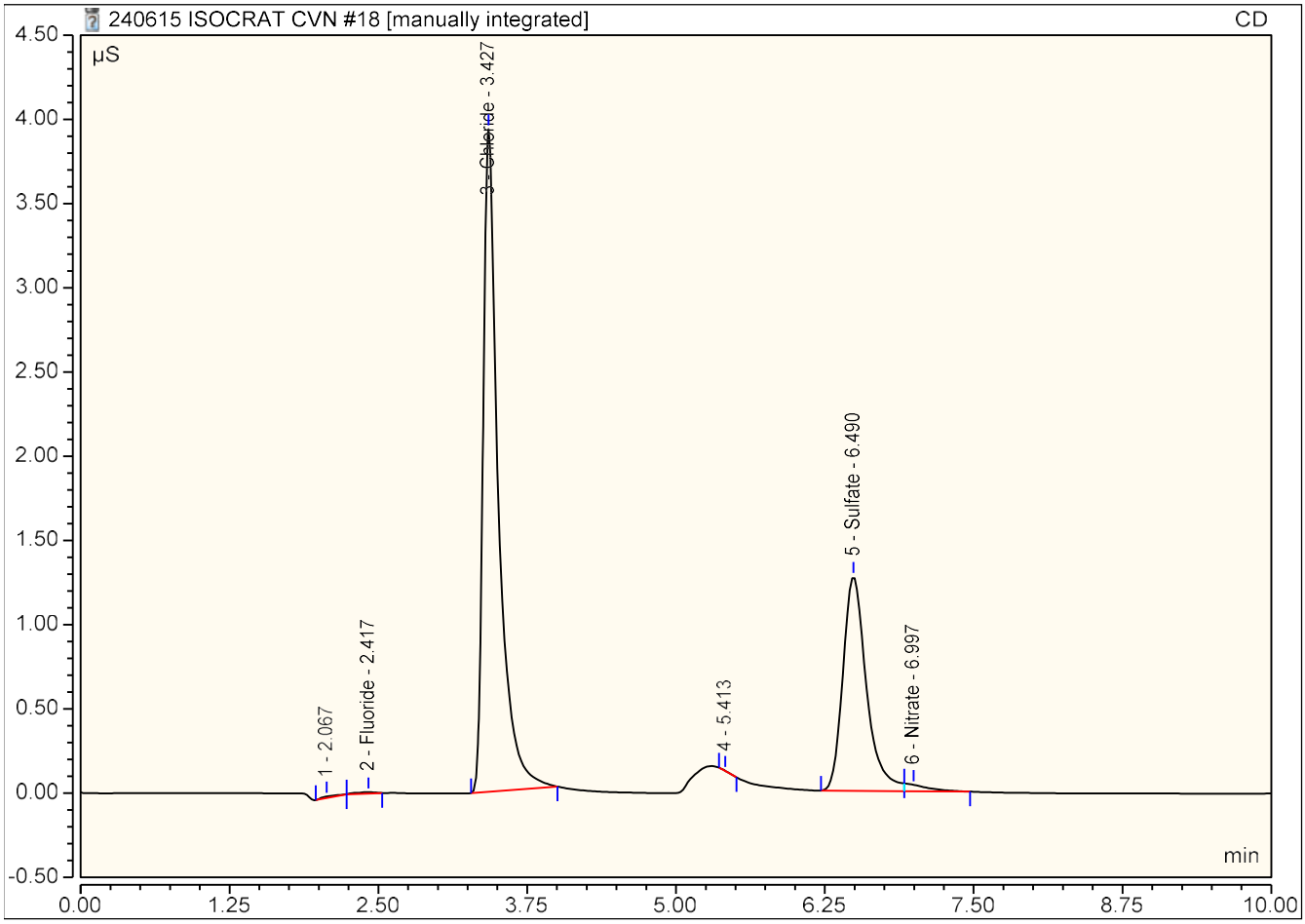
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.070	0.0673
3	3.42	**Chloride**	BMB*	6.040	39.509	14.3413
5	5.84	**Bromide**	BMB	0.002	0.012	0.0499
6	6.42	**Sulfate**	BMB	3.337	13.169	11.2009
TOTAL:				9.39	52.76	25.66



Peak Integration Report

Sample Name:	**XL2433740-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 10:28**	*Run Time:*	**10.00**

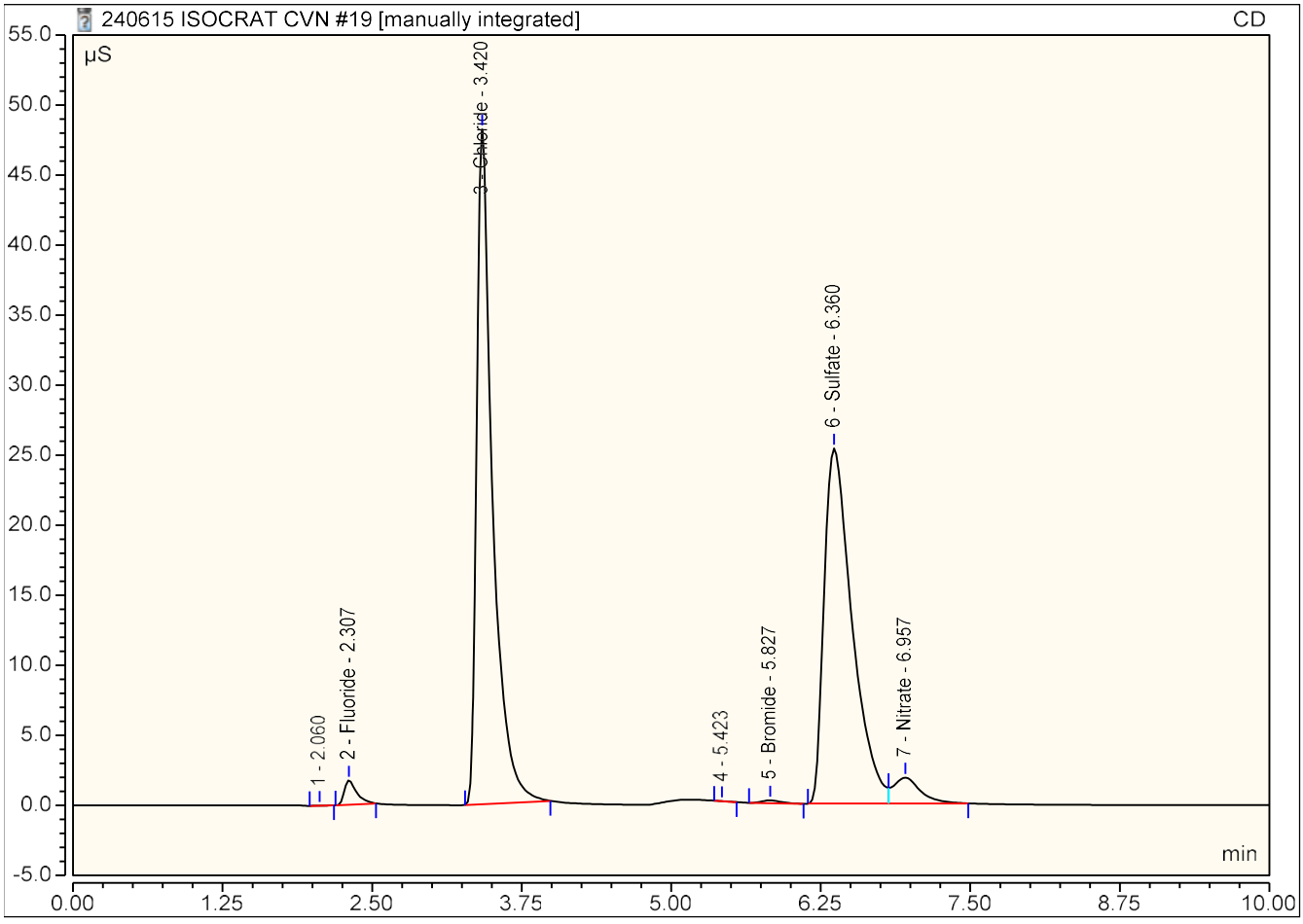
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.002	0.008	0.5372
3	3.43	**Chloride**	BMB*	0.584	3.934	15.9732
5	6.49	**Sulfate**	BM *	0.291	1.271	13.5796
6	7.00	**Nitrate**	MB*	0.009	0.038	0.3909
TOTAL:				0.89	5.25	30.48



Peak Integration Report

Sample Name:	**L2433740-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 10:40**	*Run Time:*	**10.00**

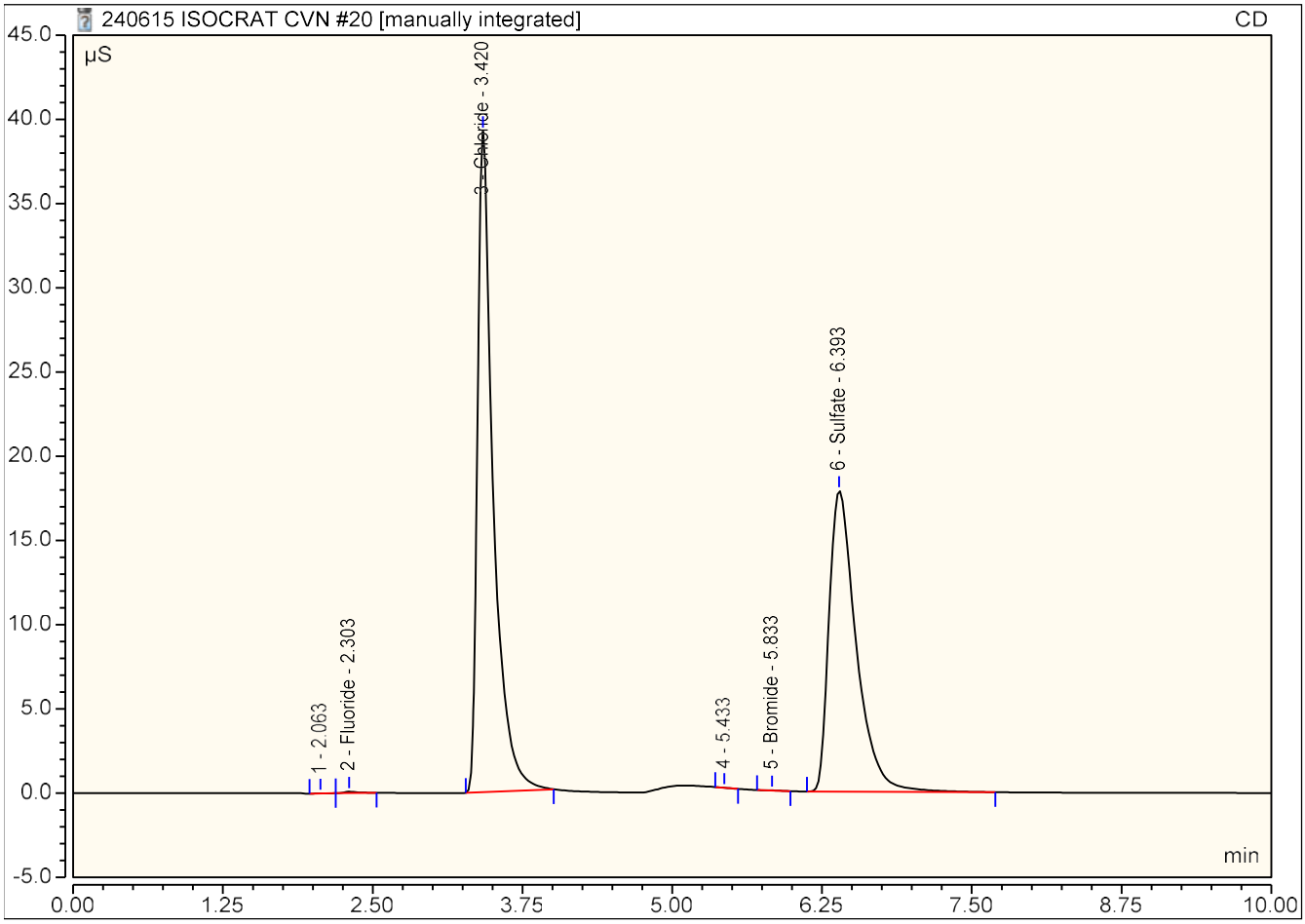
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.210	1.738	0.4020
3	3.42	**Chloride**	BMB*	7.420	48.190	17.5650
5	5.83	**Bromide**	BMB	0.038	0.209	0.3519
6	6.36	**Sulfate**	BM *	6.874	25.360	22.6286
7	6.96	**Nitrate**	MB*	0.487	1.854	0.4700
TOTAL:				15.03	77.35	41.42



Peak Integration Report

Sample Name:	**L2433740-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 10:52**	*Run Time:*	**10.00**

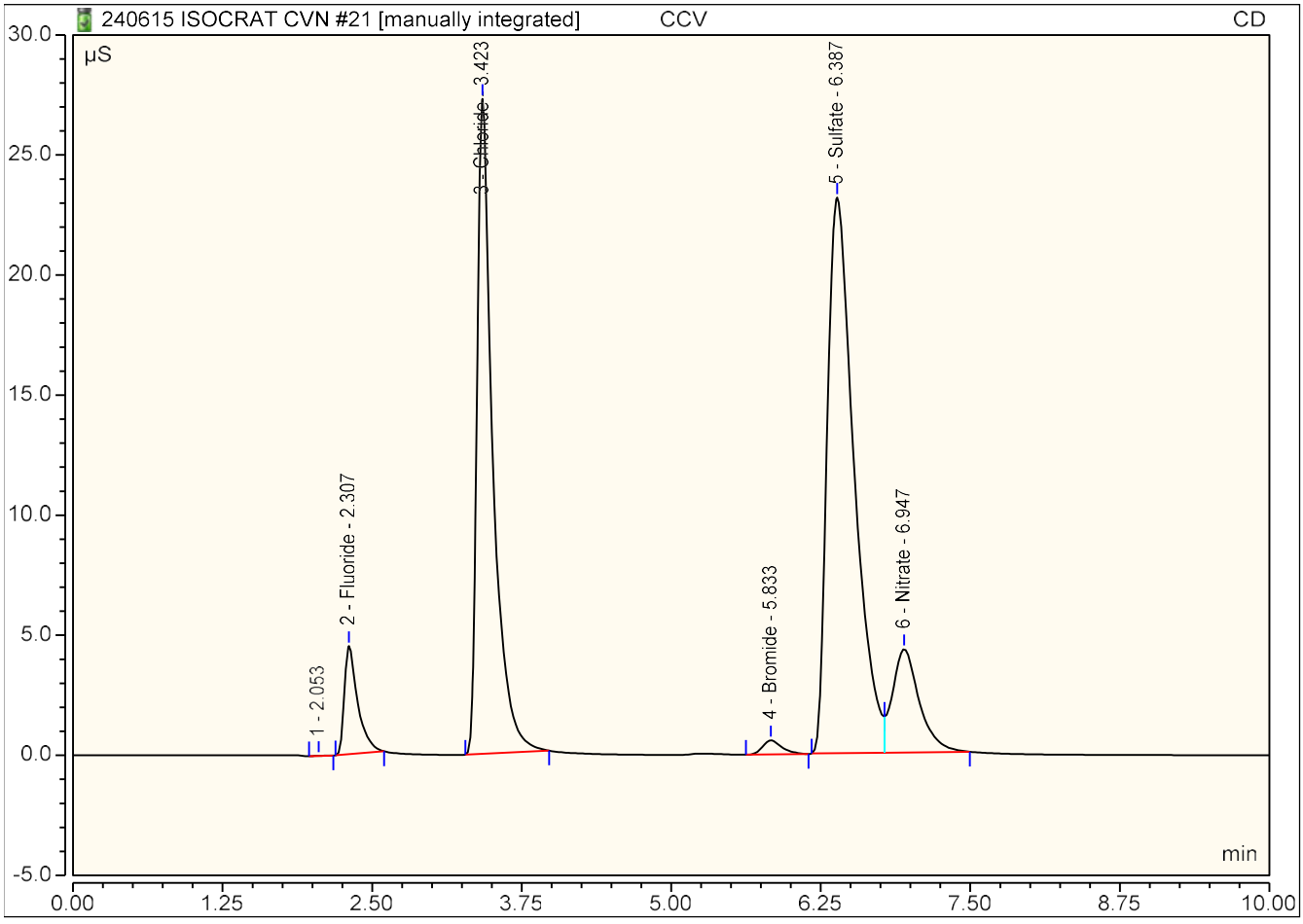
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.087	0.0704
3	3.42	**Chloride**	BMB*	5.972	39.242	14.1821
5	5.83	**Bromide**	BMB	0.001	0.011	0.0488
6	6.39	**Sulfate**	BMB	4.686	17.863	15.5580
TOTAL:				10.67	57.20	29.86



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 11:04**	*Run Time:*	**10.00**

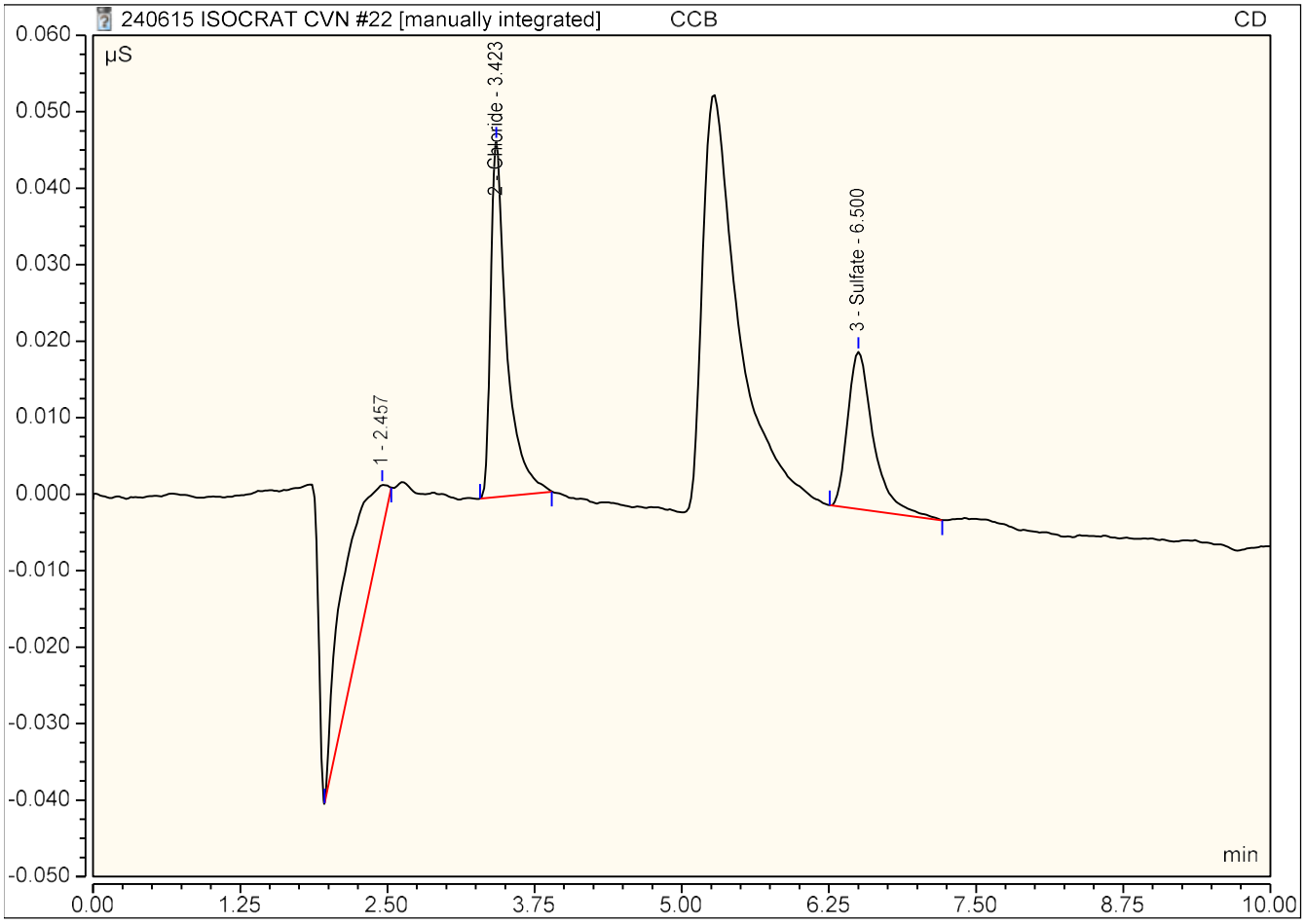
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.580	4.503	1.0216
3	3.42	**Chloride**	BMB*	4.156	27.284	9.9402
4	5.83	**Bromide**	BMB	0.110	0.587	0.9599
5	6.39	**Sulfate**	BM *	6.005	23.133	19.8216
6	6.95	**Nitrate**	MB*	1.120	4.305	1.0416
TOTAL:				11.97	59.81	32.78



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 11:16**	*Run Time:*	**10.00**

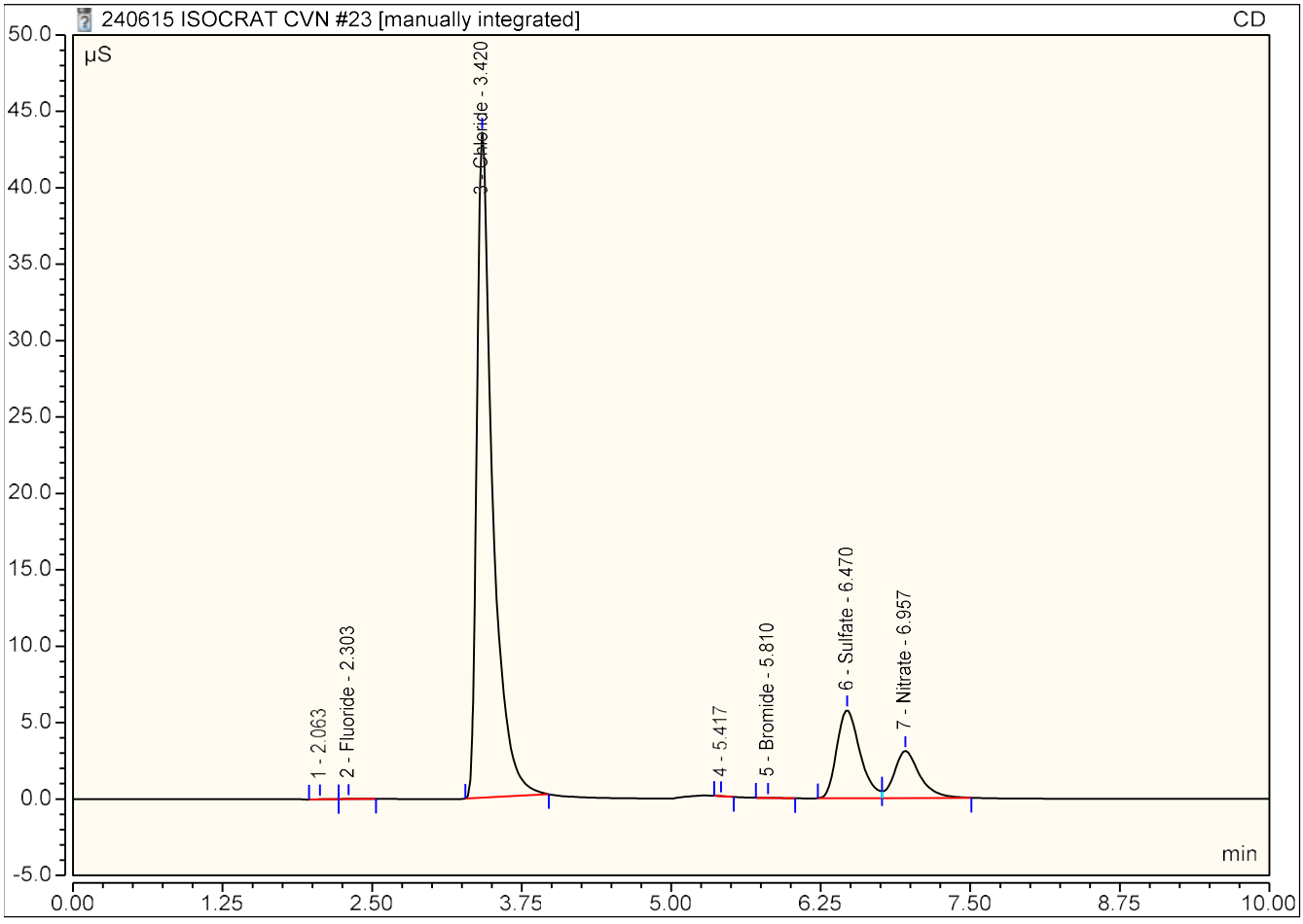
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.007	0.046	0.2504
3	6.50	**Sulfate**	BMB	0.005	0.021	0.4333
TOTAL:				0.01	0.07	0.68



Peak Integration Report

Sample Name:	**L2432795-11 CL SO4; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 11:28**	*Run Time:*	**10.00**

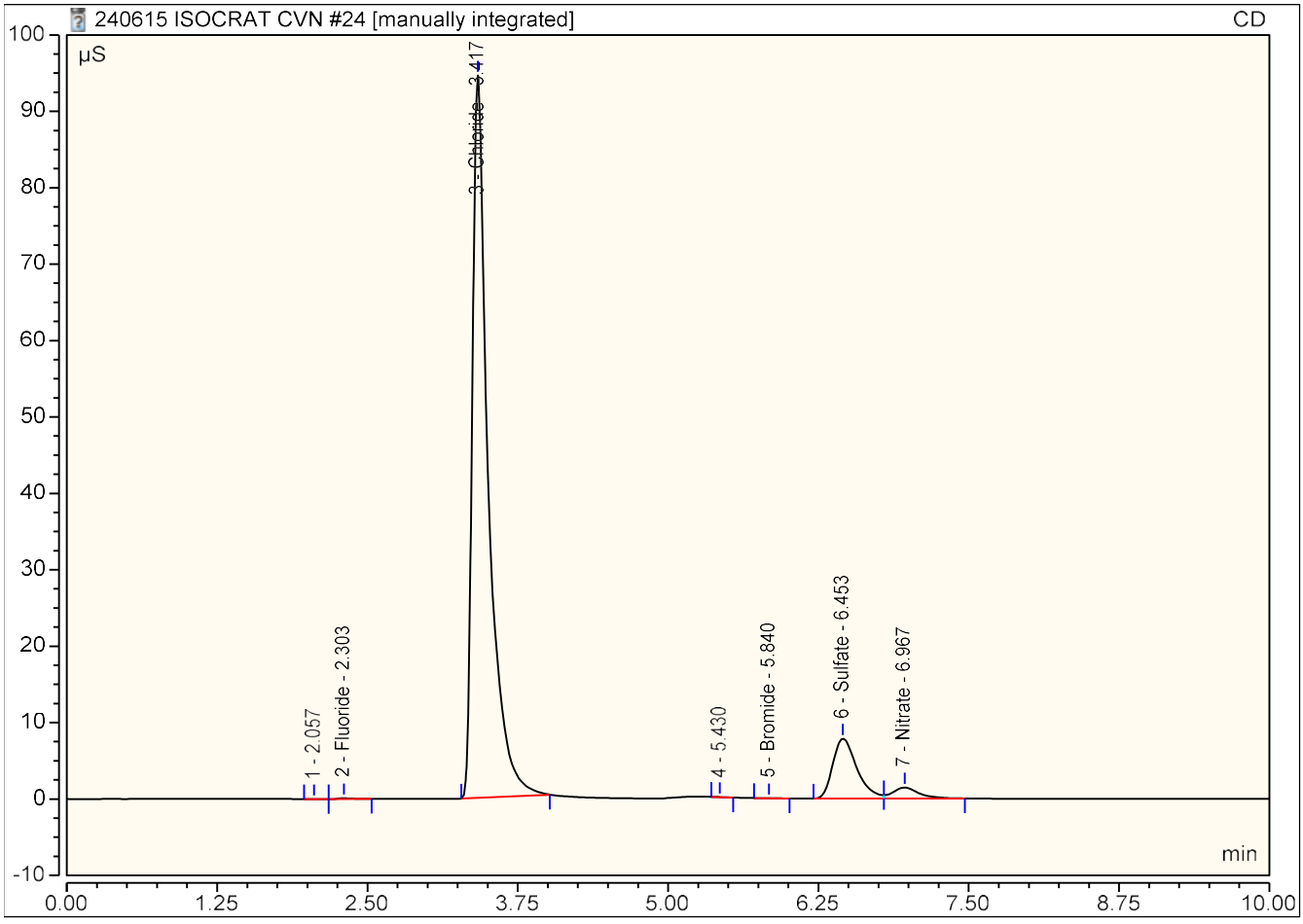
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.019	0.5589
3	3.42	**Chloride**	BMB*	6.672	43.531	158.1685
5	5.81	**Bromide**	BMB	0.002	0.011	0.5307
6	6.47	**Sulfate**	BM *	1.296	5.760	46.0512
7	6.96	**Nitrate**	MB*	0.755	3.084	7.1227
TOTAL:				8.73	52.40	212.43



Peak Integration Report

Sample Name:	**L2432795-12; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 11:40**	*Run Time:*	**10.00**

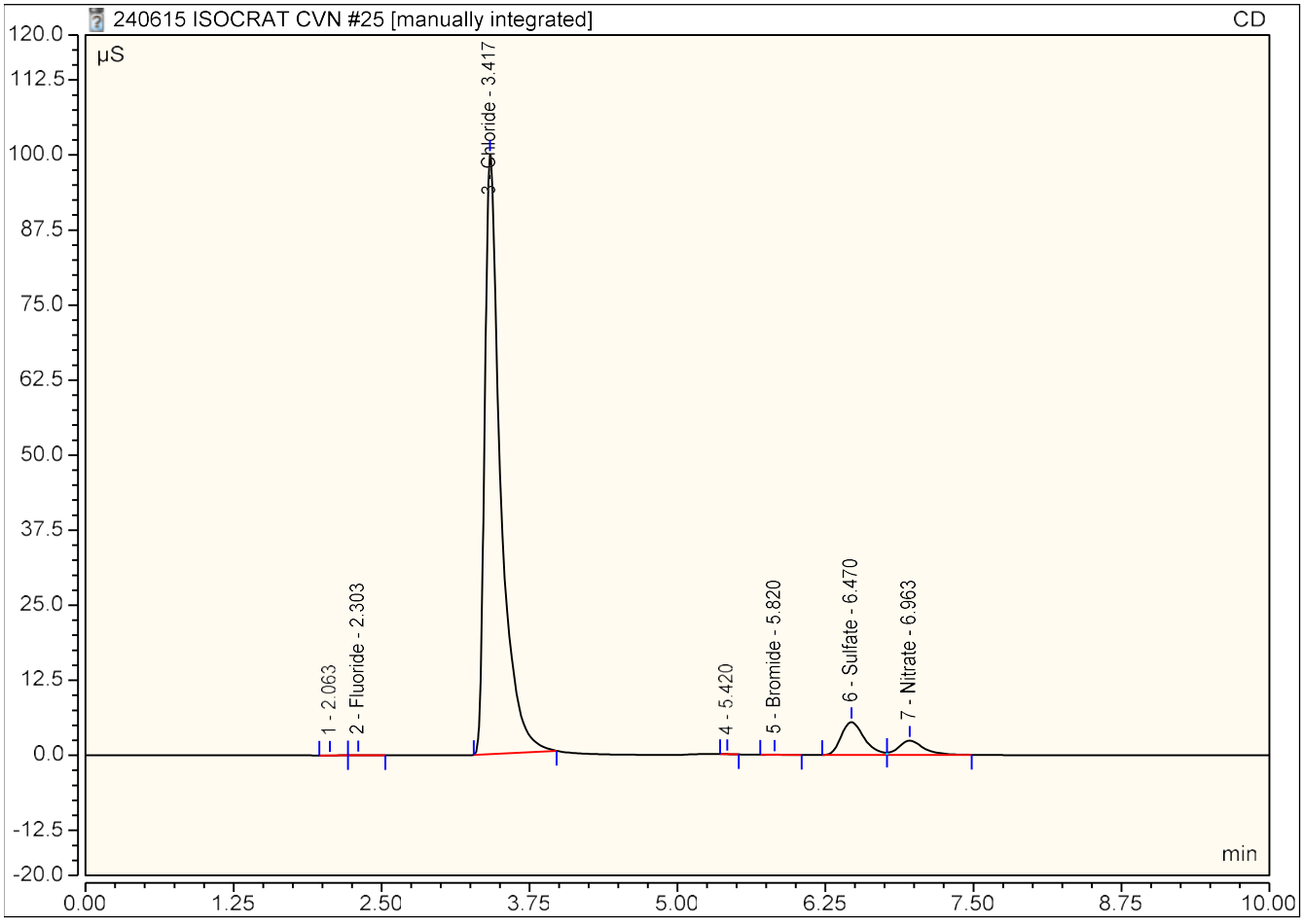
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.013	0.099	0.7218
3	3.42	**Chloride**	BMB*	14.489	94.543	340.7634
5	5.84	**Bromide**	BMB	0.002	0.013	0.5104
6	6.45	**Sulfate**	BM *	1.812	7.836	62.7336
7	6.97	**Nitrate**	MB*	0.354	1.434	3.5017
TOTAL:				16.67	103.93	408.23



Peak Integration Report

Sample Name:	**L2432795-13; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 11:53**	*Run Time:*	**10.00**

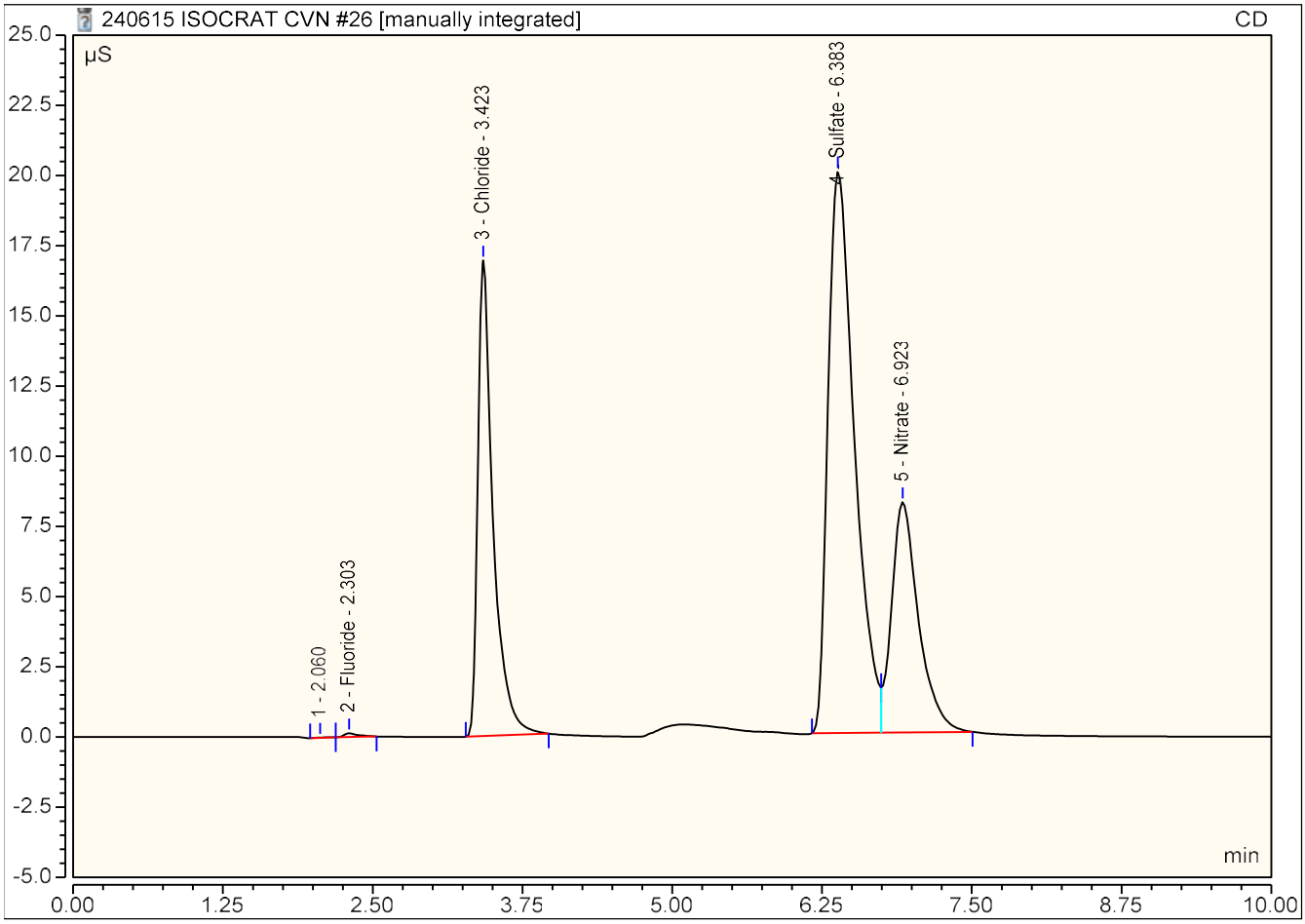
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.019	0.5587
3	3.42	**Chloride**	BMB*	15.604	99.863	366.8033
5	5.82	**Bromide**	BMB	0.003	0.019	0.6198
6	6.47	**Sulfate**	BM *	1.235	5.486	44.0769
7	6.96	**Nitrate**	MB*	0.583	2.394	5.5705
TOTAL:				17.43	107.78	417.63



Peak Integration Report

Sample Name:	**L2433035-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 12:05**	*Run Time:*	**10.00**

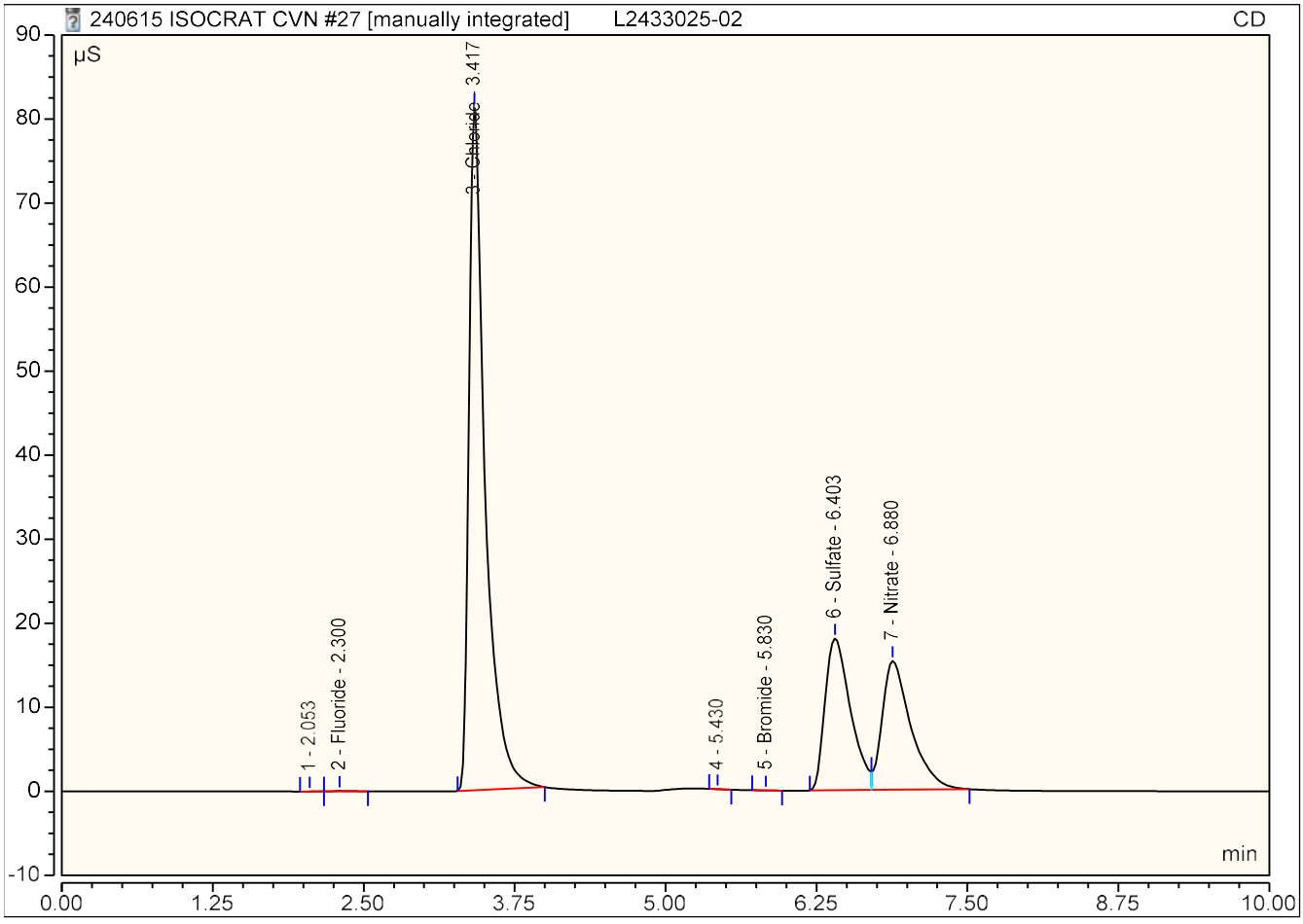
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.018	0.134	0.0809
3	3.42	**Chloride**	BMB*	2.500	16.944	6.0719
4	6.38	**Sulfate**	BM *	5.113	20.006	16.9394
5	6.92	**Nitrate**	MB*	2.136	8.207	1.9583
TOTAL:				9.77	45.29	25.05



Peak Integration Report

Sample Name:	**L2433025-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 12:17**	*Run Time:*	**10.00**

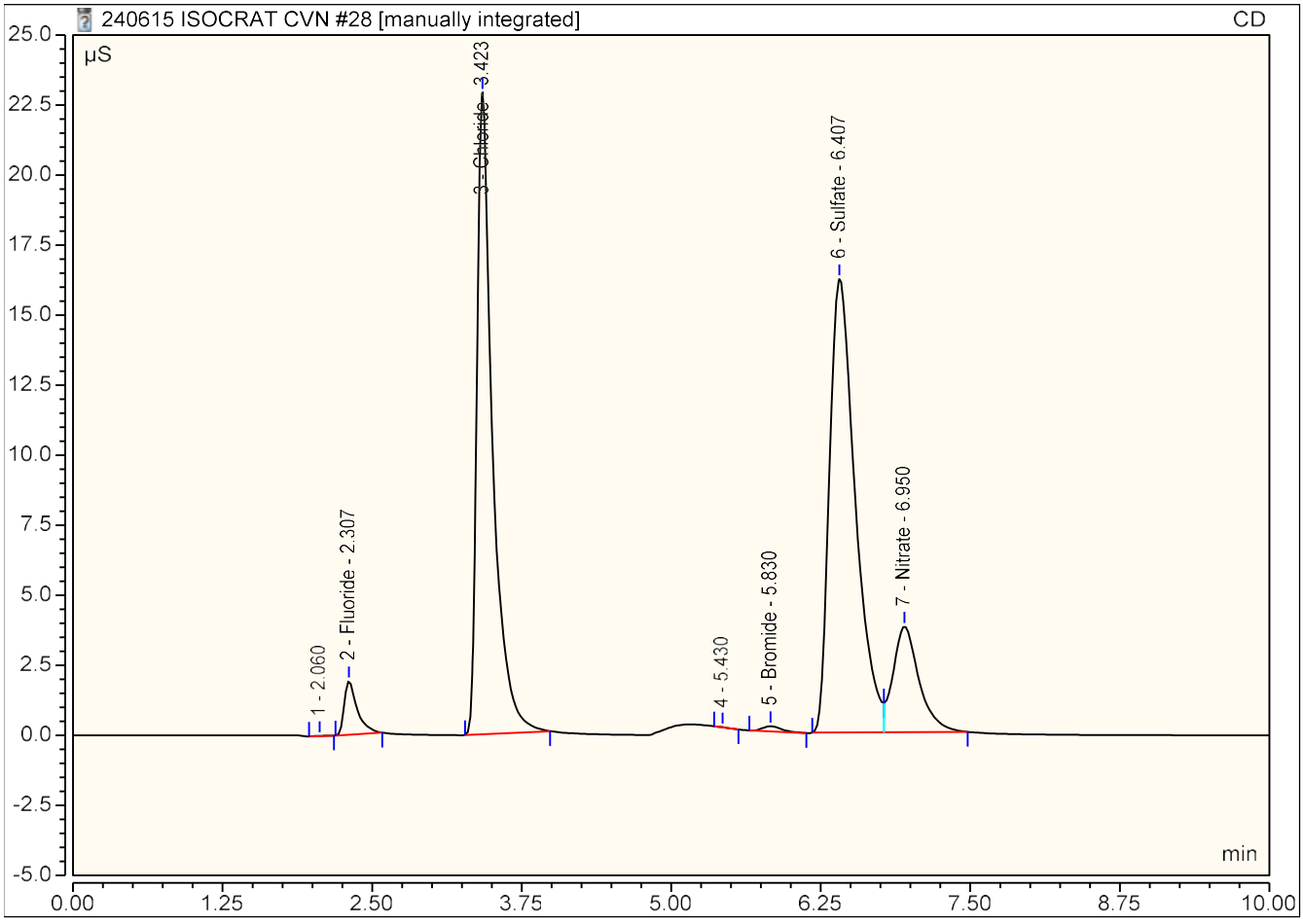
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.061	0.0650
3	3.42	**Chloride**	BMB*	12.652	81.146	29.7855
5	5.83	**Bromide**	BMB	0.001	0.008	0.0448
6	6.40	**Sulfate**	BM *	4.402	18.047	14.6411
7	6.88	**Nitrate**	MB*	4.218	15.318	3.8374
TOTAL:				21.28	114.58	48.37



Peak Integration Report

Sample Name:	**L2433035-03 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 12:29**	*Run Time:*	**10.00**

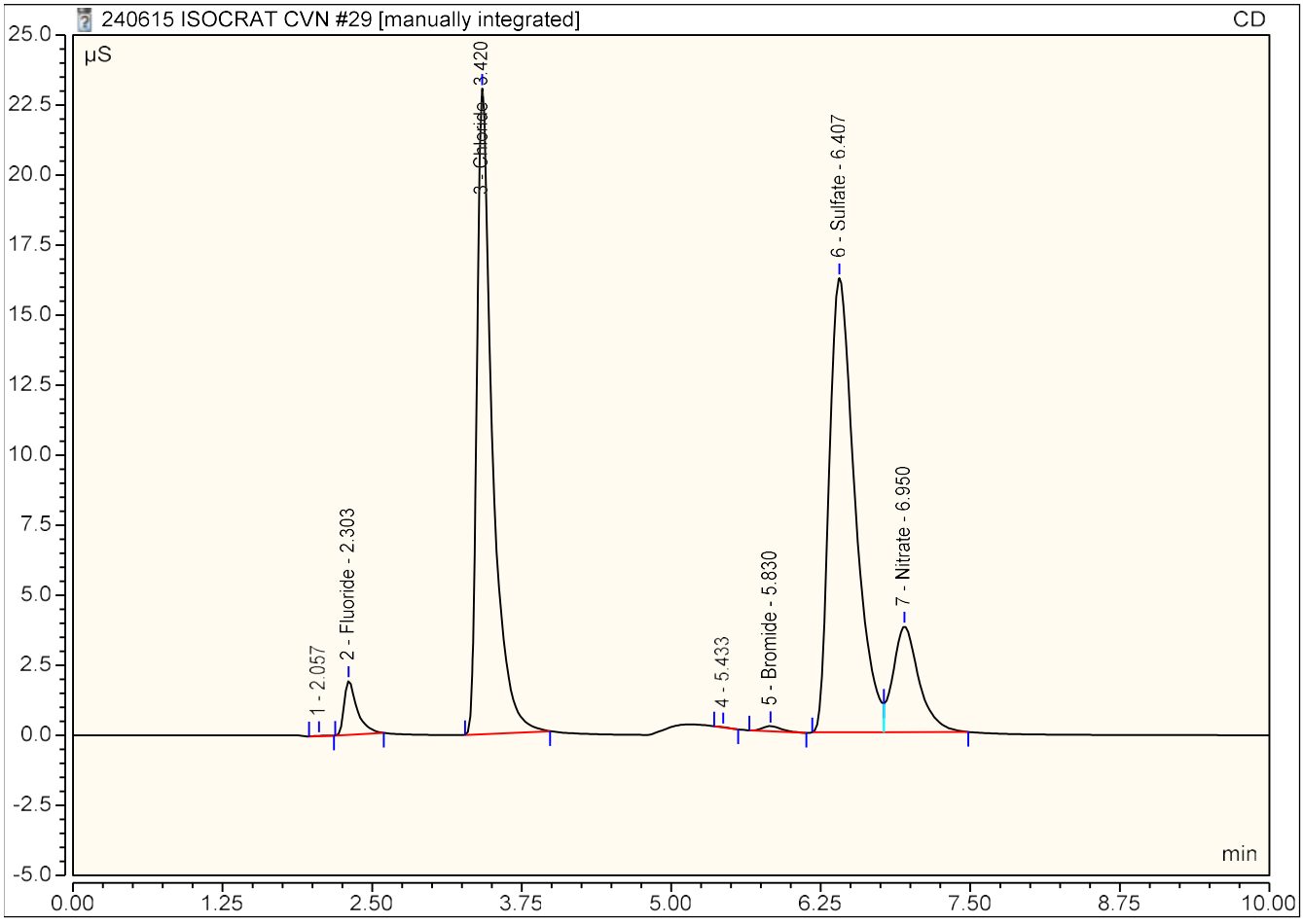
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.239	1.909	0.4515
3	3.42	**Chloride**	BMB*	3.456	22.899	8.3067
5	5.83	**Bromide**	BMB	0.034	0.189	0.3229
6	6.41	**Sulfate**	BM *	4.042	16.184	13.4793
7	6.95	**Nitrate**	MB*	0.953	3.769	0.8908
TOTAL:				8.73	44.95	23.45



Peak Integration Report

Sample Name:	**L2433035-03 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 12:41**	*Run Time:*	**10.00**

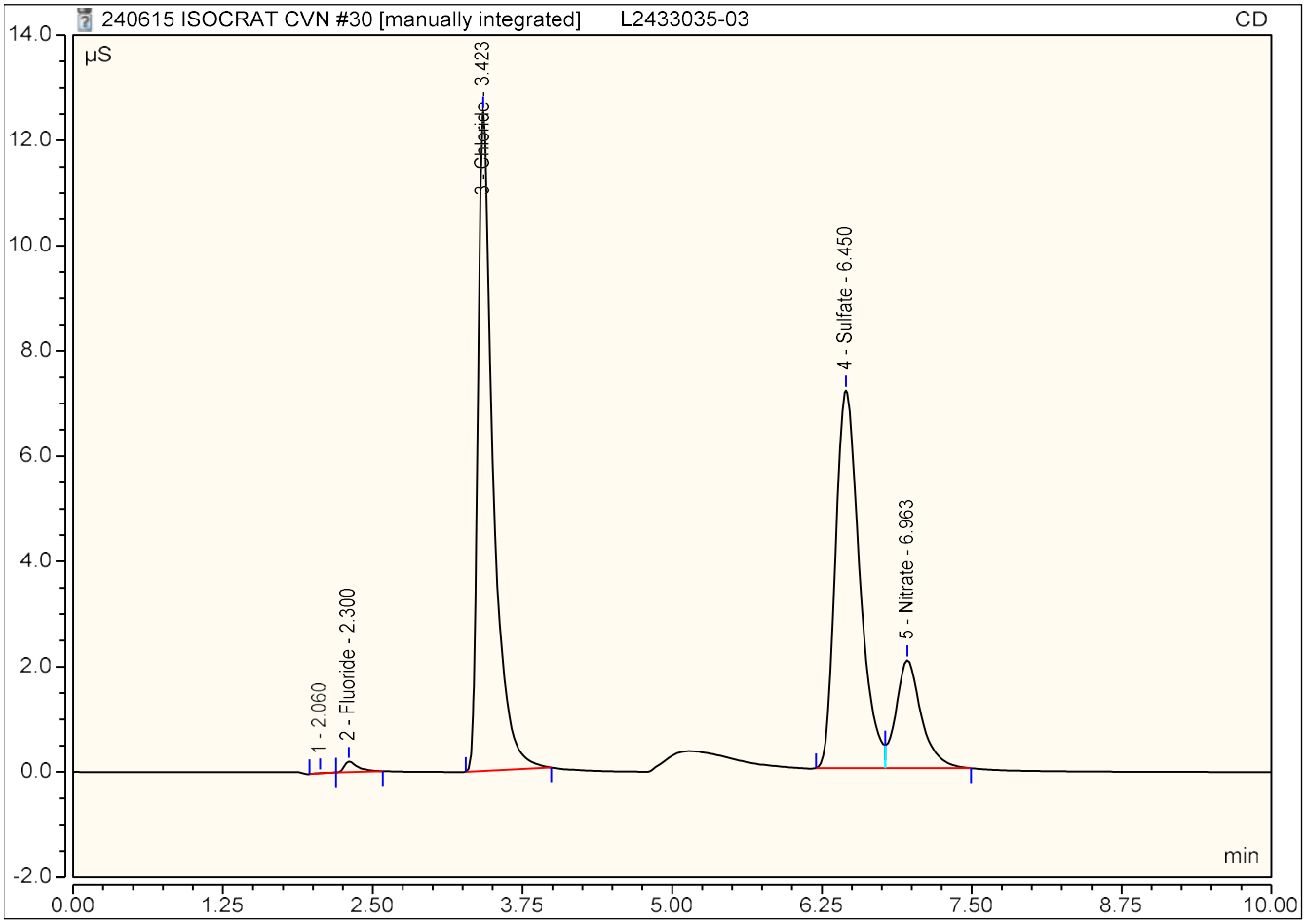
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.242	1.926	0.4564
3	3.42	**Chloride**	BMB*	3.453	23.040	8.2993
5	5.83	**Bromide**	BMB	0.034	0.189	0.3216
6	6.41	**Sulfate**	BM *	4.041	16.213	13.4737
7	6.95	**Nitrate**	MB*	0.954	3.773	0.8912
TOTAL:				8.72	45.14	23.44



Peak Integration Report

Sample Name:	**L2433035-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 12:53**	*Run Time:*	**10.00**

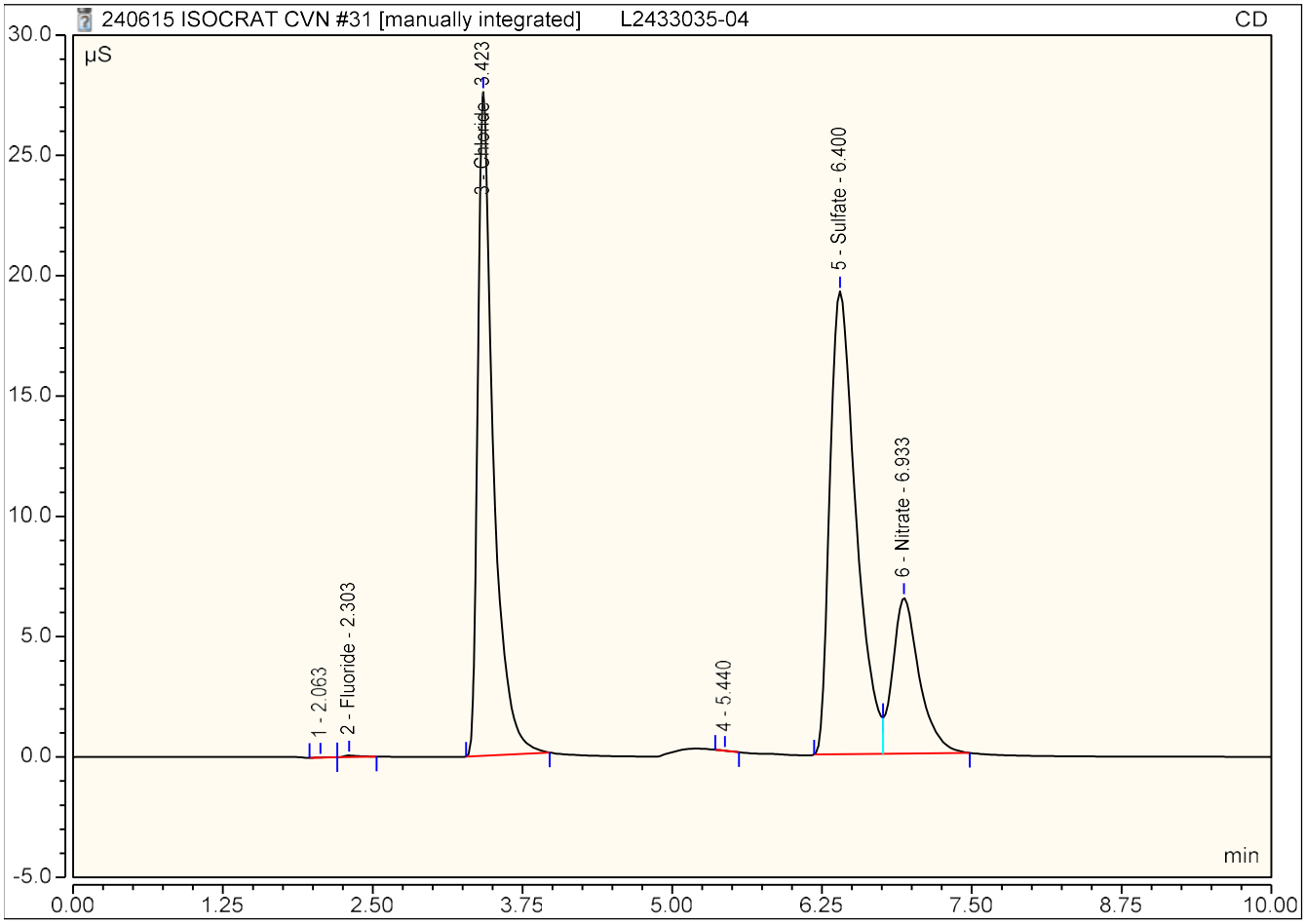
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	bMB*	0.027	0.204	0.0955
3	3.42	**Chloride**	BMB*	1.851	12.524	4.5558
4	6.45	**Sulfate**	BM *	1.678	7.179	5.8404
5	6.96	**Nitrate**	MB*	0.505	2.055	0.4861
TOTAL:				4.06	21.96	10.98



Peak Integration Report

Sample Name:	**L2433035-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 13:05**	*Run Time:*	**10.00**

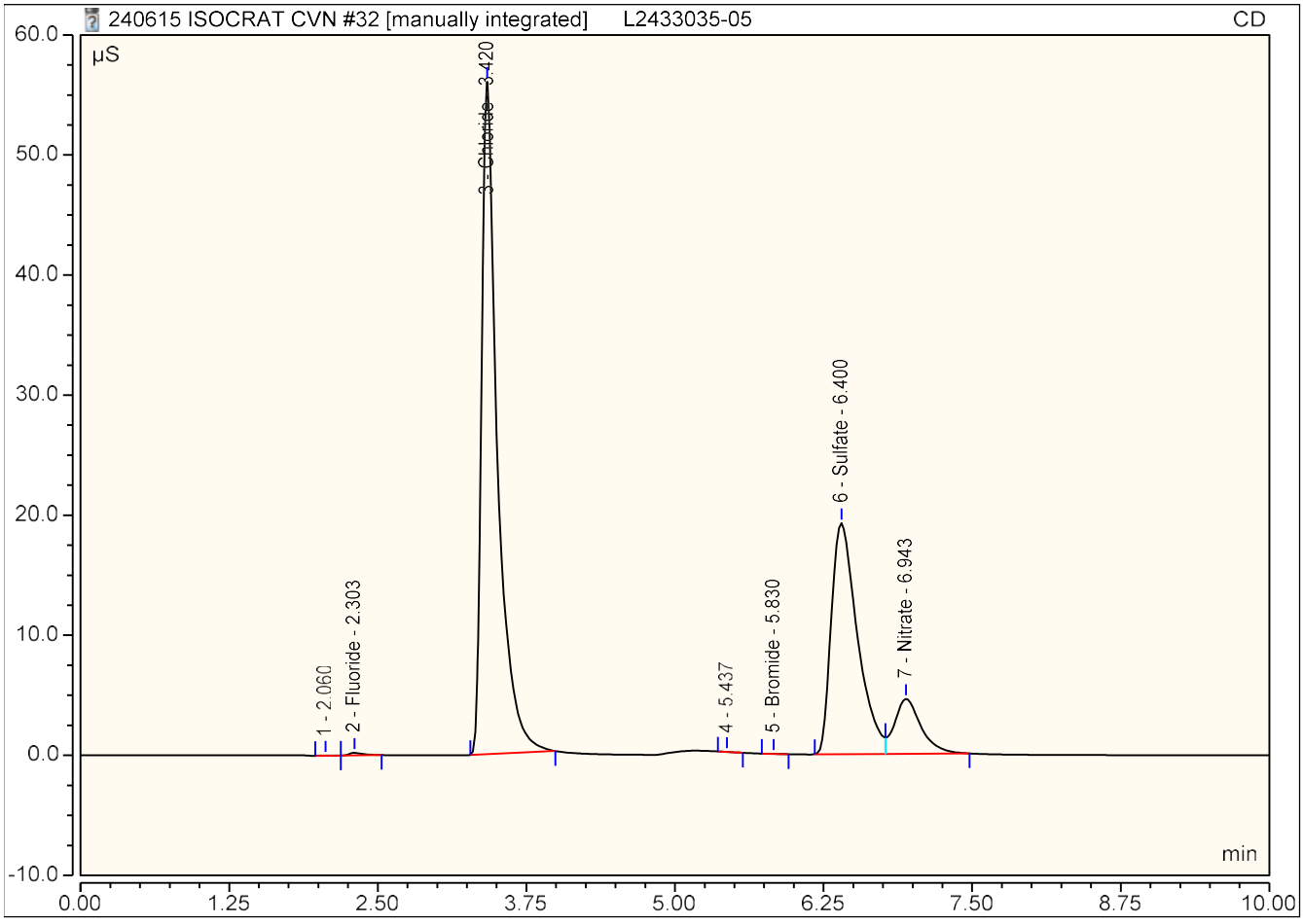
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.067	0.0668
3	3.42	**Chloride**	BMB*	4.166	27.591	9.9642
5	6.40	**Sulfate**	BM *	4.853	19.234	16.0984
6	6.93	**Nitrate**	MB*	1.665	6.472	1.5337
TOTAL:				10.69	53.36	27.66



Peak Integration Report

Sample Name:	**L2433035-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 13:17**	*Run Time:*	**10.00**

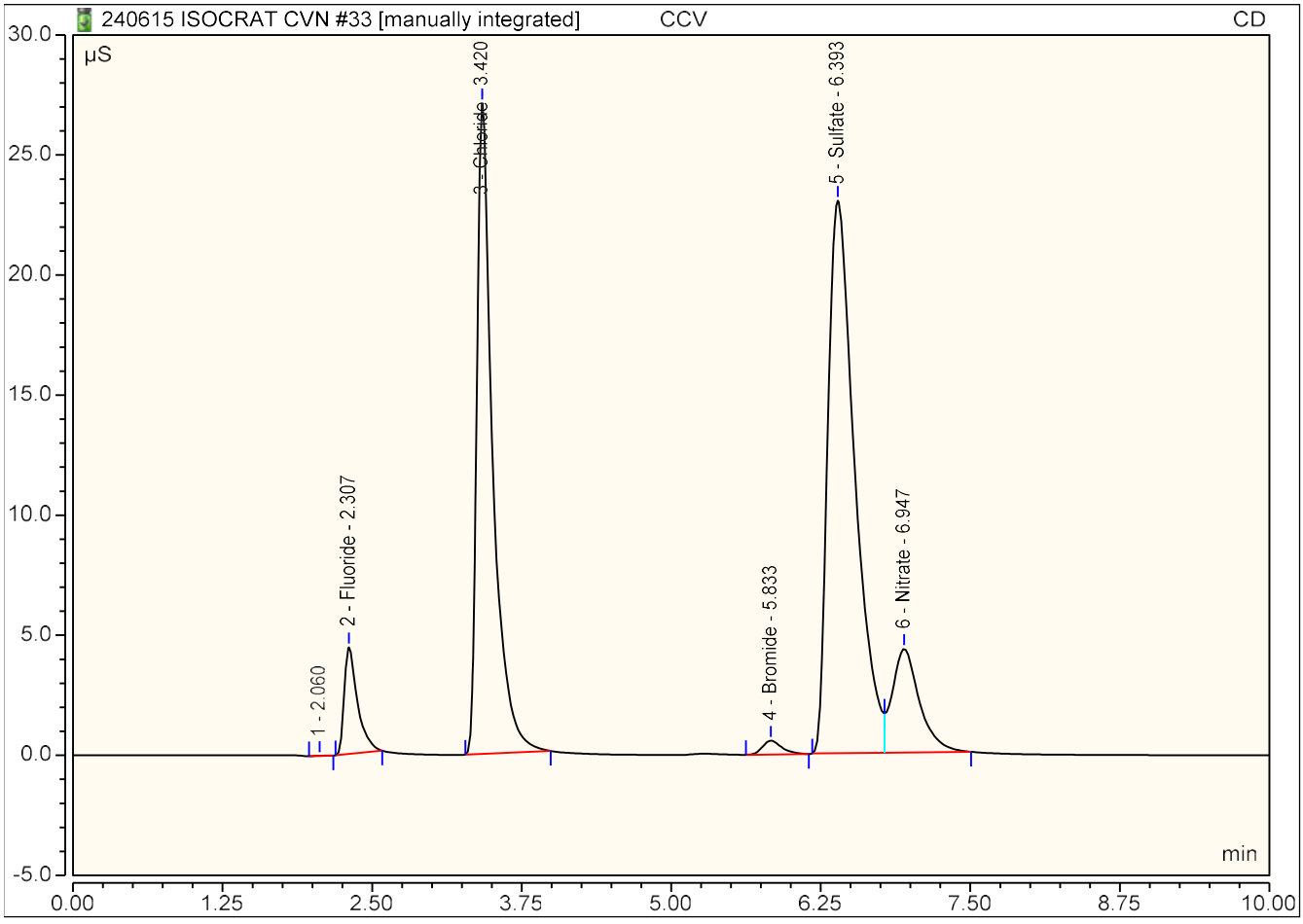
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.027	0.212	0.0959
3	3.42	**Chloride**	BMB*	8.676	56.010	20.4984
5	5.83	**Bromide**	BMB	0.001	0.005	0.0420
6	6.40	**Sulfate**	BM *	4.894	19.225	16.2300
7	6.94	**Nitrate**	MB*	1.181	4.577	1.0964
TOTAL:				14.78	80.03	37.96



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 13:29**	*Run Time:*	**10.00**

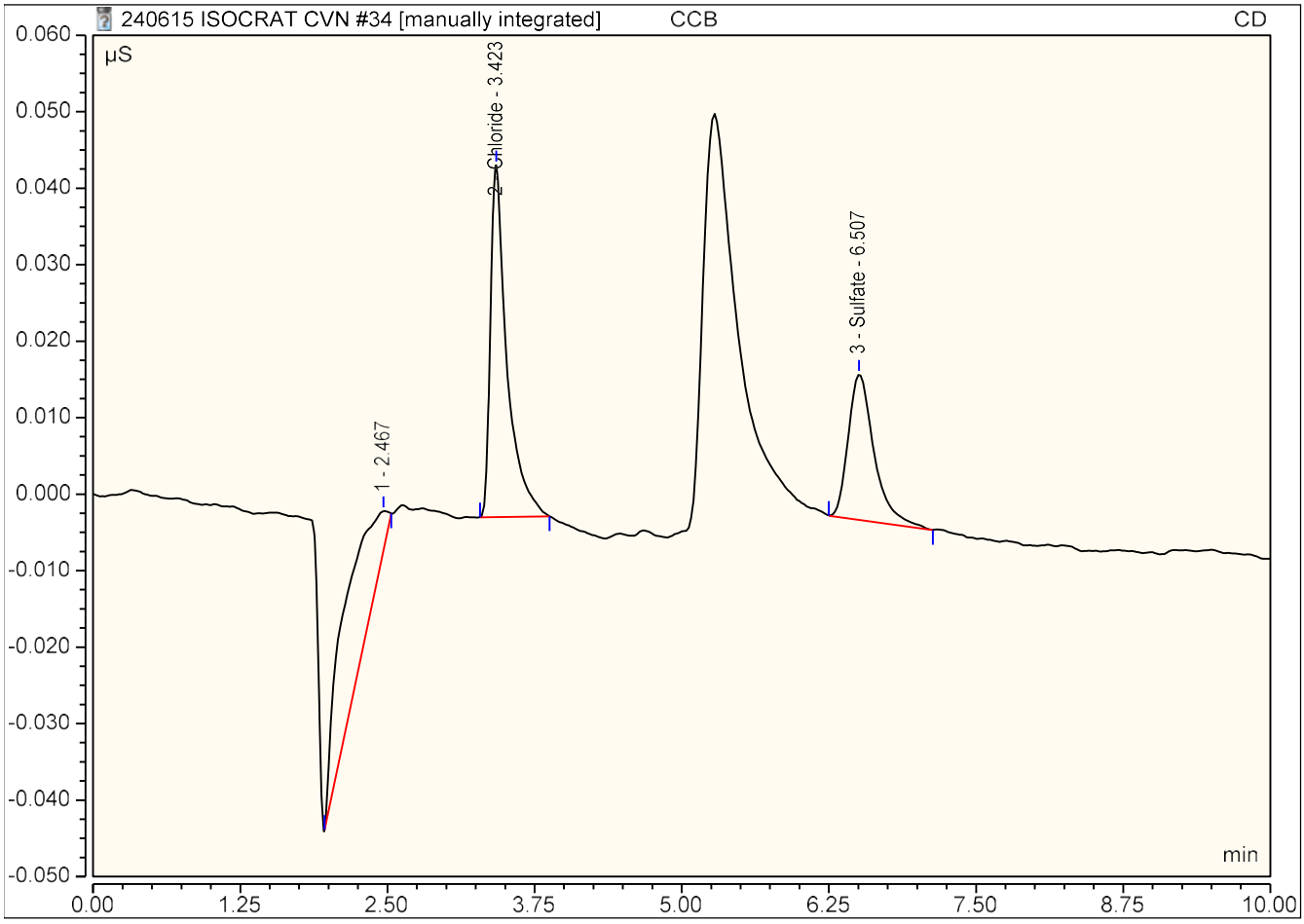
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.571	4.443	1.0060
3	3.42	**Chloride**	BMB*	4.167	27.100	9.9666
4	5.83	**Bromide**	BMB	0.109	0.579	0.9506
5	6.39	**Sulfate**	BM *	5.993	23.011	19.7825
6	6.95	**Nitrate**	MB*	1.139	4.317	1.0589
TOTAL:				11.98	59.45	32.76



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 13:41**	*Run Time:*	**10.00**

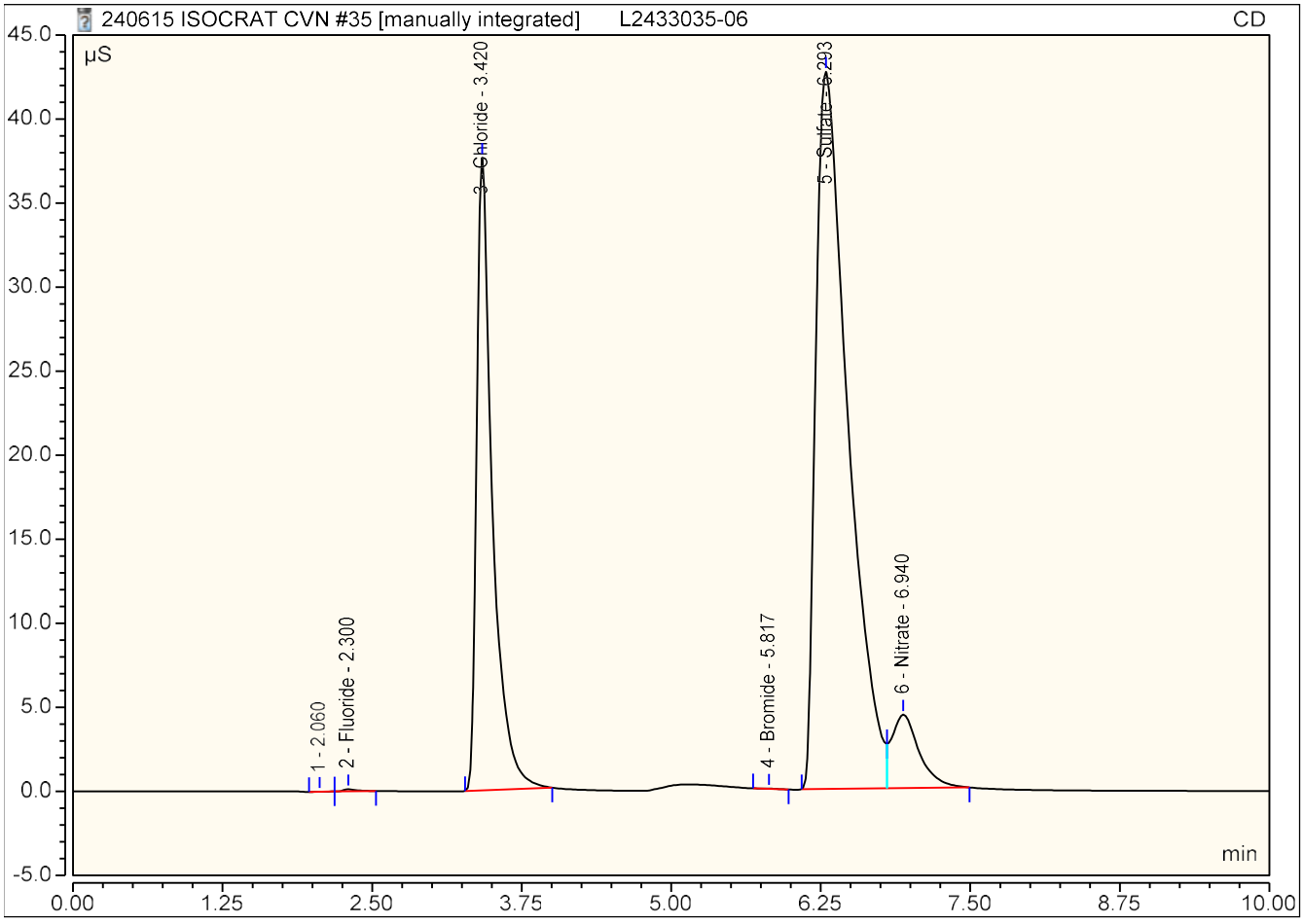
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.007	0.046	0.2508
3	6.51	**Sulfate**	BMB	0.005	0.019	0.4320
TOTAL:				0.01	0.07	0.68



Peak Integration Report

Sample Name:	**L2433035-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 13:53**	*Run Time:*	**10.00**

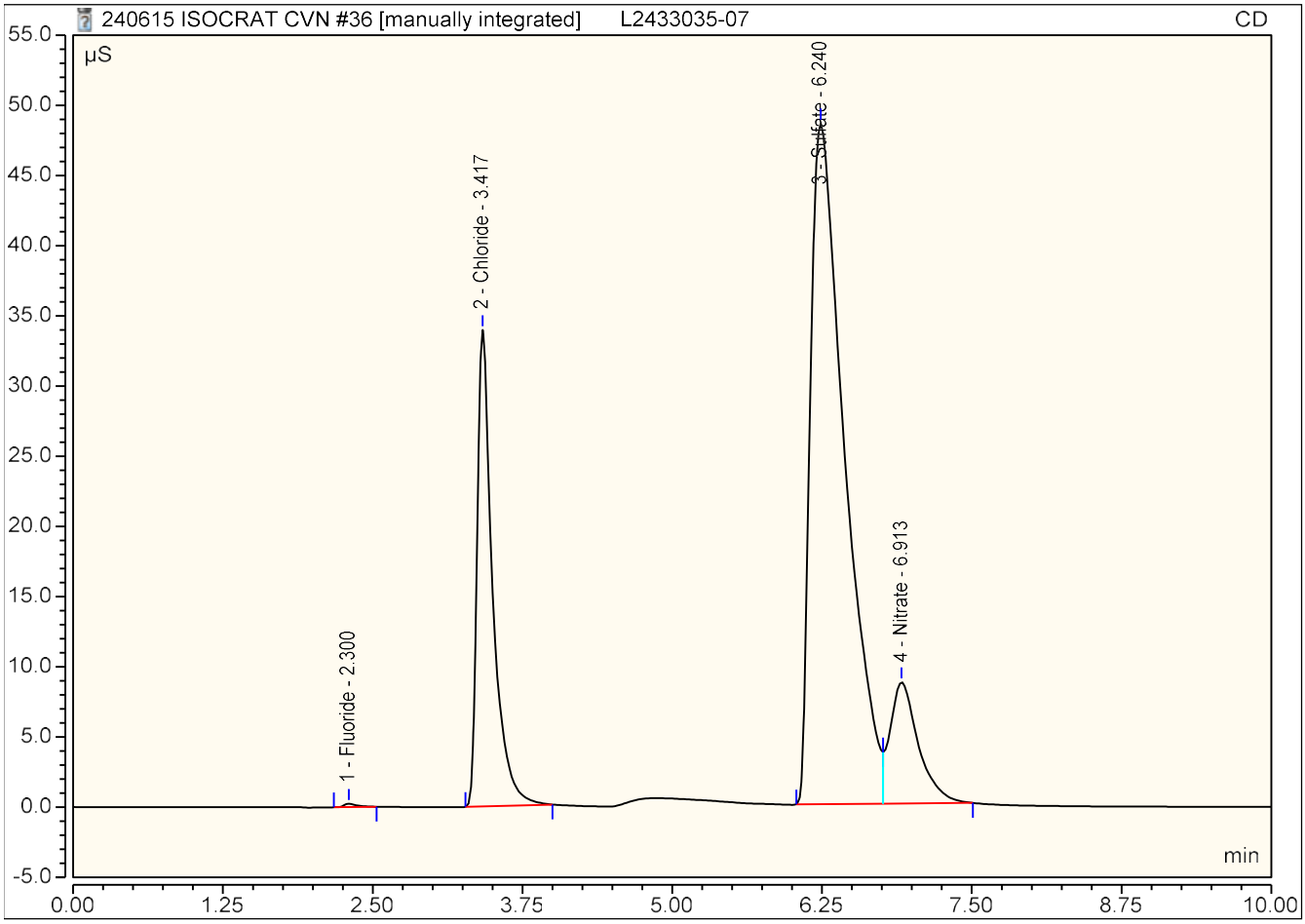
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.129	0.0790
3	3.42	**Chloride**	BMB*	5.774	37.637	13.7204
4	5.82	**Bromide**	BMB	0.003	0.018	0.0582
5	6.29	**Sulfate**	BM *	13.294	42.672	43.3775
6	6.94	**Nitrate**	MB*	1.172	4.376	1.0881
TOTAL:				20.26	84.83	58.32



Peak Integration Report

Sample Name:	**L2433035-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 14:05**	*Run Time:*	**10.00**

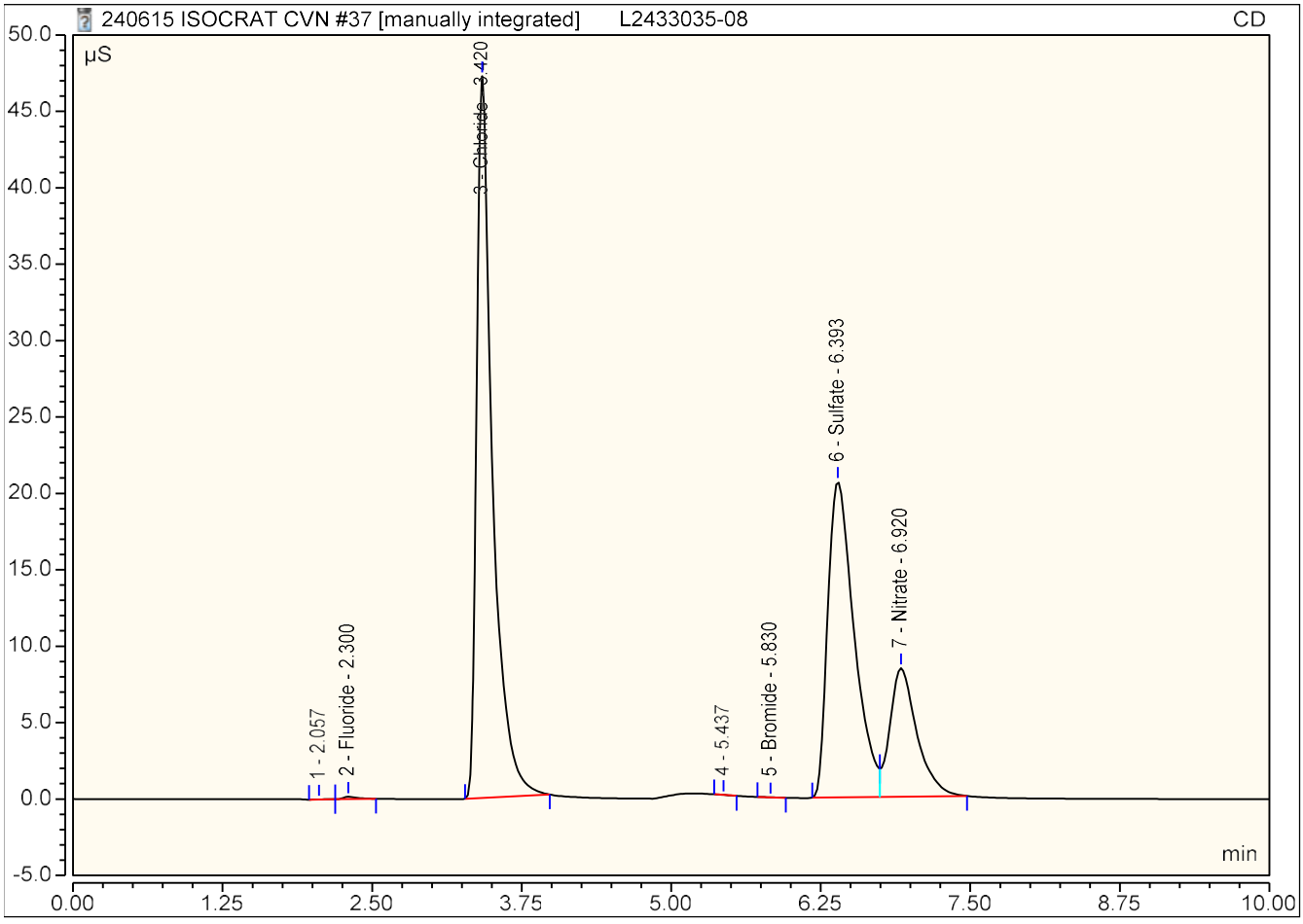
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.30	**Fluoride**	BMB	0.031	0.242	0.1027
2	3.42	**Chloride**	BMB*	5.105	33.945	12.1574
3	6.24	**Sulfate**	BM *	16.075	48.497	52.3642
4	6.91	**Nitrate**	MB*	2.379	8.642	2.1776
TOTAL:				23.59	91.32	66.80



Peak Integration Report

Sample Name:	**L2433035-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 14:18**	*Run Time:*	**10.00**

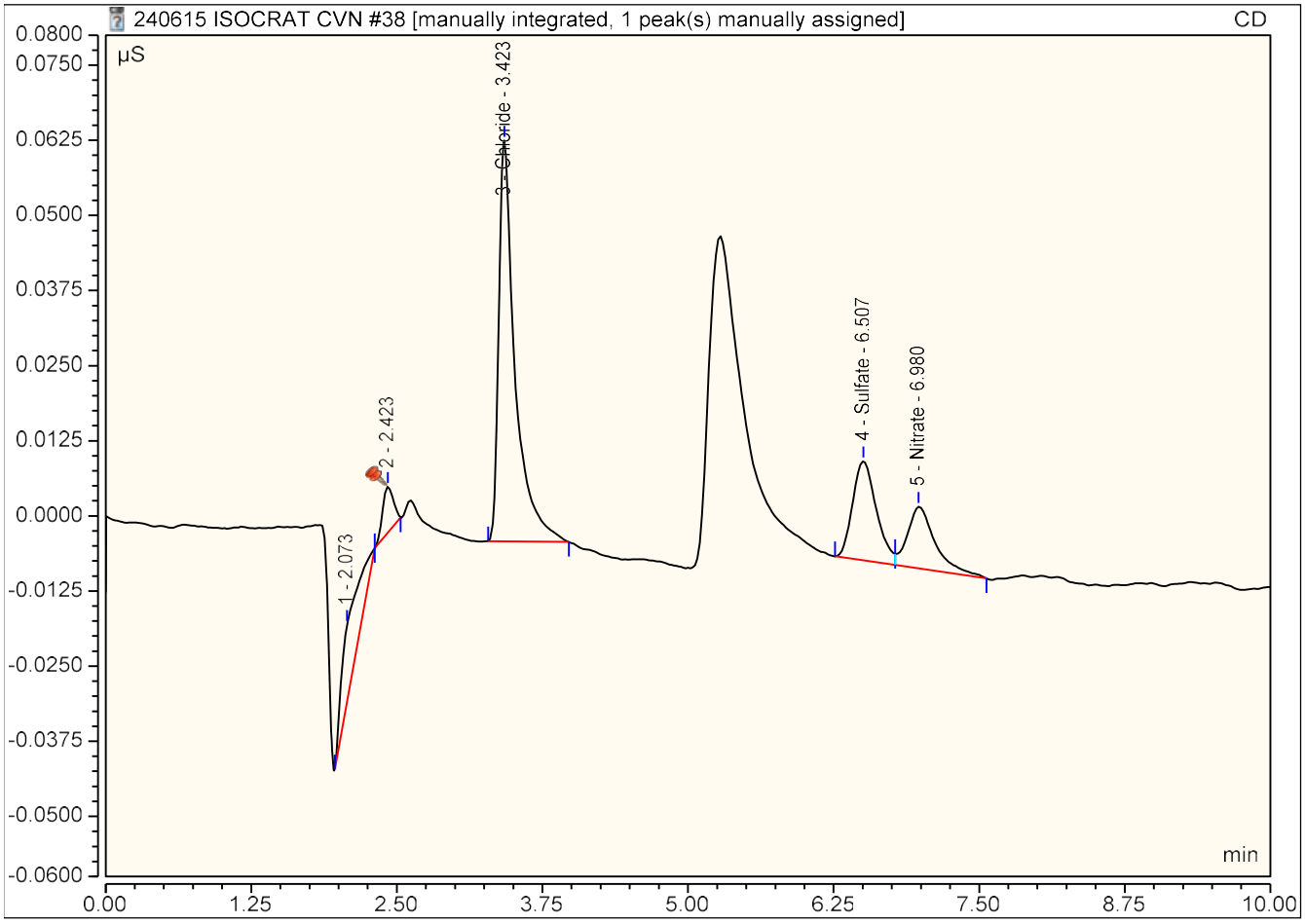
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.019	0.149	0.0833
3	3.42	**Chloride**	BMB*	7.270	47.243	17.2148
5	5.83	**Bromide**	BMB	0.001	0.006	0.0430
6	6.39	**Sulfate**	BM *	5.258	20.647	17.4067
7	6.92	**Nitrate**	MB*	2.202	8.405	2.0179
TOTAL:				14.75	76.45	36.77



Peak Integration Report

Sample Name:	**L2433035-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 14:30**	*Run Time:*	**10.00**

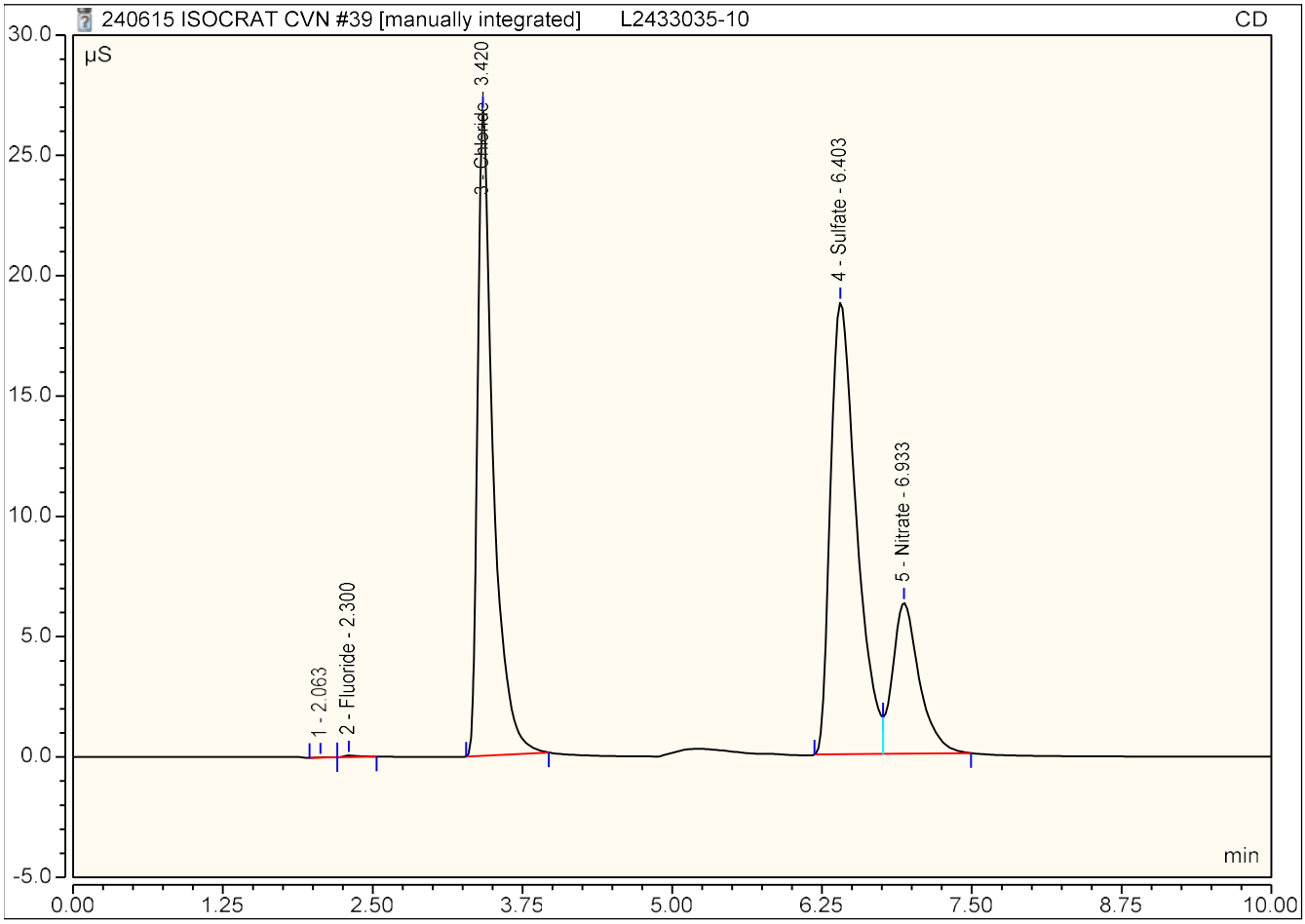
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.011	0.067	0.2586
4	6.51	**Sulfate**	BM *	0.004	0.016	0.4290
5	6.98	**Nitrate**	MB*	0.003	0.010	0.0332
TOTAL:				0.02	0.09	0.72



Peak Integration Report

Sample Name:	**L2433035-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 14:42**	*Run Time:*	**10.00**

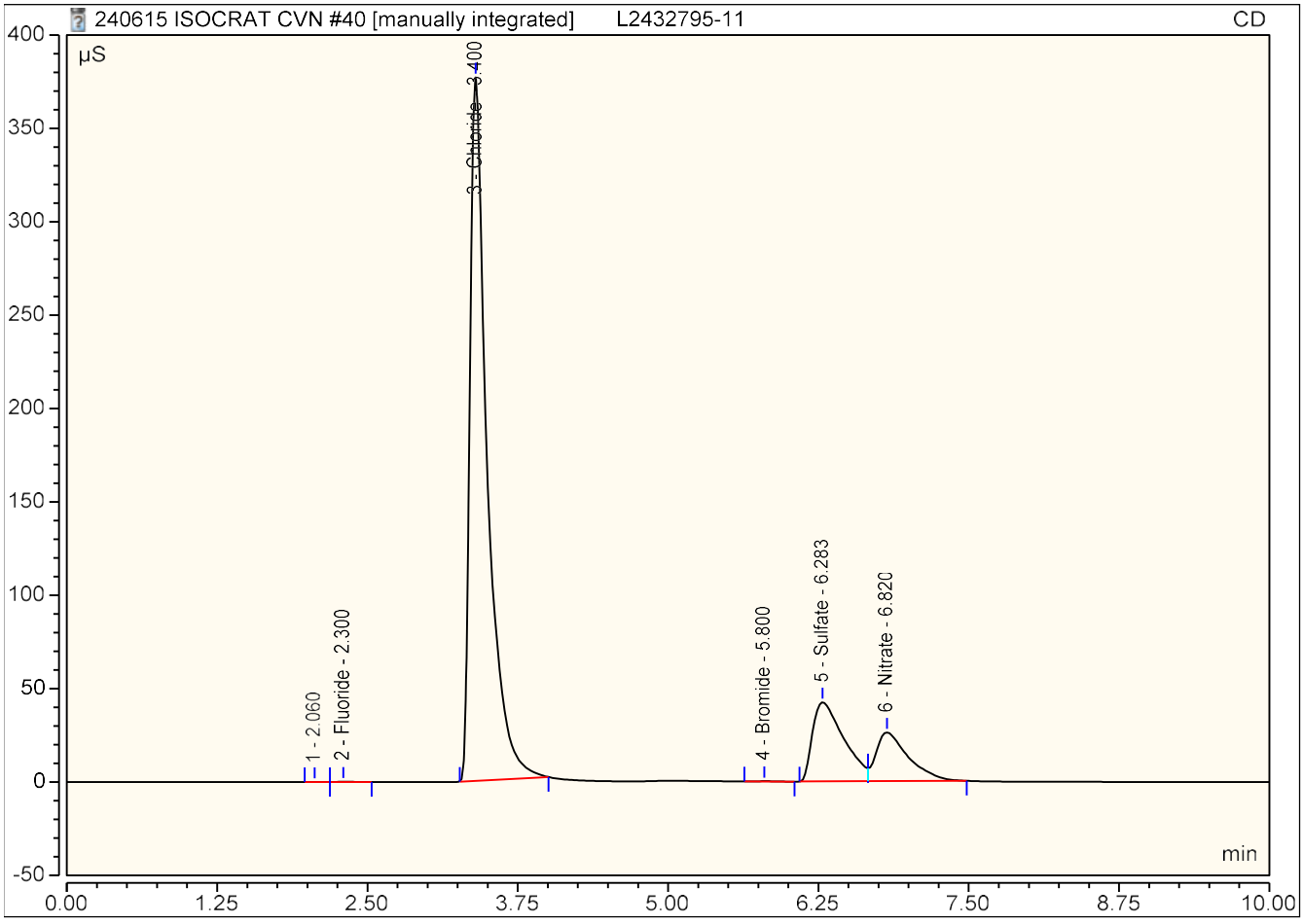
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.065	0.0666
3	3.42	**Chloride**	BMB*	4.062	26.789	9.7212
4	6.40	**Sulfate**	BM *	4.732	18.784	15.7087
5	6.93	**Nitrate**	MB*	1.624	6.279	1.4961
TOTAL:				10.43	51.92	26.99



Peak Integration Report

Sample Name:	**L2432795-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 14:54**	*Run Time:*	**10.00**

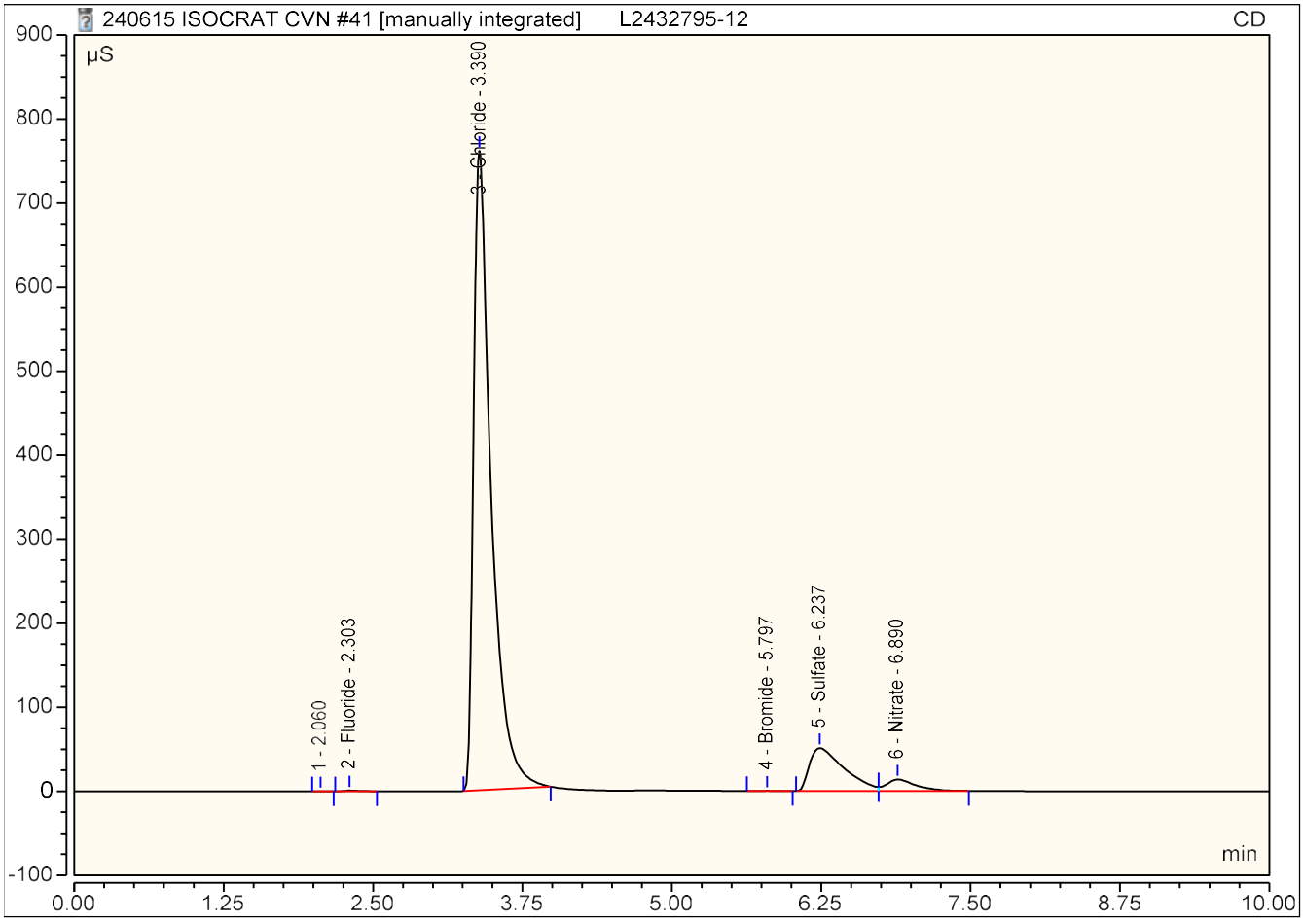
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.023	0.171	0.0888
3	3.40	**Chloride**	BMB*	62.828	376.581	146.9844
4	5.80	**Bromide**	BMB	0.032	0.184	0.3034
5	6.28	**Sulfate**	BM *	12.736	42.309	41.5748
6	6.82	**Nitrate**	MB*	8.102	26.076	7.3436
TOTAL:				83.72	445.32	196.29



Peak Integration Report

Sample Name:	**L2432795-12**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 15:06**	*Run Time:*	**10.00**

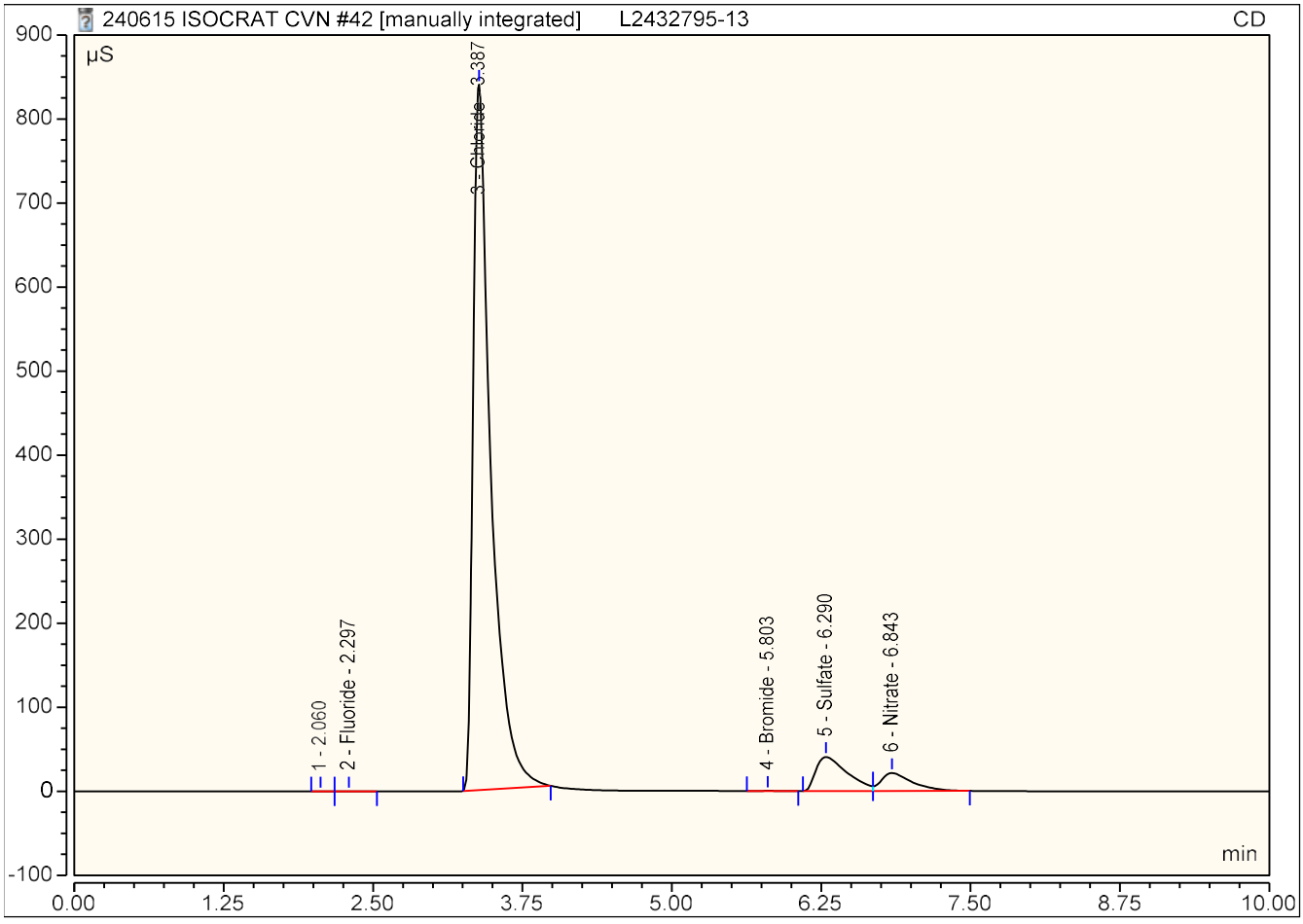
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.121	0.917	0.2530
3	3.39	**Chloride**	BMB*	129.218	760.870	302.0566
4	5.80	**Bromide**	BMB	0.033	0.192	0.3100
5	6.24	**Sulfate**	BM *	17.096	51.090	55.6628
6	6.89	**Nitrate**	MB*	3.859	13.634	3.5136
TOTAL:				150.33	826.70	361.80



Peak Integration Report

Sample Name:	**L2432795-13**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 15:18**	*Run Time:*	**10.00**

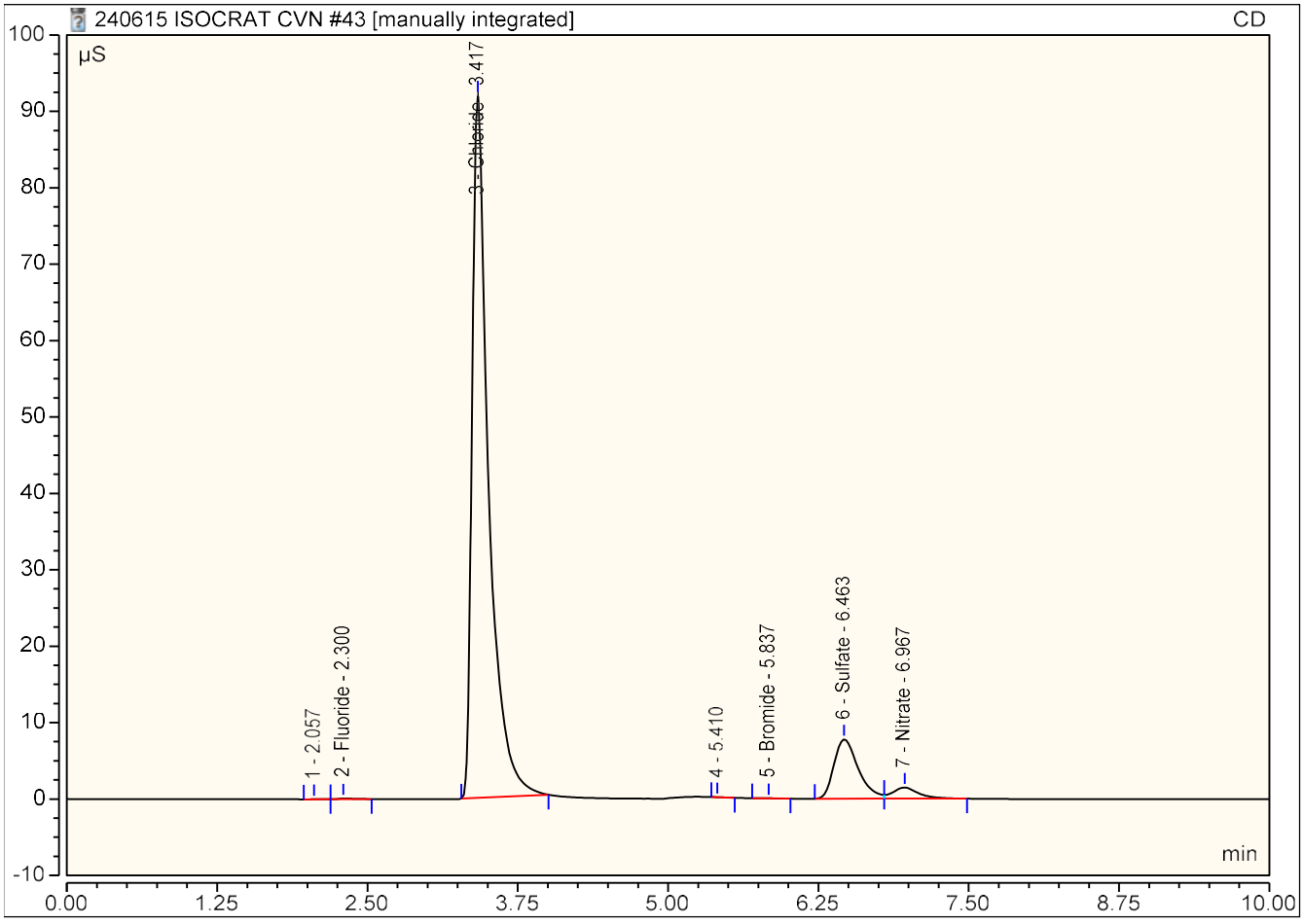
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.022	0.160	0.0880
3	3.39	**Chloride**	BMB*	144.200	839.373	337.0508
4	5.80	**Bromide**	BMB	0.047	0.266	0.4298
5	6.29	**Sulfate**	BM *	12.288	40.662	40.1260
6	6.84	**Nitrate**	MB*	6.405	21.420	5.8121
TOTAL:				162.96	901.88	383.51



Peak Integration Report

Sample Name:	**XL2432795-13: 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 15:30**	*Run Time:*	**10.00**

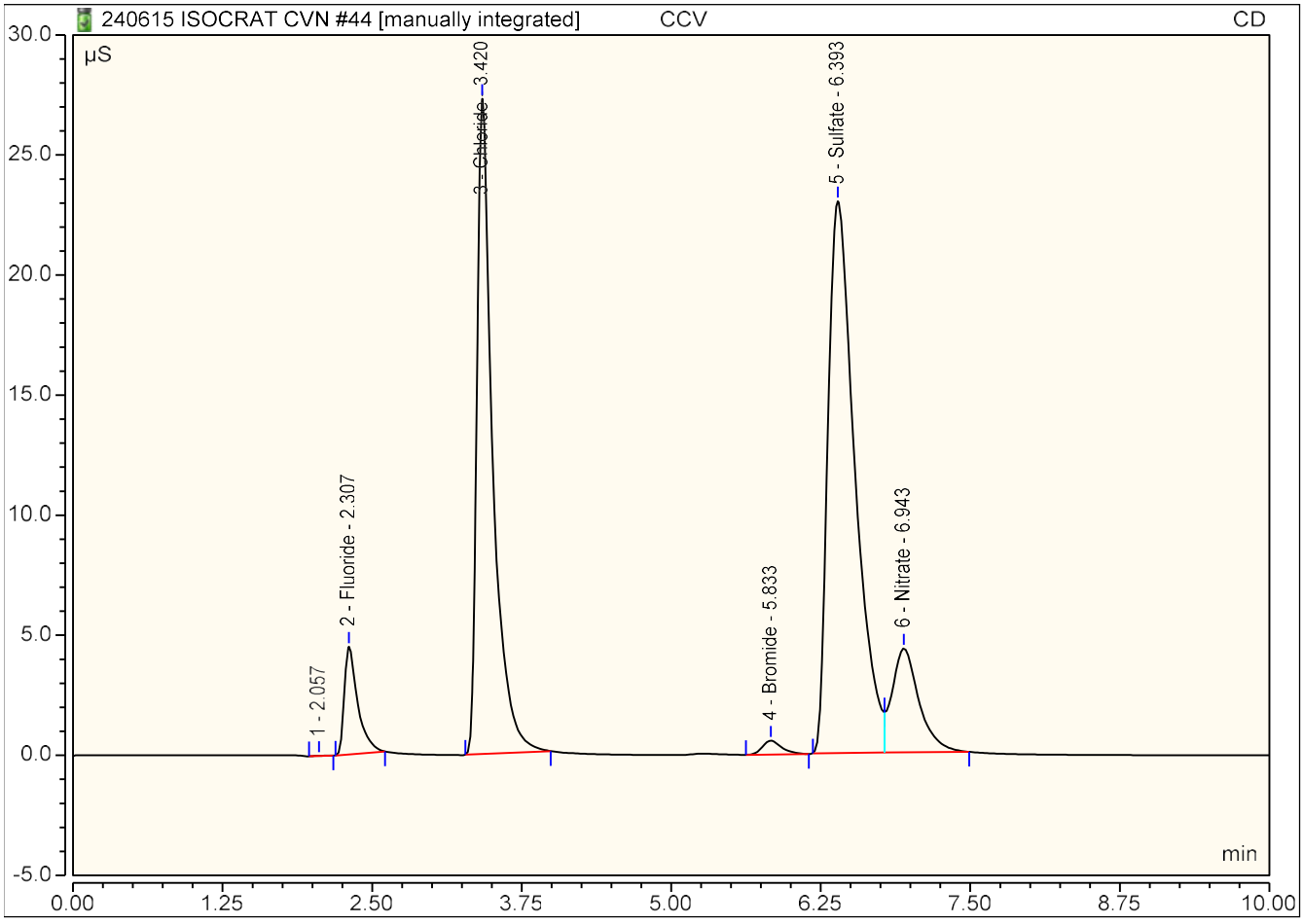
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.013	0.095	0.7233
3	3.42	**Chloride**	BMB*	14.548	91.919	342.1397
5	5.84	**Bromide**	BMB	0.002	0.013	0.5179
6	6.46	**Sulfate**	BM *	1.816	7.766	62.8428
7	6.97	**Nitrate**	MB*	0.363	1.445	3.5836
TOTAL:				16.74	101.24	409.81



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 15:42**	*Run Time:*	**10.00**

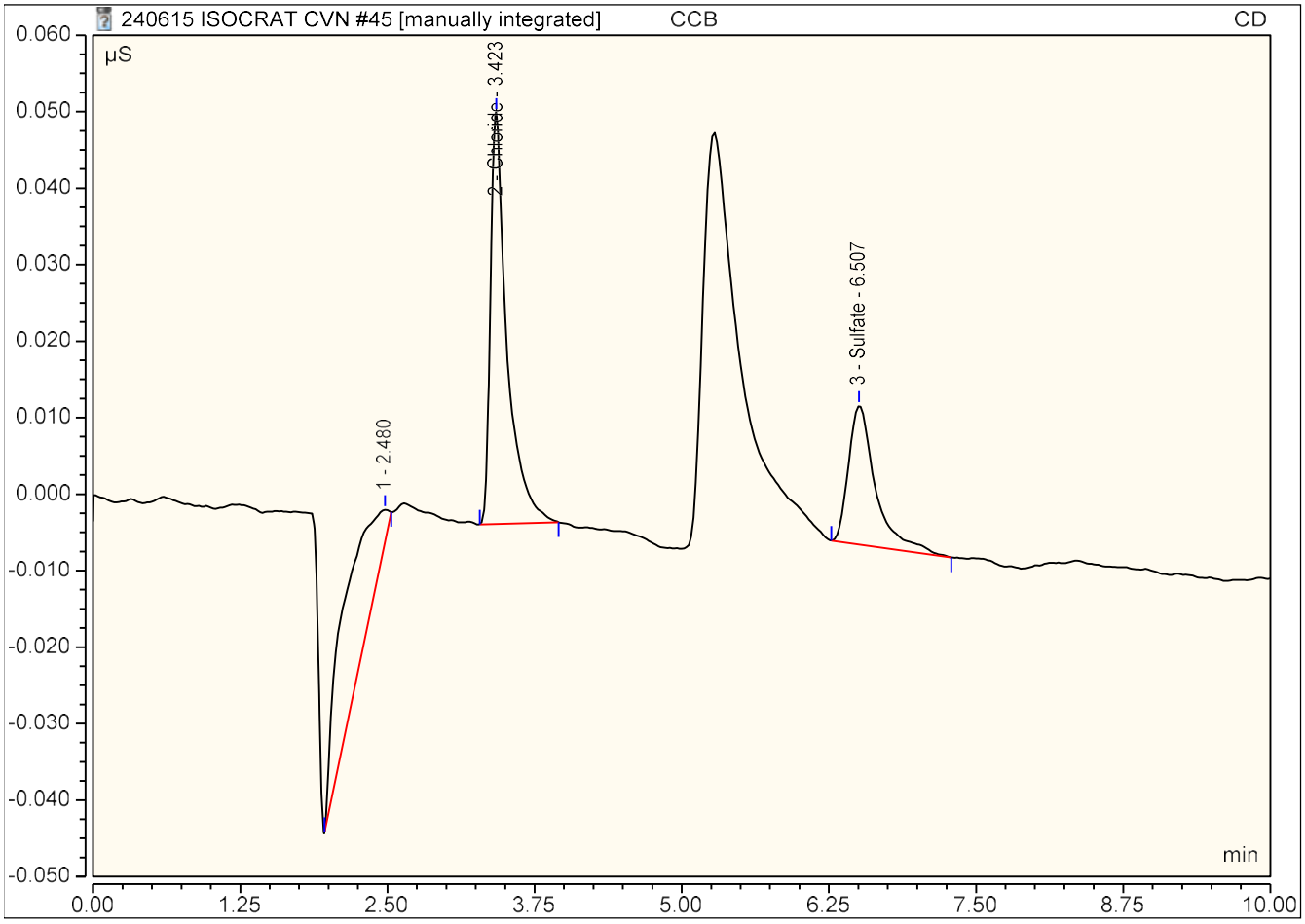
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB*	0.581	4.481	1.0222
3	3.42	**Chloride**	BMB*	4.174	27.283	9.9818
4	5.83	**Bromide**	BMB	0.109	0.582	0.9541
5	6.39	**Sulfate**	BM *	5.998	22.983	19.7998
6	6.94	**Nitrate**	MB*	1.133	4.333	1.0535
TOTAL:				12.00	59.66	32.81



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 15:54**	*Run Time:*	**10.00**

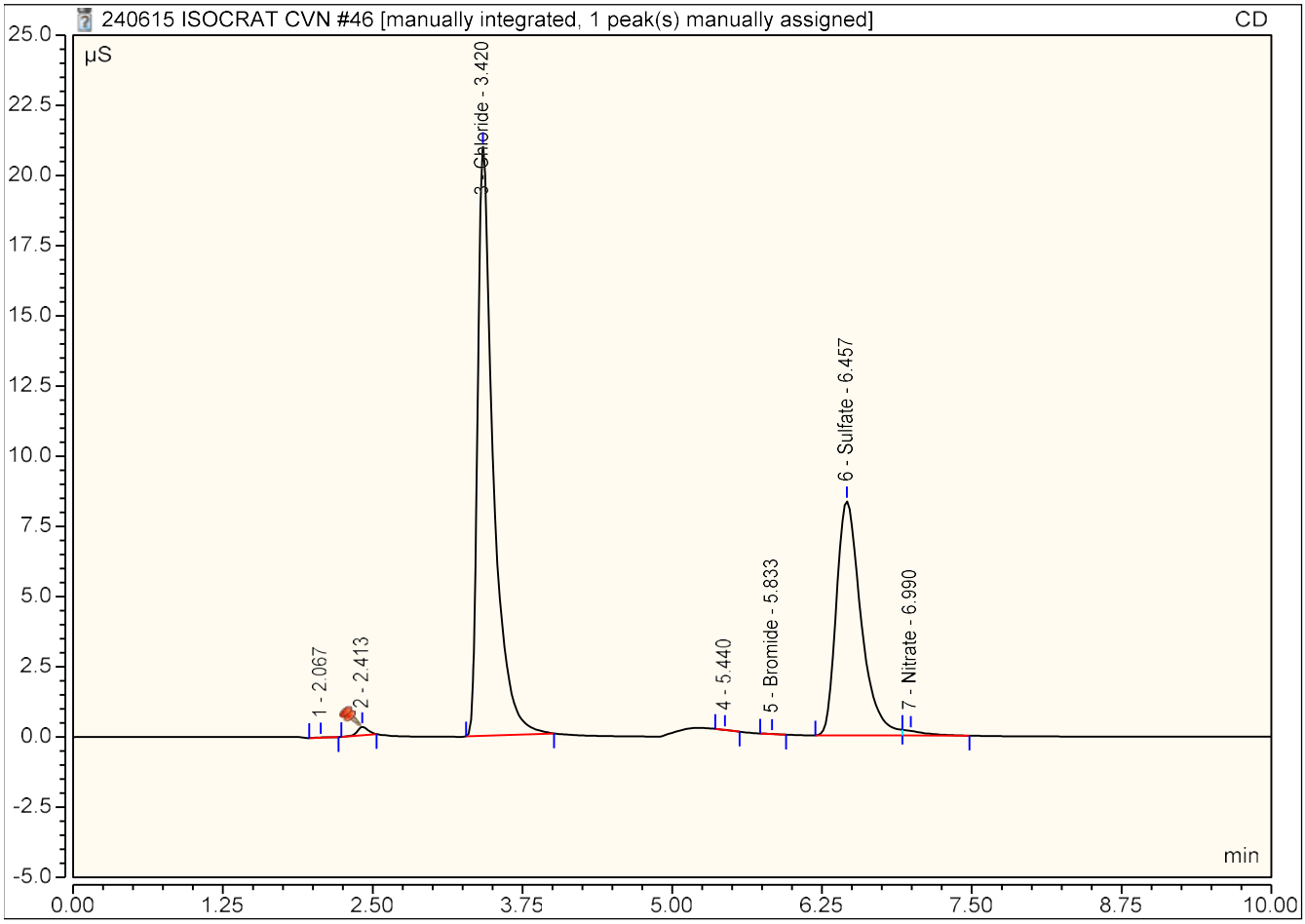
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.009	0.054	0.2538
3	6.51	**Sulfate**	BMB	0.005	0.018	0.4320
TOTAL:				0.01	0.07	0.69



Peak Integration Report

Sample Name:	**L2433303-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 16:06**	*Run Time:*	**10.00**

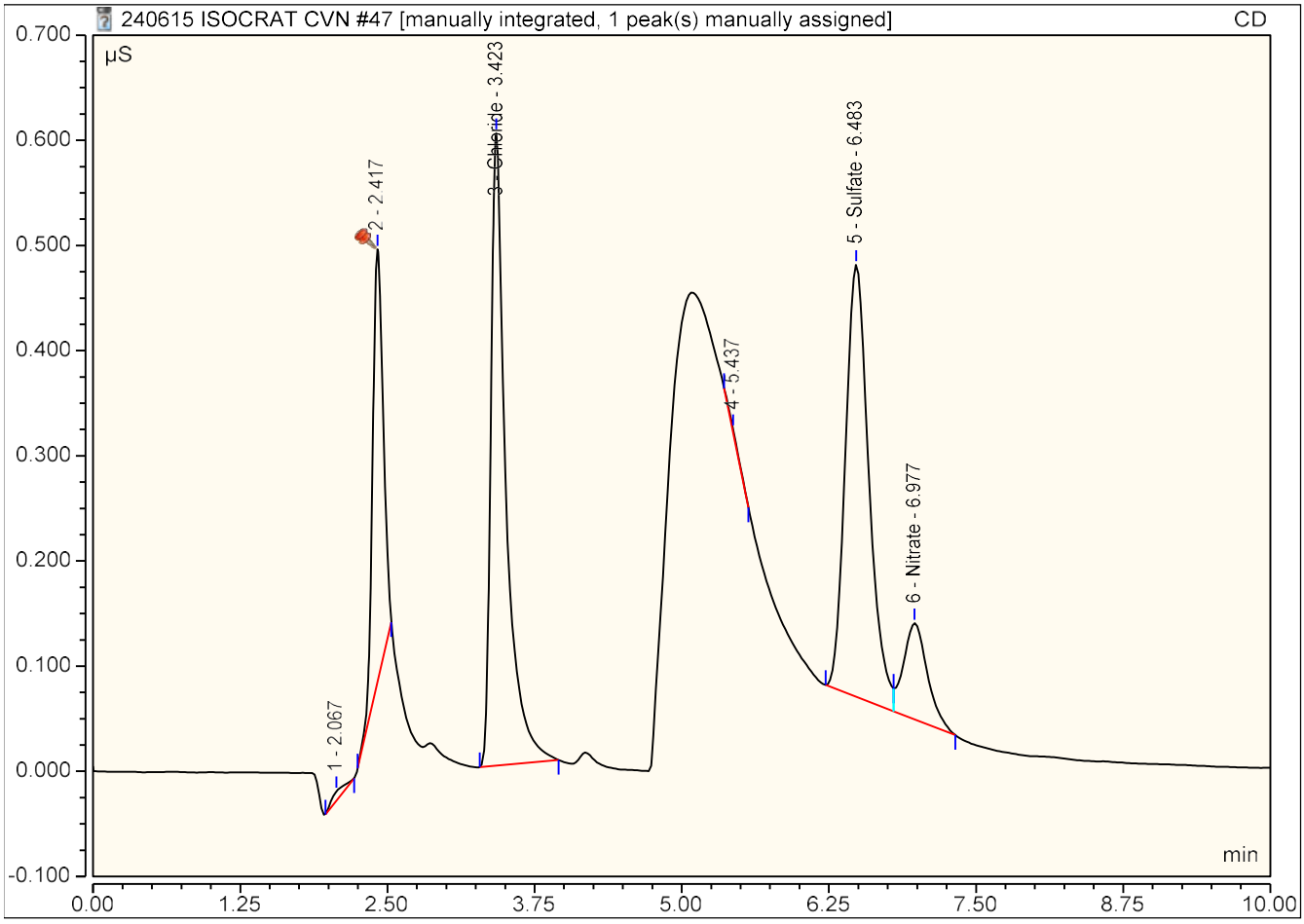
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	3.186	20.981	7.6748
5	5.83	**Bromide**	BMB	0.000	0.004	0.0401
6	6.46	**Sulfate**	BM *	1.994	8.339	6.8590
7	6.99	**Nitrate**	MB*	0.039	0.167	0.0656
TOTAL:				5.22	29.49	14.64



Peak Integration Report

Sample Name:	**L2433303-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 16:18**	*Run Time:*	**10.00**

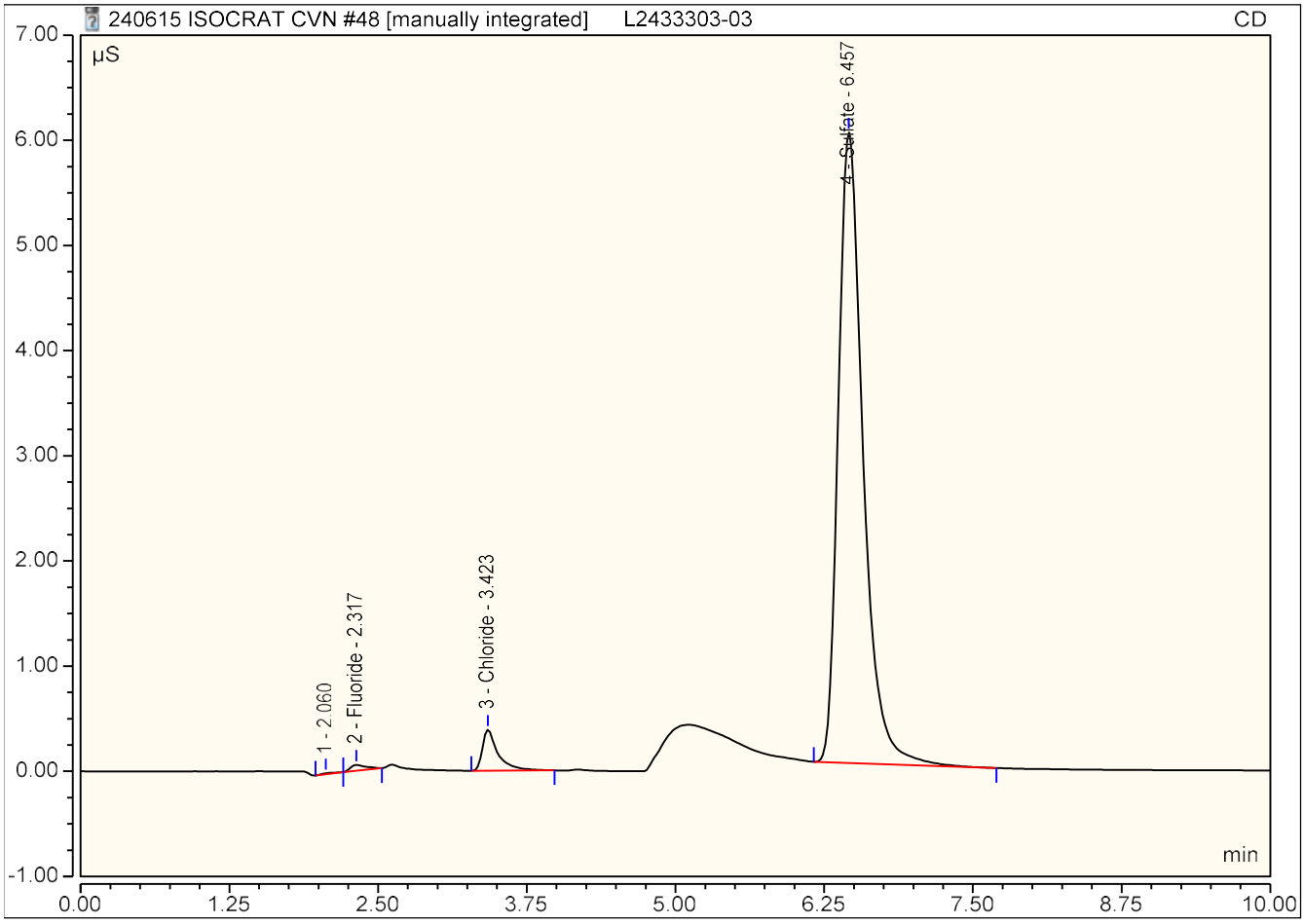
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.42	**Chloride**	BMB*	0.089	0.602	0.4418
5	6.48	**Sulfate**	BM *	0.095	0.411	0.7234
6	6.98	**Nitrate**	MB*	0.021	0.091	0.0500
TOTAL:				0.21	1.10	1.22



Peak Integration Report

Sample Name:	**L2433303-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 16:31**	*Run Time:*	**10.00**

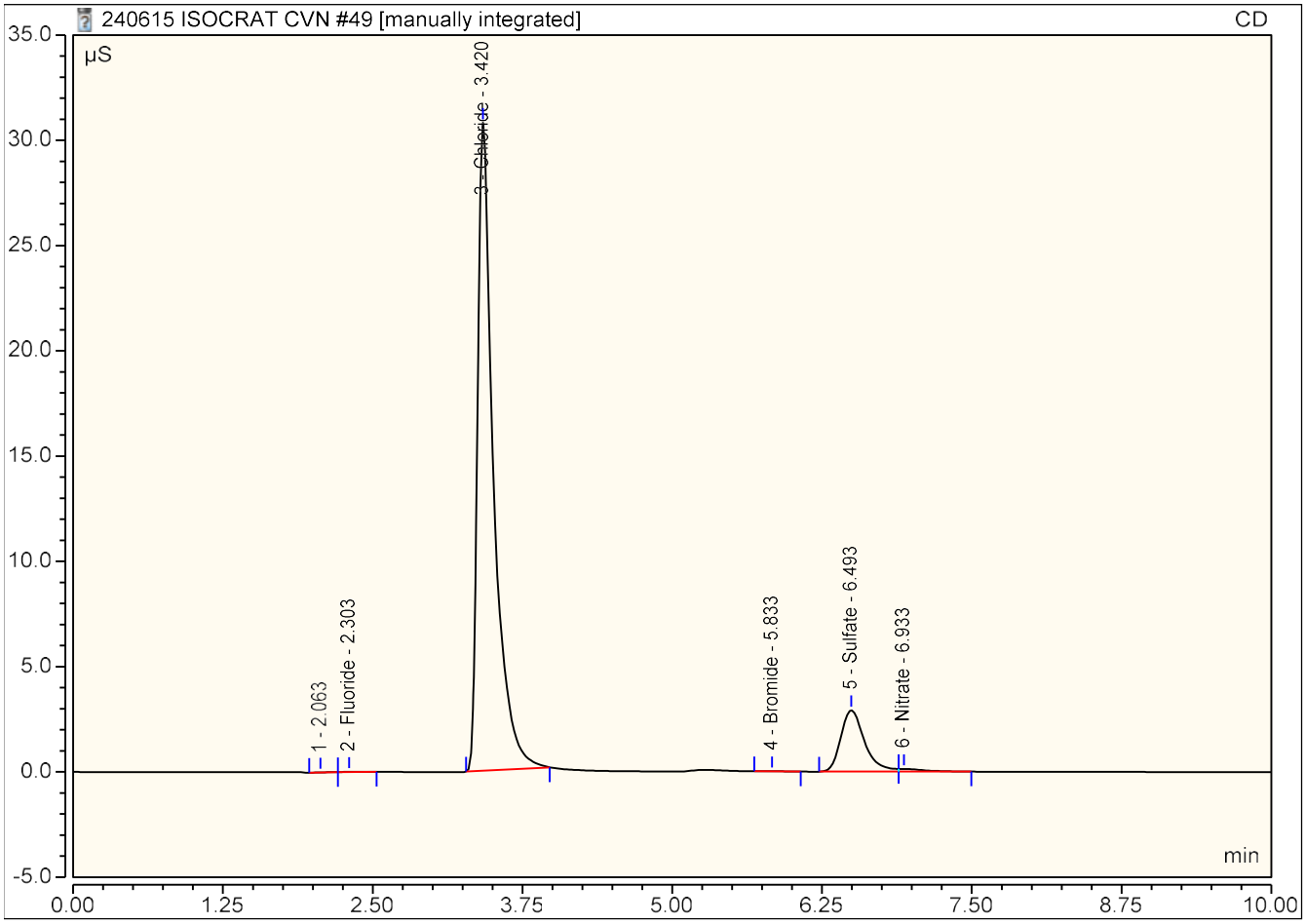
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.057	0.0652
3	3.42	**Chloride**	BMB*	0.059	0.389	0.3708
4	6.46	**Sulfate**	BMB	1.450	5.996	5.1037
TOTAL:				1.52	6.44	5.54



Peak Integration Report

Sample Name:	**L2432871-01 CL EFF; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 16:43**	*Run Time:*	**10.00**

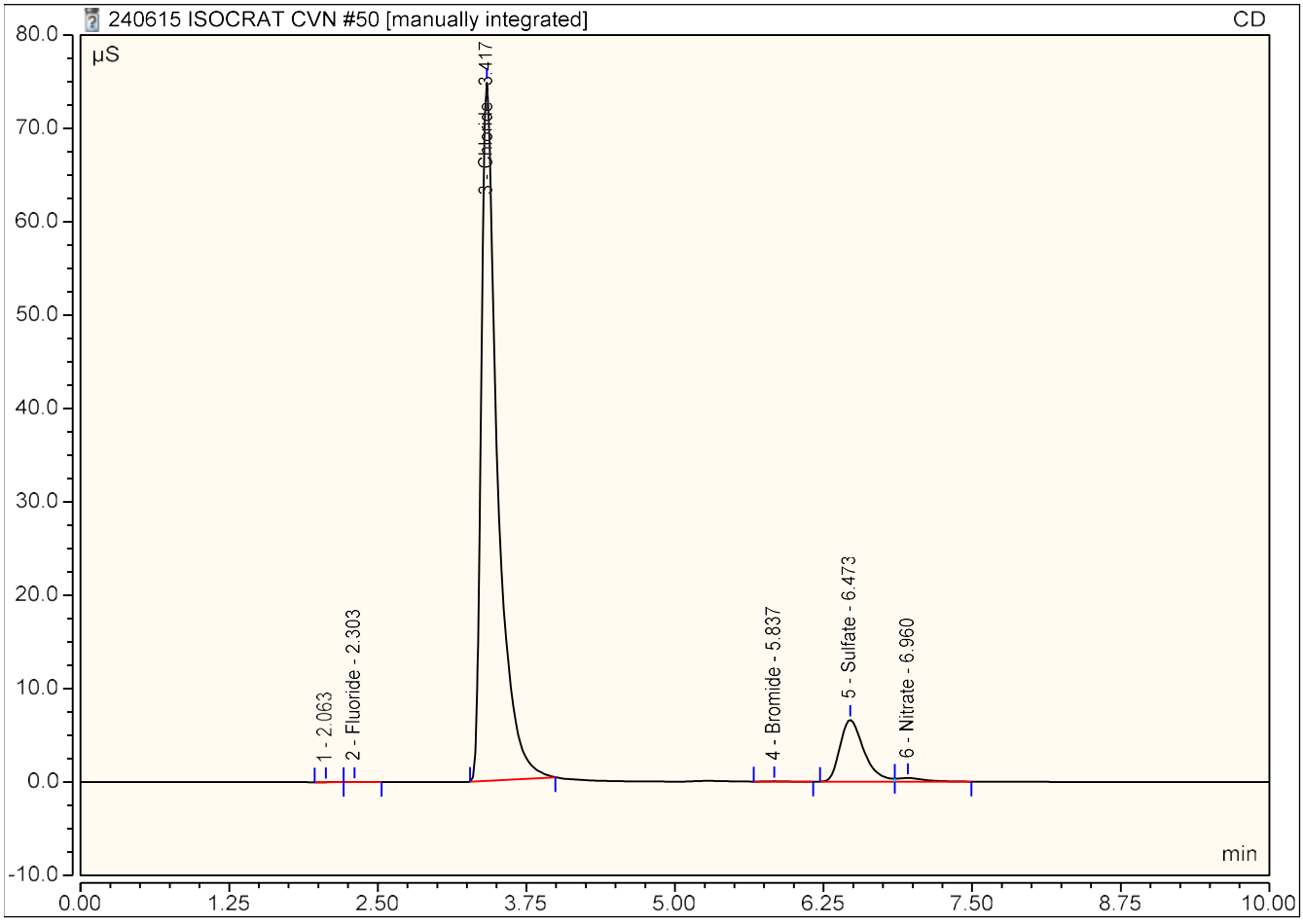
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.014	2.7356
3	3.42	**Chloride**	BMB*	4.752	30.770	566.6403
4	5.83	**Bromide**	BMB	0.003	0.015	2.8979
5	6.49	**Sulfate**	BM *	0.671	2.920	129.2210
6	6.93	**Nitrate**	MB*	0.031	0.129	2.9455
TOTAL:				5.46	33.85	704.44



Peak Integration Report

Sample Name:	**L2432871-02 INF: 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 16:55**	*Run Time:*	**10.00**

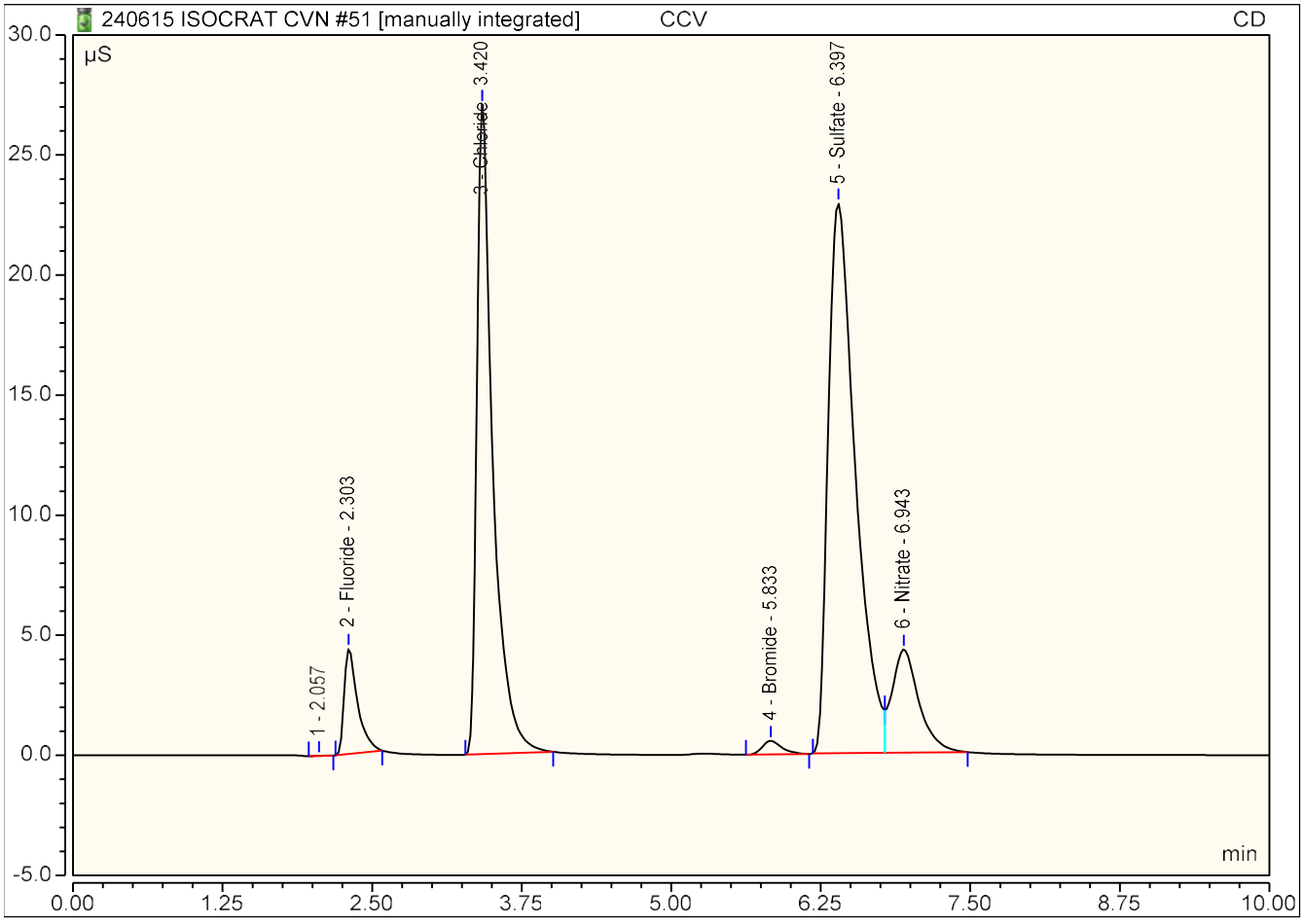
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.016	2.7657
3	3.42	**Chloride**	BMB*	11.910	74.768	1402.6258
4	5.84	**Bromide**	BMB	0.008	0.043	5.2412
5	6.47	**Sulfate**	BM *	1.546	6.616	270.6975
6	6.96	**Nitrate**	MB*	0.103	0.391	6.1628
TOTAL:				13.57	81.83	1687.49



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 17:07**	*Run Time:*	**10.00**

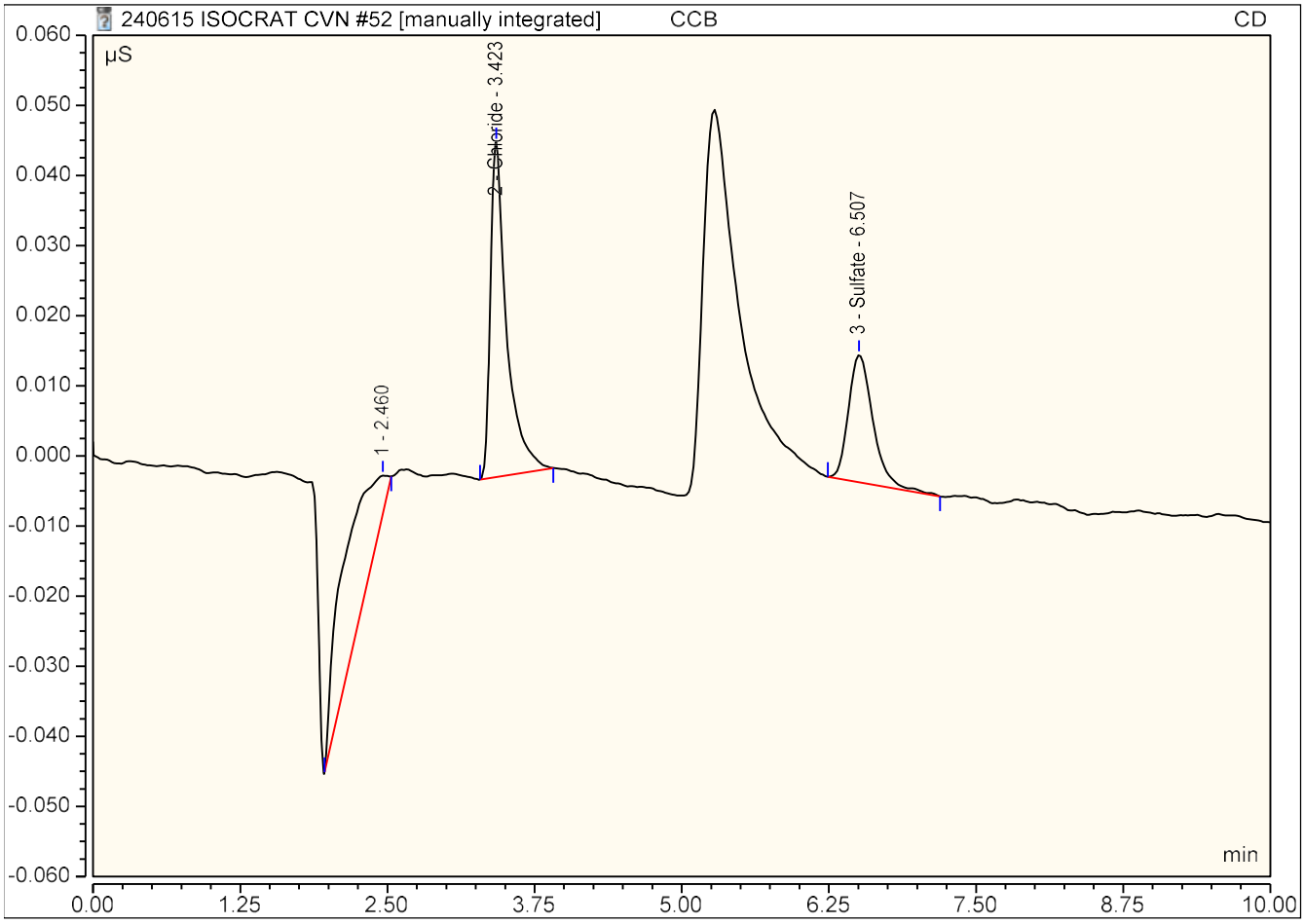
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.569	4.395	1.0021
3	3.42	**Chloride**	BMB*	4.187	27.052	10.0135
4	5.83	**Bromide**	BMB	0.108	0.572	0.9458
5	6.40	**Sulfate**	BM *	6.028	22.906	19.8964
6	6.94	**Nitrate**	MB*	1.121	4.294	1.0422
TOTAL:				12.01	59.22	32.90



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**15-Jun-2024 / 17:19**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB*	0.008	0.048	0.2511
3	6.51	**Sulfate**	BMB	0.004	0.018	0.4306
TOTAL:				0.01	0.07	0.68



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2384	n.a.	0.4226	n.a.
2	STD 0.5	1.0	0.0680	0.4130	0.0513	0.7547	0.0483
3	STD 1.0	1.0	0.0818	0.6145	0.0661	1.1659	0.0688
4	STD 2.0	1.0	0.1890	1.9848	0.1826	3.9467	0.1901
5	STD 3.0	1.0	0.4596	4.9033	0.4653	9.8731	0.4567
6	STD 4.0	1.0	1.9544	19.7101	2.0097	39.5794	2.0111
7	STD 5.0	1.0	5.0222	50.1243	5.7047	100.1801	5.7054
8	RINSE	1.0	n.a.	0.2538	n.a.	0.4231	n.a.
9	CCV	1.0	1.0245	9.9075	1.0573	19.7203	1.0105
10	CCB	1.0	n.a.	0.2519	n.a.	0.4378	n.a.
11	ICV	1.0	0.8272	8.1764	0.7963	7.9553	0.8175
12	ICB	1.0	n.a.	0.2501	n.a.	0.4329	n.a.
13	BLK	1.0	n.a.	0.2419	n.a.	0.4268	n.a.
14	LCS	1.0	0.8368	8.1581	0.7888	7.9317	0.8039
15	L2433740-01	1.0	0.0709	14.1537	n.a.	15.5213	0.0497
16	XL2433740-01; 10X	10.0	0.5133	15.8893	0.4300	17.8547	n.a.
17	L2433740-02	1.0	0.0673	14.3413	n.a.	11.2009	0.0499
18	XL2433740-02; 10X	10.0	0.5372	15.9732	0.3909	13.5796	n.a.
19	L2433740-01 MS	1.0	0.4020	17.5650	0.4700	22.6286	0.3519
20	L2433740-01 DUP	1.0	0.0704	14.1821	n.a.	15.5580	0.0488
21	CCV	1.0	1.0216	9.9402	1.0416	19.8216	0.9599
22	CCB	1.0	n.a.	0.2504	n.a.	0.4333	n.a.
23	L2432795-11 CL SO4; 10X	10.0	0.5589	158.1685	7.1227	46.0512	0.5307
24	L2432795-12; 10X	10.0	0.7218	340.7634	3.5017	62.7336	0.5104
25	L2432795-13; 10X	10.0	0.5587	366.8033	5.5705	44.0769	0.6198
26	L2433035-01 BR	1.0	0.0809	6.0719	1.9583	16.9394	n.a.
27	L2433025-02	1.0	0.0650	29.7855	3.8374	14.6411	0.0448
28	L2433035-03 MS	1.0	0.4515	8.3067	0.8908	13.4793	0.3229
29	L2433035-03 MSD	1.0	0.4564	8.2993	0.8912	13.4737	0.3216
30	L2433035-03	1.0	0.0955	4.5558	0.4861	5.8404	n.a.
31	L2433035-04	1.0	0.0668	9.9642	1.5337	16.0984	n.a.
32	L2433035-05	1.0	0.0959	20.4984	1.0964	16.2300	0.0420
33	CCV	1.0	1.0060	9.9666	1.0589	19.7825	0.9506
34	CCB	1.0	n.a.	0.2508	n.a.	0.4320	n.a.
35	L2433035-06	1.0	0.0790	13.7204	1.0881	43.3775	0.0582
36	L2433035-07	1.0	0.1027	12.1574	2.1776	52.3642	n.a.
37	L2433035-08	1.0	0.0833	17.2148	2.0179	17.4067	0.0430
38	L2433035-09	1.0	n.a.	0.2586	0.0332	0.4290	n.a.
39	L2433035-10	1.0	0.0666	9.7212	1.4961	15.7087	n.a.
40	L2432795-11	1.0	0.0888	146.9844	7.3436	41.5748	0.3034
41	L2432795-12	1.0	0.2530	302.0566	3.5136	55.6628	0.3100
42	L2432795-13	1.0	0.0880	337.0508	5.8121	40.1260	0.4298

43	XL2432795-13: 10X	10.0	0.7233	342.1397	3.5836	62.8428	0.5179
44	CCV	1.0	1.0222	9.9818	1.0535	19.7998	0.9541
45	CCB	1.0	n.a.	0.2538	n.a.	0.4320	n.a.
46	L2433303-01 BR CL SO4	1.0	n.a.	7.6748	0.0656	6.8590	0.0401
47	L2433303-02	1.0	n.a.	0.4418	0.0500	0.7234	n.a.
48	L2433303-03	1.0	0.0652	0.3708	n.a.	5.1037	n.a.
49	L2432871-01 CL EFF; 50X	50.0	2.7356	566.6403	2.9455	129.2210	2.8979
50	L2432871-02 INF: 50X	50.0	2.7657	1402.6258	6.1628	270.6975	5.2412
51	CCV	1.0	1.0021	10.0135	1.0422	19.8964	0.9458
52	CCB	1.0	n.a.	0.2511	n.a.	0.4306	n.a.
	Sum:	204.000	26.3793		79.7877	1362.2831	27.6565
	Average:	3.923	0.6595		2.0458	26.1978	0.8381
	Rel.Std.Dev:	248.414 %	1.4675		1.0360	1.6455	1.5984

Inject Time	Comment
12/Jun/2024 16:46	AU
12/Jun/2024 16:58	LOT#240606-0.5
12/Jun/2024 17:10	LOT#240606-1.0
12/Jun/2024 17:22	LOT#240606-2.0
12/Jun/2024 17:34	LOT#240606-3.0
12/Jun/2024 17:46	LOT#240606-4.0
12/Jun/2024 17:58	LOT#240508-5.0
15/Jun/2024 08:27	WG1934806-4814
15/Jun/2024 08:39	LOT#240611-C
15/Jun/2024 08:51	CVN
15/Jun/2024 09:03	LOT#240611-I
15/Jun/2024 09:15	CVN
15/Jun/2024 09:27	CVN
15/Jun/2024 09:40	LOT#240611-I
15/Jun/2024 09:52	CVN
15/Jun/2024 10:04	CVN
15/Jun/2024 10:16	CVN
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15/Jun/2024 15:18	CVN

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Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-1SR	**Matrix**	: WATER
Lab Sample ID	: L2433035-03		
Matrix Spike	: WG1934814-3	**MS Analysis Date**	: 06/15/24 12:29
Matrix Spike Dup	: WG1934814-4	**MSD Analysis Date**	: 06/15/24 12:41

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.323	81	Q	0.4	0.322	80	Q	0	90-110	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2433035
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1934814-2	**LCS Analysis Date**	: 06/15/24 09:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.804	100.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 18, 2024

Jennifer Byrnes

,

RE: Project: L2433035
Pace Project No.: 70301297

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

REVISION #1: Report re-issued on 6/18/24 to update sample ID for sample 004

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2433035
Pace Project No.: 70301297

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301297001	**MW-8S**	Water	06/12/24 13:55	06/12/24 17:14
70301297002	**MW-8D**	Water	06/12/24 13:56	06/12/24 17:14
70301297003	**MW-1SR**	Water	06/12/24 08:30	06/12/24 17:14
70301297004	**MW-1DR2**	Water	06/12/24 08:34	06/12/24 17:14
70301297005	**MP-1**	Water	06/12/24 10:30	06/12/24 17:14
70301297006	**MP-1D**	Water	06/12/24 10:50	06/12/24 17:14
70301297007	**PZ-6**	Water	06/12/24 12:25	06/12/24 17:14
70301297008	**MW-6D**	Water	06/12/24 12:38	06/12/24 17:14
70301297009	**EB_06122024**	Water	06/12/24 09:40	06/12/24 17:14
70301297010	**DUP_06122024**	Water	06/12/24 12:00	06/12/24 17:14

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Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301297001	**MW-8S**	SM22 4500-S2 F	CEA	1
70301297002	**MW-8D**	SM22 4500-S2 F	CEA	1
70301297003	**MW-1SR**	SM22 4500-S2 F	CEA	1
70301297004	**MW-1DR2**	SM22 4500-S2 F	CEA	1
70301297005	**MP-1**	SM22 4500-S2 F	CEA	1
70301297006	**MP-1D**	SM22 4500-S2 F	CEA	1
70301297007	**PZ-6**	SM22 4500-S2 F	CEA	1
70301297008	**MW-6D**	SM22 4500-S2 F	CEA	1
70301297009	**EB_06122024**	SM22 4500-S2 F	CEA	1
70301297010	**DUP_06122024**	SM22 4500-S2 F	CEA	1

PACE-MV = Pace Analytical Services - Melville

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516-370-6000

ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-8S **Lab ID: 70301297001** Collected: 06/12/24 13:55 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.20U**	mg/L	2.0	0.20	1		06/17/24 15:10		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-8D **Lab ID: 70301297002** Collected: 06/12/24 13:56 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:11		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-1SR **Lab ID: 70301297003** Collected: 06/12/24 08:30 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:03		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-1DR2 **Lab ID: 70301297004** Collected: 06/12/24 08:34 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:12		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MP-1 **Lab ID: 70301297005** Collected: 06/12/24 10:30 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:13		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MP-1D **Lab ID: 70301297006** Collected: 06/12/24 10:50 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:14		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: PZ-6 **Lab ID: 70301297007** Collected: 06/12/24 12:25 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:16		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-6D **Lab ID: 70301297008** Collected: 06/12/24 12:38 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.32J**	mg/L	2.0	0.20	1		06/17/24 15:17		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: EB_06122024 **Lab ID: 70301297009** Collected: 06/12/24 09:40 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:18		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: DUP_06122024 **Lab ID: 70301297010** Collected: 06/12/24 12:00 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:19		

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516-370-6000

QUALITY CONTROL DATA

Project: L2433035
Pace Project No.: 70301297

QC Batch: 351937
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301297001, 70301297002, 70301297003, 70301297004, 70301297005, 70301297006, 70301297007, 70301297008, 70301297009, 70301297010

METHOD BLANK: 1822674 Matrix: Water
Associated Lab Samples: 70301297001, 70301297002, 70301297003, 70301297004, 70301297005, 70301297006, 70301297007, 70301297008, 70301297009, 70301297010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	0.20U	2.0	0.20	06/17/24 14:52	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822701

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822702

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822703

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822704

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1822678

Parameter	Units	70301297003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	<0.20	0.20U		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2433035
Pace Project No.: 70301297

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301297001	**MW-8S**	SM22 4500-S2 F	351937		
70301297002	**MW-8D**	SM22 4500-S2 F	351937		
70301297003	**MW-1SR**	SM22 4500-S2 F	351937		
70301297004	**MW-1DR2**	SM22 4500-S2 F	351937		
70301297005	**MP-1**	SM22 4500-S2 F	351937		
70301297006	**MP-1D**	SM22 4500-S2 F	351937		
70301297007	**PZ-6**	SM22 4500-S2 F	351937		
70301297008	**MW-6D**	SM22 4500-S2 F	351937		
70301297009	**EB_06122024**	SM22 4500-S2 F	351937		
70301297010	**DUP_06122024**	SM22 4500-S2 F	351937		

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WO# : 70301297

70301297

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433035

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-8S	06-12-24 13:55	WATER	Sulfide	
	MW-8D	06-12-24 13:56	WATER	Sulfide	
	MW-1SR	06-12-24 08:30	WATER	Sulfide	MS;MSD
	MW-2DR2	06-12-24 08:34	WATER	Sulfide	
	MP-1	06-12-24 10:30	WATER	Sulfide	
	MP-1D	06-12-24 10:50	WATER	Sulfide	
	PZ-6	06-12-24 12:25	WATER	Sulfide	
	MW-6D	06-12-24 12:38	WATER	Sulfide	

Relinquished By:	Date/Time:	Received By:	Date/Time:
		ASF PACE L1	6/12/24 8:00

Form No: AL_subcoc

ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433035

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06122024	06-12-24 09:40	WATER	Sulfide	
	DUP_06122024	06-12-24 12:00	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			ASP PACE LZ	6/12/24 8:00
Form No: AL_subcoc				

Client: ALPHA

Work Order #: L2433035

Profile #: 5378

COC Page _____ of _____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

Sample ID	Matrix	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BGH	LLHG	BG1N	IOC	SOC	BP2Z
1																																																																2
2																																																																					2
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10																																																																				2
11																																																																				
12																																																																				

Container Codes

Glass				Plastic	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
VG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ec)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
WG9O	8oz clear soil jar	AG1A	1L Ammonium Chloride	BP3S	250mL Ammonium Acetate
WG4O	4oz clear soil jar	AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH
		AG44	Ammonium Cl 120mL bottle	BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe
LLHG	Low Level Hg Bottles
BG1N	1L HNO3 Clear Glass

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass
BP3U	250mL unpreserved plastic

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials MD

Additional Comments

2 page COC

WO#: 70301297
PM: BDR Due Date: 06/20/24
CLIENT: ALPHA

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301297
PM: BDR Due Date: 06/20/24
CLIENT: ALPHA

Client Name: Alpha Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH11 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ASF 6/12/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested	☑Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: ASF 6/12/24

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 20623				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution: Did not receive 2 extra 2 bottles for the MS/MSD. For location 4 COC says MW-2DR2 but bottle says MW-1DR2 and time matches

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 26, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2433035
Pace Project No.: 50376107

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2433035
Pace Project No.: 50376107

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SAMPLE SUMMARY

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376107001	**MW-8S**	Water	06/12/24 13:55	06/18/24 10:00
50376107002	**MW-8D**	Water	06/12/24 13:56	06/18/24 10:00
50376107003	**MW-1SR**	Water	06/12/24 08:30	06/18/24 10:00
50376107004	**MW-1DR2**	Water	06/12/24 08:34	06/18/24 10:00
50376107005	**MP-1**	Water	06/12/24 10:30	06/18/24 10:00
50376107006	**MP-1D**	Water	06/12/24 10:50	06/18/24 10:00
50376107007	**PZ-6**	Water	06/12/24 12:25	06/18/24 10:00
50376107008	**MW-6D**	Water	06/12/24 12:38	06/18/24 10:00
50376107009	**EB_06122024**	Water	06/12/24 09:40	06/18/24 10:00
50376107010	**DUP_06122024**	Water	06/12/24 12:00	06/18/24 10:00

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SAMPLE ANALYTE COUNT

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376107001	**MW-8S**	EPA 9056	ADM	1
50376107002	**MW-8D**	EPA 9056	ADM	1
50376107003	**MW-1SR**	EPA 9056	ADM	1
50376107004	**MW-1DR2**	EPA 9056	ADM	1
50376107005	**MP-1**	EPA 9056	ADM	1
50376107006	**MP-1D**	EPA 9056	ADM	1
50376107007	**PZ-6**	EPA 9056	ADM	1
50376107008	**MW-6D**	EPA 9056	ADM	1
50376107009	**EB_06122024**	EPA 9056	ADM	1
50376107010	**DUP_06122024**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-8S **Lab ID: 50376107001** Collected: 06/12/24 13:55 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:34		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-8D **Lab ID: 50376107002** Collected: 06/12/24 13:56 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:56		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-1SR **Lab ID: 50376107003** Collected: 06/12/24 08:30 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 19:17		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-1DR2 **Lab ID: 50376107004** Collected: 06/12/24 08:34 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:07		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MP-1 **Lab ID: 50376107005** Collected: 06/12/24 10:30 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:29		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MP-1D **Lab ID: 50376107006** Collected: 06/12/24 10:50 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:50		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: PZ-6 **Lab ID: 50376107007** Collected: 06/12/24 12:25 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:12		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-6D **Lab ID: 50376107008** Collected: 06/12/24 12:38 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:34		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: EB_06122024 **Lab ID: 50376107009** Collected: 06/12/24 09:40 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:56		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: DUP_06122024 **Lab ID: 50376107010** Collected: 06/12/24 12:00 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 23:18		

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QUALITY CONTROL DATA

Project: L2433035
Pace Project No.: 50376107

QC Batch: 796576 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50376107001, 50376107002, 50376107003, 50376107004, 50376107005, 50376107006, 50376107007, 50376107008, 50376107009, 50376107010

METHOD BLANK: 3644656 Matrix: Water

Associated Lab Samples: 50376107001, 50376107002, 50376107003, 50376107004, 50376107005, 50376107006, 50376107007, 50376107008, 50376107009, 50376107010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/22/24 13:14	

LABORATORY CONTROL SAMPLE: 3644657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644658 3644659

Parameter	Units	50376107003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALIFIERS

Project: L2433035
Pace Project No.: 50376107

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376107001	**MW-8S**	EPA 9056	796576		
50376107002	**MW-8D**	EPA 9056	796576		
50376107003	**MW-1SR**	EPA 9056	796576		
50376107004	**MW-1DR2**	EPA 9056	796576		
50376107005	**MP-1**	EPA 9056	796576		
50376107006	**MP-1D**	EPA 9056	796576		
50376107007	**PZ-6**	EPA 9056	796576		
50376107008	**MW-6D**	EPA 9056	796576		
50376107009	**EB_06122024**	EPA 9056	796576		
50376107010	**DUP_06122024**	EPA 9056	796576		

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WO# : 50376107

50376107

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433035

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-8S	06-12-24 13:55	WATER	Iodide	
	MW-8D	06-12-24 13:56	WATER	Iodide	
	MW-1SR	06-12-24 08:30	WATER	Iodide	MS;MSD
	MW-1DR2	06-12-24 08:34	WATER	Iodide	
	MP-1	06-12-24 10:30	WATER	Iodide	
	MP-1D	06-12-24 10:50	WATER	Iodide	
	PZ-6	06-12-24 12:25	WATER	Iodide	
	MW-6D	06-12-24 12:38	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/17/24	UPS	
	UPS	6/18/24 1000	Marcus Weinstein	6/18/24 1000
Form No: AL_subcoc				

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433035

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Report to MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06122024	06-12-24 09:40	WATER	Iodide	
	DUP_06122024	06-12-24 12:00	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/17/24	UPS	
	UPS	6/18/24 1000	Marcus Winkler	6/18/24 1000
Form No: AL_subcoc				

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/18/24 1155 -MDW

1. **Courier:** ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I
4. **Cooler Temperature(s):** (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

1.1/1.1			

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

			MeOH (only) / SBS / DI / R	AMBER GLASS											PLASTIC									OTHER					Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
COC Line Item	WGFU	WGKU BG1U		DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit							
1																		2											SW				
2																		1															
3																		6															
4																		2															
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																		2											SL
2																		1											SL
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Amended Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Debbie S Robertson

Purchase Order:

For further assistance, contact:
Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2433035 MW-8S
Lab ID: 2024-U-4545 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.65 mg	2024-06-27

Sample: L2433035 MW-8D
Lab ID: 2024-U-4546 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.04 mg	2024-06-27

Sample: L2433035 MW-1SR
Lab ID: 2024-U-4547 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	200.99 mg	2024-06-27

Sample: L2433035 MW-1SR +ms
Lab ID: 2024-U-4548 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.83 mg	2024-06-27

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Sample: L2433035 MW-1SR +sd
Lab ID: 2024-U-4549 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	218.11 mg	2024-06-27

Sample: L2433035 MW-2DR2
Lab ID: 2024-U-4550 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.80 mg	2024-06-27

Sample: L2433035 MP-1
Lab ID: 2024-U-4551 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.71 mg	2024-06-27

Sample: L2433035 MP-1D
Lab ID: 2024-U-4552 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.73 mg	2024-06-27

Sample: L2433035 PZ-6
Lab ID: 2024-U-4553 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.79 mg	2024-06-27

Sample: L2433035 MW-6D
Lab ID: 2024-U-4554 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.88 mg	2024-06-27

Sample: L2433035 EB_06122024

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Lab ID: 2024-U-4555 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.64 mg	2024-06-27

Sample: L2433035 DUP_06122024
Lab ID: 2024-U-4556 **Received:** 2024-06-18

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.79 mg	2024-06-27

For all samples on this report:

1. Amended Report: This report amends data included in report 155452

Signatures:

Published By:	Debbie.S.Robertson	2024-06-28T21:11:18.66-04:00
Created By:	Debbie.S.Robertson	2024-06-28T21:10:58.38-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70301297

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 19, 2024

Jennifer Byrnes

,

RE: Project: L2433035
Pace Project No.: 70301297

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

REVISION #1: Report re-issued on 6/18/24 to update sample ID for sample 004

REVISION #2: Report re-issued on 6/19/24 to include case narrative

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2433035
Pace Project No.: 70301297

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301297001	**MW-8S**	Water	06/12/24 13:55	06/12/24 17:14
70301297002	**MW-8D**	Water	06/12/24 13:56	06/12/24 17:14
70301297003	**MW-1SR**	Water	06/12/24 08:30	06/12/24 17:14
70301297004	**MW-1DR2**	Water	06/12/24 08:34	06/12/24 17:14
70301297005	**MP-1**	Water	06/12/24 10:30	06/12/24 17:14
70301297006	**MP-1D**	Water	06/12/24 10:50	06/12/24 17:14
70301297007	**PZ-6**	Water	06/12/24 12:25	06/12/24 17:14
70301297008	**MW-6D**	Water	06/12/24 12:38	06/12/24 17:14
70301297009	**EB_06122024**	Water	06/12/24 09:40	06/12/24 17:14
70301297010	**DUP_06122024**	Water	06/12/24 12:00	06/12/24 17:14

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SAMPLE ANALYTE COUNT

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301297001	**MW-8S**	SM22 4500-S2 F	CEA	1
70301297002	**MW-8D**	SM22 4500-S2 F	CEA	1
70301297003	**MW-1SR**	SM22 4500-S2 F	CEA	1
70301297004	**MW-1DR2**	SM22 4500-S2 F	CEA	1
70301297005	**MP-1**	SM22 4500-S2 F	CEA	1
70301297006	**MP-1D**	SM22 4500-S2 F	CEA	1
70301297007	**PZ-6**	SM22 4500-S2 F	CEA	1
70301297008	**MW-6D**	SM22 4500-S2 F	CEA	1
70301297009	**EB_06122024**	SM22 4500-S2 F	CEA	1
70301297010	**DUP_06122024**	SM22 4500-S2 F	CEA	1

PACE-MV = Pace Analytical Services - Melville

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516-370-6000

PROJECT NARRATIVE

Project: L2433035
Pace Project No.: 70301297

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: June 19, 2024

General Information:
10 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-8S **Lab ID: 70301297001** Collected: 06/12/24 13:55 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.20U**	mg/L	2.0	0.20	1		06/17/24 15:10		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-8D **Lab ID: 70301297002** Collected: 06/12/24 13:56 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:11		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-1SR **Lab ID: 70301297003** Collected: 06/12/24 08:30 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:03		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-1DR2 **Lab ID: 70301297004** Collected: 06/12/24 08:34 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:12		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MP-1 **Lab ID: 70301297005** Collected: 06/12/24 10:30 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:13		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MP-1D **Lab ID: 70301297006** Collected: 06/12/24 10:50 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:14		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: PZ-6 **Lab ID: 70301297007** Collected: 06/12/24 12:25 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:16		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: MW-6D **Lab ID: 70301297008** Collected: 06/12/24 12:38 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**0.32J**	mg/L	2.0	0.20	1		06/17/24 15:17		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: EB_06122024 **Lab ID: 70301297009** Collected: 06/12/24 09:40 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:18		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 70301297

Sample: DUP_06122024 **Lab ID: 70301297010** Collected: 06/12/24 12:00 Received: 06/12/24 17:14 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		06/17/24 15:19		

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516-370-6000

QUALITY CONTROL DATA

Project: L2433035
Pace Project No.: 70301297

QC Batch: 351937
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301297001, 70301297002, 70301297003, 70301297004, 70301297005, 70301297006, 70301297007, 70301297008, 70301297009, 70301297010

METHOD BLANK: 1822674 Matrix: Water
Associated Lab Samples: 70301297001, 70301297002, 70301297003, 70301297004, 70301297005, 70301297006, 70301297007, 70301297008, 70301297009, 70301297010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	0.20U	2.0	0.20	06/17/24 14:52	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822701

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822702

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822703

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822704

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1822678

Parameter	Units	70301297003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	<0.20	0.20U		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2433035
Pace Project No.: 70301297

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433035
Pace Project No.: 70301297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301297001	**MW-8S**	SM22 4500-S2 F	351937		
70301297002	**MW-8D**	SM22 4500-S2 F	351937		
70301297003	**MW-1SR**	SM22 4500-S2 F	351937		
70301297004	**MW-1DR2**	SM22 4500-S2 F	351937		
70301297005	**MP-1**	SM22 4500-S2 F	351937		
70301297006	**MP-1D**	SM22 4500-S2 F	351937		
70301297007	**PZ-6**	SM22 4500-S2 F	351937		
70301297008	**MW-6D**	SM22 4500-S2 F	351937		
70301297009	**EB_06122024**	SM22 4500-S2 F	351937		
70301297010	**DUP_06122024**	SM22 4500-S2 F	351937		

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WO# : 70301297

70301297

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433035

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-8S	06-12-24 13:55	WATER	Sulfide	
	MW-8D	06-12-24 13:56	WATER	Sulfide	
	MW-1SR	06-12-24 08:30	WATER	Sulfide	MS;MSD
	MW-2DR2	06-12-24 08:34	WATER	Sulfide	
	MP-1	06-12-24 10:30	WATER	Sulfide	
	MP-1D	06-12-24 10:50	WATER	Sulfide	
	PZ-6	06-12-24 12:25	WATER	Sulfide	
	MW-6D	06-12-24 12:38	WATER	Sulfide	

Relinquished By:	Date/Time:	Received By:	Date/Time:
		ASF PACE L1	6/12/24 8:00

Form No: AL_subcoc

ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2433035

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06122024	06-12-24 09:40	WATER	Sulfide	
	DUP_06122024	06-12-24 12:00	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			ASP PACE LZ	6/12/24 8:00
Form No: AL_subcoc				

Client: ALPHA

Work Order #: L2433035

Profile #: 5378

COC Page _____ of _____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

Sample ID	Matrix	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BGH	LLHG	BG1N	IOC	SOC	BP2Z
1																																																																							2
2																																																																													2
3																																																																													2
4																																																																													2
5																																																																																	2
6																																																																																		2
7																																																																																			2
8																																																																																								2
9																																																																																														2
10																		

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301297
PM: BDR
Due Date: 06/20/24
CLIENT: ALPHA

Client Name: Alpha
Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH11 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: ASF 6/12/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested	☑Yes	☐No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: ASF 6/12/24

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 20623				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution: Did not receive 2 extra 2 bottles for the MS/MSD. For location 4 COC says MW-2DR2 but bottle says MW-1DR2 and time matches

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

SAMPLE NO.

MW-8S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	0.20	U	mg/L	1	06/17/2024 15:10

SAMPLE NO.

MW-8D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:11

SAMPLE NO.

MW-1SR

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:03

SAMPLE NO.

MW-2DR2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:12

SAMPLE NO.

MP-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:13

SAMPLE NO.

MP-1D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:14

SAMPLE NO.

PZ-6

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:16

SAMPLE NO.

MW-6D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	0.32	J	mg/L	1	06/17/2024 15:17

SAMPLE NO.

EB_06122024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:18

SAMPLE NO.

DUP_06122024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Lab Sample ID: 70301297010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	06/17/2024 15:19

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract : L2433035

Method Blank Matrix: Water Instrument ID: 70WET0

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	1822674	C
Sulfide									0.20	U

SAMPLE NO.

1822678DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	<0.20	0.20U	

SAMPLE NO.

1822701LCSD

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1822702LCSD

FORM VI INORGANIC-3
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1822703LCSD

FORM VI INORGANIC-4
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1822704LCSD

FORM VI INORGANIC-5
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

1822675LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1822701LCSD

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1822702LCSD

FORM VII INORGANIC-3
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1822703LCSD

FORM VII INORGANIC-4
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

1822704LCSD

FORM VII INORGANIC-5
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Preparation Method: SM22 4500-S2 F Batch: WET 81375

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
1822674	1822674BLANK	06/17/2024	200	200
1822675	1822675LCS	06/17/2024	200	200
1822678	1822678DUP	06/17/2024	250	250
1822701	1822701LCSD	06/17/2024	200	200
1822702	1822702LCSD	06/17/2024	200	200
1822703	1822703LCSD	06/17/2024	200	200
1822704	1822704LCSD	06/17/2024	200	200
70301297001	MW-8S	06/17/2024	250	250
70301297002	MW-8D	06/17/2024	250	250
70301297003	MW-1SR	06/17/2024	250	250
70301297004	MW-2DR2	06/17/2024	250	250
70301297005	MP-1	06/17/2024	250	250
70301297006	MP-1D	06/17/2024	250	250
70301297007	PZ-6	06/17/2024	250	250
70301297008	MW-6D	06/17/2024	250	250
70301297009	EB_06122024	06/17/2024	250	250
70301297010	DUP_06122024	06/17/2024	250	250

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70301297 Contract: L2433035

Instrument ID: 70WET0 Analysis Method: SM22 4500-S2 F

Start Date: 06/17/2024 14:52 End Date: 06/17/2024 15:19

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
1822674BLANK	1822674	1	06/17/2024	14:52	X
1822675LCS	1822675	1	06/17/2024	14:53	X
1822701LCSD	1822701	1	06/17/2024	14:54	X
1822702LCSD	1822702	1	06/17/2024	14:56	X
1822703LCSD	1822703	1	06/17/2024	14:57	X
1822704LCSD	1822704	1	06/17/2024	14:58	X
MW-1SR	70301297003	1	06/17/2024	15:03	X
1822678DUP	1822678	1	06/17/2024	15:04	X
MW-8S	70301297001	1	06/17/2024	15:10	X
MW-8D	70301297002	1	06/17/2024	15:11	X
MW-2DR2	70301297004	1	06/17/2024	15:12	X
MP-1	70301297005	1	06/17/2024	15:13	X
MP-1D	70301297006	1	06/17/2024	15:14	X
PZ-6	70301297007	1	06/17/2024	15:16	X
MW-6D	70301297008	1	06/17/2024	15:17	X
EB_06122024	70301297009	1	06/17/2024	15:18	X
DUP_06122024	70301297010	1	06/17/2024	15:19	X

Prep Log Report

Batch Information: WET_81375_SULFIDE_6/17/24 **4500S2F | Sulfide**

Analysis Method	SM22 4500-S2 F	Instrument	70WET0	Analyzed By	CEA	1:1 HCl	182477
Starch Indicator Solution	180078	Reviewed By	SDO	Reviewed By Date	06/18/2024 09:36	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	**1822674**	Y	200	183291 (5)	28.2	33.2	183216 (5.00)	0.00	mg/L	06/17/2024 14:52:45	Yes	163130 ()	
4500S2F W	LCS	**1822675**	Y	200	183291 (10)	33.2	36.2	183216 (3.00)	14.00	mg/L	06/17/2024 14:53:50	Yes	163130 ()	
4500S2F W	LCSD	**1822701**	Y	200	183291 (10)	36.2	39.2	183216 (3.00)	14.00	mg/L	06/17/2024 14:54:55	Yes	163130 ()	
4500S2F W	LCSD	**1822702**	Y	200	183291 (10)	39.2	42.2	183216 (3.00)	14.00	mg/L	06/17/2024 14:56:00	Yes	163130 ()	
4500S2F W	LCSD	**1822703**	Y	200	183291 (10)	42.2	45.2	183216 (3.00)	14.00	mg/L	06/17/2024 14:57:05	Yes	163130 ()	
4500S2F W	LCSD	**1822704**	Y	200	183291 (10)	45.2	48.2	183216 (3.00)	14.00	mg/L	06/17/2024 14:58:10	Yes	163130 ()	
4500S2F W	RQS	**70301297003**	Y	250	183291 (5)	5.5	10.5	183216 (5.00)	0.00	mg/L	06/17/2024 15:03:49	Yes	163130 ()	
4500S2F W	DUP	**1822678**	Y	250	183291 (5)	10.5	15.5	183216 (5.00)	0.00	mg/L	06/17/2024 15:04:57	Yes	163130 ()	
4500S2F W	PS	**70301492001**	Y	250	183291 (5)	15.5	20.3	183216 (4.80)	0.32	mg/L	06/17/2024 15:06:04	Yes	163130 ()	
4500S2F W	PS	**70301493001**	Y	250	183291 (5)	20.3	25.2	183216 (4.90)	0.16	mg/L	06/17/2024 15:07:08	Yes	163130 ()	
4500S2F W	PS	**70301493002**	Y	250	183291 (5)	25.2	30.2	183216 (5.00)	0.00	mg/L	06/17/2024 15:08:13	Yes	163130 ()	
4500S2F W	PS	**70301493003**	Y	250	183291 (5)	30.2	35.2	183216 (5.00)	0.00	mg/L	06/17/2024 15:09:24	Yes	163130 ()	
4500S2F W	PS	**70301297001**	Y	250	183291 (5)	35.2	40.2	183216 (5.00)	0.00	mg/L	06/17/2024 15:10:30	Yes	163130 ()	
4500S2F W	PS	**70301297002**	Y	250	183291 (5)	40.2	45.1	183216 (4.90)	0.16	mg/L	06/17/2024 15:11:34	Yes	163130 ()	
4500S2F W	PS	**70301297004**	Y	250	183291 (5)	3	7.9	183216 (4.90)	0.16	mg/L	06/17/2024 15:12:45	Yes	163130 ()	
4500S2F W	PS	**70301297005**	Y	250	183291 (5)	7.9	12.9	183216 (5.00)	0.00	mg/L	06/17/2024 15:13:50	Yes	163130 ()	
4500S2F W	PS	**70301297006**	Y	250	183291 (5)	12.9	17.8	183216 (4.90)	0.16	mg/L	06/17/2024 15:14:57	Yes	163130 ()	
4500S2F W	PS	**70301297007**	Y	250	183291 (5)	17.8	22.7	183216 (4.90)	0.16	mg/L	06/17/2024 15:16:01	Yes	163130 ()	
4500S2F W	PS	**70301297008**	Y	250	183291 (5)	22.7	27.5	183216 (4.80)	0.32	mg/L	06/17/2024 15:17:06	Yes	163130 ()	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	PS	**70301297009**	Y	250	183291 (5)	27.5	32.5	183216 (5.00)	0.00	mg/L	06/17/2024 15:18:11	Yes	163130 ()	
4500S2F W	PS	**70301297010**	Y	250	183291 (5)	32.5	37.4	183216 (4.90)	0.16	mg/L	06/17/2024 15:19:21	Yes	163130 ()	

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	**1822674**	
4500S2F W	LCS	**1822675**	182594 (1)
4500S2F W	LCSD	**1822701**	182594 (1)
4500S2F W	LCSD	**1822702**	182594 (1)
4500S2F W	LCSD	**1822703**	182594 (1)
4500S2F W	LCSD	**1822704**	182594 (1)
4500S2F W	RQS	**70301297003**	
4500S2F W	DUP	**1822678**	
4500S2F W	PS	**70301492001**	
4500S2F W	PS	**70301493001**	
4500S2F W	PS	**70301493002**	
4500S2F W	PS	**70301493003**	
4500S2F W	PS	**70301297001**	
4500S2F W	PS	**70301297002**	
4500S2F W	PS	**70301297004**	
4500S2F W	PS	**70301297005**	
4500S2F W	PS	**70301297006**	
4500S2F W	PS	**70301297007**	
4500S2F W	PS	**70301297008**	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	PS	**70301297009**	
4500S2F W	PS	**70301297010**	

Standard Notes:

182594: Wet Sulfide LCS/ Second Source 5mL

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50376107

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 26, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2433035
Pace Project No.: 50376107

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2433035
Pace Project No.: 50376107

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376107001	**MW-8S**	Water	06/12/24 13:55	06/18/24 10:00
50376107002	**MW-8D**	Water	06/12/24 13:56	06/18/24 10:00
50376107003	**MW-1SR**	Water	06/12/24 08:30	06/18/24 10:00
50376107004	**MW-1DR2**	Water	06/12/24 08:34	06/18/24 10:00
50376107005	**MP-1**	Water	06/12/24 10:30	06/18/24 10:00
50376107006	**MP-1D**	Water	06/12/24 10:50	06/18/24 10:00
50376107007	**PZ-6**	Water	06/12/24 12:25	06/18/24 10:00
50376107008	**MW-6D**	Water	06/12/24 12:38	06/18/24 10:00
50376107009	**EB_06122024**	Water	06/12/24 09:40	06/18/24 10:00
50376107010	**DUP_06122024**	Water	06/12/24 12:00	06/18/24 10:00

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SAMPLE ANALYTE COUNT

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376107001	**MW-8S**	EPA 9056	ADM	1
50376107002	**MW-8D**	EPA 9056	ADM	1
50376107003	**MW-1SR**	EPA 9056	ADM	1
50376107004	**MW-1DR2**	EPA 9056	ADM	1
50376107005	**MP-1**	EPA 9056	ADM	1
50376107006	**MP-1D**	EPA 9056	ADM	1
50376107007	**PZ-6**	EPA 9056	ADM	1
50376107008	**MW-6D**	EPA 9056	ADM	1
50376107009	**EB_06122024**	EPA 9056	ADM	1
50376107010	**DUP_06122024**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-8S **Lab ID: 50376107001** Collected: 06/12/24 13:55 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-8D **Lab ID: 50376107002** Collected: 06/12/24 13:56 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 18:56		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-1SR **Lab ID: 50376107003** Collected: 06/12/24 08:30 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 19:17		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-1DR2 **Lab ID: 50376107004** Collected: 06/12/24 08:34 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:07		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MP-1 **Lab ID: 50376107005** Collected: 06/12/24 10:30 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:29		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MP-1D **Lab ID: 50376107006** Collected: 06/12/24 10:50 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 21:50		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: PZ-6 **Lab ID: 50376107007** Collected: 06/12/24 12:25 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:12		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: MW-6D **Lab ID: 50376107008** Collected: 06/12/24 12:38 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:34		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: EB_06122024 **Lab ID: 50376107009** Collected: 06/12/24 09:40 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 22:56		

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ANALYTICAL RESULTS

Project: L2433035
Pace Project No.: 50376107

Sample: DUP_06122024 **Lab ID: 50376107010** Collected: 06/12/24 12:00 Received: 06/18/24 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		06/22/24 23:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L2433035
Pace Project No.: 50376107

QC Batch: 796576 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50376107001, 50376107002, 50376107003, 50376107004, 50376107005, 50376107006, 50376107007, 50376107008, 50376107009, 50376107010

METHOD BLANK: 3644656 Matrix: Water
Associated Lab Samples: 50376107001, 50376107002, 50376107003, 50376107004, 50376107005, 50376107006, 50376107007, 50376107008, 50376107009, 50376107010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/22/24 13:14	

LABORATORY CONTROL SAMPLE: 3644657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3644658 3644659

Parameter	Units	50376107003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	95	94	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2433035
Pace Project No.: 50376107

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2433035
Pace Project No.: 50376107

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376107001	**MW-8S**	EPA 9056	796576		
50376107002	**MW-8D**	EPA 9056	796576		
50376107003	**MW-1SR**	EPA 9056	796576		
50376107004	**MW-1DR2**	EPA 9056	796576		
50376107005	**MP-1**	EPA 9056	796576		
50376107006	**MP-1D**	EPA 9056	796576		
50376107007	**PZ-6**	EPA 9056	796576		
50376107008	**MW-6D**	EPA 9056	796576		
50376107009	**EB_06122024**	EPA 9056	796576		
50376107010	**DUP_06122024**	EPA 9056	796576		

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WO# : 50376107

50376107

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433035

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com Report to MDL/needs L4 and EDD 265
NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-8S	06-12-24 13:55	WATER	Iodide	
	MW-8D	06-12-24 13:56	WATER	Iodide	
	MW-1SR	06-12-24 08:30	WATER	Iodide	MS;MSD
	MW-1DR2	06-12-24 08:34	WATER	Iodide	
	MP-1	06-12-24 10:30	WATER	Iodide	
	MP-1D	06-12-24 10:50	WATER	Iodide	
	PZ-6	06-12-24 12:25	WATER	Iodide	
	MW-6D	06-12-24 12:38	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/17/24	UPS	
	UPS	6/18/24 1000	Marcus Weinstein	6/18/24 1000
Form No: AL_subcoc				

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2433035

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2433035

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com Report to MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	EB_06122024	06-12-24 09:40	WATER	Iodide	
	DUP_06122024	06-12-24 12:00	WATER	Iodide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/17/24	VPS	
	VPS	6/18/24 1000	Marcus Winkler	6/18/24 1000
Form No: AL_subcoc				

F-IN-Q-290-rev.27, 13Jun2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/18/24 1155 -MDW

1. **Courier:** ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I
4. **Cooler Temperature(s):** (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

1.1/1.1			

5. **Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																			2											SW
2																			4											
3																			6											
4																			2											
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																		2											SL				
2																		1											SL				
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

MW-8S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 18:34

SAMPLE NO.

MW-8D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 18:56

SAMPLE NO.

MW-1SR

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 19:17

SAMPLE NO.

MW-1DR2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 21:07

SAMPLE NO.

MP-1

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035
Lab Sample ID: 50376107005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 21:29

SAMPLE NO.

MP-1D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 21:50

SAMPLE NO.

PZ-6

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035
Lab Sample ID: 50376107007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 22:12

SAMPLE NO.

MW-6D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 22:34

SAMPLE NO.

EB_06122024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 22:56

SAMPLE NO.

DUP_06122024

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Lab Sample ID: 50376107010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/22/2024 23:18

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 385241

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification						
	06/21/2024 19:00				06/22/2024 12:31			06/22/2024 19:39			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	4.7	94.1	90-110	1.0	1.1	106.3	1.0	0.99	99.1	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 385241

Concentration Units: mg/L Instrument ID: 50IC07

	Continuing Calibration Verification			
	06/23/2024 00:02			Control Limit
Analyte	True	Found	%R	
Iodide	1.0	1.0	101.9	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract : L2433035

Method Blank Matrix: Water Instrument ID: 50IC07

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	06/21/2024 19:21	C	06/22/2024 12:52	C	06/22/2024 20:01	C	06/23/2024 00:24	C	3644656	C
Iodide	0.091	U	0.091	U	0.091	U	0.091	U	ND	U

SAMPLE NO.

3644658MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Matrix: Water Basis: Wet Parent Sample ID: MW-1SR

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	95

SAMPLE NO.

3644659MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Matrix: Water Basis: Wet Parent Sample ID: MW-1SR

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3644659MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.7	4.7	1

SAMPLE NO.

3644657LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	4.7	94	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Preparation Method: EPA 9056 Batch: GCSV 56520

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3644656	3644656BLANK	06/22/2024	10	10
3644657	3644657LCS	06/22/2024	10	10
3644658	3644658MS	06/22/2024	10	10
3644659	3644659MSD	06/22/2024	10	10
50376107001	MW-8S	06/22/2024	10	10
50376107002	MW-8D	06/22/2024	10	10
50376107003	MW-1SR	06/22/2024	10	10
50376107004	MW-1DR2	06/22/2024	10	10
50376107005	MP-1	06/22/2024	10	10
50376107006	MP-1D	06/22/2024	10	10
50376107007	PZ-6	06/22/2024	10	10
50376107008	MW-6D	06/22/2024	10	10
50376107009	EB_06122024	06/22/2024	10	10
50376107010	DUP_06122024	06/22/2024	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376107 Contract: L2433035

Instrument ID: 50IC07 Analysis Method: EPA 9056

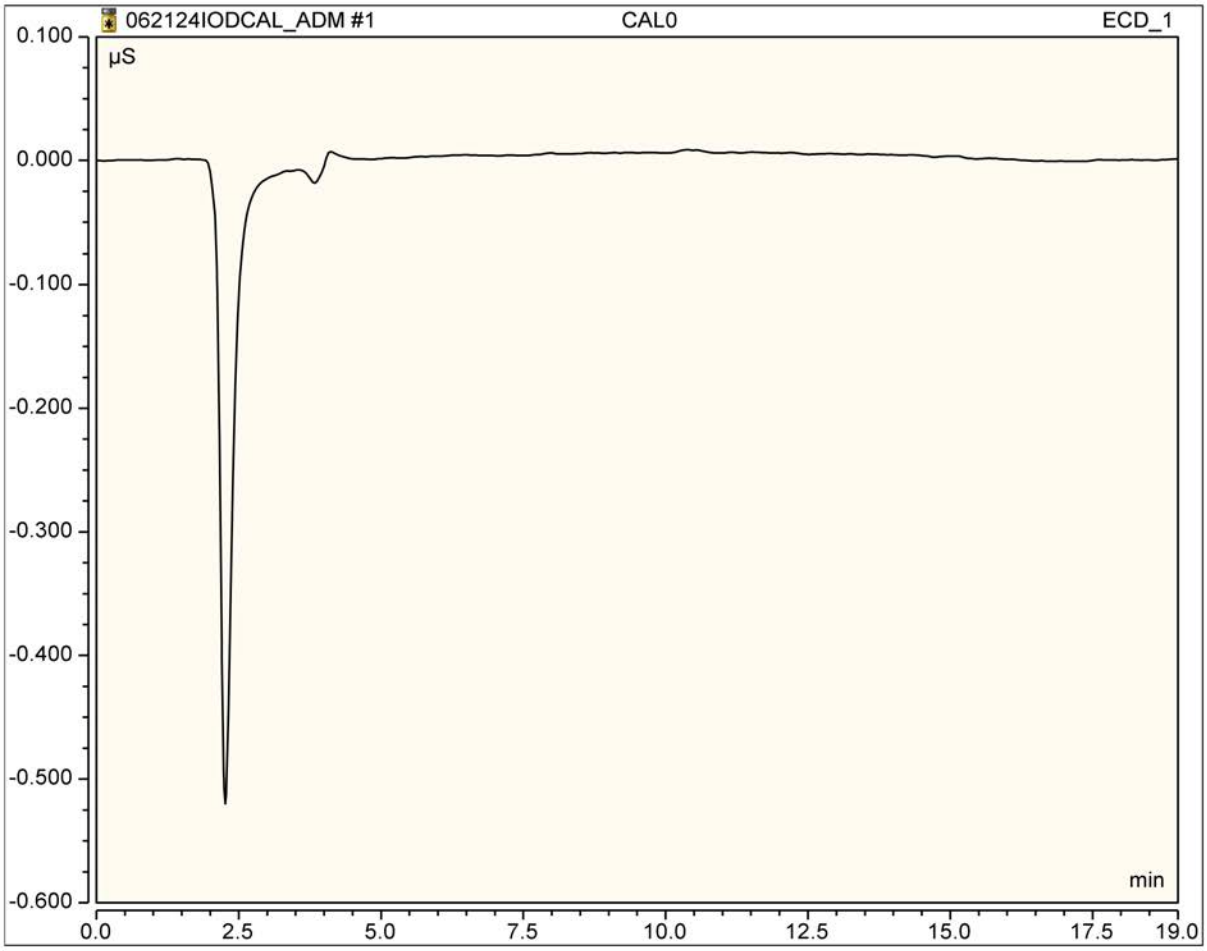
Start Date: 06/21/2024 16:49 End Date: 06/23/2024 00:24

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25201351CAL0	25201351CAL0	1	06/21/2024	16:49	X
25201352CAL1	25201352CAL1	1	06/21/2024	17:10	X
25201353CAL2	25201353CAL2	1	06/21/2024	17:32	X
25201354CAL3	25201354CAL3	1	06/21/2024	17:54	X
25201355CAL4	25201355CAL4	1	06/21/2024	18:16	X
25201356CAL5	25201356CAL5	1	06/21/2024	18:38	X
25201357ICV	25201357ICV	1	06/21/2024	19:00	X
25201358ICB	25201358ICB	1	06/21/2024	19:21	X
25209567CCV	25209567CCV	1	06/22/2024	12:31	X
25209568CCB	25209568CCB	1	06/22/2024	12:52	X
3644656BLANK	3644656	1	06/22/2024	13:14	X
3644657LCS	3644657	1	06/22/2024	13:36	X
MW-8S	50376107001	1	06/22/2024	18:34	X
MW-8D	50376107002	1	06/22/2024	18:56	X
MW-1SR	50376107003	1	06/22/2024	19:17	X
25209569CCV	25209569CCV	1	06/22/2024	19:39	X
25209570CCB	25209570CCB	1	06/22/2024	20:01	X
3644658MS	3644658	1	06/22/2024	20:23	X
3644659MSD	3644659	1	06/22/2024	20:45	X
MW-1DR2	50376107004	1	06/22/2024	21:07	X
MP-1	50376107005	1	06/22/2024	21:29	X
MP-1D	50376107006	1	06/22/2024	21:50	X
PZ-6	50376107007	1	06/22/2024	22:12	X
MW-6D	50376107008	1	06/22/2024	22:34	X
EB_06122024	50376107009	1	06/22/2024	22:56	X
DUP_06122024	50376107010	1	06/22/2024	23:18	X
25209571CCV	25209571CCV	1	06/23/2024	00:02	X
25209572CCB	25209572CCB	1	06/23/2024	00:24	X

CAL0
371408

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 16:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

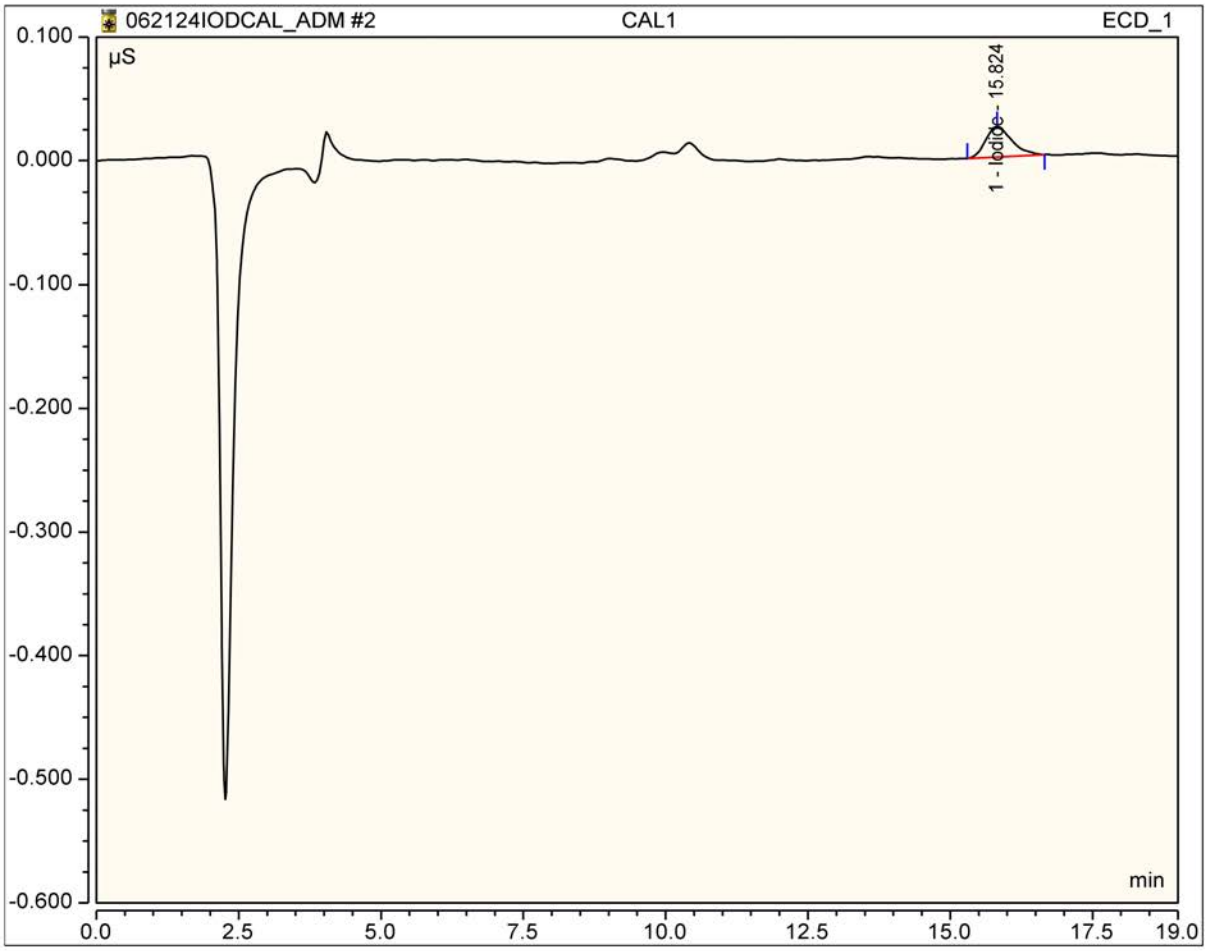
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
371407

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

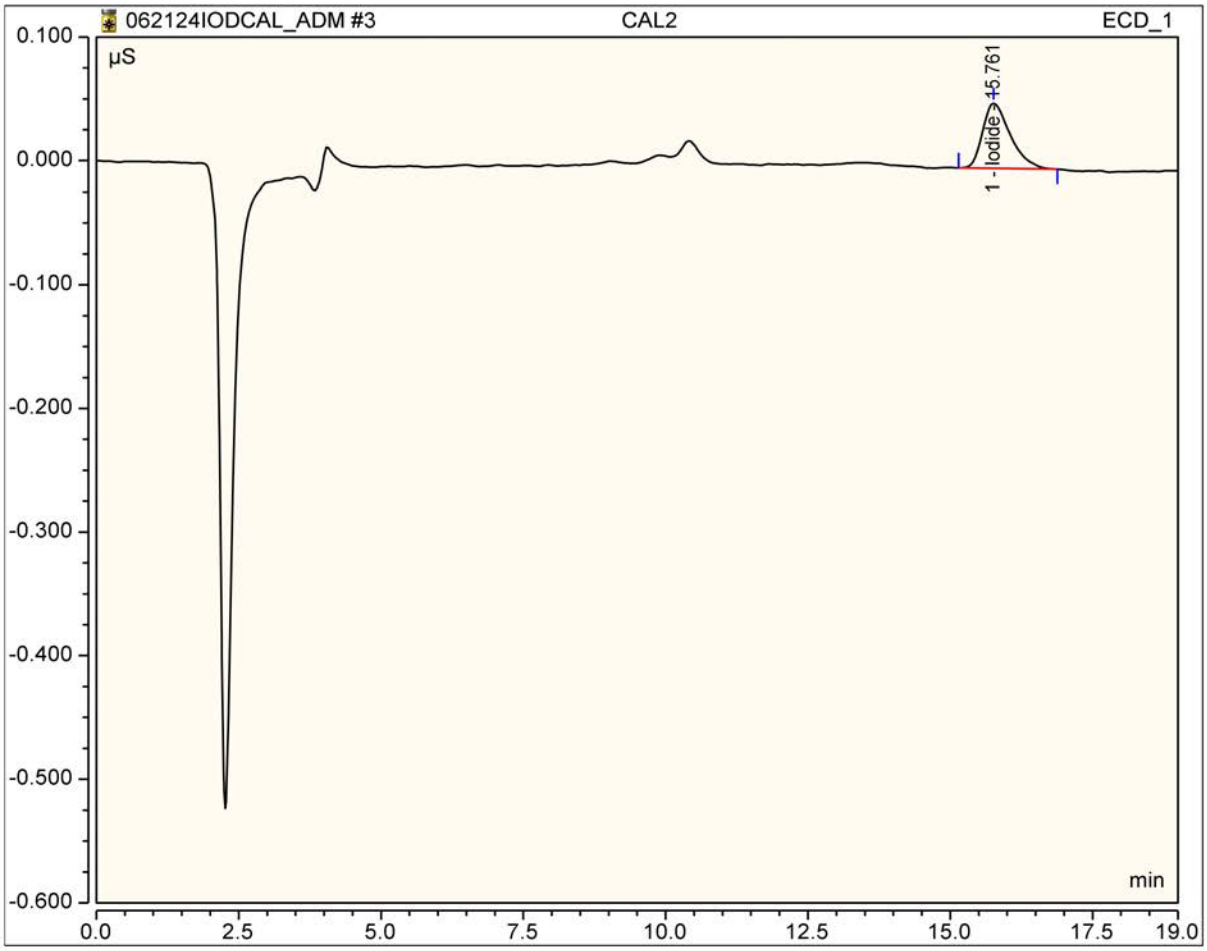
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.82	**Iodide**	0.4908	0.013	0.025	BMB



CAL2
371406

Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

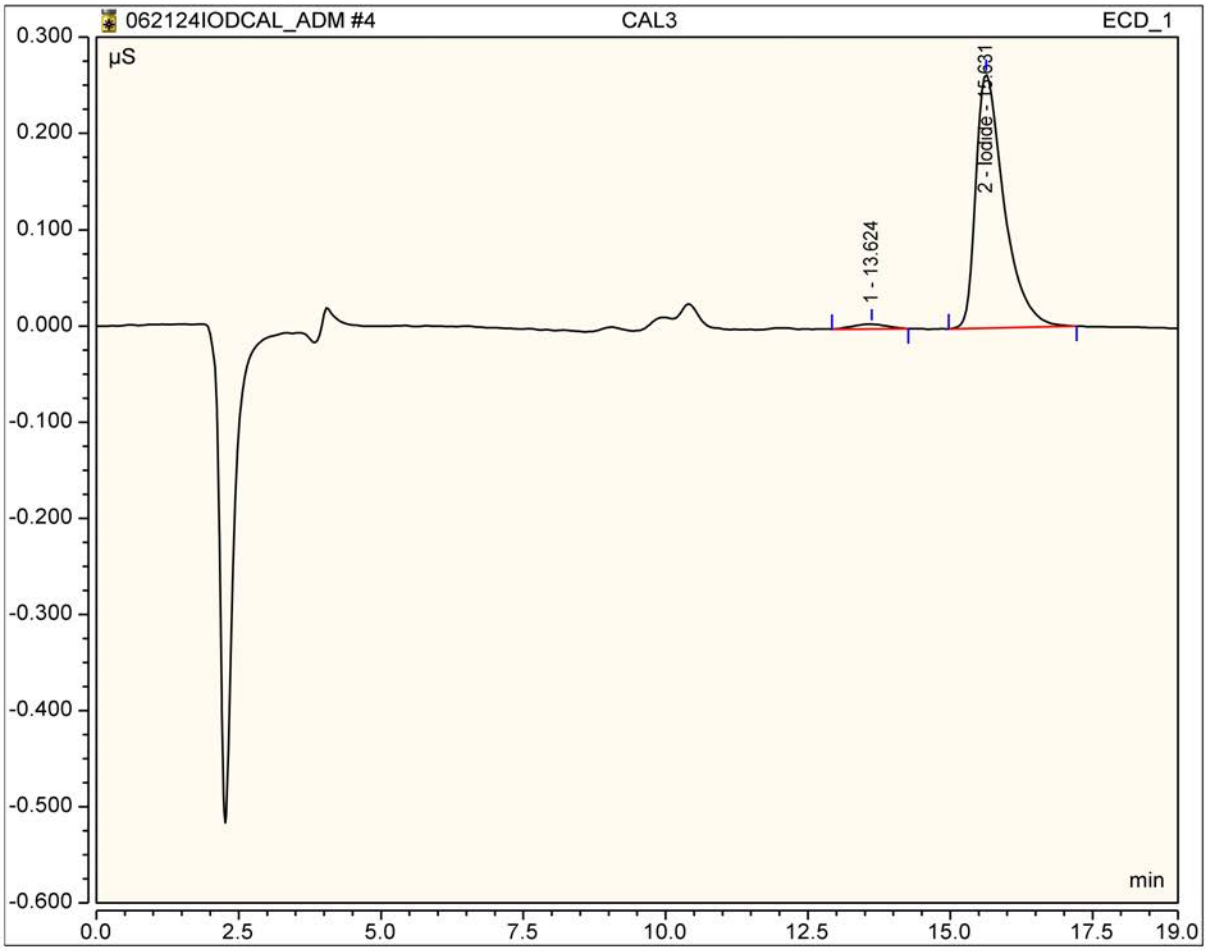
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0311	0.030	0.053	BMB



CAL3
371405

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 17:54**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

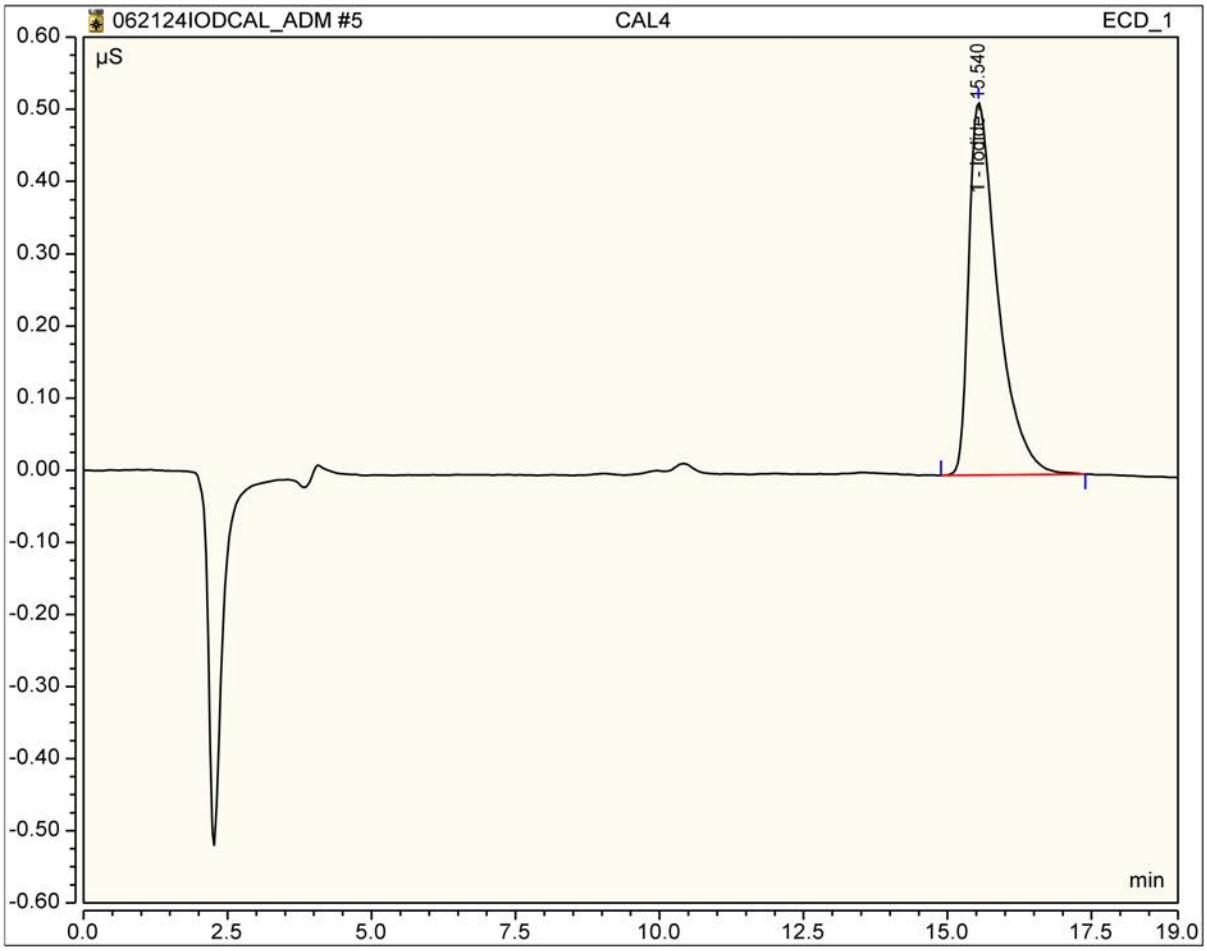
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.63	**Iodide**	4.9874	0.151	0.263	BMB



CAL4
371404

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

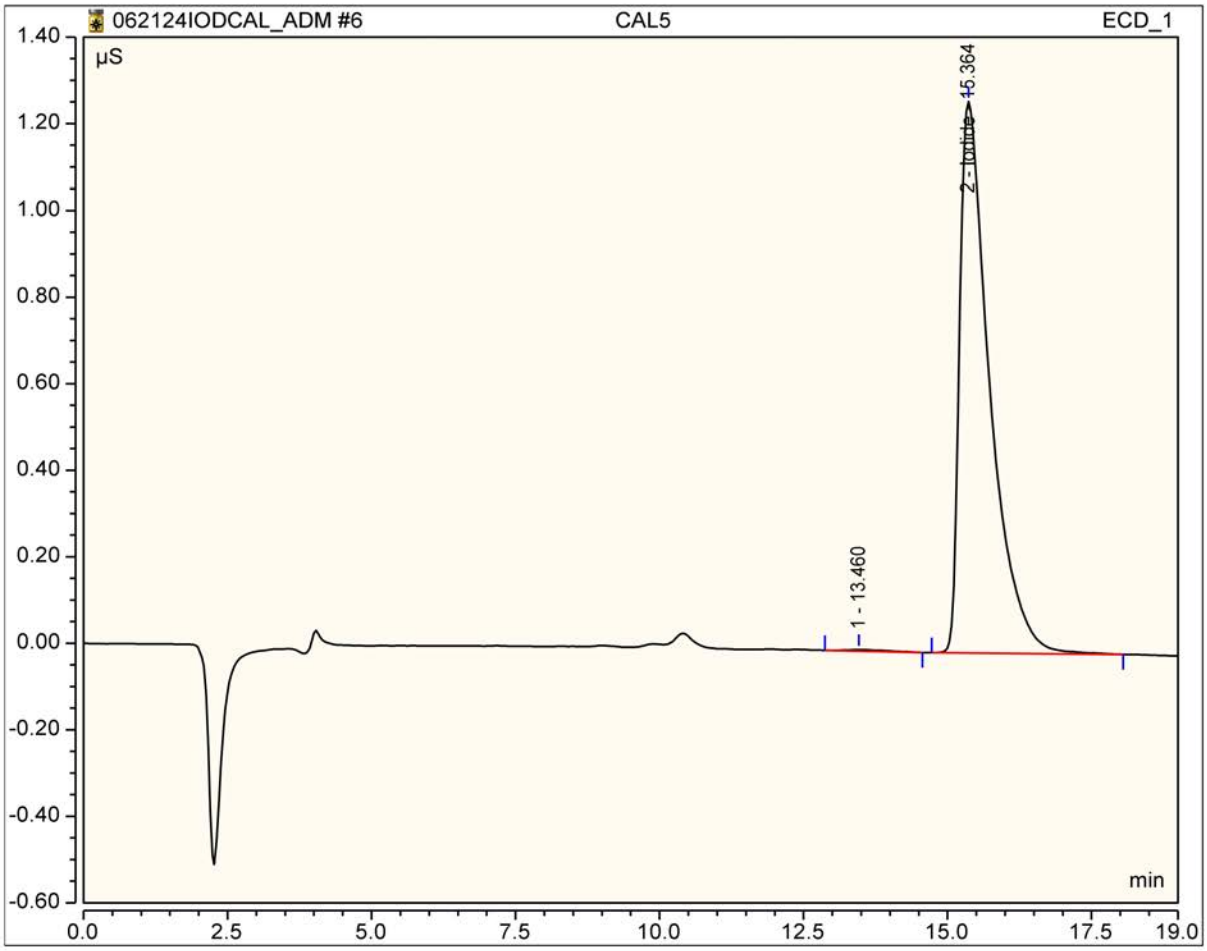
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.54	**Iodide**	9.8380	0.301	0.516	BMB



CAL5
371403

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 18:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

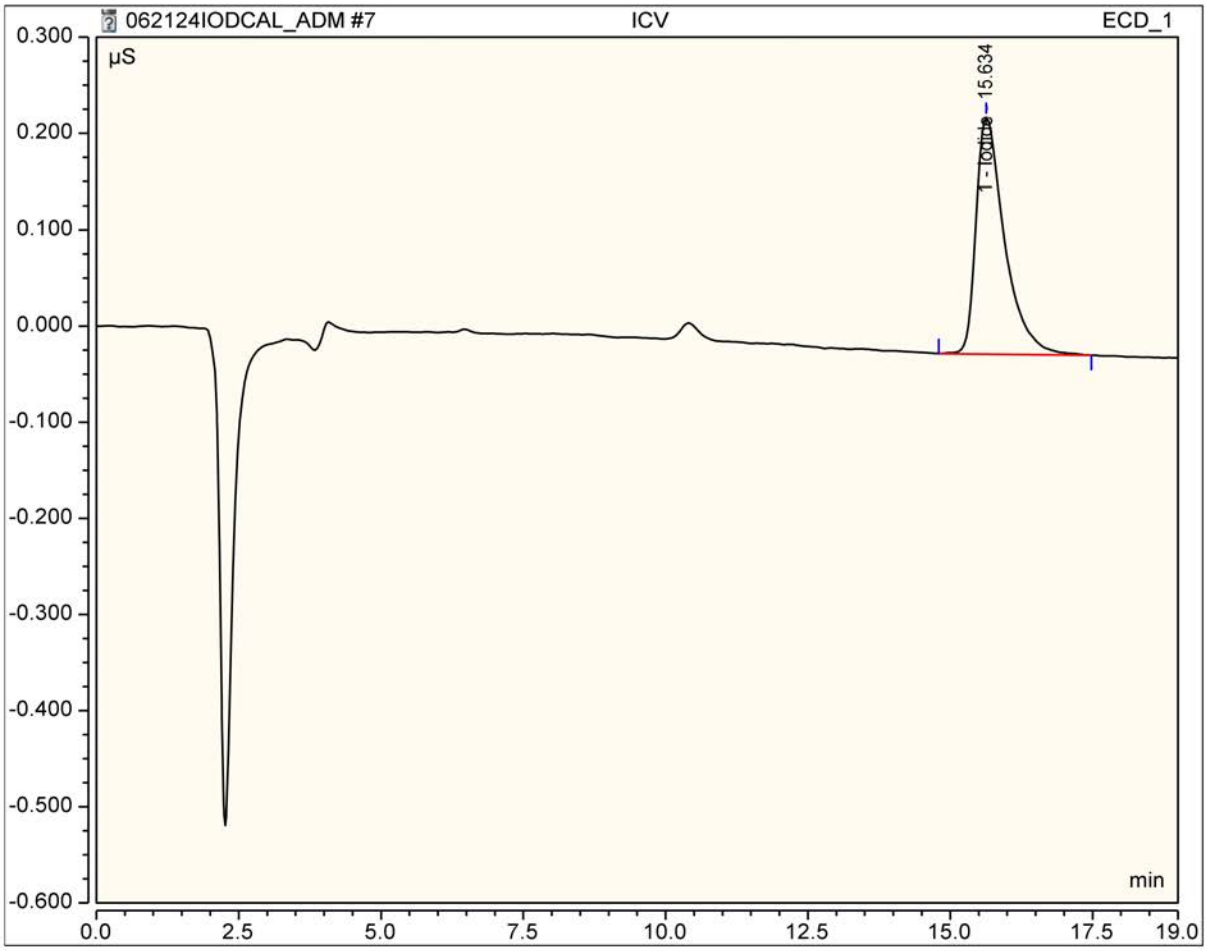
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.36	**Iodide**	25.1528	0.772	1.273	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

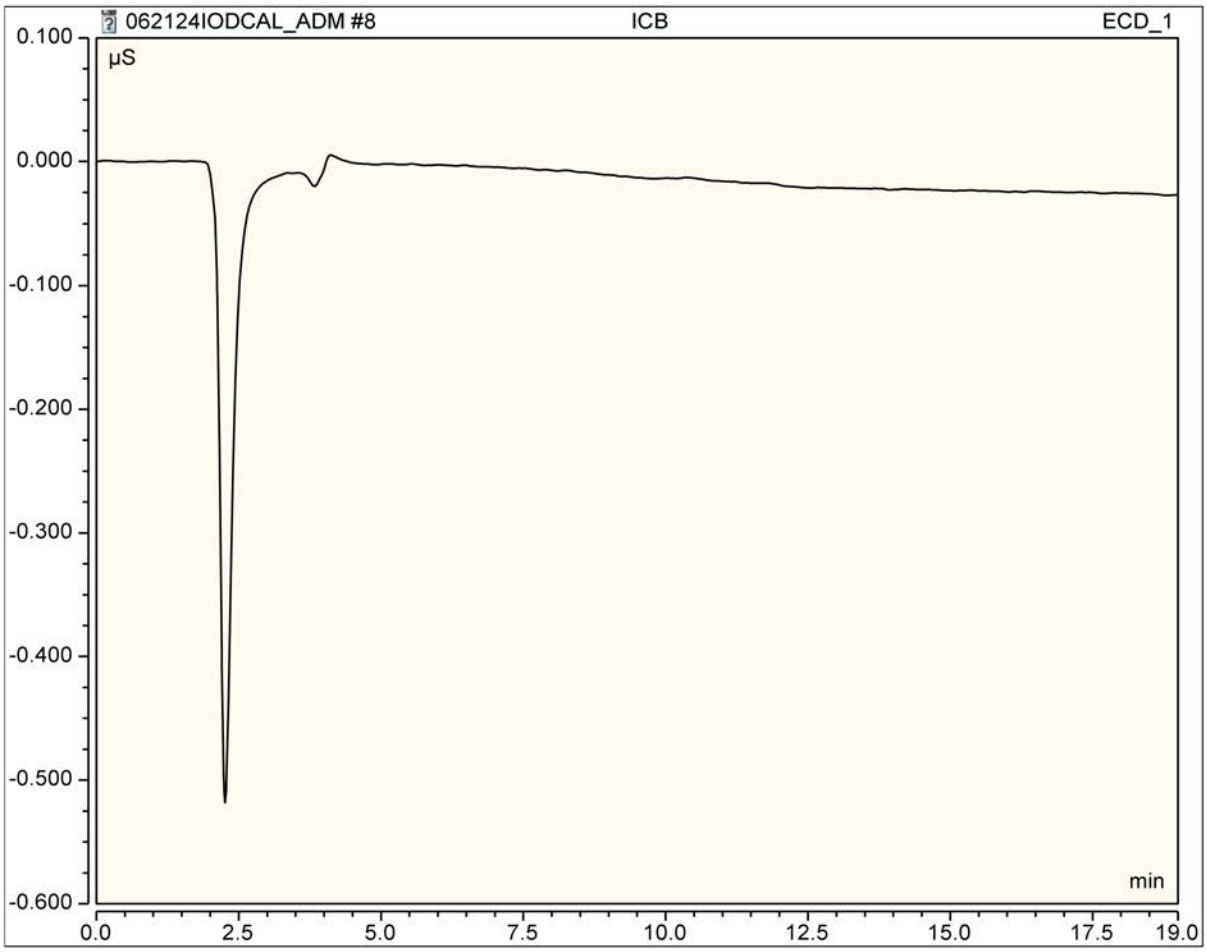
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7040	0.143	0.246	BMB



ICB
376211

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

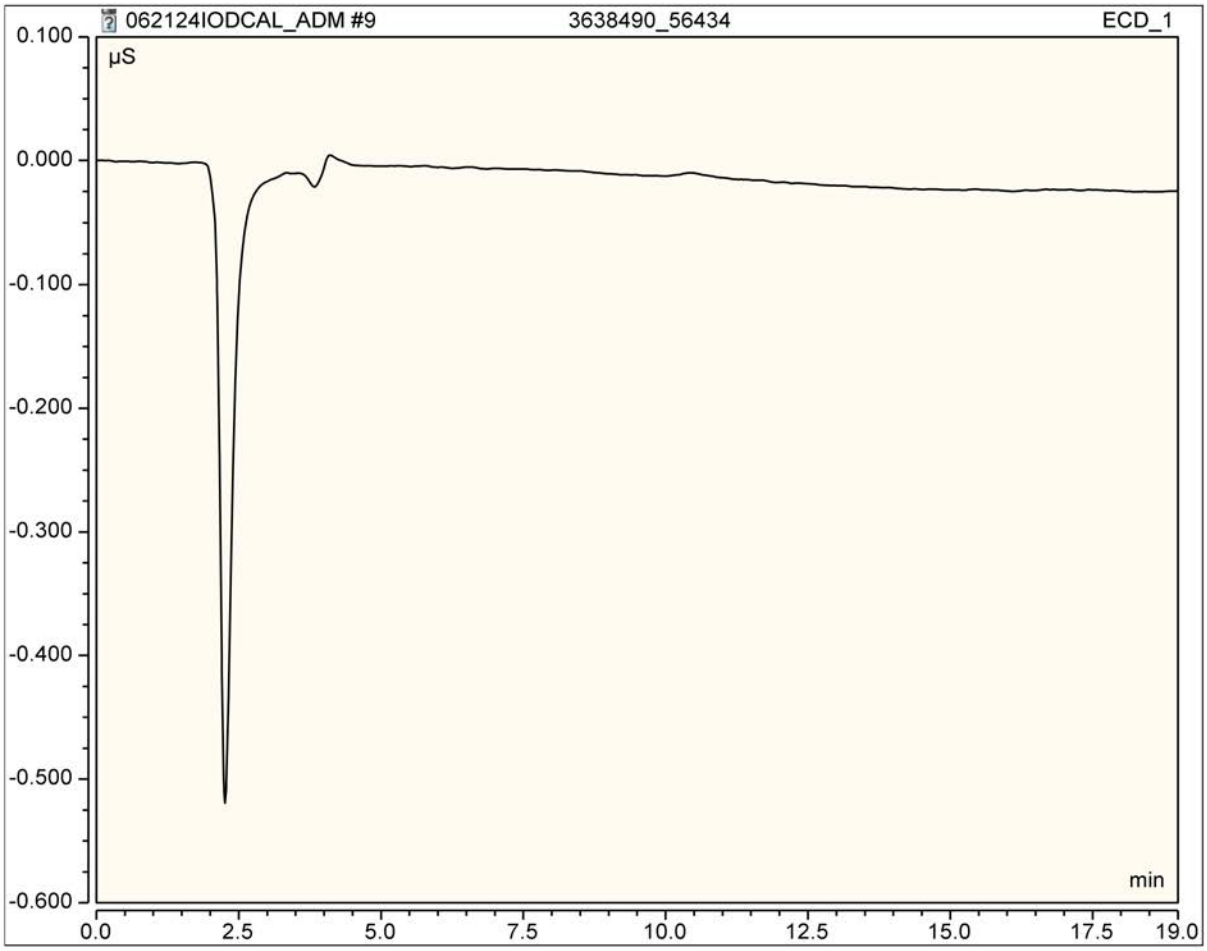
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638490_56434
340111

Sample Name:	**3638490_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 19:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

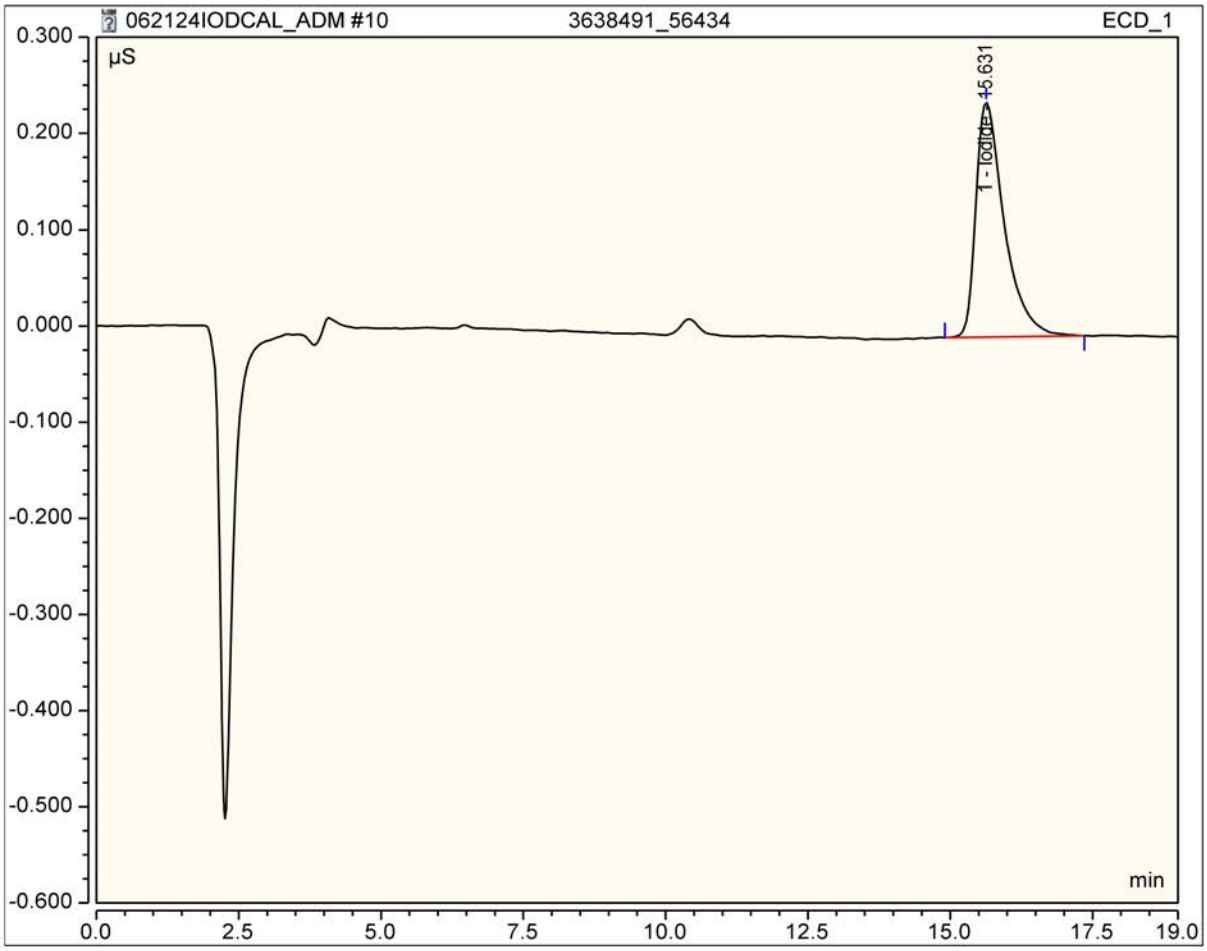
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638491_56434
377680

Sample Name:	**3638491_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

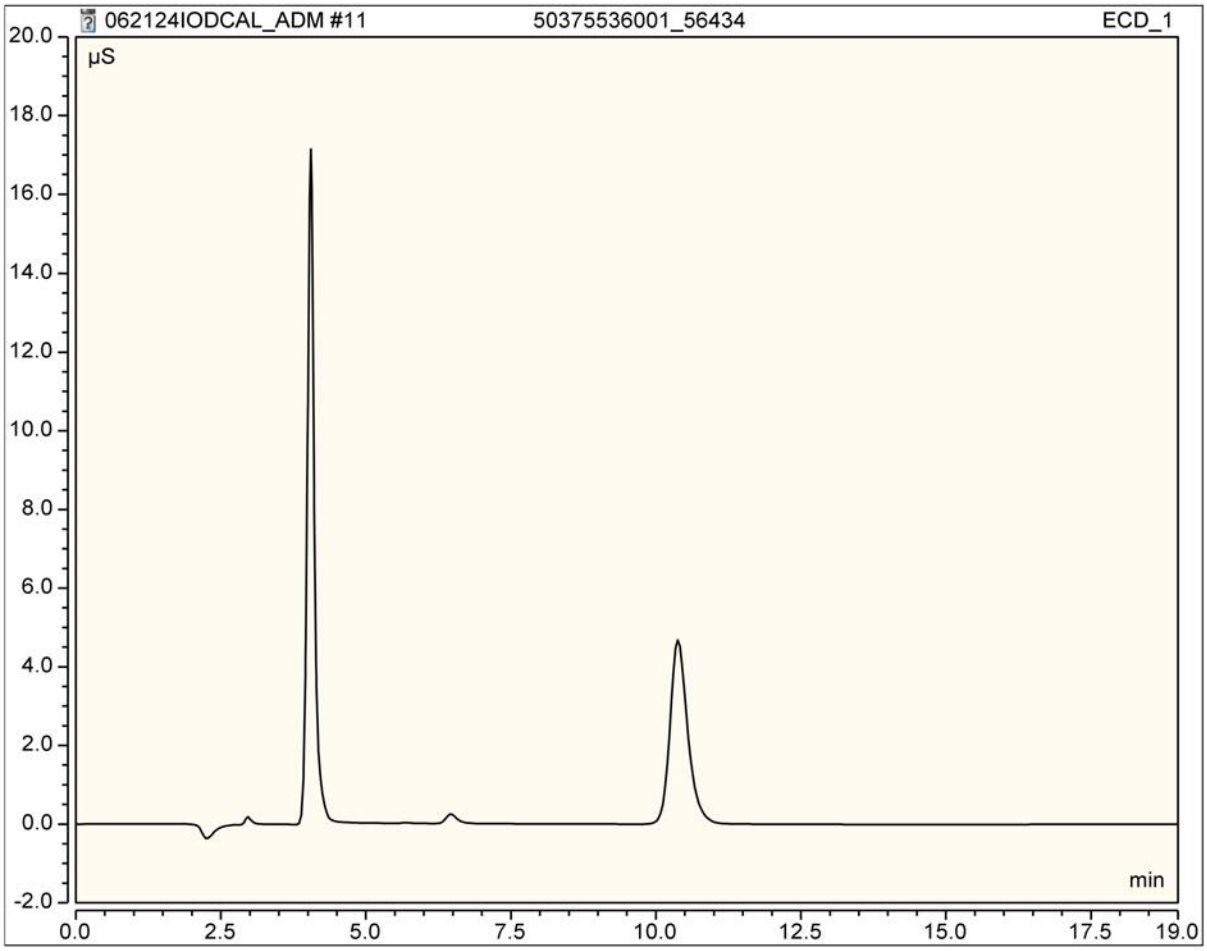
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6277	0.140	0.243	BMB



50375536001_56434

Sample Name:	**50375536001_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

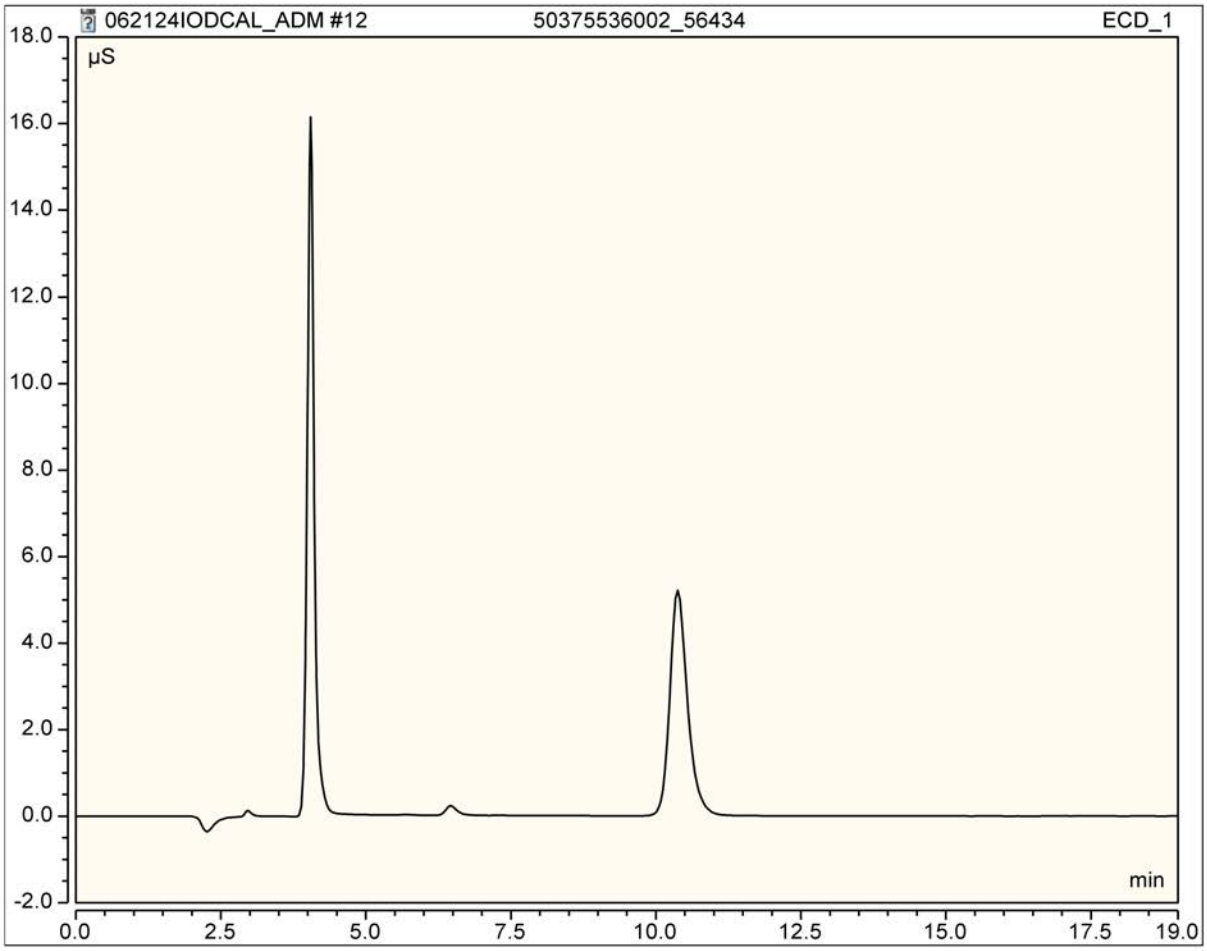
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536002_56434

Sample Name:	**50375536002_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 20:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

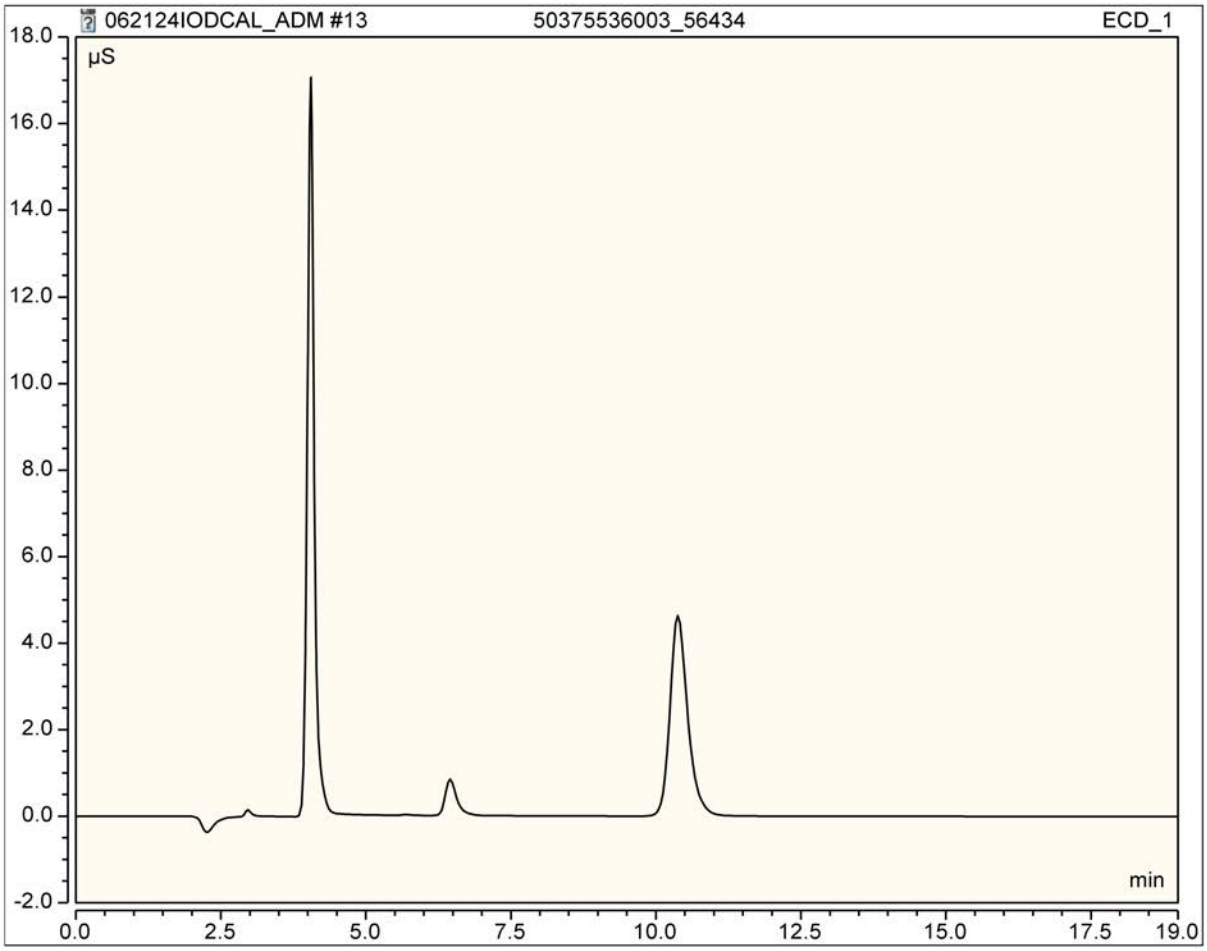
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536003_56434

Sample Name:	**50375536003_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

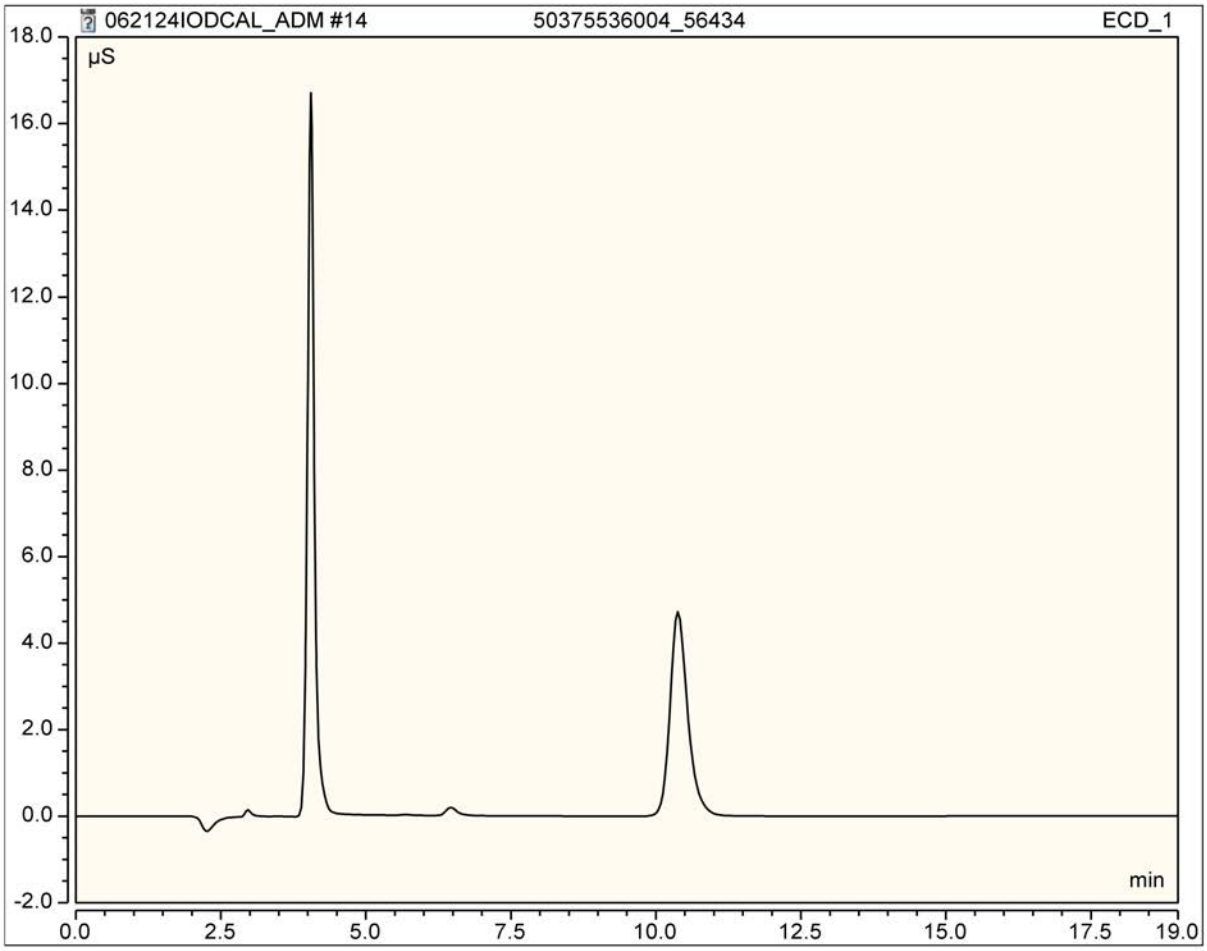
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536004_56434

Sample Name:	**50375536004_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

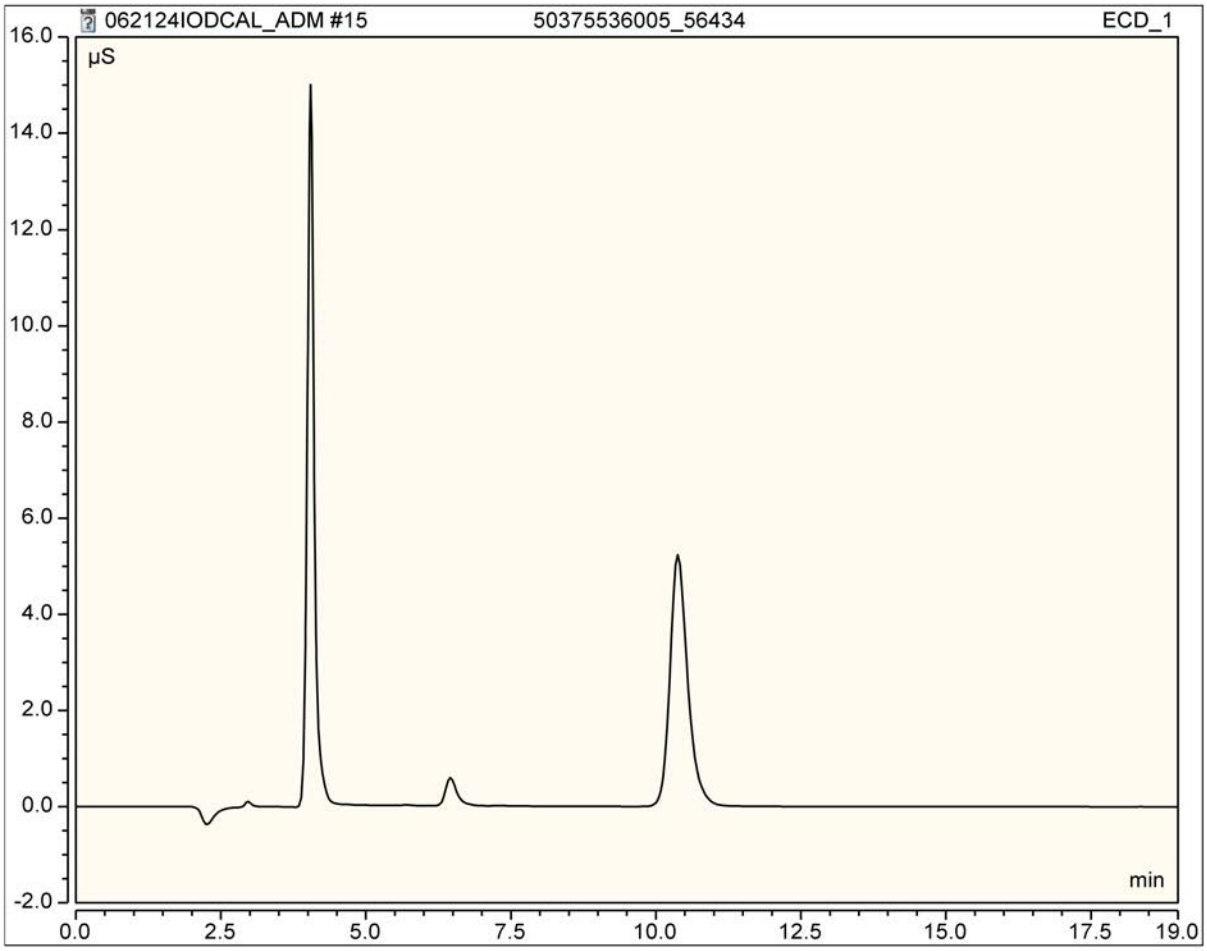
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536005_56434

Sample Name:	**50375536005_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 21:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

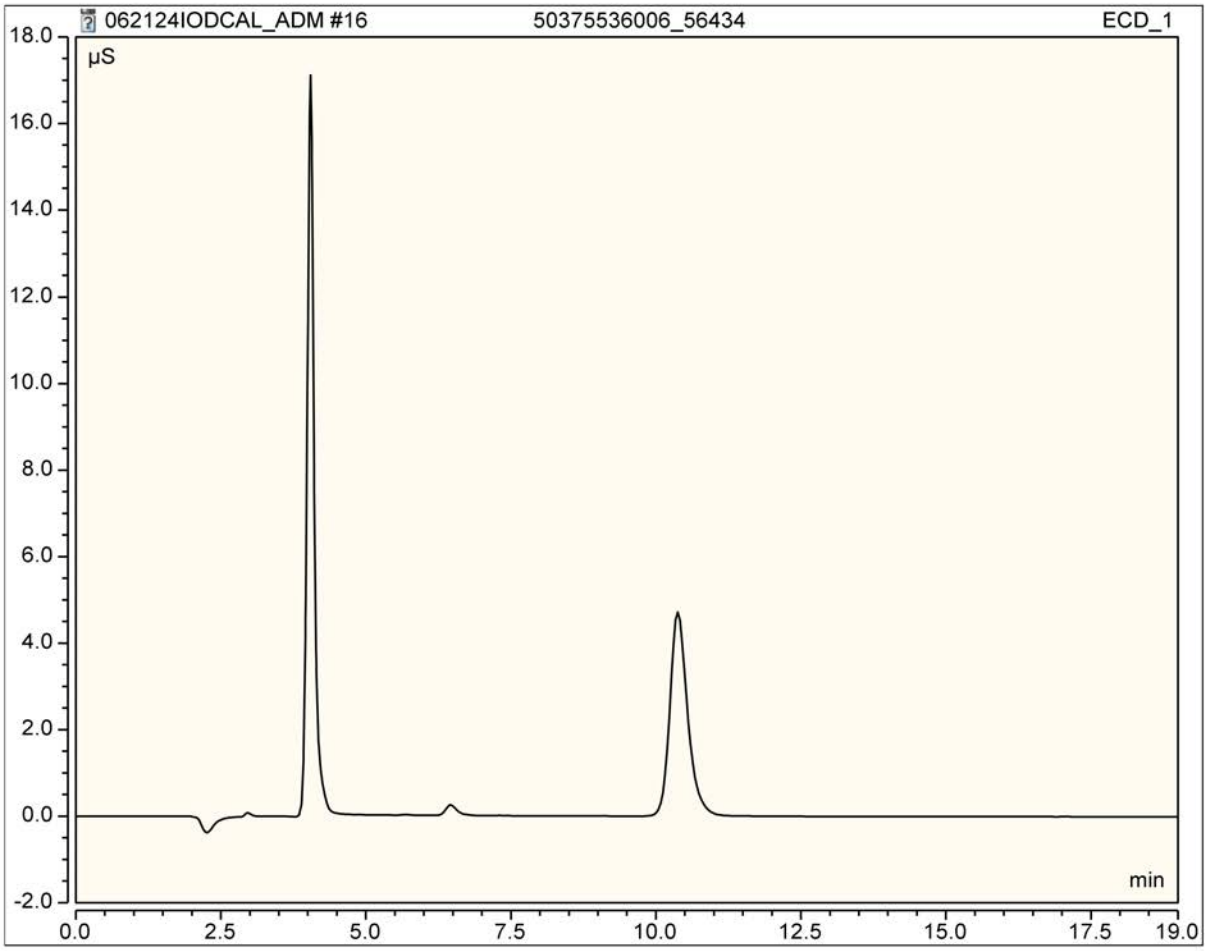
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536006_56434

Sample Name:	**50375536006_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

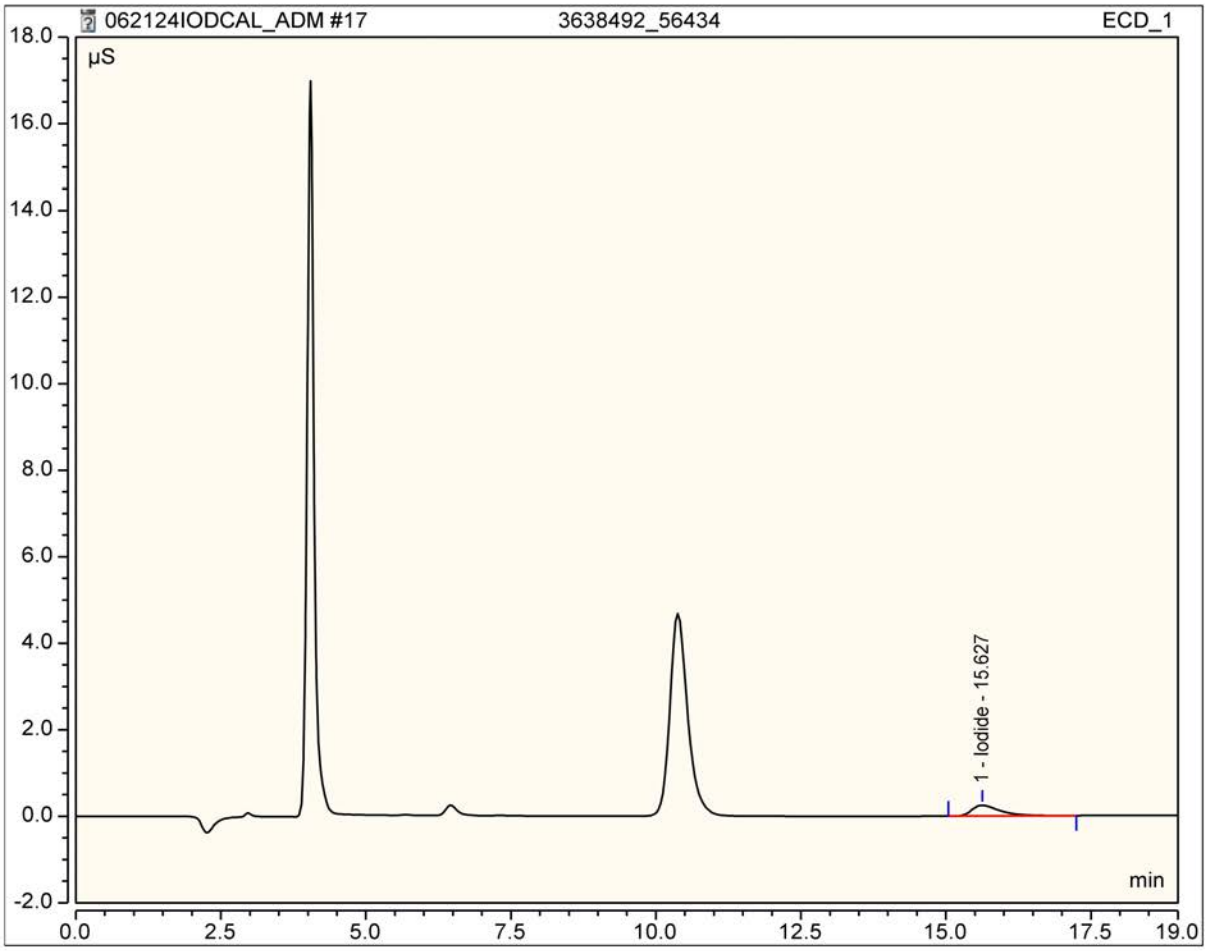
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3638492_56434
377680

Sample Name:	**3638492_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 22:38**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

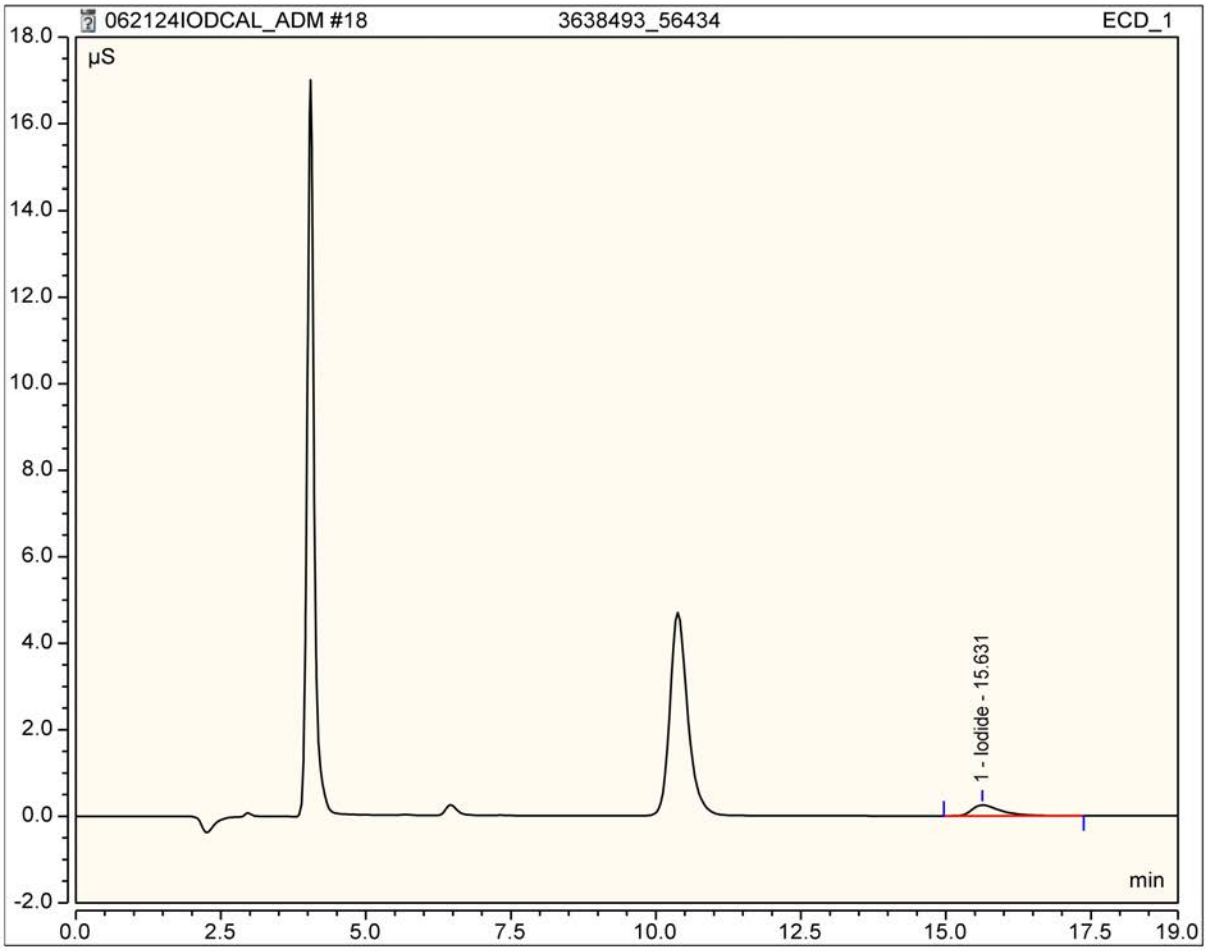
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.6042	0.140	0.247	BMB



3638493_56434
377680

Sample Name:	**3638493_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

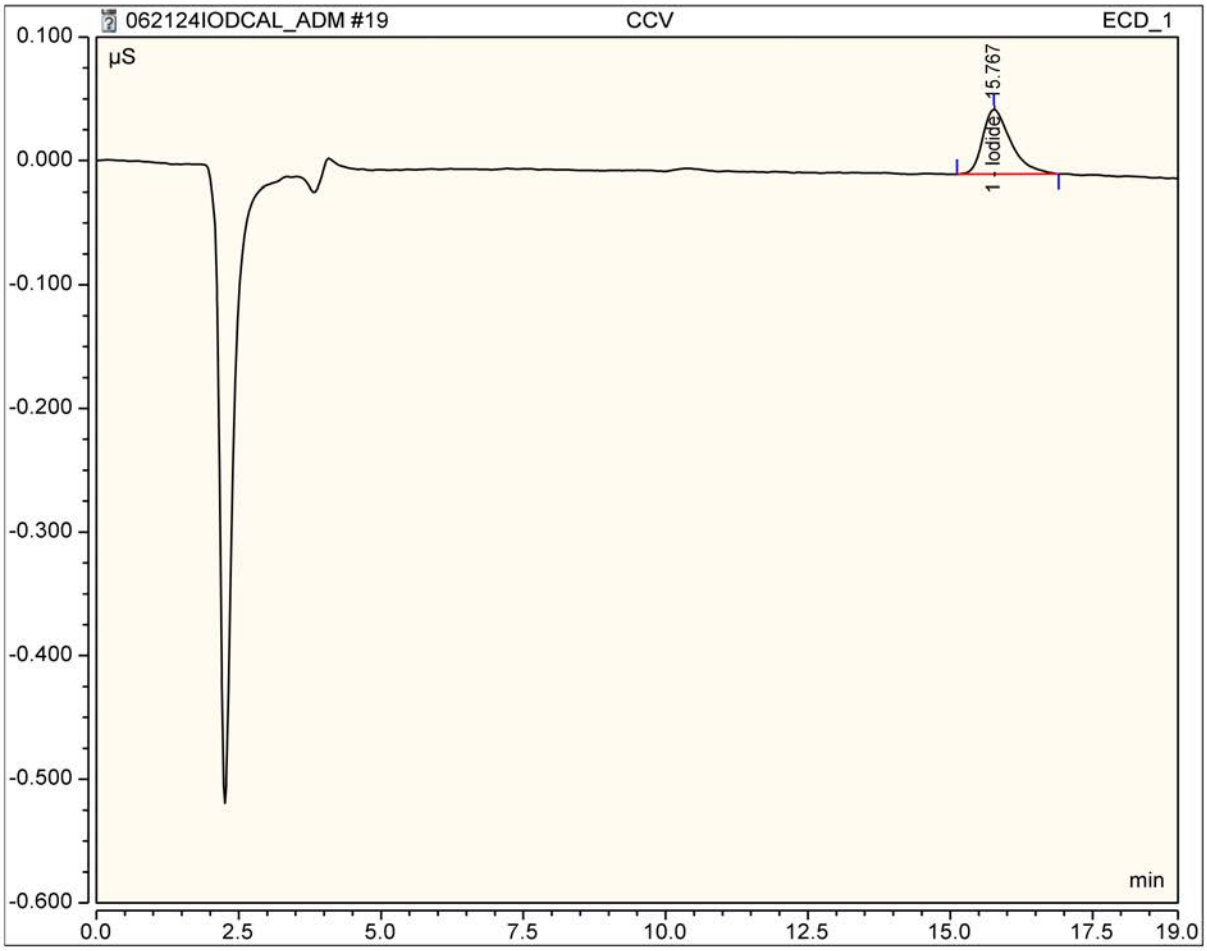
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.63	**Iodide**	4.7797	0.145	0.250	BMB



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:22**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

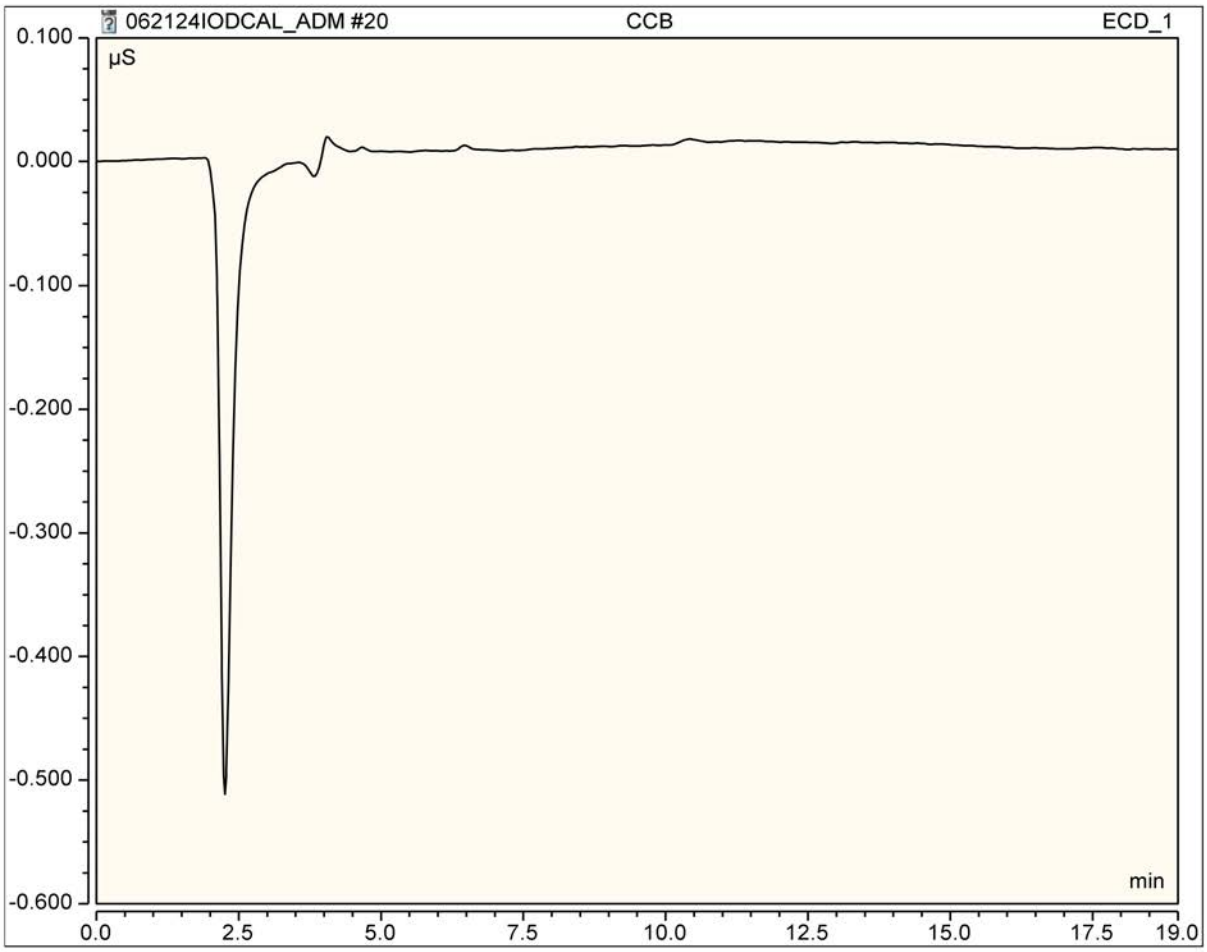
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.77	**Iodide**	1.0473	0.030	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/21/2024 23:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

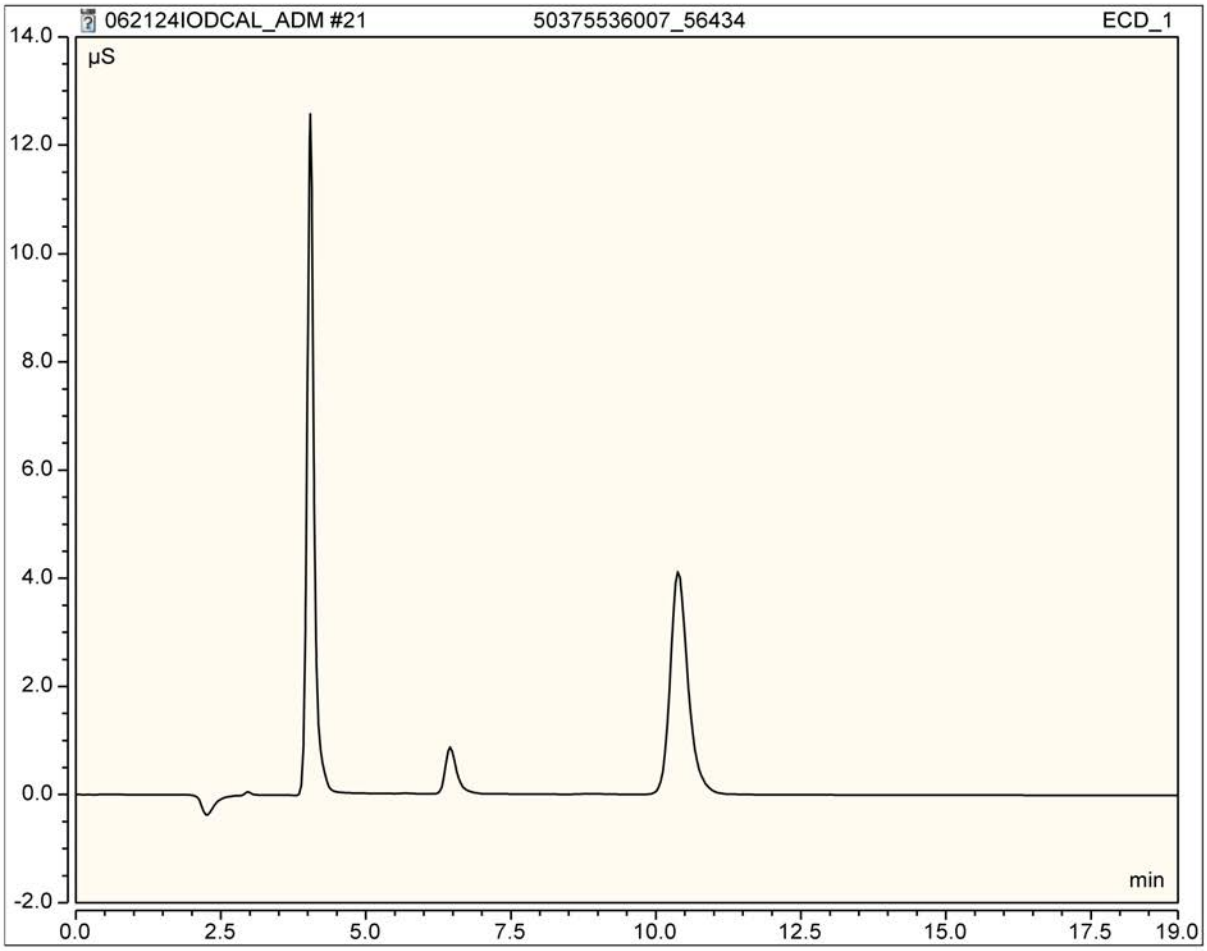
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536007_56434

Sample Name:	**50375536007_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

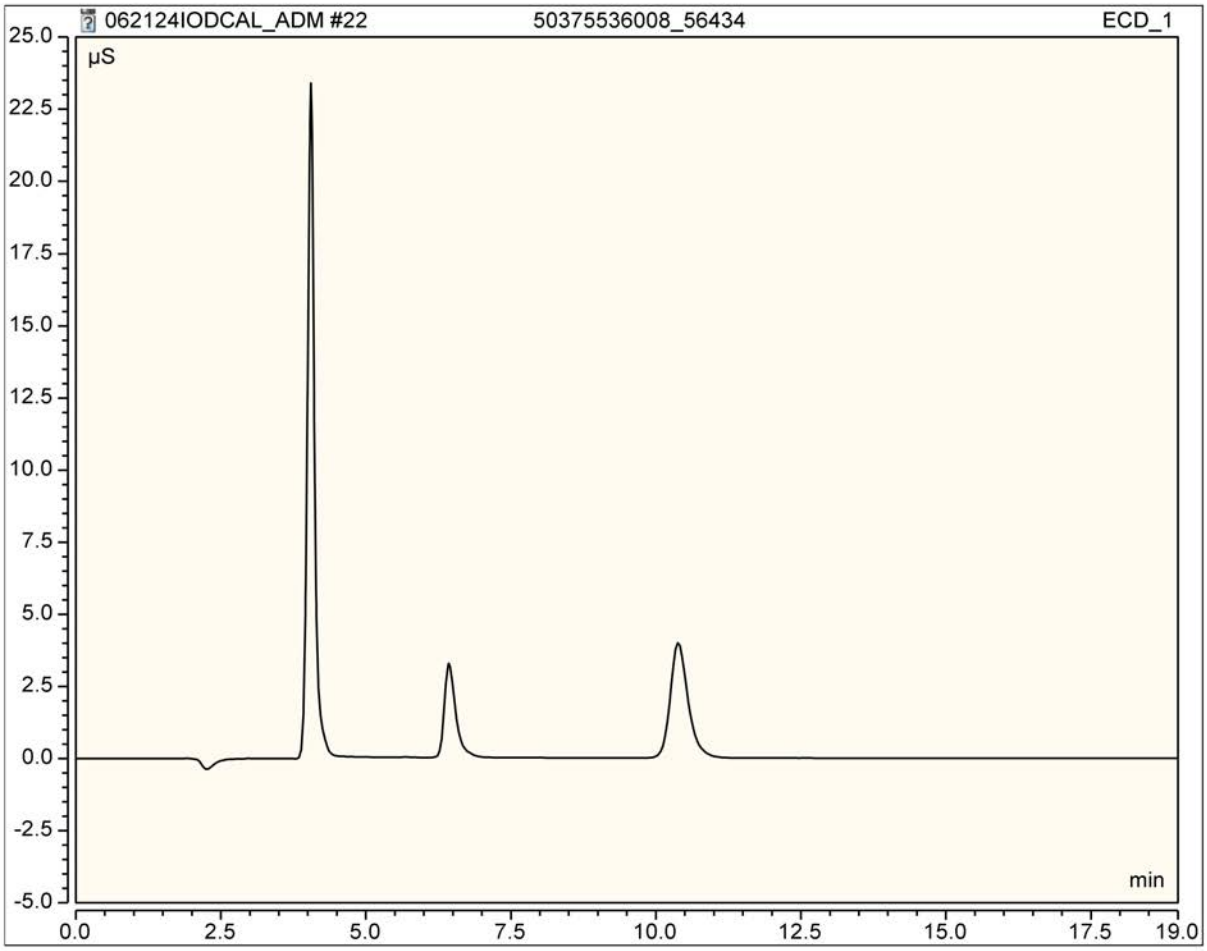
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536008_56434

Sample Name:	**50375536008_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

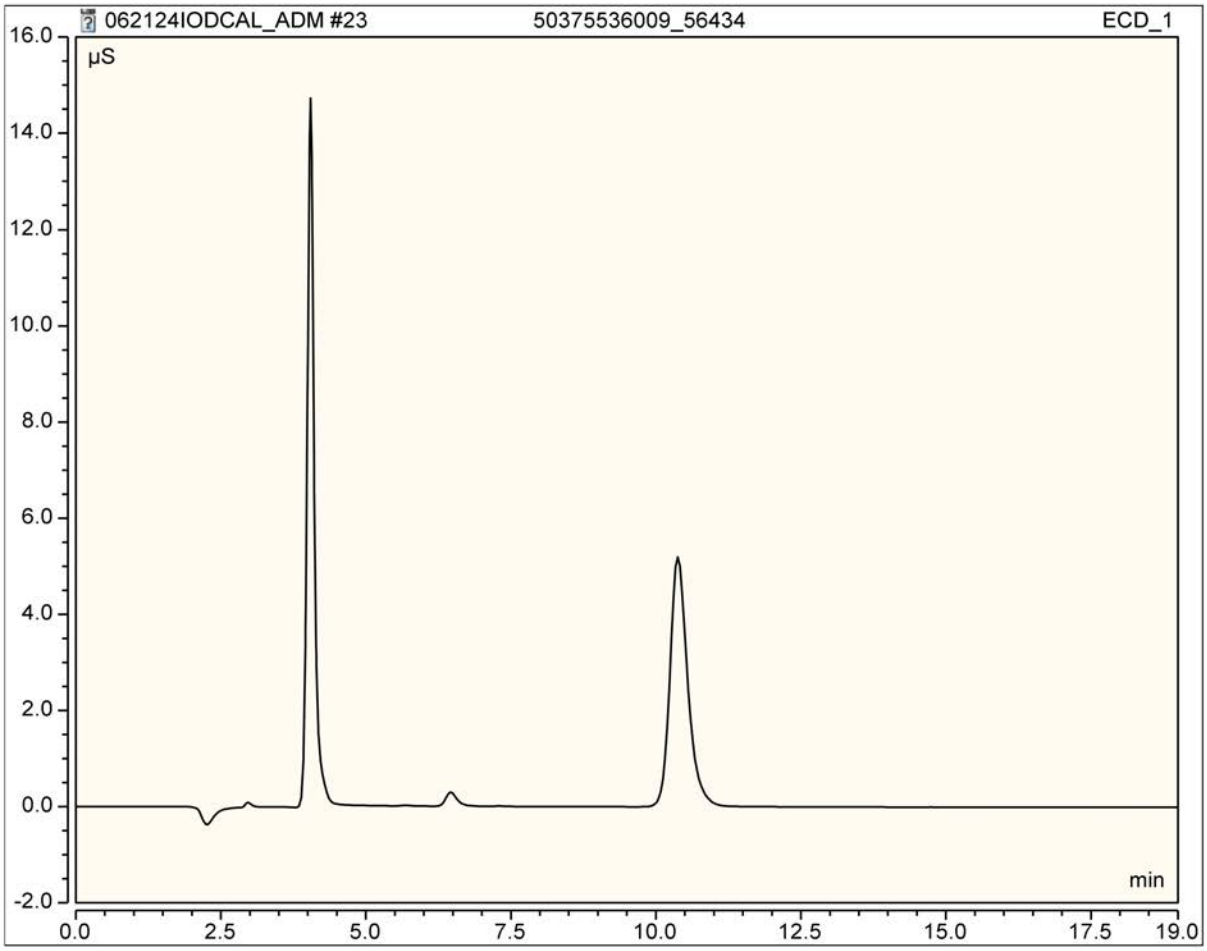
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536009_56434

Sample Name:	**50375536009_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 00:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

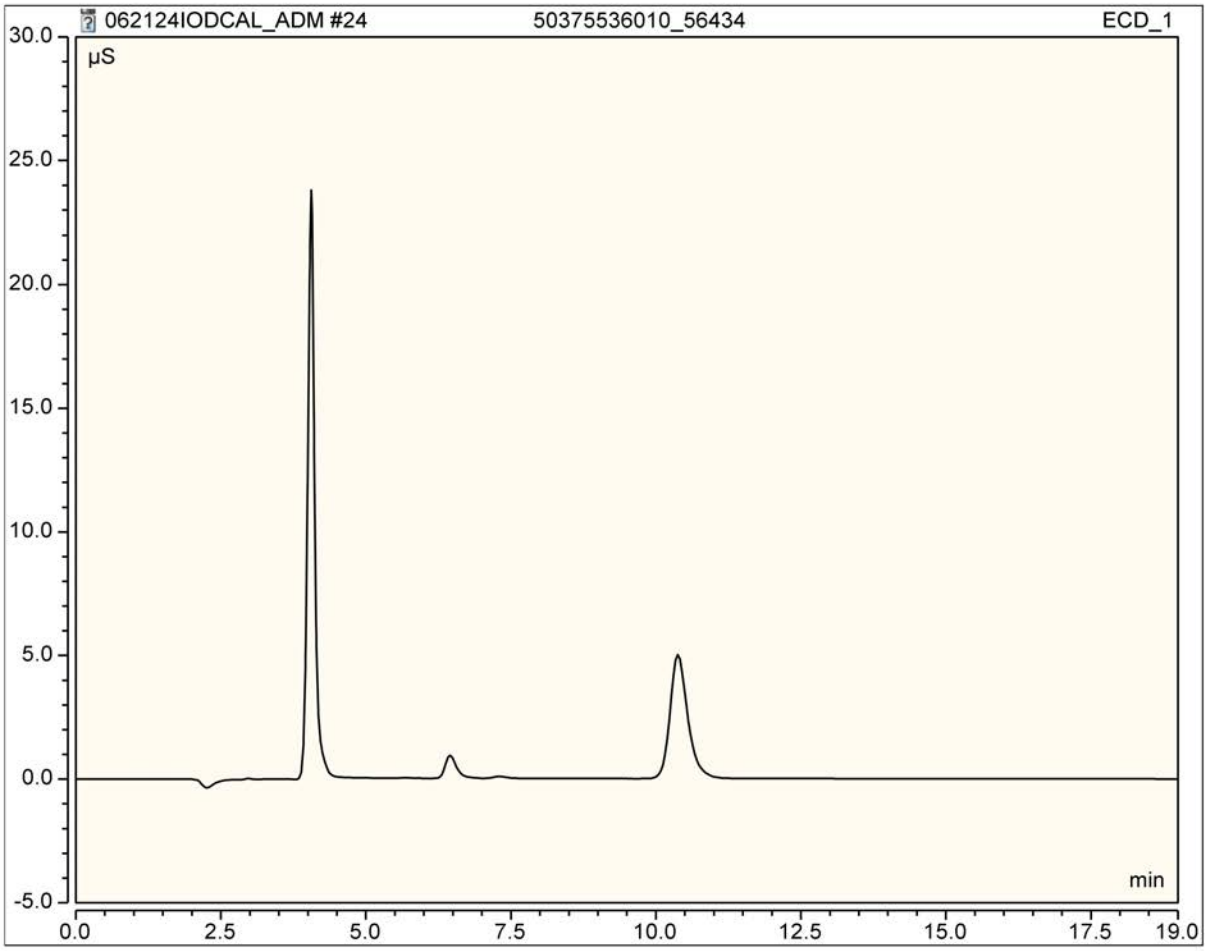
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536010_56434

Sample Name:	**50375536010_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

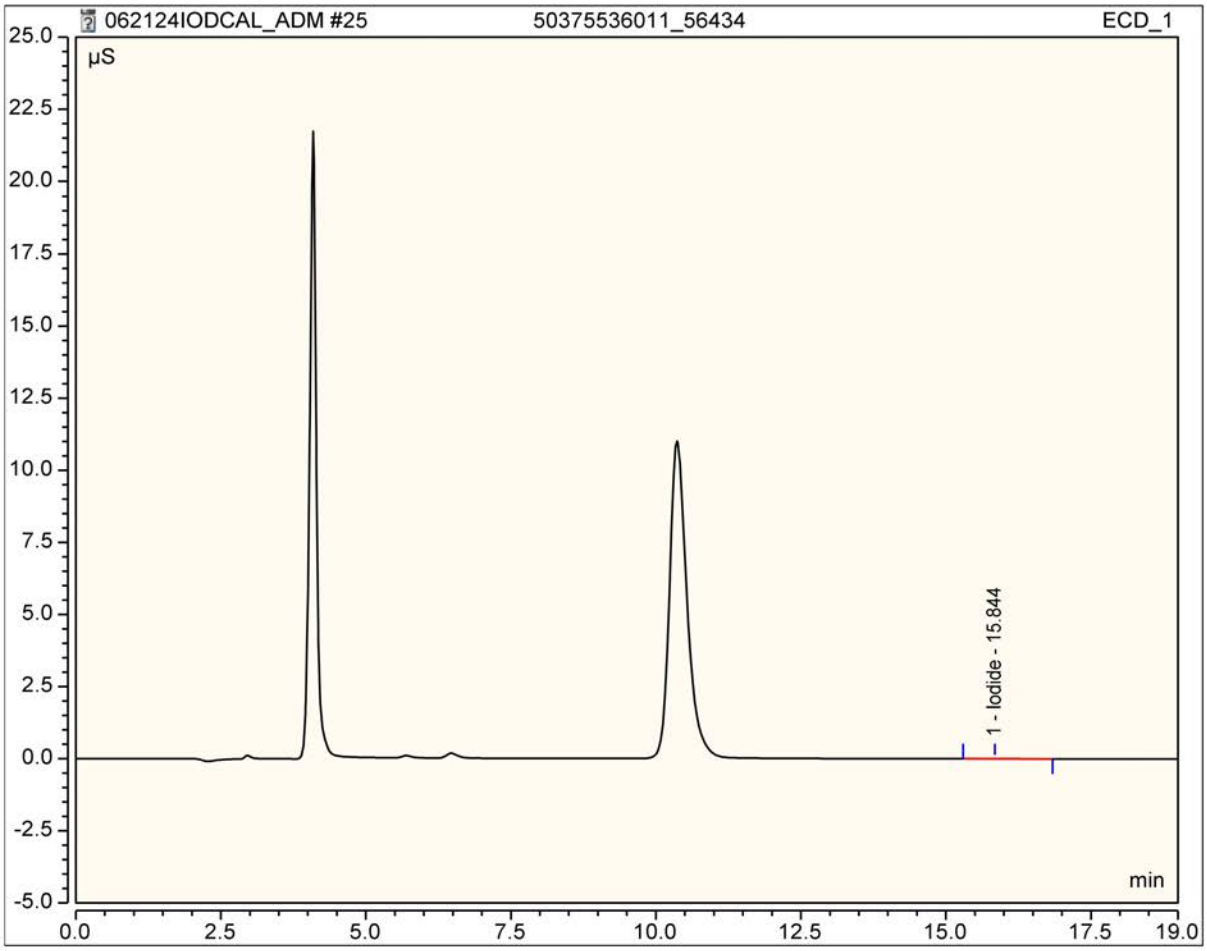
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536011_56434

Sample Name:	**50375536011_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:33**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

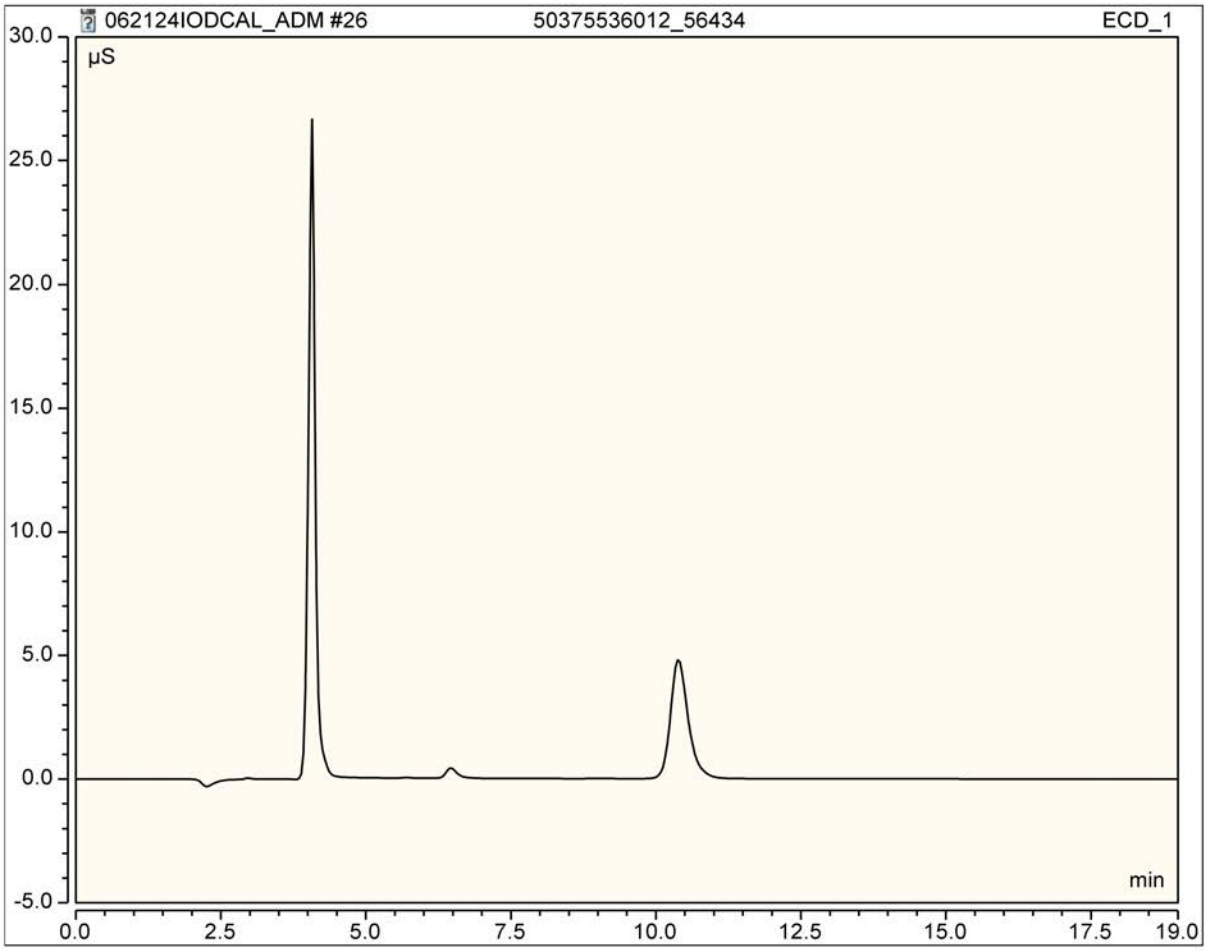
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.84	**Iodide**	0.2333	0.005	0.009	BMB



50375536012_56434

Sample Name:	**50375536012_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 01:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

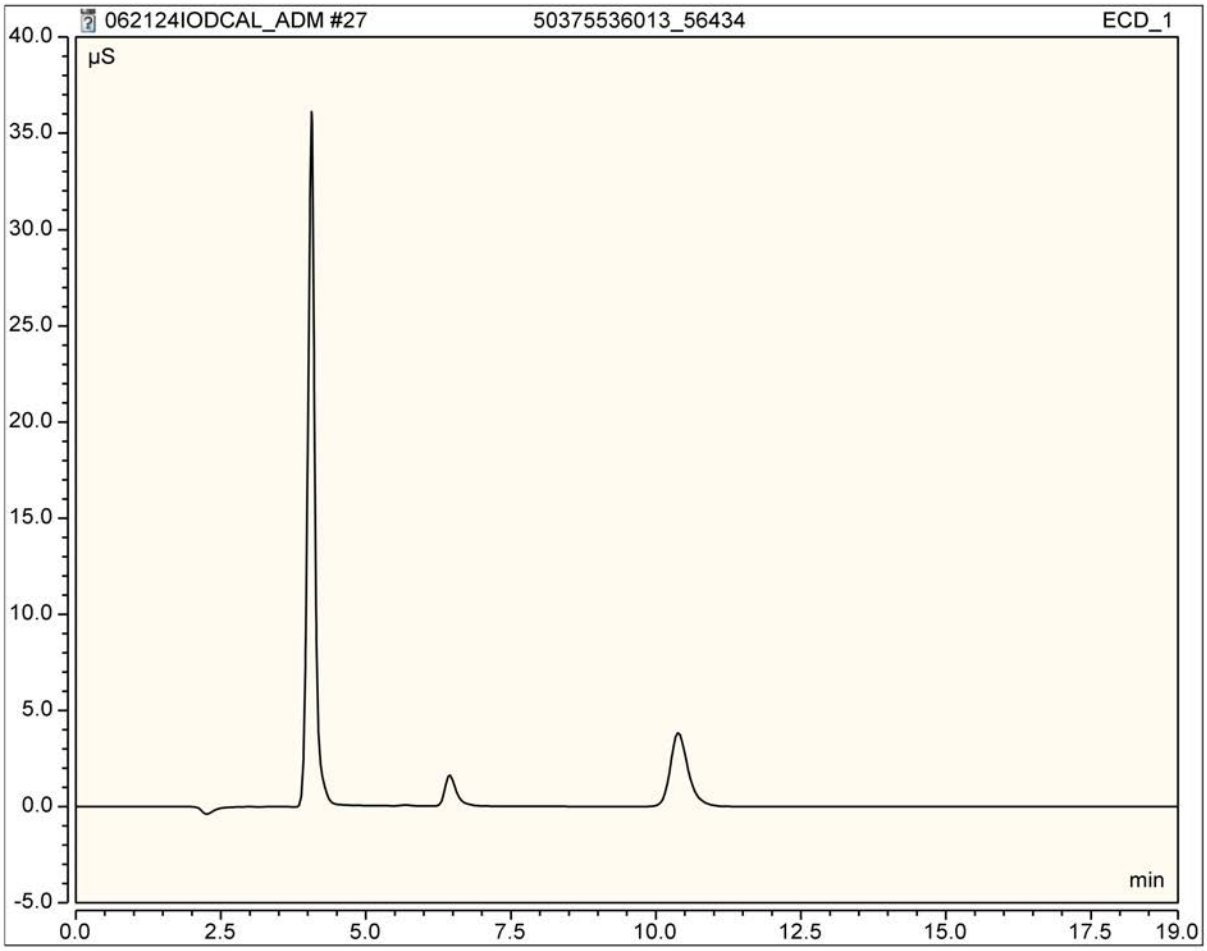
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536013_56434

Sample Name:	**50375536013_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

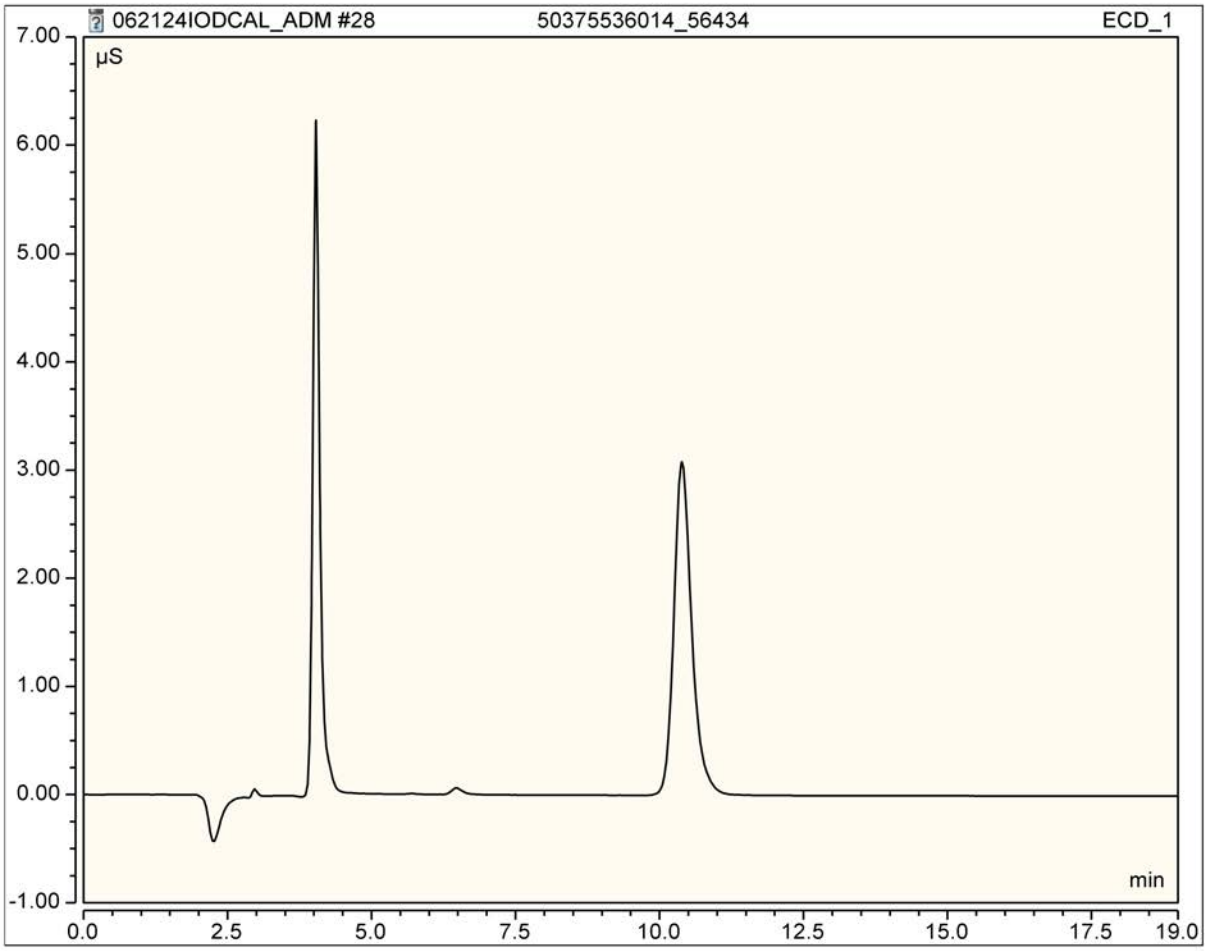
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536014_56434

Sample Name:	**50375536014_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 02:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

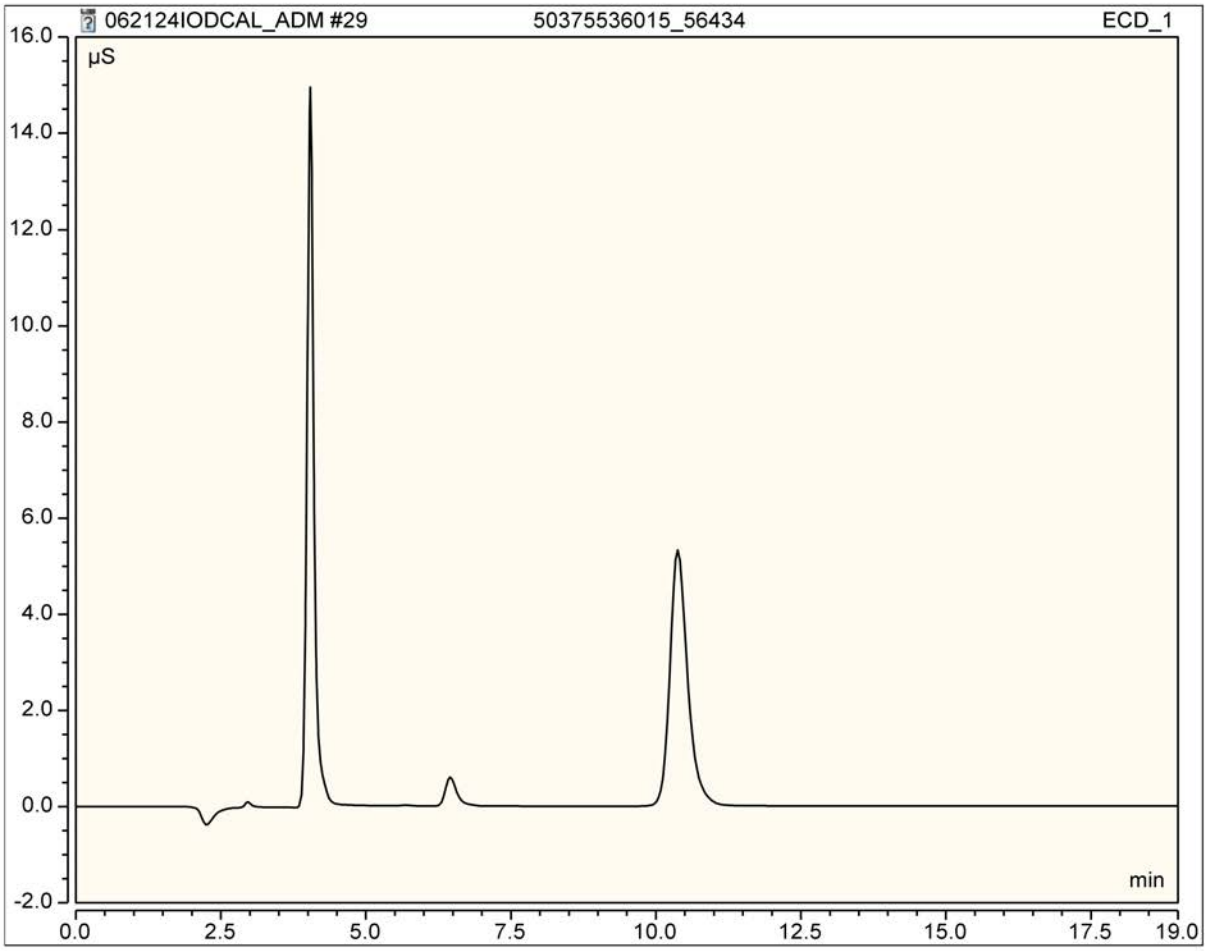
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536015_56434

Sample Name:	**50375536015_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

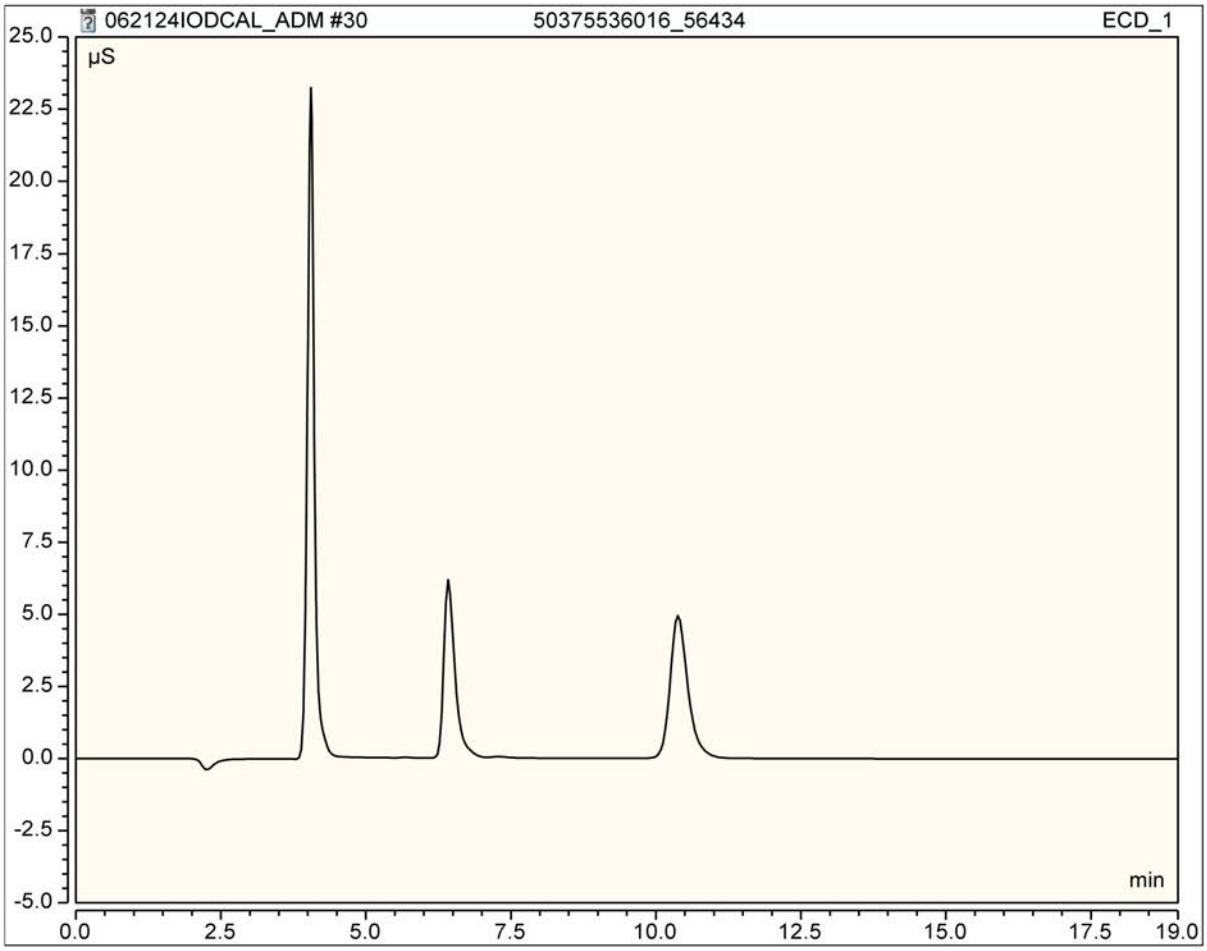
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536016_56434

Sample Name:	**50375536016_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

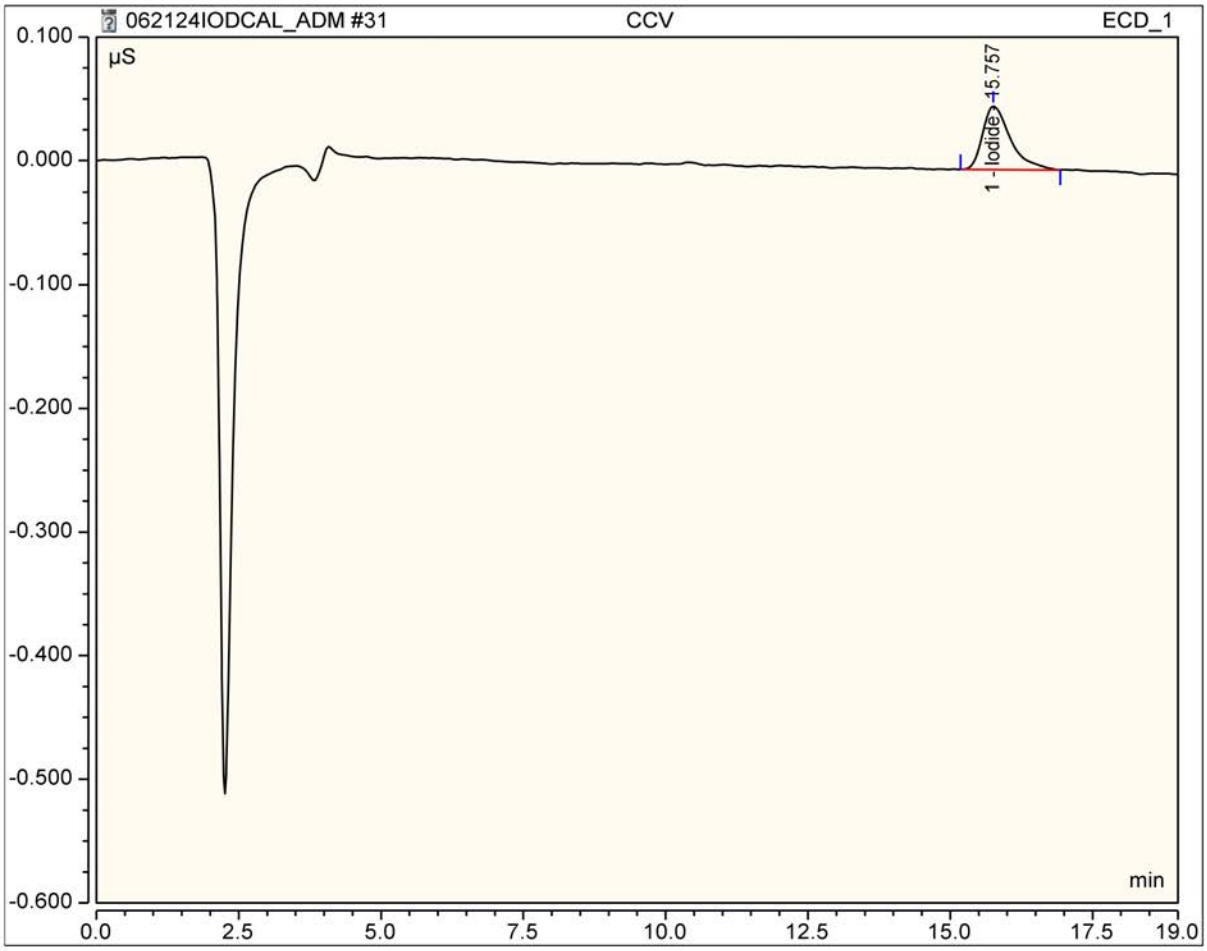
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 03:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

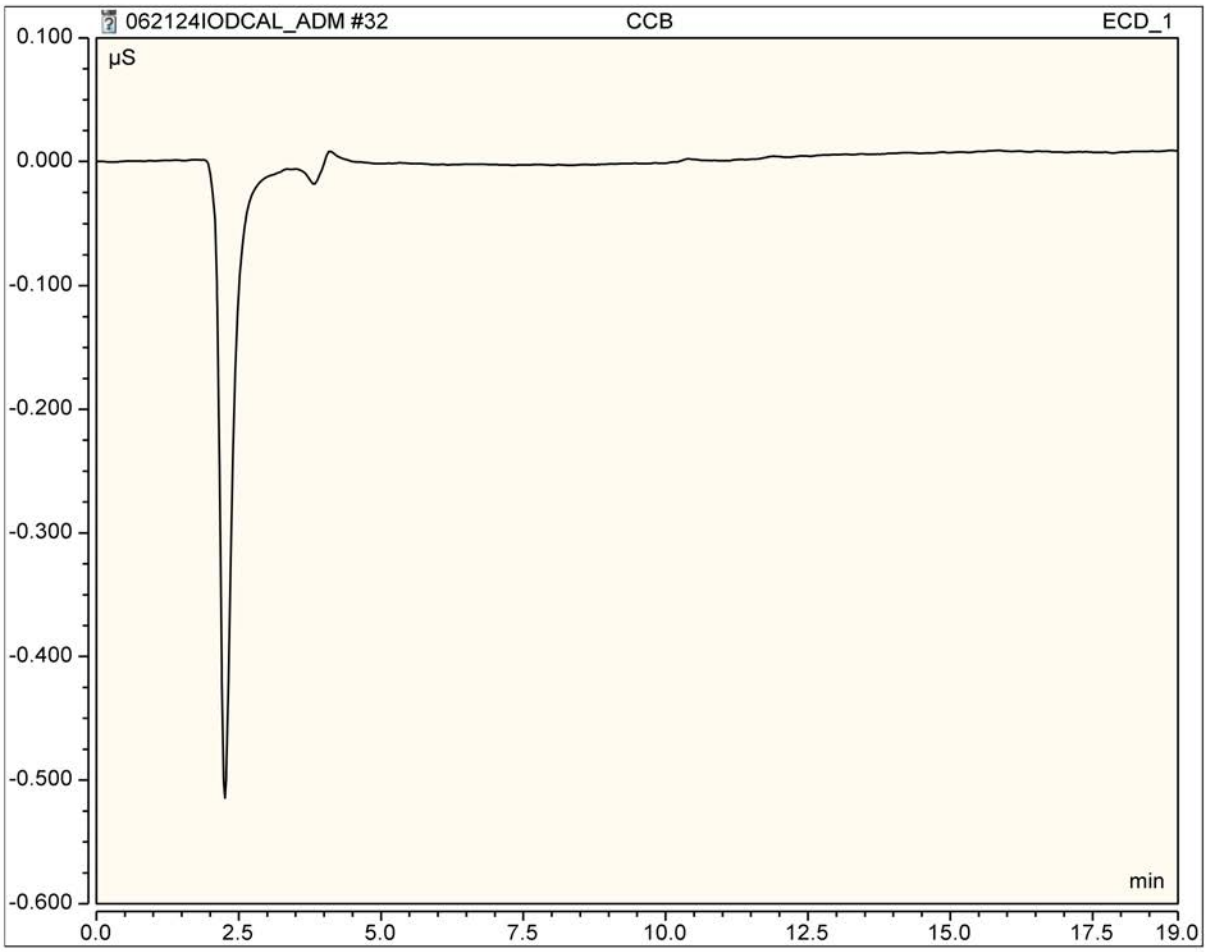
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0109	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

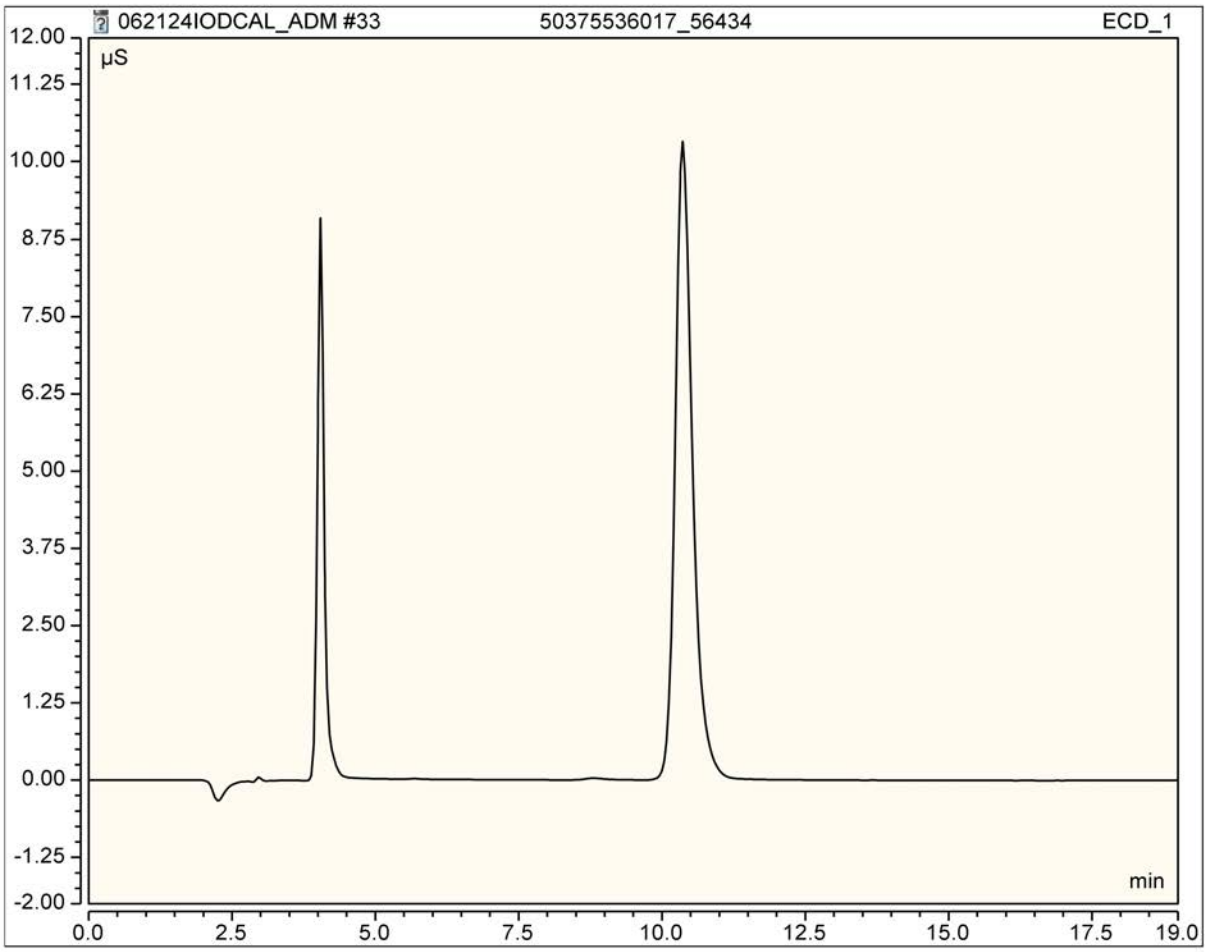
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536017_56434

Sample Name:	**50375536017_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

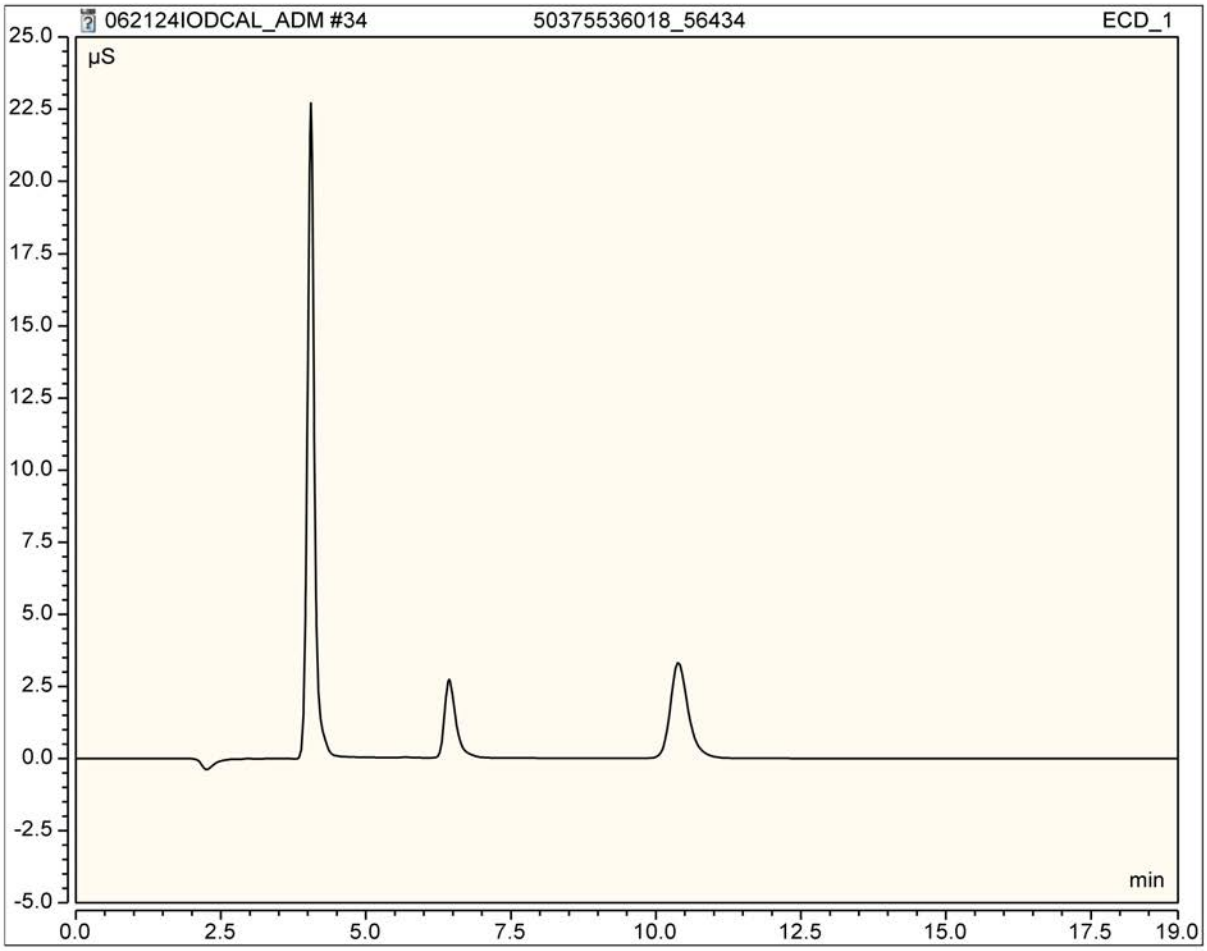
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536018_56434

Sample Name:	**50375536018_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 04:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

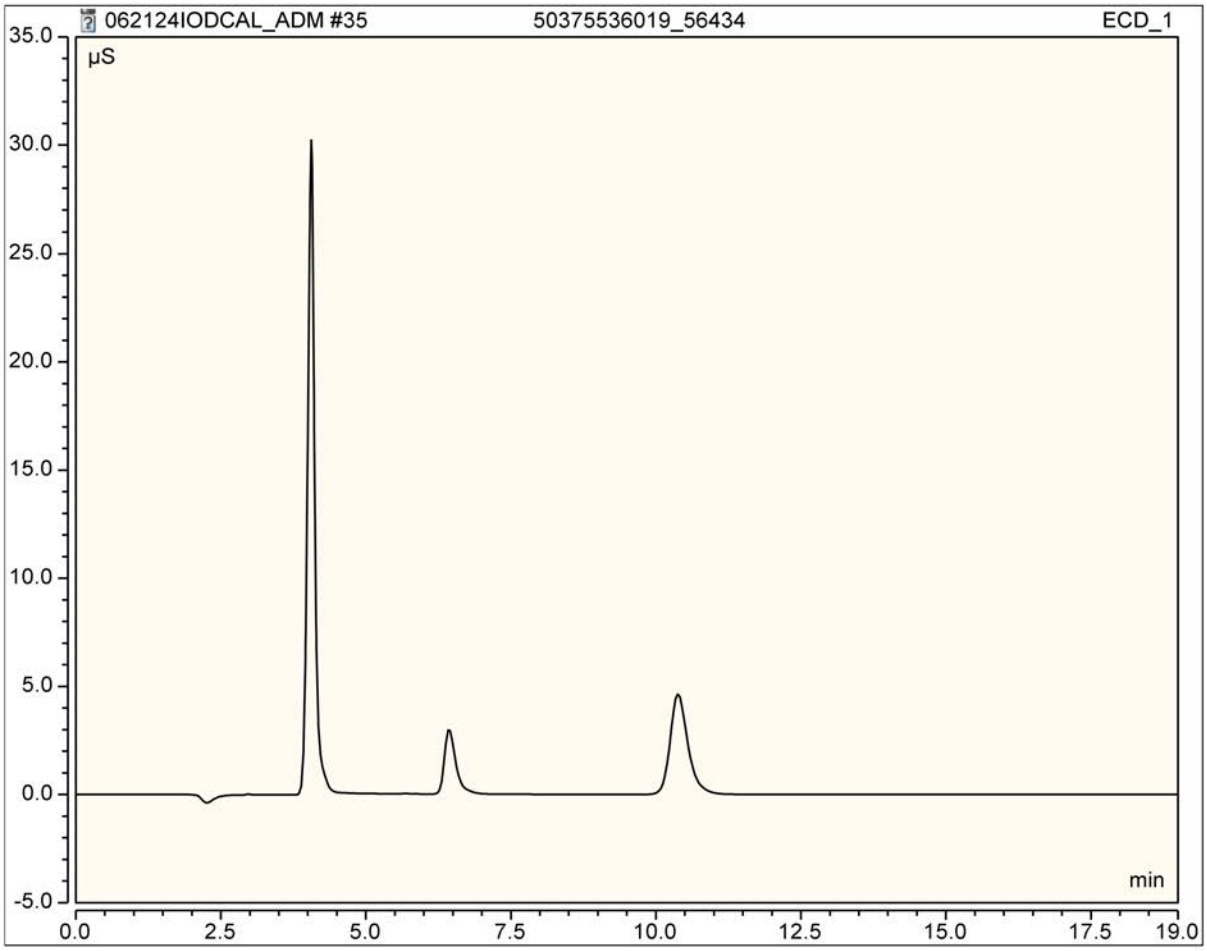
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375536019_56434

Sample Name:	**50375536019_56434**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

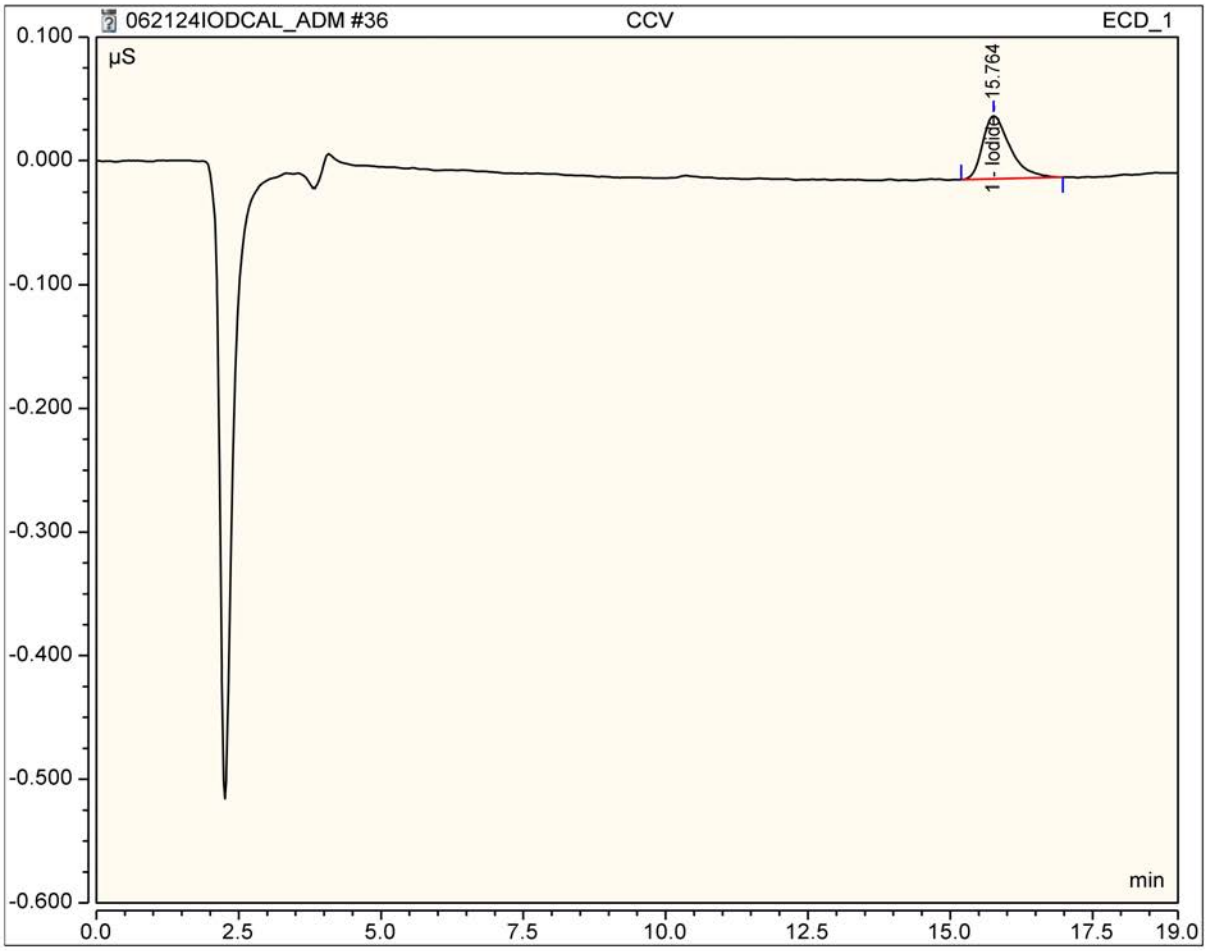
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

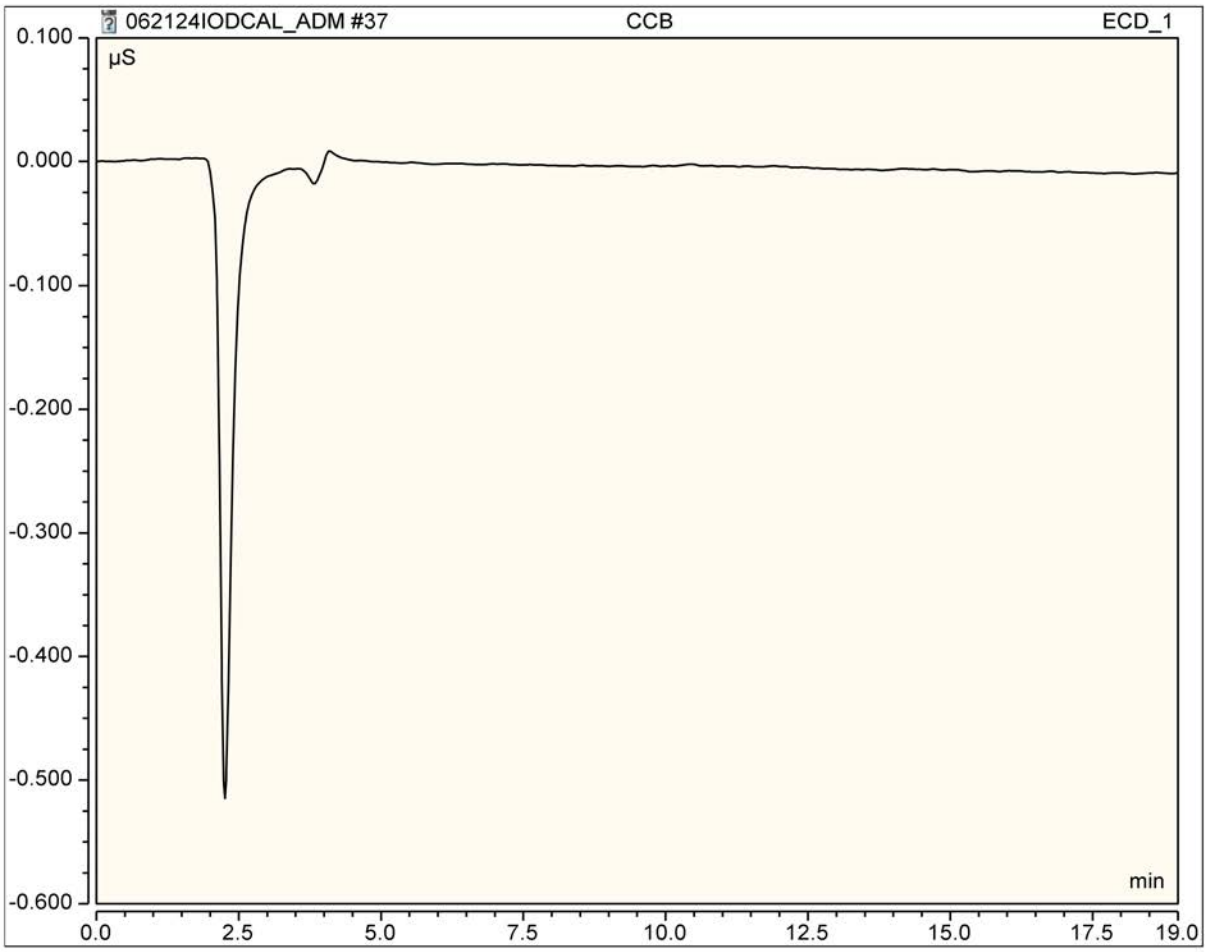
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	0.9942	0.029	0.051	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 05:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

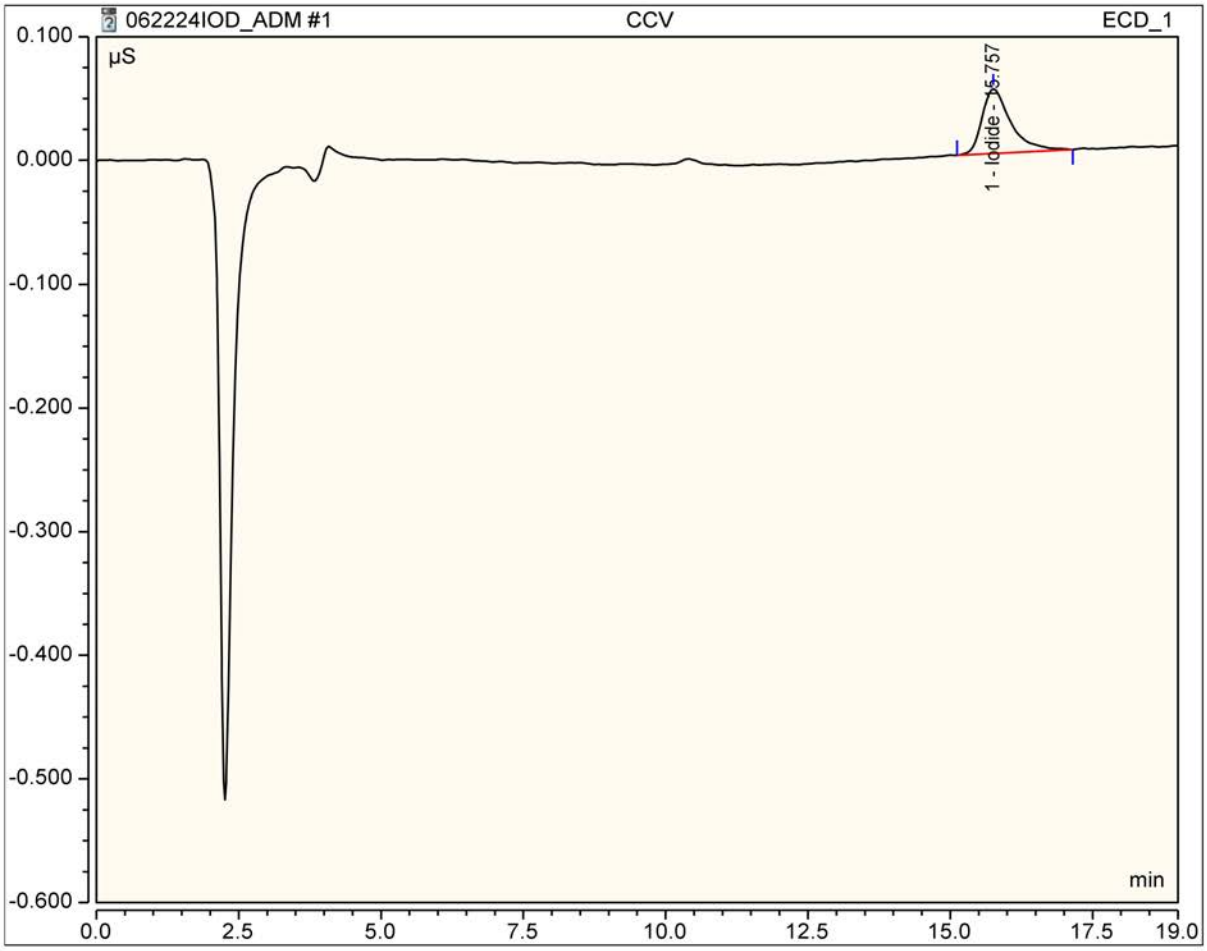
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:31**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

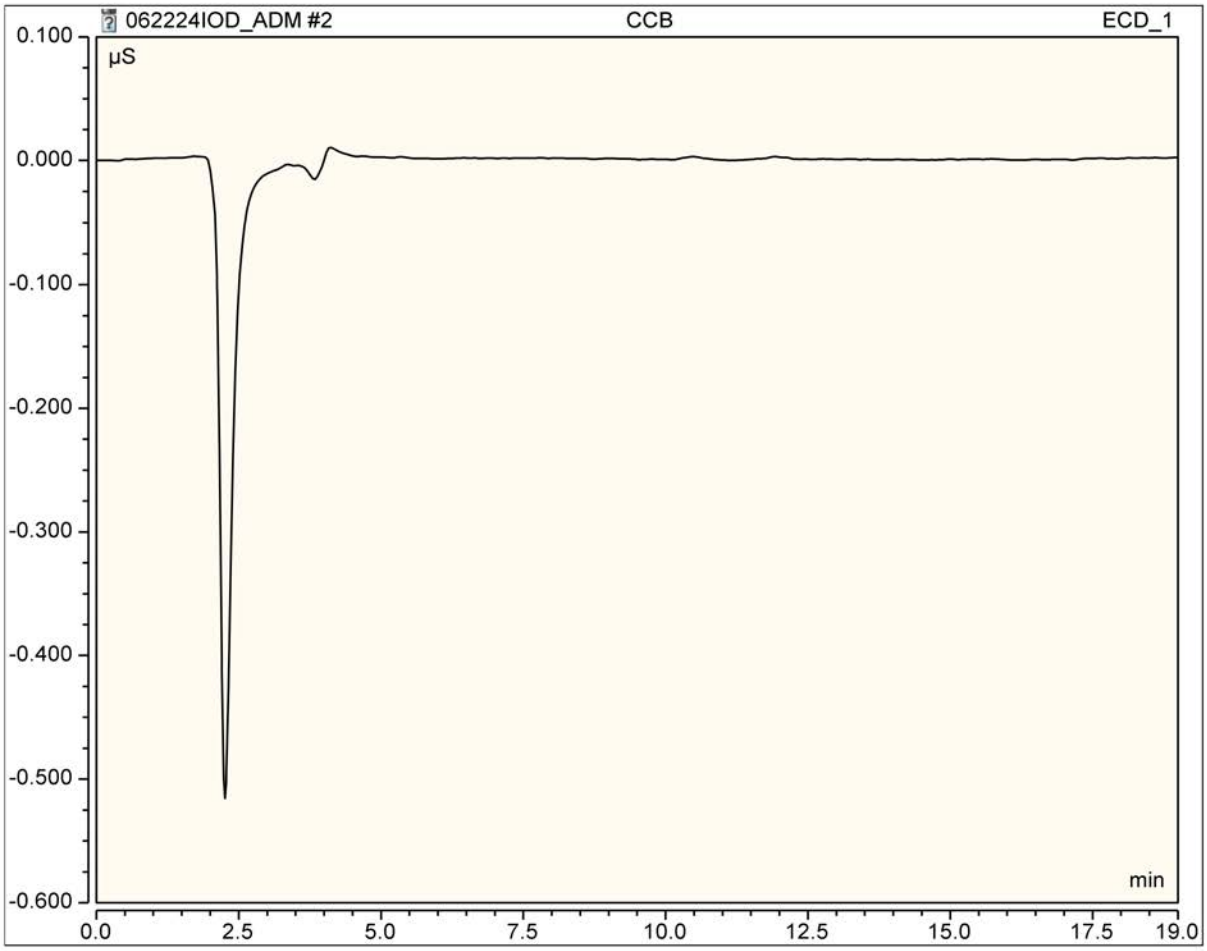
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.76	**Iodide**	1.0630	0.031	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 12:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

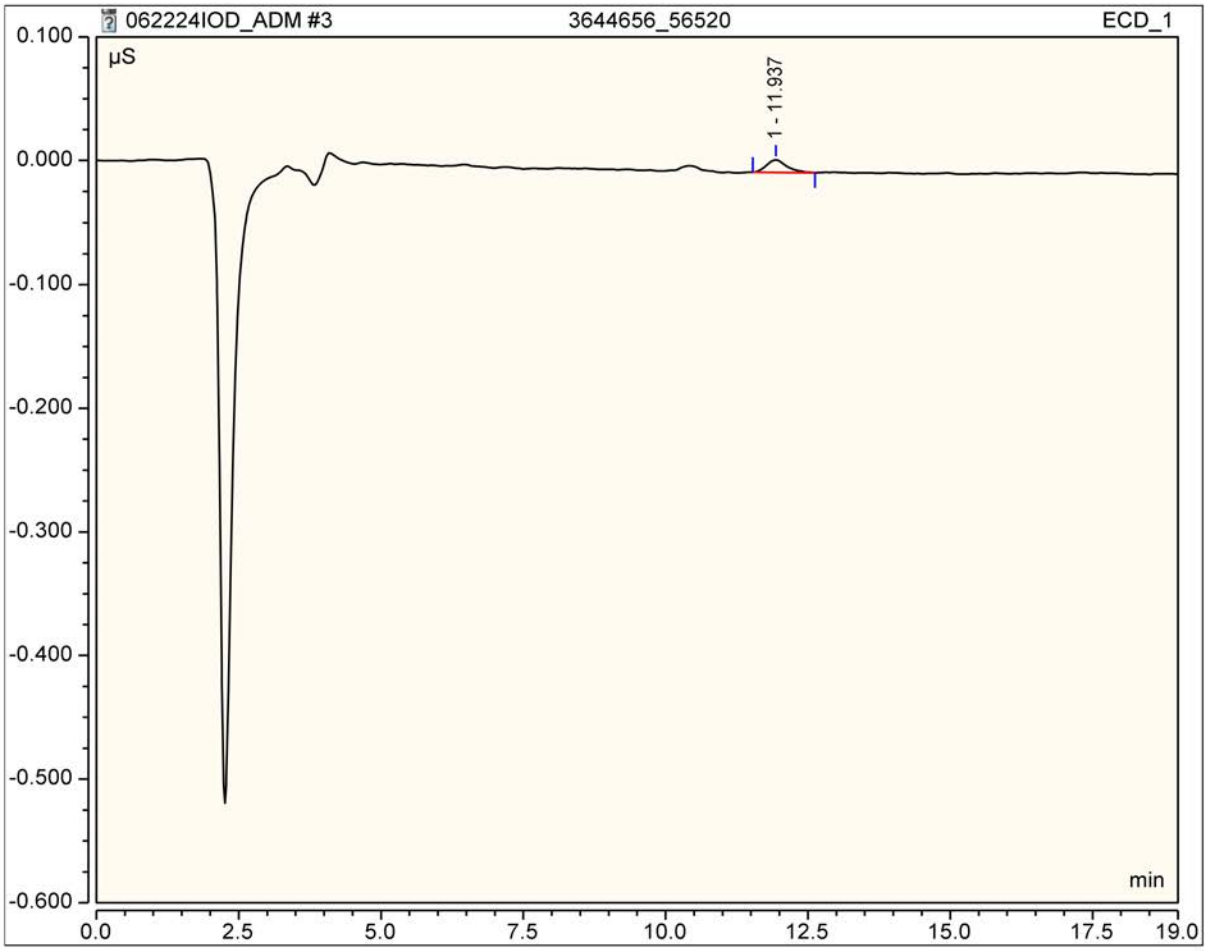
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644656_56520
340111

Sample Name:	**3644656_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

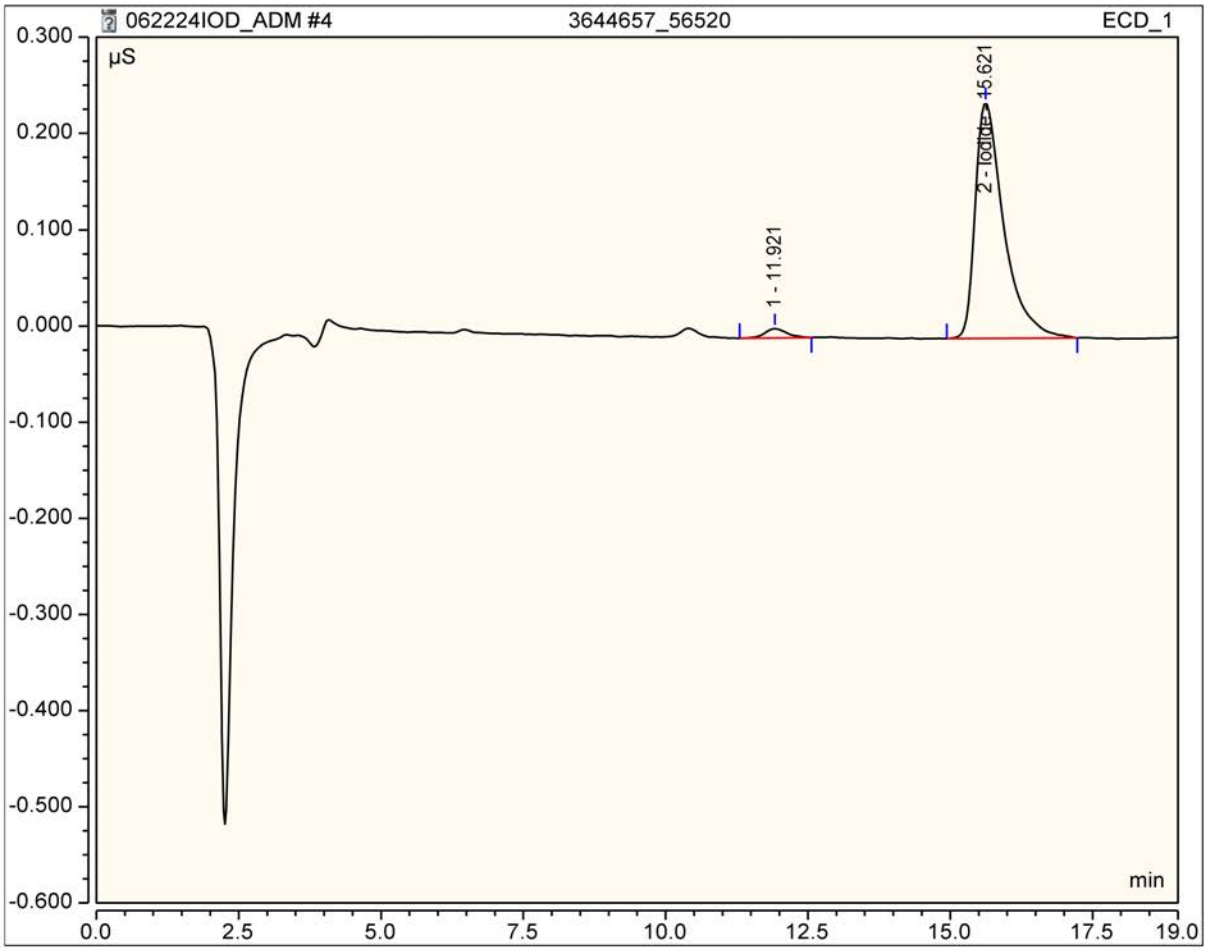
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644657_56520
377680

Sample Name:	**3644657_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 13:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

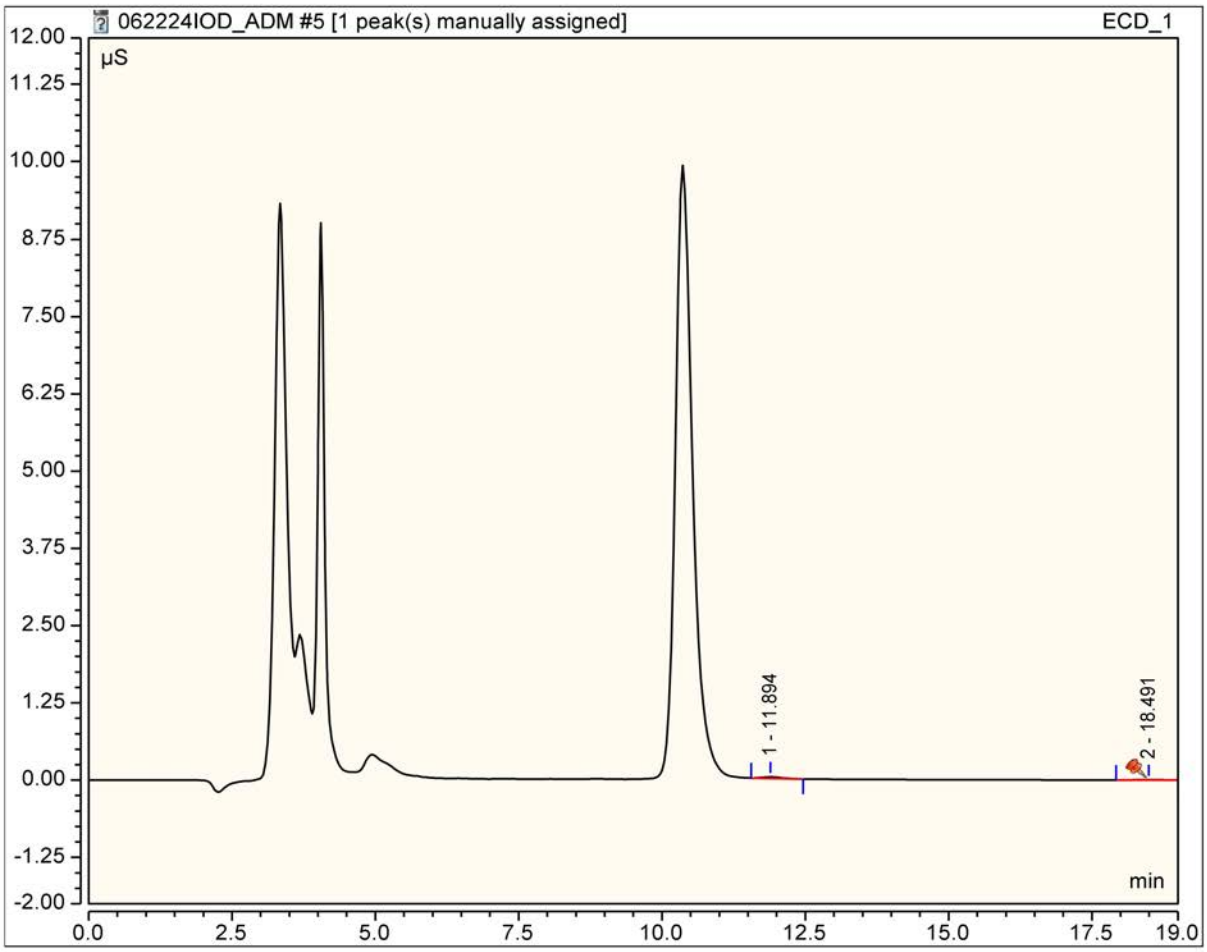
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.62	**Iodide**	4.6787	0.142	0.244	BMB



92735570001_56520X10

Sample Name:	**92735570001_56520X10**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 16:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

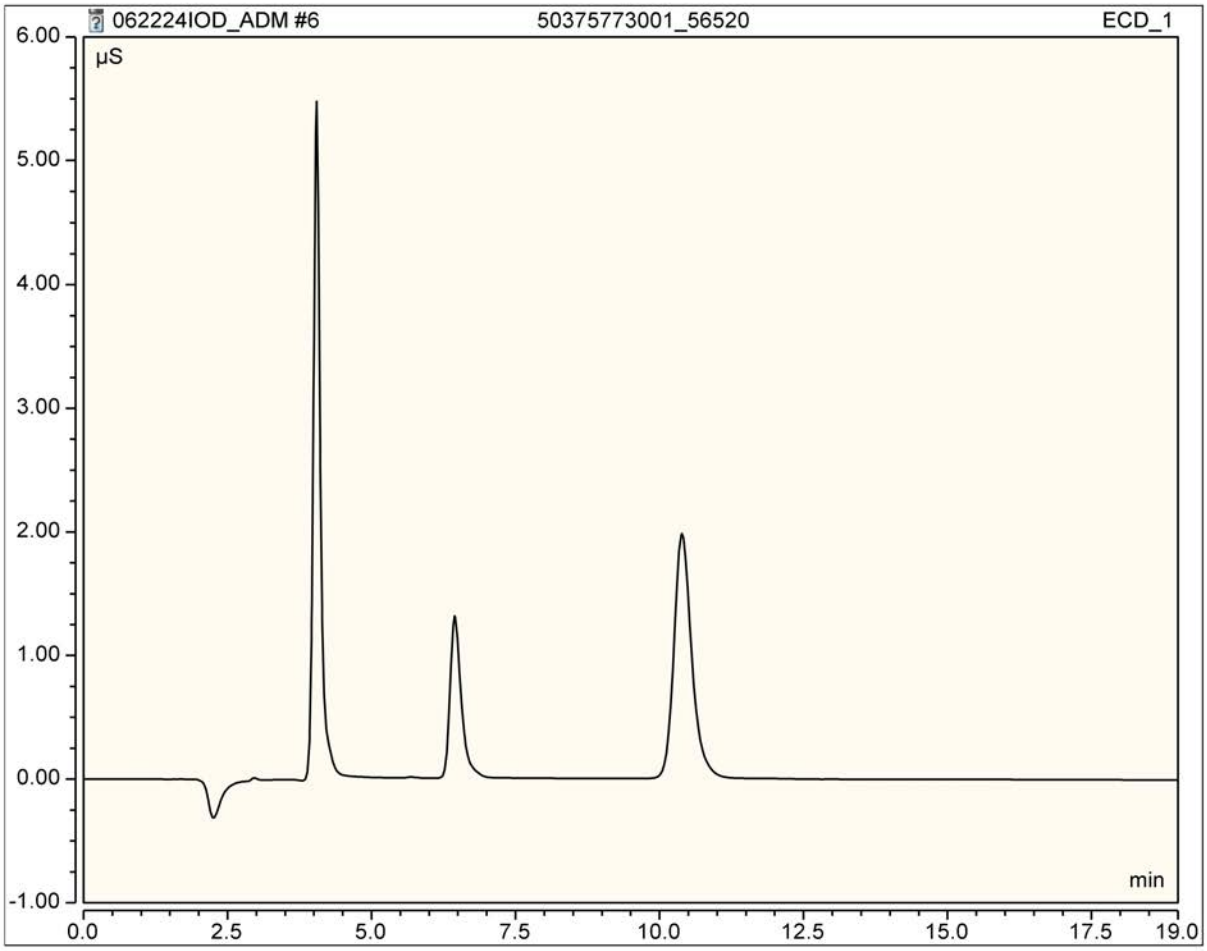
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773001_56520

Sample Name:	**50375773001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

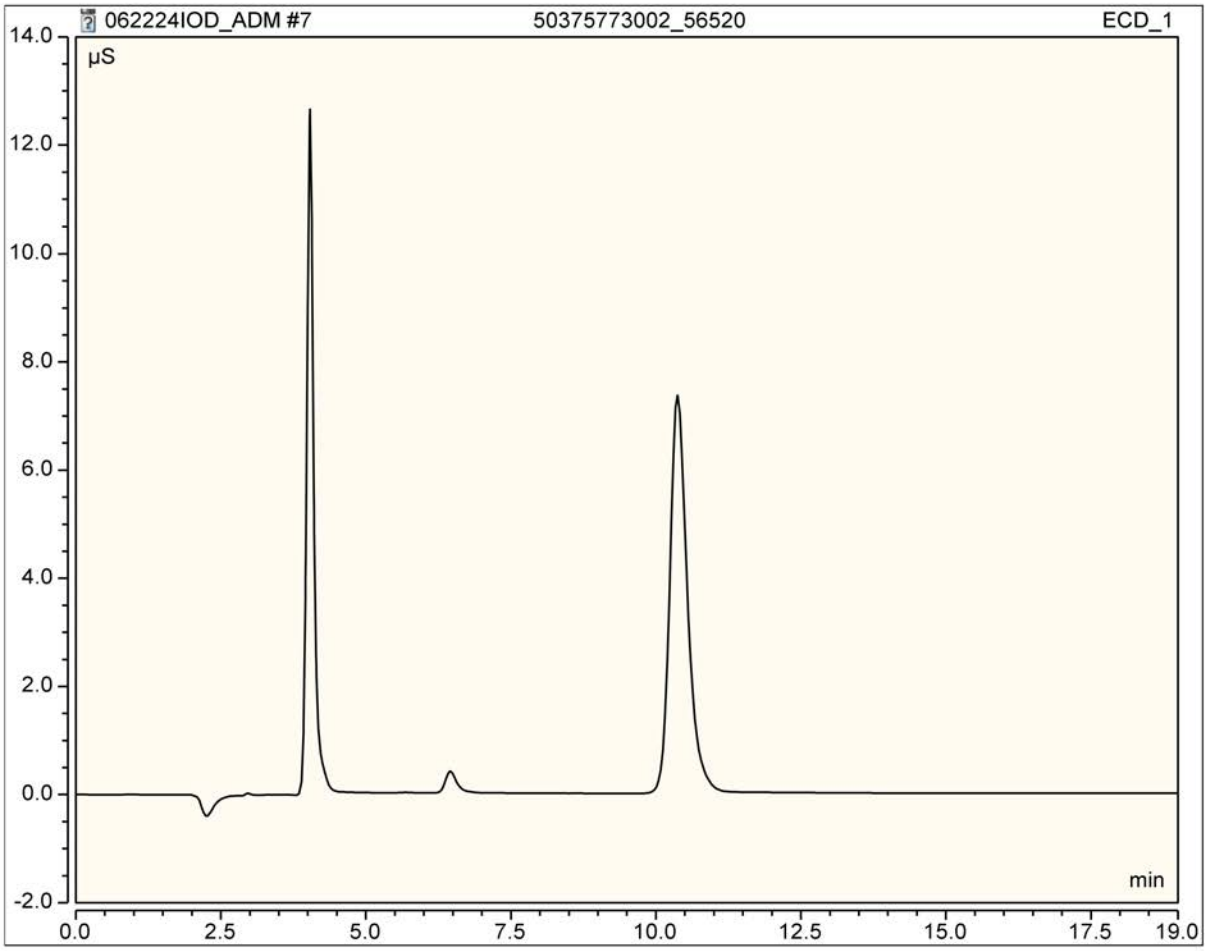
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773002_56520

Sample Name:	**50375773002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:28**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

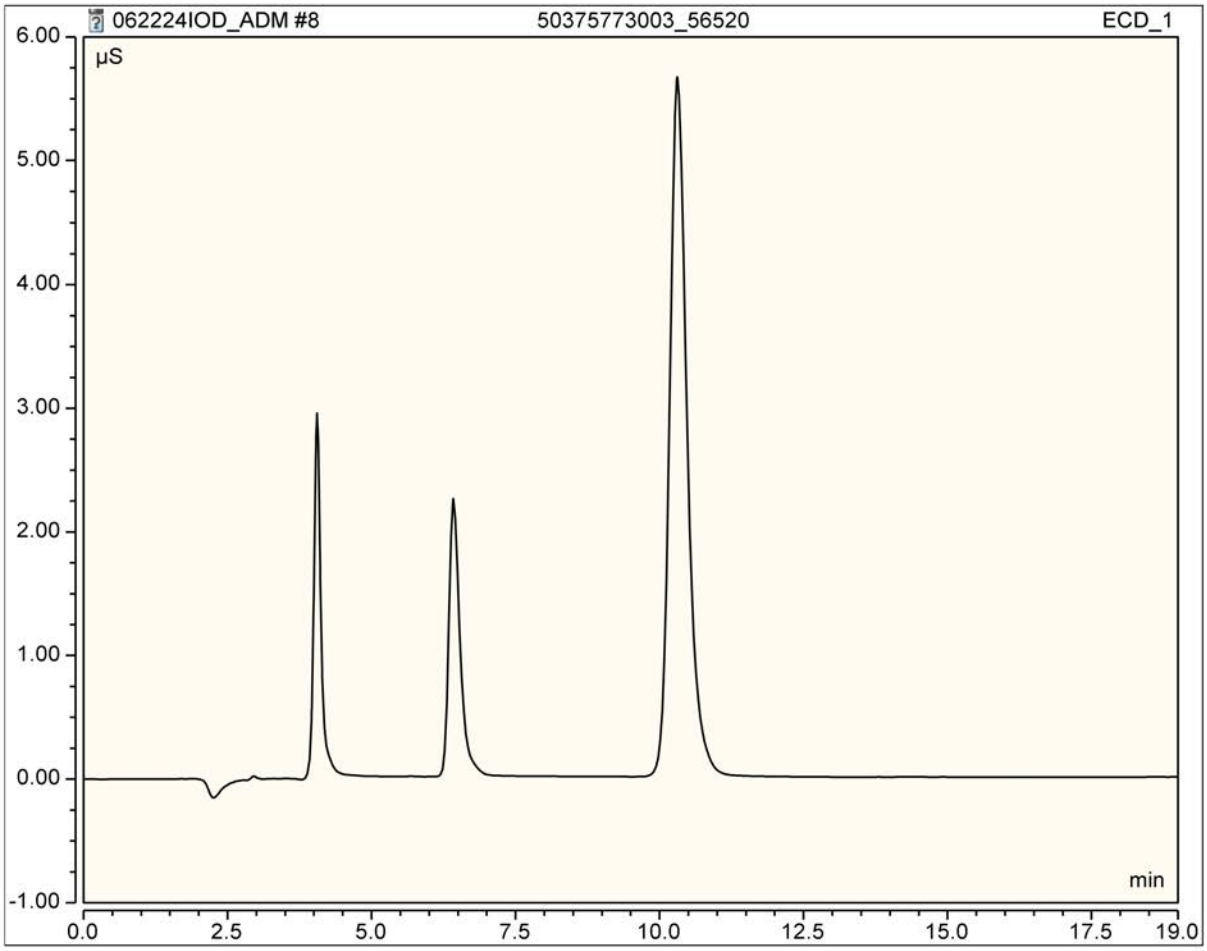
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773003_56520

Sample Name:	**50375773003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 17:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

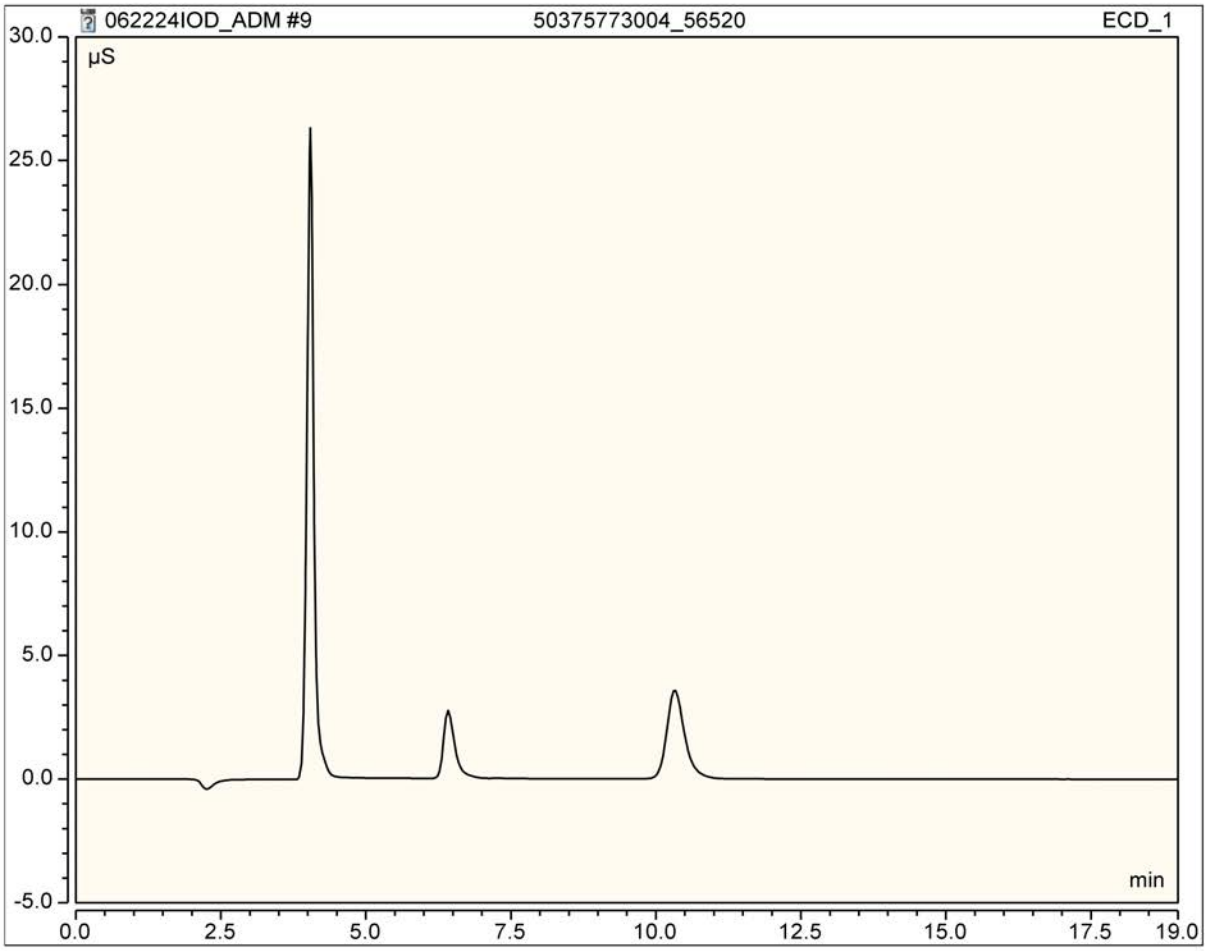
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50375773004_56520

Sample Name:	**50375773004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

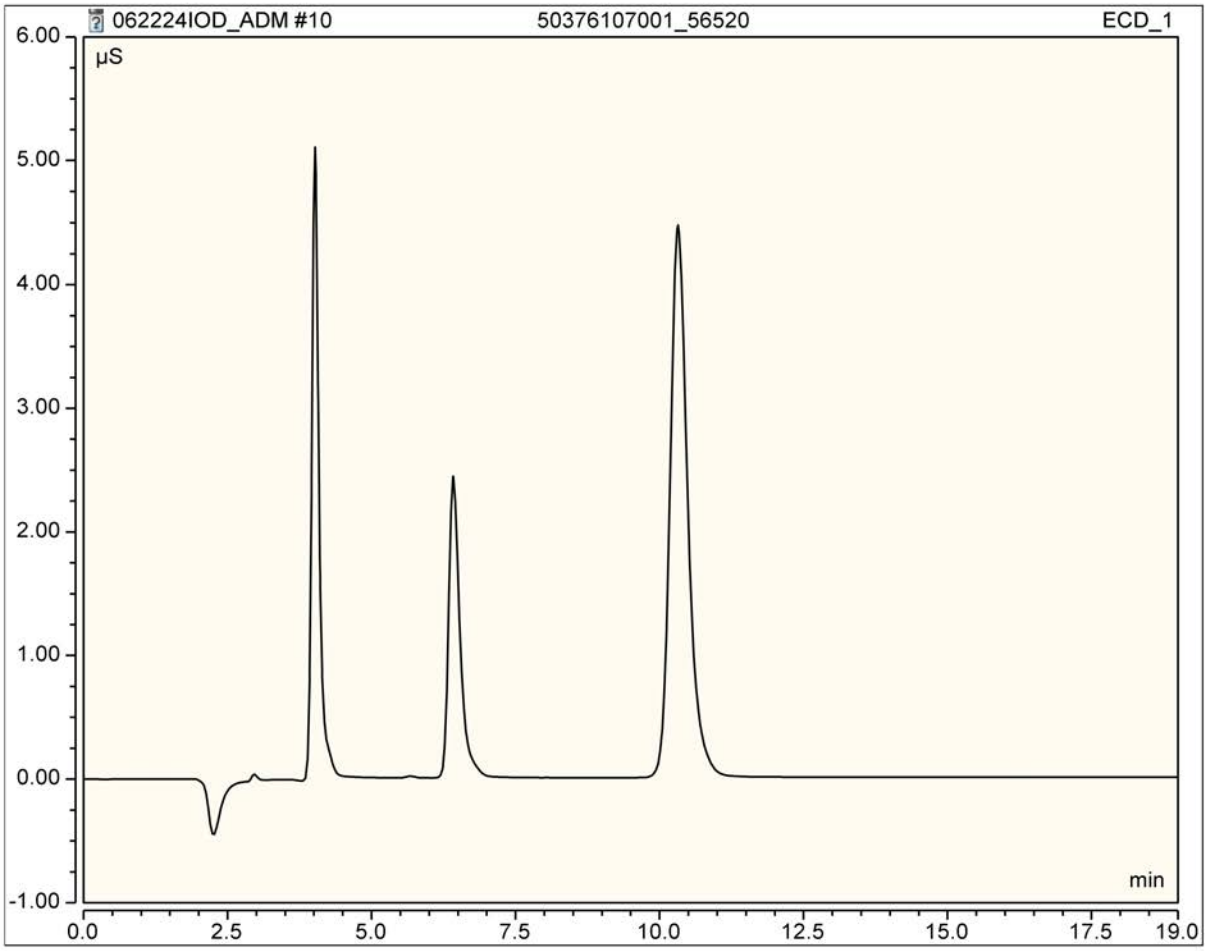
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107001_56520

Sample Name:	**50376107001_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

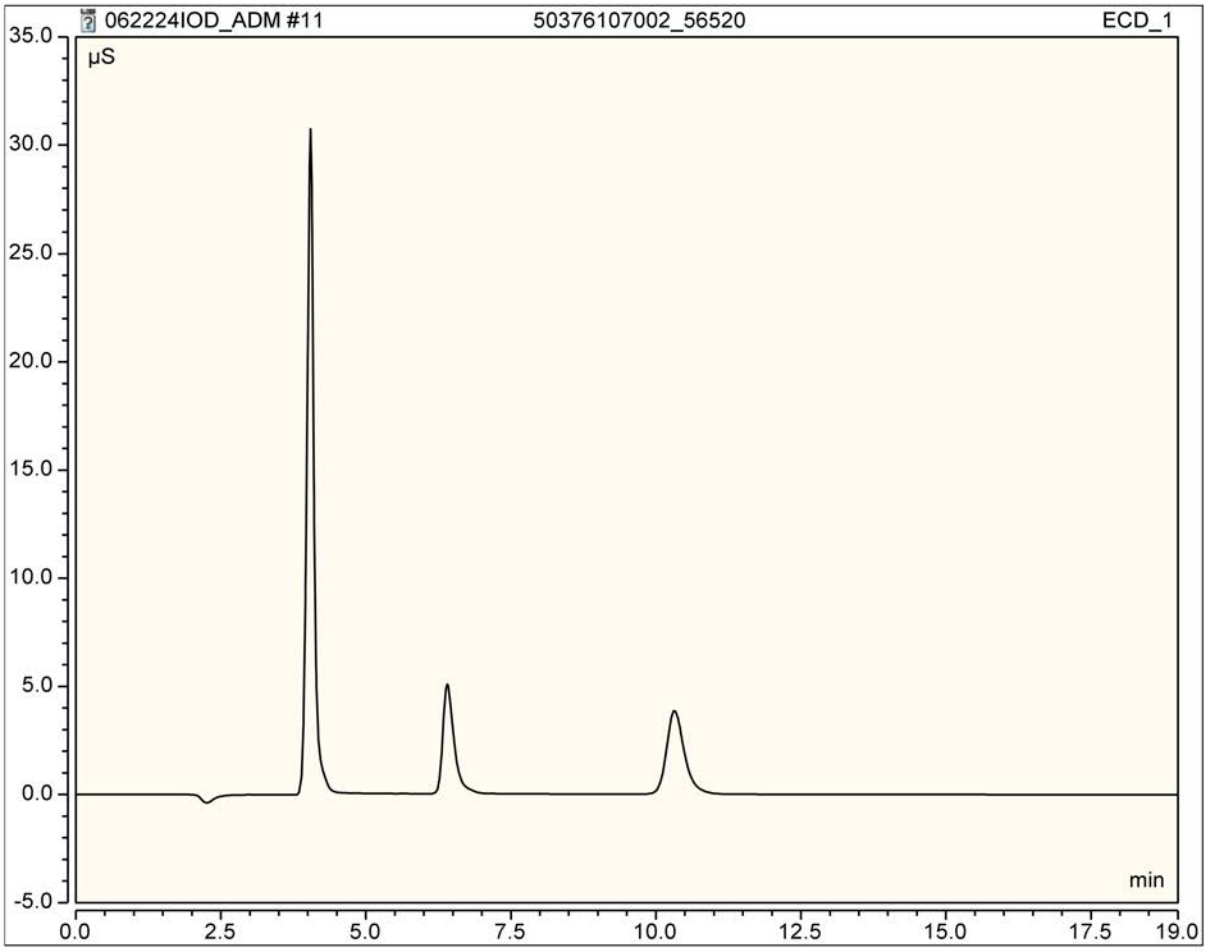
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107002_56520

Sample Name:	**50376107002_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 18:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

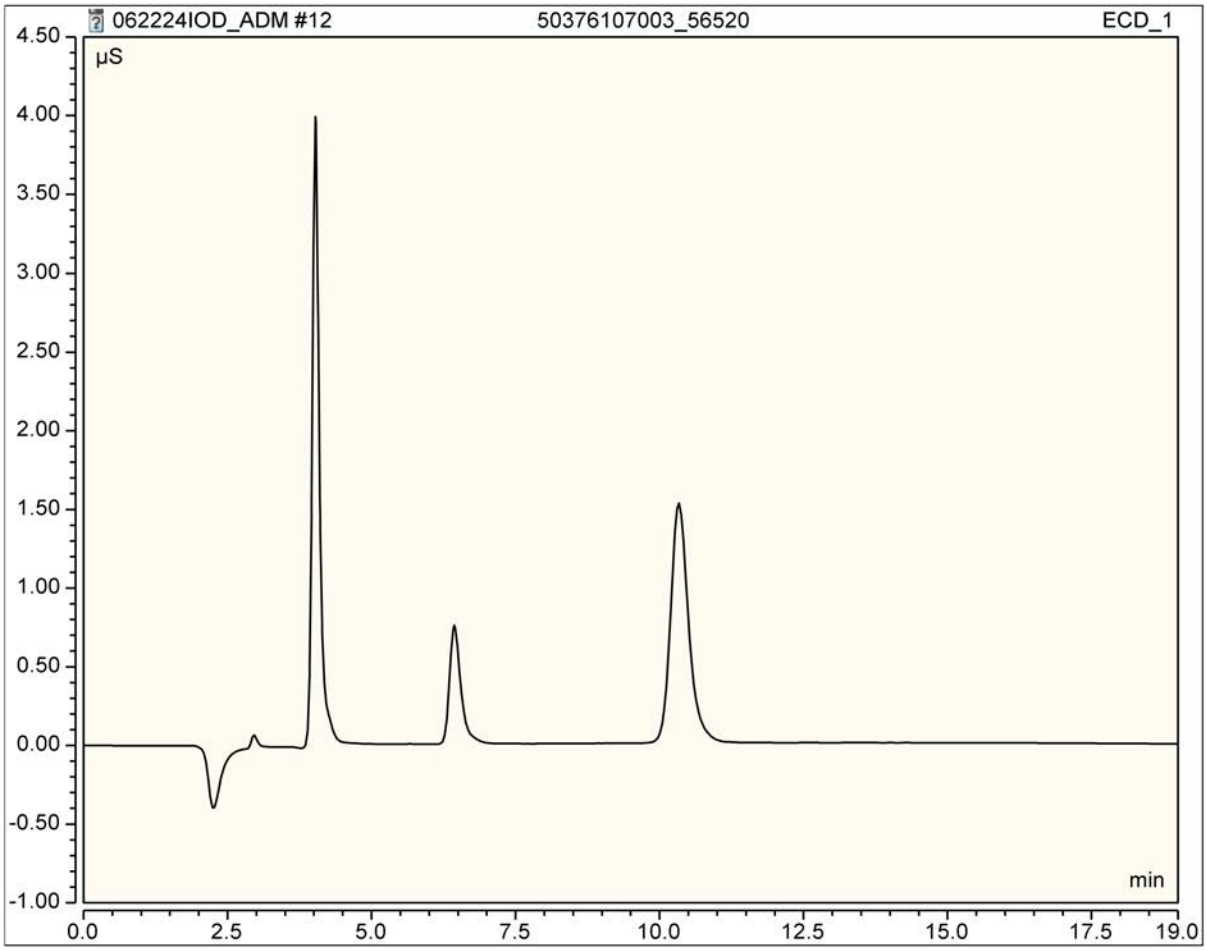
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107003_56520

Sample Name:	**50376107003_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:17**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

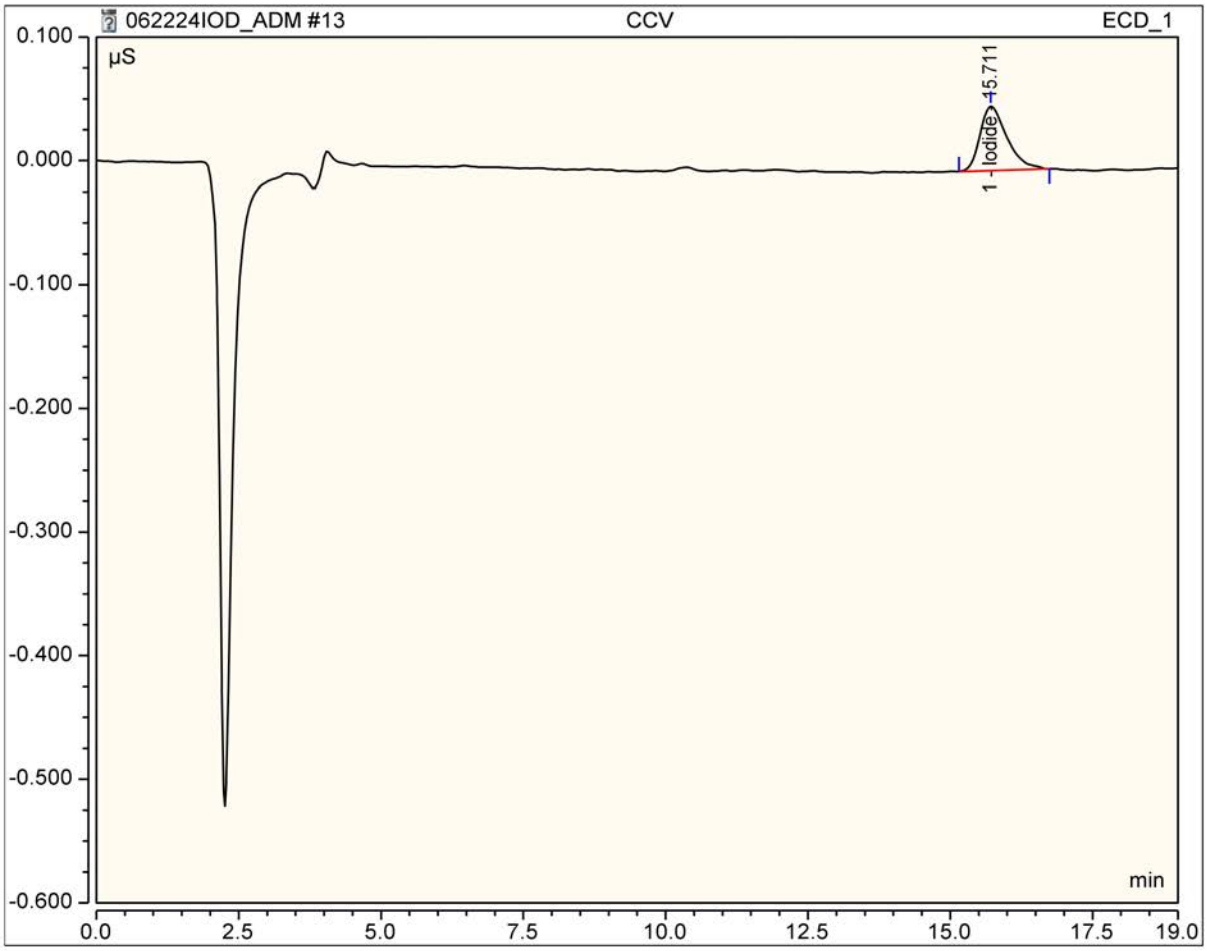
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*9*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 19:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

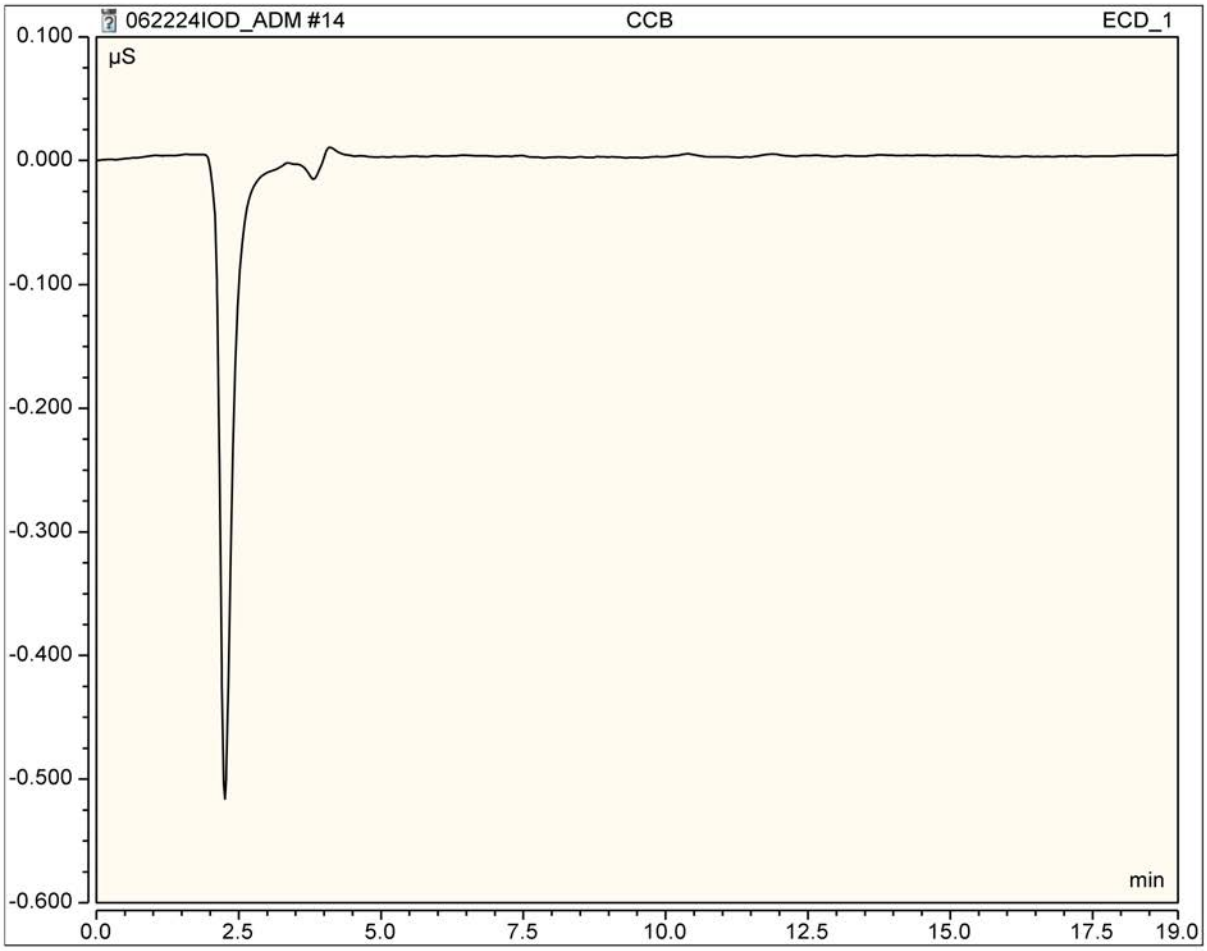
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	0.9914	0.028	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*10*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:01**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

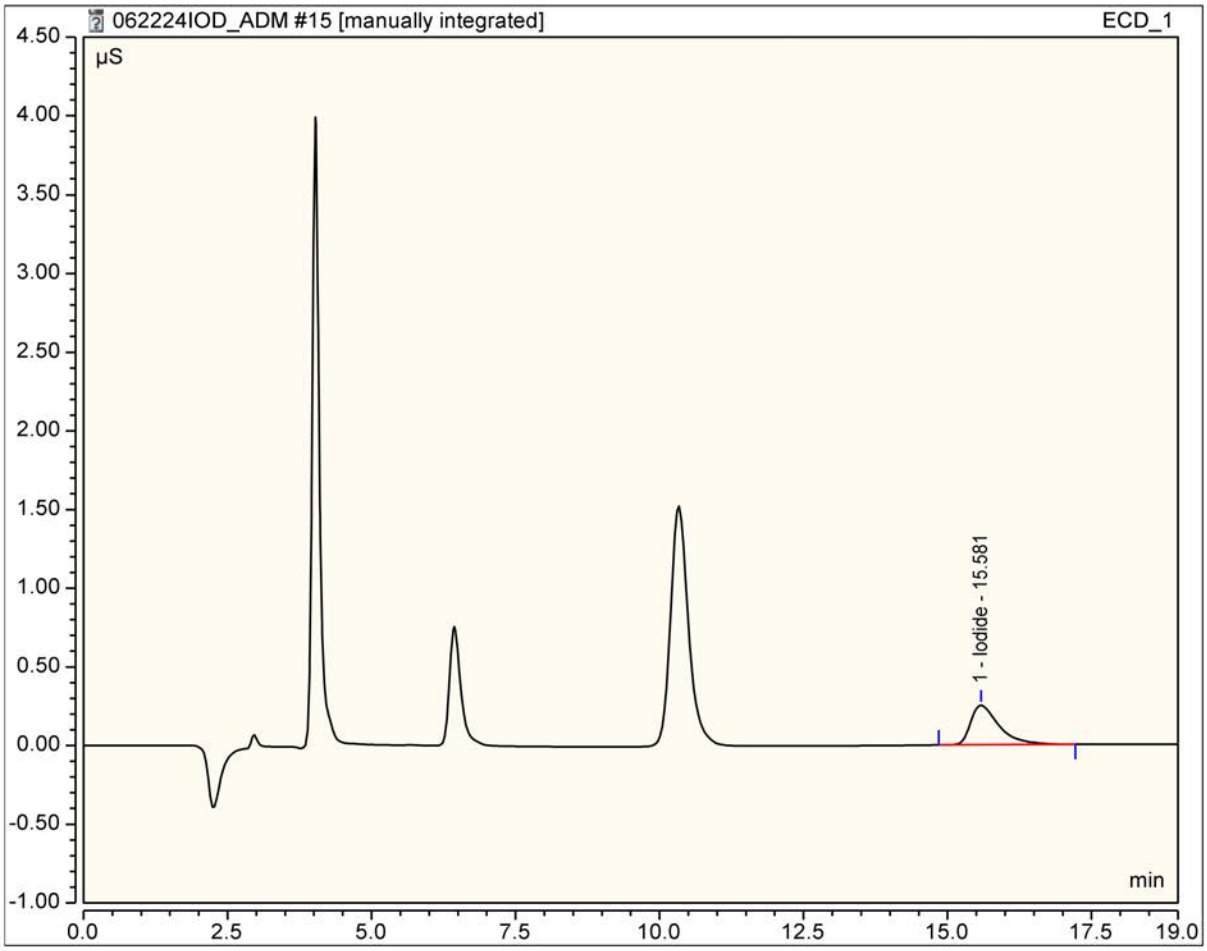
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3644658_56520
377680

Sample Name:	**3644658_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

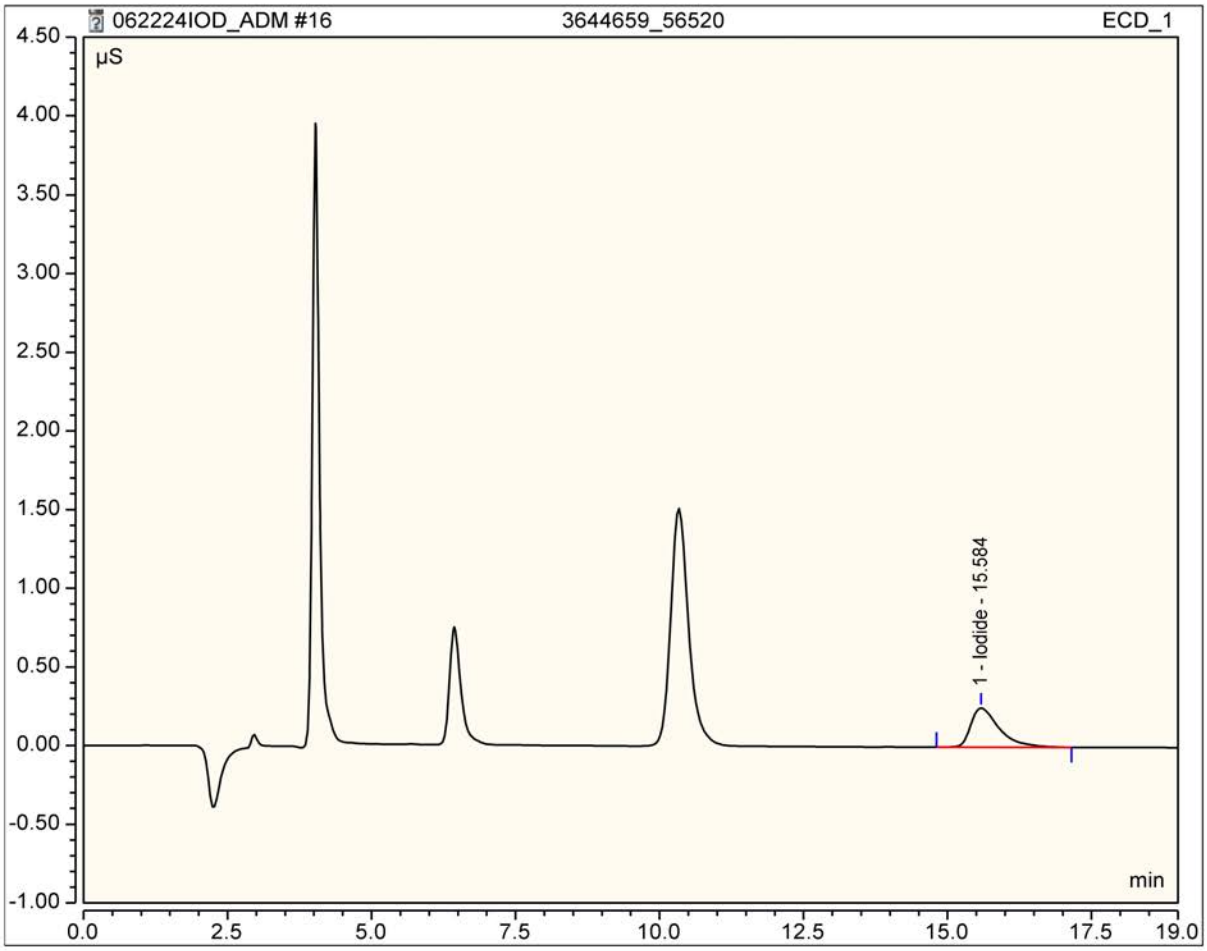
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7448	0.144	0.251	BMB*



3644659_56520
377680

Sample Name:	**3644659_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 20:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

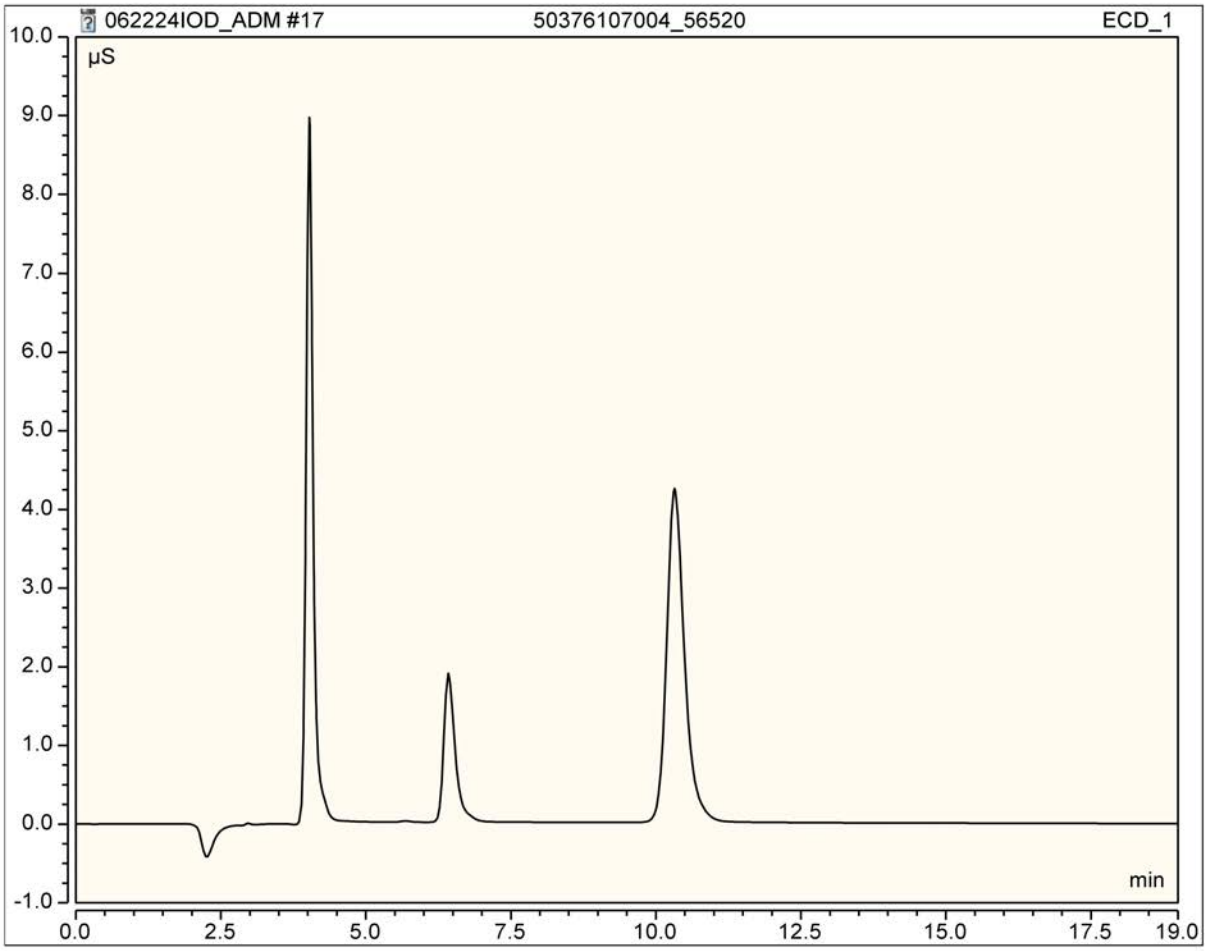
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.6846	0.142	0.248	BMB



50376107004_56520

Sample Name:	**50376107004_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

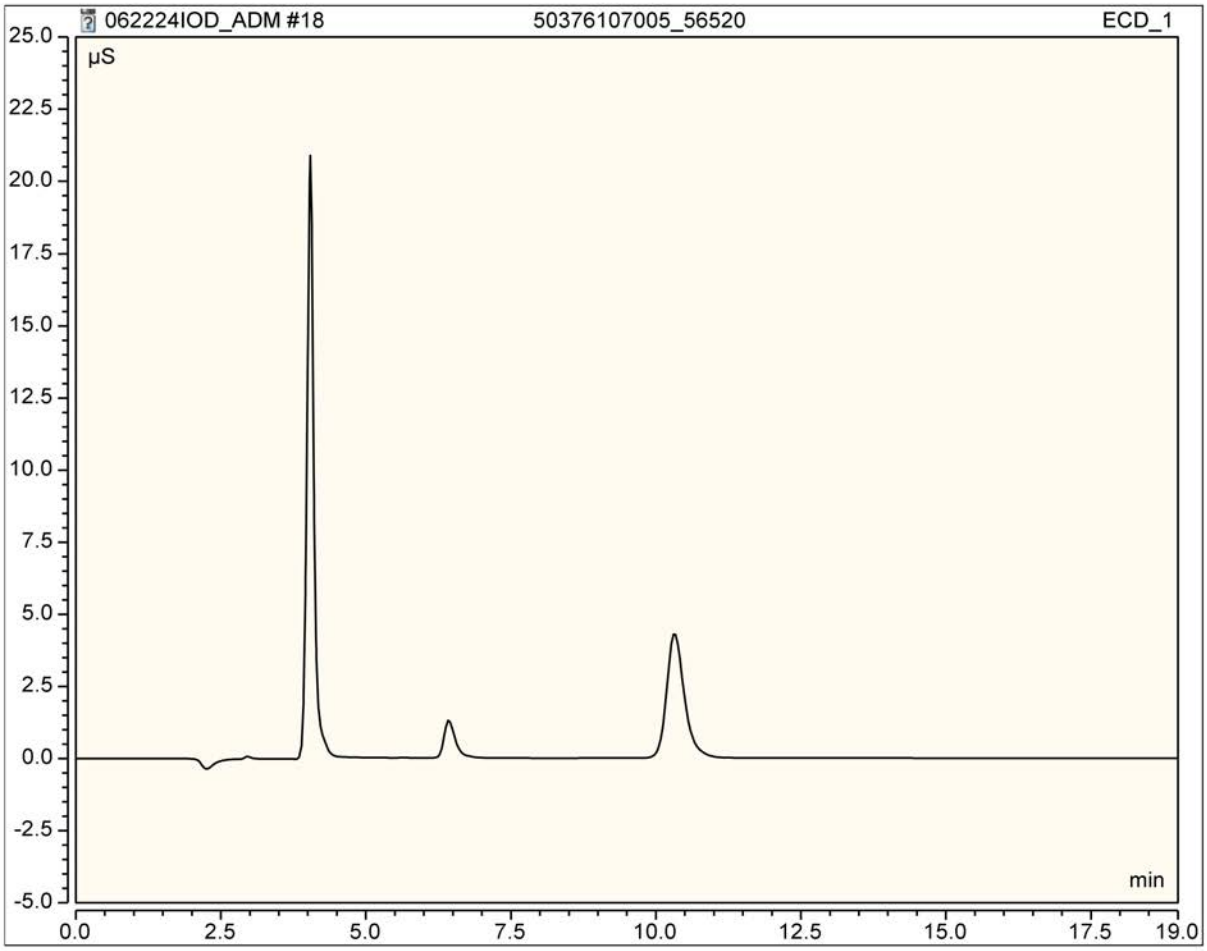
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107005_56520

Sample Name:	**50376107005_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

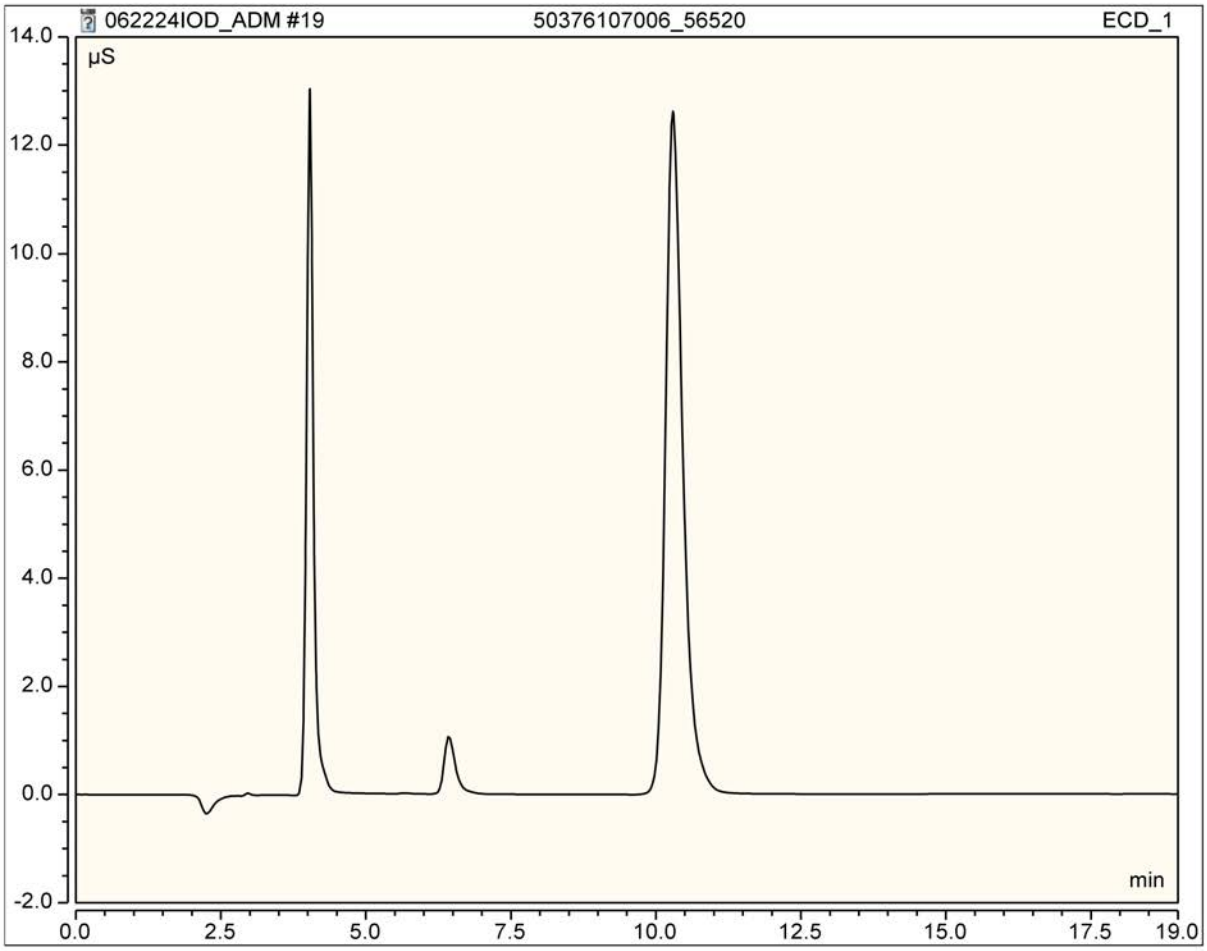
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107006_56520

Sample Name:	**50376107006_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 21:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

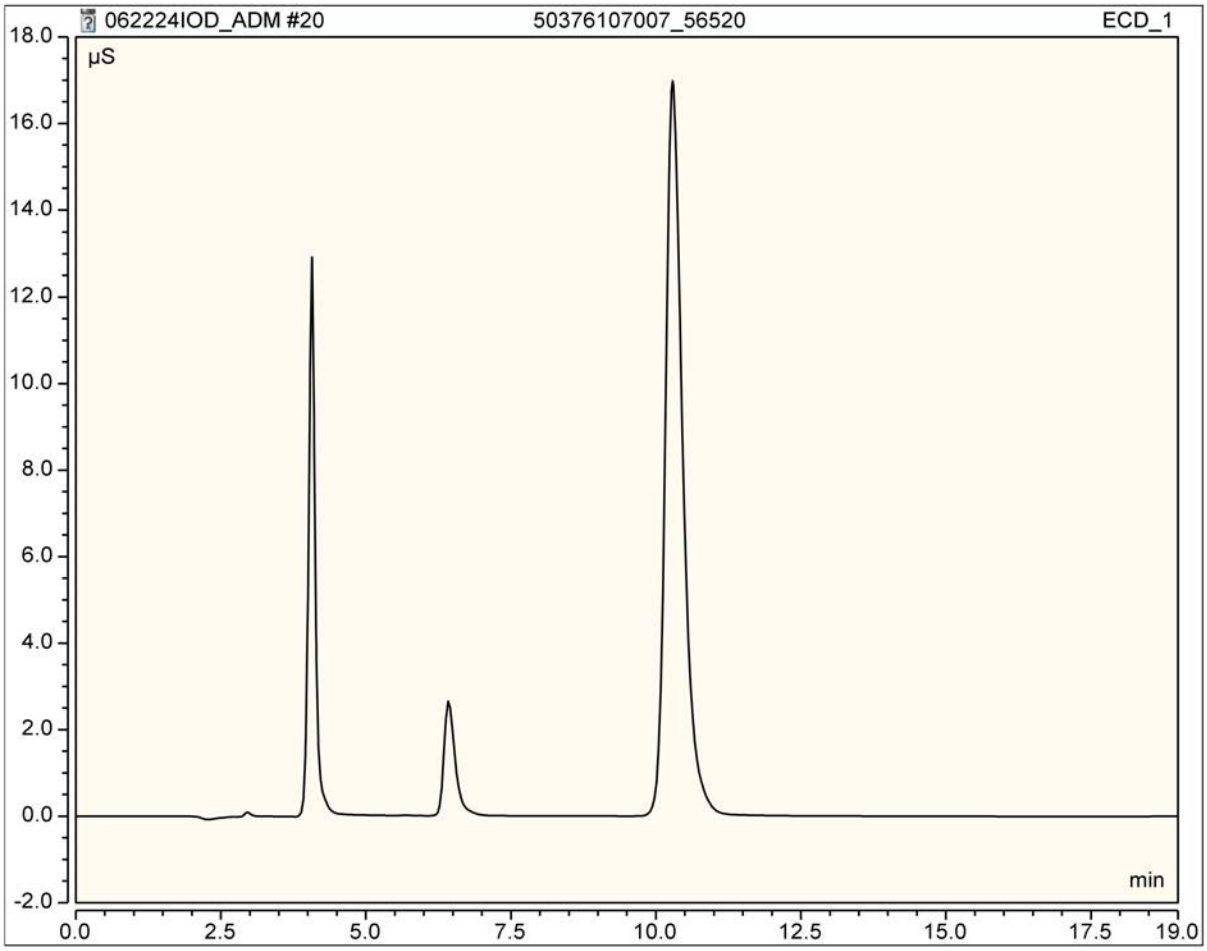
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107007_56520

Sample Name:	**50376107007_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:12**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

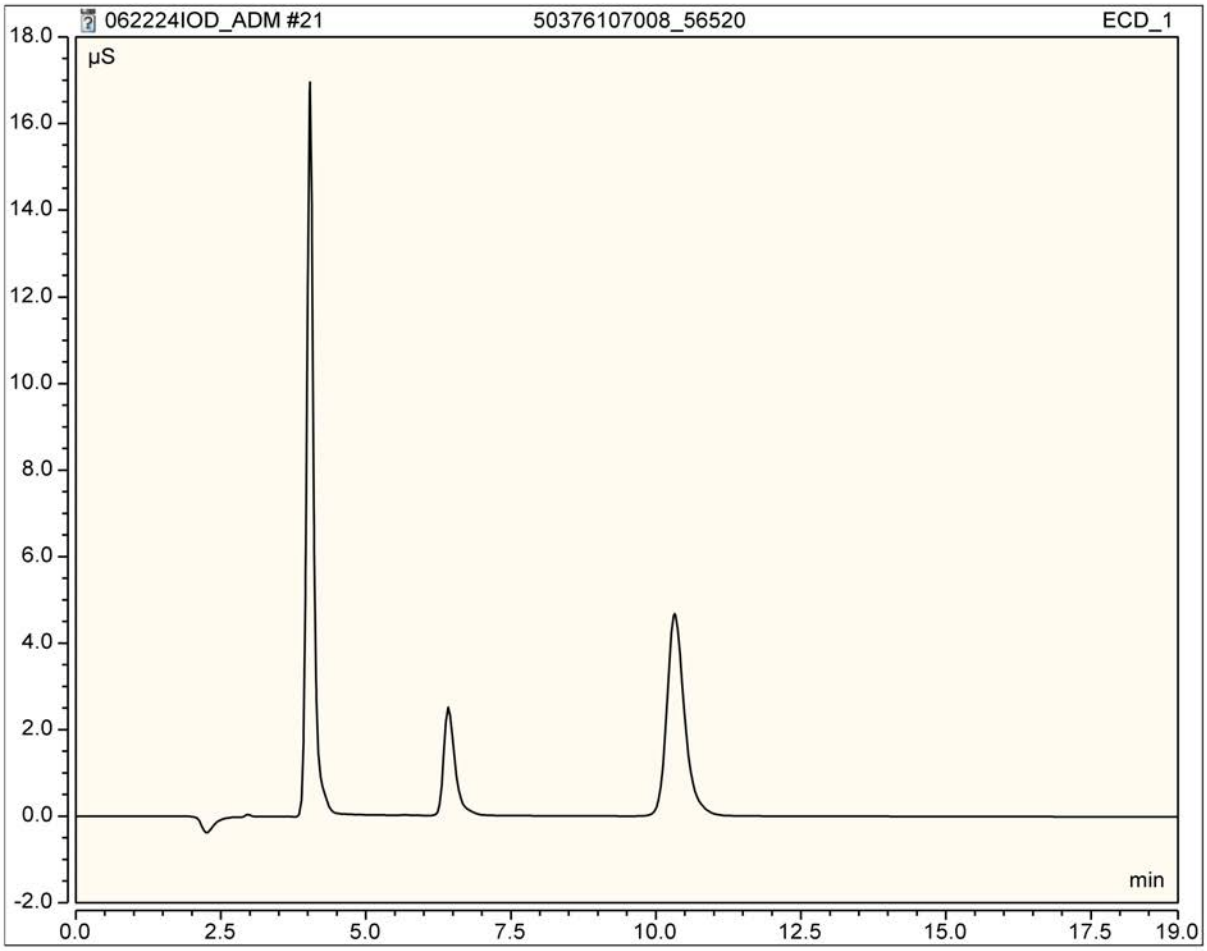
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107008_56520

Sample Name:	**50376107008_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*17*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

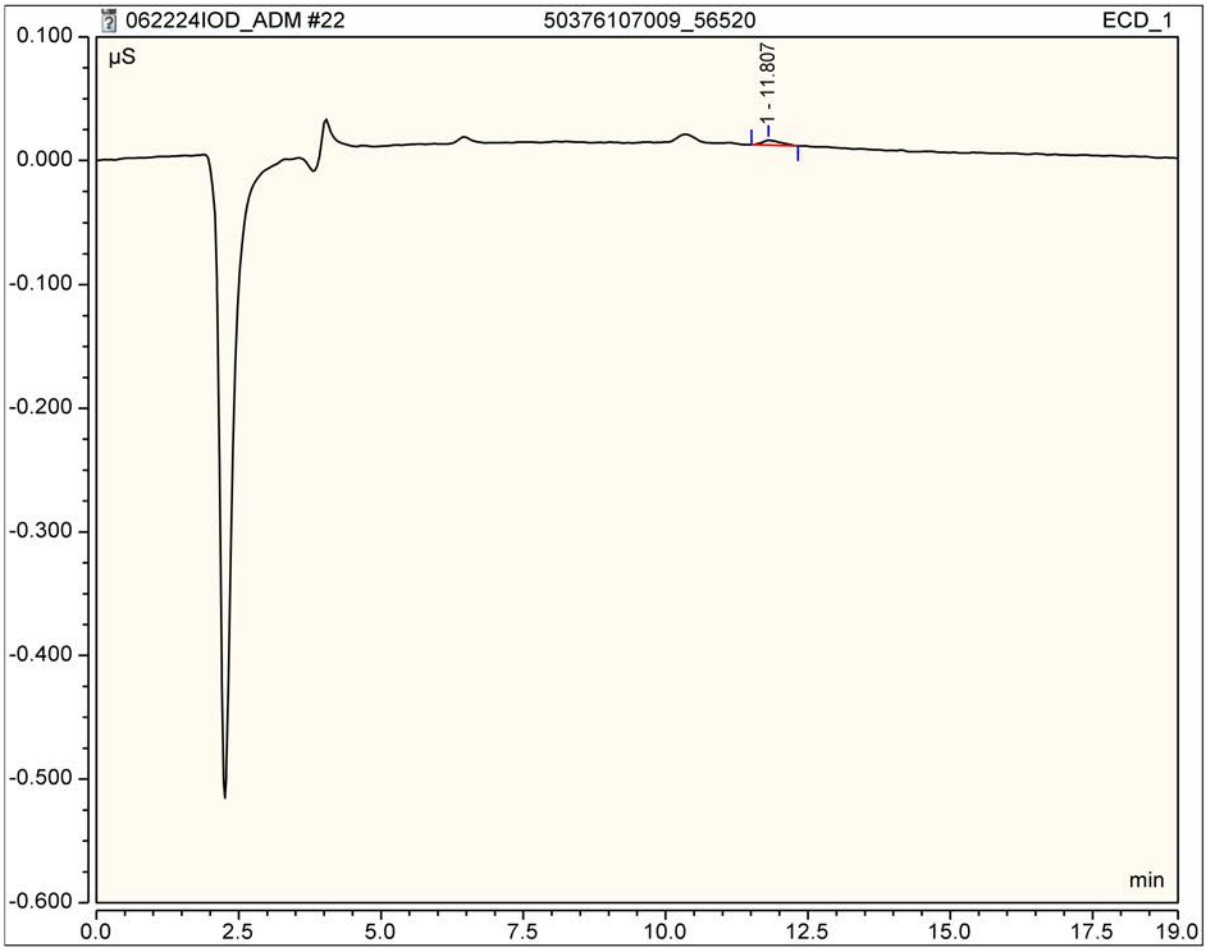
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107009_56520

Sample Name:	**50376107009_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*18*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 22:56**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

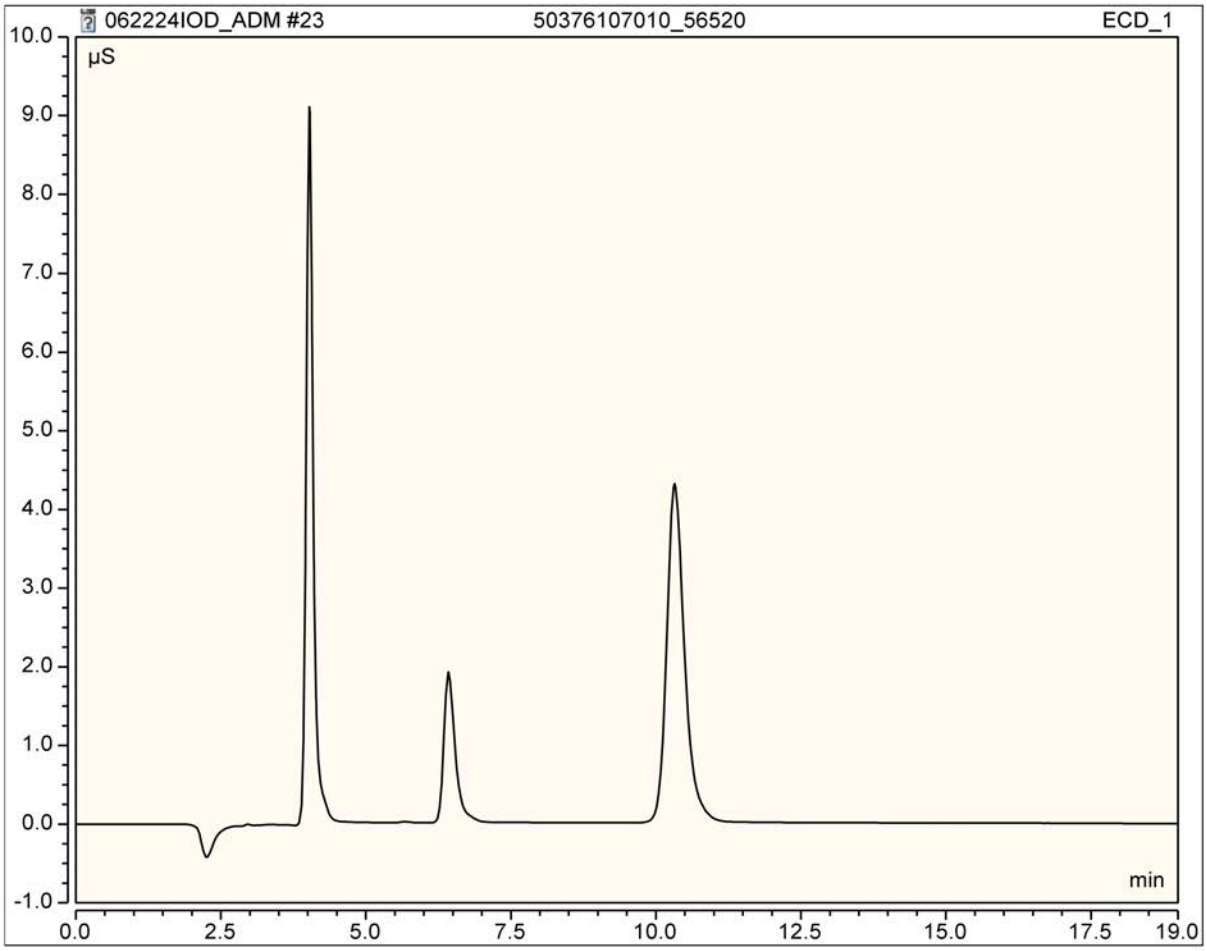
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376107010_56520

Sample Name:	**50376107010_56520**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*19*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

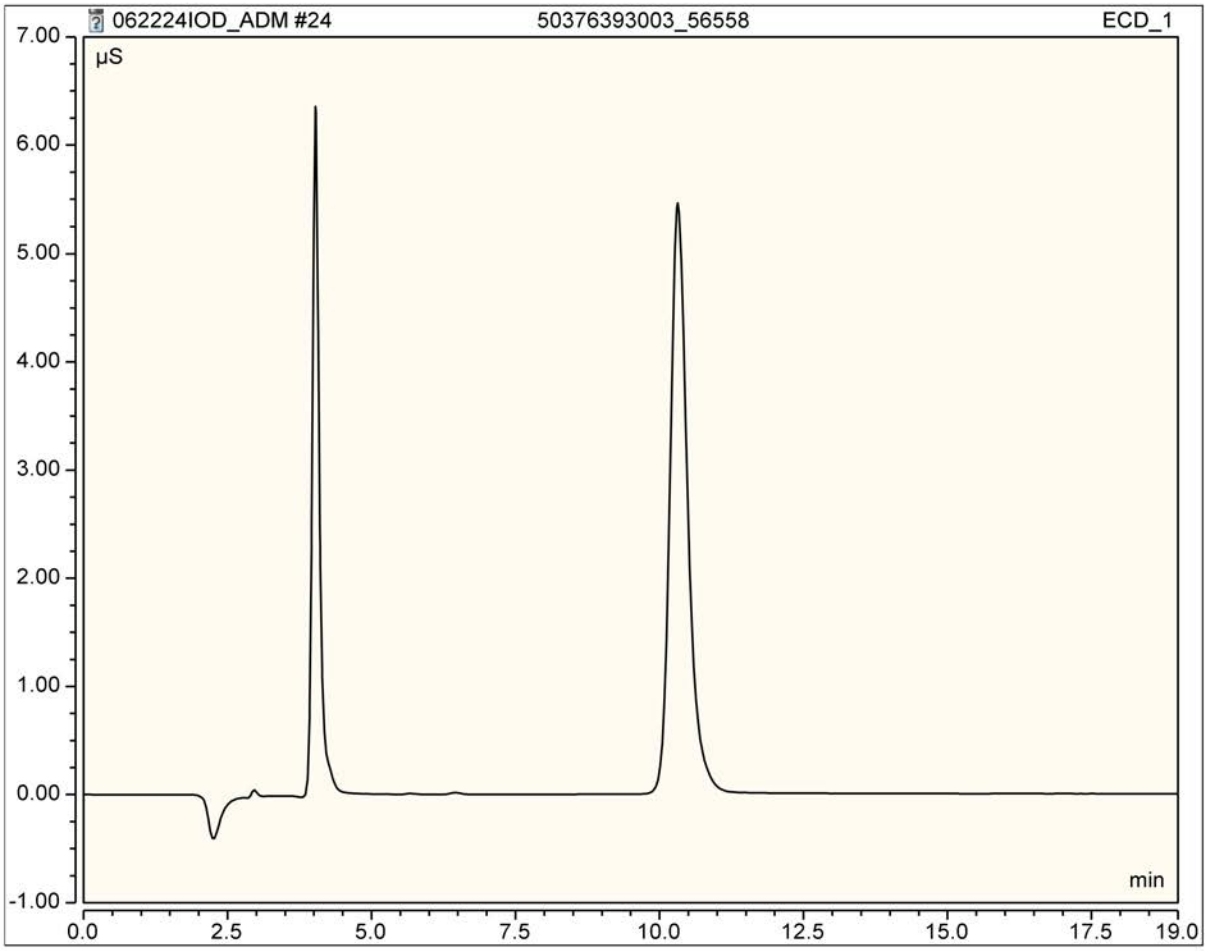
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393003_56558

Sample Name:	**50376393003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/22/2024 23:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

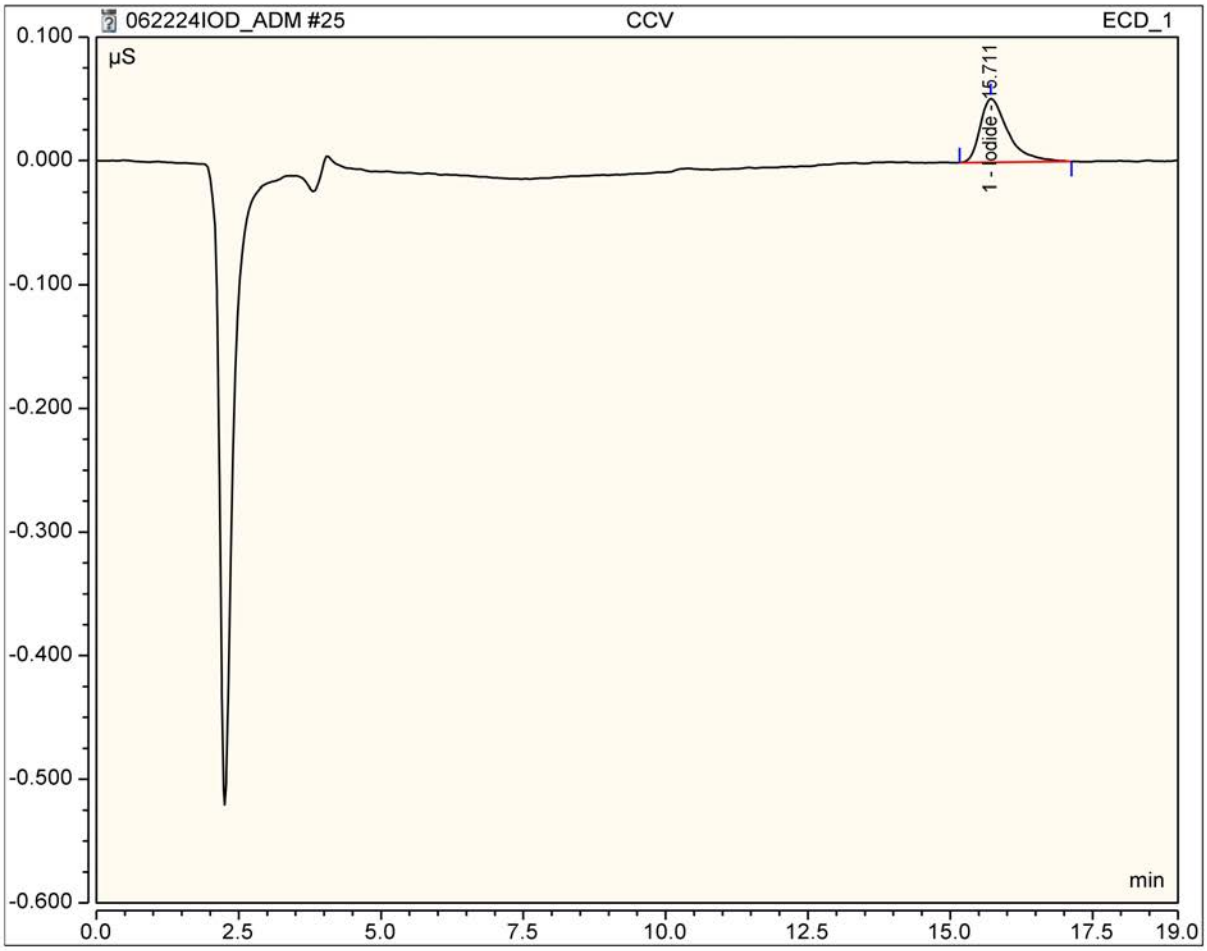
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

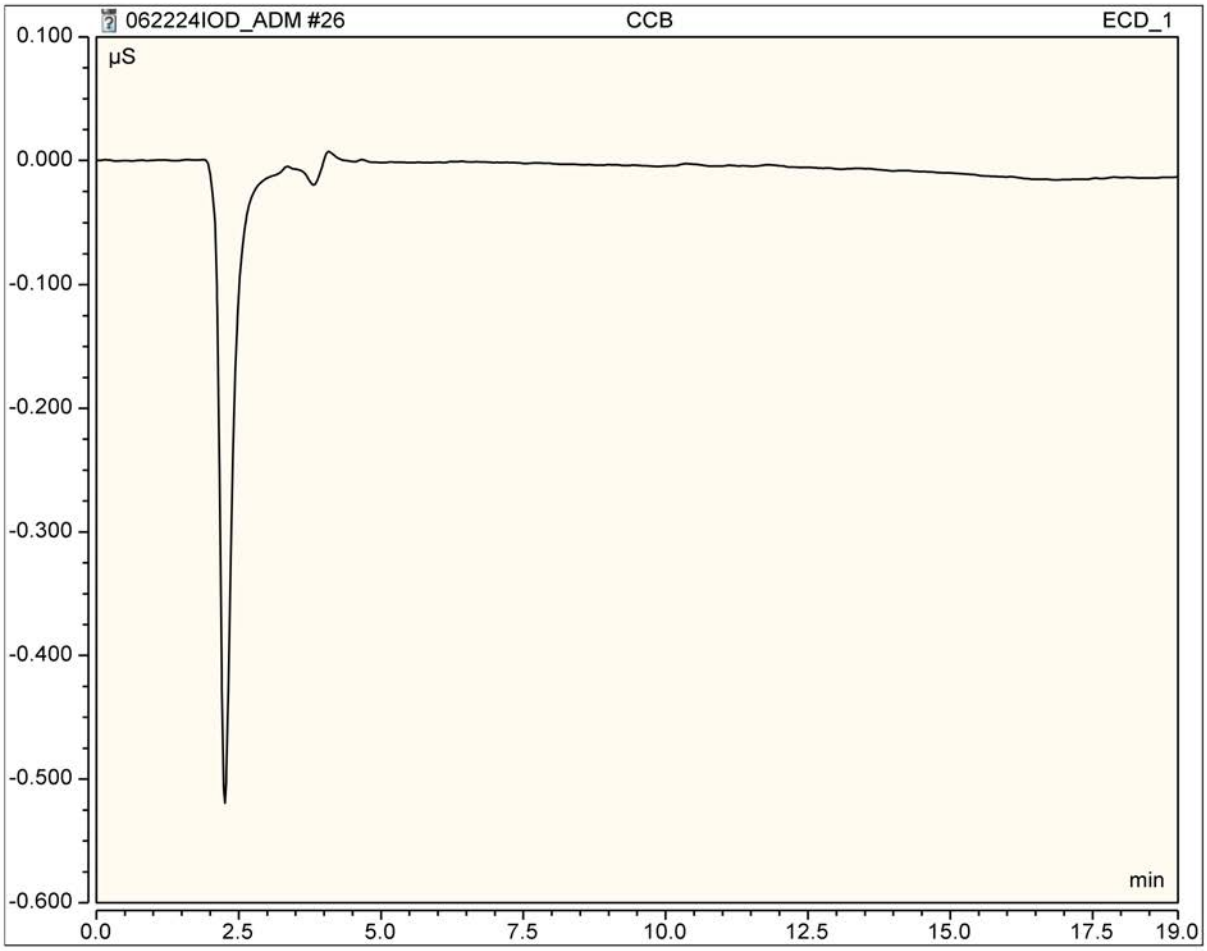
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0189	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

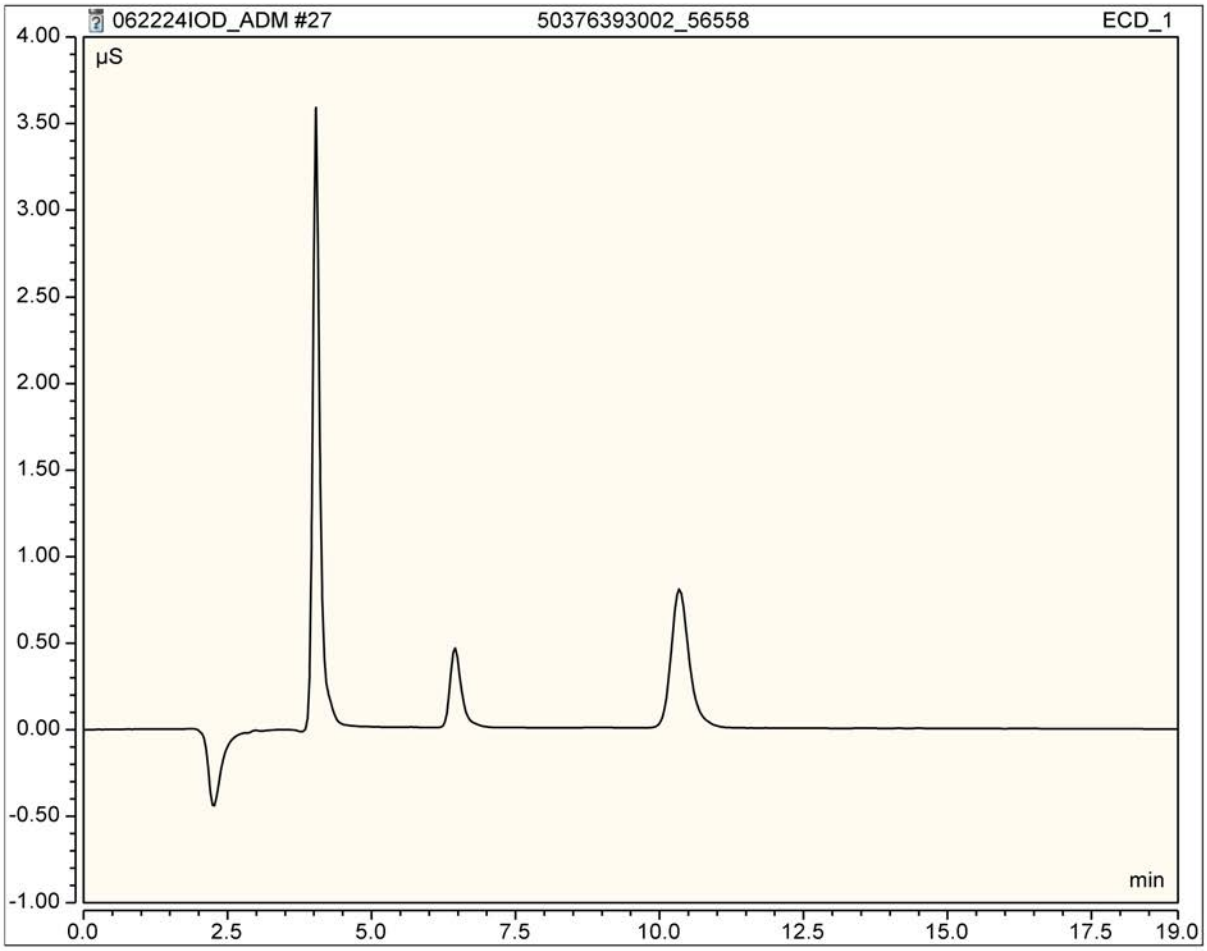
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393002_56558

Sample Name:	**50376393002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*23*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 00:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

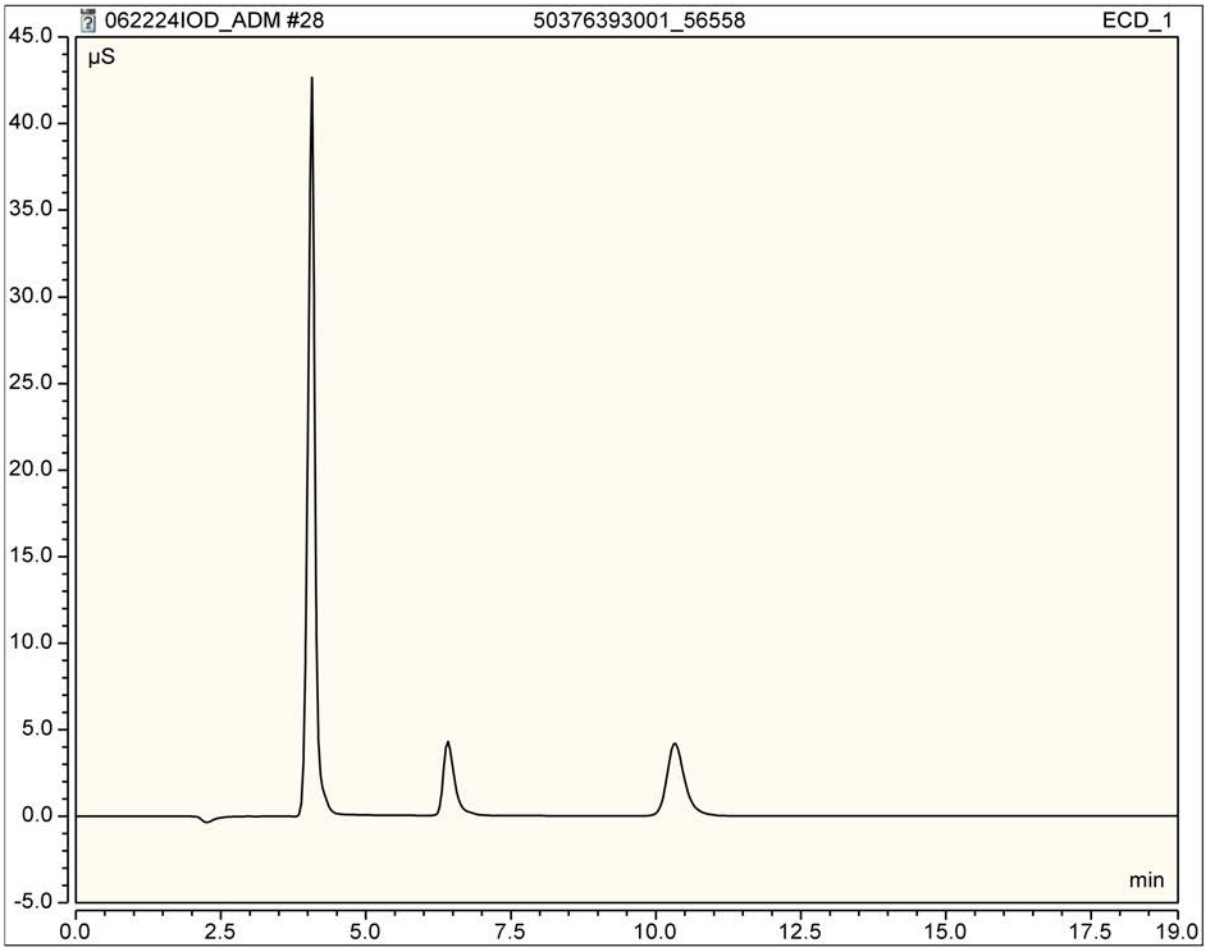
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376393001_56558

Sample Name:	**50376393001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*24*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:07**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

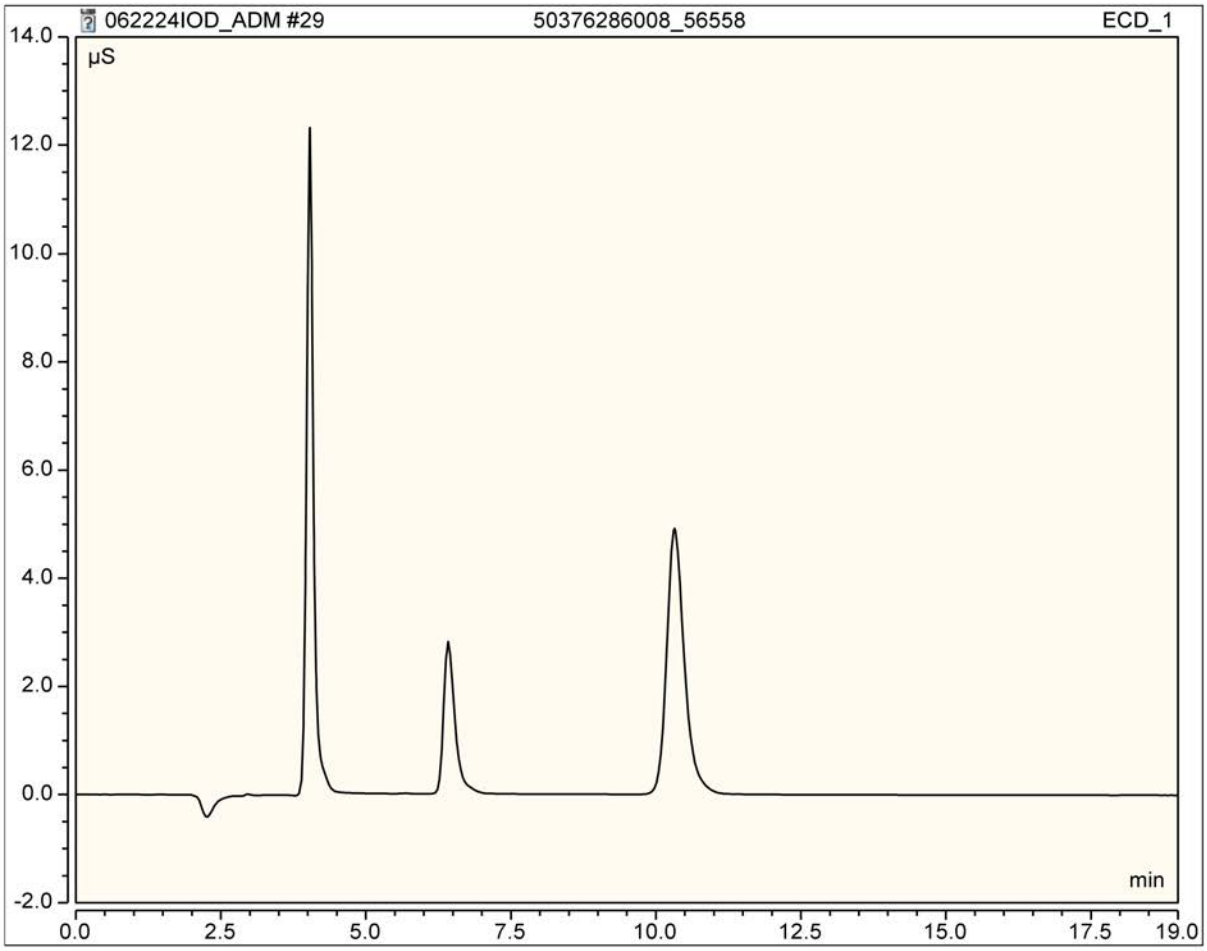
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286008_56558

Sample Name:	**50376286008_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

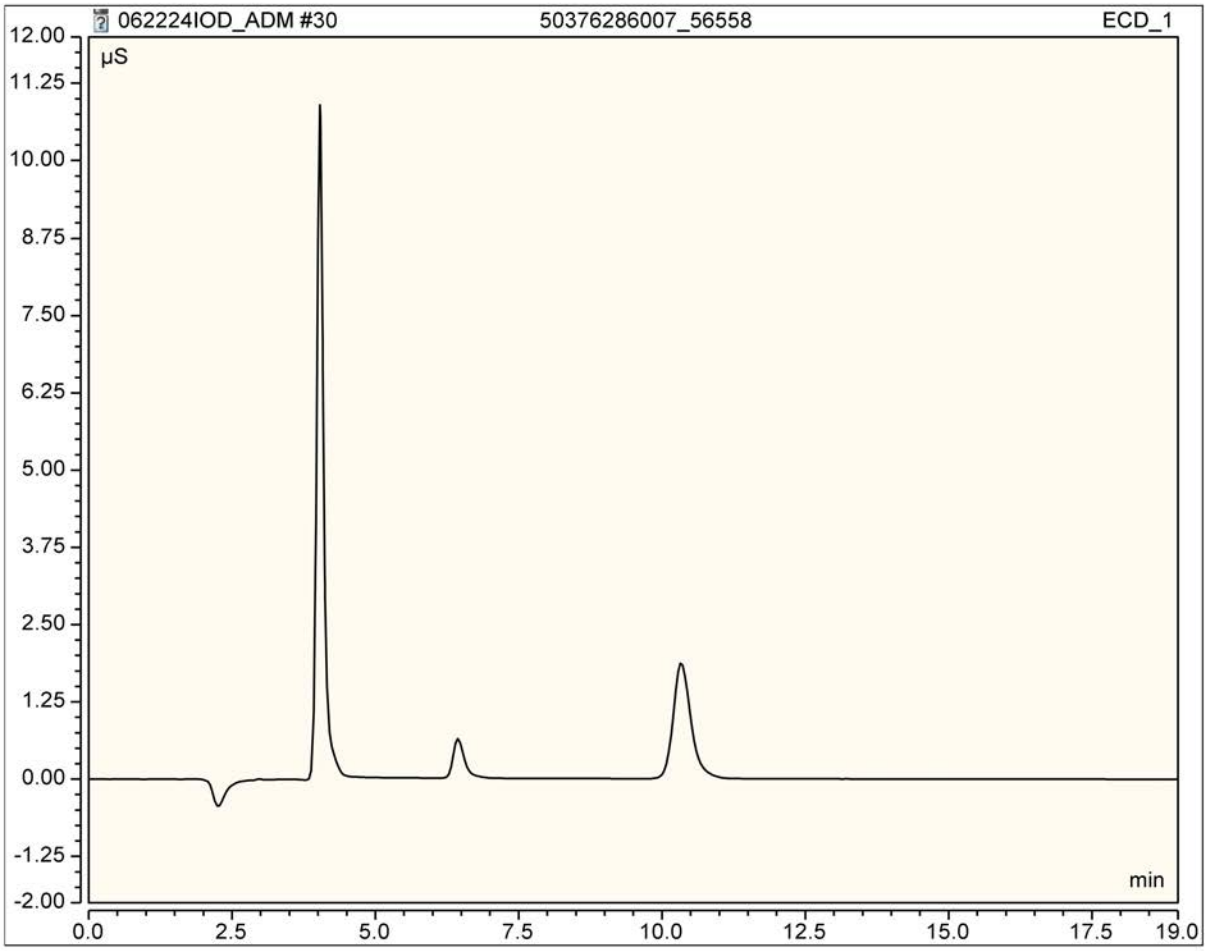
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286007_56558

Sample Name:	**50376286007_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*26*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 01:51**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

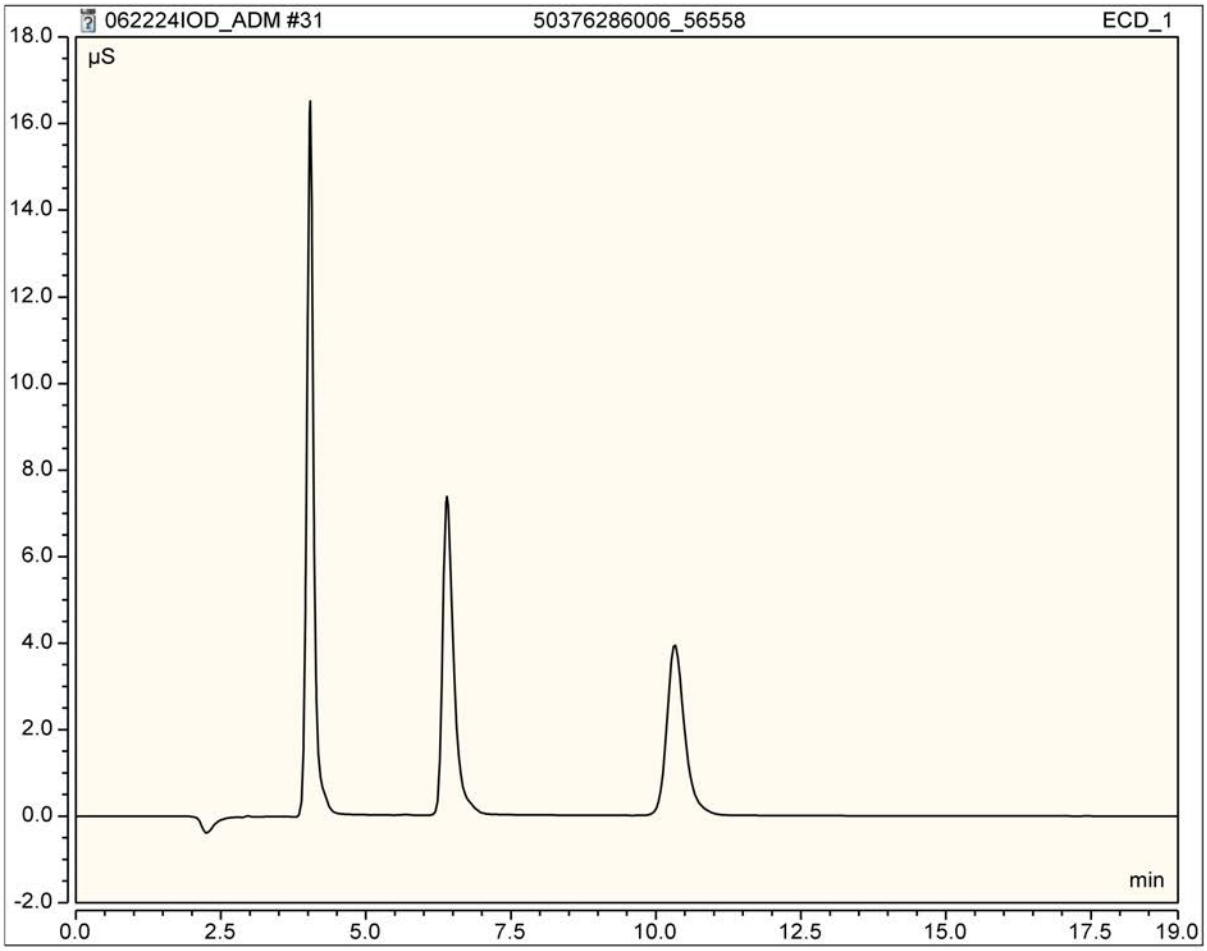
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286006_56558

Sample Name:	**50376286006_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*27*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

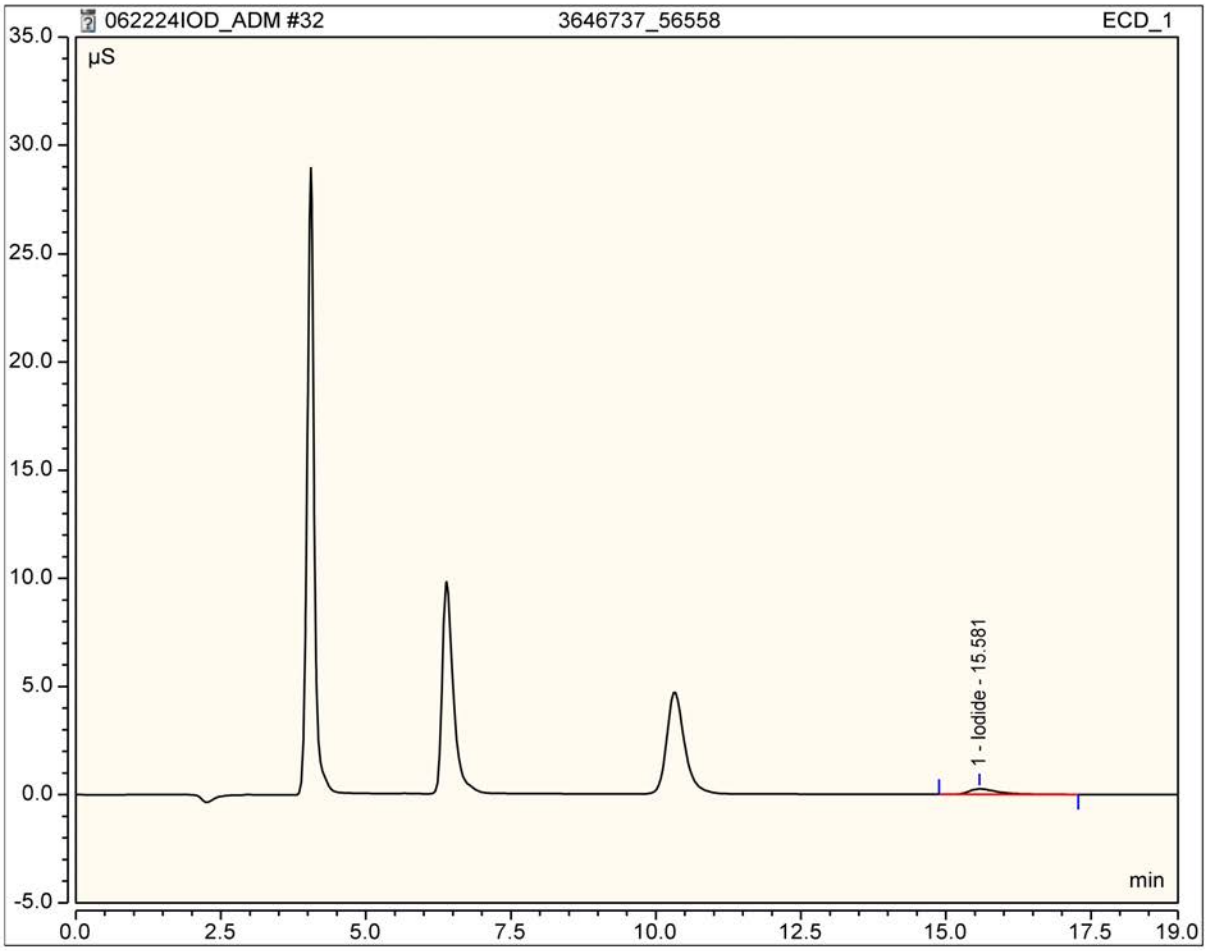
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3646737_56558
377680

Sample Name:	**3646737_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*28*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

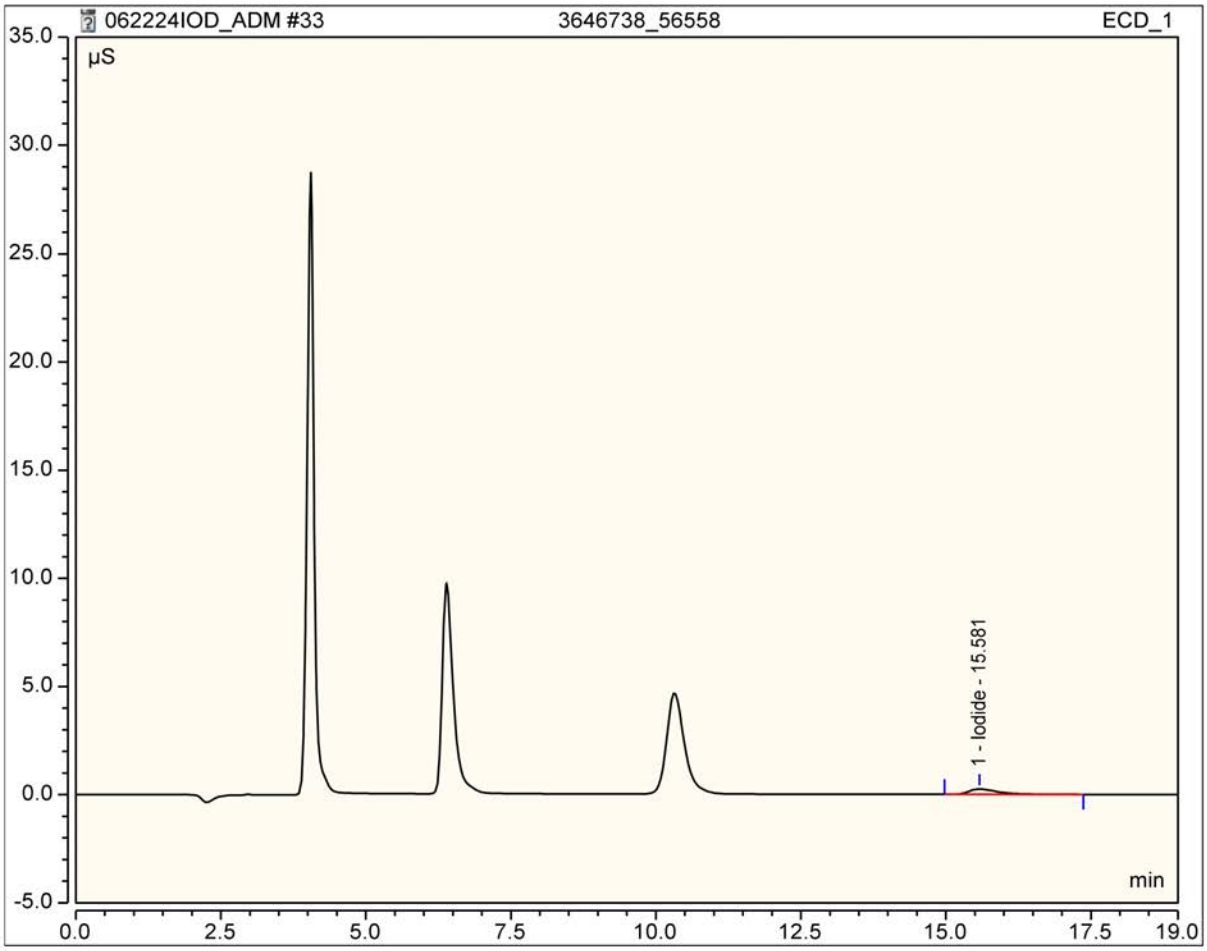
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7524	0.144	0.250	BMB



3646738_56558
377680

Sample Name:	**3646738_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*29*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 02:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

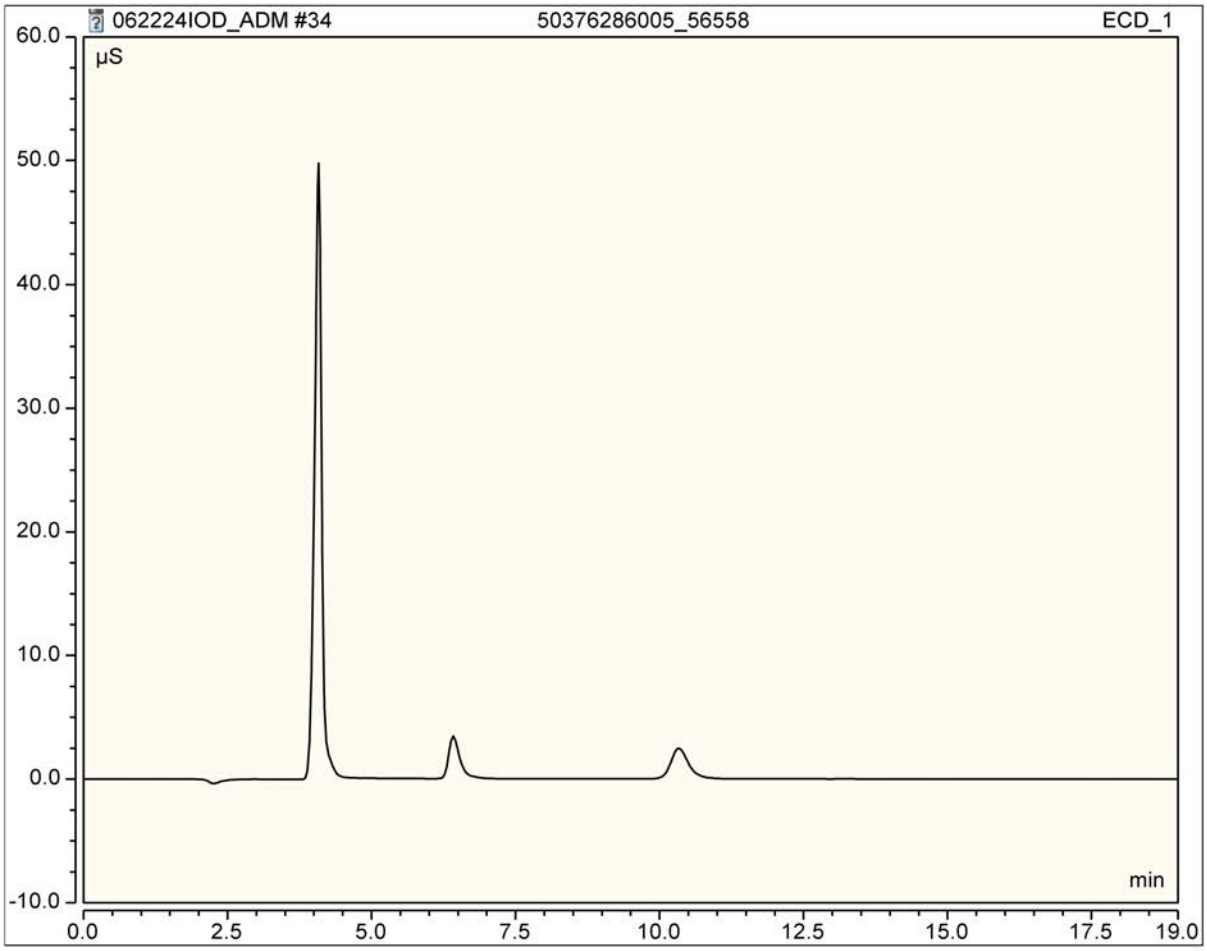
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.58	**Iodide**	4.7127	0.143	0.249	BMB



50376286005_56558

Sample Name:	**50376286005_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*30*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

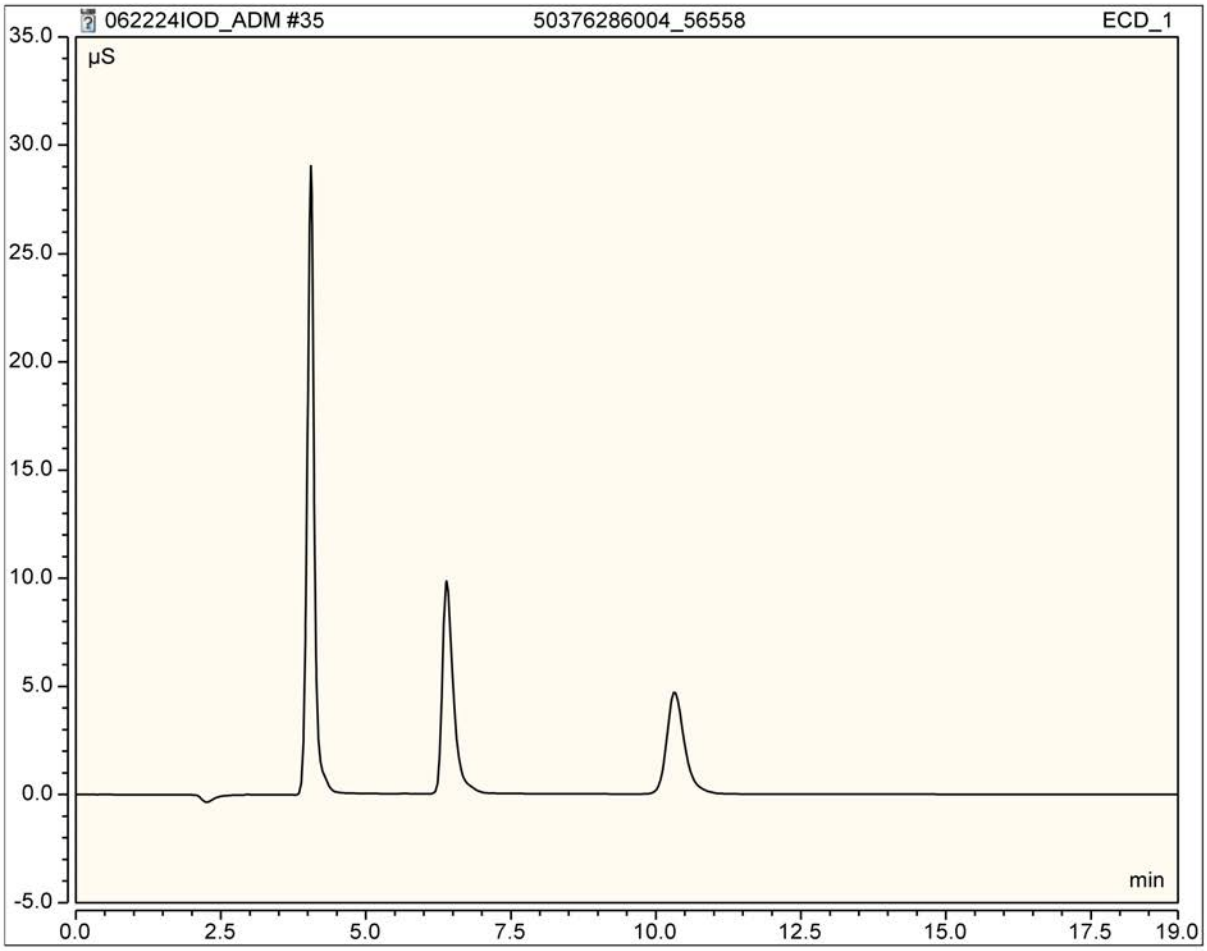
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286004_56558

Sample Name:	**50376286004_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*31*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 03:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

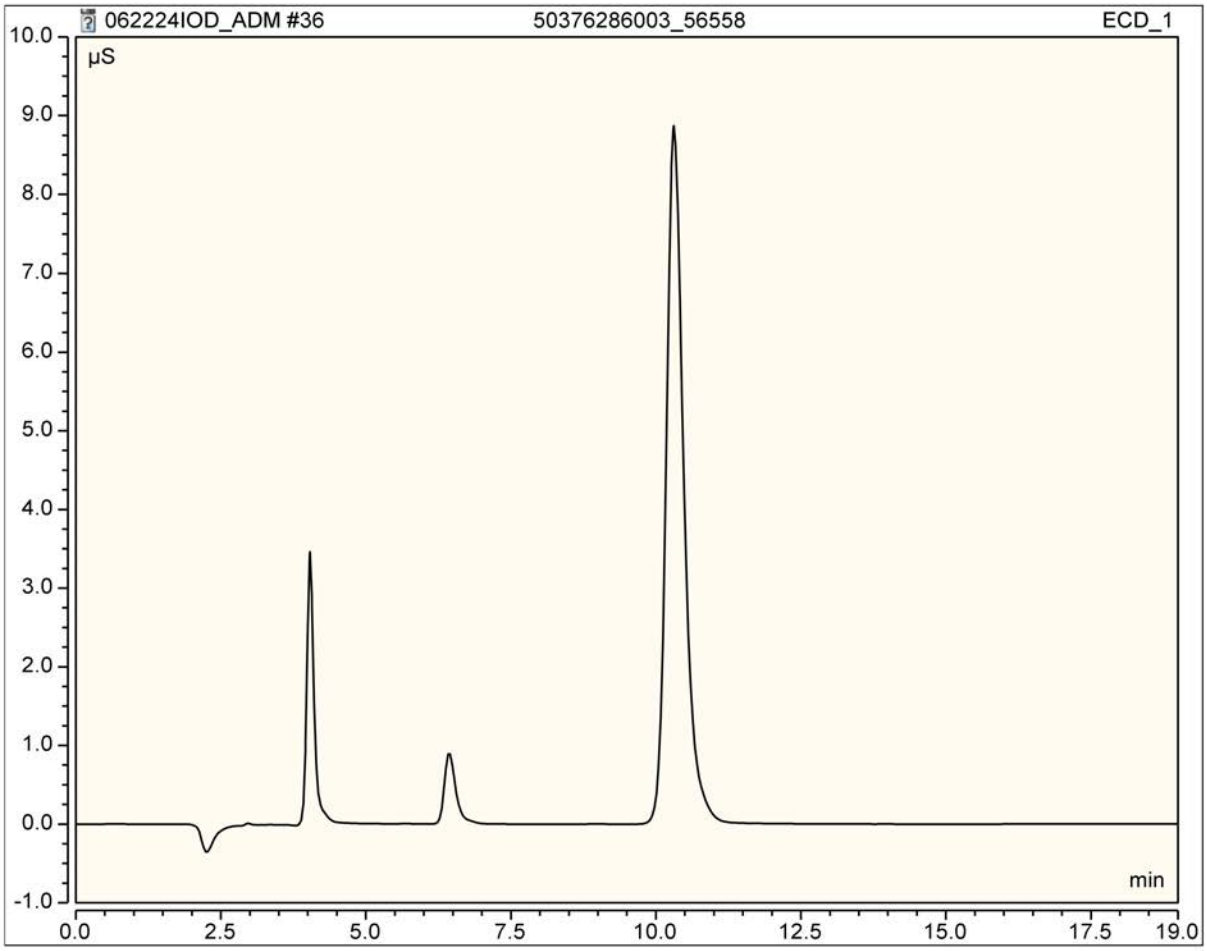
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286003_56558

Sample Name:	**50376286003_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*32*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

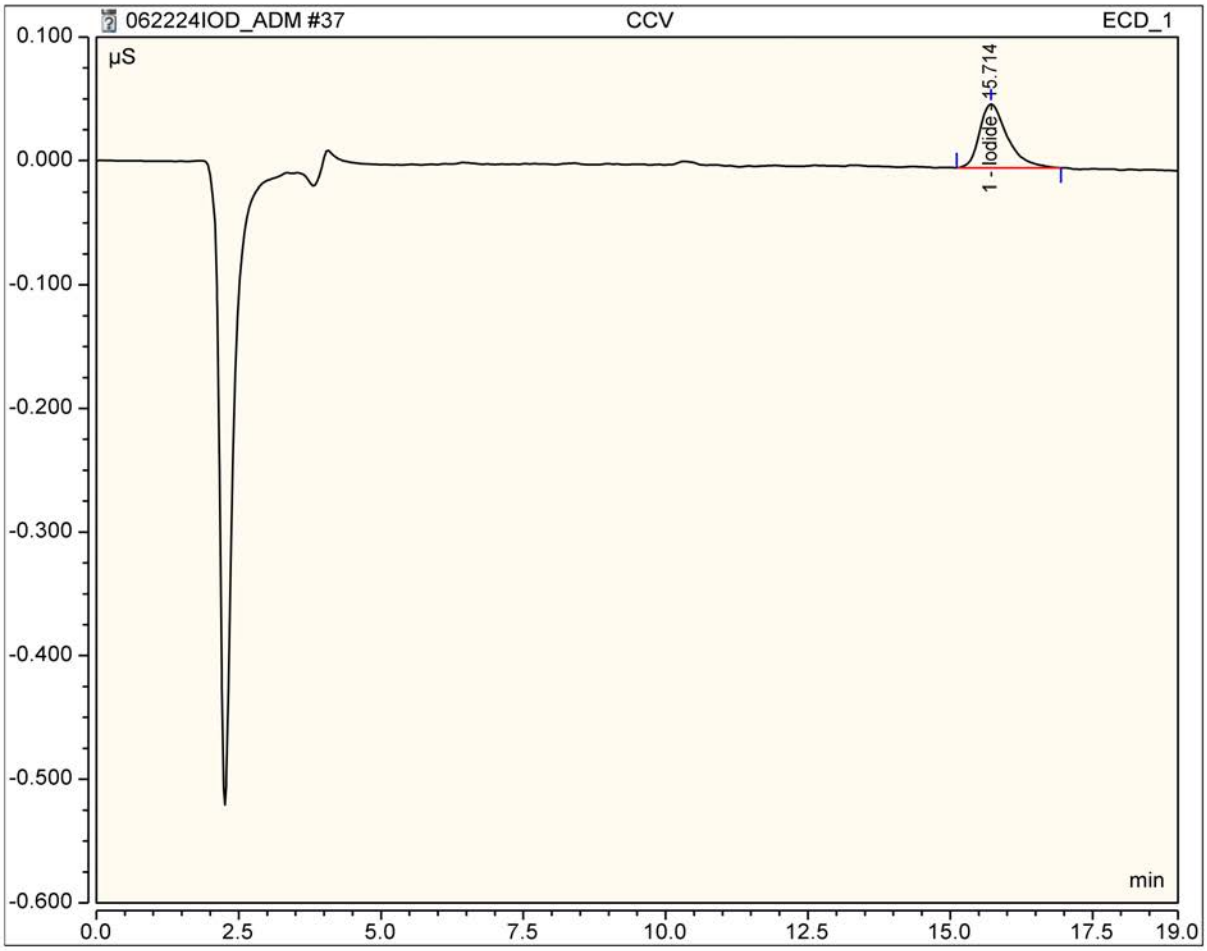
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

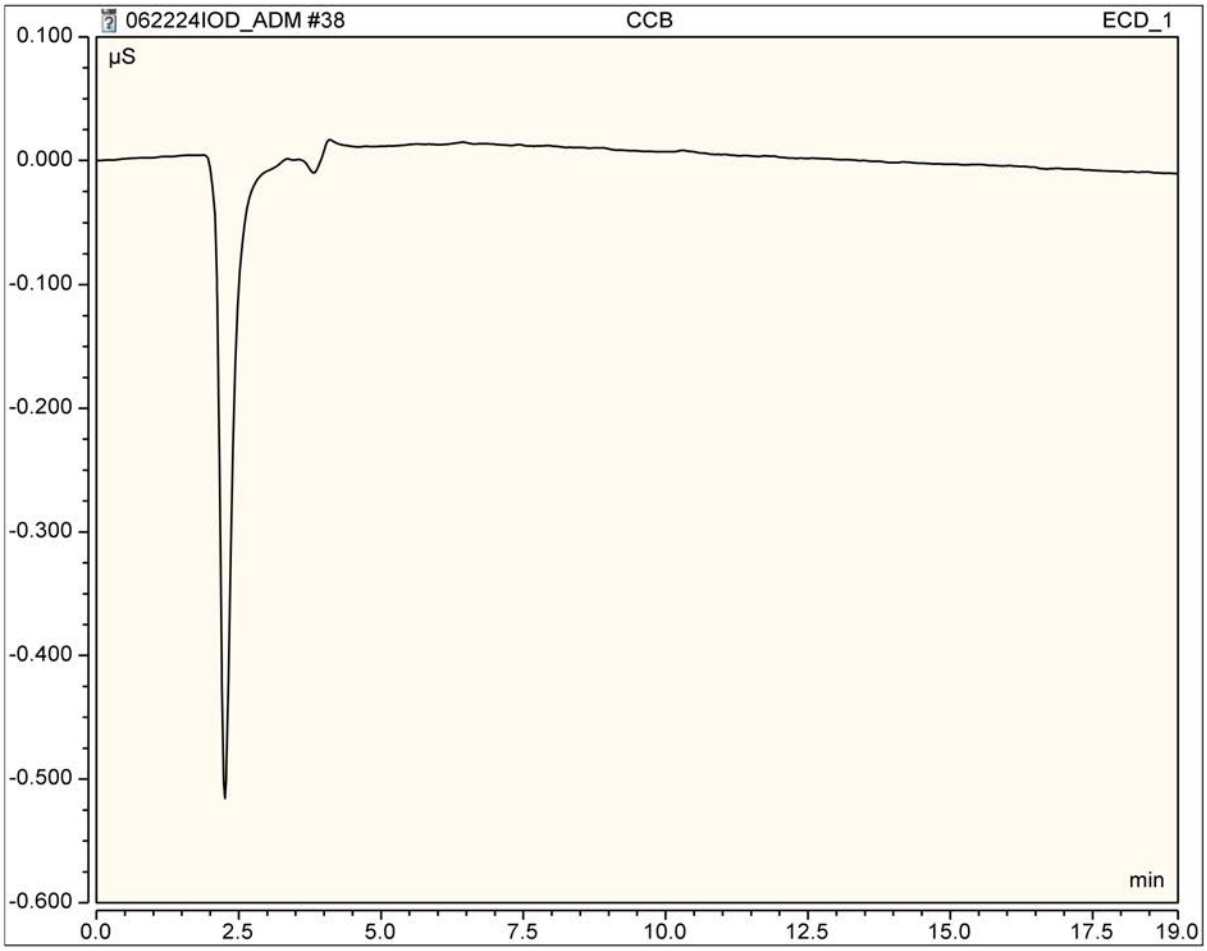
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.71	**Iodide**	1.0164	0.029	0.052	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 04:46**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

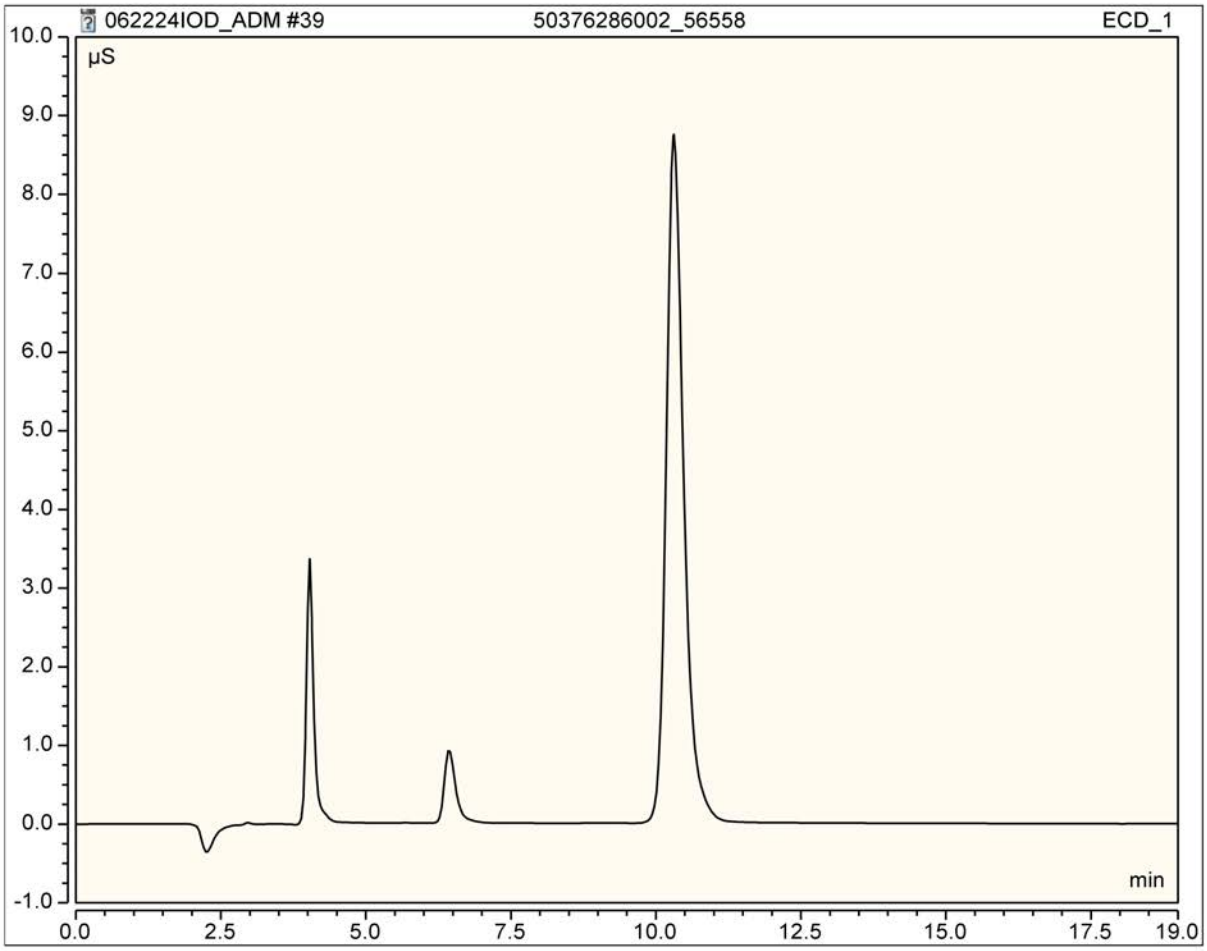
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286002_56558

Sample Name:	**50376286002_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

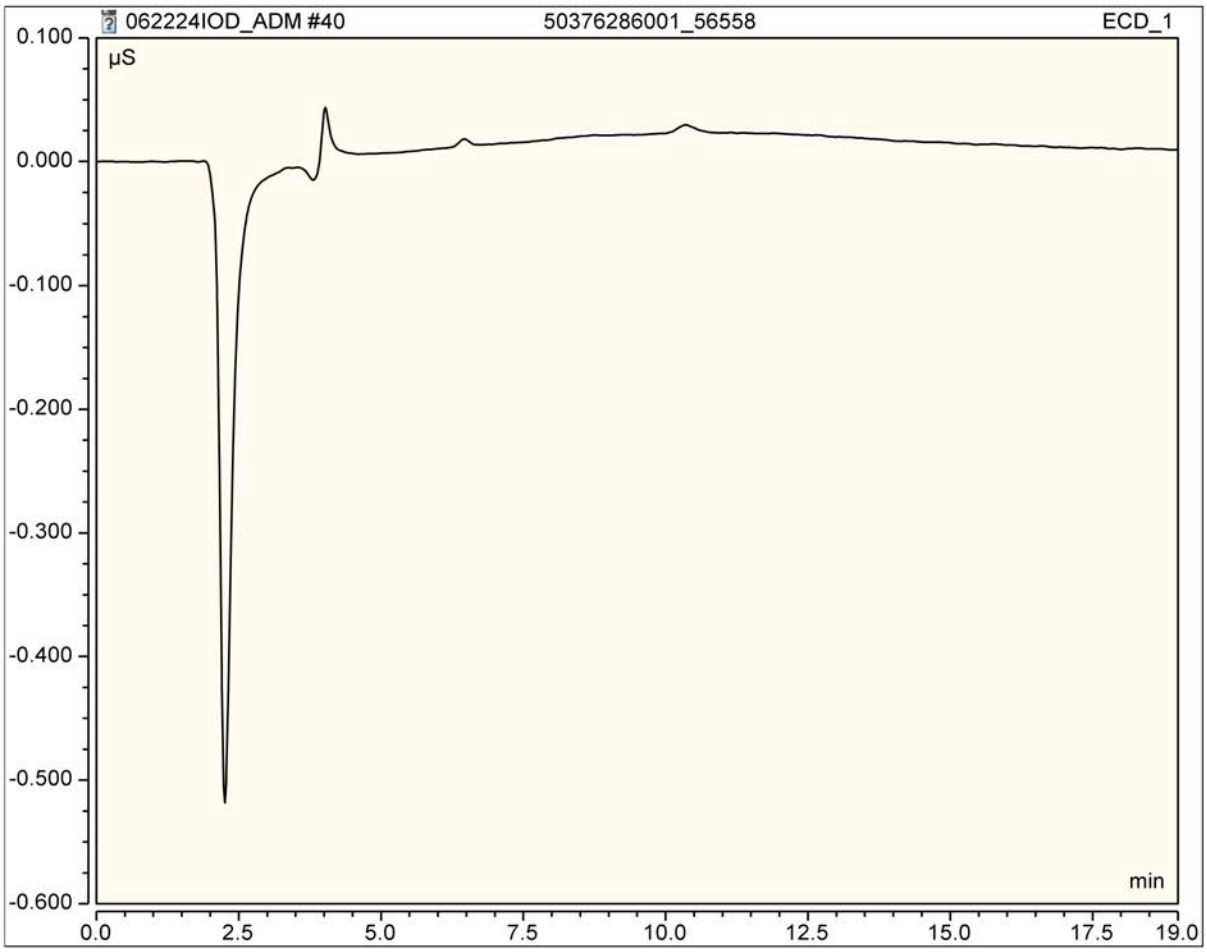
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376286001_56558

Sample Name:	**50376286001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

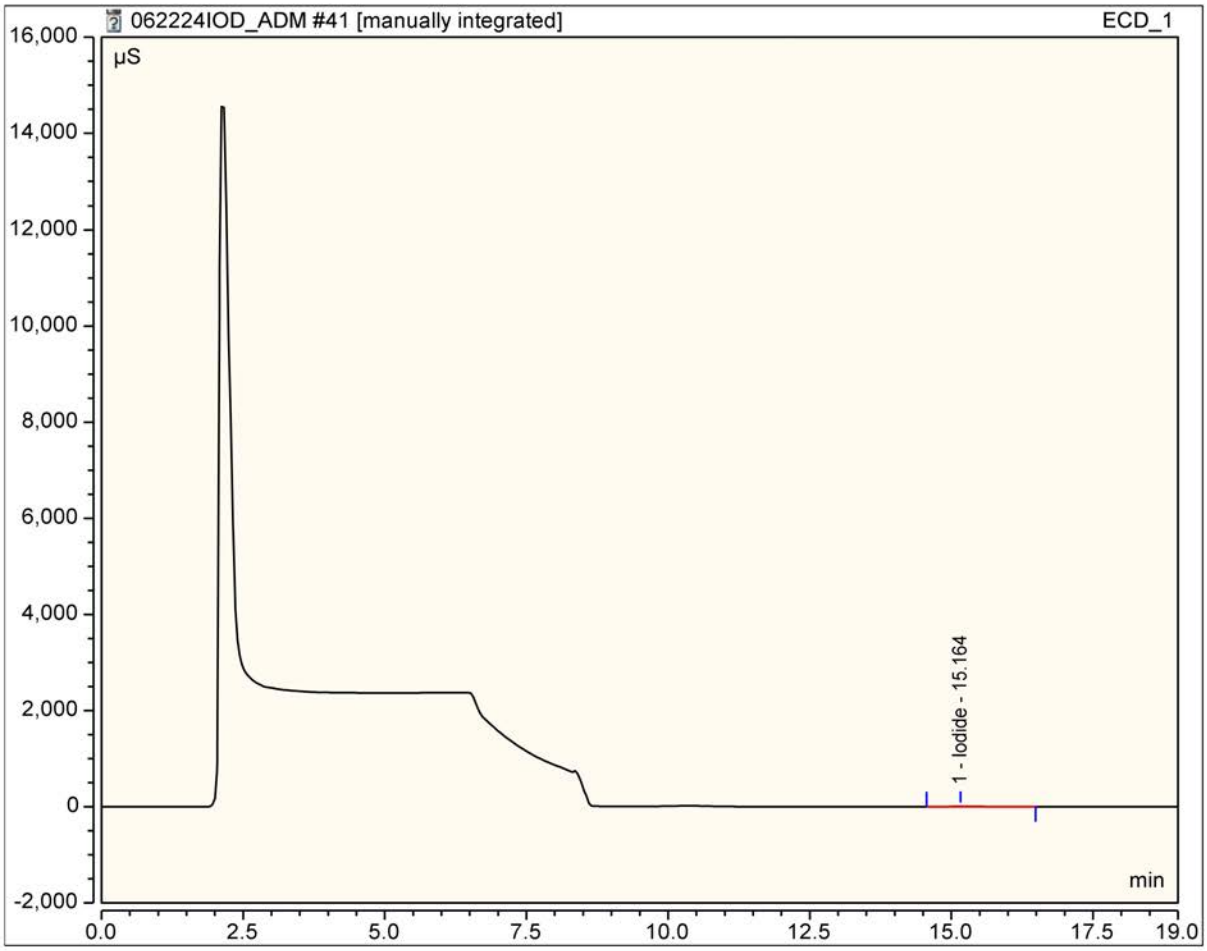
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376388001_56558

Sample Name:	**50376388001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 05:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

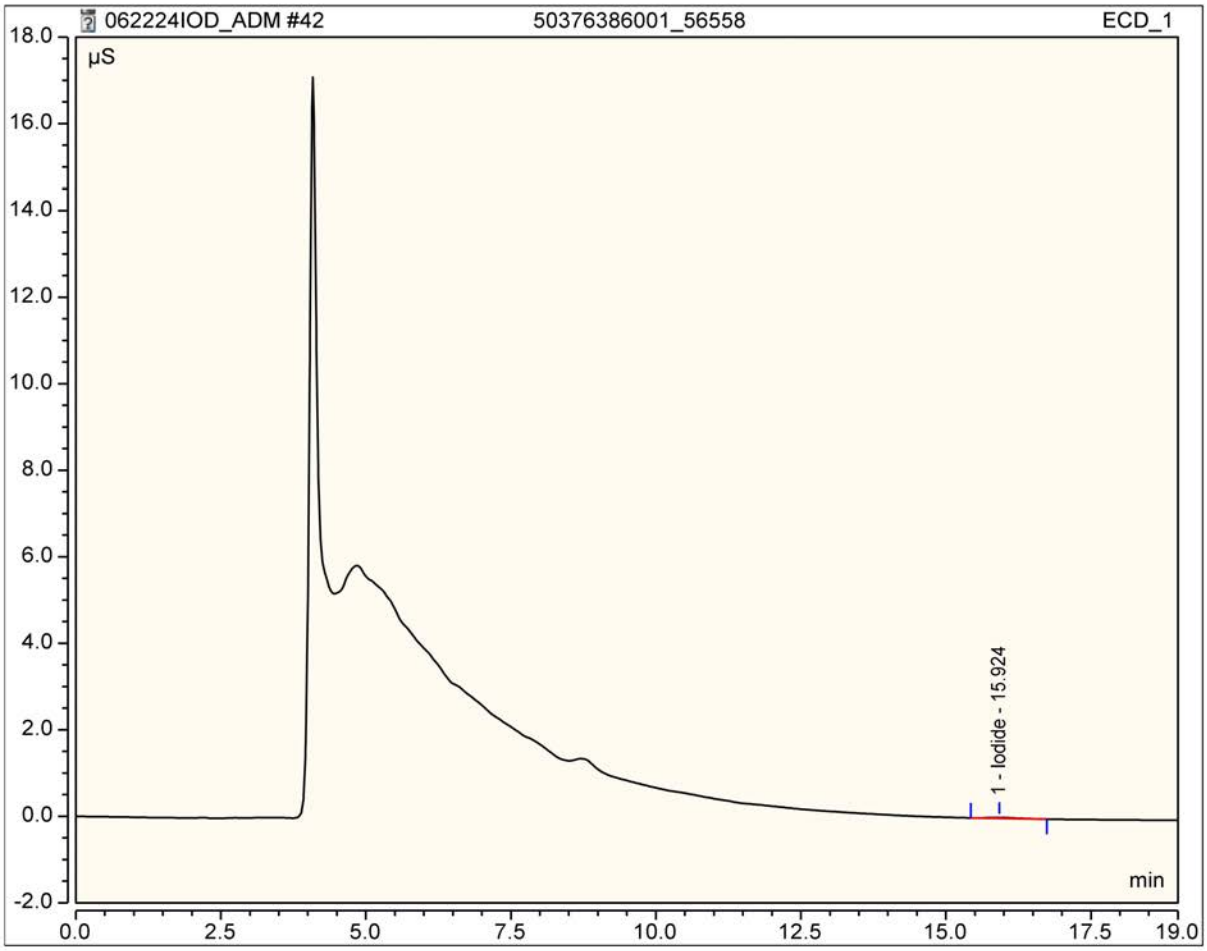
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.16	**Iodide**	98.4651	3.029	4.154	BMB*



50376386001_56558

Sample Name:	**50376386001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*38*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:14**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

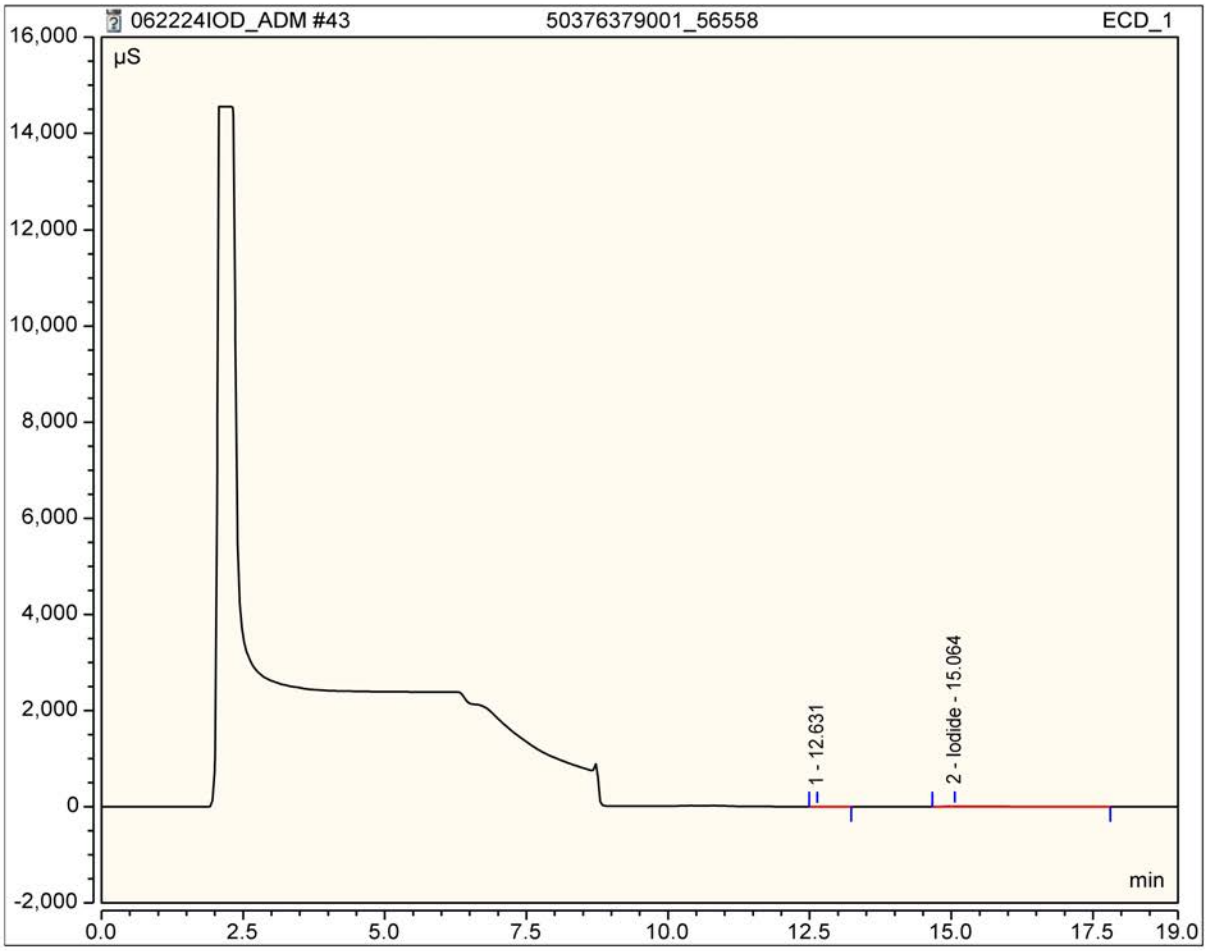
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.92	**Iodide**	0.4041	0.010	0.019	BMB



50376379001_56558

Sample Name:	**50376379001_56558**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*39*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

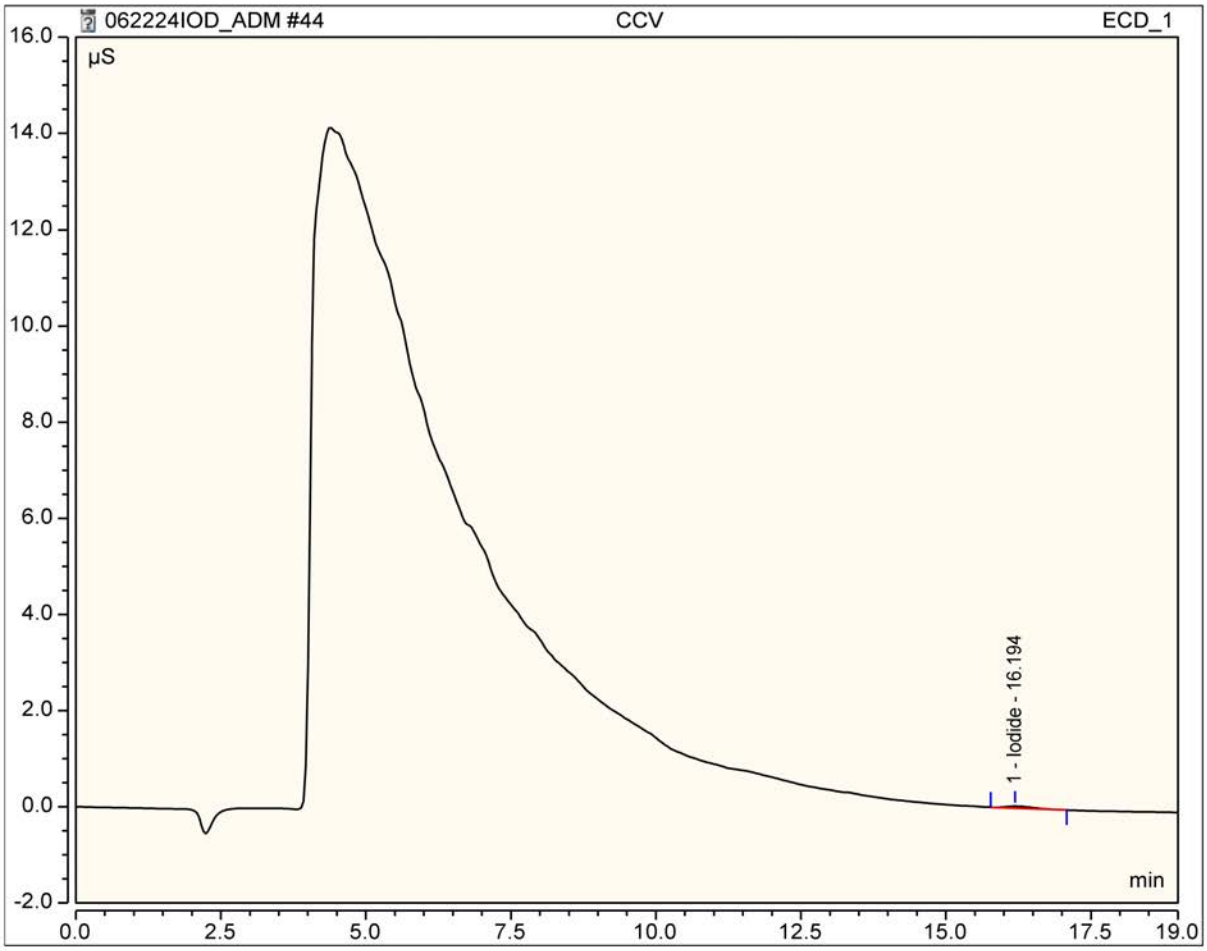
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.06	**Iodide**	229.6729	7.068	7.952	BMB



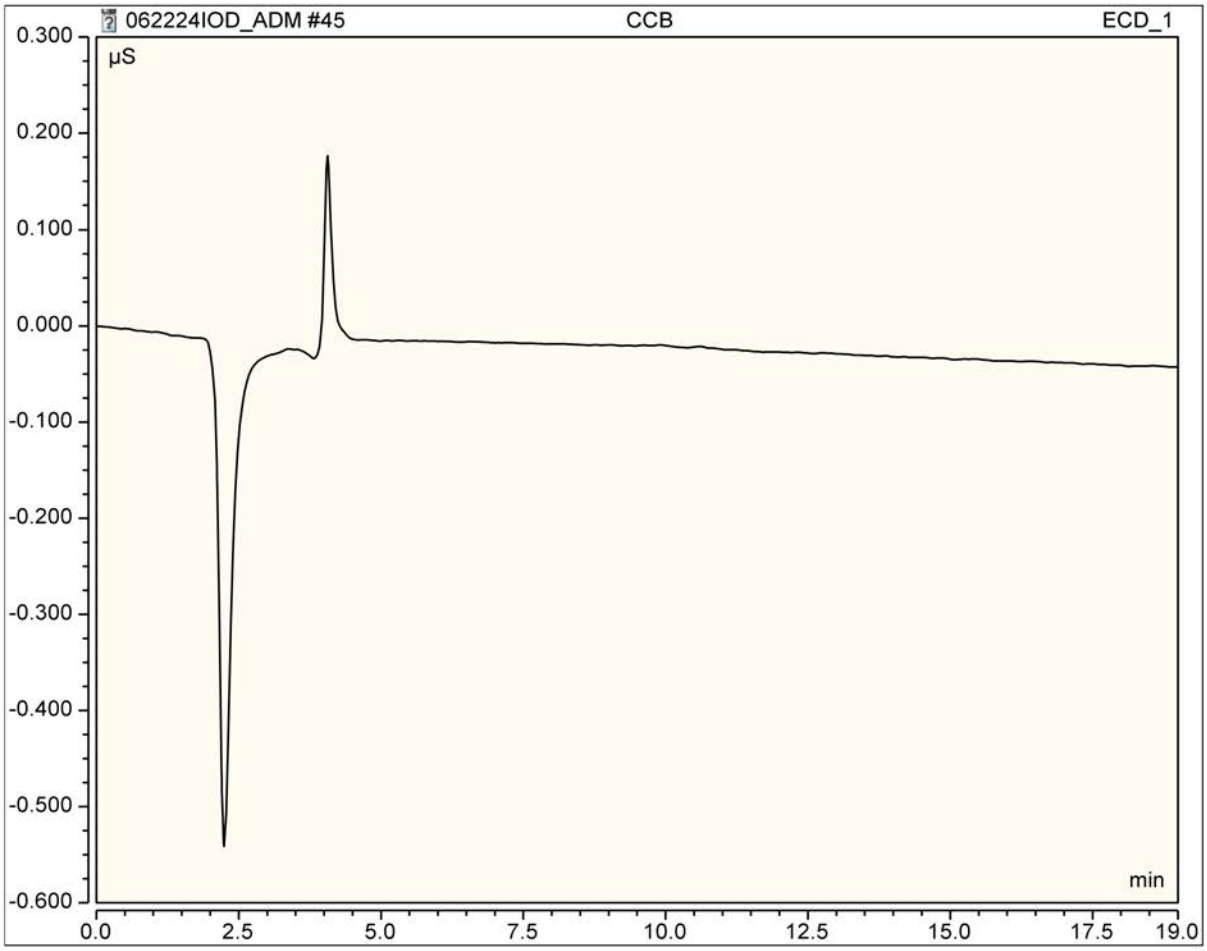
CCV
385241

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*40*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 06:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.19	**Iodide**	0.7674	0.022	0.040	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*41*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/22/24 11:21**
Control Program:	*IODIDE*	*Eluent Stock:*	**382276**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/23/2024 07:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type